LITHONIA LIGHTING®



PRODUCT SELECTION GUIDE EDITION 9





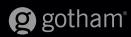












PEERLESS



ANTIQUE Street Lamps

(HYDREL)

Serving your lighting needs is what we're all about . . . count on us to deliver.

As the **recognized leader** in the lighting industry, it is our mission to deliver consistently superior value to our customers and their clients. This commitment permeates everything we do, driving us to continuously develop and improve our products and the processes to fulfill your need for quality lighting solutions.

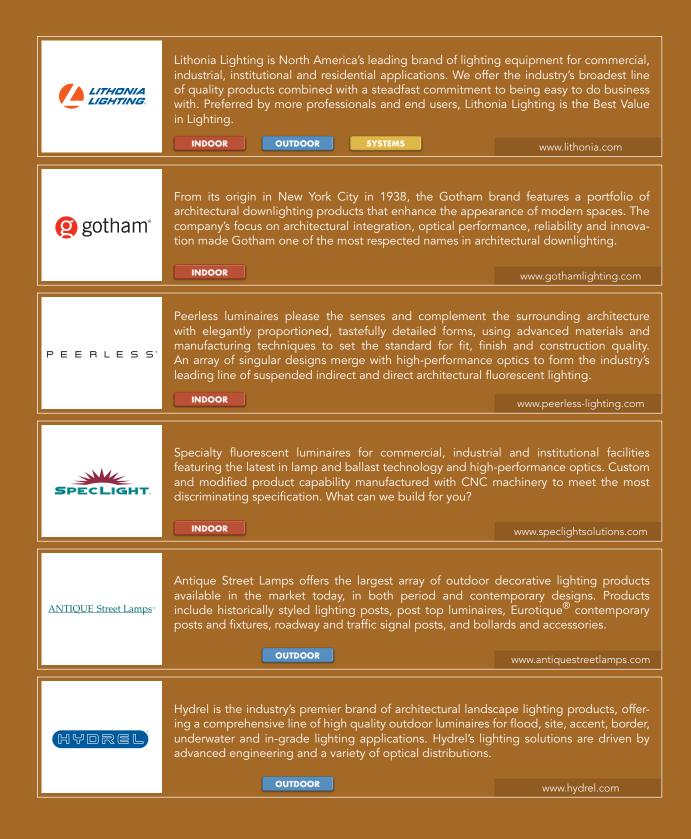
Our commitment to superior lighting solutions begins with the industry's strongest portfolio of quality products. Within our family of leading brands, you will find unequaled breadth of product to meet a wide variety of indoor and outdoor lighting needs in commercial, industrial, institutional and residential applications. At the heart of our new product development is a steadfast commitment to the development and application of innovative, new lighting technologies that improve lighting quality, improve lighting economics and enhance the overall environment through reduced energy consumption.

Our long-standing resolve is to provide superior service to our customers before and after the sale. From product selection and specification through product delivery and beyond, we are committed to providing the systems, tools and capabilities that deliver product and information when you need them. Simply put, our organization strives to be easy to do business with in everything we do.

Our people are committed to applying their unrivaled **experience and lighting expertise** to enhancing the overall customer experience. Combining that capability with the strength of our industry-leading agency sales force, you can count on us to support you for all your lighting needs.

Leadership That Delivers

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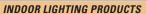
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Delivering Superior Service

Our long-standing resolve is to provide SUPERIOR SERVICE to our customers before and after the sale. From product selection and specification through product delivery and beyond, we are committed to providing the systems, tools and capabilities that deliver product and information when you need them. Simply put, our organization strives to be EASY TO DO BUSINESS WITH in everything we do.

A major component of being easy to do business with is delivering Solutions that Simplify. Our Simplify initiative is focused on introducing products, programs and processes that help customers better manage their business. Examples of how we are simplifying business include standardizing to MVOLT (multi-volt) ballasts, our online LithoniaDistributorCenter.com and our LightQuick® express-delivery program.

Simplify product selection

MVOLT Ballasts Standard



When it comes to ballast specification, Lithonia Lighting has found a way to make your job easier. We are the first lighting manufacturer to make MVOLT (multi-volt) ballasts standard across our complete fluorescent product line. Now there's no more guess work or hassles. Just one ballast to specify and order, at no additional charge. This conversion includes all fluorescent troffers, parabolics, RT5™ Volumetric Recessed Lighting, wraps, strips, rough service, and industrial products. Let MVOLT help you reduce inventories and transactions, while simplifying specifications and fixture wiring on the job.

so you can better manage your business.

Simplify information delivery

Lithonia Distribution Center, Instant Access Made Easy

The Lithonia Distributor Center (LDC) is a powerful online capability that delivers critical information when you need it. LDC helps simplify the way our distributors manage their lighting business – reducing costs, improving productivity and enabling sales growth.

Key Elements:

- Enhanced inventory search capabilities
- Enhanced order status functionality
- LightQuick eXpress delivery program
- Customer-specific pricing information
- Dynamically built custom product catalog
- Product substitution tool
- Marketing support tools
- New product/program information

These elements are only the beginning. LDC provides a strong, reliable platform to deliver numerous future capabilities that will continue to help distributors simplify their lighting business.

Simplify product delivery



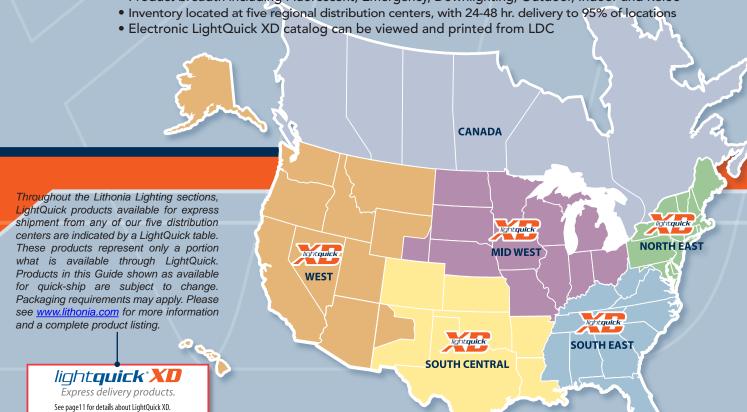
LightQuick XD, eXpress Delivery Within 24 to 48 Hours

LightQuick XD is a quick-ship program committed to delivering a select group of our most popular products in less than 48 hours.

Key Elements:

Description

• Product breadth including Fluorescent, Emergency, Downlighting, Outdoor, Indoor and Reloc



Delivering Electronic Tools

Anywhere, Anytime



Visual

Visual is a collection of lighting calculation tools and powerful 3-D modeling software engineered to simplify the design process and provide a comprehensive analysis for advanced lighting projects. For more information, visit www.VisualLightingSoftware.com.

Photometric Viewer

Photometric Viewer is a software program that allows you to view and print full photometric reports, which can be viewed side-by-side for quick product comparison. They are generated in interior, area, or floodlight formats. Find out more at www.lithonia.com/software.

Lithonia Lighting Reference Library

Our online Reference Library connects you to an array of useful information, including case studies, application guides, technical data, electronic submittal sheets, product images and logos, and a lighting glossary. To access it, go to www.lithonia.com.

Economic Viewer

Economic Viewer software provides simple financial comparisons between lighting alternatives, allowing you to better weigh your options. The program considers both initial and annual costs to determine payback periods and internal rate of return. For more information, visit www.lithonia.com/software.

CALCULATE ENERGY SAVINGS ▼

Pulse Start Calculator

The Pulse Start Calculator lets you compare a Probe Start HID system with a Pulse Start HID ballast/lamp system based on energy savings. This simple calculation spreadsheet shows the potential savings of the Pulse Start technology and calculates a simple payback period. Download it at www.lithonia.com/PulseStart.

KiloWatch Calculator

The KiloWatch Calculator evaluates energy savings for HID lighting when using the KiloWatch control system. The calculator lets you define the type of lighting system, hours of operation, occupancy rate, and energy rate for a specific lighting application. Find out more at www. lithonia.com/KiloWatch.

Energy Savings Calculator

Input lighting fixtures, wattage and kilowatts per hour among other data to calculate energy savings gained using more energy efficient lighting products. Specific calculations can be made comparing I-BEAM Fluorescent High Bays to standard HID Metal Halide fixtures. For more information, go to www.lithonia.com/energy.

Our electronic tools are accessible online 24/7 to assist you with your lighting specifications and designs



Delivering World-Class Training In Real Environments

Jim H. McClung Lighting Center





To keep up with the demands of today's rapidly changing technologies, our state-of-the-art Jim H. McClung Lighting Center continually offers a variety of training programs and continuing education courses.

Our courses offer valuable certification and association credit, including all associations participating in the Interior Design Continuing Education Council (IDCEC), such as the ASID, IDC, IDEC, IIDA, NKBA and IFMA.

Our 30,000 sq. ft. facility is an optimal learning environment for lighting designers, specifiers, electrical distributors, contractors, utility customers, and salespeople. Classrooms provide an intimate setting for one- or multi-day workshops, while tours of the demonstration area and interactive displays give visitors a true understanding of how various lighting options look and feel in real environments.

The Lighting Center is outfitted with advanced multimedia and computer equipment, and training programs can be tailored to your specific needs. Our in-house professionals will develop a workshop or arrange a tour that fits your needs.







We also fulfill:

AIA/CES Learning Units (LUs)

We have partnered with the American Institute of Architects/Continuing Education System as a Passport Member to offer LUs, which qualify for Health Safety and Welfare status.

NCQLP Lighting Education Units (LEUs)

LEUs are required by the NCQLP to maintain Lighting Certification. We currently offer LEU credits for Specifier Seminars, Visual training, and Distributor and Contractor Workshops.

Professional Development Hours (PDHs)

PDHs, geared specifically toward the engineering community, are available for all educational activities conducted at the center.

Delivering New and Innovative Products

We maintain a steadfast commitment to the development and application of innovative, new lighting technologies that improve lighting quality, improve lighting economics and enhance the overall environment through reduced energy consumption. The following is a representative list of New products found throughout our Production Selection Guide.



Fluorescent

Emergency Downlighting

Outdoor

Controls



RT5 - Choose the new standard in fluorescent lighting--RT5™ Volumetric Recessed Lighting. Unlike parabolics, RT5 is designed to deliver the right amount of soft, comfortable light throughout a room, truly enhancing the work environment making it an ideal solution for offices, schools, hospitals, retail, and other workspaces. (Page 24)



I-BEAM - The I-BEAM™ System featuring T5HO Cool Running™ Technology combines high ambient operation with the reliability, energy efficiency and lighting quality of fluorescent lighting. Fluorescent lighting has long been the benchmark for delivering reliable and efficient lighting in commercial spaces. Now, those same benefits translate to distribution centers, warehouses, industrial/manufacturing facilities and retail spaces. (Page 74)



Velaré - A new fully recessed, retractable emergency lighting unit for architects, lighting designers and specifiers. Designed to maintain the integrity of the space, Velaré™ architecutal emergency lighting is completely concealed within the housing plenum or wall, only revealing itself upon loss of power; perfect for high-end commercial, retail and architectural spaces. (Page 433)



Indura 4X - The next generation of Indura™ industrial emergency lighting is the Indura 4X. The patented industrial design has expanded to NEMA 4X applications such as mills, waste and sewage treatment centers, and food and beverage processing facilities. Whether for large warehouses, heavy manufacturing plants, or harsh mills and foundries, look to Indura for all your industrial emergency lighting. (Page 442)



CKP - Introducing the new CKP62 residential compact fluorescent downlighting system featuring the industry's first "plug and play" installation. The CKP62 ships with two housings in one box: a remote unit factory installed with an 11' flex and a master unit with a 2/26 watt triple-tube electronic ballast installed on the junction box. The "plug and play" benefits reduce installation time by a third, which saves on labor costs. (Page 318)



Aeris Flood & Suspend - Whether it's a parking area, a building entrance, or full area lighting, the Aeris™ Architectural Outdoor Family delivers a complete lighting solution. The streamlined design provides the versatility required to complement a variety of architectural details. (Pages 473 and 523)



Quarter Sphere Architectural Sconce
The WSQs new quarter sphere sconce
adds versatility to an already popular
product line. Designed for multiple
uses, the new shape enables precise
light placement with the added flexibility of lens-up or lens-down orientation.
(Page 506)



SYRS EXTDS - Ideal for applications which require manual and automatic control of RT5 fluorescent fixtures equipped with step-dimming ballasts, fluorescent fixtures wired for inboard outboard switching or two independent lighting zones. May be used as a standalone room controller or connected to a Synergy® system for integration with a building automation system. (Page 660)



Litronic Occupancy Sensors - A new and improved line of occupancy sensors and power packs designed to cost-effectively meet the demands of energy codes such as ASHRAE 90.1, IECC 2003, and California's Title 24. They incorporate several new standard features, including multi-voltage operation, integrated photocell, and flexible mounting options offered at lower prices than the old line. (Page 672)

g gotham



Elevations - The Elevations™ luminaire is more than just another pretty face among pendant downlights. It is a highly versatile, precision lighting tool equipped with the same patented Bounding Ray™ reflector optics as in Gotham's industry-leading re-cessed downlights. (Page 248)



ICE Luminous Cross Baffles with an Edge -

Make a distinct visual statement. Differentiate a space with light. Add unique character. ICE™ luminaires are designed to complement other Gotham downlights, wallwash and directional accent products within a space — so you can achieve varying effects while maintaining basic continuity of appearance. (Page 222)



GOT - The quartz incandescent lamping within Gotham's hybrid ellipsoidal optical system delivers maximum luminance from a quiet 6-inch aperture. A full range of T4 lamps includes 150, 250, 400 & 500 watts. For each, the luminaires can be configured for narrow, medium or wide-beam distributions. (Page 237)

GQ family includes fixed and tiltable luminaires to satisfy every need in auditoriums, theatres, churches, arenas and similar high-ceiling spaces. GQ family's state-of-the-art optics achieve an optimum balance of high efficiency and visual comfort, eliminating flash below the 40° shield angle, providing an exceptionally quiet ceiling.



G2 Louver Bollard - The G2[™] Bollard Series is designed to work in building perimeter areas and ubic spaces completing a wide variety of archi-tectural styles. The G2 Bollard fixture offers an unmatched impact-resistant mounting and leveling design ensuring life-long performance. (Page 600)



4750 Series - With its T5 and T5HO lamp performance, high output symmetrical and asymmetrical distributions, and simple design, the Hydrel 4750 Series is ideal for spreading soft, even illumination along walls, signs and planters. (Page 630)

PEERLESS



Parallels - Our exclusive GrateOptic[™] technology handles the direct component in a visually interesting fashion, casting a light-and-dark linear pattern down the length of the diffuser surface while effectively softening the light source for optimal comfort. (Page 138)



Lightfoil 2&3 -This is architectural surface lighting in its most advanced state. Lightfoil [®]'s optical design is a remarkable accomplishment – no other system delivers light so abundantly, so smoothly, so efficiently for contemporary large-scale environments. With its range of available proportions, lengths, and optical packages, Lightfoil satisfies lighting needs in a variety of interiors, from large scale public spaces to office environments. (Page 132)



Cerra ID - Cerra® ID is an indirect/direct suspended luminaire that features a low profile and pure crescent shape. Use Cerra ID in classrooms, conference rooms, laboratories, and office spaces where the general benefits of indirect lighting are desired but a higher percentage of direct light is required.

W SPECLIGHT ANTIQUE Street Lamps



SpecLightSpecLight's FIB series luminaire is the perfect replacement for HID high bay luminaries. Ideally suited for retail, warehouse, industrial, commercial and manufacturing areas, it is designed for large area lighting application and heights of up to 50 feet. (Page 121)



Antique Street Lamps

Antique Street Lamps is committed to protecting our visual environment by offering nighttime friendly products with full cutoff such as the Eurotique Series Munich and Hanover, and partial cutoff with the Post Top Series DS1-10. (Page 588)

Lithonia Lighting DELIVERING THE BEST VALUE IN LIGHTING

Lithonia Lighting has delivered the Best Value in Lighting for more than 60 years, providing the industry's broadest line of commercial, industrial, institutional and residential fixtures.

Starting in 1946 as a fluorescent lighting manufacturer, today Lithonia Lighting is the largest fluorescent lighting manufacturer in the world. Over the years, however, the Lithonia brand has come to mean much more than just fluorescent lighting as more than half our sales are generated from non-fluorescent product categories such as Emergency Systems, Outdoor lighting, Downlighting and Indoor HID among others. Our products have always been known for quality, reliability and solid performance, making Lithonia Lighting the most specified brand in the lighting business.

In addition to product strength, superior customer service has long been a hallmark of Lithonia Lighting. From product specification and selection through delivery and beyond, our people are committed to making it easy for you to get the products and the information you need, when you need them.

It's no wonder that Lithonia Lighting is the brand preferred by more lighting professionals across North America and the world. Our customers expect superior value and look to Lithonia Lighting to deliver the Best Value in Lighting.





Lithonia Fluorescent

Lithonia develops and manufactures the most comprehensive selection of fluorescent fixtures in the industry for commercial, industrial, and institutional applications. Our high quality fixtures incorporate the latest in energy-saving lamp and ballast technology.



Lithonia Emergency Systems

We manufacture a wide selection of exit signs, emergency lighting units, fluorescent battery packs and standby AC power systems for commercial and industrial applications, as well as special environments.



Lithonia Outdoor

Lithonia's outdoor products are unmatched in the industry for performance and style. They feature superior-grade materials, high-performance optical systems, and distinctive designs. Choose from a wide selection of luminaires, poles, mounting options, and finishes.

WHATEVER YOUR LIGHTING APPLICATION NEEDS, LITHONIA LIGHTING OFFERS YOU THE BEST OPTIONS AVAILABLE.



Lithonia Indoor HID

Lithonia has an extensive selection of indoor HID products for both high-mount and low-mount applications. Industrial lighting withstands vibration, dirt, heat, and moisture while providing efficient illumination. Commercial lighting creates a bright, comfortable atmosphere, and recreational lighting delivers glare-free illumination for player and spectator safety.



Lithonia Rough Service

Our rough service fixtures are designed to withstand physical and environmental abuses, from the extreme intent-to-destroy to minor impacts. They are ideal for schools, recreational areas, institutions, apartment complexes, train and bus stations, parking garages, and government buildings.



Lithonia Downlighting

Lithonia's downlighting products include a large selection of compact fluorescent, incandescent, HID, and low voltage fixtures. With aperture sizes ranging from 3" to 8", our housings meet industry requirements for rugged construction and easy installation.



Lithonia Residential Recessed

Our residential recessed line offers products with 3", 5", and 6" apertures in incandescent, low voltage, and compact fluorescent. Our housings provide the easiest installation in the industry, while requiring the fewest SKUs for standard application.



Lithonia Decorative Fluorescent

We are the industry leader in creating attractive, affordable, energy-efficient decorative lighting. Our wide array of fixtures ranges from rich, solid oak frames to dainty, frosted glass mini-pendants. Many fixtures are suitable for both residential and light commercial use.



Lithonia Track

Lithonia has a full line of commercial track and display lighting available in one- and two-circuit configurations. We also offer line and low voltage track heads for a wide range of popular lamps, along with a full selection of accessory filters and lowers.



Lithonia Control Systems

Lithonia offers a full range of control systems for both architectural dimming and lighting energy management. These systems enhance efficiency by governing the amount of light needed to maintain illuminance levels and by limiting light use to occupied spaces.

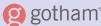


Lithonia RELOC® Wiring Systems

The leader in modular wiring for more than 20 years, RELOC features plug-in, relocatable components for wiring commercial and industrial lighting fixtures. RELOC offers significant benefits over conventional hardwiring, including reductions in installation time and easy fixture relocation.

Delivering A Complete Portfolio of Leading Brands





Gotham is one of the most respected names in architectural recessed downlighting. By focusing on optical performance, architectural integration, reliability, and innovative manufacturing processes, Gotham creates exceptional luminaires that enhance the appearance of modern spaces. www.gothamlighting.com

PEERLESS

Peerless suspended indirect and direct architectural lighting is designed to please the senses and complement the surroundings. Utilizing only the best materials and advanced engineering and manufacturing techniques, Peerless creates elegant fixtures that emit a soft, natural light, both enhancing the space and increasing productivity. www.peerless-lighting.com





HYDREL

Hydrel is the industry's premier brand of architectural landscape lighting products. Choose from high-performance luminaires for a variety of applications, including accent, flood, site, in-grade, border, and under-water. Hydrel also offers an extensive line of accessories and mounting options. www.hydrel.com

ANTIQUE Street Lamps

Antique Street Lamps offers the largest selection of outdoor decorative lighting products on the market today. The extensive historical product line includes posts, post top luminaires, crossarms, and wall brackets. The contemporary Eurotique line consists of posts, fixtures, and an array of bracket arm styles. www.antiquestreetlamps.com







SpecLight creates specialty fluorescent fixtures for commercial, industrial, and institutional spaces. Each luminaire incorporates the latest in lamp and ballast technology, as well as high-performance optics. SpecLight's state-of-the-art manufacturing facility can create custom luminaires uniquely designed to meet your lighting needs.

www.speclightsolutions.com



That is Good For People and The Environment

"Sustainable business practices are fundamental to the operation and success of Acuity Brands Lighting (ABL). We define 'sustainability' as conducting our business balancing economic, environmental, and social objectives in ways most likely to create long-term value without taxing the resources on which we depend. Sustainable practices reduce pollution and avoid depletion of the earth's finite natural resources. Sustainable practices promote innovation and efficiency. They provide solutions and promote growth. Sustainable practices enhance the quality of life of our people and the communities in which we do business. These practices benefit our customers, employees, shareholders, and communities."

At Acuity Brands Lighting, we are strongly committed to the concepts of environmental sustainability and to lighting solutions that are good for people. We believe that lighting can be energy efficient and environmentally responsible, while also providing good visibility and making our surroundings productive, pleasant, safe and secure. We actively promote sustainability in our company, products, processes, and sales and training efforts.

Our commitment to sustainability is clear. We are a member company of the U.S. Green Building Council (USGBC) and an active technical advisor to the USGBC. We actively participate in the development of national and state energy codes and sustainability standards through ASHRAE, IESNA, Alliance to Save Energy, DOE's Rebuild America Program, the Consortium for Energy Efficiency and the U.S. EPA ENERGY STAR® program.

We believe that sustainability is promoted through how we conduct our business and by sharing information on sustainable design solutions. We have participated in various sustainability shows including sponsoring the GreenBuild national conference. We conduct various regional and national training programs on sustainability for lighting design. We have been selected for various LEED show case projects, such as the "Eco Office" at the Southface Energy Institute.

Within our company, we bring home the concepts of sustainability through internal recycling programs, mandatory environmental training for employees and consistent review of materials and processes used for our lighting products.

By making sustainability a priority, we know we are enhancing the quality of life for our employees, our customers, and the communities in which we do business.

www.acuitybrandslighting.com/sustainability



LITHONIA LIGHTING®



Fluorescent

Lithonia manufactures the broadest and most innovative selection of fluorescent products in the industry for commercial, institutional and industrial applications.

Lithonia fluorescent fixtures incorporate the latest in energy-saving technology and design. This provides the assurance of high-quality, superior-performance products that meet your budget requirements. Every fixture is backed by Lithonia's industry-leading service, technical expertise and support.





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LITHONIA LIGHTING

ENHANCE YOUR



INTRODUCING RT5™ VOLUMETRIC RECESSED LIGHTING.

The new standard in fluorescent lighting. In a world dominated by parabolic fixtures, we saw the need for lighting that doesn't create an environment dominated by harsh overhead light or confining cave effect. The RT5 $^{\text{TM}}$ Series is ideal for offices, schools, hospitals, retail and other workspaces.



CREATES VISUAL HARMONY

RT5[™] luminaires eliminate the glare and dark spots associated with parabolics, creating a comfortable environment to work in.

IMPROVES OVERALL AESTHETICS

Thanks to its unique design, the RT5 $^{\text{TM}}$ Series improves the aesthetics of any room by creating an unprecedented combination of volumetric lighting and a quiet ceiling. The fixture is pleasing to the eye, without drawing undue attention.

REDUCES ENERGY CONSUMPTION

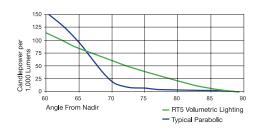
 $RT5^{TM}$ volumetric lighting is good for the environment delivering up to 33% savings in energy over a standard 18-cell, three-lamp T8 parabolic.



ENVRONMENT

VOLUMETRIC LIGHTING DONE WELL.

Advances in flat screen monitor technology and software afford the opportunity to allow controlled brightness at high angles. Brightness at these higher angles illuminates the entire volume of the space, eliminating harsh shadows, dark walls and cave effect arising from the sharp cutoff of the parabolic fixture. The controlled and gradual decrease in brightness delivered by $RT5^{\text{TM}}$ volumetric lighting enhances the environment without producing excessive light in the "glare zone."



A FEELING OF SPACIOUSNESS

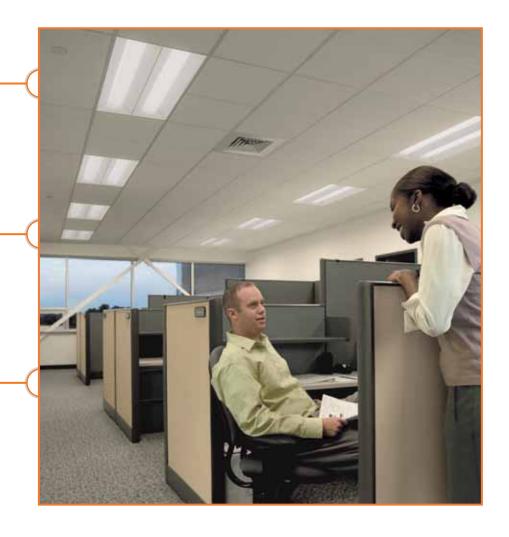
The unique optical design of the RT5[™] luminaire distributes light uniformly onto room and cubicle walls, from the bottom nearly to the top, eliminating the caving effect common with parabolics.

OUIET PLEASE .

With its recessed refractor, high-angle control, and balanced fixture-to-ceiling luminance ratio, the RT5 $^{\text{TM}}$ Series produces a quiet ceiling that is not dominated by bright openings.

GOODBYE GLARE -

RT5™ fixtures produce volumetric light, while controlling light at high angles. This eliminates direct glare, as well as computer glare for the most widely used monitors and software today.



www.lithonia.com, keyword: RT5

24

Volumetric Recessed Lighting

RT5[™]





Intended Use

The RT5™ Series is designed for applications where comfort, aesthetics and energy savings are important. With volumetric lighting, this product is ideal for offices, schools, hospitals, retail and numerous other commercial applications.

Features

Two-lamp RT5[™] luminaire provides 33% energy savings when compared to a common three-lamp T8 system.

Low profile 3¹/8″ depth makes the RT5™ fixture ideal for applications where plenum height is a factor.

Two-piece refractor system uses the combination of diffusing optical film and precisely extruded prisms to efficiently diffuse light.

Reflector includes micro-facets that echo the frequency of the prisms in the refractor, providing a quiet appearance in the ceiling.

Available in a number of ballast configurations including set light output or step level dimming. Step-dimming options (available on some units) allow the system to be switched to 50% power for compliance with common energy codes while illuminating both lamps.

Sloped endplates provide a balanced fixture-toceiling ratio while enhancing the perception of fixture height.

Ballast/lamp ballast efficacy of F28T5 is 100+ LPW.

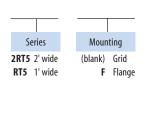
Side-mounted ballast tray accessed by removing adjacent ceiling tile.

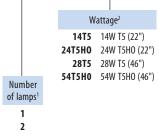
Listings

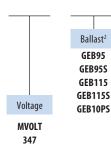
UL Listed (standard). CSA Certified (see Options).

Example: 2RT5 28T5 MVOLT GEB95 LPM835P

Ordering Information







Lamp type³ LPM835P Lamped with premium 3500°K lamp⁴ LPM830P Lamped with premium 3000°K lamp⁴ LPM841P Lamped with premium 4100°K lamp⁴ LP835 Lamped with premium 3500°K lamp⁵ LP830 Lamped with premium 3000°K lamp⁵

LP841 Lamped with premium 4100°K lamp⁵

	Options
PWS1836	6' prewire, 3/8" diameter, 18-guage, 3 wire ⁶
PWS1846	6' prewire, ³ / ₈ " diameter, 18-guage, 4 wire ⁷
GLR	Fast blow fuse ⁸
EL14	Emergency battery pack
CSA	CSA Certified ⁹

NOTES:

- 1 RT5™ 1x4 only. All other configurations are two-lamp.
- 2 Consult product availability for wattages and ballast types.
- 3 Lamp type required. All fixtures shipped with lamps installed.
- 4 F28T5 lamp type only.
- 5 F14T5, F24T5H0 and F54T5H0 lamp types only.
- 6 For use with standard, non step-dimming ballast.
- 7 For use with step-dimming ballast.
- 8 Specify voltage.
- 9 Consult factory for 347V.

Availability and Dimensions						
Series	Series Nominal size Number of lamps Lamp type Ballast Description		Description			
			28T5	GEB95	Standard, set light output, .95BF	
			28T5	GEB95S	Standard, step dimming, .95BF	
2RT5	2'x4'	2	28T5	GEB115	High light, set light output, 1.15BF	
			28T5	GEB115S	High light, step dimming, 1.15BF	
			54T5H0	GEB10PS	Very high output, set light output, 1.0BF	
			14T5	GEB115	High light, set light output, 1.15BF	
2RT5	2'x2'	2	14T5	GEB115S	High light, step dimming, 1.15BF	
			24T5H0	GEB10PS	Very high output, set light output, 1.0BF	
		1	28T5	GEB10PS	Standard, set light output, 1.0BF	
		2	28T5	GEB95	Standard, set light output, .95BF	
RT5	1′x4′	2	28T5	GEB95S	Standard, step dimming, .95BF	
		1	54T5H0	GEB10PS	Very high output, set light output, 1.0BF	



Intended Use

The surface-mount RT5™ Series is designed for applications where comfort, aesthetics and energy savings are important. With volumetric lighting, this product is ideal for offices, schools, hospitals, retail and numerous other commercial applications.

Features

Two-lamp RT5™ luminaire provides 33% energy savings when compared to a common three-lamp T8 system.

Low profile 35/8" in depth.

Two-piece refractor system uses the combination of diffusing optical film and precisely extruded prisms to efficiently diffuse light.

Reflector includes micro-facets that echo the frequency of the prisms in the refractor, providing a quiet appearance in the ceiling.

Available in a number of ballast configurations including set light output or step level dimming. Step-dimming options (available on some units) allow the system to be switched to 50% power for compliance with common energy codes while illuminating both lamps.

Ballast/lamp efficacy of F28T5 is 100+ LPW.

Listing

UL Listed (standard). CSA Certified (see Options).

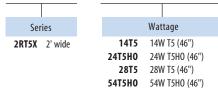


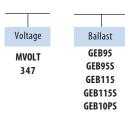


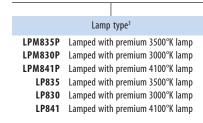


Example: 2RT5X 28T5 MVOLT GEB95 LPM835P

Ordering Information







	Options
EL14	Fast blow fuse Emergency battery pack CSA Certified

Availability and Dimensions					
Series	Nominal size	Number of lamps	Lamp type	Ballast	Description
			28T5	GEB95	Standard, set light output, .95BF
			28T5	GEB95S	Standard, step dimming, .95BF
2RT5X	2'x4'	2	28T5	GEB115	High light, set light output, 1.15BF
			28T5	GEB115S	High light, step dimming, 1.15BF
			54T5H0	GEB10PS	Very high output, set light output, 1.0BF
			14T5	GEB115	High light, set light output, 1.15BF
2RT5X	2'x2'	2	14T5	GEB115S	High light, step dimming, 1.15BF
			24T5H0	GEB10PS	Very high output, set light output, 1.0BF





Architectural Fluorescent



Why Direct/Indirect?

The numerous lighting solutions available today allow the designer to choose the best fixtures based on the given architectural details of the space. Recessed direct/indirect is effective in spaces with low ceiling heights. Although originally developed for smaller private offices, anti-glare CRT screens, higher office partitions and improvements in information display have made recessed direct/indirect lighting effective in any open work area.

The high-angle light from the Avante® Series distributes light evenly throughout the space. This results in a lighter airy space with much less glare than any other recessed direct only system.







Surface / Sconces















AVSR



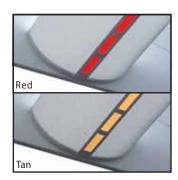
Wide Range of Options

The direct-through-the-diffuser light represents about 70% of the total light. The most popular diffuser is the round hole perforated metal diffuser backed with thin acrylic opal insert. This combination provides a pleasing balance between the brightness of the white reflectors and the surface of the diffuser. Acrylic lensed diffusers, straight blade louvers and slotted perforated patterns change the direct lighting effect and fixture's appearance.

Fixture brightness can be reduced by choosing the optional Aluminum Stepped Reflector. The diffuse aluminum surface breaks up light and results in less glare and more comfortable lighting.

Color Accents





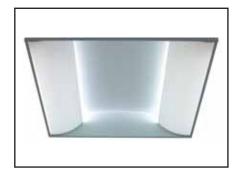
Light Distributions



Symmetric



Asymmetric



SMD (Side Mounted Diffuser)





28

Recessed Direct/Indirect Lighting

Avante®

2' X 2'



Intended Use

Originally developed for the small private office, Avante® 2x2 fixtures also are effective in corridors, libraries and food-service areas to enhance facial rendering and the feeling of space.

Features

Optimum mix of directional and diffuse reflected light for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 2'x2' and 2'x4' symmetric distributions for general area lighting applications.

Choice of shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

Injection-molded plastic light traps prevent light leaks between shielding and end plates.

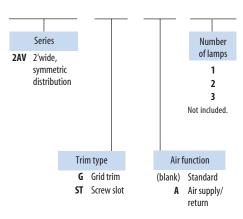
Compatible with screw slot and most 2-foot ceiling grids.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V - see Options). NOM Certified (see Options).

Ordering Information



Lamp type Light distribution **17** 17W T8 (24") (blank) Symmetric distribution 14T5 14W T5 (22") 24W T5 (22") 40W TT5 (24") **CF50** 50W TT5 (24")

Diffuser

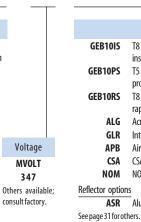
MDR Metal diffuser, round holes SBL Straight blade louver, round holes Metal diffuser, mini slots.

24T5H0

CF40

ADP Acrylic diffuser, linear prismatic lens Others available; consult factory.

Example: 2AV G 2 CF40 MDR MVOLT GEB10RS



Options **GEB10IS** T8 electronic ballast, ≤10% THD, instant start **GEB10PS** T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, ≤10% THD, rapid start Acrylic litter guard ALG Internal fast blow fuse1 APB Air pattern control blades CSA Certified (347 only) **CSA** NOM Certified NOM Reflector options ASR Aluminum stepped reflector

NOTES:

1 Must specify 120 or 277 voltage

	Ballast/Lamp Compatibility				
	17	14T5	24T5H0	CF40	CF50
GEB10IS					
GEB10PS					
GEB10RS					

I	Accessori	ries (Ord	der	separatel	ly

Drywall ceiling adapter, unit installation. Use G trim plus DGA for support in plaster ceilings. (Add 22 for 2x2)

23-11/16 (60.2)	
8 (20.3)	5-1/2 (14.0)
2x2 symmetric	

Dimensions are shown in inches (centimeters) unless otherwise noted.

	Availability and Dimensions					
Number Lamp Height Size Series of lamps type in.(cm)						
2'x2'	2AV	1, 2, 3	14T5, 17, 24T5H0, CF40, CF50	5½ (14.0)		



Intended Use

An exceptional general lighting product that performs well in large spaces with high ceilings. Especially suitable for open office areas, public indoor space, libraries and airport waiting areas.

Features

The optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 2'x2' and 2'x4' symmetric distributions for general area lighting applications. End-to-end row mounting capability.

Choice of shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

Injection-molded plastic light traps prevent light leaks between shielding and end plates.

Compatible with screw slots and most 2-foot ceiling grids.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

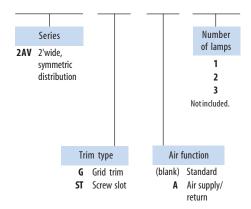


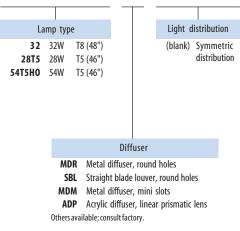
2' X 4'



Example: 2AV G 3 32 MDR MVOLT GEB10IS

Ordering Information







Options T8 electronic ballast, ≤10% THD, GEB10IS instant start **GEB10PS** T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, ≤10% THD, rapid start Acrylic litter guard ALG GLR Internal fast blow fuse1 APB Air pattern control blades CSA Certified (347 only) CSA NOM Certified NOM Reflector options ASR Aluminum stepped reflector See page 31 for others.

NOTES:

1 Must specify 120 or 277 voltage.



See page11 for details about LightQuick XD.

Description

2AV G 2 CF40 MDR MVOLT GEB10RS
2AV G 3 32 MDR MVOLT 1/3 GEB10IS
2AV G 3 32 MDR MVOLT GEB10IS
2AV G 2 32 MDR MVOLT GEB10IS

Availability and Dimensions					
Size	Series	Number of lamps	Lamp type	Height in.(cm)	
2'x4'	2AV	1,2,3	28T5, 32, 54T5H0	5½ (14.0)	

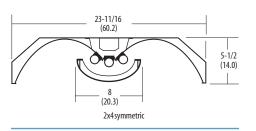
Bal	last/Lamp	Compatibility			
	32	28T5	54T5H0		
GEB10IS					
GEB10PS					
GEB10RS					

Accessories (Order separately)

DGA_ Drywall ceiling adapter, unit installation. Use G trim plus

DGA for support in plaster ceilings. (Add 24 for 2x4)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



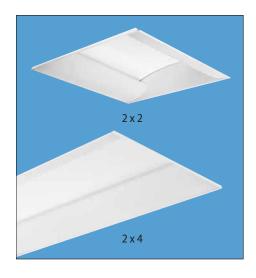
LITHONIA LIGHTING

30

Recessed Direct/Indirect Lighting

Avante®

Side-Mount Diffuser



Intended Use

Side-mounted diffuser, a recessed direct/indirect alternative with performance similar to symmetric Avante®. Especially suited for conference rooms, corridors and reception areas where soft, distinctive lighting is required.

Features

The optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 2'x2' and 2'x4' with side-mounted diffusers.

Available with MDR and MDM shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional low-brightness diffuse aluminum stepped reflectors available.

Can be installed in continuous rows.

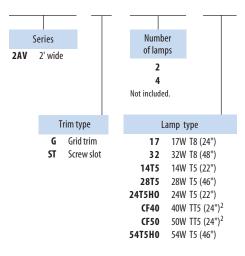
Injection-molded plastic light traps prevent light leaks between diffusers and end plates.

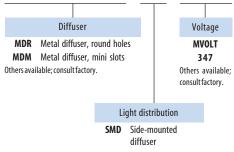
Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings

UL Listed (standard). CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Ordering Information





Example: 2AV G 2 32 MDR SMD MVOLT GEB10RS

Options GEB10IS T8 electronic ballast, <10% THD, instant start GEB10PS T5 electronic ballast, ≤10% THD, program start GEB10RS T8 electronic ballast, ≤10% THD, rapid start Acrylic litter guard GLR Internal fast blow fuse1 CSA CSA Certified (347 only) NOM Certified NOM Reflector options ASR Aluminum stepped reflector See page 31 for others.

Accessories (Order separately)

DGA_ Drywall ceiling adapter, unit installation. Use G trimplus DGA for support in plaster ceilings. (Add 22 for 2x2, 24 for 2x4)

NOTES:

- 1 Must specify 120 or 277 voltage.
- 2 Two-lamp only.

	- 23-11/16 (60.17)		
00		600	5-1/2 (14.0)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Ballast/Lamp Compatibility									
	17	32	14T5	28T5	24T5H0	CF40	CF50	54T5H0	
GEB10IS									
GEB10PS									
GEB10RS									

	Availability and Dimensions									
Nominal		Number	Lamp	Height						
size	Series	of lamps	type	in.(cm)						
2'x2' SMD	2AV	2, 4	14T5, 17, 24T5H0	5½ (14.0)						
Z XZ SMD	ZAV	2	CF40, CF50	5½ (14.0)						
2'x4' SMD	2AV	2,4	32, 28T5, 54T5H0	5½ (14.0)						



Options		AV 1x2	AV 1x2 ASY	AV 1x4	AV 1x4 ASY	2AV 2x2	2AV 2x2 SMD	2AV 2x4	2AV 2x4 SMD
MDR	Metal diffuser round holes	•						•	
MDM	Metal diffuser mini-slots								
SBL	Straight blade louver								
ADP	Acrylic diffuser prismatic								
ASR	Aluminum stepped reflector								
APB	Air pattern control blades								
ALG	Acrylic litter guard								
GLR	Internal fast blow fuse								
LP_	Lamped. Specify lamp type and color.	•							-
EL	Emergency battery pack (nominal 300 lumens, see Life Safety section)	■ ¹	■ ¹	■ ¹	■ ¹	= 1	■ ¹	■ ¹	■ ¹
EL55	Emergency battery pack for T5/T5H0 (nominal 390-700 lumens, see Life Safety section)	•	•						•
PWS1836	6" prewire, 3/8" dia., 18-gauge, 3 wires								
LST	Labor-saving tandem								
NYC	New York City approved								
СР	Chicago plenum approved								

Accessories fo	or drywall ceiling mounting *	AV 1x2	AV 1x4	2AV 2x2	2AV 2x4
DGA12	Drywall ceiling adapter				
DGA14	Drywall ceiling adapter				
DGA22	Drywall ceiling adapter				
DGA24	Drywall ceiling adapter				

^{*}Use G trim plus DGA accessory for fixture trim flange and fixture support in plaster or plasterboard ceilings.

NOTES:

1 Compact fluorescent and T8 only.



Acrylic litter guard is a panel of clear acrylic permanently hinged to each reflector. It effectively prevents litter from gathering in diffuser, yet does not interfere with relamping.

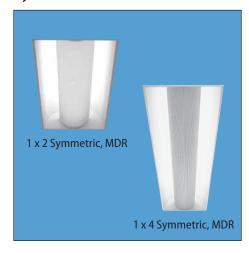
32

Recessed Direct/Indirect Lighting

Avante®

1' X 2' and 1' X 4'

Symmetric



Intended Use

Symmetric 1'X4' Avante® fixtures provide general indoor lighting. When joined in continuous rows, they provide pleasant and efficient lighting for open office plans. Symmetric 1' X 2' fixtures often are used to light small areas.

Used in patterns, large public spaces illuminated with 1' wide symmetric Avante® fixtures are bright and attractive, yet with an unobtrusive ceiling.

Features

The optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Available in 1'x 2' and 1'x 4' symmetric distributions for general area lighting applications. End-to-end row mounting capability.

Available with a variety of shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

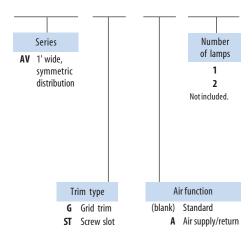
Injection-molded plastic light traps prevent light leaks between shielding and end plates.

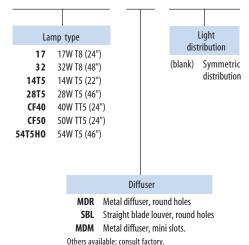
Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings

UL Listed (standard). CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Ordering Information





Example: AV G 2 32 MDR MVOLT GEB10RS

Voltage **Options** MVOLT **GEB10IS** T8 electronic ballast, <10% THD, instant start 347 Others available; **GEB10PS** T5 electronic ballast, ≤10% consult factory THD, program start GEB10RS T8 electronic ballast, ≤10% THD, rapid start ALG Acrylic litter guard Internal fast blow fuse1 GLR CSA CSA Certified (347 only) NOM NOM Certified Reflector options ASR Aluminum stepped reflector

Accessories (Order separately)

See page 31 for others.

DGA_ Drywall ceiling adapter, unit installation. Use G trim plus DGA for support in plaster ceilings. (Add 12 for 1x2, 14 for 1x4)

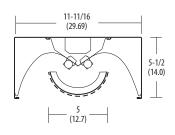
	Ballast/Lamp Compatibility									
	17	32	14T5	28T5	CF40	CF50	54T5H0			
GEB10IS										
GEB10PS										
GEB10RS										

Availability and Dimensions									
Size	Series	Number of lamps	Lamp type	Height in.(cm)					
1'x2'	AV	1, 2	17, 14T5, CF40, CF50	5½ (14.0)					
1'x4'	AV	1, 2	28T5, 32, 54T5H0	5½ (14.0)					

NOTES:

1 Must specify 120 or 277 voltage.

 $Dimensions are shown in {\it inches} ({\it centimeters}) \, unless otherwise \, noted.$



1x4 symmetric



Intended Use

Asymmetric products deliver uniform vertical illumination. They produce excellent corridor lighting or accent lighting for retail applications in continuous rows.

Features

Optimum mix of directional and diffuse reflected light combine for balanced illumination between task and proximate walls, enhanced visual comfort and minimized shadows.

Asymmetric distribution available for dedicated wall washing or in combination with symmetric luminaires to maintain perimeter illumination.

Available with a variety of shielding options.

Matte-white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.

Injection-molded plastic light traps prevent

light leaks between shielding and end plates.

Compatible with screw slot and most 2-foot ceiling grids.

Covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.

Listings

UL Listed (standard). CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).



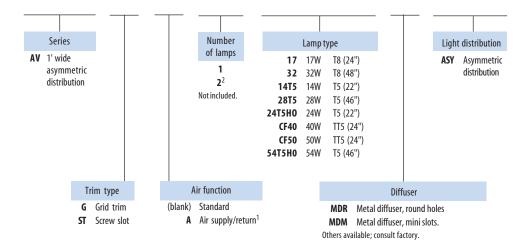
1' X 2' and 1' X 4'

Asymmetric



Ordering Information

Example: AV G 1 CF40 MDR ASY MVOLT GEB10RS



Voltage Options MVOLT GEB10IS T8 electronic ballast, ≤10% THD, 347 instant start GEB10PS T5 electronic ballast, ≤10% THD, Others available; consult factory. program start **GEB10RS** T8 electronic ballast, ≤10% THD, rapid start **ALG** Acrylic litter guard Internal fast blow fuse³ GLR CSA CSA Certified (347 only) NOM NOM Certified Reflector options ASR Aluminum stepped reflector See page 31 for others.

NOTES:

- 1 Not available in AV 1x2 asymmetric.
- 2 2-lamp available only in AV 1x2 with 14T5, 17, or 24T5H0.
- 3 Must specify 120 or 277 voltage.

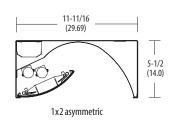
	17	32	mp Comp 24T5H0		28T5	54T5H0
GEB10IS						
GEB10PS						
GEB10RS						

Availability and Dimensions									
Number Lamp Height									
Size	Series	of lamps	type	in.(cm)					
1'x2' ASY	ASY AV	1, 2	14T5, 17, 24T5H0	5½ (14.0)					
IXZ ASI	AV	1	CF40, CF50	5½ (14.0)					
1'x4' ASY	ΑV	1, 2	32,28T5, 54T5H0	5½ (14.0)					

Accessories (Order separately)

DGA_ Drywall ceiling adapter, unit installation. Use G trim plus
DGA for support in plaster ceilings. (Add 12 for 1x2, 14 for
1x4)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

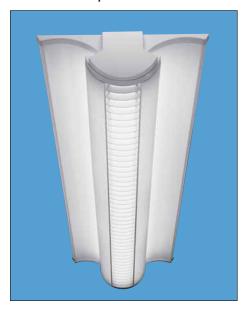




34

Avante®

Surface/Suspended



Intended Use

1x2 – ideal for general or task lighting in alcoves, narrow corridors and small spaces. 1x4 - suitable for general area or task-specific lighting in both new construction and remodeling. Especially suited for conference rooms, reception areas, health care institutions, education facilities and offices.

Features

Contemporary, low-profile construction, suitable for surface and suspended mounting, providing direct or semi-direct light distribution.

Rugged steel housing in 2', 4' or 8' field-joinable units for continuous rows.

Injection molded joiners with snap-on finished ends.

Available with popular Avante® 1x4 shieldings -MDR, MDM and SBL.

Reflectors finished with high-reflectance, matte-white polyester powder paint for uniform light distribution.

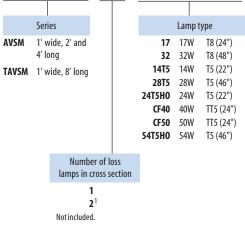
Reflector option includes painted white steel reflectors with or without semi-perforated option for uplight, or diffuse aluminum stepped reflector (ASR).

T5HO or T8 lamping configurations available.

Listings

UL Listed (standard). CSA Certified (standard; except for 347V – see Options).

Ordering Information



	- 1			
	Lamp	ype		Diffuser
17 32 14T5 28T5 5H0 CF40 CF50	17W 32W 14W 28W 24W 40W 50W 54W	T8 (24") T8 (48") T5 (22") T5 (46") T5 (22") TT5 (24") TT5 (24") TT5 (46")	MDR MDM SBL Others ava	Metal diffuser, round holes Metal diffuser, mini slots Straight blade louver, round holes ailable; consult factory.
				Light distribution

Uplight, round hole, perforated

Voltage **Options MVOLT** GEB10IS T8 electronic ballast, <10% THD, instant start 347

T5 electronic ballast, \leq 10% THD, program start GEB10PS **GEB10RS** T8 electronic ballast, \leq 10% THD, rapid start ALG Acrylic litter guard Internal fast blow fuse³ CSA CSA Certified (347 only)

Reflector options

Others available; con-

sult factory.

ASR Aluminum stepped reflector⁴

Example: AVSM 2 32 MDR DLS MVOLT GEB10RS

- 1 Available with straight-tube T5 or T8 lamps only.
- 2 For suspended mounting only.
- 3 Must specify120 or 277 voltage.

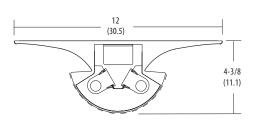
DLS Downlight, solid

4 Not available with ULR.

	Ballast/Lamp Compatibility								
	17	32	14TŚ	28T5	24T5H0	CF40	54T5H0		
GEB10IS									
GEB10PS									
GER10RS									

		Availability and	Dimensions	
Nominal		Number	Lamp	
size	Series	of lamps	type	Length
1'x2'	AVSM	1, 2	17, 14T5, 24T5H0	2'
		1	CF40, CF50	2'
1'x4'	AVSM	1, 2	32, 28T5, 54T5H0	4'
1'x8'	TAVSM	1. 2	32, 28T5, 54T5H0	8'

Dimensions shown in inches (centimeters) unless otherwise noted.

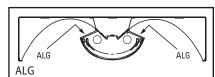




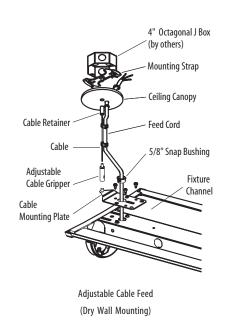
Options for AVSM		AVSM 1x2	AVSM 1x4	TAVSM 1x8
GLR	Internal fast blow fuse			
LP_	Lamped; specify lamp type and color			
EL	Emergency battery pack (nominal 300 lumens, see Life Safety section)		■ 1	■ ¹
EL55	Emergency battery pack for T5/T5HO (nominal 390-700 lumens, see Life Safety section)		■ 1	■ ¹
MDR	Metal diffuser, round holes			
MDM	Metal diffuser, mini-slots			
SBL	Straight blade louver	•	-	
ALG	Acrylic litter guard	•	-	
Accessories for AVSM		AVSM 1x2	AVSM 1x4	AVSM 1x8
AVAC_	For grid mounting, adjustable cables non-feed individual or row fixtures	_		
AVACF_	For grid mounting, adjustable cables feed individual fixtures (18ga SJT)	•	_	•
AVACF_12AWG	For grid mounting, adjustable cables feed row fixtures (12 ga SJT)			
AVAC_DWL	For j-box or dry wall mounting, adjustable cables non-feed individual or row fixtures			
AVACF_DWL	For j-box or dry wall mounting, adjustable cables feed individual fixtures (18 ga SJT)		-	
AVACF_DWL12AWG	For j-box or dry wall mounting, adjustable cables feed row fixtures (12 ga SJT)		-	
SCY_	For j-box or dry wall mounting, stem mount non-feed or feed individual or row fixtures	•	•	
	Note: Fixtures supplied with 15/16"t-grid mounting hardware standard.			
Lengths for AVSM accessories	above (example: AVACF30)	AVSM 1x2	AVSM 1x4	AVSM 1x8
_30	3" to 30" below ceiling adjustable cable mounting			
_60	30" to 60" below ceiling adjustable cable mounting	•	-	
_96	60" to 96" below ceiling adjustable cable mounting	•	-	
_144	96" to 144" below ceiling adjustable cable mounting			
SCY4	4" below ceiling stem mounting	•	-	

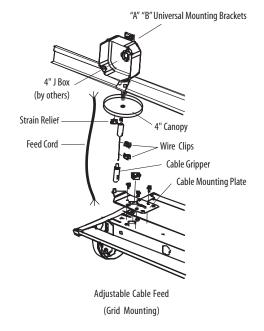
NOTES:

1. Cannot be field installed.



Acrylic litter guard is a panel of clear acrylic permanently hinged to each reflector. It effectively prevents litter from gathering in diffuser, yet does not interfere with relamping.







www.lithonia.com

Avante®

Sconces



Features

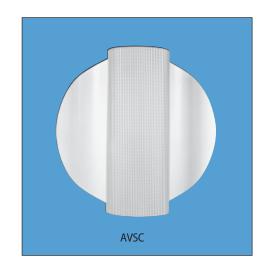
Sconces include corridor and accent lighting in hospitality, educational, health care and circulation areas.



UL Listed (standard). CSA Certified or NOM Certified (see Options). All Avante® sconces are ADA compliant.







Ordering Information

Model number

AVSP Perforated shield¹ AVSR Recessed perforated1 **AVSC** Cylinder

Number of lamps² 1

2³ Not included. Lamp type 13TT⁴

13DTT⁴ **CF18**⁵ 26DTT⁶ 26TRT⁶

32TRT⁶

Diffuser

MDR Metal diffuser, round holes MDM Metal diffuser, mini slots

Voltage 120

277

347 Others available: consult factory.

Example: AVSP 2 13TT MDR 120

Options4

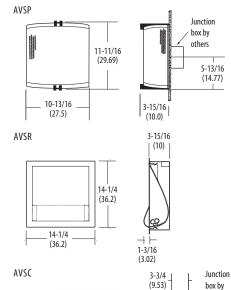
ALB Anodized aluminum backplate⁴

CSA Certified CSA NOM NOM Certified

ADA Compliant. Reflector options

ASR Aluminum stepped reflector⁷

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Dimming available.
- 2 Lamps not included.
- $3\quad {\sf Two-lamp\,available\,with\,AVSP\,models\,only}.$
- 4 Available with AVSP only.
- 5 Not available with AVSP.
- 6 Not available with AVSC.
- 7 Available with AVSC only.
- 8 1¼ (3.2) extension from wall.

	Lamp Designations				
Туре	Description				
13TT	13W T4 twin-tube, 2-pin, GX23 base				
13DTT	13W quad-tube, 4-pin electronic ballast,				
	G24q-1 base				
CF18	18W twin-tube T5				
26DTT	26W quad-tube, 4-pin				
26TRT	26W tri-tube, 4-pin				
32TRT	32W tri-tube, 4-pin				

	Availability and Dimensions							
Model number	Number of lamps	Lamp type	Width in.(cm)	Depth in.(cm)	Length in.(cm)			
AVSP	2	13TT, 13DTT, 26DTT	1013/16 (27.5)	315/16 (10.0)	1013/16 (27.5)			
AVSR ⁸	1	CF18, 26DTT, 26TRT, 32TRT	14¾ (37.5)	53/16 (13.2)	14¾ (37.5)			
AVSC	1	CF18	12 ⁷ / ₈ (32.7)	3¾ (9.5)	131/8 (33.3)			



13-1/8 (33.33)

13-1/8 (33.33)

7-7/8 (20.0)

Provides high performance, uniform, wall illumination. Highlights merchandise, artwork and signage.

Features

Recessed fluorescent wallwash system provides energy-efficient accent lighting.

Provides maximum wall illumination with minimum brightness.

Eliminates hot spots, scalloping and shadows on vertical surfaces.

Highlights artwork, signage and merchandise.

High performance — 92% of light output illuminates wall. Asymmetric-throw reflector completely surrounds lamp cavity.

Choice of one or two T5 or T5H0 lamps or compact lamp versions.

Ballast accessible from room side.

Reversible end trim accommodates both grid and screw-slot ceiling systems.

GF trim provides ceiling-tile support trims on long sides, grid trim on ends. Continuous row (grid trim only) or unit installation.

T-bar hold-down clips supplied standard. DGA accessory available to provide trim flange and fixture support in plaster or plasterboard ceilings. For use with G trim fixture.

Listings

UL Listed (standard). CSA Certified (see Options).



WW



Example: WW G 2 32 120 IRLS GEB

Ordering Information

Series

WW 12" wide

For tandem double-length
unit, add prefix T.

Example: TWW

Trim type

G Lay-in grid¹

GF Grid flanged²

ST Screw slot

Number of lamps

1
2³
Not included.

17 17W T8 (24")
32 32W T8 (48")
14T5 14W T5 (22")
24T5H0 24W T5 (22")
CF40 40W TT5 RS (24")
CF50 50W TT5 RS (24")
28T5 28W T5 (46")
54T5H0 54W T5 (46")

Lamp type Voltage

17W T8 (24") 120

32W T8 (48") 277

14W T5 (22") 347

24W T5 (22") MVOLT*

40W TT5 RS (24") others available; consult factory.

28W T5 (46") *120-277V.

54W T5 (46") Must specify GEB10IS.

Reflector finish

IRLS Low iridescent specular silver

IRLD Low iridescent diffuse silver

Options

GEB Electronic ballast, ≤20% THD
GEB10IS T8 electronic ballast, ≤10%
THD, instant start

GEB10RS T8 electronic ballast, ≤10%
THD, rapid start
CSA CSA Certified

Seepages 109 for others.

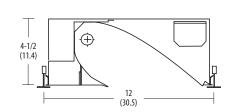
NOTES:

- 1 Use G trim plus DGA accessory for fixture–trim flange and fixture support in plaster or plasterboard ceilings.
- 2 Flanged sides, grid ends used in grid applications only.
- 3 2-lamp T5 and T5HO only.
- 4 Insert fixture width and length (in feet). Example: **DGA12.**

Accessories	(Order separately)
DGA	Flanged grid to drywall adapter, unit installation ⁴

	Availability and Dimensions								
Series	Nominal length	Lamps per cross section	Lamps per fixture	Lamp type	Height in.(cm)				
WW	2'	1	1	17, CF40, CF50, 14T5, 24T5H0	4½ (11.4)				
WW	4'	1	1	32, 28W T5, 54W T5H0	4½ (11.4)				
TWW	4'	1	2	CF40, CF50	4½ (11.4)				

Dimensions are shown in **inches (centimeters)** unless otherwise noted.





Recessed Perimeter System

RP



Intended Use

Delivers wall illumination for continuous recessed perimeter lighting applications. Provides conformable corridor and effective accent lighting.

Features

Continuous recessed wallwash lighting, available in any run length.

Full range of corner angles.

Choice of one or two lamps, staggered strip or butt strip electrical, optional internal reflector and a wide range of shielding for application flexibility.

Available in choice of air function.

Compatible with virtually all ceiling types.

Single-circuit, plug-in system standard. Facilitates

installation and prevents field miswiring. Two-circuit plug-in available.

Parabolic louvers are cantilevered from ceiling side of housing to allow for irregularities in wall surfaces.

Matches appearance of Paramax® family fixtures.

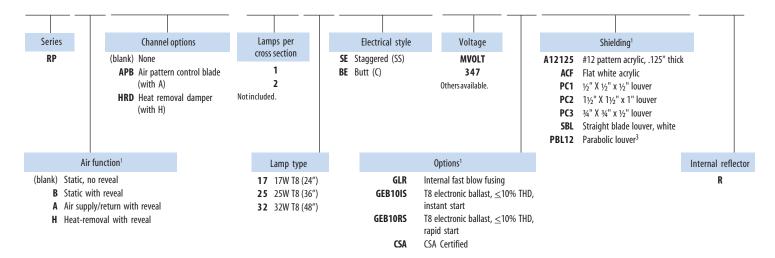
Listings

UL Listed (standard). CSA Certified (see Options).

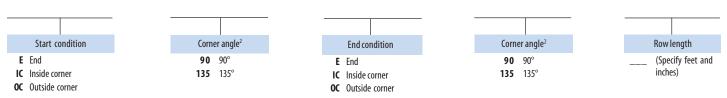
Example: RP 2 32 SE MVOLT GEB10IS SBL

IMPORTANT: Specify a separate catalog number for each RP run length by designating both the *product information* and the *row takeoff information* below. Be sure measurements and corner conditions are specified on a continuous path around the proposed system.

Ordering Information



Row Takeoff Information



- $1\quad \hbox{Others available. Consult factory.}$
- 2 Available only with IC or OC.



Recessed louvered (or lensed) architecturally styled products provide linear illumination for retail and other indoor applications.

Features

Narrow 6", 8", 9" and 12" linear products for single or continuous-row applications. NAT models in 2', 3' and 4' lengths. CNAT models suitable for continuous-row applications in sizes up to 8'.

Up to 2" deep parabolic louver available in choice of louver finish. Other shielding types available.

Compatible with most ceiling types. See page 107.

Listings

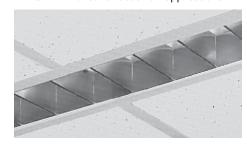
UL Listed (standard). CSA Certified or NOM Certified (see Options).

NAT CNAT

NAT – For single-unit applications



CNAT – For continuous-row applications



Example: 8NAT G 1 32 203LD MVOLT GEB10IS

Ordering Information

Mounting Number Lamp type Voltage Options Series of lamps 17 17W T8 (24") MVOLT T8 electronic ballast, \leq 10% THD, GEB10IS 6NAT 6" wide Lay-in grid 1 25 25W T8 (36") 347 instant start Flanged (see chart 8NAT 8" wide 2 GEB10RS T8 electronic ballast, ≤10% THD, 9NAT 9" wide below) 32 32W T8 (48") Others available; consult factory. rapid start Grid ends, Not included. NAT 12" wide CSA CSA Certified flanged sides1 6CNAT 6" wide NOM NOM Certified 8CNAT 8" wide See page 109 for others. 9CNAT 9" wide CNAT 12" wide For CNAT tandem double length unit and double cells, add prefix T. Example: T8CNAT. Louver Louver blade Louver finish³ OR Layin diffuser type spacing LD Low iridescent anodized semi-specular A12 #12 pattern acrylic **15** 1.5" louver 2 2" center-to-center² A19 #19 pattern acrylic, .156" thick LS Low iridescent anodized specular silver 20 2" louver **3** " center-to-center

NOTES:

PSG9

- 1 Available in NAT models only.
- $2\quad 2" spacing available on 1.5" louver depth only.$
- 3 All lenses and louvers lift and shift.
- 4 T (tandem) units use two louvers.

Row Information For NAT, Flanged Mounting Only (Add suffix to catalog number)

CRE Trim for NAT continuous row end. Two required per row.

CRM Trim for NAT continuous row middle. Quantity per row is number of fixtures in row less two CRE.

(Order separately)

_CNATGEP

_CNATFEP

One pair end plates for CNAT with G trim. End plate trim supports ceiling tile. Order one pair per row. Specify 6 (6"), 8 (8"), 9 (9") or leave blank for 12". One pair end plates for CNAT with F trim. Order one pair per row. Specify 6 (6"), 8 (8"), 9 (9") or leave blank for 12".

	Availability and Dimensions						
Series	Nominal length	Number of lamps	Lamp type	Number 2" spacing	of cells 3"spacing	Height in.(cm)	
	2' (Standard)	1, 2	17	12	8	6 (15.2)	
NAT/CNAT	3' (Standard)	1, 2	25	18	12	6 (15.2)	
	4' (Standard)	1, 2	32	24	16	6 (15.2)	
TCNAT	6' (Tandem) ⁴	1, 2	25	18x2 ⁴	12x2 ⁴	6 (15.2)	
ICNAI	8' (Tandem) ⁴	1, 2	32	24x2 ⁴	16x2 ⁴	6 (15.2)	



Paramax®/ Optimax®

Benchmark of Enduring Quality



The Paramax® Series, today's premier family of parabolic luminaires, offers a comprehensive selection of recessed and surface-mounted parabolics. A marriage of aesthetics and performance, Paramax® fixtures are the standard by which other parabolics are measured.

Design Flexibility

The versatility of the Paramax® Series is further enhanced by a wide variety of optional configurations and companion luminaires, such as the RP architectural perimeter system and the NAT and CNAT narrow aperture series. Paramax® models are available for up to eight lamps with a choice of louver configurations, a full range of air functions and trim styles to fit virtually every type of ceiling system.

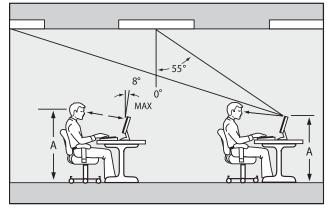
Paramax® 2PM3N Luminaires

The Paramax® 2PM3N Series features innovative, state-of-the-art design that provides optimal performance with T8 lamps and electronic ballasts. The 2PM3N louver is engineered for maximum efficiency while maintaining excellent optical control and visual comfort. The housing is only 4½" deep, which allows installation in shallow plenums and features a superior paint finish, hemmed edges for ease of handling and integral T-bar retention.

Optimax® Series Controls Glare

Optimax® fluorescent lighting system eliminates objectionable PC screen glare¹ caused by luminaire reflections. The key to Optimax® performance is the combination of an optimum shielding design that controls light at glare-producing angles and precise optical assemblies made of specially formulated, low iridescent, highly specular anodized aluminum.

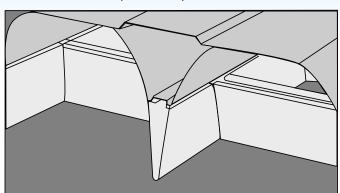
As a result, Optimax® fixtures encourage productivity by eliminating the reflected luminaire screen glare that workers find uncomfortable.



1 The Optimax® Series effectively controls reflected glare in all workstations that meet ANSI/HFS Standard No. 100-1988 for operator and computer screen positions. All Optimax® fixtures meet criteria established by the lighting industry for fixture brightness in PC applications, including IES RP-1.

Designing with Optimax® Luminaires

The Optimax® Series was created to provide appropriate lighting levels for large open office areas where PCs are used. Optimax® fixtures are available in a wide variety of sizes, air-handling functions, ceiling trim types and surface-mounted configurations that allow you to choose the appropriate luminaire for a specific application need. Small office areas and spaces that are adjacent to open areas are ideal for low-brightness Paramax® fixtures as a complement to Optimax® fixtures.



Unique Louver Design — Carefully formed louvers are shaped in a true tangential parabola for superior light control. Contoured housing (2'x4' and 20"x4' models) continues the parabolic shape of the louver to envelop the lamp in a fully reflective cavity. Precise fit between housing and louver eliminates light leaks, minimizes objectionable shadows and bright spots.

Full Selection of Sizes

The Paramax® Series and the Optimax® Series feature a wide range of sizes and configurations. Standard models from 1'x2' wide through 4'x4' are offered, including 20"-wide versions for use in modular ceiling systems. Custom and metric sizes also can be specified, making Paramax® and Optimax® fixtures available for every type of commercial application.

Available S	izes
-------------	------

	PM4	2PM3N	PM3	PM2	HPM	PM3X	PM0	PMOX
1'x2'								
1'x4'								
2'x2'								
2'x4'								
4'x4'								
20"x4'								
Metric								



Full family of light-controlling parabolic luminaires designed to control screen glare in VDT open office environments.

Features

Compound parabolic louver provides optimum light control.

Design optimized for use with T8 lamps and electronic ballasts.

Latest development in aluminum finishing minimizes louver iridescence. Ideal for use with triphosphor lamps.

Only listed lamp and cell configurations will provide Optimax® light control performance.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard on most models.

Available in metric sizes. Consult Lithonia Lighting sales representative.

Surface-mounted versions also available. See page 52.

Listing

UL Listed (standard). CSA Certified or NOM Certified (see Options).

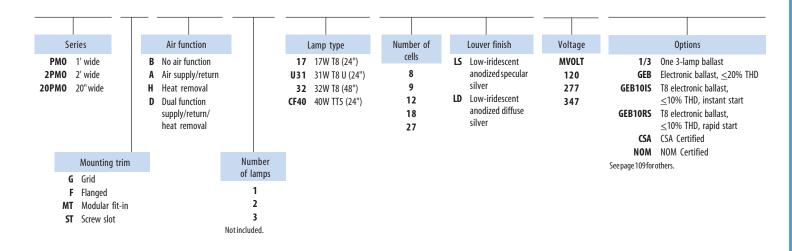
PMO

Optimax®



Ordering Information

Example: 2PMO G B 3 32 27LS MVOLT 1/3 GEB10IS



Availability and Dimensions							
Nominal size	Series	Number of lamps	Lamp type	Number of cells	Height ² in. (cm)		
1'x4'	PMO PMO	1 2	32 32	9 (1x9) 9 (1x9)	7¼ (18.4) 7¼ (18.4)		
2'x2'	2PM0 2PM0 2PM0	3 2 2	17, U31, CF40 17, U31, CF40 17, U31, CF40	12 (3x4) 8 (2x4) 12 (3x4)	6 (15.2) 6 (15.2) 6 ½ (16.5)		
	20PM0(FP) ¹	2	17, U31, CF40	8 (2x4)	6 (15.2)		
2′x4′	2PM0 2PM0	3 2	32 32	27 (3x9) 27 (3X9)	6 (15.2) 6 ¹ / ₁₆ (17)		
	2PM0 20PM0(FP) ¹	2	32 32	18 (2x9) 18 (2x9)	6 (15.2) 6 (15.2)		
20"x4'	20PM0	2	32	18 (2x9)	6 (15.2)		

- 1 **2FP2** and **4FP2** accessories available to fit 2' wide grid. Order separately.
- $2 \quad \mathsf{Some} \, \mathsf{options} \, \mathsf{increase} \, \mathsf{fixtue} \, \mathsf{depth}. \\ \mathsf{Consult} \, \mathsf{Lithonia} \, \mathsf{Lighting} \, \mathsf{sales} \, \mathsf{representative} \, \mathsf{if} \, \mathsf{plenum} \, \mathsf{depth} \, \mathsf{is} \, \mathsf{a} \, \mathsf{factor}.$



9PMO

Optimax®



Not included

Intended Use

Ideal for corridors, stack lighting or wallwash indoor applications where superior glare control is important.

Features

Superior performance provided with a 9" aperture design.

Available in three distribution patterns, symmetric, asymmetric and bi-asymmetric, for efficient and precise illumination.

Asymmetric distribution provides uniform wall-wash for improved spatial brightness and visual brightness.

Symmetric distribution meets the industry's most rigorous standards for VDT lighting applications.

Bi-asymmetric distribution delivers highangle light distribution on two vertical surfaces parallel to luminaire.

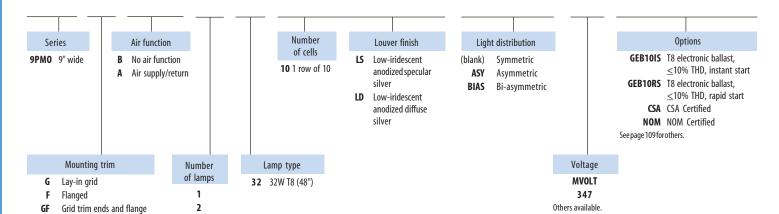
Complements design and style of other Optimax® and Paramax® products.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Grid trim ends, one grid side and one flange side



Availability and Dimensions							
Nominal size	Series	Number of lamps	Lamp type	Number of cells	Height in.(cm)*		
9"x4′	9PM0	1 2	32 32	10 10	7½ (19.1) 7½ (19.1)		

Example: 9PMO G B 2 32 10LD ASY MVOLT GEB10IS

 $\hbox{*Consult factory for options to reduce overall fixture height.}$



High-performance parabolic luminaires for superior light control, visual comfort and light cutoff in open area indoor applications.

Features

Contoured housing for superior light control.

Design optimized for use with T8 lamps and electronic ballasts.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard.

Premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

Mitered corners and interlocking construction assure precise parabolic shape.

Choice of cell configuration and lamping.

Compatible with most common ceiling types and air functions. For complete descriptions, see pages 107, 111.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

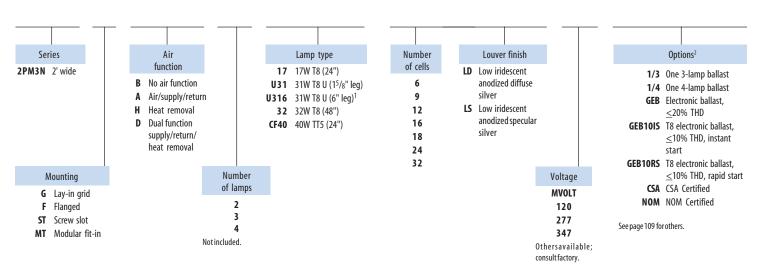
2PM3N

Paramax®



Example: 2PM3N G B 3 32 18LD MVOLT 1/3 GEB10IS

Ordering Information



			Availability and Dir	nensions	
Nominal size	Series	Number of lamps	Lamp type	Number of cells ³ (rows x number in row)	Height² in. (cm)
		2	17, U31, U316, CF40	6 (2x3), 9 (3x3), 12 (4x3), 16 (4x4)	4½ (11.4)
		2	U316	6(2x3), 12(3x4)	4½ (11.4)
2'x2'	2PM3N	3	17, U31, CF40	9 (3x3), 16 (4x4)	4½ (11.4)
		3	17, CF40	12(3x4)	4½ (11.4)
		4	17, CF40	9 (3x3), 12 (4x3), 16 (4x4)	4½ (11.4)
		2	32	12 (2x6), 16(2x8), 24(4x6)	4½ (11.4)
2'x4' 2PM3N	2DM2N	3	32	18 (3x6), 24(3x8)	41/2 (11.4)
	ZFIVIDIV	4	32	12(2x6), 16(2x8), 18(3x6),	41/2 (11.4)
		4	32	24(4x6), 32 (4x8)	4½ (11.4)

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
- 3 Popular cell configurations are shown in **bold** type.





PM3

Paramax®



Intended Use

High performance parabolic luminaires for superior light control, visual comfort and light cut-off in open area indoor applications.

Features

Contoured housing for superior light control.

Design optimized for use with T8 lamps and electronic ballasts.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard on most models.

Premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

4

6

8

9

12

16

18

24 36

64

Mitered corners and interlocking construction assure precise parabolic shape.

Choice of cell configuration and lamping.

Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 107, 111.

Surface-mounted versions also available. See page 53.

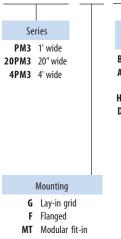
Metric sizes also available. Consult Lithonia Lighting sales representative.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: PM3 G B 2 32 8LD MVOLT GEB10IS

Ordering Information



Air function

- **B** No air function
- Air supply/ return
- Heat removal **Dual function** supply/return/ heat removal

Number of lamps 2

3 6

8 Not included.

Lamp type

17W T8 (24") 17 **U31** 31W T8 U (15/8" leg) **U316** 31W T8 U (6" leg)

32 32W T8 (48") CF40 40W TT5 (24")

Louver finish Number of cells LD Low iridescent 3 anodized diffuse

LS Low iridescent anodized specular silver

silver

MVOLT 120 277 347

Others available.

Voltage

Options 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast

GEB Electronic ballast, <20% THD GEB10IS T8 electronic ballast, ≤10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start

CSA CSA Certified NOM NOM Certified See page 109 for others.

- 1 Popular cell configurations are shown in **bold** type.
- 2 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.

			Availability and Di	mensions	
Nominal		Number	Lamp	Number of cells ¹	Height ²
size	Series	of lamps	type	(rows x number in row)	in. (cm)
1'x2'	PM3	1, 2	17, U31, CF40	3(1x3), 4(1x4), 6 (2x3), 8(2x4)	7¼ (18.4)
I AL	11115	1	U316	3(1x3), 4(1x4), 6 (2x3), 8(2x4)	71/4 (18.4)
1'x4'	PM3	1, 2, 3	32	6(1x6), 8 (1x8), 9 (1x9)	71/4 (18.4)
	5	2	32	12(2x6), 16 (2x8)	71/4 (18.4)
		2	32	12 (2x6), 16(2x8), 18(3x6), 24(3x8)	5 ¹⁵ / ₁₆ (15.1)
20"x4'	20PM3	3	32	18 (3x6), 24 (3x8)	5 ¹⁵ / ₁₆ (15.1)
		4	32	12 (2x6), 16(2x8), 18(3x6), 24(3x8)	5 ¹⁵ / ₁₆ (15.1)
4'x4'	4PM3	6	32	36 (6x6), 64 (8x8)	6½ (16.5)
T AT	-11 INI3	8	32	36 (6x6), 64 (8x8)	6½ (16.5)



Deep-cell parabolic luminaires for use in openarea indoor applications and electronic offices where optical control, visual comfort and light cut-off are important.

Features

4"-deep, premium-grade aluminum louvers in choice of finishes, shipped in thermally sealed polyethylene wrapper.

Design optimized for use with T8 lamps and electronic ballasts.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard.

Mitered louver corners and interlocking construction assure precise parabolic shape.

Choice of cell configuration and lamping.

Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 107, 111.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Paramax®



Ordering Information

ST Screw slot

Series Air Number Louver finish Lamp type function of cells **2PM4** 2' wide **17** 17W T8 (24") Low-iridescent **B** No air function 6 anodized diffuse **U31** 31W T8 U 9 Air supply/return silver (15/8" leg)Heat removal 12 Low-iridescent **U316** 31W T8 U anodized specular **Dual function** 16 $(6" leg)^1$ silver supply/return/ 18 32 32W T8 (48") removal 24 CF40 40W TT5 (24") Number of lamps Mounting G Lay-in grid Flanged 3 MT Modular fit-in Not included.

Example: 2PM4 G B 3 32 18LD MVOLT 1/3 GEB10IS

Voltage

MVOLT

120

277

347

Others available:

consult factory.

	Options			
1/3	One 3-lamp ballast			
1/4	One 4-lamp ballast			
GEB	Electronic ballast, \leq 20% THD			
GEB10IS T8 electronic ballast, ≤10%				
	THD, instant start			
GEB10RS	T8 electronic ballast, \leq 10%			
	THD, rapid start			
CSA CSA Certified				
NOM	NOM Certified			
See page 109 for others.				

	Availability and Dimensions						
Nominal		Number	Lamp	Number of cells ²	Height ³		
size	Series	of lamps	type	(rows x number in row)	in. (cm)		
		2	U316	6(2x3), 9 (3x3), 12(3x4), 16 (4x4)	6 (15.2)		
2'x2'	2PM4	2	17, U31, CF40	6(2x3), 9 (3x3), 12(4x3), 16 (4x4)	6 (15.2)		
2 12	21 1117	3	17, U31, CF40	9 (3x3), 12(3x4), 16(4x4)	6 (15.2)		
		4	17, CF40	6(2x3), 9(3x3), 12(4x3), 16 (4x4)	6 (15.2)		
		2	32	12 (2x6), 16(2x8), 18(3x6), 24(4x6), 32(4x8)	6 (15.2)		
2'x4'	2PM4	3	32	18 (3x6), 24 (3x8), 32(4x8)	6 (15.2)		
		4	32	12(2x6), 16(2x8), 18(3x6), 24(4x6), 32 (4x8)	6 (15.2)		

- 1 Not available on 3-lamp fixtures. Use U31.
- 2 Popular cell configurations are shown in **bold** type
- Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



PM₂

Paramax®



Intended Use

Louvered parabolic luminaires for optical control in general office environments and open indoor spaces.

Features

Contoured housing for superior light control.

Design optimized for use with T8 lamps and electronic ballasts.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard.

2" deep premium-grade aluminum louvers shipped in thermally sealed polyethylene wrapper.

Mitered louver corners and interlocking construction assure precise parabolic shape.

Choice of cell configuration and lamping.

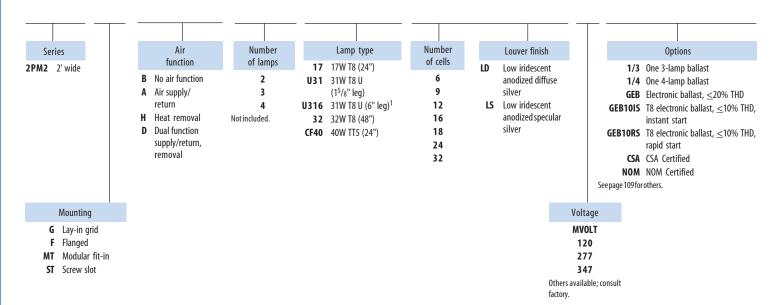
Compatible with virtually all ceiling types and air functions. For complete descriptions, see pages 107, 111.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: 2PM2 G B 3 32 18LD MVOLT GEB10IS

Ordering Information



- 1 Not available on 3-lamp fixtures. Use U31.
- $2\quad Popular cell configurations are shown in \textbf{bold}\ type.$
- $3\quad \mathsf{Some}\,\mathsf{options}\,\mathsf{increase}\,\mathsf{fixture}\,\mathsf{depth}.\,\mathsf{Consult}\,\mathsf{Lithonia}\,\mathsf{Lighting}\,\mathsf{sales}\,\mathsf{representative}\,\mathsf{if}\,\mathsf{plenum}\,\mathsf{depth}\,\mathsf{is}\,\mathsf{a}\,\mathsf{factor}.$

			Availability and Dimensions	
Nominal	Number	Lamp	Number of cells ²	Height ³
size	of lamps	type	(rows x number in row)	in. (cm)
2'x2'	2	U316	6(2x3), 9 (3x3), 12(3x4), 16 (4x4)	4½(11.4)
	2	17, U31, CF40	6(2x3), 9 (3x3), 12(4x3), 16 (4x4)	41/2(11.4)
	3	17, U31, CF40	9 (3x3), 12(3x4), 16(4x4)	4½(11.4)
	4	17, CF40	6(2x3), 9(3x3), 12(4x3), 16 (4x4)	41/2(11.4)
	2	32	12 (2x6), 16(2x8), 18(3x6), 24 (4x6), 32(4x8)	4½(11.4)
2'x4'	3	32	18 (3x6), 24 (3x8), 32(4x8)	4½(11.4)
	4	32	12(2x6), 16(2x8), 18(3x6), 24 (4x6), 32 (4x8)	41/2(11.4)



High performance parabolic troffer for office lighting systems in VDT applications.

Features

High-efficiency 1'x4' Paramax® fixtures.

Lamps stacked vertically for uniform louver brightness in multi-level switching applications.

Design optimized for use with T8 lamps and electronic ballasts.

Hemmed sides and ends provide smooth edges for easy handling during installation.

Integral T-bar safety clips standard.

Choice of louver finish and air function.

Compatible with virtually all ceiling types. See page 107.

Available in surface-mount and metric-size versions. Consult Lithonia Lighting sales representative.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

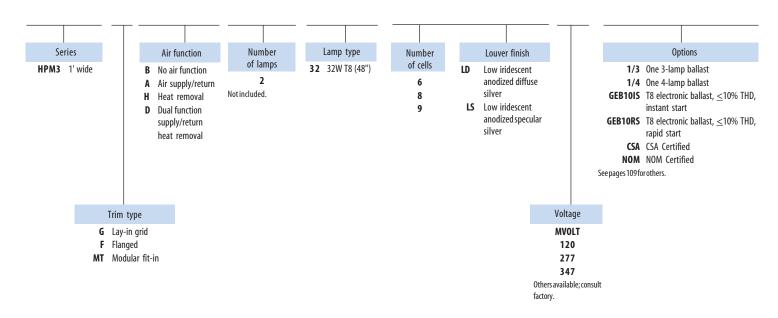
HPM3

Paramax®



Ordering Information

Example: HPM3 G B 2 32 8LD MVOLT GEB10IS



Availability and Dimensions							
Nominal		Number	Lamp	Number of cells ¹	Height		
size	Series	of lamps	type	(rows x number in row)	in. (cm)		
1'x4'	HPM3	2	32	6(1x6), 8 (1x8), 9 (1x9)	7¼ (18.4)		

NOTE

1 Popular cell configurations are shown in **bold** type.



SP8

Static



Intended Use

Specification premium, high performance, static T8 luminaires provide general illumination for recessed indoor applications; ideal for restricted plenum spaces.

Features

Innovative low-profile design optimized around T8 lamps, low-profile electronic ballasts and T8 compact sockets.

Hemmed sides provide smooth edges for easy handling during installation.

Standard steel door frame features precise flushmitered corners.

Unique door frame design delivers a premium extruded appearance.

Housing and door frame interface provides a superior mechanical light seal without the use of foam gasketing. Standard latch provides spring action. Door latches and hinges from either side.

Improved performance – higher fixture efficiency and reduced lamp image.

Integral T-bar safety clips are standard; no need to install separate clips.

Aluminum door frames available, flush or regressed.

Compatible with virtually all ceiling types. Field trim modification kits also available. See page 107

U.S. patents - 6,210,025; 6,231,213; 6,213,625; 2,288,471.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Options

One 3-lamp ballast

One 4-lamp hallast

THD, instant start

CSA Certified

NOM Certified

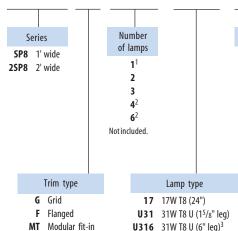
T8 electronic ballast,

≤10% THD, rapid start

Electronic ballast, ≤20% THD

T8 electronic ballast, ≤10%

Ordering Information



U316 31W T8 U (6" leg)³ 32W T8 (48")

CF40 40W TT5 (24")

Example: 2SP8 G 3 32 A12 MVOLT 1/3 GEB10IS

1/3

1/4

GEB10IS

GEB10RS

CSA

NOM

See pages 106,109 for others.

Diffuser type

A12 #12 pattern acrylic⁴
A12125 #12 pattern acrylic, .125" thick

RA125 #12 pattern acrylic, .125" thick (reverse apex)

A19 #19 pattern acrylic, .156" thick

K20 #20 pattern acrylic, .140" thick

84Y Holophane 8224 with overlay

PC1S 1/2"x1/2"x1/2" plastic cube louver, silver

 $\textbf{PC2S} \hspace{0.5cm} 1 \% "x1 \% "x1" \hspace{0.5cm} plastic \hspace{0.5cm} cube \hspace{0.5cm} louver, \hspace{0.5cm} silver \hspace{0.5cm} with \hspace{0.5cm} flange$

PC3S $\frac{3}{4}$ " $x\frac{3}{4}$ " $x\frac{1}{2}$ " plastic cube louver, silver

- 1 1-lamp model available in 1'X4' only.
- 2 4- and 6-lamp models available with 17W and 32W straight tubes only.
- 3 Not available on 3-lamp fixtures. Use U31.
- 4 Standard A12 diffuser has reverse apex technology.

		Availability a	nd Dimensions	
Nominal size	Series	Number of Lamps	Lamp type	Height in.(cm)
1′X4′	SP8	1,2,3	32	41/2 (11.4)
2'x2'	2SP8	2 3 4	17,U31, U316, CF40 17, U31, CF40 17	3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3)
2'x4'	2SP8	2, 3, 4, 6	32	311/16(9.3)



Complete selection of specification premium air-handling luminaires recommended for all general illumination recessed applications.

Features

Fully gasketed door frame with spring-action latches.

Full black reveal has floating door appearance.

Aluminum door frames available; flush or regressed. Air-flow control available with optional heat removal dampers and air pattern control blades.

Integral T-bar safety clips are standard on 1'x4', 2'x2' and 2'x4' fixtures. No need to install separate clips.

Compatible with virtually all ceiling types. See page 107. Field trim modification kits also available.

Some fixtures available in metric sizes. Contact Lithonia Lighting sales representative.

Listings

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options).

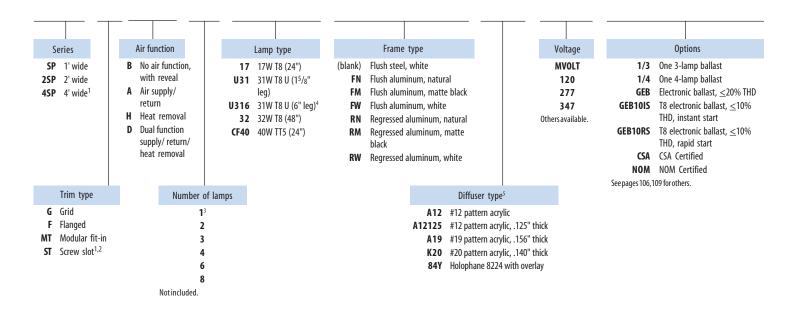


Air-Handling



Ordering Information

Example: 2SP G A 3 32 A12 MVOLT 1/3 GEB10IS



Availability and Dimensions							
Nominal size	Series	Number of lamps	Lamp type	Height ⁷ in. (cm)			
1′x4′	SP AIR	1, 2, 3	32	7¼ (18.4)			
2'x2'	2SP AIR	2 3 4	17, U31,U316, CF40 17, U31, CF40 17, CF40	4½ (11.4) 4½ (11.4) 4½ (11.4)			
2'x4'	2SP AIR	2, 3, 4	32	4½ (11.4)			
4'x4'	4SP AIR ^{4,6}	4, 6, 8	32	5 (12.7)			

- 1 Not available with flush steel door.
- 2 Consult factory for fixture depth.
- 3 1-lamp model available in 1'x4' only.
- 4 Not available on 3-lamp fixtures. Use U31.
 5 Center mullion standard on 4SP AIR. 4'x4' lens optional.
- 6 Integral T-bar clips not available. Use **LATC** option.
- 7 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.



Specification Premium Troffers

SP

Small-Cell Louvers Air-Handling



Intended Use

Specification premium air-handling luminaires recommended for all general illumination indoor applications.

Features

Premium-grade troffer with architectural small-cell aluminum louvers.

Choice of 1.5" and .75" deep cells.

Louver available in choice of low iridescent silver or low iridescent diffuse anodized finish.

Full black reveal and floating louver when air function is specified.

Integral T-bar clips standard on 1'x4', 2'x2' and 2'x4' fixtures. Eliminates the need to install separate clips.

Spring action latches standard.

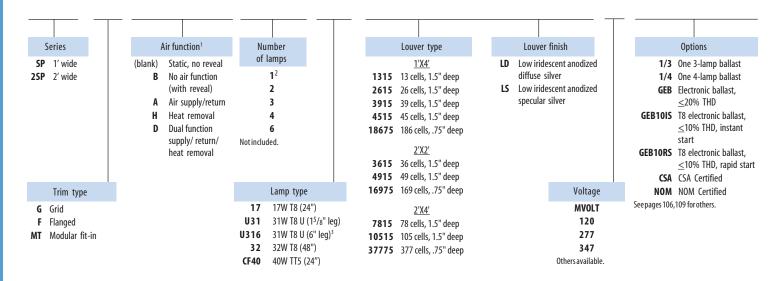
Some fixtures available in metric sizes. Contact Lithonia Lighting sales representative.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Example: 2SP G D 3 32 10515LD MVOLT 1/3 GEB10IS



- 1 Some options increase fixture depth. Consult Lithonia Lighting sales representative if plenum depth is a factor.
- 2 1-lamp model available in 1'x4' only.
- 3 Not available on 3-lamp fixtures. Use U31.

		Availability a	and Dimensions	
Nominal size	Series	Number of lamps	Lamp type	Height¹ in.(cm)
1'x4'	SP AIR	1, 2, 3	32	7¼ (18.4)
2'x2'	2SP AIR	2 3 4	17, U31, U316, CF40 17, U31, CF40 17, CF40	4½ (11.4) 4½ (11.4) 4½ (11.4)
2'v4'	2SD AIR	2346	37	41/5 (11.4)



Low-profile, static T8 luminaire provides general illumination for recessed indoor applications. Ideal for restricted plenums.

Features

Innovative low-profile design optimized around T8 lamps and low-profile electronic ballasts.

Hemmed sides provide smooth edges for easy handling during installation.

Standard steel door frame features precise flush mitered corners. Unique design delivers a premium extruded appearance.

Housing and door frame interface provides a superior mechanical light seal without the use of foam gasketing.

Standard latch provides spring action. Door latches and hinges from either side.

Improved performance – higher fixture efficiency.

Integral T-bar safety clips are standard - no need to install separate clips.

Aluminum door frames available, flush or regressed.

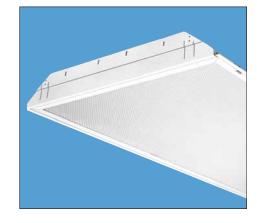
Compatible with most ceiling types. Field trim modification kits also available. See page 107.

U.S. patents - 6,210,025; 6,231,213; 6,213,625; 2,288,471.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Static



Ordering Information

Series Number of lamps GT8 1' wide 2GT8 2' wide 2 3 42 Not included. Lamp type Trim type **17** 17W T8 (24") (blank) Grid F Flanged

U31 31W T8 U (15/8" leg) **U316** 31W T8 U (6" leg)³

32 32W T8 (48") CF40 40W TT5 (24")3

Other

	Frame type					
olank)	Flush steel, white					
FN	Flush aluminum, natural					
FM	Flush aluminum, matte black					
FW	Flush aluminum, white					
RN	Regressed aluminum, natural					
RM	Regressed aluminum, matte black					
RW	Regressed aluminum, white					

Diffuser type

A12 #12 pattern acrylic

A12125 #12 pattern acrylic, .125" thick

A19 #19 pattern acrylic, .156" thick A15 #15 pattern acrylic, .200" thick

K20 #20 pattern acrylic, .140" thick

84Y Holophane 8224 with overlay

PC1S 1/2"x1/2"x1/2" plastic cube louver, silver

PC2S 11/2"x11/2"x1" plastic cube louver, silver with flange⁴

PC3S 34"x34"x1/2" plastic cube louver, silver

Example: 2GT8 4 32 A12 MVOLT 1/4 GEB10IS

Voltage		Options
MVOLT 120		One 3-lamp ballast One 4-lamp ballast
277	GEB	Electronic ballast, ≤20% THD
347	GEB10IS	T8 electronic ballast, ≤10% THD,
rs available.		instant start
	GEB10RS	T8 electronic ballast, \leq 10% THD, rapid start
	CSA	CSA Certified
	NOM	NOM Certified
	See pages 106,1	09 for others.

- 1 1- lamp model available in 1' X 4' only
- 4-lamp models available with 17W or 32W straight tube lamps only.
- Not available on 3-lamp fixtures. Use U31.
- Available with flush door frames only. Some 2x2 lamp and electrical combina $tions \, not \, available \, with \, PC2 \, louvers. \, Consult \, factory.$

	Availability and Dimensions						
Nominal size	Series	Number of lamps	Lamp type	Height in.(cm)			
1'x4'	GT8	1, 2, 3	32	4½ (11.4)			
2'x2'	2GT8	2 3 4	17, U31, U316, CF40 17, U31 17	3 ³ / ₁₆ (8.0) 3 ³ / ₁₆ (8.0) 3 ³ / ₁₆ (8.0)			
2'x4'	2GT8	2, 3, 4	32	33/16 (8.0)			





PMOX

Optimax®



Intended Use

Surface-mounted parabolic luminaires designed to control screen glare in VDT open office envi-

Features

Optimax® light-controlling optical assembly.

Surface or stem-mounting. A perfect companion to Optimax® recessed luminaires.

Floating louver appearance with full black reveal.

Standard exterior finish is gloss white.

Provides optimum light control to eliminate objectionable glare on VDT screens caused by reflections from overhead lighting.

Full top cover available.

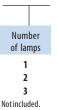
Listings

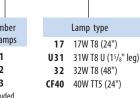
UL Listed (standard). CSA Certified or NOM Certified (see Options).

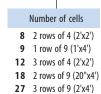
Example: 2PMOX 3 32 27LS MVOLT GEB10IS

Ordering Information



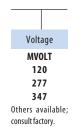








silver



	Options
1/3	One 3-lamp ballast
GEB	Electronic ballast, ≤20% THD
GEB10IS	T8 electronic ballast, ≤10%
	THD, instant start
GEB10RS	T8 electronic ballast, ≤10%
	THD, rapid start
CSA	CSA Certified
NOM	NOM Certified
See page 112 for	others.

		Availa	ability and Dimension	s	
Nominal size	Series	Number of lamps	Lamp type	Number of cells (rows x number in row)	Height in.(cm)
4/ 4/	PMOX	1	32	9 (1x9)	71/4 (18.4)
1′x4′	PMOX TPMOX	1	32 (2)CF40	9 (1x9) 9 (1x9)	7¼ (18.4) 7¼ (18.4)
	2PM0X	3	17, U31, CF40	12 (3x4)	61/8 (15.6)
2'x2'	2PM0X	2	17, U31, CF40	8 (2x4)	61/8 (15.6)
	2PM0X	2	17, U31, CF40	12 (3x4)	61/8 (15.6)
	2PM0X	3	32	27 (3x9)	61/8 (15.6)
2'x4'	2PM0X	2	32	18 (2x9)	61/8 (15.6)
	2PM0X	2	32	27 (3x9)	61/8 (15.6)



High-performance surface-mounted parabolic luminaires for superior light control, visual comfort and light cutoff in open area indoor applications.

Features

Sturdy steel housing with Paramax® 3" premium-grade aluminum louver.

For surface or stem mounting. A perfect companion to Paramax® recessed luminaires.

Choice of size, lamping, cell configuration and louver finish.

Floating louver appearance with full black reveal.

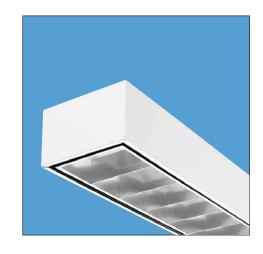
Standard exterior finish is gloss white. Full top cover available.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

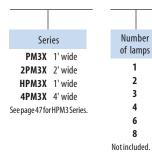
PM3X

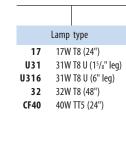
Paramax®



Ordering Information

Example: 2PM3X 3 32 18LD MVOLT 1/3 GEB10IS





Number		Louver finish
of cells	LD	Low iridescent anodized semi-specular silver
4 6 8 9	LS	Low iridescent anodized specular silver
12 16		
18 24		
32 36		
6.1		

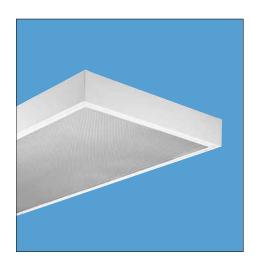
Voltage		Options
MVOLT 120 277 347 Others available; consult factory.	1/4 GEB GEB10IS GEB10RS	One 3-lamp ballast One 4-lamp ballast Electronic ballast, ≤20% THD T8 electronic ballast, ≤10% THD, instant start T8 electronic ballast, ≤10% THD, rapid start CSA Certified
	NOM	NOM Certified
	See page 112 for	others.

			Availabilit	y and Dimensions	
Nominal size	Series	Number of lamps	Lamp type	Number of cells ¹ (rows x number in row)	Height ² in.(cm)
1′x4′	PM3X	1, 2, 3 2	32 32	6(1x6), 8 (1x8), 9 (1x9) 12(2x6), 16 (2x8)	7 ¹ / ₁₆ (17.9) 7 ¹ / ₁₆ (17.9)
2'x2'	2PM3X	2 2 3 4	U316 17, U31, CF40 17, U31, CF40 17, CF40	6(2x3), 9(3x3), 12(3x4), 16(4x4) 6(2x3), 9(3x3), 12(4x3), 16(4x4) 9(3x3), 12(3x4), 16(4x4) 9(3x3), 12(4x3), 16(4x4)	6 ¹ / ₈ (15.6) 6 ¹ / ₈ (15.6) 6 ¹ / ₈ (15.6) 6 ¹ / ₈ (15.6)
2'x4'	2PM3X	2 3 4	32 32 32	12 (2x6), 16(2x8), 18(3x6), 24(4x6), 32(4x8) 18 (3x6), 24 (3x8), 32(4x8) 12(2x6), 16(2x8), 18(3x6), 24(4x6), 32 (4x8)	6 ¹ / ₈ (15.6) 6 ¹ / ₈ (15.6) 6 ¹ / ₈ (15.6)
4'x4'	4PM3X	6 8	32 32	36 (6x6), 64(8x8) 36(6x6), 64 (8x8)	6½ (16.5) 6½ (16.5)

- 1 Popular cell configurations are shown in **bold** type.
- $\label{lem:consultLithoniaLighting} 2 \quad Some options increase fixture depth. Consult Lithonia Lighting sales representative if depth is a factor.$



M



Intended Use

Surface or stem-mounted lensed fixture for general illumination in commercial offices and retail indoor applications.

Features

Die-formed, cold-rolled steel housing finished with baked white enamel.

Standard door is fully gasketed flush steel with sturdy tee hinges and opposing, rotary-action cam latches.

Spring-loaded latches optional.

Aluminum doors available, flush or regressed with choice of finish.

For surface or stem mounting, unit or row installation.

For unit mounting on stems: Minimum of two mounting stems required on 1'x4' models (four

required on 3-lamp models). Four stems required on 2'x4' models.

For row mounting on stems: Use half the number of stems required for unit mounting except on last fixture in row. Example: on 2'x4' two-lamp and four-lamp fixtures, use two stems per fixture plus two per row.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Example: 2M 2 32 RW A19 MVOLT GEB10IS

Voltage

MVOLT

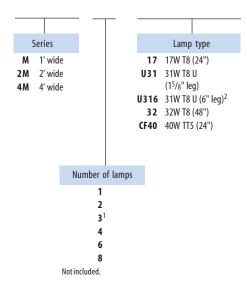
120

277

347

Others available.

Ordering Information



Frame type

(blank) Flush steel, white
FN Flush aluminum, natural
FM Flush aluminum, matte black
FW Flush aluminum, white
RN Regressed aluminum, natural
RM Regressed aluminum, matte black
RW Regressed aluminum, white

Diffuser type

A12 #12 pattern acrylic
A12125 #12 pattern acrylic, .125"
thick

A19 #19 pattern acrylic, .156"
thick

PC15 ½"X½"x½" plastic cube louver, silver

Centermullion standard on 4'x4' models.

Options

1/3 One 3-lamp ballast
1/4 One 4-lamp ballast
GEB Electronic ballast, ≤20% THD
GEB10IS T8 electronic ballast, ≤10% THD, instant start
GEB10RS T8 electronic ballast, ≤10% THD, rapid start
CSA CSA Certified (347V only)

NOM NOM Certified
Seepage 112 for others.

- $1\quad Stem\,mounting\,is\,not\,recommended\,for\,3-lamp\,2x4\,models.$
- 2 6" leg spacing standard on 2-lamp models. Not available on 3-lamp models; specify U31.

			Availability and Dim	ensions		
Nominal size	Series	Number of lamps	Lamp type	Width in.(cm)	Depth in.(cm)	Length in.(cm)
1'x4'	М	1, 2, 3	32	12 (30.5)	3¾ (9.5)	48 (121.9)
2'x2'	2M	1, 2 2, 3 4	U316 17, U31, CF40 17, CF40	24 (61.0) 24 (61.0) 24 (61.0)	3¾ (9.5) 3¾ (9.5) 3¾ (9.5)	24 (61.0) 24 (61.0) 24 (61.0)
2'x4'	2M	2, 3, 4	32	24 (61.0)	3¾ (9.5)	48 (121.9)
4'x4'	4M	4, 6, 8	32	48 (121.9)	3¾ (9.5)	48 (121.9)



Use for direct lighting in applications such as schools or all-purpose facilities.

Features

Fits standard 4'x4' inverted tee grid opening.

Uses standard 2'x4' ceiling tiles – no cutting required.

High-gloss, baked white enamel finish.

Extruded acrylic prismatic diffuser.

For unit or row installaiton.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).





Example: EC 2 32 MVOLT GEB10IS

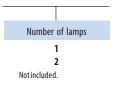
Ordering Information

Series

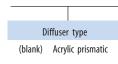
EC

For tandem double-length

For tandem double-length unit, add prefix **T**. Example: **TEC.**









	Options
1/4 GEB10IS	One 4-lamp ballast T8 electronic ballast, ≤10% THD, instant start
GEB10PS	T8 electronic ballast, ≤10% THD, rapid start
CSA	CSA Certified
NOM	NOM Certified

		Availab	ility and Dimensior	ns	
Nominal length	Series	Lamps per cross section	Lamps per fixture	Length in.(cm)	Height in.(cm)
4'	EC	1	1	48 (121.9) 48 (121.9)	6 (15.2) 6 (15.2)
8'	TEC	1 2	2 4	96 (243.8) 96 (243.8)	6 (15.2) 6 (15.2)



Architectural Wraparounds

AW



Intended Use

For surface or suspended applications that require a low-profile architectural appearance. Provides high vertical and horizontal illumination for walkways, corridors, offices and retail applications.

Features

Flat-bottom acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends.

Diffuser held by four torsion springs. Hinges or latches from either side for easy cleaning and service.

Choice of width — models available with 2, 3 or 4 lamps. For 51/4" width, see companion CA Series.

Optional high-impact-resistant acrylic (AR) diffuser includes 50% DR additive for strength.

Two 4-foot diffusers provided on tandem models.

White housing standard, black and special colors optional.

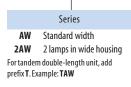
For surface or stem mounting, unit or row installation. Order two hangers for 2-lamp and 4-lamp models, four hangers for 3-lamp models.

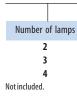
Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: AW 2 32 AR MVOLT GEB10IS

Ordering Information

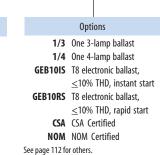












		A	vailability an	d Dimensions		
	Lamps per cross	Lamps per	Lamp length	Width	Depth	Length
Series	section	fixture	in.	in.(cm)	in.(cm)	in.(cm)
	2	2	48	11¼ (28.6)	35/16(8.4)	48 (121.9)
AW	3	3	48	16¾ (42.5)	35/16(8.4)	48 (121.9)
	4	4	48	16¾ (42.5)	35/16(8.4)	48 (121.9)
2AW	2	2	48	16¾ (42.5)	35/16(8.4)	48 (121.9)
	2	4	48	11¾ (28.6)	35/16(7.9)	96 (243.8)
TAW	3	6	48	16¾ (42.5)	35/16(7.9)	96 (243.8)
	4	8	48	16¾ (42.5)	35/16(7.9)	96 (243.8)
T2AW	2	4	48	16¾ (42.5)	35/16(7.9)	96 (243.8)



For applications where a narrow-profile architectural appearance is desired. Ideal for areas such as corridors or stairwells where size is critical.

Features

Companion to AW Series, but only 51/4" wide.

Choice of flat-bottom diffusers — prismatic acrylic or matte white opal acrylic. Both available in high-impact versions.

Diffuser held by four torsion springs. Hinges open from either side for easy cleaning and service.

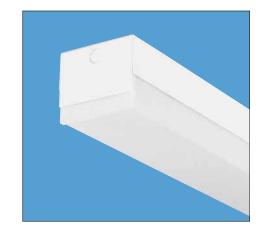
Slim, low-profile housing for ceiling or wall mounting.

White housing standard. Black and special colors optional.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).





Example: CA 1 32 ACW MVOLT GEB10IS

Ordering Information

Series

CA
For tandem double-length unit, add prefix T.
Example: TCA

Number of lamps

1
2
Notincluded.

Lamp type
17 17W T8 (24")
20 20W T12 (24")
25 25W T8 (36")
30 30W T12 (36")
32 32W T8 (48")

Diffuser type

(blank) Prismatic

AR High-impact
prismatic

ACW Matte white

AWR High-impact matte
white

Voltage 120 277 MVOLT 347 Options

1/4 One 4-lamp ballast

GEB10IS T8 electronic ballast,
≤10% THD, instant start

GEB10RS T8 electronic ballast,
≤10% THD, rapid start

CSA CSA Certified

NOM NOM Certified

Seepage112forothers.

		Ava	ilability and Dir	nensions		
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in.(cm)	Depth in.(cm)	Length in.(cm)
CA	1 2	1 2	24 24	5¼ (13.3) 5¼ (13.3)	4 ⁵ / ₈ (11.8) 4 ⁵ / ₈ (11.8)	24½ (62.2) 24½ (62.2)
CA	1	1	36	5¼ (13.3)	4 ⁵ / ₈ (11.8)	36½ (92.7)
	2	2	36	5¼ (13.3)	4 ⁵ / ₈ (11.8)	36½ (92.7)
CA	1	1	48	5¼ (13.3)	4 ⁵ / ₈ (11.8)	48½ (123.2)
	2	2	48	5¼ (13.3)	4 ⁵ / ₈ (11.8)	48½ (123.2)
TCA	1	2	48	5¼ (13.3)	4 ⁵ / ₈ (11.8)	97 (246.4)
	2	4	48	5¼ (13.3)	4 ⁵ / ₈ (11.8)	97 (246.4)

Low-Profile Wraparounds



Intended Use

For applications requiring a clean, decorative appearance. Provides high vertical illumination and brightness control.

Features

Acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends. Matches CB Series in appearance.

White enamel end plates - optional appliques available for field installation.

Linear side prisms control brightness; pyramidal bottom prisms minimize lamp image.

Continuous, interlocking-diffuser support prevents accidental opening, simplifies cleaning and service.

For surface or stem mounting, unit or row installation. Snap-in aligners permit row mounting without tools.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required. Four single-stem hangers required for 3-lamp versions.

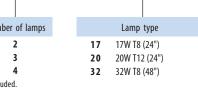
Listings

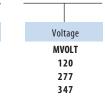
UL Listed (standard) and CSA Certified (standard; except for 347V - see Options). NOM Certified (see Options).

Ordering Information

	Series
	Standard width 2 lamps in wide housing
For tandem double-length unit, add prefix T. Example: TLB	







	Options
1/3	One 3-lamp ballast
1/4	One 4-lamp ballast
GEB10IS	T8 electronic ballast, ≤10% THD, instant start
GEB10RS	T8 electronic ballast, \leq 10% THD, rapid start
CSA	CSA Certified (347V only)
NOM	NOM Certified
See page 112 for oth	ers.

Example: LB 2 32 MVOLT GEB10IS

Accessories	(Order separately)

Order one pair per fixture or row

Walnut end plate appliques for narrow body, one pair. LB4W* Walnut end plate appliques for wide body, one pair.

light quick°XD Express delivery products.
See page11 for details about LightQuick XD.
Description
LB 4 32 MVOLT 1/4 GEB10IS
LB 2 32 MVOLT GEB10IS

Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
LB	2 4	2 4	24 24	10 (25.4) 15 ³ / ₈ (39.1)	3 (7.6) 3 (7.6)	24 (61.0) 24 (61.0)
LB	2 3 4	2 3 4	48 48 48	10 (25.4) 15 ³ / ₈ (39.1) 15 ³ / ₈ (39.1)	3 (7.6) 3 (7.6) 3 (7.6)	48 (121.9) 48 (121.9) 48 (121.9)
2LB	2	2	48	15 ³ / ₈ (39.1)	3 (7.6)	48 (121.9)
TLB	2 3 4	4 6 8	48 48 48	10 (25.4) 15 ³ / ₈ (39.1) 15 ³ / ₈ (39.1)	3 (7.6) 3 (7.6) 3 (7.6)	96 (243.8) 96 (243.8) 96 (243.8)
T2LB	2	4	48	153/8 (39.1)	3 (7.6)	96 (243.8)



^{*}For teak appliques, substitute **T** for W in catalog number. Example: LB2**T**.

For applications requiring a narrow profile and decorative appearance. Ideal for corridors or spaces where medium light levels in a compact design are preferred.

Features

Acrylic prismatic diffuser with sonic-welded, injection-molded, luminous ends. Matches LB Series in appearance.

White enamel end plates.

Linear side prisms control brightness, pyramidal bottom prisms minimize lamp image.

Continuous, interlocking-diffuser support prevents accidental opening, simplifies cleaning and service.

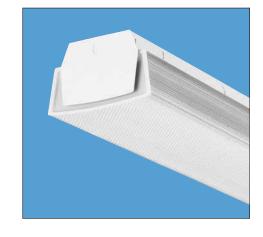
For surface or stem mounting, unit or row installation. Snap-in couplers permit row mounting without tools.

Minimum two hangers required. For row installation, one hanger per fixture plus one per row required.

Listings

UL Listed (standard). CSA Certified (see Options).





Example: CB 1 32 MVOLT GEB10IS

Ordering Information

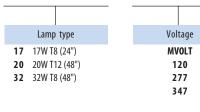
Series

CB

For tandem double-length unit, add prefix T. Example: TCB

Number of lamps

1
2
Notincluded.



	Options	
1/4	One 4-lamp ballast	
GEB10IS	T8 electronic ballast, ≤10% THD, instant start	
GEB10PS	T8 electronic ballast, \leq 10% THD, rapid start	
CSA	CSA Certified	
Seepage 112 for others.		

	Availability and Dimensions					
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
СВ	1,2	1,2	24 48	7 (17.8) 7 (17.8)	4½ (11.4) 4½ (11.4)	24 (61.0) 48 (121.9)
TCB	1,2	2,4	48	7 (17.8)	4½ (11.4)	96 (243.8)

Square-Basket Wraparounds

SB

Intended Use

For applications that require the clean appearance of a flat-bottom diffuser. Provides high light levels for storage rooms, offices or retail applications.

Features

Flat-bottom acrylic prismatic diffuser. Matches CS Series in appearance.

Full-depth, white enamel end plates.

Linear side prisms control brightness, pyramidal bottom prisms minimize lamp image.

Diffuser hinges open from either side for easy cleaning and service.

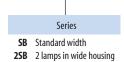
For surface or stem mounting (4-foot models only), unit or row installation.

Minimum two single-stem hangers required. For row installation, one hanger per fixture plus one per row required.

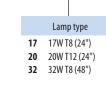
Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Ordering Information







Voltage
MVOLT
120
277
347

Example: SB 2 32 MVOLT GEB10IS

	Options
1/3	One 3-lamp ballast
1/4	One 4-lamp ballast
GEB10IS	T8 electronic ballast, \leq 10% THD, instant start
GEB10RS	T8 electronic ballast, \leq 10% THD, rapid start
CSA	CSA Certified (347V only)
NOM	NOM Certified

See page 112 for others.

light quick°XI Express delivery products.
See page11 for details about LightQuick XD.
Description
SB 4 32 MVOLT 1/4 GEB10IS
SB 2 32 MVOLT GEB10IS

Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
SB	2	2	24 48	8 ¹ / ₃ (21.2) 8 ¹ / ₃ (21.2)	$2^{7}/_{8}$ (6.0) $2^{7}/_{8}$ (6.0)	24 (61.0) 48 (121.9)
	4	4	48	13¾ (34.9)	$2^{7}/_{8}$ (6.0)	48 (121.9)
2SB	2	2	48	13¾ (34.9)	27/8 (6.0)	48 (121.9)



For applications that require a narrow-profile design with flat-bottom diffuser. Provides medium light levels in a compact fixture.

Features

Contemporary style with flat-bottom acrylic prismatic diffuser. Matches SB Series in appearance.

Linear side prisms control brightness. Pyramidal bottom prisms minimize lamp image.

Diffuser hinges open from either side for easy cleaning and service.

Two 4-foot diffusers provided on 8-foot units.

For surface or stem mounting, unit or row installation.

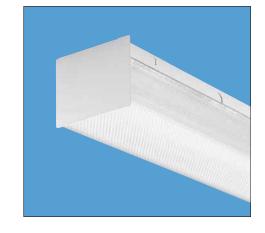
Minimum two hangers required. For row installation, one hanger per fixture plus one per row required.

Suitable for wall mounting with diffuser mounting clips (included with fixture).

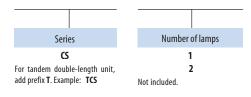
Listings

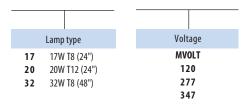
UL Listed (standard). CSA Certified (see Options).





Ordering Information





Example: CS 1 32 MVOLT GEB10IS

	Options		
1/4	One 4-lamp ballast		
GEB10IS	GEB10IS T8 electronic ballast, \leq 10% THD, instant start		
GEB10RS	T8 electronic ballast, \leq 10% THD, rapid start		
CSA	CSA Certified		
See name 112 for others			

		А	vailability and	Dimensions		
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
	1	1	24	513/16 (14.8)	4½ (11.4)	24 (61.0)
CS	2	2	24	$5^{13}/_{16}$ (14.8)	41/2 (11.4)	24 (61.0)
C	1	1	48	$5^{13}/_{16}$ (14.8)	41/2 (11.4)	48 (121.9)
	2	2	48	$5^{13}/_{16}$ (14.8)	4½ (11.4)	48 (121.9)
TCS	1	2	48	513/16 (14.8)	4½ (11.4)	96 (243.8)
ics	2	4	48	$5^{13}/_{16}$ (14.8)	4½ (11.4)	96 (243.8)



Specification Premium Wraparounds

Classmate™



Intended Use

For applications where brightness and vertical illumination are beneficial. Ideal for schools and other applications that require high light levels.

Features

High-impact, vandal-resistant acrylic diffuser with white, sonic-welded, injection-molded ends

Optional Holophane® injection-molded acrylic Controlens® wraparound shielding bonded to opaque acrylic end caps.

Shielding is secured by spring-loaded metal latches — hinges open from either side for easy cleaning and service.

For surface or stem mounting, unit or row installation.

Unit installation requires two single-stem hangers

or one double-stem hanger on 4-foot units. Row installation requires one hanger per fixture plus one per row.

Ballast cover secured by quarter-turn fastener no tools required to access electrical chamber.

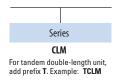
Rotary, anti-vibration lampholders standard.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: CLM 2 32 MVOLT GEB10IS

Ordering Information









Diffuser type¹ (blank) High-impact acrylic Holophane#7100 injection-molded acrylic



	Options	
1/3	One 3-lamp ballast	
1/4	One 4-lamp ballast	
GEB10IS	T8 electronic ballast, ≤10%	
	THD, instant start	
GEB10RS	T8 electronic ballast, ≤10%	
	THD, rapid start	
CSA	CSA Certified	
NOM	NOM Certified	
See page 112 for others.		

NOTES:

1 Diffuser shipped separately.

		A	vailability and (Dimensions		
Series	Lamps per cross section	Lamps per fixture	Lamp length in.	Width in. (cm)	Depth in. (cm)	Length in. (cm)
	1	1	48	89/16 (21.7)	43/8 (11.1)	48 (121.8)
CLM	2	2	48	$8^{9}/_{16}$ (21.7)	$4^{3}/_{8}$ (11.1)	48 (121.8)
	3	3	48	89/16 (21.7)	43/8 (11.1)	48 (121.8)
	1	2	48	89/16 (21.7)	43/8 (11.1)	96 (243.6)
TCLM	2	4	48	89/16 (21.7)	43/8 (11.1)	96 (243.6)
	3	6	48	89/16 (21.7)	43/8 (11.1)	96 (243.6)



For surface-mount applications that require optimum optical control with low brightness. Ideal for public areas such as schools, airports, libraries, retail stores and offices.

Features

Injection-molded, flat-bottom acrylic prismatic diffuser provides optimum controlled, low brightness illumination.

Linear side prisms control brightness. Pyramidal bottom prisms minimize lamp image.

Concealed hinge or latch system permits diffuser to be hinged from either side.

Design minimizes ceiling shadows and sharp contrasts.

For surface or stem mounting, individual or row installation. For row installation, one hanger per fixture plus one per row required.

End plates shipped as accessory, one pair required for individual or end of row mount.

Decorative end plates are required for individual mount or one pair for each row of fixtures.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

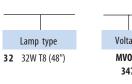




Ordering Information

Series VC Standard width **2VC** 2 lamps in wide housing For tandem double-length unit, add prefix **T**. Example: **TVC**







Example: VC 2 32 MVOLT GEB10IS VC2WH

	Options
1/4	One 4-lamp ballast
GEB10IS	T8 electronic ballast, ≤10% THD, instant start
GEB10RS	T8 electronic ballast, ≤10% THD, rapid start
CSA	CSA Certified
NOM	NOM Certified
See page 112 for	others.

	End plates
(blank)	No end plates (for continuous runs)
VC2WH	Two end plates, standard width, white (for individual fixture or end of row)
VC4WH	Two end plates, wide width, white

		Availabili	ty and Dimensions		
Series	Lamps per cross section	Lamps per fixture	Width in.(cm)	Depth in.(cm)	Length in.(cm)
VC	2 4	2 4	10¾ (27.3) 15¾ (40.0)	3¼ (8.3) 3¼ (8.3)	48 (121.9) 48 (121.9)
2VC	2	2	15¾ (40.0)	3¼ (8.3)	48 (121.9)
TVC	2 4	4 8	10¾ (27.3) 15¾ (40.0)	3¼ (8.3) 3¼ (8.3)	96 (243.8) 96 (243.8)
T2VC	2	4	15¾ (40.0)	31/4 (8.3)	96 (243.8)



Solid-Front Undercabinet Lights

N₂S

Finesse®



Intended Use

For undercabinet applications that require additional shielding from direct glare. Ideal for offices, hospitals, laboratories and kitchens.

Features

Trim, 15/8" low-profile design with a smooth show surface, free of knockouts.

Paint after fabrication, gloss-white enamel finish on all metal parts.

Solid-front housing eliminates direct glare.

Snap-in, positive lens retention.

Proprietary, shatter-resistant diffuser provides optimum uniformity of light distribution.

Utilizes T8 lamp technology for energy efficiency and maximum visual clarity.

Separate, hingeable service tray for easy

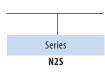
installation and maintenance — no tools required for relamping.

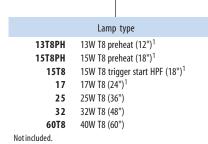
Limited lifetime warranty.

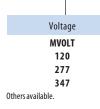
Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information







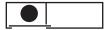
Options

Example: N2S 32 MVOLT GEB10IS

GEB10IS	T8 electronic ballast, instant start
GEB10RS	T8 electronic ballast, rapid start
GLR	Internal fast blow fuse ²
GMF	Internal slow-blow fuse ²
CSW	6-foot, 3-wire grounded cordset, right end ^{3,4,5}
CSWL	6-foot, 3-wire grounded cordset, left end ^{3,4,5}
CSWC	6-foot, 3-wire grounded cordset,backcenter ^{3,4,5}
CO	Convenience outlet, bottom right ^{3,6}
COL	Convenience outlet, bottom left ^{3,6}
SWR	Rocker switch, bottom right ³
SWRL	Rocker switch, bottom left ³
SWRC	Rocker switch, bottom center ^{3,7}
CSA	CSA Certified
NOM	NOM Certified

- 1 Not available with SWRC or RIF1 options.
- 2 Must specify voltage.
- 3 Available with 120V ballast only.
- 4 Not available with CO/COL convenience outlet options.
- 5 Cordset must always be specified for installation on same end of fixture as switch location.
- 6 Not available with CSW/CSWL/CSWC cordset options.
- 7 Notavailable on 12", 18" or 24" units.

	Avail	ability and Dimer	nsions	
Nominal length	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1′	13T8PH	5½ (14.0)	15/8(4.1)	12 ¹ / ₈ (30.8)
1½′	15T8PH, 15T8	5½ (14.0)	15/8(4.1)	18 ¹ / ₈ (46.0)
2′	17	51/2 (14.0)	15/8(4.1)	241/8(61.3)
3′	25	5½ (14.0)	15/8(4.1)	36 ¹ / ₈ (91.8)
4′	32	5½ (14.0)	15/8(4.1)	48 ¹ / ₈ (122.2)
5′	60T8	5½ (14.0)	15/8(4.1)	60 (152.4)





For undercabinet or display lighting where a compact luminaire design is required. Provides medium light levels.

Features

All-purpose profile. Available in four lengths. T8 or T12 lamp source.

Fastener-free show surface.

Separate, hingeable service tray for easy installation and maintenance — no tools required for relamping.

Flanged, shatter-resistant, milk-white diffuser.

Gloss-white enamel finish.

Listings

UL Listed (standard). CSA Certified (see Options).





Example: 2UC 30 AR 120 HPF

Options

SWR Rocker switch, installed¹

fuse2

outlet1

CSA CSA Certified

0

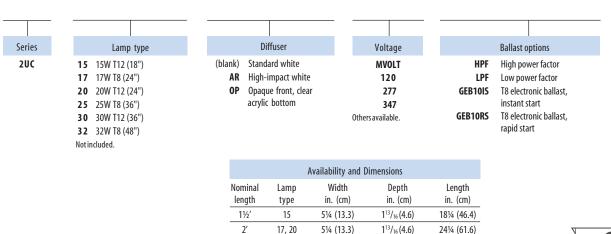
GLR Internal fast blow

CSW 6' cordset, white1

Grounded convenience

Radio interference filter (one per fixture)

Ordering Information



3′

4′

25, 30

32

Volta

12

27

Others
available.

NOTES:

- 1 120V only.
- 2 Must specify voltage

5¼ (13.3) 1¹³/₁₆(4.6) 18¼ (46.4) 5¼ (13.3) 1¹³/₁₆(4.6) 24¼ (61.6) 5¼ (13.3) 1¹³/₁₆(4.6) 36¼ (92.1) 5¼ (13.3) 1¹³/₁₆(4.6) 48¼ (122.6)

Low-Profile Undercabinet Lights

Intended Use

Use under cabinets in school, display or residential applications. Delivers medium light levels in a compact design.

Features

Trim, low-profile design. Available in five lengths. T5 lamp source.

Separate, hingeable service tray for easy installation and maintenance — no tools required for relamping.

Ordering Information

Factory-installed starters on all preheat models.

Romex conduit connector provided with each fixture.

Snap-fit, shatter-resistant, milk-white acrylic diffuser design with 15% DR.

Listings

UL Listed (standard). CSA Certified (see Options).

uc



Example: UC 33 OP 120 CSW

Series		Lamp type ¹		Diff	user
UC	21 24 33 42	One 8W T5 (12") One 13W T5 (21") Two 8W T5 (24") One 8W T5 and one 13W T5 (33") Two 13W T5 (42") included.	e		White Opaque front, clear acrylic bottom
MOTEC.					

NOTES:

- $1\quad For instant-on \,ballast, add\,\textbf{E}\, after fixture \,length.\, Example: UC33\,\textbf{E}\, OP\,120\,CSW$
- 2 120V only.

age		Options
0 7	GLR CSW LPWW	Internal fast blow fuse 6' cordset ² Warm white 3000°K T5 lamp(s), installed
	CO SWR CSA	Grounded convenience outlet Rocker switch, installed ² CSA Certified

		Availability and	Dimensions	
lominal length	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1′	8	5 (12.7)	13/16 (3.0)	123/8 (31.4)
1¾′	13	5 (12.7)	13/16 (3.0)	213/8 (52.2)
2′	8 (2)	5 (12.7)	$1^{3}/_{16}(3.0)$	24½ (62.3)
2¾′	8, 13	5 (12.7)	13/16 (3.0)	33½ (85.1)
3½′	13 (2)	5 (12.7)	13/16 (3.0)	421/2 (108.0)





www.lithonia.com, keywords: 2UC and UC

UC8



Intended Use

For undercabinet or display lighting where a compact luminaire design is required.

Features

Low profile design with on/off switch. Available in four lengths. All mounting hardware included. Rugged powder coated steel housing. Separate, hingeable service tray for easy installation and maintenance. Milk white acrylic diffuser provides soft widespread illumination with zip-lock for easy lamp replacement and superior retention.

T8 electronic ballast (120V, 60Hz) as standard.

Approved for residential use, ensures no flickering and quiet operation without interfering with home electronics.

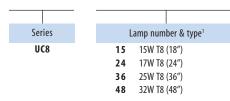
Utilizes T8 lamps for energy efficiency, superior color rendering and long life. Not included.

Listings

Standard fixtures are UL Listed to US and Canadian safety standards.

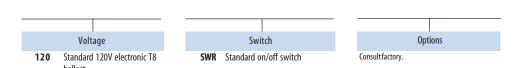
Example: UC8 15 120 SWR

Ordering Information



NOTES:

1 Lamps not included.



		Availabilit	y and Dimensions		
Nominal length	Model number	Number of lamps ¹	Length in. (cm)	Width in. (cm)	Depth in. (cm)
18"	UC8 15 120 SWR	(1) 15W T8	18 ⁵ / ₁₆ (46.5)	4 (10.2)	1 3/8 (3.5)
24"	UC8 17 120 SWR	(1) 17W T8	24 ⁵ / ₁₆ (61.8)	4 (10.2)	1 3/8 (3.5)
36"	UC8 25 120 SWR	(1) 25W T8	36 ⁵ / ₁₆ (92.2)	4 (10.2)	1 3/8 (3.5)
48"	UC8 32 120 SWR	(1) 32W T8	48 ⁵ / ₁₆ (122.7)	4 (10.2)	1 3/8 (3.5)

Twin Task Lights





Intended Use

Task lighting for under cabinets where a compact luminaire design is required.

Features

Low profile design with on/off switch. Available in two lengths. All mounting hardware included. Rugged powder coated steel housing. Milk white acrylic diffusers provide soft widespread illumination with zip-lock for easy lamp replacement and superior retention.

T5 electronic ballast (120V, 60Hz) as standard. Approved for residential use, ensures no flickering and quiet operation without interfering with home electronics.

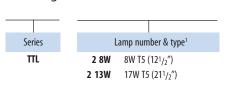
Utilizes T5 lamps for energy efficiency, superior color rendering and long life. Not included.

Listings

Example: TTL 2 8W 120

UL Listed to US and Canadian safety standards.

Ordering Information



Voltage Options

120 Standard 120V electronic Consultfactory.
T8 ballast

		Availability	and Dimensions		
Nominal length	Model number	Number of lamps ¹	Width in. (cm)	Depth in. (cm)	Length in. (cm)
12"	TTL 2 8W 120	(1) 8W T5	4 ⁵ / ₈ (11.7)	11/2 (3.2)	121/2 (31.8)
21"	TTL 2 13W 120	(1) 13W T5	45/8 (11.7)	11/2 (3.2)	211/2 (54.6)

NOTES:

1 Lamps not included.



For applications that require a contemporary, low-profile appearance. Ideal for stairwells, restrooms, patient care lobbies or corridors.

Features

Available in 2′, 3′ or 4′ length with one or two lamps in cross-section.

All fabricated components of 20-gauge CRS. All metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Propriety, snap-in diffuser of tinted 50% DR acrylic with prismatic pattern.

Direct or direct/indirect distribution available.

Detachable, hinged electrical service tray for easy installation a nd maintenance. No tools required for relamping.

Fluorescent and incandescent night-light capabilities.

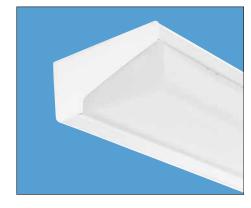
Through-wire/row-mount capabilities.

Standard finish post-paint, gloss-white enamel on all metal parts. Architectural black, 40% gloss post-paint available as an option.

Listings

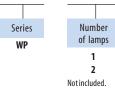
UL Listed (standard). CSA Certified (see Options).

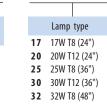
WP

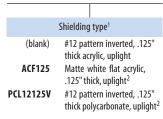


Example: WP 2 32 MVOLT GEB10IS

Ordering Information







Voltage MVOLT 347

Options

- **S1** Left-mounted on/off pull-switch (all lamps)^{3,4}
- **S2** Left-mounted on/off pull-switch for downlight, remote uplight switching ^{3,5,6}
- **S4** Left-mounted 4-position pull-switch (front only, rear only, all on, all off) 3,4,5,6
- **BF** Internal baffle to divide uplight and downlight²
- **SWR** Rocker switch, bottom right ^{3,4}
- **co** Grounded convenience outlet, right-mounted ⁴
- **MB** Architectural matte black finish
- **RIF1** Radio interference filter (one per fixture)
- **GEB10IS** T8 electronic ballast, \leq 10% THD, instant start **GEB10PS** T8 electronic ballast, \leq 10% THD, rapid start
 - **2/1** Two 1-lamp ballasts
 - **TPS** Tamperproof screw
 - **DO** Downlight only; solid-top metal housing
 - CSA CSA Certified

NOTES:

- $1\quad Supplied with standard high-impact acrylic lower diffuser.$
- 2 Not available with **DO** option.
- 3 120
- 4 Specify 120/277 voltage.
- 5 Requires **BF** option.
- 6 Requires **2/1** option for 2-lamp fixtures.

Accessories	(Order separately)
	-

U4220 Hex-base driver bit, Torx TX20, for tamper-resistant screws with center pin

Availability and Dimensions							
Number Lamp Width Depth Leng							
Series	of lamps	type	in. (cm)	in. (cm)	in. (cm)		
		17, 20	7 3/8 (18.7)	3 1/4 (8.26)	24 7/16 (62.1)		
WP	1, 2	25,30	7 3/8 (18.7)	3 1/4 (8.26)	36 7/16 (92.6)		
		32	7 3/8 (18.7)	3 1/4 (8.26)	48 7/16 (123.0)		





Intended Use

For multi-purpose areas such as corridors, utility rooms and lavatories where high vertical illumination is required.

Features

Available in 2', 3' and 4' models.

Suitable for wall or ceiling mounting.

Can be mounted vertically or horizontally. For individual mounting.

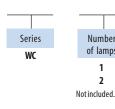
Steel housing with opal acrylic diffuser standard. Clear, prismatic #12 pattern acrylic lens and front metal fascia available.

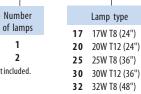
Easy-maintenance design. Standard endcaps are spring-loaded for easy diffuser removal – no tools required.

Listings

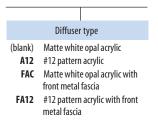
UL Listed (standard). CSA Certified or NOM Certified (see Options).

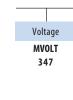
Ordering Information





17 17W T8 (24") **20** 20W T12 (24") 25 25W T8 (36")





	Options			
GEB10IS	T8 electronic ballast, ≤10% THD, instant start			
GEB10PS	GEB10PS T8 electronic ballast, \leq 10% THD, rapid start			
 On/off pull-switch (all lamps), lower left^{1,2} Grounded convenience outlet, lower right^{1,2} 				
			MB Architectural matte black finish	
CSA	CSA Certified			
NOM	NOM Certified			

Example: WC 2 32 MVOLT GEB10IS

- 1 120V only.
- 2 Specify 120/277V.

Availability and Dimensions							
Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)		
		17, 20	45% (11.7)	4% (11.7)	24 (61.0)		
WC	1, 2	25, 30	4% (11.7)	45% (11.7)	36 (91.4)		
		32	45/8 (11.7)	4% (11.7)	48 (121.9)		



For applications where direct distribution is preferred in a simple, unobtrusive design.

Features

Trim, contemporary design fits any wall-mount application. Steel housing with high-gloss white enamel PAF finish standard.

Available in 2', 3' and 4' models.

Welded 20-gauge steel construction.

Designed for easy installation and maintenance.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).



Example: WS 2 32 A12 MVOLT GEB10IS

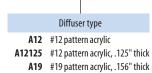
Ordering Information













Options
One 3-lamp ballast
One 4-lamp ballast
T8 electronic ballast, instant start
T8 electronic ballast, rapid start
On/off pull-switch (all lamps), lower left ¹
Grounded convenience outlet, lower right ¹
Rocker switch installed ¹
CSA Certified
NOM Certified

Availability and Dimensions						
Series	Nominal length	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
	2′	1, 2	17, 20	6 ⁷ / ₈ (17.5)	3½ (8.9)	25 (63.5)
WS	3′	1, 2	25,30	$6^{7}/_{8}$ (17.5)	3½ (8.9)	37 (94.0)
	4′	1, 2	32, 40	6 ⁷ / ₈ (17.5)	3½ (8.9)	49 (124.5)

NOTES: 1 120V only.



Contemporary Wall Brackets



Intended Use

For applications where a sleek, brushed aluminum fixture body in a direct lighting pattern will enhance the space.

Features

One-piece, brushed aluminum housing assembly.

Injection-molded end plates standard with woodgrain vinyl finish.

Lens housing secured to channel assembly by spring-loaded latches.

Acrylic diffusers standard (prismatic lower .125", matte white upper panel .187").

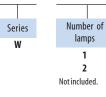
Grounded convenience outlet available on

Standard configuration - Uplight and downlight, optional downlight only available with DO Uplight and downlight distribution options available.

Listings

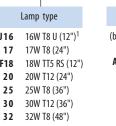
UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information



NOTES: 1 One lamp only. 2 120V only.

	Lamp type
U16	16W T8 U (12") ¹
17	17W T8 (24")
CF18	18W TT5 RS (12")
20	20W T12 (24")
25	25W T8 (36")
30	30W T12 (36")
32	32W T8 (48")



Diffuser type #12 pattern diffuser, (blank) .187" thick, upper lens A12U #12 pattern diffuser, .125" thick, upper lens #19 pattern diffuser, .156" thick Flat acrylic matte white diffuser, .125" thick

Voltage MVOLT 347

Example: W 2 32 MVOLT GEB10IS

	Options
GEB10IS	T8 electronic ballast, instant start
GEB10RS	T8 electronic ballast, rapid start
A12U	#12 pattern diffuser, .125" thick, upper lens
D0	Downlight only
S1	On/off pull-switch (all lamps) ²
BF	Baffle to divide uplight and downlight
N	Night-light, unswitched, 7W C7 lamp (included), top left
NS	Night-light with push-switch, 7W C7 (included), top left
CO	Grounded convenience outlet ²
AE	Brushed aluminum end cap appliques
MB	Matte black finish
MW	Matte white finish
CSA	CSA Certified
NOM	NOM Certified

Availability and Dimensions							
Series	Nominal length	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)	
	1′	1	U16	71/32 (17.9)	51/8 (13.0)	135/8 (34.6)	
	1′	1, 2	CF18	$7^{1}/_{32}$ (17.9)	51/8 (13.0)	135/8 (34.6)	
W	2′	1, 2	17, 20	71/32 (17.9)	51/8 (13.0)	243/8 (61.9)	
	3′	1, 2	25,30	71/32 (17.9)	51/8 (13.0)	363/8 (92.4)	
	4′	1, 2	32	$7^{1}/_{32}$ (17.9)	$5^{1}/_{8}$ (13.0)	483/8 (122.9)	



For applications where a controllable direct or indirect component is desired. Ideal for corridors, dressing rooms, hospitals or other patient-care facilities.

Features

Available in 2', 3' and 4' models.

Die-cast aluminum ends and matching aluminum door. Woodgrain vinyl finish standard.

Door locks open for easy relamping.

Heavy-gauge steel housing and wireway assembly.

Internal baffle for uplight and/or downlight, four-position pull-switch and grounded convenience outlet are standard on WM, optional on WB.

WM available in 120V only. Pull-switches and convenience outlets available on 120V only.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

WB WM



Ordering Information

Series			Number		Lamp type		
WB	Commercial		of lamps ¹		17	17W T8 (24")	
WM	Medical		1		20	20W T12 (24")	
			2		25	25W T8 (36")	
			3		30	30W T12 (36")	
			4		32	32W T8 (48")	
		N	ot included.				

1 Three-lamp models are standard with two lamps bottom, one top. Order Y option for one bottom, two top. Example: WB 3Y 32 A12 120.

Shielding type A12 #12 pattern acrylic (uplight and downlight) A12L #12 pattern acrylic (downlight only) — WB only A12U #12 pattern acrylic (uplight only) SEA KSH 3-E asymmetric lens (no direct light away from

wall)

Voltage MVOLT 347 Not included.

Example: WB 2 32 A12 MVOLT GEB10IS

	Options
1/3	One 3-lamp ballast
1/4	One 4-lamp ballast
GEB10IS	T8 electronic ballast, instant start
GEB10RS	T8 electronic ballast, rapid start
S1	On/off pull-switch (all lamps). WB only ²
\$2	On/off pull-switch for downlight; remote uplight switching ^{2,3,4}
BF	Baffle to divide uplight and downlight ⁵
CO	Grounded convenience outlet ^{2, 5}
N	Night light, unswitched, top left. 7W C7 lamp (included) ²
NS	Nightlight with push-switch, top left. 7W C7 lamp (included) ²
ХВ	Mounting bracket and power supply for examination light; WM only $^{\rm 2}$
IV	IV arm assembly, right-end mounting. WM only
14/11	Million C 1 I

	nging trini only
١V	IV arm assembly, right-end mounting. \
WH	White finish
CSA	CSA Certified
NOM	NOM Certified

		Ava	ilability and	Dimensions		
Series	Nominal length	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
WB	2′	1, 2, 3, 3Y, 4	17, 20	6 ¾ (17.1)	5 ½ (14.0)	24 ¼ (61.6)
WB	3′	1, 2, 3, 3Y, 4	25,30	6 3/4 (17.1)	5 ½ (14.0)	36 ¼ (92.1)
WM	3′	2, 3, 3Y, 4	25,30	6 ¾ (17.1)	5 ½ (14.0)	36 ¼ (92.1)
WB	4′	1, 2, 3, 3Y, 4	32	6 ¾ (17.1)	5 ½ (14.0)	48 ¼ (122.6)
WM	4′	2, 3, 3Y, 4	32	6 ¾ (17.1)	5 ½ (14.0)	48 ¼ (122.6)

Accessories fo	or WM	(Order separately)
XL	medium-base A lamp, 10	gray finish standard. Uses one OW maximum. Must order XB ket and power supply outlet. ²

	option for moun
VII	YI with lauvar

NOTES:

2 120Vonly.3 Requires **BF** option.

4 Requires **2/1** option for 2-lamp fixtures. 5 Standard on WM, not available in Canada.

Fluorescent High Bays

Lithonia Lighting is the leader in T5HO fluorescent high bays as a one-for-one alternative for HID lighting systems. Lithonia offers a wide variety of lighting systems to meet individual tasks. The Lithonia high bay offering provides both reliability and performance.

Specific fixtures include Cool Running™ Technology for peace-of-mind operation in even the most demanding applications.



Energy Savings

Fluorescent systems provide up to 50% savings when compared to existing 400-watt metal halide systems. Depending on your choice of lamp type, fluorescent is the right choice for comparable perceived light while providing significant energy savings.

Lighted Space

The fluorescent systems provide a number of benefits when compared to common high bay products. Fluorescent improves uniformity in the space thus eliminating the scallops or poor uniformity commonly associated with other systems.

Maintained Illumination

Fluorescent provides improved illumination in the space by providing the right amount of light at initial installation and carries on until the rated end of life. Typical fluorescent lamps lose only 10% of the rated lamp lumens throughout the life of the lamp while metal halide can lose up to 50% from initial rated lumens.

Improved Color

Fluorescent systems are rated at 70+ or 80+ CRI compared to common metal halide sources at 62. This improvement in color provides a better lighted space, cleaner environment and the perception of higher light levels.

Other Common Benefits

Sound Rating – Fluorescent systems are A sound rated thus providing a quieter environment for employees and/or customers.

Low profile – Fluorescent high bays are much lower profile thus reducing the likelihood of accidental damage caused by forklifts or other machinery.

Low Mercury – Even with more lamps the combined total of fluorescent lamps have half the mercury content of metal halide lamps.

Lithonia Lighting offers a wide offering of fluorescent high bay products to meet any application need.











I-BEAM™

Intended Use

The I-BEAM™ Series is the workhorse of the high bay series of products. The I-BEAM™ fixture is the first fluorescent high bay to include T5HO Cool Running™ Technology with a 5-year ballast warranty and is UL Listed up to 55° C applications. The I-BEAM™ Series is ideal for applications such as manufacturing or warehousing where elevated ambient temperatures are common.

Features

Standard with unique high temperature T5HO system technology for applications up to 55° C. Five-year ballast warranty.

Available with narrow (aisle) or high mounting heights or wide (general or lower mounting heights) distribution.

4 or 6-lamp configuration with T5HO or T8 lamps. Recommended mounting 16'-40'.



Intended Use

The SPEC-BEAM™ Series couples high performance in a rugged-construction, full-body design to provide reliable performance in any application. SPEC-BEAM™ fixtures feature Cool Running™ Technology and 5-year ballast warranty for T5HO with a UL listing for 55° C. Applications include warehousing, industrial, commercial, retail and manufacturing.



Features

Cool Running™ Technology with T5HO system with five-year ballast warranty will be available soon.

Single- or two-point mounting.

Open optical or shielding.

A variety of photometric distributions to meet any application need.

Available in 2, 3, 4, or 6-lamp operation. Recommended mounting from 16'-40'.





Intended Use

The distinctive appearance of the MS5HB fixture only is matched by the reliable performance it provides. This series includes cross blades for additional shielding of the lamps. Ideal for climate-controlled spaces in medium to low mounting heights where shielding of the lamps is important such as assembly lines, retail or aisles.

Features

Linear design provides improved uniformity in space.

T5HO or T8 lamp types in 2 or 3-lamp cross section. Wide or narrow distribution.

Cross blades for lamp shielding.

Mounting styles include aircraft cable, tong or chain.

Recommended mounting 14'-30'.

MS5HB/MS8



Intended Use

Designed to deliver peak optical performance with maximum efficiency and beam control in industrial, commercial and insitutional applications. Using high performance optics can reduce the number of fixtures required and maximize energy savings. Ideal for high ambient operation with Cool Running™ Technology and 5-year ballast warranty.



Features

Available in 8', 12' or 16' lengths with 1-lamp cross section.

Focused beam for high performance.

Suspended mounting.

Recommended mounting heights 18'-50'.

FAL



Intended Use

The MS5 Series is the right choice for applications requiring high light levels at lower mounting heights in a compact fixture design. The MS5 fixture is ideal for applications requiring shielding such as assembly lines, retail offices, corridors, aisles or libraries. Suggested use in climate-controlled spaces.

Features

Compact design makes this product unobtrusive yet provides high light levels in a 1 or 2-lamp cross section.

T5 or T5HO lamp types.

Cross blade louver provides excellent shielding. Very low profile.

Recommended mounting 8'-16'.

www.lithonia.com

MS5





Fluorescent High Bay

I-BEAM







Intended Use

The I-BEAM™ Series is the ideal one-for-one replacement of common metal halide high bay systems. Applications include manufacturing, warehousing, commercial facilities and retail. I-BEAM™ fixtures perform best at mounting heights from 15'-40'.

Features

The I-BEAM™ Series includes patented T5HO Cool Running™ Technology for elevated ambient operation up to 55° C.

Five-year ballast warranty on T5HO or T8 ballast.

Tall end caps protect optical system during shipment and installation.

Available in 4 or 6-lamp configuration.

Optics available with or without uplight.

Narrow distribution (ND) ideal for aisle or higher mounting heights. Reflector includes precisionformed segmented optics utilizing Alanod MIRO® 4 specular.

Wide distribution is achieved with high reflectance white paint. Ideal for general or open areas.

Sockets include rotating collars and enclosed contacts.

Listings

UL Listed to US and Canadian safety standards. NOM Certified (see Options).

Example: IB 454L

Options

EL14 Emergency battery pack⁶

Occupancy-sensor

OCS OnePass® installed8

Integral side panels

Pendant monopoint9

NOM Certified

prewired

MSI

ocs

FSP

NOM

Ordering Information

Series ΙB BEAM™

Number of lamps/wattage Lamps Installed¹

454L 4-lamp, 54W T5H0 654L 6-lamp, 54W T5H0 **432L** 4-lamp, 32W T8 632L 6-lamp, 32W T8

<u>Unlamped</u>

432 4-lamp, 32W T8 632 6-lamp, 32W T8

Distribution

(blank) Narrow distribution with uplight NDS Narrow distribution

with no uplight Wide with uplight

WDS Wide distribution, nouplight

Voltage

(blank) MVOLT² 120 120 volt 277 277 volt **347** 347 volt

480 480 volt3

GEB10IS Instant start 0.88 BF **GEB10RS** Rapid start

Ballast

(blank) Program

(blank) Instant start

1.2 BF

start 1.0 BF

<u>T5H0</u>

Ballast configuration

(blank) Standard configuration4 2/3 Two three-lamp

ballasts 2/2 Two two-lamp

ballasts

Lamps installed T5H0 (blank) F54T5H0/841 LP835 F54T5H0/835

LP830 F54T5H0/830 LP850 F54T5H0/850

T5HO Amalgam⁵ LP830A F54T5H0/830 LP835A F54T5H0/835

(blank) F32T8/741

LP735 F32T8/735 LP730 F32T8/730

LP841A F54T5H0/841

Accessories (Order separately)

IBAC120 Aircraft cable 10' Y hanger (one pair) IBAC240 Aircraft cable 20' Y hanger (one pair) WGIBZ Wirequard, zine-coated HC36 Chain hanger, 36" IBHMP Hook monopoint IRPMP Pendant monopoint9

- 1 Lamps installed are F54T5H0/841 for T5H0 and F32T8/741 for T8.
- 2 120-277 volt. Avialable on T5HO and T8. 0.88 BF only.
- 3 For use with T5HO only. Consult factory for use with T8.
- See ballast configuration chart.
- Not for use with montion sensors or EL14.
- ULListed for 55°C. Output in emergency mode varies with ambient temperature (approx. 944 lumens at 25°C and 911 lumens at 45°C). Single-lamp operation only. Not available with HVOLT.
- Use of rapid start ballast recommended to avoid shortened lamp life.
- 8 Specifyvoltage. 120 or 277V only.
- 9 Fixture must be ordered with PMP for channel modification. Splice box ships

	Ballast Configu	ration Chart
Lamp type	4-lamp	6-lamp
T5H0	(1) 4-lamp ballast	(1) 4-lamp and (1) 2-lamp ballast
T8 (.88)	(1) 4-lamp ballast	(1) 4-lamp and (1) 2-lamp ballast
T8 (1.2)	(2) 2-lamp ballasts	(2) 3-lamp ballasts



Ideal for one replacement for HID high bay luminaires. Provides large area lighting in a variety of photometric distributions for warehouse, industrial, commercial, retail and manufacturing areas.

Features

Patented T5HO Cool Running™ Technology UL Listed operation up to 55° C with 5-year ballast warranty will soon be available.

Four optical systems that can be tailored to meet specific application needs. All reflectors systems include 95% reflective specular Alanod MIRO® 4. Reflector warranted for 25 years.

Focus - Precision control narrow distribution for maximum punch in tight spaces.

Narrow - Standard distribution for narrow distribution in narrow aisles or higher mounting heights.

Medium - Ideal for wide aisle or medium mounting heights. High reflectance specular.

Wide - The best choice for medium mounting heights in general or open spaces at medium to low mounting heights.

Reflector choices include uplight or direct. No uplight options include 2-3% uplight for heat management venting.

Suitable for single monopoint or two-point fixture mounting, chain, cable or monopoint hangers.

Lamp shielding option is available with hinge and rotary cam latches for easy access to optical system. Lenses are held in place with lens clips.

Option fixture housing with aluminum construc-

Listings

UL Listed to US and Canadian safety standards.

SPEC-BEAN



SPEC-BEAM"

Example: FSB 654L

Options

fusings

Emergency battery

Internal fast blow

OnePass® Installed9

Occupancy sensor

Occupancy sensor

construction, PAF

Powder coat after

Wireguard, 11 gauge,

Wiring leads through

hanger when using

hanger as a wiring

connection point)

center of fixture (For use with monopoint

Aluminum

fabrication

PAF

prewired 360° area for 25'9

prewired aisle wedges

pack (1400 Lumens)8

EL14

OCS

MSIA

MSI360

AL

WGI

OUTCTR



Ordering Information

Series FSB SPEC-**BEAMTM** La 25 3 4 6 2 3

Photometric distribution (blank) Narrow distribution with upliaht 0.9<SC<1.2 NDS Narrow distribution no uplight0.9<SC<1.22 Medium distribution with KD uplight $1.2 \le SC \le 1.4$ KDS Medium distribution no uplight $1.2 \le SC \le 1.4^2$

Lamp shielding⁴ (blank) No shielding A12 Pattern 12 acrylic⁵ ACL Clear acrylic, 0.125" Clear polycarbonate,

0.125

Ballast type <u>T5H0</u> (blank) Program start. 1.0 BF T8 Instant start, (blank) 1.2 BF **GEB10IS** Instant start. 0.88 BF

Ballast configuration

Standard

configuration

(see chart)

(2) 3-lamp

hallast

ballast

2/2 (2) 2-lamp

2/3

Lamps installed T5H0 (blank) F54T5H0/841 LP830 F54T5H0/830 LP835 F54T5H0/835

LP850 F54T5H0/850 T5H0 Amalgam LP830A F54T5H0/830

LP835A F54T5H0/835 LP841A F54T5H0/841 T8

(blank) F32T8/741 LP730 F32T8/730 F32T8/735 I P735

NOTES:

Lamps installed are F54T5HO/841 for T5HO or F32T8/741 for T8. All T5H0 fixtures ship lamped.

No uplight reflectors options incorporate heat managing venting above the fixture that produce 2-3% uplight.

T5H0 lamps only

Lamp shielding is provided in door frame.

A12 not available with WD and WDS distribution.

120-277 volt.

For use with T5HO. Consult factory for T8.

UL Listed for 40 °C only. Consult factory for 6-lamp fixtures.

Specify voltage.

Number of lamps/wattage		SD Spread distribution with			Voltage			
Lamps i	nstalled ¹		uplight 1.4	<sc<u><1.8</sc<u>		(blank)	MVOLT ⁶	
254L	2-lamp, 54W T5H0	SDS	Spread dist	ribution no		120	120 volt	
354L	3-lamp, 54W T5H0		uplight 1.4	<sc<u><1.8²</sc<u>		277	277 volt	
454L	4-lamp, 54W, T5H0	WD	Wide distrib			347	347 volt	
654L	6-lamp, 54W T5H0		uplight 1.8<			480	480 volt7	
232L	2-lamp, 32W T8	WDS	Wide distribuplight 1.8					
332L	3-lamp, 32W T8	TD	Focus distril					
432L	4-lamp, 32W T8	עו	uplight SC<					
632L	6-lamp, 32W T8	TDS	Focus distril					
<u>Unlamp</u>	<u>ed</u>	100	uplight SC<					
232	2-lamp, 32W T8							
332	3-lamp, 32W T8	Acc	essories		(Order a	s separate	catalog n	umber)
432	4-lamp, 32W T8		FSBAC120	Aircraft cable 10' Y har	naer (one	pair)		
632	6-lamp, 32W T8		FSBAC240	Aircraft cable 20' Y har	,			
			HSD36	Chain hanger, 36"				

Monopoint hanger w/top opening

Side covers for Monopoint hanger (For use with Monopoint

hanger when using hanger as a wiring connection point)

Monopoint hanger w/3/4" hub

THSD

THSDHB

THSDSK

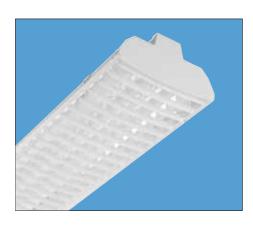
	Availability and Dimensions					
Nominal size	Series	Number of lamps	Lamp type	Height		
12"x4"	FSB 2	2	32, 54T5H0	4.7"		
	FSB 3	3	32, 54T5H0	4.7"		
16"x4"	FSB 4	4	32, 54T5H0	4.7"		
24"x4"	FSB 6	6	32, 54T5H0	4.7"		

Availability and Disconsions

		Standard Balla	st Configuration Chart	
Lamp type	2-lamp	3-lamp	4-lamp	6-lamp
T5H0	(1) 2-lamp ballast	(1) 3-lamp ballast	(1) 4-lamp ballast	(1) 4-lamp ballast and (1) 2-lamp ballast
T8 (0.88)	(1) 2-lamp ballast	(1) 3-lamp ballast	(1) 4-lamp ballast	(1) 4-lamp ballast and (1) 2-lamp ballast
T8 (1.2)	(1) 2-lamp ballast	(1) 3-lamp ballast	(2) 2-lamp ballasts	(2) 3-lamp ballasts



MS5HB/ MS8



Intended Use

Intended for use in retail stores, warehouses and manufacturing applications where high lumen package in a compact fixture design is required. Ideal for mounting heights up to 35 feet in controlled ambient facilities. Recommended for climate control spaces.

Features

Available in 2 or 3-lamp cross-section.

White straight blade louver assembly provides shielding and reduces brightness. Louver assembly is hinged and latched for easy servicing.

20-gauge housing/reflector provides rugged construction.

Narrow distribution for aisle applications or wide distribution for general areas, direct or uplight versions available.

Sockets feature rotating collars and enclosed contacts.

For individual or row mounting, a variety of hanging methods such as tong hangers, aircraft cable or stems available.

Listings

UL Listed (standard). CSA Certified (see Options).

Ordering Information

Series Distribution Lamp type MS5HB T5 low-profile **32** 32WT8 **ND** Narrow direct/indirect (48'')**WD** Wide MS5HBST T5 low-profile **54T5H0** 54W T5H0 solid top1 (46'')MS8 T8 low-profile direct/indirect MS8ST T8 low-profile solid top For tandem double-length unit, add prefix T. Example: TMS5HB Number of lamps Configuration (blank) No louver SBL White straight Not included blade louver assembly

Example: TMS5HB 3 54T5HO SBL ND MVOLT 1/41/2 GEB10PS

	_				_			
Voltage			Balla	ast type			Options	
MVOLT 347 480		GEB10		T5 electronic ballast, program start T8 electronic ballast, instant start		GLR GMF EL55	Internal fast blow fuse Internal slow blow fus T5 emergency battery pack (nominal 1250 lumens) CSA Certified	e³
Ва	allast config	guration						
(blank) 1/3 1/4 1/41/2	All 2-lamp One 3-lam One 4-lam One 4-lam one 2-lam	np ballast np ballast np balllast and						

2/3 Two 3-lamp ballasts

- 1 Available in 2 lamp only.
- ${\it 2}\quad {\it Odd lamp configurations will include a lamp ballast}.$
- 3 Specify voltage.

Accessories	(Order separately)
MSHBAC_	Adjustable aircraft cable support (non-feed), (specify length as 36 , 72 or 120 inches).
MSHBACF_	Aircraft cable feed and support, (specify length as 36 , 72 or 120 inches).
THMS5HB	Tong hanger.
SQ_	Swivel stem hanger (specify length in 2" increments.
HC36	Chain hanger — 36".
WGMS5HB2	4' wire guard for MS5HB, zinc coated. (Two required for 8' lengths)
WGMS8Z	4' wire guard for MSB, zinc coated. (Two required for 8' lengths)

Availability and Dimensions									
Series	Lamps per cross-section	Lamps per fixture	Lamp type	Width in.	Depth in.	Length in.			
MS5HB	2, 3	2, 3	54T5H0	9¾	41/4	461/16			
TMS5HB	2, 3	4, 6	54T5H0	9¾	41/4	921/8			
MS5HBST	2	2	54T5H0	9¾	41/4	461/16			
TMS5HBST	2	4	54T5H0	9¾	41/4	921/8			
MS8	2, 3	2, 3	32	9¾	41⁄4	48			
TMS8	2,3	4, 6	32	9¾	41⁄4	96			



FAL luminaires are designed to deliver peak optical performance with maximum efficiency and beam control in industrial, commercial, and institutional applications with mounting height up to 50'. Using high performance optics can reduce the number of fixtures required and maximize energy savings.

Features

Patented T5HO Cool Running™ Technology for elevated ambient operation up to 55°C will soon be available. Available in three lengths: 8′, 12′ and 16′. 12′ assembly includes a 4′ and 8′ section, 16′ assemblies include two 8′ assemblies. Fixtures are joined together in the field with rigid internal brackets using 8 screws. All assemblies require only two support points. See accessories below.

Reflector is precision-formed, high-performance, 95% total reflectance, and segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

One lamp cross section with focused beam.

For suspension by chain or cable.

Tool-less ballast and wiring access.

Internal occupancy sensors standard. T8 fixtures that are specified with internal sensors are 6" longer.

Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Listings

UL Listed to US and Canadian safety standards.







Ordering Information

Series

FAL Aisle lighter, 8'
FAL12 Aisle lighter, 12'
FAL16 Aisle lighter, 16'

Wattage/lamps

Lamps installed¹

54L 54WT5H0

32L 32W T8

Unlamped 54W T5HO 32 32W T8

Distribution

(blank) Focus
distribution
no uplight,
SC < 0.9

Voltage (blank) MVOLT² **347** 347 volt **480** 480 volt³

Accessories

FSBAC120

FSBAC240

HSD36

WGFAL

(Order as separate catalog number)

Aircraft cable 10' Y hanger (one pair)

Aircraft cable 20' Y hanger (one pair)

Chain hanger, 36"

Wireguard, 43"6

<u>T5H0</u>

Ballast type

(blank) Program

start, 1.0 BF

Ballast configuration
(blank) Standard
configuration (see chart)
1/4 One 4-lamp ballast
2/2 Two 2-lamp
ballasts

Options

EL14 Emergency battery pack (1400 lumens)⁴

GLR Internal fast blow fuse⁵

OCS OnePass® installed⁵

MSIA Occupancy sensor prewired aisle wedge⁵

PAF Powder coat after fabrication

Wireguard, 11 gauge, PAF

Example: FAL 54L

Lamps installed

T5H0

(blank) F54T5H0/841 **LP830** F54T5H0/830 **LP835** F54T5H0/835 **LP850** F54T5H0/850

T5HO Amalgam

LP841A F54T5H0/841 **LP830A** F54T5H0/830 **LP835A** F54T5H0/835

T8

(blank) F32T8/741 **LP730** F32T8/730 **LP735** F32T8/735

- 1 Lamps installed are F54T5H0/841 for T5H0 or F32T8/741 for T8.
- 2 120-277volt
- $3\quad For use with T5H0. Consult factory for use with T8.$
- 4 ULListed for 40° Cambient.
- 5 Specifyvoltage
- 6 Not for use with sensors.

Availability and Dimensions						
Nominal Fixture Number size Series configuration of lamp						
7.2"x8'	FAL	8' section	2			
7.2"x12'	FAL 12	4' + 8' section	3			
7.2"x16'	FAL 16	(2) 8' sections	4			

Standard Ballast Configuration Chart						
Lamp type 8' 12' 16'						
T5H0	(1) 2-lamp ballast	(1) 3-lamp ballast	(1) 4-lamp ballast			
T8 (0.88)	(1) 2-lamp ballast	(1) 3-lamp ballast	(1) 4-lamp ballast			
T8 (1.2)	(1) 2-lamp ballast	(1) 3-lamp ballast	(2) 2-lamp ballasts			



MS₅



Intended Use

Use in surface or suspended applications such as retail, manufacturing or renovation that require high light levels in a compact luminaire design.

Features

Compact, low-profile design. High fixture performance

Extended-height end caps for socket support. Full end cap available.

High-gloss baked white enamel or galvanized finish

Choice of 1 or 2 lamps in 2', 3', 4' or 8' lengths.

Available reflectors include white, specular or galvanized finishes in solid or perforated styles.

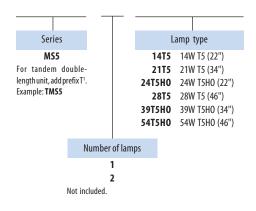
White straight blade louver available for applications requiring additional shielding and cutoff.

Aircraft cable mounting hardware available.

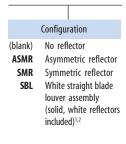
Listings

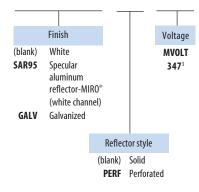
UL Listed (standard). CSA Certified (see Options).

Ordering Information



Example: MS5 1 54T5HO SMR MVOLT GEB10PS





	Options
CERARRO	•
GEB10PS	Electronic ballast,
	program start
GLR	Internal fast blow fuse4
GMF	Internal slow blow fuse4
EL55	Emergency battery pack
	(nominal 390-700 lumens) 1,4,
CSA	CSA Certified
See page 113 for	others.

NOTES:

- 1 Only available on 28W and 54W.
- 2 Finish and reflector type not applicable.
- 3 Available with 54T5H0 lamp type only.
- 4 Specify voltage.
- 5 Not available in Canada.
- 6 Not for use in combination with reflector.
- 7 Available with 3′, 4′ and 8′ lengths only.
- 8 120-277V only for power feed.
- 9 Standard wire size for power feed is 18 gauge. For 12 gauge add 12AWG to the end of catalog number. Consult factory for length of runs and required wire size.
- 10 Based on SMR reflector.

Accessories	(Order separately)

WGMS5Z Wireguard, 4', zinc⁶
THMS5 Tong hanger (1 pair)

MS5EP Full depth end plate for standard reflector (1 pair)

MS5EP SBL Full depth end plate for louvered reflector (1 pair)

1B Ceiling spacer (adjusts 1-1/2" to 2-1/2" from ceiling)

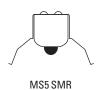
SQ_ Swivel stem hanger (specify length in 2" increments)

MS5ACF_ Adjustable aircraft cable system with power feed (specify length as 36, 72 or 108 inches) 78.9

MS5AC_ Adjustable aircraft cable system (specify 36, 72 or 108 inches)9



MS5 SBL



Availability and Dimensions ¹⁰									
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)		
2′	MS5	1, 2	1, 2	14T5, 24T5H0	4¾ (12.1)	$2^{13}/_{16}$ (7.1)	227/16 (56.9)		
3′	MS5	1, 2	1, 2	21T5, 39T5H0	4¾ (12.1)	$2^{13}/_{16}$ (7.1)	34¼ (87)		
4′	MS5	1, 2	1, 2	28T5, 54T5H0	4¾ (12.1)	$2^{13}/_{16}$ (7.1)	46 ¹ / ₁₆ (116.9)		
8′	MS5	1, 2	2, 4	28T5, 54T5H0	4¾ (12.1)	2 ¹³ / ₁₆ (7.1)	921/16 (233.7)		



Use for coves, displays or any application requiring a low-profile luminaire that provides high light levels. Ideal for commercial, retail or manufacturing.

Features

Compact, low-profile design. High fixture performance

Available in standard or staggered channels. Staggered design includes 4" stagger for uninterrupted continuous illumination.

Extended-height end caps for socket support.

High-gloss baked white enamel or galvanized finish. Heavy-duty 20-gauge channel.

Choice of 1 or 2 lamps in 2', 3', 4' or 8' lengths.

Listings

UL Listed (standard). CSA Certified (see Options).





Ordering Information

Series

MS5 Standard channel

MS5SS Staggered
channel

For tandem double-length unit, add prefix **T**.¹ Example: **TMS5**

Number of lamps

1
2
Not included

Lamp type

14T5 14W T5 (22")

21T5 21W T5 (34")

24T5H0 24W T5H0 (22")

28T5 28W T5 (46")

39T5H0 39W T5H0 (34")

54T5H0 54W T5H0 (46")

Voltage

MVOLT

347²

Options

GEB10PS Electronic ballast, program start

GLR Internal fast blow fuse³

GMF Internal slow blow fuse³

EL55 Emergency battery pack (nominal 390-700 lumens)^{3,4}

CSA CSA Certified

Seepage 113 for others.

NOTES:

- 1 Only available on 28W and 54W.
- 2 Available with 54T5H0 lamp type only.
- 3 Specify voltage.
- 4 Not available in Canada.
- 5 For other lengths, replace 48 with correct length required; nominal 2'=24, 3'=36. Two reflectors required for 8' lengths.

Availability and Dimensions							
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
2′	MS5SS	1, 2	1, 2	14T5, 24T5H0	2 (5.1)	21/4 (5.7)	22½ (57.1), 26½ (67.3)
	MS5	1, 2	1, 2	14T5, 24T5H0	2 (5.1)	21/4 (5.7)	227/16 (56.9)
3′	MS5SS	1, 2	1, 2	21T5, 39T5H0	2 (5.1)	21/4 (5.7)	34¼ (87), 38¼ (97.1)
	MS5	1, 2	1, 2	21T5, 39T5H0	2 (5.1)	21/4 (5.7)	341/4 (87)
4′	MS5SS	1, 2	1, 2	28T5, 54T5H0	2 (5.1)	21/4 (5.7)	46 ¹ / ₁₆ (117), 50 ¹ / ₁₆ (127.2)
4	MS5	1, 2	1, 2	28T5, 54T5H0	2 (5.1)	21/4 (5.7)	46 ¹ / ₁₆ (117)
8′	MS5SS MS5	1, 2 1, 2	1, 2 2, 4	28T5, 54T5H0 28T5, 54T5H0	2 (5.1) 2 (5.1)	2¼ (5.7) 2¼ (5.7)	88 ¹ / ₁₆ (223.7), 96 ¹ / ₁₆ (243.8) 92 ¹ / ₁₆ (233.7)

Accessories (Order separately) WGMS5Z Wireguard, 4', zinc THMS5 Tong hanger (1 pair) Ceiling spacer (adjusts 1-1/2" to 2-1/2" 1B from ceiling) SQ__ Swivel stem hanger (specify length in 2" increments) MS5SSASR 2 48 Asymmetric reflector for staggered, 4', two-lamp configuration 1,5 Asymmetric reflector for staggered, 4', MS5SSASR 1 48 one-lamp configuration⁵



Standard Striplights





Intended Use

For applications that require medium illumination levels and narrow construction. Suitable for general or task lighting.

Features

Slim channel for easy handling in unit or row, ceiling or wall-mount applications.

High-gloss, baked enamel finish.

Combination end plate/channel connector furnished.

White or specular reflectors available.

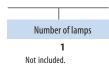
Channel cover retained by quarter-turn fastener.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

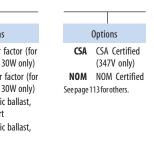
Ordering Information

Series					
S					
For tandem double-length unit, add					
prefix T.1 Example: TS					



	Lamp type
15	15W T12 (18")
15PH	15W T12 (18")
17	17W T8 (24")
20	20W T12 (24")
20PH	20W T12 (24")
25	25W T8 (36")
30	30W T12 (36")
30PH	30W T12 (36")
32	32W T8 (48")

Voltage	E	Ballast options
MVOLT 120 277 347	LPF HPF	Low power factor (fo 15W, 20W, 30W only) High power factor (fo 15W, 20W, 30W only)
347	GEB10IS	T8 electronic ballast, instant start
	GEB10RS	T8 electronic ballast, rapid start



Example: S 1 32 MVOLT GEB10IS

- 1 Order two 36" reflectors for 72" fixtures and two 48" reflectors for 96" fixtures
- 2 Maximum depth to center of lamps.

Reflector	r Accessories				(Ord	er separately)
Doff	lactor type		Length		E	inish
SASR SSMR	.,		24 24" nominal 36 36" nominal		(blank)	White Specular
SSIVIK	Symmetric		48" nominal ¹		33N	silver, steel



			Availal	oility and Dimension	S		
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ² in. (cm)	Length in. (cm)
1½′	S	1	1	15,15PH	2¾ (7.0)	2¾ (7.0)	18 (45.7)
2′	S	1	1	17, 20, 20PH	2¾ (7.0)	2¾ (7.0)	24 (61.0)
3′	S	1	1	25, 30	2¾ (7.0)	2¾ (7.0)	36 (91.4)
4′	S	1	1	32	2¾ (7.0)	2¾ (7.0)	48 (121.9)
6′	TS	1	2	25,30	2¾ (7.0)	2¾ (7.0)	72 (182.9)
8'	TS	1	2	32	2¾ (7.0)	2¾ (7.0)	96 (243.8)



For applications that require low to medium illumination levels. Suitable for general purpose applications.

Features

Steel channel (standard) with high-gloss, baked enamel finish.

Optional aluminum channel available - features corrosion-resistant fasteners for use in damp and harsh locations.

Combination end plates/channel connector furnished for either unit-mounted or continuousrow application.

White or specular reflectors available.

Channel cover retained by quarter-turn fastener.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V - see Options). NOM Certified (see Options).

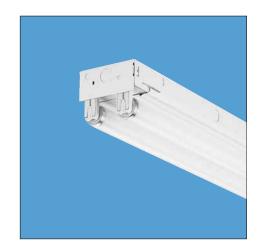
Voltage

MVOLT

120

277

347



Example: C 2 32 MVOLT GEB10IS

Ordering Information

Series C For optional aluminum channel, add suffix AL to catalog number. Example C2 96 120 AL. See

For tandem double-length unit, add prefix T.1 Example: TC

Lamp type 17W T8 (24") 17 20W T12 (24") 20 24H0 35W T12 800mA (24")² 25 25W T8 (36") 30 30W T12 (36") 32W T8 (48") 32 36H0 45W T12 800mA (36")2 39W T12 slimline (48") 48 60W T12 800mA (48")2 48H0 72 55W slimline (72") 85W T12 800mA (72")2 72H0 110W T12 800mA (96")2 96H0 59W T8 slimline (96") 96T8 86W T8 380mA (96")2 96T8H0

Ballast options 1/4 One 4-lamp ballast GEB10IS T8 electronic ballast, instant start **GEB10RS** T8 electronic ballast, rapid start LPF Low power factor (for 20W or 30W only) **HPF** High power factor (for 20W or 30W only)

Reflector Accessories

Reflector type

CSMR

Asymmetric

Symmetric

Options AL Aluminum body CSA CSA Certified (347V only) NOM NOM Certified See page 113 for others.

(Order separately)

Finish

SSR Specular

silver, steel

(blank) White

NOTES:

- 1 Tandem CF lamp types available in one-lamp only.
- 2 HO models available with aluminum channel only or steel channel with electronic ballast.
- 3 Order two 36" reflectors for 72" fixtures and two 48" reflectors for 96" fixtures.
- 4 Maximum depth to center of lamps.

Availability and Dimensions									
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ⁴ in. (cm)	Length in. (cm)		
2′	C/C AL	1, 2	1, 2	17,20	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	24 (61.0)		
	C AL	1, 2	1, 2	24H0	4 ³ / ₁₆ (10.6)	3 ¹⁵ / ₁₆ (9.6)	24 (61.0)		
3′	C/C AL	1, 2	1, 2	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	36 (91.4)		
	TC AL	1, 2	1, 2	36H0	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	36 (91.4)		
4′	C/C AL	1, 2	1, 2	32, 48	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	48 (121.9)		
	C AL	1, 2	1, 2	48H0	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	48 (121.9)		
6′	TC/TC AL	1	2	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)		
	TC/TC AL	2	4	25, 30	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)		
	C/C AL	1,2	1,2	72	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	72 (182.9)		
	C AL	1,2	1,2	72H0	4 ³ / ₁₆ (10.6)	3 ¹³ / ₁₆ (9.6)	72 (182.9)		
8′	TC/TC AL	1	2	32	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)		
	TC/TC AL	2	4	32	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)		
	C/C AL	1,2	1, 2	96T8, 96T8H0	4 ³ / ₁₆ (10.6)	2 ¹⁵ / ₁₆ (7.5)	96 (243.8)		

96H0

43/16 (10.6)



Length

24 24" nominal

36 36" nominal³

48 48" nominal³

96 (243.8)

 $3^{13}/_{16}$ (9.6)

C AL

1, 2

1, 2

UNS/UND/ UN



Intended Use

Use for applications requiring high illumination in medium to high mounting heights and a rugged, heavy-duty strip design.

Features

Heavy-duty formed channel with high-gloss, baked enamel finish.

Lampholders secured by screwed-on end plates.

Channel connector furnished for continuous mounting.

Symmetric or asymmetric reflectors available.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Ordering Information

UNS 1 or 2 lamps, T12 and T8 rapid start and slimline, standard width
UND 1 or 2 lamps, T12 H0 or VH0, standard width
UN 3 or 4 lamps, T12 and T8, wide

2UN 2 lamps, T12 and T8, wide channel

Number of lamps

1
2

4

Lamp type 17 17W T8 (24") **48** 38W T12 slimline (48") 20 20W T12 (24") 48HO 60W T12 800mA (48") 24 24W T12 slimline (24") **48VHO** 110W T12 1500mA (48") 24H0 35W T12 800mA (24") **72** 55W T12 slimline (72") **72H0** 85W T12 800mA (72") 25 25W T8 (36") **30** 30W T12 (36") **96T8** 96W T8 slimline (96") **96T8H0** 96W T8 T8H0 (96") **32** 32W T8 (48") 36W T12 slimline (36") 96H0 110W T12 800m A (96") 36HO 45W T12 800mA (36") 96VHO 210W T12 1500m A (96") Voltage

MVOLT
1/3 One 3-lamp ballast
120
1/4 One 4-lamp ballast
277
ES T12 energy-saving ballast
GEB10IS T8 electronic ballast, instant start
GEB10RS T8 electronic ballast, rapid start
CSA CSA Certified (347V only)

Example: UND 2 96H0 120 ES CW20

CSA CSA Certified (NOM NOM Certified Seepage 113 for others.

Lamps per cross Lamp per cross Lam				Availability and Dimensions	;		
Series Section				Lamp	Width	Depth ¹	Length
UND 1,2 1,2 24H0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 24(69.9) UN 3,4 3,4 17,20,24 4 ¹ / ₈ (11.1) 3 ³ / ₄ (9.5) 24 (69.9) UNS 1,2 1,2 25,30,36 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 36 (91.4) UND 1,2 1,2 36H0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 36 (91.4) UN 3,4 3,4 25,36,36H0 4 ¹ / ₈ (11.1) 3 ³ / ₁₆ (9.3) 36 (91.4) UNS 1,2 1,2 32,48 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UND 1,2 1,2 48H0,48VH0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UN 3,4 3,4 3,4 32,48,48H0 9 (22.9) 3 ³ / ₄ (9.5) 48 (121.9) UNS 1,2 1,2 72 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UNS 1,2 1,2 72H0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72H0 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8H0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UND 1,2 1,2 96H0, 96VH0 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₈ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 192 (487.7) TUND 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 192 (487.7)	Series	section	fixture		in. (cm)		in. (cm)
UN 3,4 3,4 17,20,24 4/s (11.1) 3/4 (9.5) 24 (69.9) UNS 1,2 1,2 25,30,36 4/s (11.1) 3/7.6 36 (91.4) UND 1,2 1,2 36H0 4/s (11.1) 3/1/16 (9.3) 36 (91.4) UN 3,4 3,4 25,36,36H0 4/s (11.1) 3/1/16 (9.3) 36 (91.4) UNS 1,2 1,2 32,48 4/s (11.1) 3/1/16 (9.3) 48 (121.9) UND 1,2 1,2 48H0,48VH0 4/s (11.1) 3/1/16 (9.3) 48 (121.9) UN 3,4 3,4 3,4 32,48,48H0 9 (22.9) 3/4 (9.5) 48 (121.9) UNS 1,2 1,2 72 4/s (11.1) 3/1/16 (9.3) 48 (121.9) UNS 1,2 1,2 72 4/s (11.1) 3/1/16 (9.3) 72 (182.9) UND 1,2 1,2 72H0 4/s (11.1) 3/1/16 (9.3) 72 (182.9) UN 3,4 3,4 72,72H0 9 (22.9) 3/4 (9.5) 72 (182.9) UNS 1,2 1,2 96H0, 96VH0 4/s (11.1) 3/1/16 (9.3) 96 (243.8) UND 1,2 1,2 96H0, 96VHO 4/s (11.1) 3/1/16 (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8H0, 96VHO 4/s (11.1) 3/1/16 (9.3) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3/4 (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3/4 (9.5) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/6,6) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUN 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (11.1) 3/s (9.5) 96 (243.8) TUNS 1,2 2,4 96H0, 96VHO 4/s (11.1) 3/s (11.1) 3/s (9.5) 96 (243.8)	UNS	1, 2	1, 2	17, 20, 24	43/8 (11.1)	3 (7.6)	24 (69.9)
UNS 1,2 1,2 25,30,36 4 ¹ / ₈ (11.1) 3 (7.6) 36 (91.4) UND 1,2 1,2 36HO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 36 (91.4) UN 3,4 3,4 25,36,36HO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 36 (91.4) UNS 1,2 1,2 32,48 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UND 1,2 1,2 48HO, 48VHO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UN 3,4 3,4 3,4 32,48,48HO 9 (22.9) 3 ³ / ₄ (9.5) 48 (121.9) UNS 1,2 1,2 72 4 ¹ / ₈ (11.1) 3 (7.6) 72 (182.9) UNS 1,2 1,2 72HO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72HO 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8HO 4 ¹ / ₈ (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO ¹ 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7)	UND	1, 2	1, 2	24H0	43/8 (11.1)	$3^{11}/_{16}(9.3)$	24(69.9)
UND 1,2 1,2 36H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 36 (91.4) UN 3,4 3,4 25,36,36H0 4 ³ / ₈ (11.1) 3 ³ / ₄ (9.5) 36 (91.4) UNS 1,2 1,2 32,48 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 48 (121.9) UND 1,2 1,2 48H0, 48VH0 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 48 (121.9) UN 3,4 3,4 3,4 32,48,48H0 9 (22.9) 3 ³ / ₄ (9.5) 48 (121.9) UNS 1,2 1,2 72 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72H0 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 72 (182.9) UNS 1,2 1,2 72H0 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 72H0 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8H0 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 ⁷ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8H0 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) UN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7)	UN	3, 4	3, 4	17, 20, 24	43/8 (11.1)	3¾ (9.5)	24 (69.9)
UN 3,4 3,4 25,36,36HO 4½ (11.1) 3¾ (9.5) 36 (91.4) UNS 1,2 1,2 32,48 4⅓ (11.1) 3(7.6) 48 (121.9) UND 1,2 1,2 48HO, 48VHO 4⅓ (11.1) 31⅓ (9.5) 48 (121.9) UN 3,4 3,4 3,4 32,48,48HO 9 (22.9) 3¾ (9.5) 48 (121.9) UNS 1,2 1,2 72 4⅓ (11.1) 3(7.6) 72 (182.9) UND 1,2 1,2 72HO 4⅓ (11.1) 31⅓ (9.3) 72 (182.9) UND 1,2 1,2 72HO 4⅓ (11.1) 31⅓ (9.3) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 96HO, 96VHO¹ 4⅓ (11.1) 3(7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO¹ 4⅓ (11.1) 31⅓ (9.3) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 96HO, 96VHO¹ 4⅓ (11.1) 3 (7.6) 96 (243.8) TUN 1,2 2,4 96HO, 96VHO¹ 4⅓ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO¹ 4⅓ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO¹ 4⅓ (11.1) 3 (7.6) 192 (487.7)	UNS	1, 2	1, 2	25, 30, 36	43/8 (11.1)	3 (7.6)	36 (91.4)
UNS 1,2 1,2 32,48 4 ¹ / ₈ (11.1) 3 (7.6) 48 (121.9) UND 1,2 1,2 48HO, 48VHO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 48 (121.9) UN 3,4 3,4 32,48,48HO 9 (22.9) 3 ³ / ₄ (9.5) 48 (121.9) UNS 1,2 1,2 72 4 ¹ / ₈ (11.1) 3 (7.6) 72 (182.9) UND 1,2 1,2 72HO 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72HO 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8HO 4 ¹ / ₈ (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO¹ 4 ¹ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UND 1,2 1,2 96HO, 96T8, 96T8HO 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96HO, 96VHO¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7)	UND	1, 2	1, 2	36H0	43/8 (11.1)	$3^{11}/_{16}(9.3)$	36 (91.4)
UND 1,2 1,2 48H0, 48VH0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9,3) 48 (121.9) UN 3,4 3,4 3,4 32,48,48H0 9 (22.9) 3 ³ / ₄ (9.5) 48 (121.9) UNS 1,2 1,2 72 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UNS 1,2 1,2 72H0 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 96T8H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UND 1,2 1,2 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) UN 1,2 2 4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8H0 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7)	UN	3, 4	3, 4	25, 36, 36HO	43/8 (11.1)	3¾ (9.5)	36 (91.4)
UN 3,4 3,4 3,4 32,48,48HO 9 (22.9) 3¾ (9.5) 48 (121.9) UNS 1,2 1,2 72 4½ (11.1) 3 (7.6) 72 (182.9) UND 1,2 1,2 72HO 4⅓ (11.1) 31⅓ (9.5) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 96T8HO 4⅓ (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO¹ 4⅓ (11.1) 31⅓ (9.3) 96 (243.8) UND 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 96T8HO 4⅓ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96T8HO 4⅓ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96T8HO 4⅓ (11.1) 3 (7.6) 192 (487.7)	UNS	1, 2	1, 2	32, 48	43/8 (11.1)	3 (7.6)	48 (121.9)
ZUN 2 2 32,48,48HO 9 (22.9) 3¾ (9.5) 48 (121.9) UNS 1, 2 1, 2 72 4³/s (11.1) 3 (7.6) 72 (182.9) UND 1, 2 1, 2 72HO 4³/s (11.1) 3¹¹/₁6(9.3) 72 (182.9) UN 3, 4 3, 4 72,72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1, 2 1, 2 96T8HO 4³/s (11.1) 3 (7.6) 96 (243.8) UND 1, 2 1, 2 96HO, 96VHO¹ 4³/s (11.1) 3¹¹/₁6(9.3) 96 (243.8) UN 3, 4 3, 4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) 2UN 2 2 96HO, 96T8, 96T8HO, 96VHO¹ 4³/s (11.1) 3¾ (9.5) 96 (243.8) TUN 1, 2 2, 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3, 4 6, 8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3, 4 6, 8 32 9 (22.9) <t< td=""><td>UND</td><td>1, 2</td><td>1, 2</td><td>48H0, 48VH0</td><td>43/8 (11.1)</td><td>$3^{11}/_{16}(9.3)$</td><td>48 (121.9)</td></t<>	UND	1, 2	1, 2	48H0, 48VH0	43/8 (11.1)	$3^{11}/_{16}(9.3)$	48 (121.9)
UNS 1,2 1,2 72H0 4 ³ / ₈ (11.1) 3 ¹ / ₁₆ (9.3) 72 (182.9) UND 1,2 1,2 72H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UN 3,4 3,4 72,72H0 9 (22.9) 3 ³ / ₄ (9.5) 72 (182.9) UNS 1,2 1,2 96T8H0 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UND 1,2 1,2 96H0, 96VH0¹ 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) 2UN 2 2 96H0, 96T8, 96T8H0, 96VH0¹ 4 ³ / ₈ (11.1) 3 ³⁴ / ₉₅ 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3 ³ / ₄ (9.5) 96 (243.8) TUN 1,2 2,4 96T8H0 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0¹ 4 ³ / ₈ (11.1) 3 1 ¹ / ₁₆ (9.3) 192 (487.7)	UN	3, 4	3, 4	32, 48, 48HO	9 (22.9)	3¾ (9.5)	48 (121.9)
UND 1,2 1,2 72HO 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 72 (182.9) UN 3,4 3,4 72,72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 96T8HO 4 ³ / ₈ (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO¹ 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) UN 2 2 96HO, 96T8, 96T8HO, 96VHO¹ 4 ³ / ₈ (11.1) 3¾ (9.5) 96 (243.8) UN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) UN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8)		2		32, 48, 48HO	9 (22.9)	3¾ (9.5)	48 (121.9)
UN 3,4 3,4 72,72HO 9 (22.9) 3¾ (9.5) 72 (182.9) UNS 1,2 1,2 96T8HO 4³/s (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96HO, 96VHO¹ 4³/s (11.1) 3¹¹/₁6(9.3) 96 (243.8) UN 3,4 3,4 96HO, 96T8, 96T8HO 9 (22.9) 3¾ (9.5) 96 (243.8) 2UN 2 2 96HO, 96T8, 96T8HO, 96VHO¹ 4³/s (11.1) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8)	UNS	1, 2	1, 2	72	43/8 (11.1)	3 (7.6)	72 (182.9)
UNS 1,2 1,2 96T8H0 4½ (11.1) 3 (7.6) 96 (243.8) UND 1,2 1,2 96H0, 96VH0¹ 4⅓ (11.1) 3¹¹⅓ (9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3¾ (9.5) 96 (243.8) 2UN 2 2 96H0, 96T8, 96T8H0, 96VH0¹ 4⅓ (11.1) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8)	UND	1, 2	1, 2	72H0	43/8 (11.1)	$3^{11}/_{16}(9.3)$	72 (182.9)
UND 1,2 1,2 96H0, 96VH0¹ 4⅓s (11.1) 3¹¹⅓s(9.3) 96 (243.8) UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3¾ (9.5) 96 (243.8) 2UN 2 2 96H0, 96T8, 96T8H0, 96VH0¹ 4⅓s (11.1) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 5,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 5,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,2 4 96T8H0 4⅓s (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0¹ 4⅓s (11.1) 3¹¹⅓s (9.3) 192 (487.7)	UN	3,4	3, 4	72,72H0	9 (22.9)	3¾ (9.5)	72 (182.9)
UN 3,4 3,4 96H0, 96T8, 96T8H0 9 (22.9) 3¾ (9.5) 96 (243.8) 2UN 2 2 96H0, 96T8, 96T8H0, 96VH0¹ 4³/s (11.1) 3¾ (9.5) 96 (243.8) TUN 1,2 2,4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUNS 1,2 2,4 96T8H0 4³/s (11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0¹ 4³/s (11.1) 3¹¹/₁6(9.3) 192 (487.7)	UNS	1, 2	1, 2	96T8H0	43/8 (11.1)	3 (7.6)	96 (243.8)
ZUN 2 2 96H0, 96T8, 96T8H0, 96VH01 43/8 (11.1) 3¾ (9.5) 96 (243.8) TUN 1, 2 2, 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3, 4 6, 8 32 9 (22.9) 3¾ (9.5) 96 (243.8) T2UN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUNS 1, 2 2, 4 96T8H0 4³/8 (11.1) 3 (7.6) 192 (487.7) TUND 1, 2 2, 4 96H0, 96VH01 4³/8 (11.1) 31¹/16(9.3) 192 (487.7)	UND	1, 2	1, 2	96H0, 96VH0 ¹	43/8 (11.1)	$3^{11}/_{16}(9.3)$	96 (243.8)
TUN 1, 2 2, 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUN 3, 4 6, 8 32 9 (22.9) 3¾ (9.5) 96 (243.8) T2UN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUNS 1, 2 2, 4 96T8HO 4⅓ ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1, 2 2, 4 96H0, 96VHO¹ 4⅔/8 (11.1) 3¹¹⅓ ₁₆ (9.3) 192 (487.7)	UN	3, 4	3, 4	96H0, 96T8, 96T8H0	9 (22.9)	3¾ (9.5)	96 (243.8)
TUN 3,4 6,8 32 9 (22.9) 3¾ (9.5) 96 (243.8) T2UN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUNS 1,2 2,4 96T8H0 4½(11.1) 3 (7.6) 192 (487.7) TUND 1,2 2,4 96H0, 96VH0¹ 4½(8 (11.1)) 3¹¹¹/16(9.3) 192 (487.7)	2UN	2	2	96H0, 96T8, 96T8H0, 96VH0 ¹	43/8 (11.1)	3¾ (9.5)	96 (243.8)
T2UN 2 4 32 9 (22.9) 3¾ (9.5) 96 (243.8) TUNS 1, 2 2, 4 96T8H0 4³/ ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1, 2 2, 4 96H0, 96VH0¹ 4³/ ₈ (11.1) 3¹¹/ ₁₆ (9.3) 192 (487.7)		1, 2		32	9 (22.9)	3¾ (9.5)	96 (243.8)
TUNS 1, 2 2, 4 96T8H0 4 ³ / ₈ (11.1) 3 (7.6) 192 (487.7) TUND 1, 2 2, 4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 192 (487.7)					. ,	3¾ (9.5)	96 (243.8)
TUND 1,2 2,4 96H0, 96VH0 ¹ 4 ³ / ₈ (11.1) 3 ¹¹ / ₁₆ (9.3) 192 (487.7)	T2UN	2	4	32	9 (22.9)	3¾ (9.5)	96 (243.8)
, , , , , , , , , , , , , , , , , , , ,		1, 2				, ,	192 (487.7)
UN 3, 4 3, 4 96H0, 96T8, 96T8H0 9 (22.9) 3¾ (9.5) 192 (487.7)		1, 2	2, 4	96H0, 96VH0 ¹	$4^{3}/_{8}$ (11.1)	$3^{11}/_{16}(9.3)$	192 (487.7)
			3, 4	, , ,	, ,	, ,	, ,
T2UN 2 4 96H0, 96T8, 96T8H0, 96VH0 ¹ 9 (22.9) 3¾ (9.5) 192 (487.7)	T2UN	2	4	96H0, 96T8, 96T8H0, 96VH0 ¹	9 (22.9)	3¾ (9.5)	192 (487.7)

Availability and Dimensions

IOTES:

1 Fixture depth is 4 1/8" (10.5 cm).



Recessed open (or lensed) row system provides linear illumination for retail and other applications. On CRRS models, lamps are visible from street to attract attention to retail operations.

Features

Channel rests on standard 12" center-tocenter T-bar components. T-bar support required along length of fixture or row and across ends.

T-bar clips secure channel to ceiling system.

Bi-pin, slimline or 800mA lamps.

RR units shipped assembled in 2', 3', 4', 6' and 8' lengths for easy installation. End plates included and assembled on fixture.

CRR units provide a continuous row of illumination without interruption by end plates and cross tees.

In row wiring, connection is made through continuus channel. Access to ballast is through channel cover (retained by quarter-turn fasteners).

High-gloss, baked white enamel, die-embossed reflector.

CRRS units feature shallow continuous reflector design that drops lamp center even with ceiling plane.

Listings

UL Listed (standard). CSA Certified (see Options).

RR/CRR/ CRRS



Example: CRR 2 96T8 MVOLT GEB

Ordering Information

Series

RR Recessed row

CRR Continuous recessed row

CRRS Continuous recessed row, shallow

For tandem double-length unit, add prefix **T**. Example: **TCRR**.

Number of lamps 1 2 3 1

Not included.

Lamp type

17 17W T8 (24")
20 20W T12 (24")

24H0 35W 800mA (24")
25 25W T8 (36")
30 30W T12 (36")
32 32W T8 (48")

36H0 45W 800mA (36")
48 38W slimline (48")
48H0 60W 800mA (48")
72 55W slimline (72")
72H0 85W 800mA (72")
96H0 110W 800mA (96")

96T8 59W T8 slimline (96")

Diffuser type
(blank) Open channel
A12 #12 pattern
acrylic diffuser
(RR and CRR
only)

Voltage MVOLT 347

Options

1/4 One 4-lamp ballast

GEB Electronic ballast, ≤20% THD

(F96 T8 only)³

GEB10IS T8 electronic ballast, ≤10% THD,
instant start

GEB10PS T8 electronic ballast, ≤10% THD,
rapid start

CSA CSA Certified

Availability and Dimensions								
Nominal	Carrian	Lamps per cross	Lamps per	Lamp	Depth	Length		
length	Series	section	fixture	type	in.(cm)	in.(cm)		
	RR/CRR	1, 2, 3 ¹	1, 2, 3	17, 20	$5^{13}/_{16}(14.8)$	24 (61.0)		
2'	RR/CRR	1, 2	1, 2	24H0	61/8 (15.6)	24 (61.0)		
	CRRS	1, 2	1, 2	24H0	513/16(14.8)	24 (61.0)		
	RR/CRR	1, 2, 3 ¹	1, 2, 3	25,30	513/16(14.8)	36 (91.4)		
3'	RR/CRR	1, 2	1, 2	36H0	$6^{1}/_{8}(15.6)$	36 (91.4)		
	CRRS	1, 2	1, 2	36H0	$5^{13}/_{16}(14.8)$	36 (91.4)		
	RR/CRR	1, 2, 3 ¹	1, 2, 3	32, 48	513/16(14.8)	48 (121.9)		
4'	RR/CRR	1, 2	1, 2	48H0	$6^{1}/_{8}(15.6)$	48 (121.9)		
	CRRS	1, 2	1, 2	48H0	$5^{13}/_{16}(14.8)$	48 (121.9)		
	TRR/TCRR	1, 2, 3 ¹	2, 4, 6	25,30	513/16(14.8)	72 (182.9)		
6'	RR/CRR	1, 2	1, 2	72	$5^{13}/_{16}(14.8)$	72 (182.9)		
0	RR/CRR	1, 2	1, 2	72H0	$6^{1}/_{8}(15.6)$	72 (182.9)		
	CRRS	1, 2	1, 2	72H0	$5^{13}/_{16}(14.8)$	72 (182.9)		
	TRR/TCRR	1, 2, 3 ¹	2, 4, 6	32	513/16(14.8)	96 (243.8)		
8'	RR/CRR	1, 2	1, 2	96T8	$5^{13}/_{16}(14.8)$	96 (243.8)		
	RR/CRR	1, 2	1, 2	96H0	$6^{1}/_{8}(15.6)$	96 (243.8)		
	CRRS	1, 2	1, 2	96H0	513/16 (14.8)	96 (243.8)		
16'	TRR/TCRR	1, 2	2, 4	96T8	513/16(14.8)	192 (487.7) ²		
	TRR/TCRR	1, 2	2, 4	96H0	61/8 (15.6)	192 (487.7) ²		
	TCRRS	1, 2	2, 4	96H0	513/16(14.8)	192 (487.7) ²		

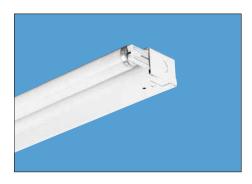
Accessories	(Order separately)
CRREP	End plates flanged to support ceiling tile (pair). Order one pair per row. Required on all CRR and CRRS installations.

See page 113 for others.

- 1 3-lamp models are T8 only.
- 2 Fixture is shipped in two 96" cartons, tandem-wired using quick-connect plugs (installed).
- 3 Specify voltage.



SM



Intended Use

Ideal for displays or any application with limited space.

Features

Low-profile body and side-mounted lamps permit installation in shallow spaces and provide good illumination.

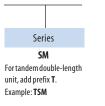
High-gloss, baked enamel finish.

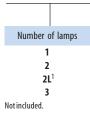
Channel cover secured by quarter-turn fasteners for easy access.

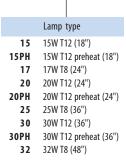
Listings

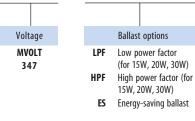
UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

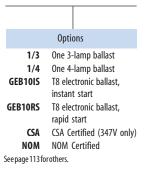
Ordering Information









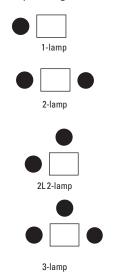


Example: SM 2 32 MVOLT ES

NOTES:

- 1 Llamp configuration, see below.
- 2 Maximum depth to center of lamps.

Lamp Configurations



Availability and Dimensions									
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ² in. (cm)	Length in. (cm)		
1½′	SM	1 2 2L	1 2 2	15,15PH 15,15PH 15,15PH	4½ (11.4) 6¼ (15.9) 4½ (11.4)	1 ¹¹ / ₁₆ (4.3) 1 ¹¹ / ₁₆ (4.3) 3 (7.6)	18 (45.7) 18 (45.7) 18 (45.7)		
2′	SM	1 2 2L	1 2 2	17, 20, 20PH 17, 20, 20PH 17, 20, 20PH	4½ (11.4) 6¼ (15.9) 4½ (11.4)	1 ¹¹ / ₁₆ (4.3) 1 ¹¹ / ₁₆ (4.3) 3 (7.6)	24 (61.0) 24 (61.0) 24 (61.0)		
3′	SM	3 1 2 2L 3	3 1 2 2 3	25, 30, 30PH 25, 30, 30PH 25, 30, 30PH 25, 30, 30PH 25, 30, 30PH	6¼ (15.9) 4½ (11.4) 6¼ (15.9) 4½ (11.4) 6¼ (15.9)	3 (7.6) 1 11/ ₁₆ (4.3) 1 11/ ₁₆ (4.3) 3 (7.6) 3 (7.6)	36 (91.4) 36 (91.4) 36 (91.4) 36 (91.4) 36 (91.4)		
4′	SM	1 2 2L 3	1 2 2 3	32 32 32 32	4½ (11.4) 6¼ (15.9) 4½ (11.4) 6¼ (15.9)	1 ¹¹ / ₁₆ (4.3) 1 ¹¹ / ₁₆ (4.3) 3 (7.6) 3 (7.6)	48 (121.9) 48 (121.9) 48 (121.9) 48 (121.9)		
8′	TSM	1 2 2L 3	2 4 4 6	32 32 32 32	4½ (11.4) 6¼ (15.9) 4½ (11.4) 6¼ (15.9)	1 11/ ₁₆ (4.3) 1 11/ ₁₆ (4.3) 3 (7.6) 3 (7.6)	96 (243.8) 96 (243.8) 96 (243.8) 96 (243.8)		



Staggered Striplights / Telescoping Staggered Striplights

Intended Use

Use for applications requiring uninterrupted illumination levels such as coves or displays.

Features

Channel is offset at both ends to accept adjoining fixtures in row applications.

Channel connectors furnished.

Lamps in adjacent fixtures overlap 4" to provide a continuous illumination.

High-gloss, baked-enamel finish.

Telescoping version provides even continuous environment without shadows.

Optional aluminum fixtures feature corrosionresistant fasteners for use in damp and harsh locations.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

SS/SST



Example: SS 2 32 MVOLT GEB10IS

Ordering Information

Series

SS Standard

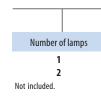
SST Telescoping

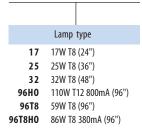
For optional aluminum channel, add suffix AL to catalog number.

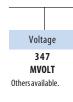
Example: SS2 96 120 AL

Fortandem-wired double length unit, add prefix T.

Example: TSS







Options					
1/4	One 4-lamp ballast				
GEB10IS	T8 electronic ballast, instant start				
GEB10RS	T8 electronic ballast, rapid start				
AL	Aluminum				
CSA	CSA Certified				
NOM	NOM Certified				
See page 113 for others.					

NOTES:

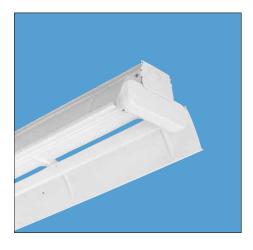
1 Maximum depth to center of lamps.

Availability and Dimensions									
Nominal length	Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth ¹ in. (cm)	Length in. (cm)		
	SS/ SS AL	1	1	17	43/16 (10.6)	215/16 (7.5)	24 (61.0)		
2′	SS/ SS AL	2	2	17	$4^{3}/_{16}$ (10.6)	215/16 (7.5)	28 (71.1)		
	SST	2	2	17, 20	4¾ (11.1)	215/16 (7.5)	28 (71.1)		
	SS/ SS AL	1	1	25	43/16 (10.6)	215/16 (7.5)	36 (91.4)		
3′	SS/ SS AL	2	2	25	$4^{3}/_{16}$ (10.6)	215/16 (7.5)	40 (101.6)		
	SST	2	2	25,30	4¾ (11.1)	215/16 (7.5)	40 (101.6)		
4′	SS/ SS AL	1	1	32	43/16 (10.6)	215/16 (7.5)	48 (121.9)		
	SS/ SS AL	2	2	32	43/16 (10.6)	215/16 (7.5)	52 (132.1)		
	SST	2	2	32	4¾ (11.1)	215/16 (7.5)	52 (132.1)		
	TSS/ TSS AL	1	2	32	43/16 (10.6)	215/16 (7.5)	92 (233.7)		
8′	TSS/ TSS AL	2	4	32	$4^{3}/_{16}$ (10.6)	215/16 (7.5)	100 (254.0)		
	SS/ SS AL	1	1	96T8H0, 96T8	43/16 (10.6)	215/16 (7.5)	96 (243.8)		
	SS/ SS AL	2	2	96T8H0, 96T8	43/16 (10.6)	215/16 (7.5)	100 (254.0)		
	SS/ SS AL	1	1	96H0	43/16 (10.6)	313/16 (9.7)	96 (243.8)		
	SS/ SS AL	2	2	96H0	$4^{3}/_{16}$ (10.6)	313/16 (9.7)	100 (254.0)		



Heavy-Duty Turret Industrials

AF



Intended Use

For mounting heights up to 25' that require high light levels. Ideal for medium to heavy-duty manufacturing areas, warehousing, storage or task lighting.

Features

Solid-top, 10% uplight or 20% uplight reflector is die-embossed, constructed of heavy-gauge cold rolled steel and painted after fabrication. Baked white enamel finish standard, porcelain available. Pressure-lock lampholders enclosed in a snap-in turret housing.

Available in 4' or 8' tandem wired lengths. Full depth end plates available (order separately, one per fixture or row). Accepts plug-in option for 1, 2 or 3 primary circuits.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN and THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Example: AF 2 32 MVOLT GEB10IS

Ordering Information

Series

AF 20% uplight

AF10 10% uplight

AFST Solid reflector

For tandem double-length unit, add prefix
T. Example: TAF

Number of lamps

1
2
3
4
Not included.

Lamp type

32 32W T8 (48")

48 38W Slimline (48")

48H0 60W 800mA (48")

48T8H0 44W T8 (48")

48PG 110W 1500mA (48")

96H0 110W 800mA (96")

96FG 215W 1500mA (96")

96T8 59W T8 Slimline (96")

96T8H0 86W T8 380mA (96")

Voltage MVOLT 347

Options/Accessories¹ One 3-lamp ballast 1/3 1/4 One 4-lamp ballast Electronic ballast (F96T8 + GEB F96T8110) GEB10IS T8 electronic ballast, instant start GEB10RS T8 electronic ballast, rapid start White porcelain reflector finish P0 ACEP Full-depth end plates (1 pair)¹ 30°x30° metal eggcrate louver, **DLAF ME** 48" long¹ DLAF A12 Framed acrylic prismatic lens, #121 CSA CSA Certified (347V only) NOM NOM Certified See page 113 for others

- 1 Order accessories as separate catalog numbers.
- $2 \quad \text{For detailed mounting information, consult the product specification sheets}. \\$
- 3 PG fixture not available with 4 lamps.

Availability and Dimensions								
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)		
AF, AF10, AFST	1, 2, 3, 4	1, 2, 3, 4	32	133/8 (33.4)	65/8 (15.8)	49 ¹³ / ₁₆ (126.5)		
AF, AF10, AFST	2, 3, 4	2, 3, 4	48, 48H0 48PG³, 48H0	13 ³ / ₈ (33.4) 13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8) 6 ⁵ / ₈ (15.8)	48 (121.9) 48 (121.9)		
TAF, TAF10, TAFST	1, 2, 3, 4	2, 4, 6, 8	32 48, 48H0, 48PG ³	13³/ ₈ (33.4) 13³/ ₈ (33.4)	6 ⁵ / ₈ (15.8) 6 ⁵ / ₈ (15.8)	99 ¹⁹ / ₃₂ (253.2) 96 (243.8)		
AF, AF10, AFST	1, 2, 3, 4	1, 2, 3, 4	96T8, 96H0 96T8H0, 96PG ³	13³/ ₈ (33.4) 13³/ ₈ (33.4)	6 ⁵ / ₈ (15.8) 6 ⁵ / ₈ (15.8)	96 (243.8) 96 (243.8)		



For mounting heights up to 25' that require high light levels. Ideal for medium to heavy-duty areas, manufacturing, warehousing, storage or task lighting.

Features

Solid-top or 10% uplight reflector is die-embossed, constructed of heavy-gauge cold rolled steel and painted after fabrication. Baked white enamel finish standard, porcelain available. Pressure-lock lampholders enclosed in a snap-in turret housing.

Available in 4' or 8' tandem wired lengths. Full depth end plates available (order separately, one per fixture or row). Accepts plug-in option for 1, 2 or 3 primary circuits.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN and THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).





Example: AFP 2 32 MVOLT GEB10IS

Ordering Information

Series

AFP 10% uplight

AFPST Solid reflector

Fortandem double-length unit, add prefix
T. Example: TAF

Number of lamps

1
2
3
Not included.

Lamp type

28T5 28W T5 (46")

32 32W T8 (48")

54T5H0 54W T5H0 (46")

Voltage MVOLT 347

	Options/Accessories ¹
1/3	One 3-lamp ballast
1/4	One 4-lamp ballast
GEB10IS	T8 electronic ballast, instant start
GEB10RS	T8 electronic ballast, rapid start
GEB10PS	T5 electronic ballast, program start
ACEP	Full-depth endplates (1 pair) ¹
DLAF ME	30°x30° metal eggcrate louver, 48" long ¹
DLAF A12	Framed acrylic prismatic lens, #12 pattern, 48" long ¹
P0	White porcelain reflector finish
CSA	CSA Certified (347V only)
NOM	NOM Certified

Availability and Dimensions								
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length² in. (cm)		
AFP, AFPST	1, 2, 3	1, 2, 3	28T5, 32, 54T5H0	133/8 (33.4)	6 ⁵ / ₈ (15.8)	4913/16 (126.5)		
TAFP, TAFPST	1, 2, 3	2, 4, 6	28T5, 32, 54T5H0	133/8 (33.4)	6 ⁵ / ₈ (15.8)	9919/32 (253.2)		

NOTES:

1 Order accessories as separate catalog numbers.

See page 113 for others.

 ${\bf 2} \quad \text{For detailed mounting information, consult the product specification sheets}.$



EJS/EJD/EJ



Intended Use

For mounting heights up to 20' requiring low to medium light levels. Ideal for light-duty task lighting, aisles, warehousing, storage and retail.

Features

Solid top reflector or uplight is available. Premium-gauge channel features gripper-back design for strength and rigidity. Extra-wide channel and reflector on 3 and 4 light fixtures. Sturdy combination reflector and channel cover secured by quarter-turn latch for easy access to wire-way.

Screw-on endplates. Available in tandem wiring lengths. Accepts plug-in options for 1, 2 or 3 primary circuits. High-gloss, baked enamel finish reflector painted after fabrication. (Optional finishes available.)

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).

Example: EJ 2 32 MVOLT GEB10IS

Ordering Information

Series Number of lamps EJS 1 or 2 lamps, solid top,T12 and T8, rapid start and slimline, standard width EJSA 1 or 2 lamps, uplight, T12 and T8, rapid start and slimline, standard width EJDA 1 or 2 lamps, solid top,T12 HO and VHO, rapid start and slimline, standard width EJDA 1 or 2 lamps, uplight, T12 HO and VHO, rapid start and slimline, standard width EJA 3 or 4 lamps, solid top, T12 and T8, wide channel EJA 3 or 4 lamps, uplight, T12 and T8, wide channel 2 Lamps, solid top, T12 and T8, wide channel 2 Lamps, uplight T12 and T8, wide channel			_		
EJS 1 or 2 lamps, solid top,T12 and T8, rapid start and slimline, standard width 2 EJSA 1 or 2 lamps, uplight, T12 and T8, rapid start and slimline, standard width 2 EJD 1 or 2 lamps, solid top,T12 HO and VHO, rapid start and slimline, standard width 3 EJDA 1 or 2 lamps, uplight, T12 HO and VHO, rapid start and slimline, standard width 4 EJS 3 or 4 lamps, solid top, T12 and T8, wide channel 2 lamps, solid top, T12 and T8, wide channel 2 lamps, solid top, T12 and T8, wide channel					
EJSA 1 or 2 lamps, uplight, T12 and T8, rapid start and slimline, standard width 2 EJDA 1 or 2 lamps, solid top,T12 H0 and VH0, rapid start and slimline, standard width 4 EJDA 3 or 4 lamps, uplight, T12 H0 and VH0, rapid start and slimline, standard width Not included. EJA 3 or 4 lamps, uplight, T12 and T8, wide channel EJDA 2 lamps, solid top, T12 and T8, wide channel EJDA 2 lamps, solid top, T12 and T8, wide channel		Series		Number (of lamps
	EJSA EJD EJDA EJ EJA	1 or 2 lamps, uplight, T12 and T8, rapid start and slimline, standard width 1 or 2 lamps, solid top,T12 HO and VHO, rapid start and slimline, standard width 1 or 2 lamps, uplight, T12 HO and VHO, rapid start and slimline, standard width 3 or 4 lamps, solid top, T12 and T8, wide channel 3 or 4 lamps, uplight, T12 and T8, wide channel	ı	4	

			Availability and Dimensions			
	Lamps	Lamps				
	per cross	per	Lamp	Width ¹	Depth ¹	Length1
Series	section	fixture	type	in. (cm)	in. (cm)	in. (cm)
EJS, EJSA	1, 2	1, 2	17, 20, 24	12 (30.5)	41/4(10.8)	24 (69.9)
EJD, EJDA	1, 2	1, 2	24H0	12 (30.5)	415/16(12.5)	24 (69.9)
EJ	3,4	3,4	17, 20, 24	12 (30.5)	51/4 (13.3)	24 (69.9)
EJS, EJSA	1, 2	1, 2	25, 36, 36	12 (30.5)	41/4(10.8)	36 (91.4)
EJD, EJDA	1, 2	1, 2	36H0	12 (30.5)	415/16(12.5)	36 (91.4)
EJ	3,4	3,4	25, 36, 36HO	12 (30.5)	51/4 (13.3)	36 (91.4)
EJS, EJSA	1,2	1,2	32,40,48,48T8H0,54T5H0	12 (30.5)	41/4(10.8)	48 (121.9)
EJD, EJDA	1,2	1,2	48HO, 48VHO ¹	12 (30.5)	415/16(12.5)	48 (121.9)
EJ	3,4	3,4	32,48,48H0	16 (40.6)	51/4 (13.3)	48 (121.9)
2EJ	2	2	32,48,48H0	16 (40.6)	51/4 (13.3)	48 (121.9)
EJS, EJSA	1, 2	1, 2	72, 72T8H0	12 (30.5)	41/4(10.8)	72 (182.9)
EJD, EJDA	1, 2	1, 2	72H0	12 (30.5)	415/16(12.5)	72 (182.9)
EJ	3,4	3,4	72, 72H0	16 (40.6)	51/4 (13.3)	72 (182.9)
EJS, EJSA	1, 2	1, 2	96H0T8	12 (30.5)	41/4(10.8)	96 (243.8)
EJD/EJDA	1, 2	1, 2	96H0, 96VH0 ¹	12 (30.5)	415/16(12.5)	96 (243.8)
EJ	3,4	3,4	96HO, 96T8VHO, 96T8VHO	16 (40.6)	51/4 (13.3)	96 (243.8)
2EJ	2	2	96H0, 96T8VH0, 96T8VH0, 96VH0 ¹	12 (30.5)	51/4 (13.3)	96 (243.8)
TEJ	1, 2	2,4	32	16 (40.6)	51/4 (13.3)	96 (243.8)
TEJ	3,4	6,8	32	16 (40.6)	51/4 (13.3)	96 (243.8)
T2EJ	2	4	32	16 (40.6)	51/4 (13.3)	96 (243.8)
TEJS, TEJSA	1, 2	2,4	96T8, 96T8H0	12 (30.5)	41/4(10.8)	192 (487.7)
TEJD/TEJDS	1, 2	2,4	96HO, 96VHO ¹	12 (30.5)	415/16(12.5)	192 (487.7)
EJ	3,4	3,4	96H0, 96T8, 96T8VH0	16 (40.6)	51/4 (13.3)	192 (487.7
T2EJ	2	4	96H0, 96T8, 96T8H0, 96VH01	16 (40.6)	51/4 (13.3)	192 (487.7

	Lump type
17	17W T8 (24")
20	20W T12(24")
24	24W T12 slimline (24")
24H0	35W T12 800mA (24")
25	25W T8 (36")
30	30W T12 (36")
32	32W T8 (48")
36	36W T12 slimline (36")
36H0	45W 800mA (36")
48	38W T12 slimline (48")
48H0	60W T12 800mA (48")
48VH0	110W T12 1500mA (48"
54T5H0	54W T5 H0 (46")
72	55W T12 slimline (72")
72H0	85W T12 800mA (72")
96T8	96W T8 slimline (96")
96T8H0	86W T8 T8H0 (96")
96H0	110W T12 800mA (96")
96VH0	215W T12 1500mA (96"

Lamp type

Options / Accessories 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast ES T12 energy-saving ballast **CW** Cold temperature ballast (T12H0 only) GEB T8 electronic ballast. \leq 20% THD, instant start **GEB10IS** T8 electronic ballast, \leq 10% THD, instant start **GEB10RS** T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified (347V NOM NOM Certified See page 113 for others.

Voltage MVOLT 120 277 347

NOTES:

1 Fixtures not available with 4 lamps.





For mounting heights up to 16' requiring low to medium light levels. Ideal for light-duty areas, utility, storage rooms or retail.

Features

Solid top reflector or 8% uplight is available. Sturdy combination reflector and channel cover secured by captive quarter-turn latch for easy access to wireway. Combination endplate/channel connector supplied with each fixture. High-gloss backed white enamel finish. Reflector is painted after fabrication. Available in tandem wired lengths. Accepts plug-ins for 1, 2 or 3 primary circuits.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is

standard. Sound rating depends on lamp/ballast combination.

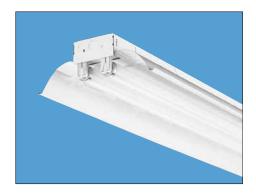
Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V – see Options). NOM Certified (see Options).





Example: L 2 32 MVOLT GEB10IS

Ordering Information



Lamp type

17 17W T8 (24")

20 20W T12 (24")¹

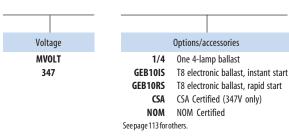
32 32W T8 (48")

48 38W slimline (48")

48T8HO 44W T8 (48")

96T8 59W T8 slimline (96")

96T8HO 86W T8 380mA (96")



- 1 Specify ballast option HPF or LPF for 20W.
- 2 For detailed mounting information consult the product specification sheets.

Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width² in.(cm)	Depth ² in.(cm)	Length ² in.(cm)
L, LA	1 2	1 2	17, 20¹ 17, 20¹	12 (30.5) 12 (30.5)	4 (10.2) 4 (10.2)	24 (61.0) 24 (61.0)
L, LA	1 2	1 2	32, 48 32, 48, 48T8H0	12 (30.5) 12 (30.5)	4 (10.2) 4 (10.2)	48 (121.9) 48 (121.9)
TL, TLA	1 2	2 4	32, 48, 48T8H0 32, 48	12 (30.5) 12 (30.5)	4 (10.2) 4 (10.2)	96 (243.8) 96 (243.8)
L, LA	1 2	1 2	96T8, 96T8H0 96T8, 96T8H0	12 (30.5) 12 (30.5)	4 (10.2) 4 (10.2)	96 (243.8) 96 (243.8)



Heavy-Duty Parabolic Industrials



Intended Use

For mounting heights up to 25' requiring low to high light levels and excellent glare control. Ideal for manufacturing assembly lines, inspection areas and warehousing.

Features

Heavy-duty formed channel with parabolic, deep die-embossed reflector with high-gloss baked enamel finish. Porcelain finish optional.

Center "V" provides 30° crosswise shielding to minimize glare. 20% uplight standard.

Full-depth endplates required. Order separately, one pair per fixture or row.

Reflector aligners and channel connector furnished for continuous-row mounting.

Spring-loaded sockets securely hold lamps in rough-duty applications.

Ballast - Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

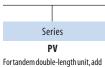
Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

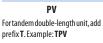
Mounting - For unit or row installations, surface or suspended mounting. Order endplates separately, one per fixture or row.

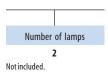
Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). Suitable for damp locations.

Ordering Information







	Lamp type
28T5	28W T5 (46")
32	32W T8 (48")
48	38W Slimline (48")
48H0	60W 800mA (48")
48T8H0	44W T8 (48")
48PG	110W 1500mA (48")
54T5H0	54W T5 H0 (46")
96H0	110W 800mA (96")
96PG	215W 1500mA (96")
96T8	59W T8 Slimline (96")
96T8H0	86W T8 380mA (96")

Voltage **MVOLT** 347

Options/Accessories¹ GEB Electronic ballast (F96T8 or F96T8H0 only) GEB10IS T8 electronic ballast, instant start **GEB10RS** T8 electronic ballast, rapid start **GEB10PS** T5 electronic ballast, program start PO White porcelain reflector finish Full-depth end plates (1 pair) required. Use one pair per fixture for single unit installations or one pair per row. CSA CSA Certified NOM NOM Certified See page 113 for others.

Example: PV 2 32 MVOLT GEB10IS

- 1 Order accessories as separate catalog numbers.
- $2 \quad \text{For detailed mounting information consult the product specification sheets}. \\$

			Availability and Dimensions			
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
PV TPV	2	2 4	28T5, 32, 54T5H0 28T5, 32, 54T5H0	13 ³ / ₈ (33.4) 13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8) 6 ⁵ / ₈ (15.8)	49 ¹³ / ₁₆ (126.5) 99 ¹⁹ / ₃₂ (253.2)
PV	2	2	48, 48HO, 48T8HO, 48PG	133/8 (33.4)	65/8 (15.8)	48 (121.9)
TPV	2	4	28T5, 48, 48H0, 48T8H0, 48PG, 54T5H0	133/8 (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)
PV	2	2	96, 96HO, 96PG, 96T8, 96T8HO	133/8 (33.4)	65/8 (15.8)	96 (243.8)



For low to medium mounting heights and harsh environments where dust, dirt, humidity or moisture is present. Ideal for canopies, shipping docks, refrigerated areas, food processing and other non-hazardous environments.

Features

Impact-resistant, UV-stabilized, reinforced polyester fiberglass housing. Shatter-resistant 15% DR acrylic diffuser standard, high impact 50% DR available. Poured-in gasketing provides a continuous seal between housing and diffuser. Captive, corrosion-resistant, cam-action latches secure the diffuser. Stainless steel (STSL) latches also are available.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring and Electrical – AWM, TFN or THHN wire used throughout, rated for required tempera-

Mounting – For unit or row installations, surface (ceiling or wall) or suspended mounting.

Listings

120V, 277V and MVOLT are UL Listed and CSA Certified (standard). See Options for 347V and NOM Certified. DM is damp location, DMW is wet location listed for covered ceiling applications.

DMW DMW



Example: DM 2 32 MVOLT GEB10IS

Ordering Information

Series

DM Damp location

DMW Wet location

Fortandem double-length unit, add prefix T. Example: TDM

Number of lamps

1
2
3
1
Notincluded.

32 32W T8 (48")
48 38W slimline (48")²
48H0 60W 800mA (48")²
96H0 110W 800mA (96")²
96T8 59W T8 slimline (96")
96T8H0 86W T8 380mA (96")

(blank) Acrylic, 15% DR

AR High-impact acrylic, 50% DR

DP Deep acrylic, 15% DR³

ARDP Deep high-impact acrylic, 50% DR³

Voltage
MVOLT
120
277
347

Options/Accessories3,4 One 3-lamp ballast 1/3 One 4-lamp ballast 1/4 GEB10IS T8 electronic ballast, instant start **GEB10RS** T8 electronic ballast, rapid start BCD Mounting bracket to chainhang DM/DMW (2 per package, excludes chain)4 Wire hook and 36" chain set (2 per package)4 Field-installable wet location fittings to stem-hang DMW on 1/2" rigid conduit (2 per package). For factory-installed fittings on top, order WLF as an option. CSA Certified (347V only)

NOM Certified

See page 113 for others.

		Avail	lability and Dimensions			
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
DM, DMW	1, 2, 3 ¹	1, 2, 3	32	75/8 (18.4)	4¾ (9.5)	50 (127.0)
DM, DMW	1, 2	1,2	48, 48H0, 48T8H0	75/8 (18.4)	55/8 (13.3)	50 (127.0)
DM, DMW (DP or ARDP)	1, 2, 3 ¹	1, 2, 3	32	75/8 (18.4)	55/8 (13.3)	50 (127.0)
TDM, TDMW	1, 2	2, 4	32, 48, 48H0, 48T8H0	75/8 (18.4)	55/8 (13.3)	98 (248.9)
DM, DMW	1, 2	1, 2	96HO, 96T8, 96T8HO	75/8 (18.4)	55/8 (13.3)	98 (248.9)

- 1 3-lamp models only available with T8 lamp source
- 2 Specify voltage
- 3 Deep lens is standard on 4's limline, HO (800mA) and 8' fixtures. To match deep appearance on 4' rapid start, order DP or ARDP option.
- 4 Order accessories as separate catalog number.





DMS DMSW



Intended Use

For low to medium mounting heights and harsh environments where dust, dirt, humidity or moisture is present. Ideal for canopies, shipping docks, refrigerated areas, food processing and other non-hazardous environments.

Features

Fully gasketed, totally enclosed fixture is available in heavy-duty steel or aluminum housing (AL option) with a baked white enamel finish. A shatter-resistant 15% DR acrylic diffuser (50% DR available) is secured by captive, corrosion-resistant pivot latches.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring and Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting. Wet location DMSW available for covered ceiling mount only.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). Suitable for damp locations. DMSW is listed for wet locations covered ceiling applications.

Ordering Information

Series

DMS Damp location

DMSW Wet location

For tandem double-length
unit, add prefix T. Example:
TDMS

Number of lamps

1
2
3¹
Not included.

32 32W T8 (48")
48 38W slimline (48")
48H0 60W 800mA (48")
48T8H0 44W T8 (48")
96H0 110W 800mA (96")
96T8 59W T8 slimline (96")
96T8H0 86W T8 380mA (96")

Lamp type

Diffuser type
(blank) Acrylic, 15% DR

AR High-impact acrylic, 50% DR
DP Deep acrylic, 15% DR ²
ARDP High-impact deep acrylic, 50 DR²

Voltage

MVOLT

347

Options/accessories

Example: DMS 2 32 MVOLT GEB10IS

GEB10IS T8 electronic ballast, instant start

GEB10RS T8 electronic ballast, rapid start

AL Aluminum housing

WLF Field-installable wet location fittings to stem-hang DMS on ½" rigid conduit (2 per package). For factory-installed fittings on top, order WLF as an option.

CSA CSA Certified
NOM NOM Certified
Seepage 113 for others.

- $1\quad 3-lamp\ models\ only\ available\ with\ T8\ lamp\ source.$
- 2 Deep lens is standard on 4' slimline, HO (800mA) and 8' fixtures. To match deep appearance on 4' rapid start, order DP or ARDP option.

		Avai	lability and Dimensions			
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
DMS, DMSW	1, 2, 31	1, 2, 3	32, 48, 48H0, 48T8H0	85/8 (20.9)	5¼ (13.3) 6¹/ ₈ (15.3)	50 ⁵ / ₁₆ (129.4) 50 ⁵ / ₁₆ (129.4)
DMS, DMSW (DP or ARDP)	1, 2, 3 ¹	1, 2, 3	32, 48, 48HO, 48T8HO	85/8 (20.9)	6 ¹ / ₈ (15.3)	505/16 (129.4)
TDMS, TDMSW	1, 2, 3 ¹	2, 4, 6	32, 48, 48HO, 48T8HO	85/8 (20.9)	61/8 (15.3)	985/16 (251.3)
DMS, DMSW	1, 2	1, 2	96H0, 96T8, 96T8H0	85/8 (20.9)	6 ¹ / ₈ (15.3)	98 ⁵ / ₁₆ (251.3)



Intended for demanding areas such as dust or hosedown (EIS) and food processing (EFS) applications. Applications include EIS – docks, marine environments, heavy industrials and other non-hazardous environments; EFS – food/beverage processing, cosmetics and pharmaceuticals.

Features

Fully gasketed, totally enclosed fixture formed of heavy-duty aluminum construction. Fully seam-welded construction. A wide variety of finishes available.

Clear prismatic, injection-molded high strength acrylic diffuser (polycarbonate optional). Diffuser retained to housing with stainless steel fasteners.

Available in standard (2- or 3-lamp) or narrow (1 lamp) channel with your choice of T5 or T8 lamps.

For unit or row installation, surface (ceiling or wall) or suspended.

Listing

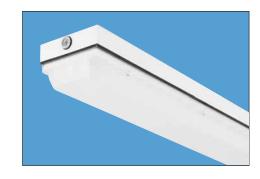
UL Listed to US and Canadian safety standards. See Options for 347V.

EIS – IP65 rated for protection against the ingress of water and contaminants.

EFS – IP65 rated for the protection against the ingress of water and contaminants. Complies with FDA/USDA guidelines and is Food Zone Non-Contact certified.

EIS EFS

Tough Task™



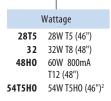


Example: EIS 2 32 MVOLT GEB10IS

Ordering Information

	Series
EIS	Enclosed industrial (wide)
EISC	Enclosed industrial (narrow)
EFS	Enclosed food service (wide)
EFSC	Enclosed food service (narrow)

Lamps ¹
1
2
3
Not included.



	Diffuser type
(blank)	Prismatic acrylic
PCL	Prismatic
	polycarbonate ³

Voltage
MVOLT
347

	Options
1/3	One 3-lamp ballast (T8 only)
EB10IS	T8 electronic ballast, instant start

GEB10PS T5 electronic ballast, program start
GEB10RS T8 electronic ballast, rapid start
CW20 T12 cold-weather ballast, -20°F starting
ELDW Emergency lighting wet location (nominal 300 lumens)⁴

EL14DW Emergency lighting wet location (nominal 1400 lumens)⁴

GLR Internal fast blow fuse

RIF1 Radio interference filter, one per fixture⁵

STSW Stainles steel housing, white

STS Stainless steel housing, natural

CSA Listed and labeled to comply with Canadian standards (347V only)

Availability and Dimensions							
Series			Width in. (cm)	Depth in. (cm)	Length in. (cm)		
	TIXLUTE	type	III. (CIII)	III. (CIII)	III. (CIII)		
EIS	3	28T5, 32, 48H0	9¾ (24.8)	6 (15.2)	4 (10.2)		
	2	54T5H0	9¾ (24.8)	6 (15.2)	4 (10.2)		
EFS	3	28T5, 32, 48H0	9¾ (24.8)	6 (15.2)	4 (10.2)		
	2	54T5H0	9¾ (24.8)	6 (15.2)	4 (10.2)		
EISC	1	28T5, 32, 54T5H0	57/8 (14.9)	6¾ (17.1)	4 (10.2)		
EFSC	1	28T5, 32, 54T5H0	57/8 (14.9)	6¾ (17.1)	4 (10.2)		

Accessories	(Order separately)

WLF Wet location fittings (1 pair, not installed)

- 1 Reference availability chart below.
- 2 Must be specified with ACNS90 ballast.
- Not available with EFS or EFSC.
- 4 Luminaires ordered with **DW** option; (Example: **EL5DW**), will bear the UL emergency lighting equipment label for damp or wet locations. Available only with T8 lamp types.
- 5 For one filter per ballast, specify RIF2.



High Pressure Hosedown Fixtures

EFT

Tough Task™



Intended Use

For low to medium mounting heights in demanding applications including hosedown and food processing areas requiring ease of cleanability, compliance to FDA/USDA requirements and NSF splash-zone certification. Applications include meat/poultry/beverage processing, cosmetics and pharmaceuticals.

Features

Totally enclosed fixture with tubular acrylic, high-impact lens surrounding an aluminum channel. Channel is finished with a high-gloss, baked white polymeric powder.

Stainless steel end caps with silicone o-ring closed cell gaskets close off fixture ends.

High-impact, clear DR acrylic lens; .125" nominal thickness.

Two 7" stainless steel aircraft cables and s-hooks included.

Fixture supplied with 5' power cord.

4' and 8' lengths available.

Listings

UL LIsted to US and Canadian safety standards, maximum 40° C ambient temperature. See Options for 347V. IP65 rated for protection against ingress of water and contaminants. NSF International certified splash-zone and meets FDA/USDA guidelines (standard).

Ordering Information



Wattage			
32	32W T8 (48")		
48H0	60W 800mA (48")		
48T8H0	44W T8 (48")		
96H0	110W 800mA (96")		
96T8H0	86W T8 380mA (96")		

	_
Voltage	
MVOLT	<u>Sh</u>
120	
277	
347	
*120-277V.Must specify GEB10IS.	

Options						
Shipped install	led in fixture					
CW20	Cold weather ballast -20°F1					
GEB10IS	T8 electronic ballast, instant-start					
GEB10RS	T8 electronic ballast, rapid-start					
ELDW	DW Emergency lighting wet location, 300 lumens					
EL14DW	W Emergency lighting wet location, 1400 lumens					
GLR Internal fast blow fuse						
CS88	Brad Harrison 16/3 cord and plug set 5'					
CSA	Listed and labeled to comply with Canadian safety standards (347V only)					

Example: EFT 2 32 MVOLT GEB10IS

NOTES: 1 T12H0 only.

	Availability and Dimensions						
Number Lamp Width Depth Leng							
Series	of lamps	of lamps type		in. (cm)	in. (cm)		
EFT	2	32, 48H0, 48T8H0	6½ (16.5)	71/4 (18.4)	50 (127.0)		
EFT	2	96H0, 96T8H0	6½ (16.5)	7¼ (18.4)	98 (248.9)		



General illumination for indoor and outdoor, covered-ceiling locations. Ideal for showers locker rooms, recreational facilities, kitchens and other applications calling for a wet location listing.

Features

Code gauge steel housing. All metal parts are finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Available for grid or flange ceiling types.

Closed-cell neoprene gasketing between the lens, door frame, housing and mounting surface.

Extruded aluminum door frame features mitered corners.

Listings

UL Listed (standard) and CSA Certified (standard; except for 347V - see Options). NOM Certified (see Options). UL Listed for wet locations for covered-ceiling applications.





Ordering Information

Lamps Series Trim type 2WRT 2' wide Lay-in grid WRT 1' wide trim Overlapping 3 flange trim 4 6 Notincluded 40W CF lamp (35")1

		Lamp type	
	17	17W T8 (24")	(
	20	20W T8 T12 (24")1	
	U31	31W T8 U-lamp	
		(24")	
	U316	31W T8 U-lamp	
l.		(24", 6" leg	
		spacing)	
	32	32W T8 (48")	

Door frame (blank) Flush aluminum, white Flush aluminum. natural Flush aluminum, black

Diffi	user type ²
A12125	#12 pattern acrylic, .125" thick
A15	#15 pattern acrylic, .2" thick
A19	#19 pattern acrylic, .156" thick

	Options
1/3 1/4	One 3-lamp ballast One 4-lamp ballast
GEB10IS	T8 electronic ballast, instant start
GEB10RS	T8 electronic ballast, rapid start
CSA	CSA Certified (347V only)
NOM	NOM Certified

Availability and Dimensions						
Nominal size	Series	Number of lamps	Lamp type	Height in. (cm)		
1'x4'	WRT	1, 2, 3	32	41/2 (11.4)		
	2WRT	2	17, 20, U31	311/16 (9.3)		
2'x2'		2	U316, CF40	311/16 (9.3)		
- //-		3	17, 20, U31, CF40	311/16 (9.3)		
		4	17, 20, CF40	311/16 (9.3)		
2'x4'	2WRT	2, 3, 4, 6	32	311/16 (9.3)		

NOTES:

- 1 Specify 120 or 277 volt
- 2 Add suffix V for internal prisms. Example: A12125 V.

Voltage

MVOLT

347



Troffers





Intended Use

Suitable for use in contamination-controlled environments ISO7 (Class 10,000) and ISO8 (Class 100,000) applications.

Features

Code-gauge steel housing is completely sealed with silicone caulk. Aluminum mitered-corner door frame features sealed cam latches and neoprene gasketing between door and housing.

Metal parts are finished after fabrication with electrostatically deposited, thermally set polyester paint.

Meets requirements for hosedowns up to 100 psi (see Options).

Suitable for use in 1", 1-1/2" and 2" wide T-bars, or with overlapping flange and swing-out hangers for use in dry or plaster ceilings.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations and covered-ceiling installations.

Ordering Information

Trim type

G Grid, 1"-1½" wide tee

G20 Grid, 2" wide tee¹

F Overlapping flange

Number of lamps 2 3 4 6

Not included.

15/8" leg spacing) U316 31W T8-U (24", 6" leg spacing) 32 32W T8 (48") CF40 40W TT5 (24")

17

U31

Lamp type

17W T8 (24")

20W T12 (24")

31W T8-U (24",

Frame type FW Aluminum

inset, white FN Aluminum

inset, natural

Diffuser type² A12125V #12 pattern

acrylic, .125" thick, inverted PCL12125V #12 pattern

polycarbonate, .125" thick, inverted

K12UVAV KSH12 UVA lite, ultraviolet filtering lens, inverted

> SYA PSI symmetric/ asymmetric acrylic SYAR PSI symmetric/ asymmetric acrylic

with radio filter

grid³

Voltage Options/Accessories MVOLT

Example: 2SRT G 3 32 FW A12125V MVOLT 1/3 GEB10IS

120

277

347

1/3 One 3-lamp ballast 1/4 One 4-lamp ballast **GEB10IS** T8 electronic ballast, instant

start

GEB10RS T8 electronic ballast, rapid start ABC Triple neoprene gasketing

(frame, lens and housing). Suitable for food processing areas; meets USDA and FDA requirements.4,5

Additional lens gasketing, neoprene.

Suitable for low-pressure LPD hosedown, up to 100 psi.5

CSA Certified NOM NOM Certified

See page 109 for others.

- Not available for 1x2 and 1x4.
- Only pattern #12 shielding will ship inverted standard and is indicated by a V. Example: A12125V.
- 3 Not available with lens gasketing.
- $Must specify \textbf{LPD} \ and \ additional \ gasketing \ (i.e. \ \textbf{LGNG})$
- Requires minimum .125" thick lens and gasketing.
- 6 Flanged fixture height is 5¾" (14.61).
- Flanged fixture height is 5" (12.70).

Availability and Dimensions (SRT, SRH, SSH)						
Nominal		Number	Lamp	SRT depth	SRH depth	SSH depth
size	Series	of lamps	type	in. (cm)	in. (cm)	in. (cm)
		1, 2, 3	17, 20	47/8 (12.38)6	45/8 (11.75) ⁷	4½ (11.4)
1'x2'	SRT, SRH, SSH	1, 2	U31, CF40,	47/8 (12.38)6	45/8 (11.75)7	4½ (11.4)
		1	U316	47/8 (12.38)6	45/8 (11.75)7	4½ (11.4)
1'x4'	SRT, SRH, SSH	1, 2, 3	32	47/8 (12.38)6	45/8 (11.75) ⁷	4½ (11.4)
		1, 2, 3, 4	17, 20	47/8(12.38)6	45/8(11.75)7	4½ (11.4)
2'x2'	2SRT, 2SRH	1, 2, 3	U31, CF40,	47/8(12.38)6	45/8(11.75)7	4½ (11.4)
		1,2	U316	47/8(12.38)6	45/8(11.75)7	4½ (11.4)
2'x4'	2SSH	2,3,4,6	32	47/8 (12.38)6	45/8 (11.75)7	4½ (11.4)
	T2SRT, T2SRH, TSSH	2, 3	CF40	47/8 (12.38)6	4 ⁵ /8 (11.75) ⁷	4½ (11.4)



Suitable for use in contamination-controlled environments ISO5 (Class 100) and ISO6 (Class 1,000) applications, such as electronic assembly, pharmaceutical processing, semiconductor manufacturing, chemical labs, food processing areas and the medical industry.

Features

Completely sealed, one-piece housing is fabricated from 20-gauge cold-rolled steel. Seams sealed with silicone caulk.

Full door frame is one-piece, 18-gauge CRS featuring triple closed-cell, cross-linked neoprene gasketing between the door, lens and housing. Optional four-piece inset door also available for grid mounted fixtures.

Full 2'x4' door frame secured to housing by 10 stainless steel captive screws, inset door features four screws.

Optional stainless steel and aluminum housings and door frames available.

Metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Meets requirements for hosedowns up to 200 psi (see Options).

Suitable for use in 1", 1-1/2" and 2" wide T-grids, or with overlapping flange and swing-out hangers for use in dry or plaster ceilings.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations, covered-ceiling installations.

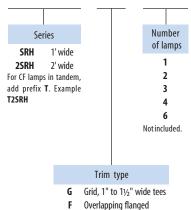






Example: 2SRH G 4 32 FSF A12156V MVOLT GEB10IS

Ordering Information



G20 Grid, 2" wide tee¹

Lamp type

17 17W T8 (24")

20 20W T12 (24")

U31 31W T8-U (24", 15/8" leg spacing)

U316 31W T8-U (24", 6" leg spacing)

32 32W T8 (48")

48H0 60W 800mA (48")²

CF40 40W TT5 (24")

CF55 55W TT5 (24")

		Гиа на				V - I
Frame		Fram	e type			Voltage
FSF Steel full, white FSFF Stainless full, natural FSSFW Stainless full, white FWF Aluminum full, white FW Aluminum inset, white ³ FSS Stainless inset, natural ³ FSSW Stainless inset, white ³		l ³		MVOLT 347		
			Diffu	ser type ⁴		
A12125V A12156V		156V	#12 pattern acry	ylic, .156" th	ick, invert	ted
PCL12125V		12125V	#12 pattern polycarbonate, .125" thick, inverted			

A12156V #12 pattern acrylic, .156" thick, inverted

PCL12125V #12 pattern polycarbonate, .125" thick, inverted

KSH12 UVAlite, ultraviolet filtering lens, inverted

SYA PSI symmetric/asymmetric acrylic

PSI symmetric asymmetric acrylic with radio

filter arid

Options/accessories 1/3 One 3-lamp ballast 1/4 One 4-lamp ballast **GEB10IS** T8 electronic ballast, instant start GEB10RS T8 electronic ballast, rapid start Painted aluminum housing, white AL FPA Suitable for food processing areas; meets USDA, FDA requirements^{5,6} HPD Suitable for high pressure hosedown up to 200 psi⁶ Stainless steel housing, white STSW CSA CSA Certified NOM NOM Certified See page 109 for others

- 1 Not available for 1x2 and 1x4.
- 2 Maximum 2-lamp availability.
- 3 For use with grid-mounted fixtures only.
- 4 Only pattern #12 shielding will ship inverted standard and is indicated by a V. Example: **A12125V.**
- 5 Must specify **HPD.**
- 6 Must specify lens thickness of at least .156".



SSH





Intended Use

Suitable for use in contamination-controlled environments ISO5 (Class 100) and ISO6 (Class 1,000) applications, such as electronic assembly, pharmaceutical processing, semiconductor manufacturing, chemical labs, food processing areas and the medical industry.

Features

Surface models feature seam-welded housing. Completely-sealed, one-piece housing is fabricated from 20-gauge cold-rolled steel.

Full door frame is one-piece, 18-gauge CRS featuring triple closed-cell, cross-linked neoprene gasketing between the door, lens and housing. Optional four-piece inset door also available.

Full 2'x4' door frame secured to housing by 10 stainless steel captive screws, while inset door features four screws.

Optional stainless steel and aluminum housings and door frames available.

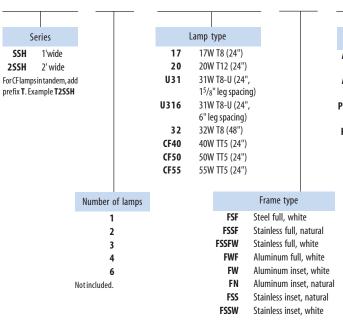
Metal parts finished with electrostatically deposited, thermally set polyester powder paint after fabrication.

Meets requirements for hosedowns up to 200 psi (see Options).

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations and covered-ceiling installations. Optional FDA, food processing areas available.

Ordering Information



Example: 2SSH 3 32 FW A12125V MVOLT 1/3 GEB10IS

Voltage

MVOLT

347

Others available

	Diffuser type ¹
A12125V	#12 pattern acrylic, .125" thick, inverted
A12156V	#12 pattern acrylic, .156" thick, inverted
PCL12125V	#12 pattern polycarbonate, .125" thick, inverted
K12UVAV	KSH12 UVAlite, ultraviolet filtering lens, inverted
SYA	PSI symmetric/ asymmetric acrylic
SYAR	PSI symmetric/ asymmetric acrylic with radio filter grid
	radio inter grid

	Options/accessories	
1/3	One 3-lamp ballast	
1/4	One 4-lamp ballast	
GEB10IS	T8 electronic ballast, instant start	
GEB10RS	T8 electronic ballast, rapid start	
AL	Painted aluminum housing, white	
FPA	Suitable for food processing areas. Meets USDA, FDA requirements ^{2,3}	
HPD	Suitable for high pressure hose- down up to 200 psi ³	
STS	Stainless steel housing, natural	
STSW	Stainless steel housing, white	
CSA	CSA Certified	
NOM	NOM Certified	

See page 112 for others.

- 1 Only pattern #12 shielding will ship inverted standard and is indicated by a V. Example: A12125V.
- 2 Must specify **HPD**.
- 3 Must specify lens thickness of at least .156".



Suitable for use in ISO4 (Class 10) and ISO5 (Class 100) cleanroom applications.

Features

Die-formed 20-gauge cold rolled steel or extruded aluminum channel. Stainless steel or formed aluminum housings available. Finish (standard) – White polyester powder paint, other finishes available (see Options).

Diffuser is one piece, extruded, white acrylic with internal linear prisms for optimum light control. Smooth external surface for undisturbed airflow. Clear available.

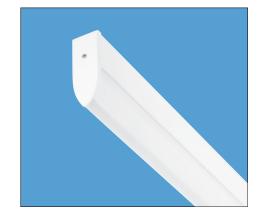
For surface mounting to 2" T-bar. Suitable for individual or row mounting.

STP – End caps not included, order as an accessory.

Listings

UL Listed to US and Canadian safety standards. See Options for 347V. Tested in compliance with the International Organization for Standardization (ISO) Worldwide Contamination Classification.





Ordering Information

Series
STP
Fortandemdouble-length unit, add prefix T. Example: TSTP

Number of lamps

1
Notincluded.

Lamp type
32 32W T8 (48")

Diffuser
(blank) White acrylic

ACR Clear acrylic

Voltage

MVOLT

347
Others available.

Example: STP 1 32 MVOLT GEB10IS

	Options	
GEB10IS	Electronic ballast for T8 < 10% THD, Instant start	
GLR	Internal fast blow fuse	
GMF	GMF Internal slow-blow fuse	
RIF Radio interference filter (one per fixture)		
STSW	Stainless steel housing, white	
AL	Aluminum housing, white	
CSA	Listed and labeled to comply with Canadian standards (347V only)	

Accessories (Order separately)

STPEP Pair of cold rolled steel end caps, white
STPEPAL Pair of aluminum end caps, white
STPEPSTSW Pair of stainless steel end caps, white

Availability and Dimensions					
Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
STP	1	32, 40	2 (5.1)	6 (15.2)	48 (121.9)
TSTP	2	32, 40	2 (5.1)	6 (15.2)	96 (243.8)



VSL VSLC



Intended Use

For areas that require higher levels of protection from physical assault or environmental elements, while providing proper illumination for safety and security.

Features

Housing – Heavy-duty 16-gauge cold-rolled steel, one-piece housing for durability and security.

Ballast Cover – Ballast and lampholders are installed to wireway cover to provide easy installation and service. Wireway cover safety chains included.

Socket – Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

Finish – Five-stage, iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

Lens – Clear prismatic, injection-molded and UV-stabilized polycarbonate lens (.130" thick) that completely encloses face and all sides of housing. No exposed metal surfaces. Optional lens (SCE) features easily removable molded-in lens membrane centered over end plate knockouts for surface conduit and wiring access. Includes gaskets (one pair, not installed). Lens is secured to housing with tamper-resistant Torx® T-20 screws with center reject pin (included).

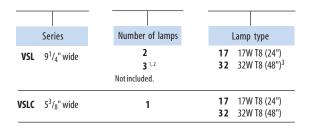
Gasket – One-piece, closed cell neoprene pad mounting gasket is factory installed to help seal against moisture, dust and insects.

Ballast – GEB10IS ballast for T8 lamps is electronic with $0^{\circ}F$ starting temperature.

Listings

UL Listed to US and Canadian safety standards. CSA Certified (see Options). UL Listed for 25°C ambient and wet locations in covered-ceiling applications.

Ordering Information



Lens type Voltage
(blank) Solid-end lens 347
SCE Surface conduit entry lens³

Example: VSL 2 32 MVOLT GEB10IS

Options

DL Damp location
ELDW Emergency battery pack (300 lumens)^{2,4}
GEB10IS Instant start electronic ballast

GEB10RS Rapid start electronic ballast Internal fast-blow fusing⁵

RIF1 Radio interference filter, one per fixture

CSA CSA Certified

- 1 3-lamp model available in 32W T8 only.
- 2 Available in 4-foot fixtures only
- 3 Provided with one pair of surface conduit gaskets.
- 4 Luminaires ordered with **ELDW** option (Example: **EL5DW**) will bear UL Emergency Lighting Equipment label for damp or wet location, depending on fixture.
- 5 Specify voltage.

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.
SCG	Surface conduit gasket (one pair, not installed)

Availability and Dimensions					
	Lamps per	Lamp	Width	Depth	Length
Series	fixture	type	in. (cm)	in. (cm)	in. (cm)
	2	17	91/4" (23.5)	3%" (8.6)	25%" (64.5)
VSL	2	32	91/4" (23.5)	3%" (8.6)	49%" (125.4)
	3	32	91/4" (23.5)	3%" (8.6)	49%" (125.4)
VSLC	1	17	5%" (13.7)	4½" (11.4)	25¾" (65.4)
1320	1	32	5%" (13.7)	4½" (11.4)	49¾" (126.4)



General illumination for rough service (vandalresistant) applications. Designed for use in corridors, entryways, meeting rooms, classrooms, locker rooms and more.

Features

Housing – One-piece, 16-gauge cold-rolled steel housing is die-formed and welded together with reinforcing members for strength. Aluminum and white stainless steel housings available (see Options).

Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens – UV-stabilized polycarbonate lens is extruded A12 prismatic pattern with internal linear side prisms, .130" thick polycarbonate (standard). Secured to housing with stainless steel Torx® T-20 tamper-resistant screws (included).

Ballast Cover - Ballast and lampholders are

secured to channel cover or to channel to provide easy installation and service.

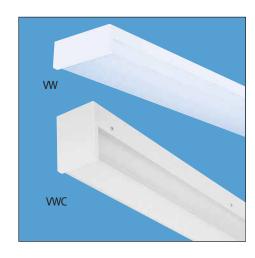
Socket – Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

Ballast – GEB10 IS ballast for T8 lamps is electronic with 0°F starting temperature.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for 25°C ambient and damp locations.

VWC

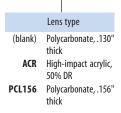


Example: VW 2 32 MVOLT GEB10IS

Ordering Information

		Series	Number
	VW	2 or 3 lamps in 8%" housing or 4 lamps in 131/4" housing	
2	2VW	2 lamps in 131/4" housing	
,	vwc	4½" housing	

	_			
nber of lamps			Lamp type	
1	1	17	17W T8 (24')
2	3	32	32W T8 (48')
3				
4				



Voltage
347 MVOLT

	Options		
AL	L Aluminum housing		
ELDW	DW Emergency lighting (300 lumens) ¹		
GEB10IS	GEB10IS Electronic ballast, instant start		
GEB10RS Electronic ballast, rapid start			
GLR Internal fast-blow fusing ²			
RIF1 Radio interference filter, one per fixture			
STSW	Stainless steel housing, white		
CSA	CSA Certified		

- 1 Luminaires ordered with ELDW option (Example ELSDW) will bear the ULE mergency Lighting Equipment label for damp or wet locations, depending on the fixture.
- 2 Specify voltage

Availability and Dimensions							
Series	Lamps per	Lamp	Width	Depth	Length		
	fixture	type	in. (cm)	in. (cm)	in. (cm)		
VW	2	32	8% (21.3)	3¼ (8.3)	49 (124.5)		
	3	32	8% (21.3)	5 (12.7)	49 (124.5)		
	4	32	13¼ (33.7)	3% (8.6)	49 (124.5)		
2VW	2	32	131/4 (33.7)	3% (8.6)	49 (124.5)		
VWC	1,2	17	4½ (10.8)	5¼ (13.3)	25% (64.5)		
	1,2	32	4½ (10.8)	5¼ (13.3)	49% (125.4)		

VWC, 1 lamp

VWC, 2 lamps

VW, 4 lamps

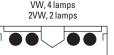
2VW, 2 lamps



Accessories

RK1 T20BIT

RK1 T20DRV



(Order separately)

Torx TX20 hex-base driver bit for tamper-resis-

Torx TX20 screwdriver for tamper-resistant screws

VW, 2 lamps

tant screws with center reject pin.

with center reject pin.





Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for areas where safety and security are a concern.

Features

Housing - Clean design includes overlap mitered housing and door frame corners. Formed from cold-rolled steel. Housing corners spotwelded for strength.

Door - Flush steel door frame secured by four stainless steel tamper-resistant Torx® T-20 with center pin screws, two per side. Three tamperresistant screws per side available. (Specify TP6 option).

Finish - Painted parts finished with high gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance.

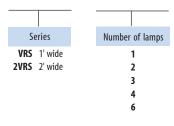
Lens - Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

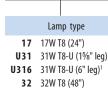
Ballast - Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard.

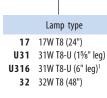
Listings

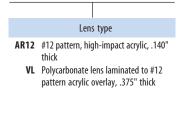
UL Listed (standard). CSA Certified (see Options). UL Listed for 25°C ambient and damp locations.

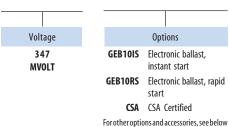
Ordering Information











Example: VRS 2 32 AR12 MVOLT GEB10IS

and page 112.

1 Not available on 3-lamp fixtures. Use U31.

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

Availability and Dimensions									
Nominal size	Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)			
1'x4'	VRS	1, 2, 3	32	12 (30.5)	3¾ (9.5)	48 (121.9)			
2'x2'	2VRS	2, 3	17, U31, U316	24 (61.0)	3¾ (9.5)	24 (61.0)			
	ZVKS	1, 2	17, U31, U316	24 (61.0)	3¾ (9.5)	24 (61.0)			
2'x4'	2VRS	2, 3, 4, 6	32	24 (61.0)	3¾ (9.5)	48 (121.9)			



General illumination for rough service (vandalresistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

Features

Housing – Steel door frame features overlap mitered corners. Formed from cold-rolled steel and secured by stainless steel tamper-resistant Torx® T-20 screws, two per side standard (four included). Ceiling trims available to fit most recessed applications.

Finish – Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion

and rust resistance.

Lens – Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard.

Listings

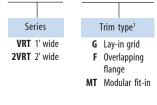
UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for 25°C ambient and damp locations. Wet location (WL) option available.

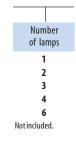




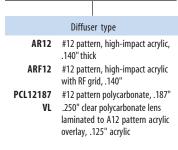
Example: 2VRT G 4 32 AR12 MVOLT 1/4 GEB10IS

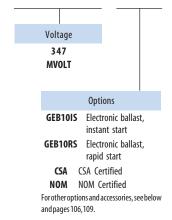
Ordering Information











NOTES:

- 1 Consult factory for screw slot and ST trim.
- 2 Not available on 3-lamp fixtures.

	Availability and Dimensions						
Nominal size	Series	Number of lamps	Lamp type	Depth in. (cm)			
1'x4'	VRT	1, 2, 3	32	41/2 (11.4)			
2′x2′	2VRT	2 3 3 4 4	17,20,U31,U316,CF40 17,20 U31 17,20 CF40	3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3) 3 ¹¹ / ₁₆ (9.3)			
2'x4'	2VRT	2, 3, 4, 6	32	311/16 (9.3)			

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant

screws with center reject pin.



Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for tunnels, canopies, shipping docks, refrigerated areas, food processing, or any non-hazardous environment that requires a wet location listing.

Features

Housing - Impact-resistant, UV-resistant, fiberglass-reinforced polyester housing with cold rolled steel enclosed wireway.

Lens - High-impact acrylic diffuser standard. Secured to fully-gasketed housing by captive, tamper-resistant cam-action latches.

For non-tamper-resistant fixture, see DMW fluorescent industrial, page 91.

Latches - Six tamper-resistant latches per 4' unit, ten per 8' unit.

Finish - Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance.

Installation – Suitable for surface, chain or stem mounting.

Ballast - Thermally-protected, Class P, HPF electronic ballast standard.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for 25°C ambient and wet locations covered-ceiling installations.

Ordering Information

Series	Number
VRI	-
or tandem double ength unit, add pre-	
<i>y</i> , ,	
fix T . Example: TVRI	Not included.

nber of lamps Lamp type **32** 32W T8 (48") 48 38W Slimline (48") **3**¹ **48HO** 60W 800 mA (48") 96HO 110W 800mA (96") 96T8 59W T8 Slimline (96") 96T8H0 86W T8 380mA (96")

Lens type²

High-impact acrylic, 50% DR (blank) High-impact deep acrylic, 50% DR² PCL Polycarbonate³

Voltage

347 MVOLT

Options

Example: VRI 2 32 MVOLT GEB10IS

GEB10IS T8 electronic ballast, instant start

GEB10RS T8 electronic ballast, rapid start CSA CSA Certified

For other options and accessories, see below and page 113.

NOTES:

- 1 32WT8only
- 2 Deep lens is standard on 4' slimline, H0 (800mA) and 8' fixtures. To match appearance on 4' rapid start, order DP option.

2

3 Standard depth lens provided.

Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

		Ava	ailability and Dimensions			
	Lamps per cross	Lamps per	Lamp	Width	Depth	Length
Series	section	fixture	type	in. (cm)	in. (cm)	in. (cm)
VRI	1, 2, 3 ¹	1, 2, 3	32	7% (19.4)	4¾ (12.1)	50 (127.0)
VRI (ARDP option)	1, 2, 3 ¹	1, 2, 3	32	7% (19.4)	5% (14.3)	50 (127.0)
TVRI	1, 2	2, 4	32, 48, 48H0	7% (19.4)	5% (14.3)	98 (248.9)
VRI	1,2	1,2	96H0, 96T8, 96T8H0	7% (19.4)	5% (14.3)	98 (248.9)



General illumination for rough service (vandal resistant) applications. Designed for indoor and outdoor applications like corridors, walkways, pedestrian tunnels, canopies and drive-through areas.

Features

Housing – Heavy-duty, 16-gauge cold-rolled steel, one-piece housing for corner-mounted (VDC) or surface-mounted (VDS) applications. Housing and reinforcing members welded together for strength. Optional stainless steel or aluminum housings available.

Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens – Clear, internally frosted, UV-stabilized, injection-molded polycarbonate lens standard. Smooth exterior for easy maintenance. Lens gasketed against moisture and contaminants and secured to housing with six stainless steel Torx®

T-20 tamper-resistant screws (included).

Ballast cover – Ballast and lampholders are secured to channel cover to provide easy installation and maintenance. Channel-cover safety chains included.

Ballast – Class P, HPF ballast is UL Listed. Ballast for 32W is standard GEB10IS with a 0°F starting temperature.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for 25°C ambient and damp locations (wet locations in covered ceiling applications only)

VDC VDS

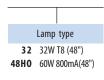


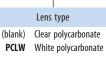
Example: VDC 2 32 MVOLT GEB10IS

Ordering Information









Voltage 347 MVOLT

		Options
	AL	Aluminum housing, white
	CW	Cold-weather ballast ^{1,2}
	CW20	Cold-weather ballast, -20°F starting ^{3,4}
	ELDW	Emergency lighting (300 lumens) ^{5,6}
	EL5DW	Emergency lighting (500 lumens) ^{6,7}
	EL6DW	Emergency lighting (600 lumens) ^{6,7}
-	EL14DW	Emergency lighting (1400 lumen) ⁷
(GEB10IS	Electronic ballast, instant start
G	EB10RS	Electronic ballast, rapid start
	GLR	Internal fast-blow fusing ⁸
	RIF1	Radio interference filter, one per fixture
	STS	Stainless steel housing, natural
	SSTW	Stainless steel housing, white
	WL	Wet location (covered ceiling only)1
	CSA	CSA Certified

- 1 Not available with EL option.
- $2\quad \text{Not recommended for use in ambient temperatures exceeding 40°F}.$
- $3\quad \text{Not available with 48HO 347V}.$
- $4\quad \text{Must be specified with 48HO for cold weather}.$
- 5 Will default to 300 or 600 lumens depending on lamp type (32-300, 48H0-600).
- 6 Luminaires ordered with DW option (Example: EL5DW) will bear UL Emergency Lighting Equipment label for damp or wet locations, depending on fixture.
- 7 Notavailable with 48HO.
- 8 Specify voltage.

	Availability and Dimensions								
	Lamps								
	per Lamp Width Depth Length								
Series	fixture	type	in. (cm)	in. (cm)	in. (cm)				
VDC	1, 2	32, 48H0	7½" (19.1)	61/8" (15.5)	50 1/16" (127.2)				
VDS	1, 2	32, 48H0	7%16" (19.2)	4½"(11.5)	50 %16" (128.5)				

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.



Door Frames and Diffusers



Troffer Options

Listed below are the door frames and shielding media available for Lithonia static and air-handling troffers. The matrix shows the availability for each option within specific troffer families.

Other diffusers in addition to those listed below are available. Contact your Lithonia Lighting sales representative.

- Option available on all models.
- Option available on **most models**; consult factory for exceptions.

Availability Matrix

	See page	Option Designation	GT8	SP8	SP	SP AIR	VRT
DOOR FRAMES Flush steel door standard unless otherwise noted. To order door frames below, add designation after lamps in catalog number.							
Regressed natural anodized aluminum	107	RN					
Regressed aluminum, white finish	107	RW					
Regressed aluminum, matte black finish	107	RM					
Flush natural anodized aluminum	107	FN					•
Flush aluminum, white finish	107	FW					
Flush aluminum, matte black finish	107	FM					
LENSES AND LOUVERS							
#12 pattern acrylic	108	A12					
#12 pattern acrylic, .125" thick	108	A12125					
#12 pattern acrylic, reverse apex, .125" thick ²	108	RA125					
#19 pattern acrylic, .156" thick	108	A19					
Low-brightness acrylic school lens	108	ASL					
Injection-molded acrylic, .140"150" thick		IM					
Vandal-resistant acrylic lens, .375" thick		VL					
Radio frequency shielding (A12; others available)	108	ARF12					
Dropped dish, matte white acrylic		AC					
White aluminum eggcrate ½" x ½" x ½"		ALE					
White plastic eggcrate, ½" x ½" x ½"		PL					
Parabolic plastic-cube, ½" x ½" x ½" ¹	108	PC1					
Parabolic plastic-cube, 1½" x 1½" x 1" ¹		PC2					
Parabolic plastic-cube, ¾" x ¾" x ½" ¹		PC3					
Parabolic plastic hex-cell, ½" deep ¹		PX					
REFLECTIVE SURFACES							
95% reflective silver	108	SSR					

- 1 Add suffix S for silver or G for gold. Example: PC1G. For acrylic, add A. Example: PC1SA.
- 2 Pattern acrylic, reverse apex, .125" thick.



Regressed Aluminum

RN - Natural anodized

RM – Matte black

RW – White



Regressed aluminum, white finish

Flush Aluminum

FN - Natural anodized

FM - Matte black

FW - White

Flush Steel

White (standard)

FSM – Matte black (optional on some models)

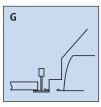


Flush steel, white finish

Ceiling Compatibility

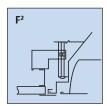
Paramax® and Optimax®

Type of Ceiling			opriate Type	
	G	F	MT	ST
Exposed grid tee				
Concealed grid tee				
Concealed Z spline				
Metal pan ¹				
Screw slot ¹				
Plaster or plasterboard				

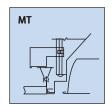


Flush aluminum, white finish

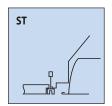
LAY-IN TRIM Exposed grid tee



OVERLAPPING FLANGED TRIM with swing-gate hangers



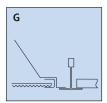
MODULAR FIT-IN TRIM with swing-gate hangers



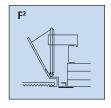
SCREW SLOT TRIM, louver flush to ceiling

SP, SP8, GT8 and VRT

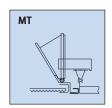
Type of Ceiling		propri rim Ty	
	G	F	MT
Exposed grid tee			
Concealed grid tee			
Concealed Z spline			
Metal pan ¹			
Screw slot ¹			
Plaster or plasterboard			



LAY-IN TRIM Exposed or concealed grid tee



OVERLAPPING FLANGED TRIM with swing-gate hangers



MODULAR FIT-IN TRIM with swing-gate hangers

Plaster Frames

Plaster frames provide a clean, square edge for wet plaster ceiling openings. Order **F trim** factory installed on fixture, then order appropriate size plaster frame option for each fixture to be installed. (Not required for drywall ceilings.)

Catalog No.		(Order separately)
PF4	Pair of sides for 4' long	
PF2	Pair of sides for 2' long	
PFE	Pair of ends for 1'x4'	
2PFE	Pair of ends for 2' wide	
20PFE	Pair of ends for 20" wide	

Filler Pans

Accessory filler pans to finish out ceiling grids. Side filler pans typically are used when 20"-wide fixtures are installed in 2'-wide grid systems. End filler pans are used to install 4' units into 5' grid systems.

Catalog No.	(Order separately)
2FP2	Side filler pans (pair), white, 2" wide, 2' long.
2FP6	End filler pans (pair), white, 6" wide, 2' long.
4FP2	Side filler pans (pair), white, 2" wide, 4' long.
20FP6	Side filler pans (pair), white, 6" wide, 20" long.

Drywall Grid Adapter

Drywall grid adapters (**DGA**) are used to install grid trimmed troffers in plasterboard or other hard ceilings. Order DGA accessories separately. Compatible with all lay-in troffers. Order using DGA plus nominal fixture size. Example: **DGA24**.

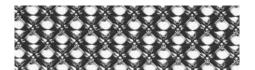
Metric Availability

Metric versions of some recessed fluorescent fixtures are available. Consult your Lithonia Lighting sales representative.

NOTES:

- 1 Consult factory prior to order.
- ${\bf 2} \quad \mbox{ Requires CRE and CRM trim options for continuous row mounting.}$





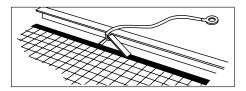
A12*

- Standard Lithonia shielding
- Extruded, clear 100% acrylic
- 3/₁₆" female prisms
- Nominal .095" thick (.125", .156" and .187" optional)

Example: 2GT8 4 32 A12 MVOLT 1/4 GEB10IS

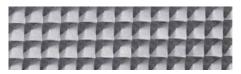
Add suffix **T** for tinted.

* Reverse apex prism design used on SP8 only. (for .125", specify RA125)



Radio frequency shielding

- For hospitals, TV stations or wherever sensitive electronic equipment is in use
- Choice of patterns and thicknesses
- Not available in fixtures with lens gasketing



Δ19

- High VCP very low brightness in direct glare zone
- 3/16" square-base male conical prisms
- High efficiency
- Minimizes lamp image
- Nominal .156" thick (.187" optional)

Example: **2SP8 G 3 32 A19 MVOLT 1/3 GEB10IS** Add suffix **T** for tinted.

To order any lens with optional thickness, add thickness to designation.

Example: **2SP8 G 3 32 A12125 MVOLT GEB10IS**



ASI

- Acrylic school lens, developed for lighting applications where brightness control is critical (schools, libraries, etc.)
- Extruded, clear 100% acrylic
- Nominal .156" thick (.187" optional)

Example: **2SP8 G 3 32 ASL MVOLT 1/3 GEB10IS** Add suffix T for tinted.



PC₁

- Injection-molded parabolic polystyrene plastic louver
- ½" x ½" x ½" square cell, 45° shielding
- Specify choice of specular gold (**G**) or specular silver (**S**)

Example: **2SP8 G 3 32** *PC15* **MVOLT 1/3 GEB10IS** Add suffix **A** for acrylic.



PC2

- Injection-molded parabolic polystyrene plastic louver
- 1½" x 1½" x 1" square cell, 35° shielding
- Specify choice of specular gold (**G**) or specular silver (**S**)

Example: **2SP8 G 3 32** *PC25* **MVOLT 1/3 GEB10IS** Add suffix **A** for acrylic.

95% minimum-reflectance silver inserts.

10-year warranty by material manufactur-

er. See pages 112-113 for availability.

Reflective Surface

SSR



PC3

- Injection-molded parabolic polystyrene plastic louver
- 34" x 34" x 1/2" square cell

sales representative.

Specify choice of specular gold (**G**) or specular silver (**S**)

Example: **2SP8 G 3 32** *PC35* **MVOLT 1/3 GEB10IS** Add suffix **A** for acrylic.

Additional lenses and louvers available. Consult factory or Lithonia Lighting



Small-Cell

- Small-cell aluminum parabolic louvers for SP AIR and SP8
- Choice of cell size and 1½" or ¾" depth
- Specify number of cells, plus louver depth (15 for 1.5" and 75 for .75") and finish. For 78 cells, 1.5" deep, specular finish:

Example: 2SP G B 3 32 7815LSMVOLT 1/3 GEB10IS.



Electrical, Wiring and Miscellaneous Options

Troffer Options

Listed below are major electrical wiring and other options available for Lithonia Lighting static and air-handling troffers. The matrix shows the availability of each option within specific troffer families.

Certain combinations of options are incompatible in the same fixture. Consult factory for details.

- Option available on all models.
- Option available on most models; consult factory for exceptions.



Availability Matrix

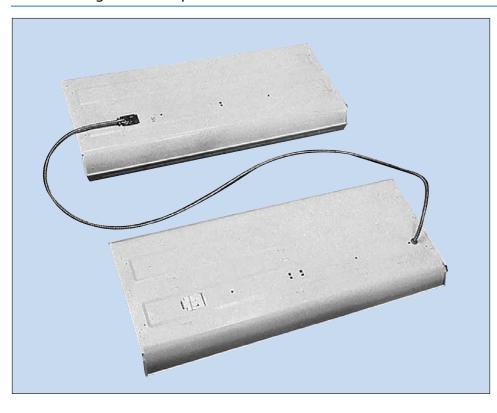
	See page	Option Designation	GT8	SP8	ςp	SRT SRH	SP AIR	VRT	PM2 PM4	PMO PM3 HPM3	2PM3N	NAT CNAT	AV	WW
ELECTRICAL		er, add designation				51111				III III S	21 111311	Civil		
Ballast options	115	_												
Dimming ballasts	_	_					۵				۵			
Multi-volt ballasts (120-277V) ¹		MVOLT	•						•		•			
Emergency lighting ²	116	EL/EL14	•						•		•			
Fusing	115	GLR/GMF	•						•		•			
Radio interference filter	116	RIF												
Labeled for fire-rated ceiling	115	FR	•				•		•					
WIRING	To ord	er, add designation	as a suffi	x to fixtur	e catalog	number,	unless othe	erwise no	ted.					
Prewiring	115	PW_												
Labor-saving tandem	110	LST	•				•		•		•			
Reloc® wiring systems	682	_												
MISCELLANEOUS	To ord	er, add designation	as a suffi	x to fixtur	e catalog	number,	unless othe	erwise no	ted.					
2 channel covers installed	_	2R							•		•			
Tamper-resistant door ^{3, 6}	116	TPS/TP4												
Additional lens gasketing	_	LG												
T-bar safety clips (snap-on) ⁴	115	HTC	•				•		•		•			
T-bar safety clips (screw-on) ⁴	115	LATC	•						•		•			
Air-pattern control blades	111	АРВ												
Heat-removal dampers	111	HRD												
Air closure strips	111	ACS												
Lamps furnished and installed	116	_												
Job pack ⁵	116	JP												

NOTES:

- 1 Consult factory for availability.
- 2 Addition of emergency battery pack options may increase overall fixture depth. Consult factory.
- 3 TPS = one tamperproofscrew per latch, TP4 = 4 tamperproofscrews (2 on latch side, 2 on hinge side).
- 4 Integral T-bar safety clips are standard for most models of GT8, SP8, SP, 2pm2,2pm4,2PM3N and 2PM0 fixture families. Also available on 1x4 PM3, PM0 and HPM3 fixtures. Consult factory for specific exceptions.
- 5 Palletized and stretch-wrapped without individual cartons. Available for **G** (grid) and **MT** (modular) trims only.
- 6 VRT standard with 4 tamperproof screws.



Labor-Saving Tandem Option



REDUCES THE NUMBER OF BALLASTS REQUIRED FOR FLUORESCENT TROFFERS.

- Simple, snap-together design.
- Uses half the connections.
- Uses *half* the wiring and components.
- Available on all sizes and types of Lithonia troffers with access plates.
- Wiring connections for both fixtures located at one access plate.
- Interconnection cable is fully prewired and pre-assembled.
- Polarized nylon plugs ensure positive connections, prevent miswiring.
- Identified ballast leads simplify multi-level switching.

Simply wire in the Master unit using hardwiring, prewiring or Reloc[®] wiring.

Then snap-connect the Satellite unit to the Master unit. Installation is complete.

Ordering Information Example: 2SP8 G 3 32 A12 MVOLT GEB10IS LST11

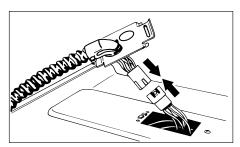
- 1. Select desired troffer model.
- Add one of the following as a suffix to standard Lithonia Lighting catalog number:

LST 9' cable (standard cable length)

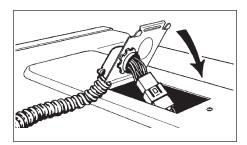
LST7 7' cable
LST11 11' cable

(Consult factory for other lengths.)

NOTE: Order fixtures in pairs. Factory will supply correct number of Master and Satellite units.

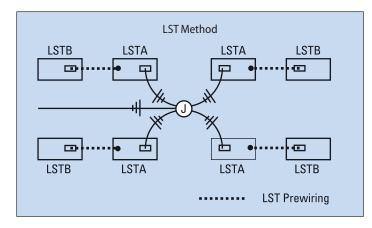


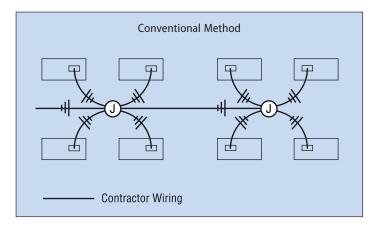
Join nylon connector



Close access plate

LST saves up to 40% of installation labor and wiring costs.







Lithonia Lighting manufactures a complete line of troffers designed to provide any level of air-handling capability, from simple heat removal to a combination of all air functions. Compatible with a full range of air equipment by major man-

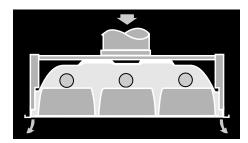
ufacturers, these fixtures comprise the most complete and comprehensive family of air-handling troffers available.

Ductwork, including air boots, supplied by others.

Best choice for...

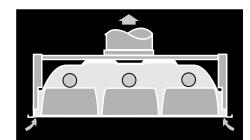
- Dependable performance
- Application flexibility
- Air-equipment compatibility

Complete Air-Handling Capability



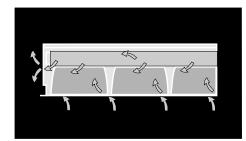
A – Air Supply

Air is supplied to occupied space through slots in side rails. Air diffusers connected to slots provide cooled or heated air to the space. Optional air-pattern control blades control airflow. Available on SP AIR, Paramax® and Optimax®.



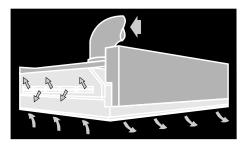
A – Air Return

Air is removed from occupied space through slots in side rails. Air is returned to plenum or to air diffusers connected to slots. Available on SP AIR, Paramax® and Optimax®.



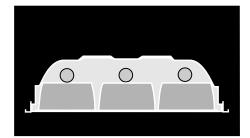
H – Heat Removal

Room air and fixture heat are removed through slots in the top or end of fixture housing. Slots in top are louvered to minimize entry of plenum contaminants into lamp cavity. Optional dampers available to control air flow. Available on SP AIR, Paramax® and Optimax®.



D - All Air Functions

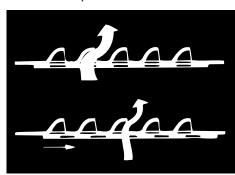
Full-function air-handling capability. Dual-function air supply and/or return through side rails and heat removal through lamp cavity. Available on SP AIR, Paramax® and Optimax®.



B - No Air Functions

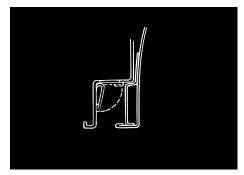
Static troffer that provides no air functions, but matches other models in appearance for continuity of design. Available on SP AIR, Paramax® and Optimax®.

Air Control Options



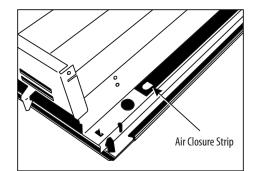
HRD - Heat-Removal Dampers

Designed to adjust or close off airflow through louvered slots on heat-removal models. Accessible from below. Design varies by fixture.



APB - Air-Pattern Control Blades

Designed to adjust or direct airflow on air supply/return models. Adjusts without tools from fully open to fully closed. Accessible from below.



ACS – Air Closure Strips

Designed to convert fixture from air-handling to static in the field (no tools required). Not accessible from below.





Electrical, Hanging and Miscellaneous Options



Availability

Listed below are the major electrical and other options available for Lithonia Lighting commercial fixtures. The matrix shows the availability of each option within specific fixture families.

Additional options and accessories are available. Contact your Lithonia Lighting sales representative for information.

- Option available on all models.
- Option available on most models; consult factory for exceptions.

Commercial Fixtures

	Option Designation	PMOX PM3X	M VRS	SSH	AW	CA	SB	LB CB	CS	CLM	VC
ELECTRICAL											
Energy-saving systems	ES										
Ballast options (page 115)	_	۵								۵	
Dimming ballasts	_	۵					۵			۵	
Multivolt ballast (120-277V range) ¹	MVOLT							۵		۵	
Emergency lighting ²	EL, EL14									۵	
Fusing	GLR/GMF										
Radio interference filter (page 116)	RIF									۵	
HANGING DEVICES											
Swivel-stem hanger (page 117)	SQ_	۵								•	
Double-stem hanger (page 117)	DSH24									۵	
Ceiling spacer (page 117)	1B	۵								•	
Hooker® hanger (page 117)	HRC/HRC1										
Single stem rod	SQRH_										
MISCELLANEOUS											
95% reflective silver (page 108)	SSR	۵						۵			
Tamper-resistant (page 116)	TPS										
Spring-loaded latch (page 116)	SLL										

NOTES

- 1 Consult factory for availability.
- $2\quad For CSA\,emergency\,lighting, add\,prefix\,B50C.$

 $Order\ hanging\ devices\ as\ accessories, using\ separate\ catalog\ numbers.\ Order\ options\ by\ adding\ suffix\ to\ catalog\ number,\ unless\ otherwise\ noted.$

Metric Availability

Metric versions of some surface fluorescent fixtures are available. Consult your Lithonia Lighting sales representative.



Electrical, Hanging and Miscellaneous Options

Availability

Listed are the major electrical and other options available for Lithonia Lighting strip and industrial fixtures. The matrix shows the availability of each option within specific families.

Additional options and accessories are available. Contact your Lithonia Lighting sales representative for information.

- Option available on all models.
- Option available on most models; consult factory for exceptions.



Strips and Industrials

											RR							
			SS	AF		EJS	L	DMW	DMS	DM	CRR		HB5	MS8	MS5			UNS
	Designation	SM	SST	AFP	PV	EJD	LA	VRI	DMSW		CRRS	IB	HBB	MS5HB	MS5SS	S	C	UND
ELECTRICAL																		
Plug-in (page 114) PLI	R_G/PLF_G																	
Tandem quick-connect (page 114)	TWP										-							•
Emergency lighting (page 116) ¹	EL, EL14																	
Fusing (page 115)	GLR/GMF																	
Radio interference filter (page 11	6) RIF																	
Cordset, 120V (U-ground plug) (page 116)	CS1			•	•													•
Cordset, 120V (twist-lock grounded plug) (page 116)	CS3			•	•													•
Cordset, 277V (U-ground plug) (page 116)	CS7				-													•
Cordset, 277V (twist-lock	CS11																	
grounded plug) (page 116)	(311																	
HANGING DEVICES																		
Tong (slide clamp) hanger (page 117)	THUN			-														۵
	TH2UN																	
Hooker® hanger (page 117)	THC																	
	HR_																	
Swivel-stem hanger (page 117)	SQ_																	
Double-stem hanger (page 117) ²	DSH24																	
Ceiling spacer (page 117)	1B																	
Chain hanger (page 117)	HC36																	
MISCELLANEOUS																		
95% reflective silver (page 108)	SSR																	
Wireguards (page 117)	WG_																	
Aluminum housing	AL																	

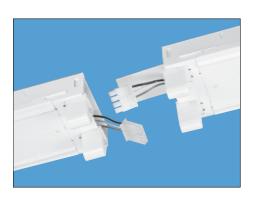
NOTES:

- 1 For CSA emergency lighting, add prefix B50C. See page XX.
- 2 Available on most 4' fixtures. Consult factory.

 $Order hanging devices and wire guard accessories as separate catalog numbers. \\ Order options by adding suffix to catalog number, unless otherwise noted.$



PLF – Advanced 3-Circuit Plug-In



Advanced plug-in system with three-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLF22 (2-circuit) and PLF33 (3-circuit) crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps

save energy. Rows can be 50% longer with twocircuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA Certified systems available with up to 2 circuits. **G** ground required.

Example: UND 2 96HO 120 ES PLF3C

Ordering Information

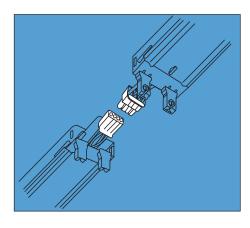
Number of "hot" wires Series **Branch circuits** Ground Not required for 22 or 33 (Circuits to which ballasts are connected) No ground in PLF (blank) PLF22 1 Black Ground. Maximum 2 circuits Not required for 22 or 33 PLF33 2 Black and red Black wire 3 Black, red and blue¹ Red wire C Blue wire¹ Outboard lamps to black, inboard to red NOTES: AC Outboard lamps to black, inboard to blue 1 Ground not available.

Typical Applications

- Multiple circuit and single circuit for longer continuous rows
- Multiple circuit with alternating fixtures on separate circuits, 2-circuit (PLF 22) and 3-circuit (PLF 33)
- Multiple circuit with night-lights located along row as desired

PLF 3 C	PLF 3 C	PLF 3 C	PLF 3 C	PLF 2 B	PLF 2 B	PLF 2 B	PLF 2 B	PLF 1	PLF 1	PLF 1
(All PLF 2	2)									
Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A
(All PLF 3	3)									
Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B
PLF 3 A	PLF 3 A	PLF 3 A	PLF 3 C	PLF 3 B	PLF 3 B	PLF 3 B	PLF 3 C	PLF 3 A	PLF 3 A	PLF 3 A

Tandem Quick-Connect Plug-In



Fully prewired secondary wiring for continuous row, strip and industrial applications. Simply install two channel sections and connect plugs.

One worker can install – more efficient than a two-worker installation of one 16-foot length. Lock-together nylon plugs are polarized to prevent miswiring.

Available on all tandem-wired (T) strip, industrial fixtures and a variety of architectural row-mounted products.

TWP and **TILWP** available. Consult factory.



PW - Prewiring Option

(Troffers only)

Complete range of prewired whips for every installation requirement.

- Factory-installed flexible cable, wired into fixture through access plate.
- 3/8" cable with snap-in connectors standard. ½" cable optional.
- Choice of wire gauge.
- Up to five wires, including one neutral (white) and one ground (green) permits multi-level switching.
- Ready to connect to J-box.



Develop 6- or 7-digit suffix as explained below. Add suffix to fixture catalog number.

Ordering Information

Example: 2GT8 3 32 A12 MVOLT 1/3 GEB10IS PWS1836

(3/8" flex cable with three No. 18 AWG leads B, W, GR, cable 6' long.)

Family	Cable	Wire gauge	Number of wires	Cable length
PW Prewire	(blank) ½" dia. S ³ / ₈ " dia.	12 14 18	3 1 circuit 4 2 circuits 5 3 circuits	6 6 feet

T-Bar Safety Clips

Screw-on Clips (Troffers only)

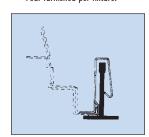
LATC Hold-down clips to secure troffer to T-bar. Field installed. Attach by screwing to fixture end plates. Four furnished per fixture.

Example: 2PM4 G B 3 32 18LD 120 GEB LATC

NOTE: Safety clips may be used on fixtures with integral T-bar clips if additional means of attachment are required.

Snap-on Clips (Troffers, RR, CRR)

HTC Hold-down clips to secure troffer to T-bar. Four furnished per fixture.



Ballast Options

CW Cold-weather ballast; 0°F starting for RS slimline lamps and some T8 lamps

CW20 Cold-weather ballast; -20°F starting for HO and PG lamps.

GEB10IS Electronic ballast, instant start maximum 10% THD.
(32T8 only, other wattage may vary by lamp or
wattage type. MVOLT standard. Factory choice; see
page 708 for specification and ordering information.

GEB10PS Electronic ballast, program start maximum 10% THD. Factory choice; see page 708 for specification and ordering information.

GEB10RS Electronic ballast, rapid start, maximum 10% THD.
Factory choice; see page 708 for specification and ordering information.

EBH Electronic ballast, instant start with 1.20 (nominal) ballast factor. Factory choice; see page 708 for specification and ordering information.

Example: C 2 32 MVOLT GEB10IS

Fusing

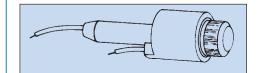
One per ballast furnished. Fusing not recommended for use with 277V magnetic dimming ballasts.

Internal Fusing

BKTK Internal fast-blow fuse. For use in 347V fixtures.

GLR Internal fast-blow fuse.

GMF Internal slow-blow fuse.



External Fusing

(Strips and open industrials only)

GLRX External fast-blow fuse.
GMFX External slow-blow fuse.



Construction for Fire-Rated Ceilings

(Troffers only)

FR Lithonia fluorescent troffers are UL Listed and are compatible with UL fire-rated ceiling assemblies. Upon request for the FR option, the FR label is applied to the back of the housing. Label states: This troffer is specially designed to be installed in fire-rated or insulated ceilings.

Example: 2GT8 4 32 A12 MVOLT 1/4 GEB10IS FR

NOTE: Not applicable for CSA or NOM listings. Some dimming and some compact lamp troffers may require electronic ballasts.



Miscellaneous Options

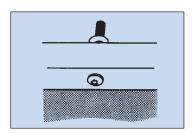
Tamper-Resistant Doors

Tamper-resistant Torx head T20H (with pin) screws to secure door to housing.

> Torx head T20H screws − 1 per latch TP4 Torx head T20H screws - 2 latch side/ 2 hinge side

Example: 2SP G 3 40 A12 120 ES TPS

Note: Four Torx head T20H screws are standard on VRS and VRT



Spring Latches (Troffers and M Series only)

Spring-loaded latch option

Spring-action latch option for 2GT8 only. SAL

Example: 2M 4 40 FW A12 120 ES SLL

Lamps Furnished and Installed (Troffers only)

LPESCW	Energy-saving cool white
.PESWW	Energy-saving warm white
LP730	Min. 70 CRI & 3000K color temp.
LP735	Min. 70 CRI & 3500K color temp.
LP741	Min. 70 CRI & 4100K color temp.
LP830	Min. 80 CRI & 3000K color temp.
LP835	Min. 80 CRI & 3500K color temp.
LP841	Min. 80 CRI & 4100K color temp.
xample:	2SP8 G 3 32 A12 120 GEB LP735

Radio Interference Filters

Inductive capacitor circuit designed to minimize in-RIF terference from feedback into line. 120V or 277V, 50Hz or 60Hz. Order either one per fixture (RIF1) or one per ballast (RIF2).

Example: 2SP8 G 3 32 A12 277 GEB RIF1

Inductive capacitor circuit designed to minimize interference from feedback into line. Meets MIL-STD 461A/462/463. Order either one per fixture (EIS1) or one per ballast (EIS2).

Example: 2SP8 G 3 32 A12 120 GEB EIS2

Cordsets

Grounded, three-wire cordsets (black) are 6' long, 18-gauge, with SJT insulation. Prewired to fixture. Others available; consult sales representative.

> 120V, U-ground plug (NEMA 5-15P) 120V, twist-lock plug (NEMA L5-15P) CS3 CS7 277V, U-ground plug (NEMA 7-15P) CS11 277V, twist-lock plug (NEMA L7-15P) 347V, twist-lock plug (NEMA L24-20P) **CS24**

Example: AF 2 96 277 CS7

CS1



Emergency Battery Packs

Factory-installed Lithonia Emergency Systems battery pack available for most fluorescent fixtures. See Emergency Systems section for lamp and ballast compatibility. Addition of an emergency option may increase fixture depth in some 2'x2' troffers. Consult factory.

UL	CSA	
Listed	Certified	
EL	B100C	Fixture equipped for one-lamp emergency operation of 4' lamps. (PS300 installed)
EL5	B90C	Fixture equipped for one-lamp emergency operation of 4' lamps. (PS500 installed)
EL6	B70C	Fixture equipped for one-lamp or two- lamp emergency operation of 4' lamps and one-lamp emergency operation of 8' lamps. (PS600 installed)
EL14	B50C	Fixture equipped for one-lamp or two- lamp emergency operation of 4' lamps and one-lamp operation of 8' lamps. (PS1400 installed)
EM	CEM	Inverter only option. Fixture labeled for

Add suffix ${\bf DW}$ to catalog number to specify damp/wet listing. UL Listed only. Example: EL6DW

emergency use, no integral ballast.

Packaging

 $\underline{\sf JP}-\underline{\sf Job}\, \underline{\sf Pack}$ Consult factory for availability.

Job-site load of fixtures on pallets, wrapped without individual cartons. Secured to pallet.

- No carton disposal.
- Faster and easier to unload.
- $Superior\ protection-reduces\ handling\ damage.$
- Paramax® and other Lithonia troffers G grid and MT modular trim only, packed with end protectors, secured to pallet by heavy-duty plastic.
- Industrials and strips protected by heavy-duty corrugated sheet and secured to pallet. Reflectors packed separately.

Add suffix JP to fixture catalog number. Factory will determine number of fixtures per pallet.

Example: 2GT8 4 32 A12 120 GEB JP



Miscellaneous Options

Wireguards (Order separately)

14-gauge baked white enamel, 4' long. Order two for 8' fixtures.

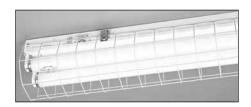
Catalog number:

UN (with UNASR48 reflector)	WGUNASR
2UN (9" wide)	WG2UN
UNS/UND	WGCUN
C (with CASR48 reflector)	WGCASR
C (with CSMR48 reflector)	WGCSMR
S (with SASR48 reflector)	WGSASR
S (with SSMR48 reflector)	WGSSMR
S (without reflector)	WGS
AF, PV	WGAFPV
EJ (12" wide)	WGJ
2F1 (16" wide)	WG2EJ

For use with:

For optional 11-gauge construction, add suffix 11 to catalog number. Example: WGSASR11

WGL



Swivel-Stem Hangers (Order separately)

SQ_ Complete assembly with stem up to 48" (consult factory for longer lengths). Specify stem length in 2" increments and adjust as needed. 5/8" 0.D. stem. Swivels 30° from vertical in any direction.

Example: **SQ24**

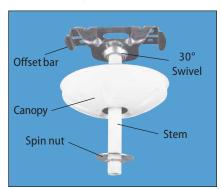
HDSQ_ Complete heavy-duty assembly. Specify length in 2" increments and adjust as needed, swivels 45° from vertical. Example: HDSQ36

ST_ Pipe stem only. Specify length up to 60". Example: **ST18**

Q Canopy, offset bar and parts only.

ST_TBE Pipe stem only, threaded both ends. Coupler included. Specify length from 6" to 60". Example:

ST48TBE.



Ceiling Spacer (Order separately)

1B Hanger spaces fixtures 1½" to 2½" from ceiling. For unit mounting, order two per fixture; for row mounting, order one per fixture plus one per row. Standard pack: 2, 20, 100.



Chain Hangers (Order separately)

HC Wire hook and 36" chain set, option or accessory. One pair per fixture furnished. Not compatible with fixtures over 5" wide.

Example: UN 2 32 120 HC or HC36 (accessory)

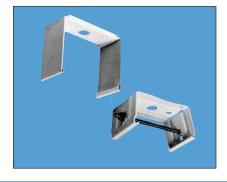


Tong Hangers (Order separately)

Order by channel width. For unit or row mounting, order two per fixture. All tong (slide clamp) hangers are suitable for use with 3/8" or smaller mounting rods. Rods smaller than 3/8" diameter require use of appropriate washers (supplied by others). Standard pack: 2, 100.

THUN Hanger for 5" channel
TH2UN Hanger for 9" channel
THC Hanger for 43/16" channel
THK Hanger for 5" channel

Hanger for 5" channel (uses carriage bolt mounting rod)



Double-Stem Hangers (Order separately)

DSH24 Complete assembly with double canopy and two 24" stems on 10" centers. For most 4' fixtures. Other stem lengths available.

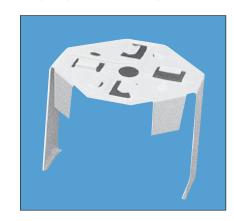


Hooker® Hangers (Order separately)

Patented, no-tools system for easy mounting to grid tee ceilings. For use with inverted tee exposed grid ceilings, nominal 1" wide.

- Hooks anywhere on grid main tee, cross tee or intersection
- Die-formed from heavy-gauge steel.
- Fixture can be mounted parallel or perpendicular to grid, flush to ceiling or 1½" below tee.

Two required per fixture. Standard pack: 10, 48.



light quick°XD Express delivery products.
See page11 for details about LightQuick XD.
Description
WGL
WGCUN
HC36

Number	Type of mounting	For use with
HRC	Flush to ceiling	CB, L, C and ALC fixtures with
HRC1	Spaced 1½" from ceiling	$4^3/_{16}$ " wide and $2^1/_{16}$ " deep channels.
HRUN	Flush to ceiling	PV, AF fixtures
HRUN1	Spaced 1½" from ceiling	with 5" channels
HRUNS1	Spaced 1½" from ceiling	UN, S, EJS

HOOKER® Hanger, Pat. No. 3,589,660







High Performance and Specialty Fluorescent

High Efficiency Fluorescent Saves Energy Superior optical design combined with lamp and ballast technology advancements have made fluorescent lighting one of the most efficient choices available today. Typical applications include retail, warehouse, commercial, gymnasium and industrial facilities.

Specialty Application Solutions

SpecLight's in-house design, engineering and testing capabilities provide custom and specialty application fluorescent luminaires. Custom reflector designs, special finishes and unique housings can be accommodated.

Induction Lamp Luminaires

SpecLight offers a wide variety of luminaires that utilize induction lamp technology for applications where maintenance accessibility is limited or for environments with high vibration.



SpecLight Offers NEW Induction Lamp Luminaires







CONTENTS

Gymnasium	High Bay			120
Fluorescent	Gymnasium	High	Bay	

Induction High Bay Induction Low Bay

Induction

Cold Storage 122

Cold Storage Fluorescent

High Efficiency Strip 123

T5HO MIRO®4 Reflector T8 MIRO®4 Reflector

Induction 124

Recessed 1, 2, 3 Lamp Surface 1, 2, 3 Lamp Wall Mount 1, 2, 3 Lamp

Heavy-Duty Unibody Industrial 125

Narrow T5HO, T8 Unibody Medium T5HO, T8 Unibody

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T5HO Broad Distribution

Architectural Recessed Indirect 127

Indirect Angled Sides Indirect Perforated Curved Sides Indirect Stepped Sides



FGB

Fluorescent High Bay Specular Reflector with Wirequard



Intended Use

Ideal replacement for HID high bay luminaires. Surface-mounted or suspended. Provides large-area lighting in a variety of photometric distributions designed specifically for gymnasiums and indoor sports facilities.

Features

Channel, ends and socket brackets are minimum 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where applicable, HPF, non-PCB, Sound Rating A. Bal-

lasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Lamp shielding options are provided with a 22ga., premium polyester powder coat finish with two painted hinges and two painted opposing rotary cam latches. Lenses are held in place with lens clips.

May be suspended by chain or cable or monopoint-mounted with appropriate accessories.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Listings

UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

Ordering Information

Series/lamp configuration

FGB164 4 16"x4', 4-lamp profile

FGB24 6 2'x4', 6-lamp profile

FGB168 4 16"x8', 4-lamp profile

FGB28 6 2'x8', 6-lamp profile

11/S

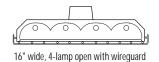
1.8<SC **F1** Focus beam

Lamp type

32 32W T8 (48") **54T5H0** 54W T5HO (46")

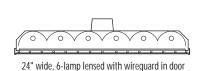
NOTES:

- 1 Whitepowdercoatreflectoravailableonlywith a N1 (Normal beam) distribution.
- 2 Available with T5H0 lamps only



24" wide, 6-lamp open with wireguard

.



Photometric distribution

T1 Task beam
0.9≤SC<1.2

V1 Normal beam
1.2≤SC≤1.4

S1 Spread beam

1.4<SC<u><</u>1.8 **B1** Broad beam

F1 Focus bear SC<0.9²

Lamp shielding (door)

Reflector

X12 MIRO® 4, 0.012"

4,0.020"

D20

D20U

Uplight, MIRO®

White powder

coat, 0.020"1

Uplight powder

coat, 0.020"1

(blank) No shielding
A12 Pattern 12 acrylic, 0.110"
A12WG Pattern 12 acrylic, 0.110"
w/wireguard in door frame
ACL Clear acrylic, 0.125"
Wireguard in door frame
PCL125 Clear polycarbonate, 0.125"
ACLWG Clear acrylic, 0.125" with

wireguard in door

THSDSK

Voltage

MVOLT 347 (T8 only)
HVOLT (T5H0 only)

Ballast configuration

(blank) All 2-lamp ballasts 1/4 (1) 4-lamp ballast 1/41/2 (1) 4-lamp and (1) 2-lamp ballast 2/3 (2) 3-lamp

Ballast type

GEB10PS 1.0 BF, ≤10% THD, PRS (T5H0 only)

GEB Normal BF, ≤10% THD, IS (T8 only)

GEBH High BF, ≤10% THD,

Example: FGB24 6 54T5HO T1X12 MVOLT GEB10PS LP841

IS (T8 only)

GEBL Low BF, ≤10% THD,
IS (T8 only)

Lamps (factory installed)

(blank) No lamps
LP830 85 CRI, 3000°K, std. life
LP835 85 CRI, 3500°K, std. life
LP841 85 CRI, 4100°K, std. life
LP850 85 CRI, 5000°K, std. life

Amalgam lamps

LP830A 82 CRI, 3000°K, (T5H0 only) LP835A 82 CRI, 3500°K, (T5H0 only) LP841A 82 CRI, 4100°K, (T5H0 only)

Options

AL Aluminum construction, PAF PAF Powder coat after

fabrication

WG Wireguard, 11ga.,

PAF (external – no door required)

TC Top protective cover

OUTCTR Wiring leads
through center of
fixture
(for use with

(for use with Monopoint hanger when using hanger as a wiring connection point)

Accessories (order as separate catalog number)

MHYTGB10 Aircraft cable 10' Y hangers (1 pair)
HC36 Chain hanger 36"
THSD Monopoint hanger with 3/4" KO
THSDHB Monopoint hanger with 3/4" hub
THSDHBHKM Monopoint hanger with male fixture hook

connection point)

Side covers for Monopoint hanger (For use with Monopoint hanger when using hanger as a wiring

	Availability and Dimensions							
Nominal size	Series	Number of lamps	Lamp type	Width	Height	Length		
16"x4'	FGB164	4		16"		48"		
2'x4' 16"x8' 2'x8'	FGB24 FGB168 FGB28	6 (2) 4 (2) 6	32, 54T5H0	24" 16" 24"	4.7"	96"		



FIB and FIL Series luminaires are the perfect replacement for HID high bays and low bays. Typical applications include industrial and manufacturing areas with high vibration or difficult maintenance. These luminaires are designed for large area lighting applications (5,000-1,000,000+ sq. ft.) and may be mounted at heights of 18' to 50'+.

Features

Channel, ends, socket brackets and ballast housings are manufactured from minimum 22-gauge cold-rolled steel, riveted and screwed assembly. Tool-less ballast and wiring access is provided.

The FIB luminaire may be suspended by chain or cable, or may be monopoint mounted with appropriate accessories. The FIL luminaire also is available with hook, cord and plug optional mounting hardware.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Reflector for FIB Series is precision formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum warranted for 25 years. Reflector for FIL Series is UV-stabilized, acrylic with 15-20% uplight.

Listings

UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

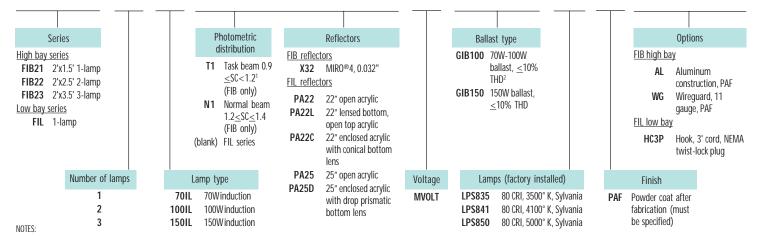
FIB FIL

Specular or Acrylic Reflector



Ordering Information

Example: FIB23 3 150IL T1X32 MVOLT GIB150 LPS841

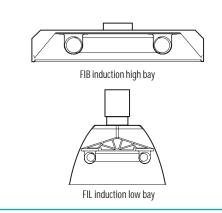


1	Task beam available for high bay only.
---	--

² GIB100 ballastruns 70W and 100W lamps.

	Availability and Dimensions — FIB High Bay								
Nominal size	Series	Number of lamps	Lamp type	Width	Heiaht	Length			
2'x1.5'	FIB21	1		Widti	noight	17"			
2'x2.5'	FIB22	2	70W,100W,150W	24"	5.4	29"			
2'x3.5'	FIB23	3				41"			

Availability and Dimensions — FIL Low Bay							
Nominal		Number	Lamp				
size	Series	of lamps	type	Width	Height		
22"	FIL PA22	1	70W,100W,150W	22.4"	26"		
25"	FIL PA25	2		25.5"	20		







Intended Use

Designed for cold storage areas to 0° F and may be mounted at heights of 15' to 40'. This fluorescent fixture is the perfect replacement for HID luminaires, and provides opportunities for significant reductions in energy consumption.

Features

Housing, channel, ends and socket brackets are manufactured from 22-gauge cold-rolled steel. Parts are assembled using rivets and screws with polyester powder coat after fabrication for surface protection from moisture. Tool-less ballast and wiring access.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum warranted for 25 years.

Lamp shielding options are provided with a 22ga. premium polyester powder coat finish door frame with two painted hinges and two painted opposing rotary cam latches. Lenses are held in place with lens clips. Fixture is provided with double gasketing around door frame and lens.

Finished in premium polyester powder coat finish, utilizing a 7-stage pretreatment process of iron phosphate, a non-chromium sealer and a de-ionized water rinse to provide superior adhesion and corrosion resistance.

Ballasts are electronic, energy saving, thermally protected, Class-P, HPF, non-PCB, Sound Rated A, UL Listed/CSA Certified where applicable and comply with Federal Ballast Law (Public Law 100-357, 1988).

May be surface mounted or may be suspended by chain or cable.

Lamps are available in various CRI ratings, temperature colors and rated life.

Listings

Electrical - UL listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for

Ordering Information



FFB14 4 1'x4', 4-lamp

FFB164 4 16"x4'.

4-lamp FFB24 6 2'x4',

6-lamp

Lamp type

32 32W T8 (48")

54T5H0 54W T5H0 (46")

Photometric distribution T1 Task beam 0.9<u><</u>SC<1.2 Normal beam 1.2<u><</u>\$€ 1.4¹ Spread beam $1.4 < SC < 1.8^{1}$ Broad beam

Reflector X12 MIRO® 4. 0.012"

Lamp shielding

A12 Pattern 12 acrylic, 0.110"

PCL125 Clear polycarbonate, 0.125"

ACL Clear acrylic, 0.125"

MVOLT 347 HVOLT

Voltage (T8 only) (T5H0 only)

Ballast type **GEB10PS** 1.0BF≤10% THD, PRS (T5HO only) GEB Normal BF, ≤10% THD, IS (T8 only) **GEBH** High BF, ≤10% THD, IS (T8 only)

 $\textbf{GEBL} \ \ \, \text{Low BF,} \, \, \underline{<} 10\%$ THD, IS (T8 only)

Ballast configuration

All 2-lamp ballasts (blank) 1/4 (1) 4-lamp ballast 1/41/2 (1) 4-lamp & (1) 2-lamp ballast Lamps (factory installed)

(blank) No lamps LP830 85CRI, 3000°K, std. life

Example: FFB14 4 54T5HO T1X12 MVOLT GEB10PS LP841

LP835 85CRI, 3500°K, std. life

LP841 85CRI, 4100°K, std. life **LP850** 85CRI, 5000°K, std. life

Amalgam lamps

LP841A

LP830A 82CRI, 3000°K, std. life (T5H0 only) LP835A 82CRI, 3500°K, std. life (T5HO only)

82CRI, 4100°K, std. life (T5HO only)

Options

AL Aluminum construction, PAF PAF Powder coat after fabrication

Wireguard, 11 ga., PAF (exterior mounting)

Internal fast blow fusing²

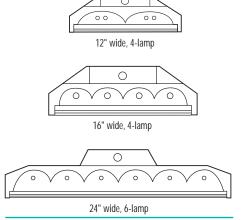
NOTES

- Not available for FFB14 Series.
- 2 Single voltage MUST be specified with this option.

Accessories (order as separate catalog number)

MHYTGB10 Aircraft cable 10' Y hangers (1 pair) Chain hanger 36" HC36

	Availability and Dimensions								
Nominal size	Series	Number of lamps	Lamp type	Width	Height in.	Length			
1'x4'	FFB14	4		12"					
16"x4'	FFB164	4	32, 54T5H0	16"	4.7"	48"			
2'x4'	FFR24	6		24"					





High performance premium industrial for applications where optimum photometric performance is required. Surface-mounted or suspended. A wide selection of highly efficient reflectors is available for 1, 2 or 3-lamp cross-sections.

Features

Channel, ends and socket brackets are minimum 22-gauge cold-rolled steel. Snap-together components make installation fast and easy.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where

applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

May be suspended by chain or cable or surface mounted.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Listings

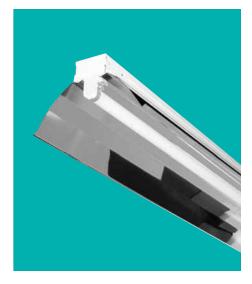
UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

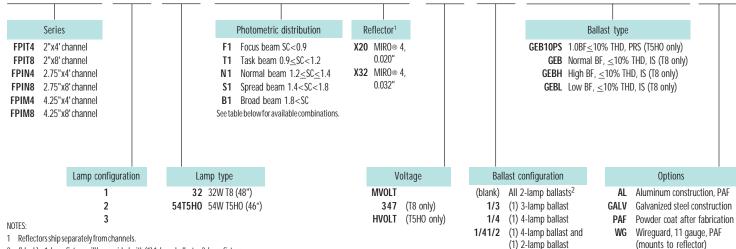


Specular Reflector



Ordering Information

Example: FPIM4 2 54T5HO F1X32 MVOLT GEB10PS WG



2 (blank) a 1-lamp fixture will be provided with (1) 1-lamp ballast; a 3-lamp fixture will be provided with (1) 2-lamp ballast and (1) 1-lamp ballast.

Lamp/Refl	Lamp/Reflector Availability and Dimensions (ONLY the combinations listed are available)							
Fixture	Channel	Lamp	Lamp	Photometric	Reflector			
Series	Width	Configuration	type	Distribution	Width	Length		
FPIT4, FPIT8	2"	1	54T5H0	F1, N1	6.75"	48",96"		
FPIN4, FPIN8	2.75"	1	54T5H0	F1	6.9"	48",96"		
FPIN4, FPIN8	2.75"	1	32	F1	10"	48",96"		
FPIN4, FPIN8	2.75"	1	32	T1, S1	6.75"	48",96"		
FPIN4, FPIN8	2.75"	1	54T5H0	N1	5.8"	48",96"		
FPIN4, FPIN8	2.75"	1	32	N1	7.25"	48",96"		
FPIN4, FPIN8	2.75"	2	54T5H0	T1	7.1"	48",96"		
FPIN4, FPIN8	2.75"	2	54T5H0	N1	6.2"	48",96"		
FPIM4, FPIM8	4.25"	1	32	B1, N1	10.25"	48",96"		

Lamp/I	Lamp/Reflector Availability and Dimensions (ONLY the combinations listed are available)							
Fixture	Channel	Lamp	Lamp	Photometric	Reflector			
Series	Width	Configuration	type	Distribution	Width	Length		
FPIM4, FPIM8	4.25"	2	54T5H0	F1	7.6"	48",96"		
FPIM4, FPIM8	4.25"	2	32	T1	8.62"	48", 96"		
FPIM4, FPIM8	4.25"	2	54T5H0	N1	7.3"	48", 96"		
FPIM4, FPIM8	4.25"	2, 3	32	N1	8.5"	48", 96"		
FPIM4, FPIM8	4.25"	2	32	S1	7.5"	48", 96"		
FPIM4, FPIM8	4.25"	2	32	B1	12.62"	48", 96"		
FPIM4, FPIM8	4.25"	3	32	T1	8.62"	48", 96"		
FPIM4, FPIM8	4.25"	3	54T5H0	N1	8"	48", 96"		
FPIM4, FPIM8	4.25"	3	54T5H0	S1	7.15"	48",96"		
_	_							

2/3 (2) 3-lamp ballast





FIA

Specular Reflector



Intended Use

FIA Series luminaires are the perfect replacement for HID recessed, surface and wall mounted fixtures. Typical applications include high ceiling lobbies and other areas with excessive vibration or difficult maintenance access. These luminaires are designed for large area lighting applications (5,000-1,000,000+ sq. ft.) and may be mounted at heights of 18' to 50'.

Features

Channel, ends, socket brackets and ballast housings are manufactured from minimum 22-gauge cold-rolled steel, riveted and screwed assembly. Tool-less ballast and wiring access is provided.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

The FIA recessed luminaire is designed for mounting to NEMA G grid ceilings. Drywall grid adapter frames are available.

Lamps are available various CRI ratings and temperature colors.

Listings

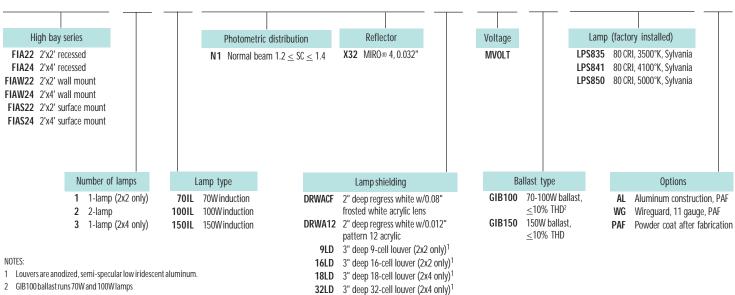
UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

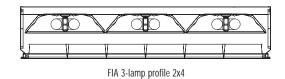
May be modified to meet any custom application. Contact your SpecLight representative for assistance.

Ordering Information

Example: FIA22 2 150IL N1X32 9LD MVOLT GIB150 LPS841



FIA 2-lamp profile 2x2



		Availability	and Dimensions 2'X2' FIA	, FIAW and FIA	S	
Nominal size	Series	Number of lamps	Lamp type	Width	Height in.	Length
2'x2'	FIA22 FIAW22 FIAS22	1,2	70W, 100W and 150W Induction	24"	10"	48"

Availability and Dimensions 2'X4' FIA, FIAW and FIAS							
Nominal size	Series	Number of lamps	Lamp type	Width	Height in.	Length	
2'x4'	FIA24 FIAW24 FIAS24	2, 3	70W, 100W and 150W Induction	24"	10"	48"	



Unibody industrial for demanding applications features one-piece housing with riveted end caps. Surface-mounted or suspended. Provides large-area lighting in a variety of photometric distributions for retail, warehouse, industrial, commercial and manufacturing areas.

Features

Channel, ends and socket brackets are minimum 22-gauge cold-rolled steel, riveted and screwed. Tool-less ballast and wiring access.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available. Galvanized steel finish also available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where

applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

May be suspended by chain or cable or surfacemounted.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Listings

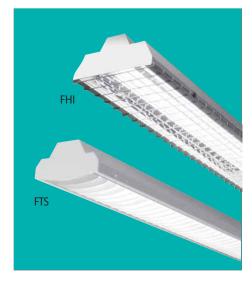
UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

FTS, FHI

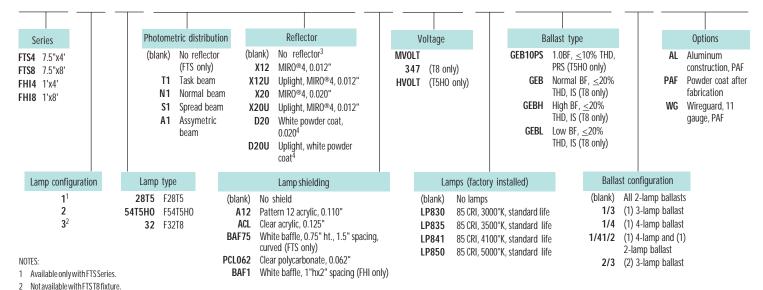
Specular Reflector



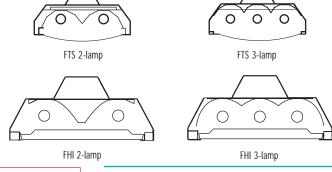
Ordering Information

3 Available only with FTST5HO fixture.4 Available only with a normal beam distribution.

Example: FTS8 2 54T5HO T1X20 BAF75 MVOLT GEB10PS



		Ava	ailability and Dimer	nsions		
Nominal size	Series	Number of lamps	Lamp type	Width	Height in.	Length
7.5"x4'	FTS4	1,2,3	28T5, 54T5H0	7.5"	4"	48"
7.5"x8'	FTS8	1,2	32	7.5"	4"	96"
1'x4'	FHI4	2,3	28T5, 54T5H0	11"	6.5"	48"
1'x8'	FHI8	2,3	32	11"	6.5"	96"





Specular Reflector



Intended Use

The FPG Series is designed for parking structures when mounted parallel with the drive lanes. The luminaire produces a very broad distribution across the drive lane while minimizing glare in the driver's eyes.

Features

The backplate is manufactured from minimum 20-gauge cold-rolled steel, riveted and screwed assembly for rigidity. Optional all aluminum construction is available - Specify AL and PAF. Optional heavy-gauge steel backplate is available – specify 18GA or 16GA.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finished in high-gloss baked white enamel, pretreated with a 5-stage iron phosphate system. Optional premium polyester powder coat is available.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

The luminaire is designed for surface mounting. Surface conduit entry is available – specify SCE.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

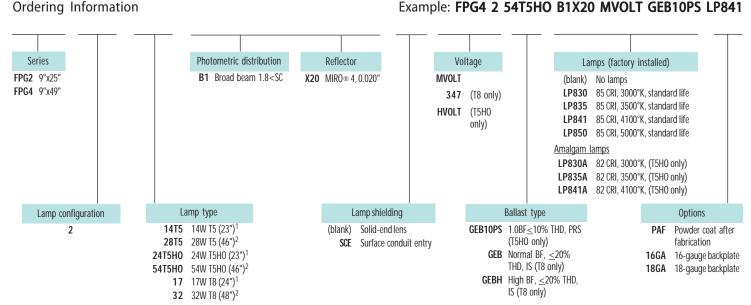
Listings

UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

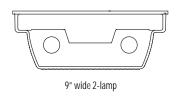
May be modified to meet any custom application. Contact your SpecLight representative for assistance.

Ordering Information



NOTES:

- 1 Available only with 2' fixtures.
- 2 Available only with 4' fixture.



		А	vailability and Dimer	nsions		
Nominal size	Series	Number of lamps	Lamp type	Width	Height	Length
9"x25"	FPG2	2	17, 14T5, 24T5H0	Q"	3"	25"
9"x49"	FPG4	2	32, 28T5, 54T5H0	,	3	49"



SpecLight's architecturally attractive FRA, FRC and FRS Series luminaires provide comfortable, indirect, low-glare lighting for executive offices, conference rooms, meeting rooms and entryways. These fixtures provide a simple, yet elegant recessed source of illumination, and create a diffused skylight appearance.

Features

The fixture body is fully assembled from minimum 22-gauge cold-rolled steel for maximum rigidity.

- FRA features an angled perimeter frame.
- FRC features perforated curved side frame.
- FRS features a stepped perimeter frame.

Reflector is precision-formed, high performance, 95% total reflectance, segmented optics utilizing Alanod MIRO® 4 specular aluminum. Warranted for 25 years.

Finish is premium polyester powder coat utilizing a 7-stage pretreatment process of iron phos-

phate, a non-chromium sealer and a de-ionized water rinse to provide superior adhesion and corrosion resistance.

Ballasts are electronic, energy-saving, thermally protected, UL Listed, Class P, CSA Certified where applicable, HPF, non-PCB, Sound Rating A. Ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

Mounts in a grid ceiling. Drywall grid adapter accessory is available.

Lamps available in various CRI ratings, temperature colors and rated life. Secured with rotary locking lamp sockets to minimize disconnection from vibration or incidental contact.

Listings

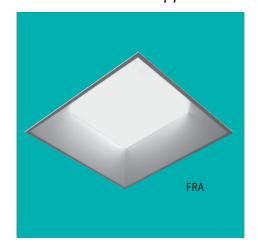
UL Listed wire, rated for required temperatures, used throughout. Listed and conforms to UL 1598. Suitable for damp locations.

Custom Solutions

May be modified to meet any custom application. Contact your SpecLight representative for assistance.

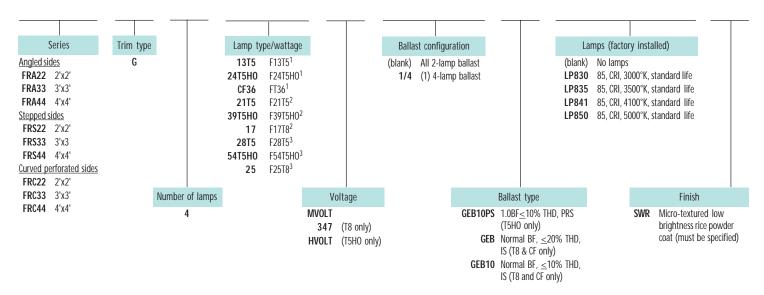
FRA, FRC, FRS

Angled, Perforated or Stepped Sides



Ordering Information

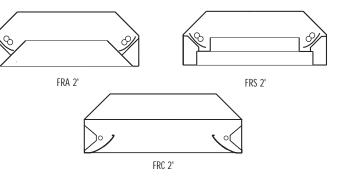
Example: FRC22 G 4 24T5HO MVOLT GEB10PS LP841 SWR



NOTES:

- 1 Available with 2'x2' fixture only.
- 2 Available with 3'x3' fixture only.
- 3 Available with 4'x4' fixture only.

		ı	Availability and Dimensi	ons		
Nomi	nal	Number	Lamp			
size	Series	of lamps	type	Width	Height	Length
2x2	FRA22, FRS22, FRC22	4	13T5, 24T5HO, CF36	24"		24"
3x3	FRA33, FRS33, FRC33	4	21T5, 39T5H0, 17	36"	9"	36"
4x4	FRA44, FRS44, FRC44	4	28T5, 54T5H0, 25	48"		48"





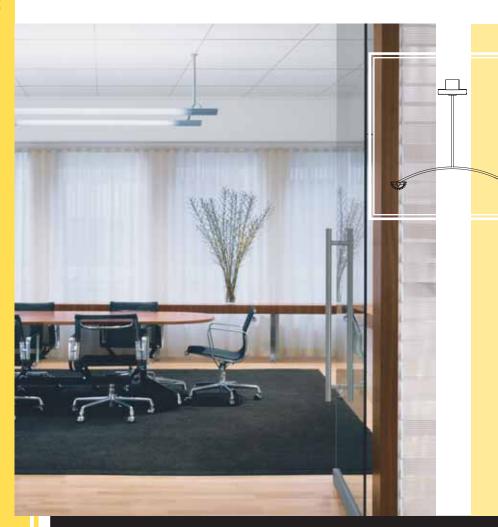
PEERLESS°

Architectural Lighting

For generations the name

Peerless® has been

synonymous with



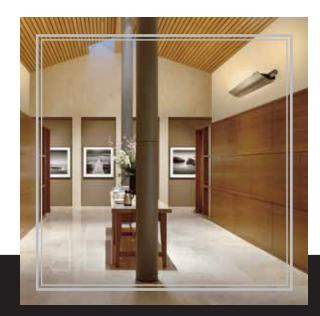
contemporary design and an extraordinary quality of illumination. Through our continuing research into how light influences a space and the people who inhabit it, Peerless products are engineered for superior results. Technologically advanced luminaires control and emit a soft, natural light, offering a refined balance of visual comfort, dimensionality and drama within an architectural setting.

PEERLESS°





Featured on this page
(clockwise from upper left)
are Lightfoil® 3, Lightedge®
Curved Indirect/Open,
Lightline™ Recessed
Symmetric and Lightfoil® 2
luminaires.
For more information,
visit our website at
www.peerless-lighting.com.





PSG9 www.peerless-lighting.com PEERLESS°

PEERLES S°

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www.peerless-lighting.com

PEERLESS

Lightfoil®2

Construction

Housing & cylinder AA 6063 T6 extruded aluminum. Foil is Revnobond® (Alcoa) composite. consisting of two sheets of corrosion-resistant aluminum

Intended Use

The form is minimal, sculptured, tastefully refined. Cylinder, block and foil shapes merge and blend discreetly with surrounding architecture, offering a singular visual element that complements and accommodates. The optical design is a remarkable accomplishment. No other system delivers light so abundantly, so smoothly, so efficiently for contemporary medium-scale environments. This is architectural surface lighting in its most advanced state.

laminated to an extruded thermoplastic core material.

Reflectors

Die-formed reflectors combine semi-specular aluminum and baked white enamel.

Finish

Housing and cylinders powder coated. Foil available in bronze, silver or white finishes.

Flectrical

Specify 120 volt, 277 volt or 347

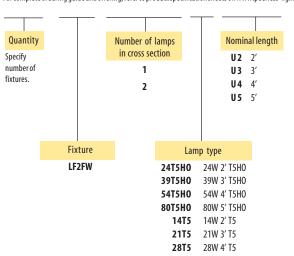
volt. For special circuiting, consult factory.

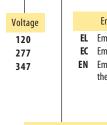
Listings

UL Listed to US and Canadian safety standards (dry location only).

Ordering Information

 $For complete ordering \ guide \ and \ of fering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$





Ballast type

GEB10 10% THD ballast

ADEZ Advance Mark 10²

ECO10 Lutron ECO10

OSDIM Osram O-10V²

DMHL Lutron Hi-Lume

ADZT Advance Mark 72

Dimming ballasts¹

Emergency options³ Emergency battery pack1 Emergency circuit night-light Emergency battery pack in the night-light circuit¹

Switching **SCT** Single circuit

L/LP No lamp LP830 3000°K 80+ CRI 3500°K 80+ CRI LP835 (standard) LP841 4100°K 80+ CRI

Lamp color

Example: 4 LF2FW 2 24T5H0 U2 120 GEB10 SCT L/LP C224

DCT Dual circuit

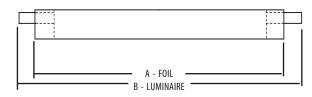
GLR Fast blow fuse **GMF** Slow blow fuse FEP Flat endplate (no cylinder)

Options

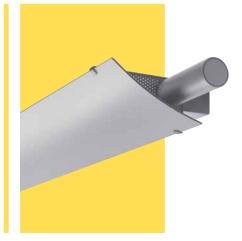
Foil finish C222 Bronze C223 Silver C224 White

NOTES:

- 1 54T5HOonly.
- 2 Not available in 2', 3' or 5' T5HO.
- 3 EL, EN and EC only available with SCT.













	Α	В
LF2FW 24W and LF3FW 24W	35"	43"
LF2FW 39W and LF3FW 39W	45"	53"
LF2FW 54W and LF3FW 54W	57"	65"
LF2FW 80W and LF3FW 80W	69"	76"

LF2FW - 1 T5/T5H0 lamp

LF2FW -2 T5/T5H0 lamps

The form is minimal, sculptured, tastefully refined. Cylinder, block and foil shapes merge and blend discreetly with surrounding architecture, offering a singular visual element that complements and accommodates. The optical design is a remarkable accomplishment. No other system delivers light so abundantly, so smoothly, so efficiently for contemporary large-scale environments. This is architectural surface lighting in its most advanced state.

Construction

Housing & cylinder AA 6063 T6 extruded aluminum. Foil is Revnobond® (Alcoa) composite, consisting of two sheets of corrosion-resistant aluminum laminated to an extruded

thermoplastic core material.

Reflectors

Die-formed reflectors combine semi-specular aluminum and baked white enamel.

Finish

Housing and cylinders powder coated. Foil available in bronze, silver or white finishes.

Flectrical

Specify 120 volt, 277 volt or 347

Lightfoil®3

volt. For special circuiting, consult factory.

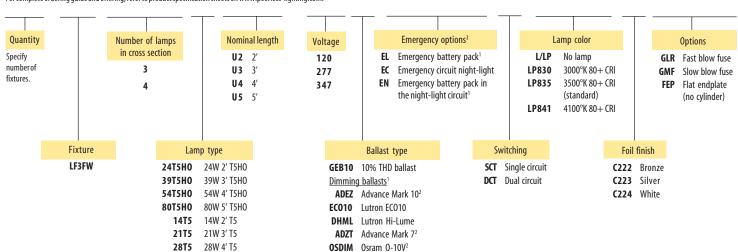
Listings

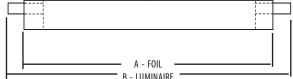
UL Listed to US and Canadian safety standards (dry location only).

Example: 4 LF3FW 3 24T5H0 U2 120 GEB10 SCT L/LP C224

Ordering Information

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

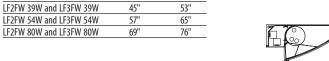


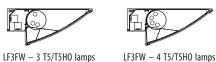


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	A - FOIL	—ı	
	B - LUMINAIRE		—.

LUMINAIR	E CROSS	SECTIONS





NOTES: 1 54T5HOonly.

2 Notavailable in 2', 3' or 5' T5HO. 3 EL, EN and EC only available with SCT.

LF2FW 24W and LF3FW 24W

21/2" Aperture

Lightline™ Wall Wash

Intended Use

The Lightline™ Wall Wash Series brings HOT-5® technology to a recessed environment. Built with a precise specular, asymmetric, aluminum reflector, the Lightline™ Wall Wash luminaire tames the powerful T5HO lamp and the result is a wall bathed with soft, comfortable light.

Construction

Housing is formed from painted coldrolled steel. Five-stage ironphosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished

with high-gloss baked enamel.

Reflectors

Die-formed reflector with baked white enamel finish. Nominal reflectance 90%. Black metal diffuser with round holes.

Electrical

Specify 120 volt, 277 volt or 347 volt. For special circuiting, consult factory.

Fixture Size

Nominal 21/2" aperture. 2' and 4'

lengths available.

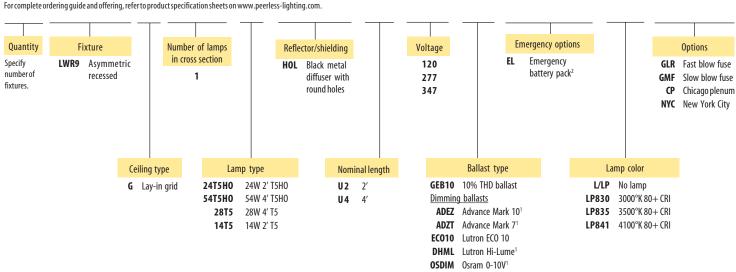
Listings

Example: 4 LWR9 G 1 54T5H0 HOL U4 120 GEB10 L/LP

UL Listed to US and Canadian safety standards.

Ordering Information

 $For complete ordering \ guide \ and \ of fering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$



NOTES:

- 1 Only available with 54T5H0.
- 2 Only available with 28T5 and 54T5HO.

Accessories

(Order separately) DHSGS2 Gyp-board flange kit 2'

DHSGS4 Gyp-board flange kit 4'

LUMINAIRE CROSS SECTIONS



LWR9 - 1 T5/T5H0 lamp

Seamlessly sleek, delicate and discrete. Delight in an aesthetically refined, recessed luminaire. HOT-5® technology harmonized with the luminaire's thread-like aperture delivers unobtrusive, balanced downlight. The Lightline™ Symmetric Recessed luminaire is part of the Lightline family of products designed around ultra-slim T5HO lamps. The Lightline™ Series brings a discrete, narrow aesthetic to a variety of architecture.

Construction

Housing is formed from one-piece painted cold-rolled steel. Four-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts are finished with low-gloss baked enamel.

Reflectors

Die-formed reflector with baked white enamel finish. Nominal reflectance 90%.

Shielding

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

Ceiling type

G Lay-in grid

Arc-shaped, parabolic low iridescent semi-specular aluminum louver.

Electrical

Specify 120 volt, 277 volt or 347² volt. For special circuiting, consult factory.

Fixture Size

Nominal 2½" aperture. 2' and 4' lengths available.

Lightline[™] Symmetric Recessed

Listina

UL Listed to US and Canadian safety standards.

Ordering Information Example: 4 LSR9 G 1 54T5H0 LDL U4 120 GEB10 L/LP

Number of lamps Voltage **Options** Quantity **Emergency options** Fixture Reflector/shielding in cross section **EL** Emergency battery GLR Fast blow fuse 120 Specify LSR9 Symmetric LDL Low iridescent number of recessed 277 pack² **GMF** Slow blow fuse louver fixtures **CP** Chicago plenum 347 NYC New York City

Nominal length

U4 4'

Lamp type
24T5H0 24W 2' T5H0
54T5H0 54W 4' T5H0

14T5 14W 2' T5 **28T5** 28W 4' T5

Ballast type

GEB10 10% THD ballast

Dimming ballasts¹

ADEZ Advance Mark 10
ADZT Advance Mark 7
ECO10 Lutron ECO 10
DMHL Lutron Hi-Lume (DIM1)

OSDIM Osram O-10V

Lamp color

L/LP No lamp

LP830 3000°K 80+ CRI

LP835 3500°K 80+ CRI

LP841 4100°K 80+ CRI

NOTES:

- 1 Only available with 54T5HO.
- 2 Only available with 28T5 and 54T5H0.

Accessories (Order separately)

DHSGS2 Gyp-board flange kit 2' **DHSGS4** Gyp-board flange kit 4'

LUMINAIRE CROSS SECTIONS



LSR9 – 1 T5/T5H0 lamp



2½" Aperture

Lightline™ Asymmetric

Available Summer 2006

Construction

Housing is formed from one-piece painted cold-rolled steel. Fourstage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts are finished with low-gloss baked enamel.

Intended Use

Seamlessly sleek, delicate and discrete. Delight in an aesthetically refined, recessed asymmetric luminaire. HOT-5® technology harmonized with Lightline's thread-like aperture delivers unobtrusive, balanced asymmetric light. The Lightline™ Asymmetric Recessed Series is part of the Lightline™ family of products designed around ultra-slim T5HO lamps. Lightline luminaires bring a discrete, narrow aesthetic to a variety of architecture.

Reflectors

Die-formed reflector with baked white enamel finish. Nominal reflectance 90%. Shielding

Arc-shaped, parabolic low iridescent semi-specular aluminum louver.

Electrical

Specify 120 volt, 277 volt or 3472 volt. For special circuiting, consult

Fixture Size

OSDIM Osram 0-10V DMHL Lutron Hi-Lume (DIM1)

Nominal 21/2" aperture. 2' and 4' lengths available.

Listings

No lamp

3000°K 80+ CRI

3500°K 80+ CRI

4100°K 80+ CRI

Accessories (Order separately)

DHSGS2 Gyp-board flange kit 2'

DHSGS4 Gyp-board flange kit 4'

Example: 4 LAR9 G 1 54T5H0 LDL U4 120 GEB10 L/LP

UL Listed to US and Canadian safety standards.

Options

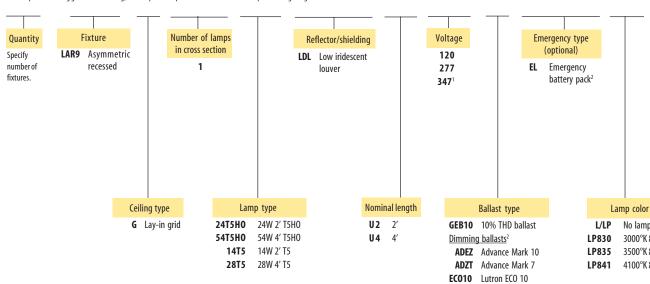
GLR Fast blow fuse

GMF Slow blow fuse

Chicago plenum

Ordering Information

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



1 Only available with 54T5HO.

NEW

2 Only available with 28T5 and 54T5HO.

LUMINAIRE CROSS SECTIONS



LAR9 - 1 T5/T5H0 lamp

PEERLESS

www.peerless-lighting.com

The Lightline[™] Series satisfies all requirements for high-quality indirect light distribution, continuous lamping, low-brightness downlight components and powerful lumen packages. At the same time, it offers minimal fixture widths and profiles, layout and configuration flexibility, and elegant mechanical detailing. Whether straight runs or rectangles, nested patterns or ladder configurations, the Lightline[™] system allows an unexpected level of design freedom.

Lightline[™] Suspended

Finish

Standard colors are satin anodized aluminum, standard white (low gloss), white white (gloss) and white white (low gloss).

Contruction

Housing AA 6063 T6 extruded aluminum forming a 2-3/4"x 2-1/2"

rectangular channel. Die-cast end plate mechanically attached with no exposed fasteners.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (86% nominal reflectance).

Fixture Length

Specify nominal fixture/row length in feet. For long runs, advise maximum extrusion length if 12' is not acceptable. 4', 8' or 12' nominal sections used to create runs.

Electrical

Specify 120 volt, 277 volt or 347

volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory.

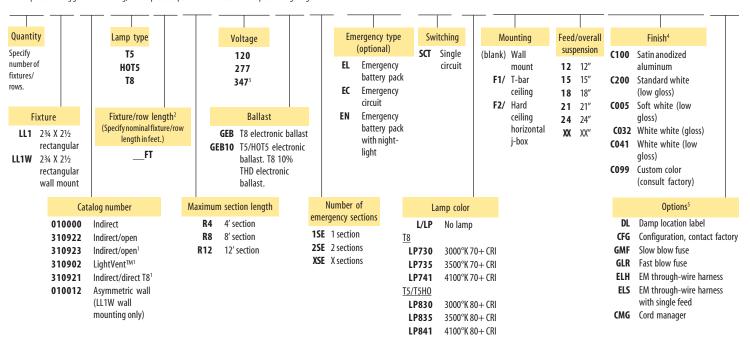
Listings

UL Listed to US and Canandian safety standards.

Ordering Information

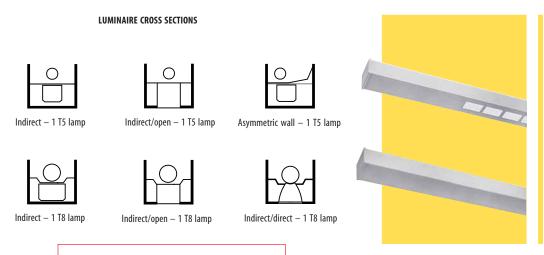
Example: 4 LL1 010000 T8 24FT R12 120 GEB SCT LP730 F1/24 C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



NOTES:

- 1 T5/T5HO special configurations only. Contactfactory.
- 2 For long runs, advise maximum extrusion length if 12' is not acceptable. 4', 8' or 12' nominal sections used to create runs.
- 3 Only available in T8 and HOT5.
- 4 To match custom color chip, specify C099. If unknown, specify XXX.
- 5 For available options on special configurations, contact factory.



www.peerless-lighting.com

PEERLESS

Recessed/Suspended

Parallels™

Construction

Extruded translucent white acrylic diffuser with opaque painted ends. AA 6063 T6 extruded aluminum fixed length yokes. Formed and painted, cold-rolled steel recessed housing.

Intended Use

A pure expression of light. No cables, no wiring, no housing, no integral ballasts. Stripped of such conventional trappings, the latest design innovation from Peerless offers a striking departure from the monotonous mainstream.

The lamps, powered through elegant anodized aluminum stems, are wrapped in parallel luminous elements providing a slim and sophisticated form harmonious with contemporary environments.

Reflectors

Die-formed specular reflectors.

Electrical

Specify 120 volt, 277 volt or 347 volt. Prewired with prescribed circuits and Molex quick connectors. Available "S" option for step

switching. Step switching option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Fixture Length

Lengths available in 4' and 5'.

Fixtures mount to 4' grid. Overall, fixture lengths are 4'-9" and 5'-9" respectively.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information Example: 1 PLM9 G 2 54T5H0 U4 277 GEB80S SCT LP830 $For complete ordering \ guide \ and \ of fering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$ Number of lamps Quantity Fixture Voltage **Emergency options** Switching Nominal length **Options** in cross section 120 **EL** Emergency Specify PLM9 Recessed/ **U4** 4' SCT CP Chicago plenum pendant 2 number of 277 battery pack **U5** 5' fixtures. mount 3471,2 Ballast type Lamp color Ceiling type Lamp type 54W 4' T5H0 Lay-in grid (5/16" 54T5H0 <u>T5H0</u> T5/T5H0 LP830 3000°K 80+ CRI 9/16", screw slot) **GEB10** < 10% THD ballast 28T5 28W 4' T5 80T5H0 80W 5' T5H0¹ **GEB80** < 10% THD, 80% BF LP835 3500°K 80+ CRI LP841 4100°K 80+ CRI **GEB80S** < 10% THD, 80% BF³ GEB10 <10% THD ballast **GEB115** < 10% THD, 115% BF **GEB115S** < 10% THD, 115% BF³ **Dimming ballasts** T5H0 ADEZ Advance Mark 10² **ADZT** Advance Mark 7² NOTES: ECO10 Lutron ECO 10² 1 GEB10 ballast only. DMHL Lutron Hi Lume² 2 54T5H00nly. OSDIM OSDIM 0 - 10V² 3 S = step dimming. ECO10 Lutron ECO10 **LUMINAIRE CROSS SECTIONS** NEW

PLM9 - 2 T5/T5H0 lamps

www.peerless-lighting.com

Lightedge® Angular luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Lightedge[®] Angular

Finish

Satin anodized standard; custom colors available.

Construction

Housing and endcap AA 6063 T6 extruded aluminum.

Reflectors

Die-formed reflectors with baked white enamel finish (nominal reflectance 90%). T5HO/T5 with specular aluminum.

Electrical

Specify 120 volt, 277 volt or 347

volt. For special circuiting, consult factory.

Fixture Length

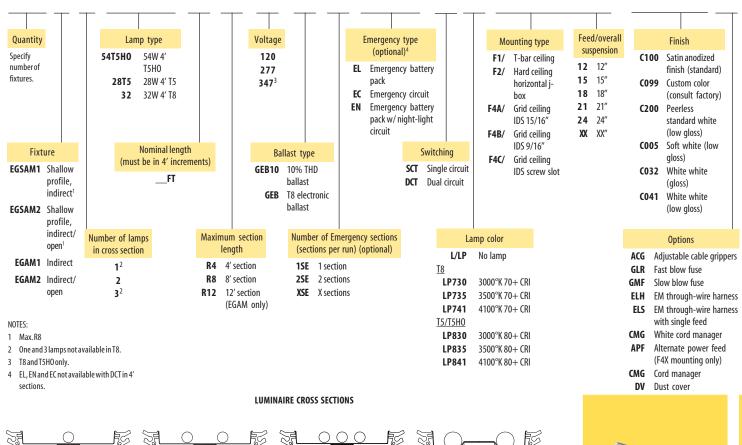
4' and 8' lengths in a single section for suspension spacing of 4' and 8.' For total fixture length, add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures. EGAM available in 12'.

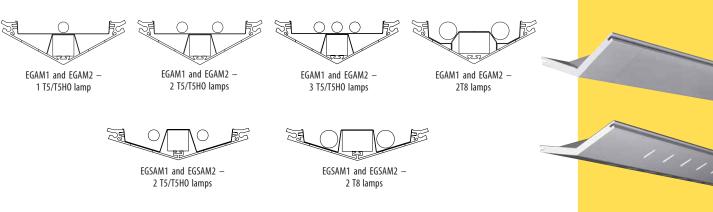
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 EGSAM1 2 54T5H0 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100





www.peerless-lighting.com

PEERLESS

Lightedge® **Angular Wall**

Intended Use

Lightedge® Angular Wall luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming a 71/2" x 21/8" angular channel.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 90%). Prismatic acrylic kicker lens on 1 lamp product.

Finish

Satin anodized standard: custom colors available

Electrical

Specify 120 volt, 277 volt or 347

volt. For special circuiting, consult

Fixture Length

4', 8' and 12' lengths in a single section for suspension spacing of 4', 8' and 12.' For total fixture length, add 4" for each end-cap. Using internal joiners, 4', 8' and 12'

sections can be joined to form longer-length fixtures.

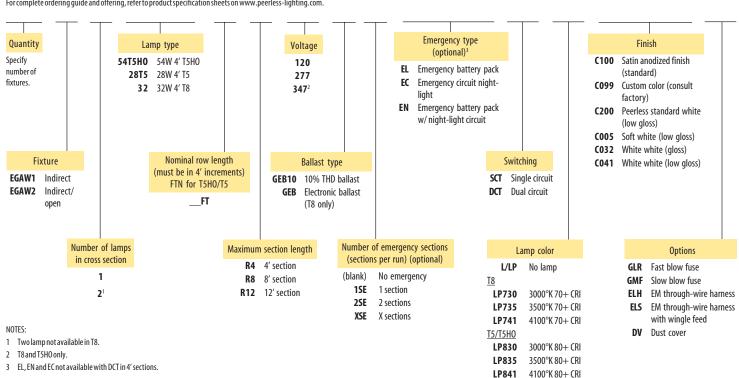
Listings

UL Listed to US and Canadian safety standards.

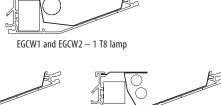
Ordering Information

Example: 4 EGAW1 1 54T5H0 40FTN R12 120 GEB10 2SE EL SCT LP835 C100

 $For complete ordering \ guide \ and \ of fering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$



LUMINAIRE CROSS SECTIONS



EGCW1 - 1 T5/T5H0 lamp

EGCW1 and EGCW2 - 2 T5/T5H0 lamps

Lightedge® Curved luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Lightedge® Curved

Construction

Housing and endcap AA 6063 T6 extruded aluminum.

Reflectors

Die-formed reflectors with baked white enamel finish (nominal reflectance 90%). T5HO/T5 with

specular aluminum.

Finish

Satin anodized standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347

volt. For special circuiting, consult factory.

Fixture Length

4' and 8' lengths in a single section for exact suspension spacing of 4' and 8.' For total fixture length add 4" for each end-cap. Using internal joiners,

4' and 8' sections can be joined to form longer-length fixtures. EGCM available 12'.

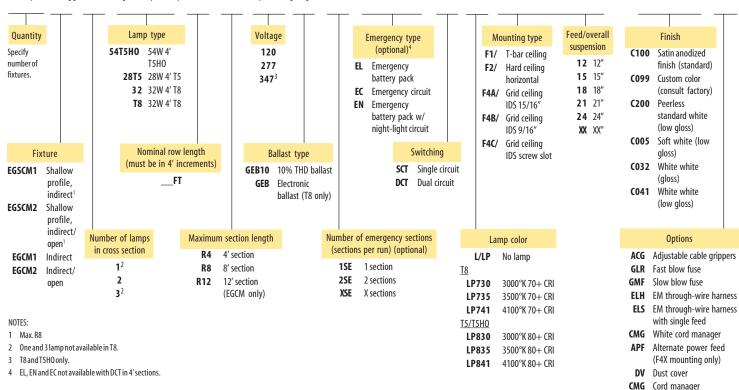
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 EGSCM1 2 54T5H0 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100

 $For complete ordering \ guide \ and \ offering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com$



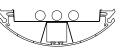
LUMINAIRE CROSS SECTIONS



EGCM1 and EGCM2 - 1 T5/T5H0 lamp



EGCM1 and EGCM2 - 2 T5/T5H0 lamps



EGCM1 and EGCM2 - 3 T5/T5H0 lamps



EGCM1 and EGCM2 - 2 T8 lamps

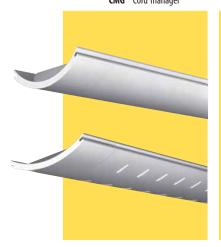


EGSCM1 and EGSCM2 - 2 T5/T5H0 lamps





EGSCM1 and EGSCM2 - 2 T8 lamps



Lightedge® **Curved Wall**

Housing and endcaps AA 6063 T6 extruded aluminum forming a 71/2" x 21/4" curvilinear channel.

Construction

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal

Intended Use

Lightedge® Curved luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

reflectance 90%). Prismatic acrylic kicker lens on 1 lamp product.

Satin anodized standard; custom colors available.

Electrical

Voltage

120

277

3472

Specify 120 volt, 277 volt or 347

volt. For special circuiting, consult

Fixture Length

4', 8' and 12' lengths in a single section for suspension spacing of 4', 8' and 12.' For total fixture length, add 4" for each end-cap. Using internal joiners, 4', 8' and 12'

sections can be joined to form longer-length fixtures.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 EGCW1 1 54T5H0 40FTN R12 120 GEB10 2SE EL SCT LP835 C100

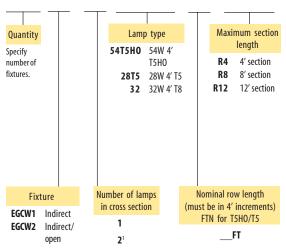
Switching

circuit

DCT Dual circuit

SCT Single

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



Ballast type GEB10 10% THD ballast Electronic ballast

(T8 only)

Number of emergency sections (sections per run) (optional)

(blank) No emergency 1SE 1 section 2SE 2 sections XSE X sections

Emergency type

(optional)3 **EL** Emergency battery pack

Emergency circuit Emergency battery pack w/

night-light circuit

Lamp color L/LP No lamp

<u>T8</u> **LP730** 3000K°70+CRI **LP735** 3500K° 70+ CRI

4100K° 70+ CRI LP741 T5/T5H0 LP830 3000°K 80+ CRI

LP835 3500°K 80+ CRI LP841 4100°K 80+ CRI

Finish

C100 Satin anodized finish (standard) Custom color (consult factory)

Peerless standard white C200 (low gloss)

COO5 Soft white (low gloss) CO32 White white (gloss)

C041 White white (low gloss)

Options

GLR Fast blow guse GMF Slow blow fuse

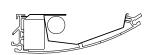
ELH EM through-wire harness EM through-wire harness with single feed

Dust cover

NOTES:

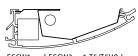
- 1 Two lamp not available in T8.
- 2 T8 and T5HO only.
- 3 EL, EN and EC not available with DCT in 4' sections.

LUMINAIRE CROSS SECTIONS



EGCW1 and EGCW2 - 1 T8 lamp

www.peerless-lighting.com



EGCW1 and EGCW2 - 1 T5/T5H0 lamp



EGCW1 and EGCW2 - 2 T5/T5H0 lamps



Lightedge® Angular ID luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Lightedge® Angular ID

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming a 8" x 1¾" angular channel.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal

reflectance 90%).

Finish

Satin anodized standard; custom colors available.

Shielding

Parabolic semi-specular aluminum

Electrical

Specify 120 volt, 277 volt or 347 volt. For special circuiting, consult

Fixture Length

 4^\prime and 8^\prime lengths in a single section for suspension spacing of 4' and 8'.

For total fixture length, add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

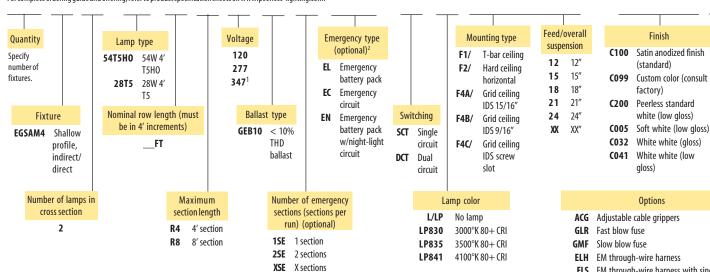
Listings

UL Listed to US and Candadian safety standards.

Ordering Information

Example: 4 EGSAM4 2 54T5H0 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com



NOTES:

- 1 T5HO only
- 2 EL, EN and EC not available with DCT in 4' sections.

ELH EM through-wire harness

ELS EM through-wire harness with single feed CMG White cord manager

APF Alternate power feed (F4X mounting only)

DV Dust cover



EGSAM4 - 2 T5/T5H0 lamps



Lightedge® **Curved ID**

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming an 8" x 1½" curvilinear channel.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 90%).

4' section

8' section

R4

R8

Intended Use

Lightedge® Curved I/D luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Shieldina

Parabolic semi-specular aluminum baffles.

Finish

Satin anodized standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347

volt. For special circuiting, consult factory.

Fixture Length

4' and 8' lengths in a single section for exact suspension spacing of 4' and 8.' For total fixture length add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

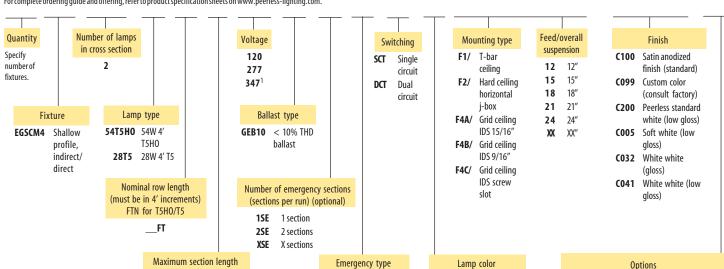
Listinas

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 EGSCM4 2 54T5H0 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



NOTES:

- 1 T5HO only.
- 2 EL, EN and EC not available with DCT in 4' sections

(optional)²

- **EL** Emergency battery
- **Emergency battery** pack w/ night-light

. circuit

Emergency circuit

T5/T5H0

L/LP No lamp 3000°K 80+ CRI LP830 LP835 3500°K 80+ CRI LP841 4100°K 80+ CRI

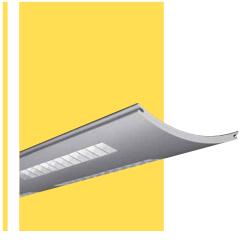
Options

- ACG Adjustable cable grippers
- GLR Fast blow fuse
- Slow blow fuse
- **ELH** EM through-wire harness
- **ELS** EM through-wire harness with single feed
- White cord manager
- APF Alternate power feed (F4X mounting only)
- DV Dust cover
- CMG Cord manager

LUMINAIRE CROSS SECTIONS



EGSCM4 - 2 T5/T5H0 lamps



144

Lightedge® wall luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a hint of luminous color, they appear to float in space, emitting a soft indirect light across the ceiling and into the environment below. The look is leading edge and completely unique.

Lightedge[®] Curved & Angular Wall ID

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming a $7^{1/2}$ ″ x $2^{1/8}$ ″ angular channel.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal

reflectance 90%). Prismatic acrylic kicker lens on 1 lamp product.

Shielding

Parabolic semi-specular aluminum baffles with opal diffuser.

Finish

Satin anodized standard; custom colors available.

Electrica

Specify 120 volt, 277 volt, or 347 volt. For special circuiting, consult factory.

Fixture Length

4′, 8′ and 12′ lengths in a single section for suspension spacing of 4′, 8′ and 12′. For total fixture length, add 4″ for each end-cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

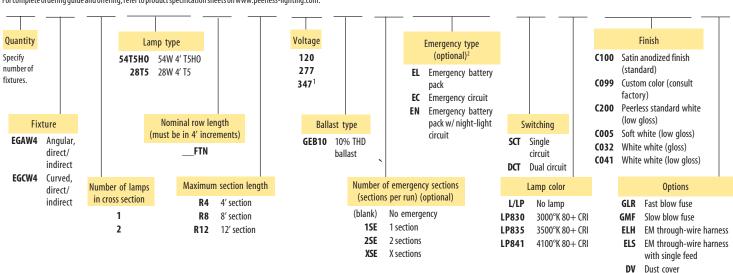
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

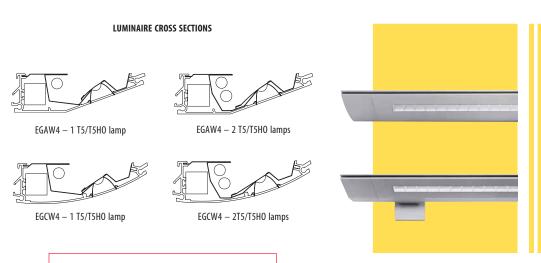
Example: 4 EGAW4 1 54T5H0 36FTN R12 120 GEB10 2SE EL SCT LP835 C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



NOTES:

- 1 T5HO only
- 2 EL, EN and EC not available with DCT in 4' sections.



www.peerless-lighting.com

PEERLESS

Lightedge® Rectangular

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming an 81/8" x 11/2" rectangular channel.

Die-formed reflectors with baked white enamel finish (nominal

Intended Use

Lightedge® Rectangular luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a lustrous anodized finish, they appear to float effortlessly in space. This highly engineered system also softens the direct light component in a way never before accomplished – offering unmatched refinement and visual comfort. Pendant and wall fixtures provide integrated design options and a wide range of configuration possibilities.

reflectance 90%) and specular aluminum side reflector.

Finish

Satin anodized standard; custom colors available

Electrical

Specify 120 volt, 277 volt or 347 volt. For special circuiting, consult

Fixture Length

4' and 8' lengths in a single section for suspension spacing of 4' and 8.'

For total fixture length, add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

Listings

UL Listed to US and Canadian safety standards.

Finish

finish

C200 Peerless

Satin anodized

(Standard)

Custom color

(consult factory)

standard white

(low gloss)

C100

12"

15"

18"

21"

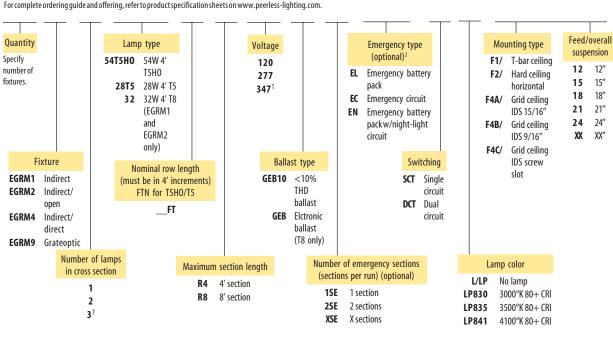
24"

XX"

Ordering Information

Example: 4 EGRM9 2 54T5H0 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

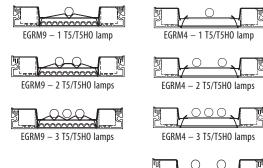


NOTES:

- 1 T8 and T5HO only.
- 2 EL, EN and EC not available with DCT in 4' sections.

LUMINAIRE CROSS SECTIONS







www.peerless-lighting.com

C032 White white (gloss) White white (low gloss)

C005 Soft white (low

aloss)

Options ACG Adjustable cable grippers

GLR Fast blow fuse

GMF Slow blow fuse

ELH EM through-wire harness

EM through-wire harness with single feed

CMG White cord manager

Alternate power feed (F4X mounting only)

Dust cover

Lightedge® Rectangular luminaires are beautifully proportioned and exquisitely detailed. Like elegant metal sculptures with precise reveals and a lustrous anodized finish, they appear to float effortlessly in space. This highly engineered system also softens the direct light component in a way never before accomplished - offering unmatched refinement and visual comfort. Pendant and wall fixtures provide integrated design options and offer a wide range of configuration possibilities.

Lightedge[®] Rectangular Wall

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming a 71/2" x 11/2" rectangular channel.

Reflectors

Die-formed reflectors combine hammertone specular aluminum with baked white enamel finish (nominal reflectance 90%).

Finish

Satin anodized standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347 volt. For special circuiting, consult

Fixture Length

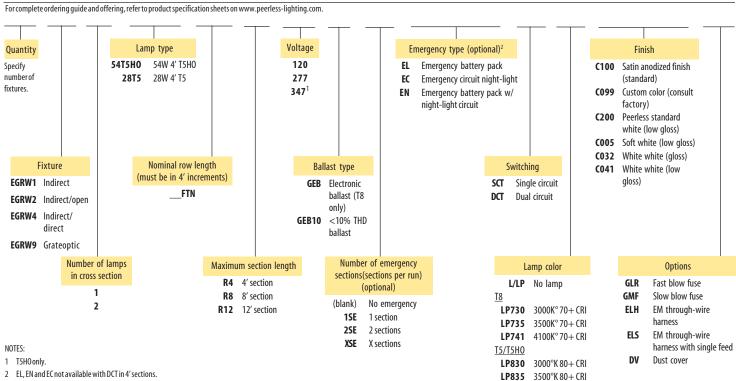
4', 8' and 12' lengths in a single section for suspension spacing of 4', 8' and 12.' For total fixture length, add 4" for each end-cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

UL Listed to US and Canadian safety standards.

Ordering Information

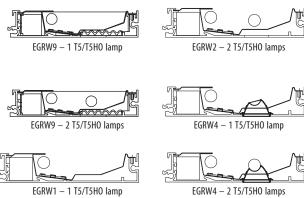
Example: 4 EGRW9 1 54T5H0 40FTN R12 120 GEB10 2SE EL SCT LP835 C100

LP841 4100°K 80+ CRI



2 FL FN and FC not available with DCT in 4' sections





LUMINAIRE CROSS SECTIONS



Mirage®

Intended Use

Consider the Mirage® luminaire — its multiple contours, lines and textures, its luminous baffle edges, its high-quality aluminum housing in a choice of finishes. This is modular, high-performance lighting in a most appealing, high-design package. Patented Softshine® optical systems with T5 high-output or T8 lamping options meet every possible requirement for light level and fixture spacing.

Construction

Housing AA 6063 T6 extruded aluminum forming a 97/8" x 23/4" rounded channel. Die-cast end plate mechanically attached with no exposed fasteners.

Reflectors

Die-formed hammertone specular aluminum.

Shieldina

Satin aluminum parabolic baffles with luminous edges and VisorOptic™ opal diffuser lamp shield.

Finish

Satin anodized or white paint standard: custom colors available Design detail: black perforated strip.

Electrical

Specify 120 volt or 277 volt. Prewired with prescribed circuits as specified. For special circuiting, consult factory. T5 high-output lamps are included. Wiring quick connectors for simple installation and joining.

Fixture Length

4'-0-1/4", 8' and 12' lengths in a single section for suspension spacing of 4', 8' and 12'. For total fixture length, add 4 1/4" for each end-cap.

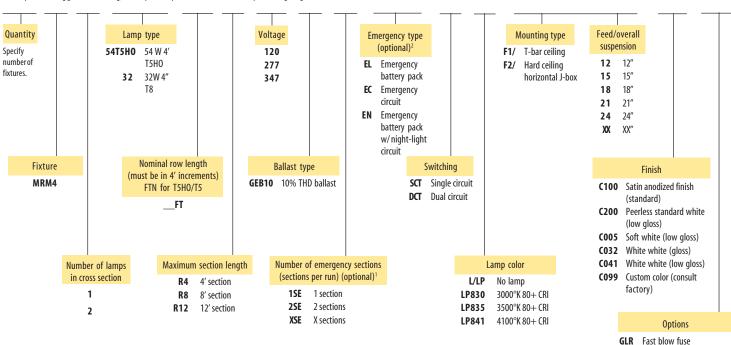
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 MRM4 1 54T5H0 40FT R12 120 GEB10 2SE EL SCT LP835 F1/24 C005

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



LUMINAIRE CROSS SECTIONS MRM4 - 1 T5H0 lamp MRM4 - 1 T8 lamp MRM4 – 2 T5H0 lamps MRM4 - 2 T8 lamps

1 Maximum # of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.

GMF Slow blow fuse ACG Adjustable cable grippers CMG Cord manager

2 EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed re-

The tasteful, angular shape of the Diminutive Lightfin® luminaire is trimmed to a mere 6" x 2" accommodating the new technology in a housing that virtually disappears within the space. Specify it as a totally indirect solution or with slot patterned bottoms to add a hint of brightness below. This versatile, elegantly-thin fixture serves beautifully in even the most critical visual environments, and is uniquely appropriate for low-ceiling applications.

Lightfin®

Construction

Housing AA 6063 T6 extruded aluminum forming a 61/2" x 21/8" angular channel. Die-cast end plate attaches with no exposed fasteners.

Reflectors

Die-formed reflectors combine hammertone specular aluminum andbaked white enamel (nominal reflectance 86%).

Finish

Satin anodized or white paint standard; custom colors available.

Flectrical

Specify 120 volt or 277 volt. Prewired with prescribed circuits. For special circuiting, consult factory. T5 high-output lamps are included.

Fixture Length

4', 8', and 12' lengths in a single section for suspension spacing of 4', 8', and 12'. For total fixture length add 4-1/2" for each end-cap. Using internal joiners, 4', 8', and 12' sections can be joined to form longer-length fixtures.

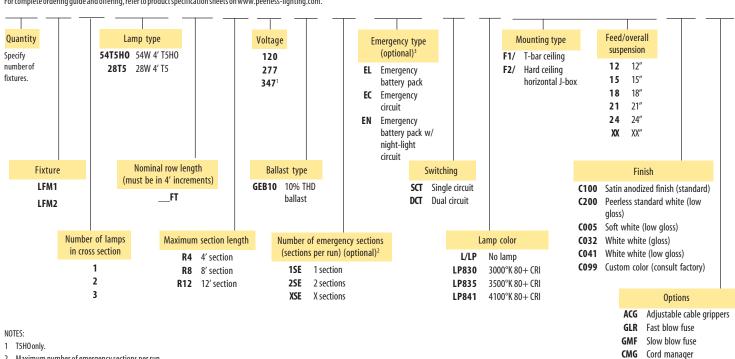
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

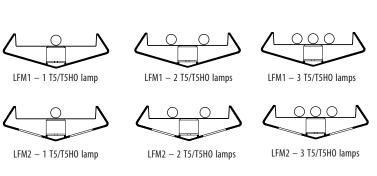
Example: 4 LFM1 1 54T5H0 40FT R12 120 GEB10 2SE EL SCT LP835 F1/24 C005

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



- 2 Maximum number of emergency sections per run should not exeed number of fixture sections, minus one. For additional sections, consult factory.
- 3 EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.

LUMINAIRE CROSS SECTIONS





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Lightfin[®] Wall

Intended Use

Lightfin® Wall Mounted fixtures extend the diminutive look throughout a facility, projecting soft, uniform light on the wall as well as above and across the ceiling in corridors, small offices and general use areas.

Finish

Standard colors are satin anodized aluminum, standard white (low gloss), white white (gloss) and white white (low gloss).

Construction

Housing AA 6063 T6 extruded aluminum up to 24' in one uninterrupted section forming a 7" x

 $2^{1}/_{16}$ " angular channel. Die-cast end plate mechanically attached with no exposed fasteners.

Reflectors

Die-formed, baked white reflectors (86% nominal reflectance), including micro-prismatic, 100% virgin acrylic specular/diffusing optical lens.

Fixture Length

Specify nominal fixture/row length in feet. For long runs, advise maximum extrusion length if 12' is not acceptable. 4', 8' or 12' nominal sections used to create runs.

Electrical

Specify 120 volt or 277 volt. Pre-

wired with prescribed circuits as specified. For special circuiting, consult factory. 3500°K T5 highoutput lamps are included.

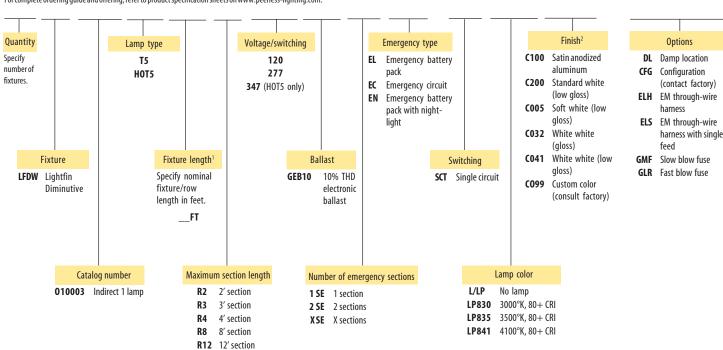
Listings

UL listed to US and Canandian safety standards.

Ordering Information

Example: 4 LFDW 010003 HOT5 40FT R12 120 GEB10 LP835 C100

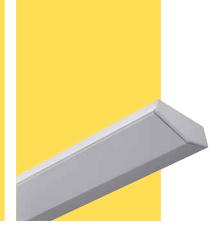
For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



NOTES:

- 1 For long runs, advise minimum extrusion length if 12' is not acceptable. 4',8' or 12' nominal sections used to create runs.
- $2\quad \text{To match custom color chip, specify CO99. If unknown, specify XXX.}$





Lightduct® Series makes the most of the T5 high-output fixture technology — nearly doubling the lumen output of a T8 fixture. These luminaires offer soft, even, high-quality light for today's multitask workplaces while reducing initial investment and life-cycle costs.

Lightduct®

Construction

Housing AA 6063 T6 extruded aluminum forming a 61/2" x 21/8" rounded channel. Die-cast end plate attaches with no exposed fasteners.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 86%).

Finish

Satin anodized or white paint standard; custom colors available.

Electrical

Specify 120 volt or 277 volt. Prewired with prescribed circuits and with UL listed. For special circuiting, consult factory. T5 high-output lamps are included.

Fixture Length

4', 8, and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length add $5^{1}/_{2}$ " for each end-cap.

Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

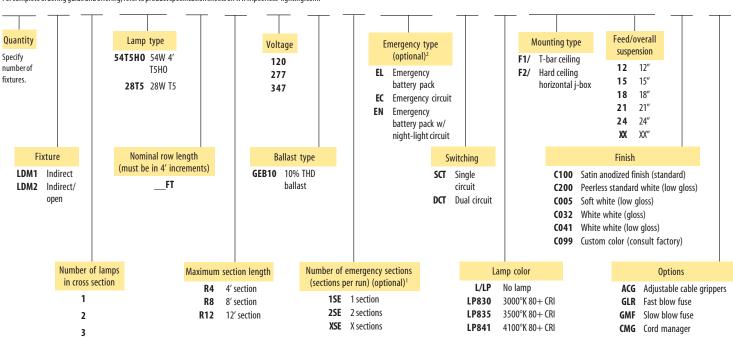
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

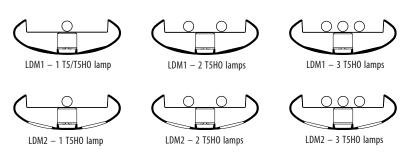
Example: 4 LDM1 1 54T5H0 40FT R12 120 GEB10 2SE EL SCT LP835 F1/24 C005

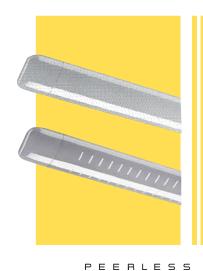
For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com



NOTES:

- $1\quad Maximum \, number \, of emergency \, sections \, per \, run \, equals \, number \, of$ fixture sections, minus one. For additional sections, consult factory.
- $2\quad EC and \, EL \, not \, available \, concurrently. \, EL \, and \, EC \, not \, available \, with \, DCT$ in 4' sections. Separate feed required.





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Lightduct® Wall

Finish

Standard colors are satin anodized aluminum, standard white (low gloss), white white (gloss) and white white (low gloss).

Construction

Housing AA 6063 T6 extruded aluminum forming a 7" x 2" rounded

Intended Use

Lightduct® Wall Mounted fixtures extend the diminutive look throughout a facility, projecting soft, uniform light on the wall and above and across the ceiling in corridors, small offices, and general use

This unique lighting product makes the most of T5 high-output technology. A single-lamp system projects as much light as 2-lamp T8 conventional fixtures.

channel. Die-cast end plate mechanically attached with no exposed fasteners.

Reflectors

Die-formed, baked white reflectors (86% nominal reflectance), including micro-prismatic, 100% virgin acrylic specular/diffusing optical lens.

Fixture Length

Specify nominal fixture/row length in feet. For long runs, advise maximum extrusion length if 12' is not acceptable. 4', 8' or 12' nominal sections used to create runs.

Specify 120 volt or 277 volt. Pre-

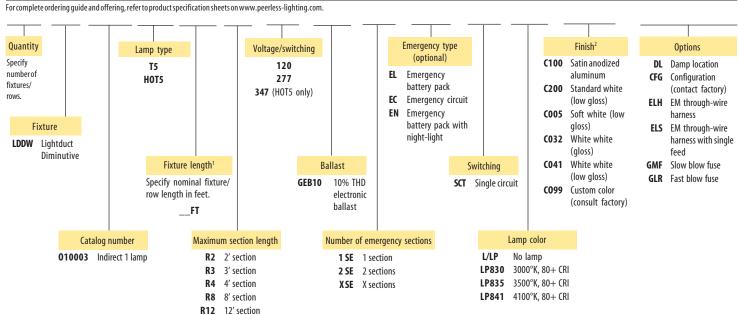
wired with prescribed circuits as specified. For special circuiting, consult factory. 3500K T5 highoutput lamps are included.

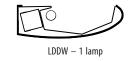
Listinas

UL listed to US and Canandian safety standards.

Ordering Information

Example: 4 LDDW 010003 T5 40FT R12 277 GEB10 LP835 C100





- For long runs, advise maximum extrusion length if 12' is not acceptable. 4'.8' or 12' nominal sections used to create runs
- 2 To match custom color chip, specify CO99. If unknown, specify XXX.

The Envision® Series delivers exceptional performance at an affordable price. The sophisticated indirect lighting optics can meet stringent IES standards for ceiling uniformity, providing soft, even illumination virtually free of glare and harsh shadows.

Envision®

Construction

Housing AA 6063 T6 extruded aluminum forming a 8" x 3" rounded channel. Die-cast end plate attaches with no exposed fasteners.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 86%).

Finish

Satin anodized or white paint standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347

volt. Pre-wired with prescribed circuits and are UL listed. For special circuiting, consult factory.

Fixture Length

4', 8', and 12' lengths in a single section for suspension spacing of 4', 8', and 12'. For total fixture length, add 1/2" for each end-cap. Using

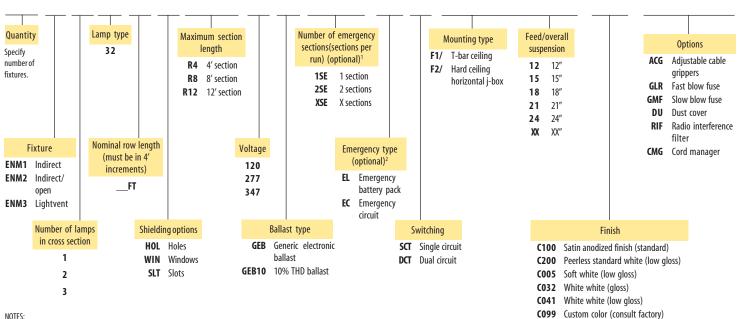
internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

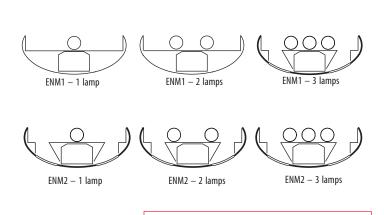
Example: 4 ENM1 1 32 40FT R12 120 GEB 2SE EL SCT F1/24 C005

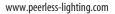


NOTES:

- Maximum number of emergency sections per run should not exceed number of fixture sections, minus one. For additional sections, consult factory.
- 2 EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.

LUMINAIRE CROSS SECTIONS







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Envision®

Intended Use

Envision® I/D lighting delivers exceptional performance at an affordable price. The sophisticated indirect lighting optics can meet stringent IES standards for ceiling uniformity, providing soft, even illumination virtually free of glare and harsh shadows.

Construction

Housing AA 6063 T6 extruded aluminum forming an 8" x 29/16" rounded channel. Die-cast end plate mechanically attached with no exposed fasteners.

Reflectors

Die-formed specular aluminum.

Shielding

Parabolic aluminum baffles with Achroma™ finish standard; semispecular finish available. Includes . VisorOptic™ opal diffuser lamp shield.

Finish

Satin anodized or white paint standard; custom colors available.

Electrical

Specify 120 volt or 277 volt. Prewired with prescribed circuits as specified. UL listed. For special circuiting, consult factory. T5 highoutput lamps are included.

Fixture Length

4'-0-1/4", 8' and 12' lengths in a single section for suspension spacing of 4', 8' and 12'. For total fixture length add 1/2" for each end-cap.

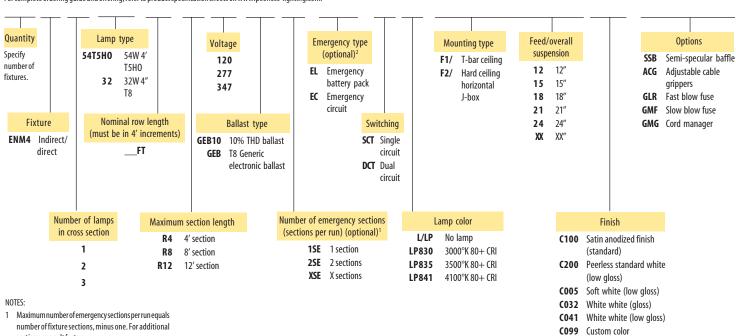
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 1 ENM4 2 54T5H0 40FT R12 120 GEB10 2SE EL SCT LP835 F1/24 C005 SSB

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



- 2 ECand EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.

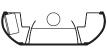
LUMINAIRE CROSS SECTIONS



ENM4 - 1 T5H0 lamp



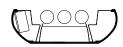
ENM4 - 2 T5H0 lamps



ENM4 - 1 T8 lamp



ENM4 - 2 T8 lamps



(consult factory)

ENM4 - 3 T8 lamps

Envision® Wall lighting uses the same high-quality optics as the pendant-mounted fixtures to project soft, uniform light on the wall above and across the ceiling in corridors, small offices, rooms with low ceilings, and in general use areas. Its diffuse indirect illumination provides high visual effectiveness and comfort, satisfying the most demanding requirements while making it possible to meet stringent IES standards.

Envision® Wall

Finish

Standard colors are satin anodized aluminum, standard white (low gloss), white white (gloss) and white white (low gloss).

Construction

Housing AA 6063 T6 extruded aluminum forming a 9" x 3" rounded channel. Die-cast end plate

mechanically attached with no exposed fasteners.

Reflectors

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 86%). Optical system includes micro-prismatic, 100% virgin acrylic specular/diffusing

optical lens.

Fixture Length

Specify nominal fixture/row length in feet. For long runs, advise maximum extrusion length if 12' if not acceptable. 4', 8' or 12' nominal sections used to create runs.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory.

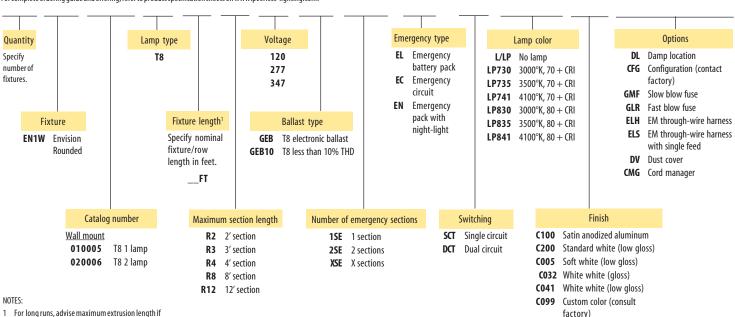
Listings

UL listed to US and Canandian safety standards.

Ordering Information

Example: 4 ENIW 020006 T8 40FT R12 GEB10 SCT L/LP C100

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



1 For long runs, advise maximum extrusion length if 12' is not acceptable. 4', 8' or 12' nominal sections used to create runs.

PSG9

LUMINAIRE CROSS SECTIONS







Envision® Cove

Intended Use

Envision® Cove lighting enhances even ordinary spaces, turning ceilings into glowing surfaces that illuminate without a hint of glare or uncomfortable contrast. Peerless optics deliver a smooth, even wash on the wall above and far across the ceiling. No socket shadows, no fall-off, just pure, even light.

Finish

Baked white enamel.

Construction

Housing one-piece cold rolled sheet steel with die-formed end plate forming a rectangular channel.

Reflectors

Reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 86%). Optical system includes microprismatic, 100% virgin acrylic specular/diffusing optical lens.

Fixture Length

From 2' to 8' in a single section only. Electrical Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special

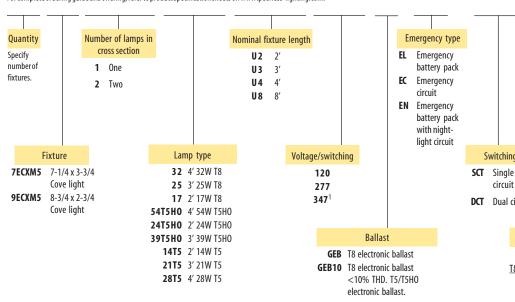
circuiting, consult factory.

Listinas

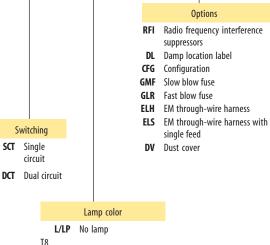
UL listed to US and Canandian safety standards.

Ordering Information

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



Example: 6 7ECXM5 2 32 U4 120 GEB SCT L/LP



T8

Switching

circuit

LP730 3000°K, 70 + CRI **LP735** 3500°K, 70 + CRI (std.) **LP741** 4100°K, 70 + CRI

T5/T5H0

LP830 3000°K, 80 + CRI **LP835** 3500°K, 80 + CRI (std.) **LP841** 4100°K, 80 + CRI

NOTES:

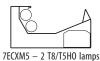
1 T5HO and T8 only.



7ECXM5 - 1 T8/T5H0 lamp



9ECXM5 - 1 T8/T5H0 lamp



9ECXM5 - 2 T8/T5H0 lamps

www.peerless-lighting.com

A classic design, the LD6 Series features a pure round form, flat endcaps and balanced brightness to create a crisp, classic look. Designed for school, library and commercial spaces, the LD6 luminaire also works well in retail and other public spaces where the classic look combined with the ability to have a higher, direct-light component are desired.

LD6

Available Summer 2006

Construction

Housing AA 6063 T6 extruded aluminum forming a 6" rounded channel. Die-cast end plate attaches with no exposed fasteners.

Reflectors

Die-formed reflectors combine

hammertone specular aluminum baked white enamel (nominal reflectance 86%)

Finish

Satin anodized or white paint standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits. For special circuiting, consult factory.

Nominal Fixture Length

4', 8' and 12' lengths in a single

section. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

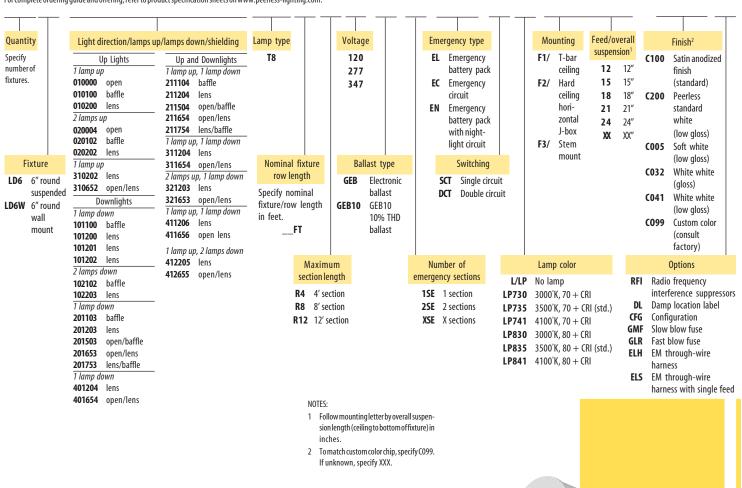
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 4 LD6 010000 T8 24FT R12 120 GEB SCT LP730 F1/12 C100

 $For complete ordering \ guide \ and \ offering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$



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Construction

Housing AA 6063 T6 extruded aluminum forming a 6" rounded channel. Die-cast end plate attaches with no exposed fasteners.

Reflectors

Die-formed reflectors combine

Intended Use

A classic design, the LD9 Series features a pure round form, flat endcaps and balanced brightness to create a crisp, classic look. Designed for school, library and commercial spaces, the LD6 luminaire also works well in retail and other public spaces where the classic look combined with the ability to have a higher, direct-light component are desired.

hammertone specular aluminum baked white enamel (nominal reflectance 86%)

Finish

Satin anodized or white paint standard; custom colors available.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits. For special circuiting, consult factory.

Nominal Fixture Length

4', 8' and 12' lengths in a single

section. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

Listings

Feed/

overall

suspension

15" 15

XX" XX

12 12"

18 18"

21 21"

24 24"

UL Listed to US and Canadian safety standards.

Finish²

anodized

(standard)

Peerless

white

C032 White white

C041 White white

(gloss)

standard

(low gloss)

Soft white

(low gloss)

(low gloss)

Custom color

(consult

factory)

finish

C100 Satin

C200

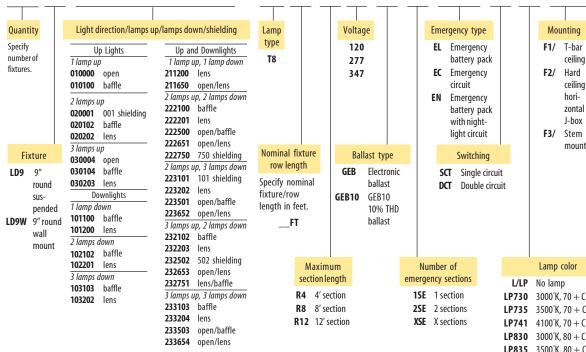
C005

(099

Ordering Information

Example: 4 LD9 211650 T8 36FT R12 277 GEB10 EL SCT L/LP F1/24 C100 GMF

 $For complete ordering \ guide \ and \ offering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$



Lamp color **LP730** 3000°K, 70 + CRI **LP735** 3500°K, 70 + CRI (std.) **LP741** 4100°K, 70 + CRI **LP830** 3000°K, 80 + CRI **LP835** 3500° K, 80 + CRI (std.) **LP841** 4100°K, 80 + CRI

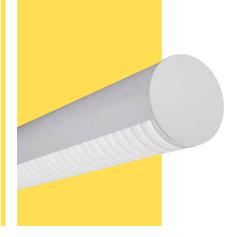
Options

Radio frequency interference suppressors Damp location label CFG Configuration GMF Slow blow fuse GLR Fast blow fuse EM through-wire harness ELS

EM through-wire harness with single feed

NOTES:

- 1 Follow mounting letter by overall suspension length (ceiling to bottom of fixture) in inches.
- 2 To match custom color chip, specify C099. If unknown, specify XXX.



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Suspended Lighting

Peerlite® is the lighting product of choice in multitask environments where performance is critical but resources are limited. Available in sleek contemporary forms with advanced optics, these affordable modular systems deliver soft, high-quality illumination for utmost visual comfort.



High-Performance Lighting

PEERLESS

Indirect/Open or Partially Perforated

Cerra®7



Features

2" x 7" crescent.

1, 2 or 3 lamps T5HO.

Partially perforated and indirect/open.

Rugged, one-piece, cold rolled steel

The Cerra® 7 Series features the smallest crescent profile in the industry and pure architectural form.

The distinctive square window pattern creates a dynamic visual fluidity as a unique highlight option.

Specular high-performance reflectors are offered for partially perforated and indirect/open.

Intended Use

The Cerra® 7 Series features a pure crescent architectural form and delivers exceptional performance and versatility. Cerra® 7 optical systems are precisely engineered to fully utilize our advanced high-output T5 (HOT-5®) fixture technology.

Designed for commercial and educational spaces, the petite Cerra® 7 Series has a nominal height of only 2". The optional die-cast sculptured end caps finish the rows with an elegant accent.

Sculptured end caps also are available for an elegant accent.

Refer to the Peerlite catalog or your agent for ordering information

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and T5H0 lamps included.

Fixture Length

4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1/16" for each flat end plate or 3" for each sculptured end

cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

Listings

UL Listed to US and Canadian safety standards.

Feed/overall

suspension5

24" 24

12 12"

15 15"

18 18"

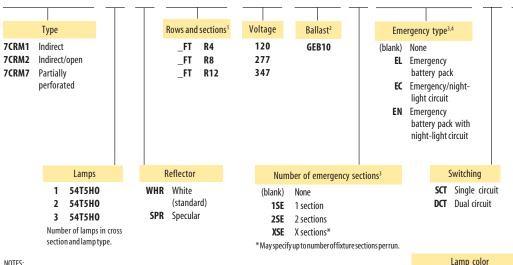
21 21"

XX XX'

Ordering Information

Example: 7CRM2 2 54T5H0 WHR 40FT R12 277 GEB10 DCT LP835 F1/18 SCEP

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



ACG Adjustable cable grippers **SCEP** Sculptured end caps

ELH EM through-wire with separate feed⁶

Options

DU Dust cover

Mounting type

T-bar ceiling

(Universal

mounting

bracket)

Hard ceiling

(horizontal j-box)

IDS clip, 15/16" tee

IDS clip, 9/16" tee

IDS clip, screw slot

F1/

F2/

F4Δ/

F4B/

F4C/

GMF Slow blow fuse GLR Fast blow fuse

CMG Cord manager

OTM On tenon mounting

APF Alternate power feed

NYC New York City code

ELS EM through-wire with single feed

- 1 Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length
- $2 \quad \mathsf{GEB10} \!=\! \mathsf{genericelectronicballast}, \!<\! 10\% \,\mathsf{THD}. \\ \mathsf{Consultfactory for dimming options}.$
- **Optional**
- 4 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- 5 Suspension length is measured from finished ceiling to bottom of fixture.
- 6 For single feed of all emergency or night-light sections in row from opposite end of

LUMINAIRE CROSS SECTIONS (2" x 7" Nominal)

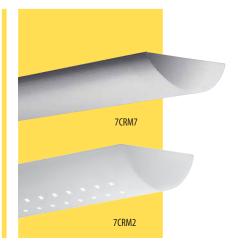
L/LP No lamp

LP830 3000°K, 80 + CRI

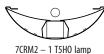
LP841 4100°K, 80 + CRI

(standard)

3500°K, 80 + CRI



PEERLESS



7CRM7 - 1 T5H0 lamp

7CRM2 - 2 T5H0 lamps



7CRM7 - 2 T5H0 lamps

7CRM7 - 3 T5H0 lamps

www.peerless-lighting.com

The Cerra® 10 Series features a pure crescent architectural form and delivers exceptional performance and versatility. Cerra® 10 optical systems are precisely engineered to fully conventional T8 lamps.

Designed for commercial and educational spaces, the slender Cerra® 10 Series has a nominal height of only 3". The optional die-cast sculptured end caps finish the rows with an elegant accent.

Features

3" x 10" crescent.

2, 3, or 4 T8 lamps.

Partially perforated, fully perforated and indirect/open.

Rugged, one-piece, cold rolled steel construction.

The Cerra® 10 Series shares the crescent form of the Cerra® 7 Series with a slightly larger scale.

On projects where other crescent shapes are specified, the Cerra® 10 Series is a competitive alternative with many value-added features.

Refer to the Peerlite catalog or your agent for ordering information.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and T8 lamps included.

Fixture Length

4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8', and 12'. For total fixture length, add 1/16" for each flat end plate or 4" for each sculptured end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

Cerra®10



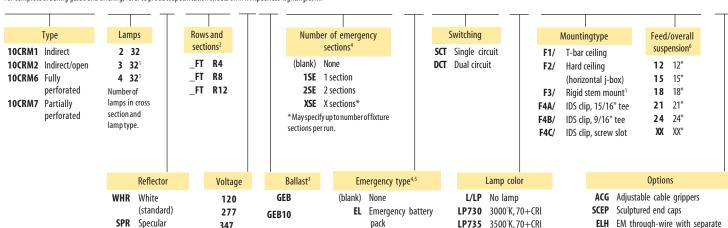
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

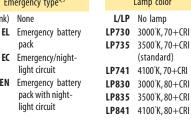
Example: 10CRM2 4 32 WHR 40FT R12 277 GEB DCT LP735 F1/18 SCEP

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



NOTES:

- 1 Not available with 10CRM6.
- 2 Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section
- 3 GEB=genericelectronic ballast, < 20% THD. GEB10=genericelectronic ballast, <10% THD. Consult factory for dimming options.
- 4 Optional
- 5 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- 6 Suspension length is measured from finished ceiling to bottom of fixture.
- of normal power feed.



EM through-wire with separate feed

DII Dust cover

GMF Slow blow fuse

GLR Fast blow fuse

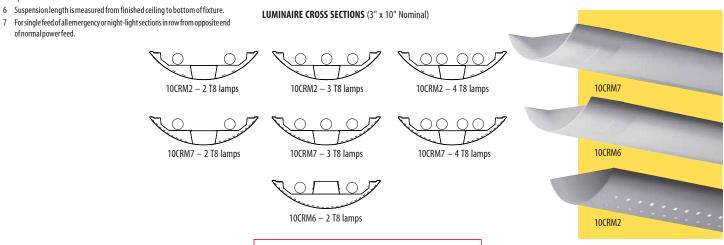
CMG Cord manager

ОТМ On tenon mounting

APF Alternate power feed

NYC New York City code

ELS EM through-wire with single feed



www.peerless-lighting.com

PEERLESS





Cerra® ID from Peerlite, is an indirect/direct suspended luminaire that features a low profile and pure crescent shape. Use Cerra® ID in classrooms, conference rooms, laboratories and office spaces where the general benefits of indirect lighting are desired, but a higher percentage of direct light is required.

Construction

Housing is a nominal 10" x 3" crescent channel formed from onepiece cold-rolled steel. Flat end plate standard. Sculptured die-cast aluminum end cap is optional.

Shielding

SSB — Parabolic aluminum baffle with semi-specular finish.

SBL - White steel straight blade

PPL - White perforated steel straight blade baffle.

Reflectors

Reflecting surfaces have white finish (nominal reflectance 90%).

Finish

Fine textured white polyester powder paint is standard. Consult factory for special finish requirements.

Electrical

Specify 120, 277 or 347 volts. Prewired with 16 ga. fixture wire. For special circuiting or wire guage,

consult factory. Plug-in electrical connectors included. T8 lamps included.

Fixture Length

4', 8', and 12' lengths in a single section for nominal suspension spacing of 4', 8' and 12'. For total fixture length, add 1/16" for each flat end plate or 4" for each sculptured end cap. Using internal joiners, 4', 8', and 12' sections can be joined to form longer-length fixtures.

Listings

UL Listed to US and Canadian safety standards.

Feed/overall

suspension

12 12"

15 15"

18 18"

21 21"

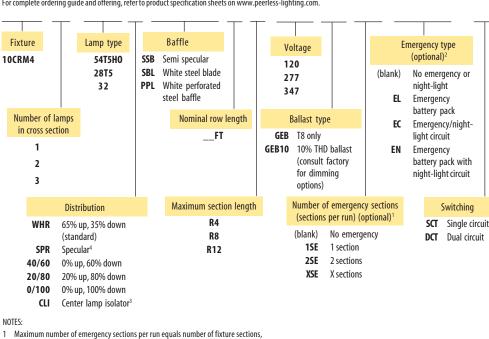
24 24"

XX XX'

Ordering Information

Example: 10CRM4 2 32 WHR SSB 40FT R12 277 GEB DCT LP735 F1/18 SCEP

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



Mounting type

F1/ T-Bar ceiling (universal mounting bracket) Hard ceiling

(horizontal J-box)

Rigid stem mount **F4A/** IDS clip 15/16" tee **F4B/** IDS clip 9/16" tee

IDS clip screw slot

Lamp color

L/LP No lamps 3000°K,70+CRI IP730 3500°K,70+CRI LP735 (standard T8) 4100°K,70+CRI IP741 LP830 3000°K,80+CRI 3500°K,80+CRI LP835 (standard T5/T5H0) LP841 4100°K,80+CRI

Options

ACG Adjustable cable grippers

APF Alternate power feed CMG Cord manager

DU Dust cover

ELH EM through-wire with separate feed

ELS EM through-wire with single feed

GLR Fast blow fuse

GMF Slow blow fuse

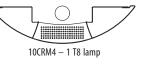
OTM On tenon mount

SCEP Sculptured end cap

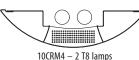
NYC New York City code

- minus one. For additional sections, consult factory.
- 2 EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.
- 3 Available with 3 lamp cross section only.

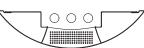
NEW











 \cap

10CRM4 - 3 T5/T5H0 lamps

10CRM4 - 1 T5/T5H0 lamp

10CRM4 - 2 T5/T5H0 lamps

162

With a pure crescent shape, parallel baffled openings and perforated side walls to soften the fixture and provide a luminous form, Cerra® Lightvent from Peerlite delivers soft, even illumination for office and school lighting applications. Cerra® Lightvent is available in the petit Cerra® 7 family and the architecturally refined Cerra® 10 family.

Cerra® Lightvent

Construction

Specify 7" x 2" or 10"x3" crescent channel formed from one-piece coldrolled steel. Flat end plate standard. Sculptured die cast aluminum end cap is optional.

Reflectors

Reflecting surfaces have white finish (nominal reflectance 90%).

Finish

Fine textured white polyester powder paint is standard. Consult factory for special finish requirements.

Shielding

Parallel white painted steel baffles with acrylic opal diffuser overlay. Diepunched perforations on upper housing with acrylic opal diffuser overlay.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16 ga. fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included. T8,T5 or T5HO lamps included.

Fixture Le ngth

4', 8' and 12' lengths in a single section for nominal suspension

Number of emergency sections²

1 section

2 sections

X sections

No emergency

spacing of 4', 8' and 12'. For total fixture length, add 1/16" for each flat end plate. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

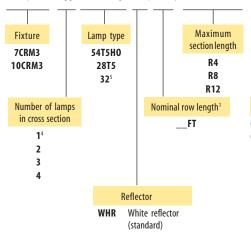
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 7CRM3 2 54T5H0 WHR 40FT R12 277 GEB10 DCT LP835 F1/18 SCEP

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



Voltage 120 277 347 Ballast type T8 only

GEB <10% THD GEB10 ballast (consult factory for dimming options)

(blank)

1SE

2SE

XSE

Emergency type 2,3 (blank) No emergency or

niaht-liaht EL **Emergency battery** pack

Emergency/night-light EC circuit

Emergency battery pack with night-light circuit

Switching

DCT

SCT Single L/LP No lamps LP730 3000°K,70+CRI circuit Dual LP735 3500°K,70+CRI (standard T8)

> LP741 4100°K,70+CRI LP830 3000°K,80+CRI LP835 3500°K.80+CRI (standard T5/T5H0)

LP841 4100°K,80+CRI

Feed/overall suspension

12 12"

15 15"

18 18"

21 21"

24 24"

XX XX"

F1/ T-Bar ceiling (universal mounting bracket)

F2/ Hard ceiling (horizontal J-box) Rigid stem mount

Mounting type

(10CRM3 only) F4A/ IDS clip 15/16" tee **F4B/** IDS clip 9/16" tee

F4C/ IDS clip screw slot

Lamp color

Options

ACG Adjustable cable arippers Alternate power feed

CMG Cord manager

DU Dust cover

ELH EM through-wire with separate feed

ELS EM through-wire with single feed

GLR Fast blow fuse

GMF Slow blow fuse

OTM On tenon mount

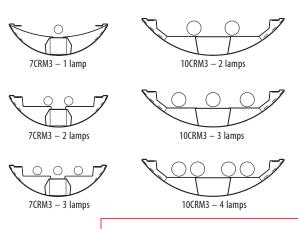
SCEP Sculptured end cap

PEERLESS

New York City code NYC

NOTES:

- 1 Must be in 4' increments.
- 2 Optional.
- 3 EL and EC are installed in last 4' of fixture sections and are $not available \, concurrently \, with \, each \, other. \, Separate feed \,$ required for each EL or EC unless ELS/ELH is specified.
- 4 Not available on 10CRM3.
- 5 Notavailable on 7CRM3.





Cerra®

Accessories



Features Sculptured ends

Die-cast aluminum with a minimizing, elegant design.

Available for all Cerra $\hspace{-0.5em}^{\circledR}$ product offerings.

Corners and Tenons

Die-cast aluminum with aluminum extrusions.

Allows you to create configurations or introduce architectural rhythm into a space.

Available for all Cerra® product offerings.

Refer to the Peerlite catalog or your agent for ordering information.

Determine desired configuration of fixtures, tenons and corners.

For total row length, sum 4', 8' and 12' fixture sections and add tenon and corner dimensions as shown in the Peerlite catalog. Consult factory for layout assistance if required.

Order fixture sections.

See Peerlite catalog for ordering information.

Specify des

Specify desired component.

End Caps and Connector Kits

Notes

- 1) Each end cap kit includes two end caps. Only one set is needed per row.
- 2) Flat end caps should not be used in conjunction with tenon or corner configurations.
- Through-wire harnesses required on tenon and corner kits when feeding emergency sections.

Cerra® 7 end caps, connector kits

7CRMEP SCEP Sculptured end cap kit **7CRMEP** Flat end plate kit

7CRM TNN Tenon kit (includes end cap, attached on

each end)

7CRM TNN ELH Tenon kit with EM through-wire harness **7CRM CNR** 90° corner kit (includes end cap, attached

on each end)

7CRM CNR ELH 90° corner kit with EM through-wire

arness

Cerra® 10 end caps, connector kits

10CRMEP SCEP Sculptured end cap kit **10CRMEP** Flat end plate kit

10CRM TNN Tenon kit (includes end cap, attached on

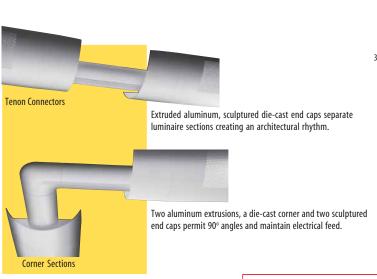
each end)

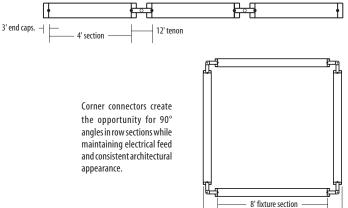
10CRM TNN ELH Tenon kit with EM through-wire harness **10CRM CNR** 90° corner kit (includes end cap, attached

on each end)

10CRM CNR ELH 90° corner kit with EM through-wire

harness





14' 6" O.A.

10' 3-1/8" O.A.

With a clean architectural form and exceptional performance, the Cerra® WallSeries offers extraordinary versatility in a wall-mount indirect luminaire.

These elegant luminaires complement the Cerra® 7 and Cerra® 10 suspended products enabling them to be used together on projects. The optional die-cast sculptured end caps finish the rows with an elegant accent.

Cerra® Wall

Options SCEP Sculptured end caps **ELH** EM through-wire with

separate feed⁵ **ELS** EM through-wire with single

feed DU

Dust cover

GMF Slow blow fuse GLR Fast blow fuse



Features

1 or 2 lamps, T8 or T5HO.

Indirect, partially perforated and indirect/open.

Rugged, one-piece, cold rolled steel construction.

Unlike the competition, the optics of the Cerra® Wall Series are designed

to create uniform illumination with no socket shadows. This superior performance is offered at the same or lower price.

Refer to the Peerlite catalog or your agent for ordering information.

Electrical

Specify 120 volt, 277 volt or 347

volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and lamps included.

Fixture Length

Nominal 4', 8' and 12' lengths form row lengths. Actual section length = 11 5/8" per nominal foot specificed.

For total fixture length, add 1/16" for each flat end plate or 4" for each sculptured end cap. For longer run lengths, sections are attached using internal joiners.

2' and 3' sections available; consult factory for details.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: CRW2 1 54T5H0 WHR 40FTN R12 277 GEB10 SCT LP835 SCEP

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

CRW2 CRW3	Type Indirect Indirect/open Indirect/ partially perforated Partially perforated	1 5 2 3 2 2	2 8T5 4T5H0 2 8T5 4T5H0 flampsin tion and		FTN6 FTN6 FTN6 FTN6 FTN TTT	 Voltage 120 277 347	Ballas GEB (T8 GEB10		(blank) EL EC	mergency type None Emergency I pack Emergency/r light circuit Emergency I pack with nig circuit
			WHR SPR	eflector White (standard Specular)		(blank)	,		SCT DCT

NOTES:

- 1 Specify nominal row length in 4' increments. R4/R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional
- 2 GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options. GEB is standard for T8. GEB10 is standard for HOT-5°.
- 3 Ontional
- ${\bf 4}\quad EL, EN\ and\ EC\ are\ installed\ in\ last\ 4'\ of\ fixture\ sections\ and\ are\ not\ available\ concurrently.\ Separate\ feed$ $required for each \, EL\, or\, EC\, unless\, ELH\, option\, is\, specified.$
- 5 For single feed of all emergency or night-light sections in row from opposite end of normal power feed.
- 6 SpecifyforT5H0/T5.

- battery
- /night-
- battery night-light

XSE X sections*

* May specify up to number of fixture sections per run.

Switching

Single circuit Dual circuit

Lamp color L/LP No lamp

LP730 3000°K, 70+ CRI 3500°K, 70+ CRI

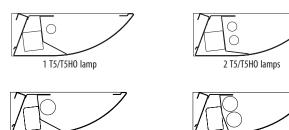
(standard T8)

4100°K, 70+ CRI LP741 3000°K, 80+ CRI LP830

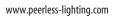
3500°K, 80+ CRI LP835 (standard T5/T5H0)

LP841 4100°K, 80+ CRI

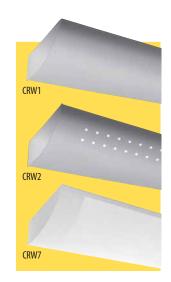
LUMINAIRE CROSS SECTIONS (8" x 3" Nominal)



1 T8 lamp



2 T8 lamps



PEERLESS

Cerra® Baffle



Features

Full-baffle style crescent form. Nominal 3" x 10" size.

Extruded aluminum spline with onepiece aluminum baffle and steel and die-cast aluminum endcap.

Available in 2,3,4 T8 lamp configurations and 1,2,3,4 T5/T5H0 lamp configurations.

Opal diffuser available to shield lamp view. Standard with T5/T5H0 lamping and as an option with T8.

Multiple indirect and direct light distribution options: T8 - 70/30, 50/ 50, 30/70, 5/95, T5/T5H0 - 80/20, 40/60, 5/95.

Intended Use

A new take on a classic full baffle design, the Cerra® Baffle Series features a pure crescent form, sculptured endcaps, and balanced zonal brightness to create a crisp, fresh look.

Designed for school, library, and commercial spaces, Cerra® Baffle also works well in retail and other public spaces where the distinctive look combined with the ability to have a higher, direct-light component are desired.

Two standard finishes are available: white low-gloss and natural aluminum. Optional custom colors also available on spline and end plates.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and lamps included.

Fixture Length

4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1" for each end cap.

Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

Listings

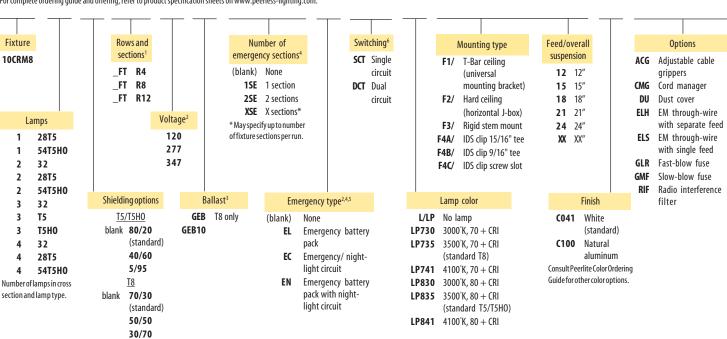
UL Listed to US and Canadian safety standards.

Ordering Information

Example: 10CRM8 2 32 40FT R8 277 GEB10 DCT LP835 F1/18 C100 ACG

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

5/95



LUMINAIRE CROSS SECTIONS (3" x 10" Nominal)

10CRM8 - 1 T5/T5H0 lamp 10CRM8 - 2 T5/T5H0 lamps 10CRM8 - 3 T5/T5H0 lamps 10CRM8 - 4 T5/T5H0 lamps 10CRM8 - 2 T8 lamps 10CRM8 - 3 T8 lamps 10CRM8 - 4 T8 lamps

- 1 Specify nominal row length in 4' increments, R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- 2 EL, EN, dimming ballast not available with 347V.
- GEB=genericelectronicballast, < 20% THD. GEB10 = generic electronic ballast, 10% THD. Consult factory for dimming options.
- 4 Optional.
- 5 FL and FC are installed in last 4' of fixture sections and are not available concurrently with each other Separate feed required for each EL.EC. or EN unless ELH or ELS specified.
- 6 Use with DCT option to switch indirect and direct separately.

The Cerra® Baffle Wall Series uses the distinct design element of the classic full baffle luminaire and applies them to a wall-mount luminaire providomg balanced zonal brightness and a crisp, fresh look.

These elegant luminaries complement the Cerra® Baffle and Cerra® Direct suspended products enabling them to be used together on projects. Designed for commercial, educational, and public spaces where a wall-mount indirect luminaire is required.

Features

Full-baffle style half-crescent form. Nominal 3"x 6.5" size.

Extruded aluminum spline with onepiece aluminum baffle and steel and die-cast aluminum endcap.

Available in 1- and 2-lamp T8, T5, and T5HO lamp configurations.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom color also available on spline and end plates.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and lamps included.

Cerra® Baffle Wall



Fixture Length

Nominal 4', 8' and 12' sections form row lengths. For longer run lengths, sections are attached using internal ioiners.

2' and 3' sections available, consult factory for details.

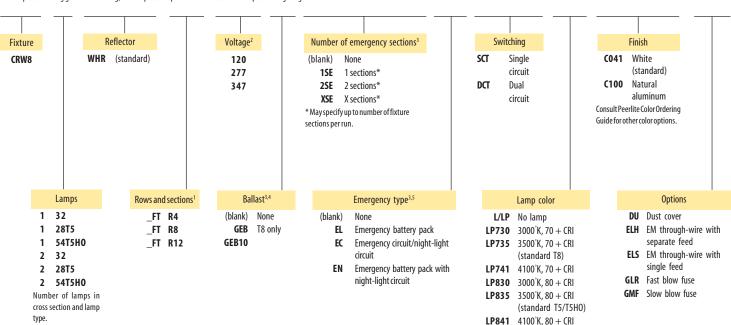
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

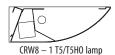
Example: CRW8 2 54T5H0 WHR 40FT R8 277 GEB10 DCT LP835 C100 GLR

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

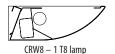


- 1 Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional increments.
- 2 EL, EN, dimming ballast not available with 347V.
- 3 Optional.
- 4 GEB=genericelectronicballast, < 20% THD. GEB10 = generic electronic ballast, 10% THD. Consult factory for dimming options.
- 5 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other. Separate feed required for each EL. EC or EN unless ELH or ELS specified.

LUMINAIRE CROSS SECTIONS (8" x 3" Nominal)

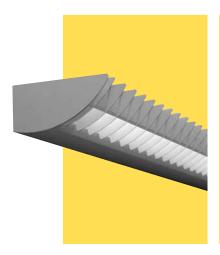








CRW8 - 2 T8 lamps



Cerra® Direct



Features

Full-baffle style crescent form. Nominal 3" x 7" size.

Pendant and surface-mount products available

Extruded aluminum spline with onepiece aluminum baffle and steel and die-cast aluminum endcap.

Intended Use

For those applications where only direct light is needed from a suspended or surface-mounted luminaire, the Cerra® Direct Series is the solution. With a clean crescent shape and classic full baffle design, Cerra® Direct can be applied successfully in a variety of applications in commercial and retail spaces.

Available in 1- and 2-lamp T8, T5, and T5H0 lamp configurations.

Straight blade baffles with perforated side reflector/shield.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom color also available on spline and end plates.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and lamps included.

Fixture Length

4', 8' and 12' lengths in a single

section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer

Listinas

UL Listed to US and Canadian safety standards.

Ordering Information

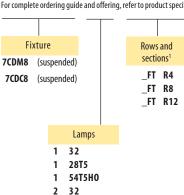
2 28T5

54T5H0

Number of lamps in cross section and lamp type.

Example: 7CDM8 2 54T5H0 40FT R8 277 GEB10 DCT LP835 F1/18 C100 GMF

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



THD ballast

Voltage Switching 120 SCT Single circuit 277 Dual circuit 347 Ballast^{3,4} Emergency type3,5 GEB T8 only (blank) None GEB10 < 10% **EL** Emergency battery pack Emergency circuit/nightlight circuit Emergency battery pack

> Number of emergency sections³ (blank) None

1SE 1 section 2SF 2 sections XSE X sections*

*May specify up to number of fixture sections

with night-light circuit

Lamp color L/LP No lamp

3000°K, 70 + CRI LP730 **LP735** 3500°K, 70 + CRI (standard T8)

LP741 4100°K, 70 + CRI **LP830** 3000°K, 80 + CRI

3500°K, 80 + CRI (standard T5/ LP835 T5H0)

LP841 4100°K, 80 + CRI

Mounting type

F1/ T-Bar ceiling F2/ Hard ceiling (horizontal J-box)

Rigid stem mount F3/ F4A/ IDS clip 15/16" tee

F4B/ IDS clip 9/16" tee F4C/ IDS clip screw slot

Feed/overall⁶ suspension

12 12" **15** 15" **18** 18"

21 21" **24** 24" XX XX"

C041 White (standard) C100 Natural aluminum

Finish

Consult Peerlite Color Ordering Guide for other color

Options

ACG Adjustable cable grippers6

ELH EM through-wire with separate feed

EM through-wire with single feed

Variable support spacing⁶

NYC New York City code

OTM On tenon mounting

GLR Fast blow fuse

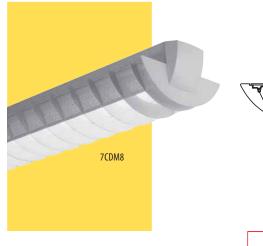
GMF Slow blow fuse

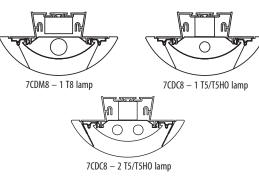
CMG Cord manager⁶

APF Alternate power feed6

NOTES:

- 1 Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Fxample: 40FTR12 is a 40' run with a 12' maximum section length
- 2 EL, EN, dimming ballast not available with 347V.
- GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, 10% THD. Consult factory for dimming options.
- 5 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other Separate feed required for each EL, EC, or EN unless ELH or ELS specified.
- 6 Use only with 7CDM8 suspended fixtures.





LUMINAIRE CROSS SECTIONS (3" x 7" Nominal)

Cerra® Direct Diffused incorporates straight blade baffles and an acrylic opal diffuser to deliver soft, eye-pleasing light. Ideal for spaces that require a direct light and the added comfort of a diffuser such as retail, library stacks, corridors and circulation spaces.

Cerra® Direct Diffused



Construction

Nominal 7" x 33/4" with extruded aluminum spline and nominal fourfoot, one-piece aluminum baffle assemblies and steel and die-cast aluminum sculptured endcap.

Reflectors

White, polyester powder center reflector (nominal reflectance 90%).

White, polyester powder perforated side reflector/shield (nominal reflectance 90%).

Natural finish option includes clearcoat aluminum baffle and perforated side reflector/shield.

Shielding

Straight blade baffles with acrylic opal diffuser overlay.

Finish

White polyester powder.

On the natural finish option, the spline is anodized with a clear coat baffle and a painted endcap. Optional custom color on the spline and endcaps is available; consult

Electrical

Specify 120, 277 or 347 volts. Prewired with 16awg. fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included.

Fixture Length

4'. 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1" for each endcap. Using internal joiners 4', 8', and 12' sections can be joined to form longer

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: 7CDM8 1 28T5 0PD 20FT R8 120 GEB10 SCT LP835 F1/18

Feed/overall

suspension7

12 12"

15 15"

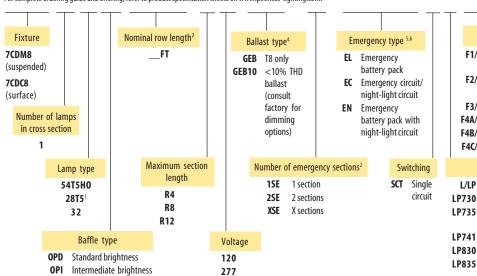
18 18"

21 21"

24 24"

XX XX"

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.



347

Mounting type

T-Bar ceiling (universal mounting bracket) F2/ Hard ceiling

(horizontal J-box) Rigid stem mount

F4A/ IDS clip 15/16" tee F4B/ IDS clip 9/16" tee

F4C/ IDS clip screw slot

Lamp color

I/IP No lamps LP730 3000°K,70+CRI LP735 3500°K,70+CRI (standard T8)

LP741 4100°K,70+CRI LP830 3000°K,80+CRI

3500°K,80+CRI

(standard T5/T5H0) LP841 4100°K,80+CRI

Finish

White C041 (standard)

C100 Natural aluminum

Consult Peerlite Color Ordering Guide for other color options.

Ontions

ACG Adjustable cable grippers7

Alternate power feed7

CMG Cord manager⁷

EM through-wire with separate feed

ELS EM through-wire with single feed

Fast blow fuse

GMF Slow blow fuse

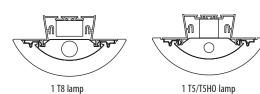
NYC New York City code

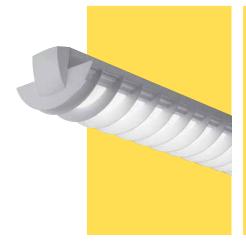
Variable support spacing7

NOTES:

- 1 Not available with 347 or dimming ballast.
- Must be in 4' increments
- 3 EL, EN, dimming ballast not available with 347V.
- Consult factory for dimming ballast.
- 5 Optional.
- 6 EL and EC are installed in last 4' of fixture sections $and are \, not \, available \, concurrently \, with \, each \, other.$ Separate feed required for each EL, EC or EN unless ELH or ELS is specified.
- 7 Use only with 7CDM8 suspended fixtures.

LUMINAIRE CROSS SECTIONS





Cerra® Direct Accents



successfully in a variety of applications in commercial and retail spaces. These elegant luminaires complement the Cerra® Baffle and Cerra® Direct suspended products enabling them to be used together on projects.

A 2' sconce version also is available.

Features

Full-baffle style crescent form. Nominal 3" x 7" size.

Wall-mount and decorative sconce.

Extruded aluminum spline with onepiece aluminum baffle and steel and die-cast aluminum endcap.

Available in 1-lamp T8, T5 and T5H0

lamp configurations.

Intended Use

Three diffusers are available, each providing varying degrees of brightness and light control.

Two standard finishes are available; white low-gloss and natural aluminum. Optional custom colors also available on spline and end plates.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with 16-gauge fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors and lamps included.

With a clean crescent shape and classic full baffle design, Cerra® Direct Accents can be applied

Fixture Length

4', 8' and 12' lengths in a single

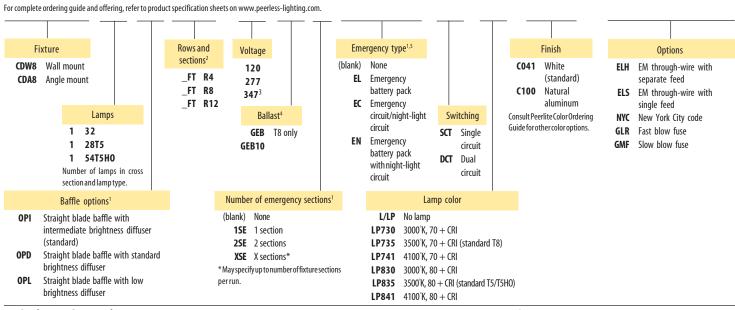
section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer

Listinas

UL Listed to US and Canadian safety standards.

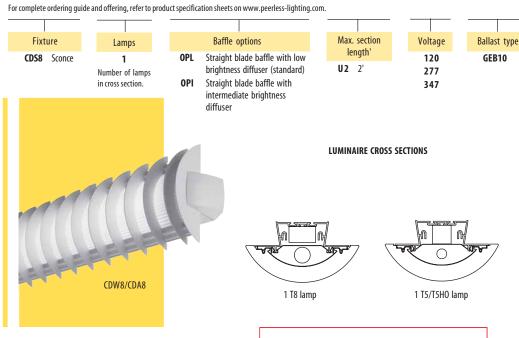
Ordering Information

Example: CDW8 1 54T5H0 40FT R8 277 GEB10 SCT LP835 C100 GMF



Ordering Information

Example: CDS8 1 OPL U2 277 GEB10 C100 WAV



Finish C041 White (standard) C100 Natural aluminum Consult Peerlite Color Ordering

Options WAV Angle mount, vertical Angle mount, horizontal WSP Wall spacer WFV Flush vertical WFV Flush horizontal

NOTES:

Guide for other color options.

- 1 Optional
- 2 Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length. Consult factory for additional incre-
- 3 EL, EN, dimming ballast not available with 347V.
- GEB=genericelectronicballast, < 20% THD. GEB10 = generic electronic ballast, 10% THD. Consult factory for dimming options.
- 5 EL and EC are installed in last 4' of fixture sections and are not available concurrently with each other Separate feed required for each EL, EC or EN unless ELH or ELS specified.

The Aero® Series offers superior design and engineering in a choice of totally indirect or indirect/ open fixtures, all of which meet stringent IES RP-1 standards for office lighting. Its angular lines and slim proportions complement any interior environment.

The Aero® Series delivers advanced T5 high-output (HOT-5®) fixture technology, nearly doubling the lumen output of a T8 fixture.

Features

Contemporary, ultra-shallow, angular form.

Rugged, one-piece, cold-rolled steel construction. Die-formed white reflector with minimum 85 percent reflectance.

Utilizes energy-efficient, T5 highoutput lamps.

Choice of total indirect distribution or die-punched perforated hole pattern on underside, providing an appealing visual cue.

Electrical quick connectors facilitate

installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

HOT-5® luminaire technology significantly enhances the benefits of the T5 high output lamp.

Peerlite Aero®



Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory. T5HO lamps are included.

Fixture Length

4', 8' and 12' lengths in a single

section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1/2" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer

Listings

CMG Cord manager

UL Listed to US and Canadian safety standards.

Ordering Information

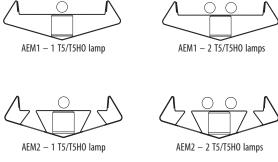
Example: AEM2 2 54T5H0 12FT R8 277 GEB10 SCT L/LP F2/15 ACG

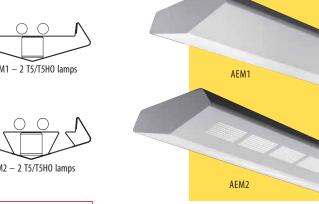
For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com. Feed/overall Ballast² Mounting type Rows and sections¹ Emergency type3,4 Switching Type suspension⁵ GEB10 (blank) None SCT F1/ T-Bar ceiling AEM1 Indirect FT Single **12** 12" FT R8 **EL** Emergency F2/ Hard ceiling AEM2 Indirect/open circuit 15 15° AEM2 CWIN Indirect/open, FT R12 battery pack Dual (horizontal J-box) **18** 18" Emergency **F4A/** IDS clip 15/16" tee continuous circuit **21** 21" circuit/night-light window **F4B/** IDS clip 9/16" tee **24** 24" circuit F4C/ IDS clip screw slot XX XX" Emergency battery pack with night-light circuit Reflector Voltage Number of emergency sections³ Ontions Lamns Lamp color SPR 28T5 Specular 120 (blank) None L/LP **ACG** Adjustable cable grippers No lamp 2 28T5 reflector 277 1SE 1 section APF Alternate power feed 3000°K, 80 + CRI LP830 WHR White 54T5H0 347 2SE 2 sections 3500°K, 80 + CRI SPR Specular reflector reflector 54T5H0 XSE X sections³ (standard) ELH EM through-wire with separate feed⁶ 2 (standard) **LP841** 4100°K, 80 + CRI Number of lamps in * May specify up to number of fixture sec-ELS EM through-wire with single feed cross section and lamp tions per run. **DU** Dust cover GMF Slow blow fuse GLR Fast blow fuse

NOTES:

- 1 Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- 2 GEB 10 = generic electronic ballast. < 10% THD. Consult factory for dimming options.
- 3 Optional.
- 4 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified.
- 5 Suspension length is measured from finished ceiling to bottom of fixture.
- 6 For single feed of all emergency or night-light sections in row from opposite end of normal power

LUMINAIRE CROSS SECTIONS (6" x 2" Nominal)





172





Features

Contemporary, ultra-shallow, oval

Rugged, one-piece, cold-rolled steel construction

Die-formed white reflector with minimum 85% reflectance.

Utilizes energy-efficient T5 highoutput lamps.

Intended Use

The Enzo® Series complements any interior architecture with its diminutive elliptical shape and flawless textured finish. The Enzo® Series offers superior design and engineering in a choice of totally indirect or indirect/open fixtures, all of which meet stringent IES RP-1 standards for office lighting.

The Enzo® Series delivers advanced T5 high-output (HOT-5®) fixture technology, nearly doubling the lumen output of a T8 fixture.

Choice of total indirect distribution or die-punched perforated hole pattern on underside providing an appealing visual cue.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

HOT-5® luminaire technology significantly enhances the benefits of the T5 high output lamp.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory. T5HO lamps are included.

Fixture Length

4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1/2" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

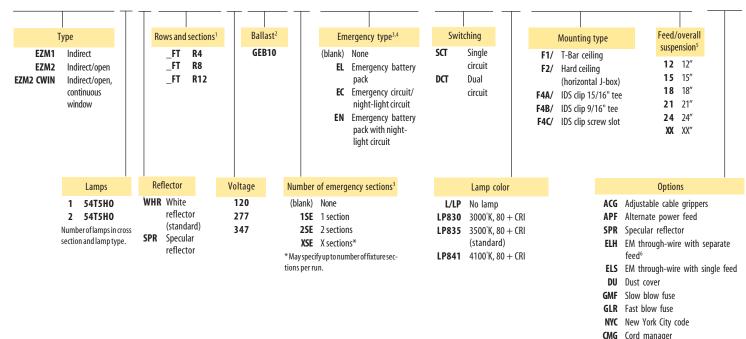
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

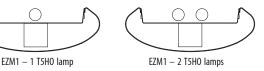
Example: EZM2 2 54T5H0 12FT R8 277 GEB10 SCT L/LP F1/24 ACG

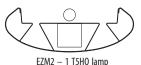
For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

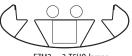


EZM1 EZM2

LUMINAIRE CROSS SECTIONS (6" x 2" Nominal)







EZM2 - 2 T5H0 lamps

- Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.
- 2 GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- 3 Optional.
- 4 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless EL Hoption is specified
- 5 Suspension length is measured from finished ceiling to bottom of fixture.
- For single feed of all emergency or night-light $\stackrel{-}{\text{sections}} \stackrel{-}{\text{in row from opposite}} \text{ end of normal power}$

The Prima® family offers superior design and engineering in a wide variety of low-cost fixtures. Designed to offer high-quality lighting for general office, school and library installations.

All Prima® fixtures share the same gracefully rounded shape and can be combined on the same project, providing an additional level of versatility where needs vary.



Features

Pure, low-profile oval form.

Rugged, one-piece, roll-formed, cold-rolled steel construction.

Choice of optical system — indirect only, indirect with Lightvent , indirect/fully perforated or indirect/

partially perforated.

Die-formed white reflector system.

Electrical quick connectors facilitate installation and joining.

Fine textured white paint standard. Consult factory for special finish requirements.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory. Lamps are included

Fixture Length

4', 8' and 12' lengths in a single section

for exact suspension spacing of 4', 8' and 12'. For total fixture length, add ½" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

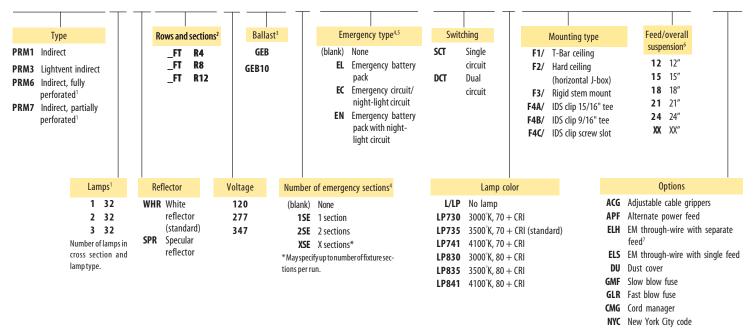
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

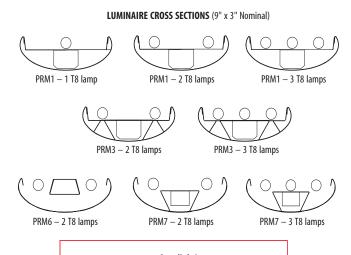
Example: PRM1 1 32 40FT R12 120 GEB 2SE EL SCT LP735 F1/24

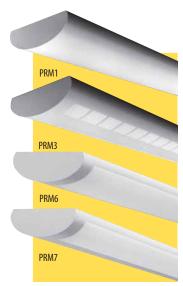
 $For complete ordering \ guide \ and \ offering, refer to \ product \ specification \ sheets \ on \ www.peerless-lighting.com.$



NOTES:

- PRM6 available for 2 lamps only. PRM3 and PRM7 available for 2 or 3 lamps only.
- $2 \quad Specify nominal row length in 4' increments. R4/R8/R12 \\ indicates maximum length of section. Example: 40FTR12 \\ is a 40' run with a 12' maximum section length.$
- 3 GEB = generic electronic ballast, <20% THD. GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- 4 Optional.
- 5 EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELH option is specified. EL not available in 347V.
- 6 Suspension length is measured from finished ceiling to bottom of fixture.
- 7 For single feed of all emergency or night-light sections in row from opposite end of normal power feed.





PEERLESS





Features

Pure, low-profile oval form.

Rugged, one-piece, cold-rolled-steel construction.

Softshine® optical system provides uniform ceiling illumination, a wellcontrolled direct lighting component and remarkable luminaire brightness control.

Intended Use

The Prima® I/D provides excellent ceiling uniformity and visual comfort while adding the dimensionality that comes from a well controlled direct lighting component. Designed to offer highquality lighting for general office, school and library installations.

All Prima® fixtures share the same gracefully rounded shape and can be combined on the same project, providing an additional level of versatility where needs vary.

Fasy-to-maintain Achroma® specular baffle finish provides precise light distribution while exhibiting a soft, uniform louver

Electrical quick connectors facilitate installation and joining

Fine textured white paint standard. Consult factory for special finish

requirements.

Flectrical Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special

circuiting, consult factory. Lamps are included.

Fixture Length 4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length, add 1/2" for each end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

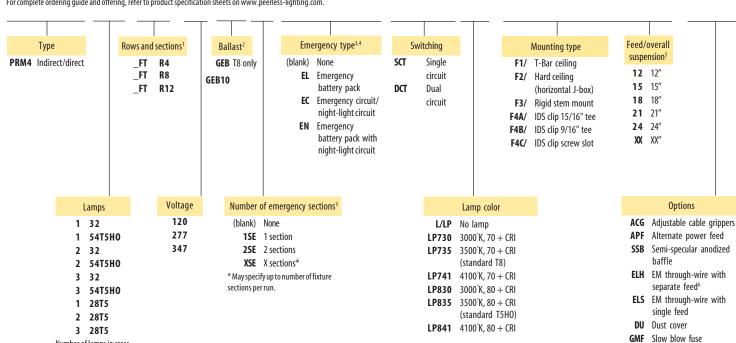
Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Example: PRM4 1 32 40FT R12 347 GEB 2SE EL SCT LP735 F1/24

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

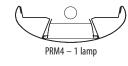




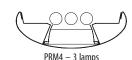
Number of lamps in cross

section and lamp type.

LUMINAIRE CROSS SECTIONS (9" x 3" Nominal)







www.peerless-lighting.com

1 Specify nominal row length in 4' increments. R4/ R8/R12 indicates maximum length of section. Example: 40FT R12 is a 40' run with a 12' maximum section length.

GLR Fast blow fuse

CMG Cord manager NYC New York City code

- 2 GEB = genericelectronic ballast, < 20% THD. GEB10 = generic electronic ballast, <10% THD. Consult factory for dimming options.
- Optional.
- EL, EN and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless EL Hoption is specified. EL not available in 347V.
- 5 Suspension length is measured from finished ceiling to bottom of fixture.
- 6 For single feed of all emergency or night-light sections in row from opposite end of normal power feed.

Features

Peerlite HOT-5® cove lighting offers a compact, easy-to-install fixture that fits into smaller architectural cavities.

HOT-5® cove projects a wide distribution of illumination from fewer, smaller, higher-efficiency lamps, transforming a ceiling into a source of pure, diffuse light, virtually eliminating all hot spots and glare in the space.

High-performance HOT-5® cove lighting system creates indirect ambient illumination from a concealed source.

Utilizes energy-efficient, T5 highoutput lamps.

Die-formed white reflector and

micro-prismatic specular acrylic diffusing lens provide uniform ceiling illumination, superior visual comfort and remarkably high light levels at the work plane.

Ultra-shallow depth permits use in narrow architectural cavities.

Rugged, one-piece, cold-rolled steelhousing.

HOT-5® luminaire technology significantly enhances the benefits of the T5 high output lamp.

Electrical

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. For special circuiting, consult factory. T5 lamps are included.

Fixture Length

Available in nominal 2', 3', 4' and 8' sections only. Consult factory for addtional lengths.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

For complete ordering guide and offering, refer to product specification sheets on www.peerless-lighting.com.

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Nominal I	uminaire				
leng	length1				
U2	2'				
U3	3'				
U4	4'				
U8	8'				

Voltage
120
277
347

Ballast ²
GEB10

Emergency type ^{3,4}			
(blank)	None		
EL	Emergency		

battery pack **EC** Emergency circuit/night-light circuit

EN Emergency battery pack with night-light circuit

Lamp color

L/LP No lamp **LP830** 3000°K, 80 + CRI 3500°K, 80 + CRI LP835 (standard)

LP841 4100°K, 80 + CRI

Options

Example: HCM5 1 54T5H0 U8 277 GEB10 LP835

ELH EM through-wire with separate feed⁵

ELS EM through-wire with single feed

DU Dust cover

GMF Slow blow fuse

GLR Fast blow fuse

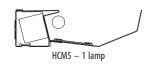
NOTES:

- 1 Actual length of 4' nominal fixture is 46¹/₂" and 8' nominal fixture is 93". Consult factory for availability of 2' and 3' nominal luminaires
- $2 \quad \mathsf{GEB10} = \mathsf{generic}\,\mathsf{electronic}\,\mathsf{ballast}, < \!10\%\,\mathsf{THD}.$ Consult factory for dimming options.
- 3 Optional.

PSG9

- 4 EL and EC not available concurrently.
- 5 For single feed of all emergency or night-light $sections in row from \, opposite \, end \, of \, normal \, power \,$ feed.

LUMINAIRE CROSS SECTION (6" x 2" Nominal)



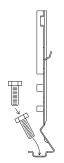


PEERLESS

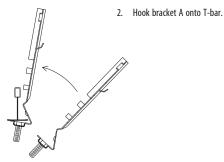
Installation Guide

All Peerless and Peerlite modular luminaires utilize this easy mounting system. Shown below is a representative installation guide. Mounting instructions for specific products are included with each luminaire and also may be ordered through your Lithonia Lighting sales representative.

Mount on the grid...

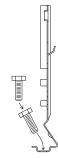


Insert 1/4-20 x 3/4" bolt into bracket A (#MP-1997).

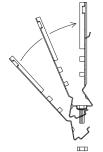


Hook bracket B (#MP-1996) onto bracket A. Screw brackets together. Secure bracket assembly to structure above.

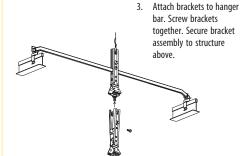
...or off the grid



- Insert 1/4-20 x 3/4" bolt* into bracket A (#MP-1997).
 - * For special ceiling systems, may need to use 1/4-20 x 1" bolt (by others).



- 2. Hook bracket B (#MP-1996) onto bracket A.
 - Secure with 1/4-20 hex nut. Do not tighten.

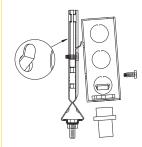


Create support locations

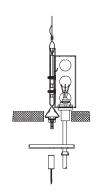


- 1. Place 2" canopy flush with ceiling tile.
- Thread upper cable retainer onto 1/4-20 bolt.

Create feed locations



- Attach bushing and Greenfield connector to
- Hang J-box on bracket tab.
- Screw J-box to bracket assembly.



- Insert feed cord through Greenfield connector and into J-box; attach strain relief.
- Place canopy flush with ceiling tile.
- Thread upper cable retainer onto 1/4-20 bolt.

Secure the structure

STANDARD NON-SEISMIC SINGLE LOOPED WIRE



SEISMIC 3-WIRE PERPENDICULAR & ANGLED



SEISMIC 4-WIRE ANGLED



SEISMIC 3-WIRE ANGLED



All top-mounting brackets must be secured to the building structure. Shown are standard support configurations. Check with your local code authority as to which applies to your specific application.

IMPORTANT NOTE:

 $Always\,use\,UBC\text{-}approved\text{-}gauge\,wire.$

Hang and join the fixtures

Note: Hang fixtures prior to joining.

Hanging a run

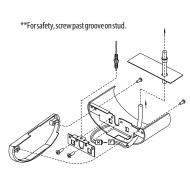
- 1. Attach hanger brackets (included in mounting kits) onto each end of first fixture
- Screw cable stud into each hanger.**
- Quick-connect power feed and insert through fixture.
- Hang next fixture by attaching mounting bracket to non-joining end and screwing cable stud into hanger bracket.
- * Hanger bracket at end(s) of complete run must be secured with screw provided in endcap kit.

NOTE: Hang fixtures prior to joining.

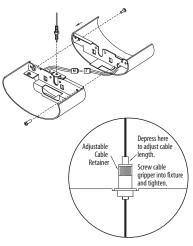
Joining the fixtures

- 1. After hanging fixtures, attach quick-connects.
- Align fixture tabs.
- Bolt fixtures together.

 ${\small **For safety, screw past groove on stud.}$

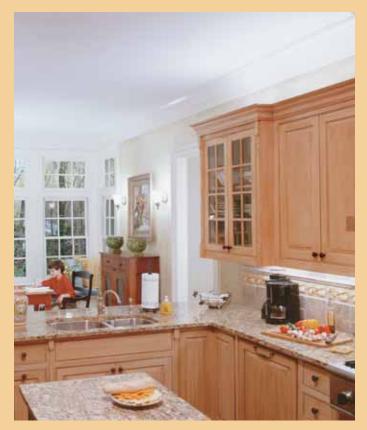


Screw provided in endcap kit.



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LITHONIA LIGHTING®

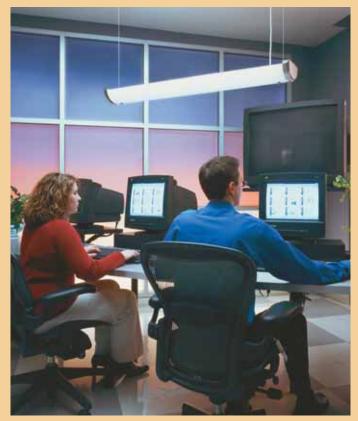


Decorative Fluorescent

Lithonia Lighting is changing the way you look at decorative fluorescent fixtures with bold new styles and with energy-saving technology. Our decorative line includes a comprehensive selection of models that are ENERGY STAR® qualified. Lithonia is proud to be an ENERGY STAR® partner – introducing products that meet energy-savings guidelines to help consumers save money and the environment.

The decorative line includes a comprehensive selection of models, ranging from rich solid oak frames to durable steel with various styles of acrylic diffusers. Many styles are suitable for both residential and light commercial use. A variety of fluorescent lamps and ballast options is available.





www.lithonia.com

LITHONIA DECORATIVE FLUORESCENT

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Ceiling	Mount

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Vanity

Vanity Wall Brackets 193

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Options and Accessories 201

LITHONIA LIGHTING

Sheffield

Intended Use

The Sheffield family of lighting fixtures provides general illumination in residential and commercial applications. Ideal for use in dining areas, kitchens, foyers, hallways and bathrooms.

Features

A distinctive traditional style with black bronze finish and satin-etched, swirled white glass diffuser

Flush / Semi-Flush – Matching black bronze finish hardware included for flush or semi-flush mounting. Diffuser is secured to decorative trim ring with a decorative matching black bronze finish finial for easy cleaning and maintenance. Available in three sizes.

Pendant – Matching black bronze finish hardware included for pendant or semi-flush mounting.

Diffuser sits in a decorative trim ring for clean appearance and for easy cleaning and maintenance

Includes 3500K double twin tube (flush/semiflush) or triple-tube (pendant) compact fluorescent lamps for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

All mounting hardware included.

Listings

UL Listed to US and Canadian safety standards.







Example: 11780 BZ

Matching wall mounted fixtures; see pages 193 & 198.

Ordering Information

Model number ^{1,2}					
Flush or semi-flush					
11780 BZ	11" diameter, (2) 13W DTT lamps				
11782 BZ	13" diameter, (2) 18W DTT lamps				
11784 BZ	15" diameter, (2) 26W DTT lamps				
Pendant ³					
11786 BZ	23" diameter, (3) 18W TRT lamps				

Availability and Dimensions						
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Flush depth* in. (cm)	Semi-flush depth* in. (cm)	
11" Flush	11780 BZ	(2) 13W DTT (G24q-1)	11 (27.9)	47/8 (12.4)	123/4 (32.4)	
13" Flush	11782 BZ	(2) 18W DTT (G24q-2)	13 (33.0)	5 ³ / ₈ (13.6)	13 (33.0)	
15" Flush	11784 BZ	(2) 26W DTT (G24q-3)	15 (38.2)	6 (15.2)	133/4 (34.9)	
23"Pendant ³	11786 BZ	(3) 18W TRT (G24q-2)	223/4 (57.8)	N/A	371/2 (95.2)	

^{*} Extension from ceiling

- $1\quad 3500 K\,compact\,fluorescent\,lamps\,included.$
- 2 For use with non-dimmable switches only.
- 3 3' of chain and 10' of wire provided.

Provides general illumination in residential and light commercial applications. Ideal for use in dining areas, kitchens, bathrooms, foyers and hallways.

Features

Saturn – Contemporary fixtures with brushed nickel on twin steel rings and finials. Durable, milk white acrylic diffuser provides wide spread, uniform illumination. Finials provide easy access and maintenance.

Pristine – Clean art deco fixtures with brushed nickel housing. Satin-etched glass diffuser provides wide spread, uniform illumination. Diffuser twist-locks into housing for a hardware free look and provides easy access and maintenance.

Includes 26W 3500K double twin tube compact fluorescent lamp(s) for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.

Saturn Pristine





Example: **11750 BN**

Ordering Information

	Model number ^{1,2}
<u>Saturn</u>	
11750 BN	13" diameter, (1) 26W DTT lamp
11752 BN	16" diameter, (2) 26W DTT lamps
<u>Pristine</u>	
11734 BN	14" diameter, (1) 26W DTT lamp
11736 BN	16 ¹ / ₂ " diameter, (2) 26W DTT lamps

- 1 3500 K compact fluorescent double twin tube lamps included.
- 2 For use with non-dimmable switches only.

		Availability a	nd Dimensions		
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Flush depth* in. (cm)	Semi-flush depth* in. (cm)
13" Saturn	11750 BN	(1) 26W DTT (G24q-3)	121/2 (31.8)	27/8 (7.3)	81/4 (21.0)
16" Saturn	11752 BN	(2) 26W DTT (G24q-3)	16 (40.6)	31/8 (7.9)	81/2(21.6)
14" Pristine	11734 BN	(1) 26W DTT (G24q-3)	14 (35.6)	4 ^{1/} 2 (11.4)	101/2 (26.6)
16 ¹ / ₂ " Pristine	11736 BN	(2) 26W DTT (G24q-3)	16 ^{1/2} (41.9)	5 (12.7)	103/4 (27.3)

 $^{^{\}star}$ Extension from ceiling.

Meloe



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Contemporary style fixture has frosted white glass diffuser with melon pattern design that disperses wide-spread, even illumination. Surrounding the fixture, a partially etched clear glass ring with three polished nickel finials has a glowing effect when illuminated.

Includes one 22W and one 32W, 3500K T9

circline fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.

Example: 11798 GM R2

Ordering Information



NOTES:

- 1 One 22W and one 32W ,3500K T9 circline fluorescent lamp included.
- 2 For use with non-dimmable switches only
- 3 Resale packs must be ordered in increments of 2 (R2).

	Av	ailability and Dimensions	5	
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Depth* in. (cm)
Meloe	11798 GM R2	(1) 22W & (1) 32W T9	21 (53.34)	45/8(10

^{*} Extension from ceiling

Cosmos



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Frosted white glass diffuser is surrounded by choice of cobalt blue or amber frosted glass ring. The contemporary style fixture provides plenty of wide-spread, even illumination. The colored glass softly glows when illuminated and is accented by three polished nickel finials.

Includes one 22W and one 32W, 3500K T9

circline fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

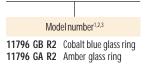
ENERGY STAR® qualified.

Listings

Example: 11796 GB R2

UL Listed to US and Canadian safety standards.

Ordering Information



- 1 One 22W and one 32W, 3500KT9 circline fluorescent lamps included.
- 2 For use with non-dimmable switches only.
- 3 Resale packs must be ordered in increments of 2 (R2).

Availability and Dimensions					
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Depth* in. (cm)	
Cobalt Blue Glass Ring	11796 GB R2	(1) 22W & (1) 32W T9	195/8 (49.85)	55/16 (13.5)	
Amber Glass Ring	11796 GA R2	(1) 22W & (1) 32W T9	195/8 (49.85)	55/16 (13.5)	

^{*} Extension from ceiling.



up to 74¹/₂ (189.23)

up to 74¹/₂ (189.23)

up to 74¹/₂ (189.23)

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Acorn – A contemporary soft curve design in a cobalt blue, amber or white color, frosted glass with a brushed nickel cap. The acorn is suspended from sleek, brushed nickel canopy with silver cord adjustable to height preference. Three-fixture clusters available in white glass only.

Tulip – Tulip-shape, white frosted glass with clear glass drop point provides up and downlight effects. The tulip is suspended from sleek, brushed nickel canopy with silver cord adjustable to height preference. Available in single- or three-fixture cluster.

Lily – Inverted-tulip-shape white frosted glass with brushed nickel cap provides a downlight effect. The inverted tulip is suspended from sleek, brushed nickel canopy with silver cord adjustable to height preference. Available in single- or three-fixture cluster.

Includes 13W, 3500K triple tube compact fluorescent lamp(s) for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.









85/8 (21.91)

85/8 (21.91)

8^{5/8} (21.91)

Ordering Information

1					
Model number ^{1,2}					
Single - cobalt blue					
Single - amber					
Single - white					
Cluster - white					
Single - white					
Cluster - white					
Single - white					
Cluster - white					

			Exam	ole: 11994 GB
	Ava	ailability and Dimension	ons	
Description	Number of lamps	Fixture Diameter in. (cm)	Fixture Depth in. (cm)	Length in. (cm)
Acorn Single	(1) 13W TRT (G24q-1)	4 ^{7/} 8 (10.16)	8 (20.32)	up to 74 (187.96)
Acorn Cluster	(3) 13W TRT (G24q-1)	13 ^{1/8} (33.02)	8 (20.32)	up to 74 (187.96)
Tulip Single	(1) 13W TRT (G24q-1)	6 (15.24)	8 ^{5/} 8 (21.91)	up to 74 ¹ / ₂ (189.23)

14^{5/8} (35.56)

14^{5/8} (35.56)

6 (15.24)

Single fixture can opy diameter 4-7/8 (10.16). Cluster fixture can opy diameter 9-7/8 (22.86).

(3) 13W TRT (G24q-1)

(1) 13W TRT (G24q-1)

(3) 13W TRT (G24q-1)

NOTES

- 1 13W 3500K compact fluorescent triple tube lamp(s) included.
- 2 For use with non-dimmable switches only



Tulip Cluster

Lily Single

Diveli



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Layered opal glass shade provides even distribution of light with a contoured upward shape. Decorative diffuser has chrome edging and finials on a unique, holographic-like pattern the mimics fluid movement.

Includes one 55W, 2C 3500K fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

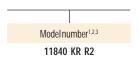
ENERGY STAR® qualified.

Listings

Example: 11840 KR R2

UL Listed to US and Canadian safety standards.

Ordering Information



NOTES

- 1 One 55W, 2C 3500K fluorescent lamp included.
- 2 For use with non-dimmable switches only.
- 3 Resale packs must be ordered in increments of 2 (R2).

		Availabilit	y and Dimensions		
Description	Model number	Number of lamps ¹	Top diameter in. (cm)	Bottom diameter in. (cm)	Depth* in. (cm)
Diveli	11840 KR R2	(1) 55W 2C	18 (45.72)	125/8 (32.2)	41/2 (11.43)

^{*} Extension from ceiling

Illunic



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Etched glass diffuser provides even distribution of light and is edged with a chrome ring and three chrome finials. Decorative surround is made of sturdy, easy-to-clean polymer with an even, two-tone line pattern and matching cloth edging.

Includes one 55W 2C 3500K fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

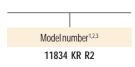
ENERGY STAR® qualified.

Listings

Example: 11834 KR R2

UL Listed to US and Canadian safety standards.

Ordering Information



NOTES:

- 1 One 55W, 2C 3500K fluorescent lamp included.
- $2\quad \text{For use with non-dimmable switches only}.$
- 3 Resale packs must be ordered in increments of 2 (R2).



 $^{^*\,} Extension from ceiling.$

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Etched glass diffuser provides even distribution of light and has a center chrome finial as a focus point. Decorative surround has silver edging on a unique, holographic-like pattern that impresses the eye.

Includes one 22W and one 32W, 3500K T9 circline fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

ENERGY STAR® qualified.

Listings

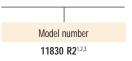
UL Listed to US and Canadian safety standards.



Example: 11830 R2



Ordering Information



		Availability and Dimension	ns	
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Depth in. (cm)
Vibe	11830 R2	(1) 22W & (1) 32W T9	173/4 (45.08)	5 (12.70)

NOTES:

- 1 One 22W and one 32W, 3500K T9 circline fluorescent lamp included
- 2 For use with non-dimmable switches only.
- 3 Resale packs must be ordered in increments of 2 (R2).

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in offices and all rooms in the home.

Features

Stay-white pleated polymer diffuser provides even distribution of light. It has a unique shape and intricate accordion-style design. Clear glass decorative with chrome finial has slivers of glass dispersed throughout for a gleaming effect.

Includes one 32W and one 40W, 3500K T9 circline fluorescent lamp for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

Available in resale packs of two only.

ENERGY STAR® qualified.

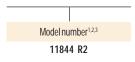
Listings

UL Listed to US and Canadian safety standards.

Origami



Ordering Information

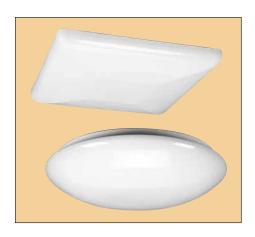


- 1 One 32W and one 40W, 3500KT9 circline fluorescent lamp included.
- 2 For use with non-dimmable switches only.
- 3 Resale packs must be ordered in increments of 2 (R2).

		Availability and Dimension	ins	
Description	Model number	Number of lamps ¹	Diameter in. (cm)	Depth in. (cm)
Origami	11844 R2	(1) 32W & (1) 40W T9	215/8 (54.93)	6 ⁷ / ₈ (17.46)



Low Profile



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in closets, laundry areas and pantries.

Features

Durable, milk white acrylic diffuser provides wide spread, uniform illumination. Both round or square models available in three sizes. Models available for circline and compact fluorescent lamps. Suitable for ceiling or wall mounting.

Utilizes double twin tube compact fluorescent or T9 circline fluorescent lamp(s) for energy efficiency, superior color rendering and long life (not included).

Description

Round 11"

Round 14"

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.

in. (cm)

11 (27.94) dia.

133/4 (34.92) dia.

19¹/₄ (48.9) dia.

14³/₄ (37.47) sq.

19³/₄ (50.17) sq.

12 (30.48) sq.

Example: FMLR 22

Depth*

in. (cm)

31/4 (7.62)

 $3^{1/2}$ (8.89)

35/8 (9.21)

31/4 (7.62)

33/8 (8.57)

35/8 (9.62)

Ordering Information

	Model number ¹
Round 11" diameter	
FMLR 22	(1) 22W circline
FMLR11 2 13DTT	(2) 13W double twin tubes
Round 14" diameter	
FMLR 54	(1) 22W & (1) 32W circline
FMLR14 2 18DTT	(2) 18W double twin tubes
Round 19" diameter	
FMLR 72	(1) 32W & (1) 40W circline
FMLR19 3 26DTT	(3) 26W double twin tubes
Square 12" square	
FMLS 22	(1) 22W circline
FMLS12 2 13DTT	(2) 13W double twin tubes
Square 15" square	
FMLS 54	(1) 22W & (1) 32W circline
FMLS15 2 18DTT	(2) 18W double twin tube
Square 20" square	
FMLS 72	(1) 32W & (1) 40W circline
FMLS20 3 26DTT	(3) 26W double twin tubes

NOTES:

Round 19"	(1) 32W and (1)	I) 40W T9 or	(3) 26W D	TT (G24q-3)			
Square 12"	(1) 22W T9 or	(3) 13W DTT	(G24q-1)				
Square 15"	(1) 22W and (1)	I) 32W T9 or	(2) 18W D	TT (G24q-2)			
Square 20"	(1) 32W and (1)	I) 40W T9 or	(3) 26W D	TT (G24q-3)			
*Extensionfromceiling.							
			Lamp	Options			
	One	Two	Onα	Two			

(1) 22W T9 or (2) 13W DTT (G24q-1)

(1) 22W and (1) 32W T9 or (2) 18W DTT (G24q-2)

Standard lamp¹

configuration

Lamp Options								
Series	One 13W DTT	Two 13W DTT	One 18W DTT	Two 18W DTT	Three 18W DTT	One 26W DTT	Two 26W DTT	Three 26W DTT
FMLR11		A						
FMLR14				A				
FMLR19								A
FMLS12		A						
FMLS15				A				
FMLS20								A

Availability and Dimensions

¹ Lamps not included. Consult factory for optional lamp configurations.

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, offices, utility areas or closets.

Features

Durable, milk white acrylic diffuser provides widespread, uniform illumination. Low-profile styling complements a variety of decors.

Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included).

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

Listinas

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Cirrus®

Example: 11602RE



Ordering Information

N	Model number	-1	R	esidential ballast ²	
11602 11604	1'x4' (2) 32V 1'x4' (4) 32V		(blank) Other voltage and ballast types available. Specify in Ballast/voltage. RE 120 volt residential electronic ballast (standard)		
		Availabili	ty and Dimensi	ions	
Nominal size	Model number	Number of lamps	Width in. (cm)	Length in. (cm)	Dept in. (i
1x4	11602	(2) 32W T8	9 ⁷ /8 (24.9) 48 ⁵ / ₈ (123.5)	31/2
1x4	11604	(4) 32W T8	9 ⁷ /8 (24.9) 48 ⁵ / ₈ (123.5)	31/2
*Extension fro	om ceiling.				



Ballast/voltage4 (blank) RE ballast fixtures only fixtures only MVOLT Multi-volt **120** 120V **277** 277V

347 347V Others available; consult factory.

Options

GEB Electronic ballast, <20% THD GEB10IS T8 electronic ballast, <10% THD, instant start **GEB10RS** T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified5

NOM NOM Certified

See page 201 for ballasts and other options and accessories.

NOTES:

- 1 Lamps not included.
- 2 RE electronic ballast for use with non-dimmable switches only.
- No designation for lamp type is required on RE ballast fixtures.
- No designation for ballast/voltage type is required on RE ballast fixtures.
- 5 CSA standard on RE ballast fixtures.

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, offices, utility areas or closets.

Features

Durable, milk white acrylic diffuser provides widespread, uniform illumination. Low-profile styling complements a variety of decors. Clip-on diffuser provide easy access and maintenance.

Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included).

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Litepuff®



Ordering Information

Model number

10640 1'x4' (2) 32W T8 lamps

10651	1 ¹ / ₂ 'x2' (4) 17\ 2'x2' (2) 31W 1 ¹ / ₂ 'x4' (4) 32\	T8-U lamps	RE	Ballas 120 vo	available. Specit t/voltage. olt residential el t (standard)	,
		Availability an	d Dimensi	ons		
Nominal size	Model number	Number of lamps	Width in. (cm)	Length in. (cm)	Depth* in. (cm)
1x4	10640	(2) 32W T8	11 ¹ / ₄ (2	8.6)	511/2 (130.8)	5 ^{1/} ₂ (14.0)
1 ¹ / ₂ x2	10641	(4) 17W T8	16 ⁵ / ₈ (4	2.2)	271/2 (69.9)	5 ^{1/} ₂ (14.0)
2x2	10651	(2) 31W T8-U31 or (2) 31W T8-U316	27 (68.6	b)	27 ³ / ₈ (69.3)	5 ¹ / ₂ (14.0)
1 ¹ / ₂ x4	10642	(4) 32W T8	16 ⁵ / ₈ (4	2.2)	511/2 (130.8)	5 ^{1/} ₂ (14.0)
*Extension f	from ceiling.					

Residential ballast²

Other voltage and ballast

Lamp

(blank) RE ballast fixtures only 17 17W T8 (2' fixtures only) **U31** 31W T8-U31 (15/8" leg)4

U316 31W T8-U316 (6" leg)4 32 32W T8 (4' fixtures only)

Ballast/voltage5

(blank) RE ballast fixtures only MVOLT Multi-volt **120** 120V **277** 277V **347** 347V

Others available: consult factory.

Example: 10640RE

Options GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, <10% THD, instant start **GEB10RS** T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified6

NOM NOM Certified

See page 201 for ballasts and other options and accessories.

- 1 Lamps not included.
- 2 RE electronic ballast for use with non-dimmable switches only.
- No designation for lamp type is required on RE ballast fixtures.
- Only available with 2'x2' fixtures (U31 also can be ordered on RE ballast 2x2
- No designation for ballast/voltage type is required on RE ballast fixtures.
- CSA standard on RF ballast fixtures.



Metro



Availability and Dimensions							
Nominal size	Model number	Number of lamps	Width in. (cm)	Length in. (cm)	Depth* in. (cm)		
1x2	11722	(2) 17W T8	77/8 (24.9)	241/2 (62.2)	31/2 (8.9)		
1x4	11742	(2) 32W T8	77/8 (24.9)	481/2 (123.3)	31/2 (8.9)		
* Extension	from ceiling	1					

Intended Use

Innovative design that provides general illumination in residential and light commercial applications.

Features

Unique light source from a distinctly attractive fixture. Creates soft non-glare ambient light through a contemporary perforated white aluminum diffuser. Can be cable suspended (kit included) or mounted flush to ceiling.

Utilizes T8 linear lamps for energy efficiency, su-

perior color rendering and long life (not included).

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Model number¹

11722 1'x2' (2) 17W T8 lamps
11742 1'x4' (2) 32W T8 lamps
Trimline
10650 1'x2' (2) 17W T8 lamps
10654 1¹/2'x4' (4) 32W T8 lamps
10654 1¹/2'x4' (4) 32W T8 lamps
10654 1types
available. Specify in
Ballast/voltage.
RE 120 volt residential
electronic ballast
(standard)

NOTES:

- 1 Lamps not included.
- $2\quad RE\,electronic\,ballast\,for\,use\,with\,non-dimmable\,switches\,only.$
- $3 \quad \text{No designation for lamp type is required on RE ballast fixtures}.$
- 4 No designation for ballast/voltage type is required on RE ballast fixtures. 5 CSA standard on RE ballast fixtures.

Ballast/voltage⁴
(blank) RE ballast fixtures only
MVOLT Multi-volt
120 120V
277 277V
347 347V
Others available; consult factory.
Lamp³

(blank) RE ballast fixtures only

17 17W T8 (2' fixtures only) **32** 32W T8 (4' fixtures only)

Options

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, ≤10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start

CSA CSA Certified⁵

NOM NOM Certified

Seepage 201 forballasts and other options and

Example: 11722RE

Black Bronze Finished Ends

Rigby



Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, office, utility areas or closets.

Features

Traditional style fixture with cast ends in a black bronze finish with matching finials. Durable, milk white acrylic diffuser provides wide spread, uniform illumination. Finials provide easy access and maintenance.

Utilizes T8 linear lamp(s) for energy efficiency, superior color rendering and long life (not included).

Standard with residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

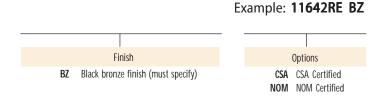
Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Residential ballast² Model number1 1' x 4', 2 lamps RE Residential grade electronic T8 (standard) 11642 11/2' x 4', 4 lamps 11644 Availability and Dimensions Width Nominal Model Depth* Number Length number of lamps in. (cm) in. (cm) in. (cm) 1x4 11642RE (2) 32W T8 111/4 (28.6) 51³/₄ (131.5) $3^{1}/_{2}$ (8.9) $1^{1}/_{2}x4$ 11644RE (4) 32W T8 $15^{1}/_{2}$ (39.4) 513/4(131.5) $3^{1}/_{2}$ (8.9)

* Extension from ceiling.



- 1 Lamps not included.
- 2 For use with non-dimmable switches only.



LITHONIA DECORATIVE FLUORESCENT

Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, offices, utility areas or closets.

Features

Cambridge - Solid wood frame accented with popular crown molding design in finished oak, unfinished oak, white, maple and off white. Durable, milk white acrylic diffuser provides wide spread, uniform illumination, with unique flush mount system to eliminate light leaks.

Dura-Steel - Versatile, baked white enamel finished, rugged steel frame with durable milk white acrylic diffuser provides wide spread, uniform illumination.

Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included).

Residential-grade electronic ballast (120 volt, 60Hz) ensures no flickering and guiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Cambridge **Dura-Steel**



Lamp⁴

fixtures only

fixtures only)

17W T8 (2'

(15/8" leq)5

U31 31W T8-U31

(blank) RE ballast



Ordering Information

Model number¹

Cambridge

11430 1'x4' (2) 32W T8 lamps 11431 2'x2' (2) 31W T8-U lamps

11432 11/2'x4' (4) 32W T8 lamps

Dura-Steel

11231 1'x2' (2) 17W T8 lamps

11232 1'x4' (2) 32W T8 lamps 11235 2'x2' (2) 31W T8-U lamps

11233 11/2'x4' (4) 32W T8 lamps

Residential ballast²

(blank) Other voltage and ballast types available. Specify in Ballast/voltage.

120 volt residential electronic ballast (standard)

U316 31W T8-U316 (6" leg)5 32W T8 (4'

fixtures only) Finish

OA Oak3 UNFIN Unfinished³

> WH White MA Maple **OW** Off-white³

Ballast/voltage6

(blank) RE ballast fixtures only

MVOLT Multi-volt **120** 120V **277** 277V

347 347V Others available; consult factory.

Options

Example: 11430RE OA

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, \leq 10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start

CSA Certified⁷ NOM NOM Certified

See page 201 for ballasts and other options and accessories.

- Lamps not included.
- 2 RE electronic ballast for use with non-dimmable switches only.
- 3 Available on Cambridge fixtures only.
- No designation for lamp type is required on RE ballast fixtures.
- Only available with 2'x2' fixtures (U31 also can be ordered on RE ballast 2x2
- No designation for ballast/voltage type is required on RE ballast fixtures.
- CSA standard on RE ballast fixtures.

Availability and Dimensions							
Nominal size	Model number	Number of lamps	Width in. (cm)	Length in. (cm)	Depth* in. (cm)		
			Cambridge				
1x4	11430	(2) 32W T8	15½ (39.4)	53 ¹ / ₈ (134.9)	4 ¹ / ₈ (10.5)		
2x2	11431	(2) 31W T8-U31 or (2) 31W T8-U316	29 (73.6)	29 (73.6)	4 ¹ / ₈ (10.5)		
1½x4	11432	(4) 32W T8	20 ⁷ / ₈ (53.0)	531/8 (134.9)	4 ¹ / ₈ (10.5)		
			Dura-Steel				
1x2	11231	(2) 17W T8	101/2 (26.7)	24 (61.0)	4 (10.2)		
1x4	11232	(2) 32W T8	101/2 (26.7)	48 (121.9)	4 (10.2)		
1 ¹ / ₂ x4	11233	(4) 32W T8	16 (40.6)	48 (121.9)	4 (10.2)		
2x2	11235	(2) 31W T8-U31 or (2) 31W T8-U316	24 (61.0)	24 (61.0)	4 (10.2)		
* F							

^{*} Extension from ceiling.

www.lithonia.com, keywords: Cambridge and Dura-Steel



Designer Wood Frame

Intended Use

Provides general illumination in residential and light commercial applications.

Features

Models available in oak wood frame with a light oak finish. Mitered and splined at corners for a clean, finished appearance. Housing and frame packaged separately for protection during shipment.

Choice of matte white acrylic diffuser, wood grid with matte white acrylic diffuser or ½" plastic cube louvers in gold or silver that provides low

brightness and precise light control.

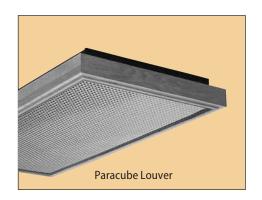
Offset mounted black fixture housing gives floating fixture appearance. White fixture housing available.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).







Ordering Information

Series¹

SWO Solid oak flat diffuser GWO Wood grid

WLOG Gold paracube louver WLOS Silver paracube louver

Fixture size²

124 1'x4' (2) 32W T8 linear lamps 124 2'x2' (2) 31W T8-U

lamps 2444 2'x4' (4) 32W T8 linear lamps

4464 4'x4' (6) 32W T8 linear lamps 4484 4'x4' (8) 32W T8

linear lamps

Lamp

U31 31W T8-U31 (15/8" leg)³ U316 31W T8-U316 (6" leg)³

32 32W T8 (4' fixtures only)

Ballast/voltage

MVOLT Multi-volt 120 120V 277 277V

347 347V

Others available; consult factory.

Options

Example: SWO1424 32 MVOLT

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, \leq 10% THD, instant start **GEB10RS** T8 electronic ballast, \leq 10% THD, rapid start

CSA CSA Certified

NOM NOM Certified

See page 201 for ballasts and other options and accessories.

NOTES

- 1 Black housing standard. For white housing, add WH to nomenclature. Example: SW01424 WH 32 MVOLT
- 2 Lamps not included.
- 3 Only available with 2'x2' fixtures.

Decorative frame and housing are packaged and ${\bf shipped}$ ${\bf separately}$ for protection.

Availability and Dimensions									
Nominal size	Series	Number of lamps ¹	Width in. (cm)	Length in. (cm)	Depth* in. (cm)				
1x4	SWO, GWO WLOG, WLOS	(2) 32W T8	15 (38.1)	51 ¹ / ₈ (129.9)	5 (12.7)				
2X2	SWO, GWO WLOG, WLOS	(2) 31W T8-U31 or (2) 31W T8-U316	27 (68.6)	51 ¹ / ₈ (129.9)	5 (12.7)				
2x4	SWO, GWO WLOG, WLOS	(4) 32W T8	27 (68.6)	51 ¹ / ₈ (129.9)	5 (12.7)				
4x4	SWO, GWO WLOG, WLOS	(6) 32W T8 or (8) 32W T8	51(129.5)	51 ¹ / ₈ (129.9)	5 (12.7)				

 $^{^{\}star}$ Extension from ceiling.



Provides general illumination in residential and light commercial applications.

Features

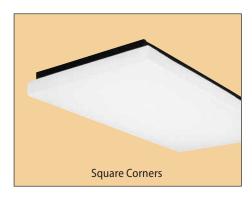
One piece rugged matte white molded acrylic diffuser provides widespread uniform illumination. Available in square or round corners.

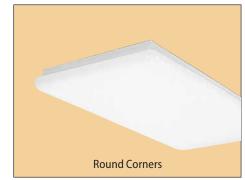
Offset mounted black fixture housing gives floating fixture appearance. White fixture housing available.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Designer Acrylic





Ordering Information

Series1 Fixture size² 1'x4' (2) 32W T8 linear lamps MP Square corners 1424 **CL** Round corners 2224 2'x2' (2) 31W T8-U lamps 2'x4' (4) 32W T8 linear lamps 2444 4464 4'x4' (6) 32W T8 linear lamps 4'x4' (8) 32W T8 linear lamps 4484

Lamp U31 31W T8-U31 (15/8" leg)3 U316 31W T8-U316 (6" leg)3

Ballast/voltage MVOLT Multi-volt **120** 120V **277** 277V 32 32W T8 (4' fixtures only) **347** 347V Others available; consult factory.

Options GEB Electronic ballast, <20% THD

Example: MP2224 32 MVOLT

GEB10IS T8 electronic ballast, \leq 10% THD, instant start **GEB10RS** T8 electronic ballast, ≤10% THD, rapid start

CSA Certified NOM NOM Certified

See page 201 for ballasts and other options and accessories.

NOTES:

- 1 Black housing standard. For white housing, add WH to nomenclature Example: MP1424 WH 32 MV0LT
- 2 Lamps not included.
- Only available with 2'x2' fixtures.

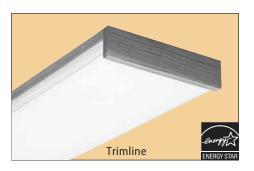
Acrylic diffuser and housing are packaged and shipped separately for protection.

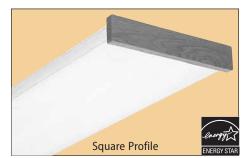
	Availability and Dimensions									
Nominal size	Series	Number of lamps ¹	Width in. (cm)	Length in. (cm)	Depth* in. (cm)					
1x4	MP (Square)	(2) 32W T8	131/2 (34.3)	50 (127.0)	43/4(12.1)					
IXT	CL (Round)	(2) 32W T8	141/2 (36.8)	51 (129.5)	53/4(14.6)					
01/0	MP (Square)	(2) 31W T8-U31 or (2) 31W T8-U316	25 ¹ / ₂ (64.8)	26 (66.0)	4 ³ / ₄ (12.1)					
2X2	CL (Round)	(2) 31W T8-U31 or (2) 31W T8-U316	26 (66.0)	27 ¹ / ₂ (69.9)	5 ³ / ₄ (14.6)					
2x4	MP (Square)	(4) 32W T8	251/2 (64.8)	50 (127.0)	43/4(12.1)					
LA I	CL (Round)	(4) 32W T8	26 (66.0)	51 (129.5)	53/4(14.6)					
4x4	MP (Square) CL (Round)	(6) or (8) 32W T8 (6) or (8) 32W T8	49 ¹ / ₂ (125.7) 50 ⁷ / ₈ (129.5)	50 (127.0) 51 (129.5)	4 ³ / ₄ (12.1) 5 ³ / ₄ (14.6)					

^{*} Extension from ceiling.



Decorative Wraparounds





Intended Use

Provides general illumination in residential and light commercial applications. Ideal for use in kitchens, offices, utility areas or closets.

Features

Durable, non-yellowing wraparound diffuser with choice of white acrylic or prismatic lens.

Square profile models feature solid oak ends. Trimline models feature solid oak ends and side rails.

Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included).

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with any other home electronics.

Trim line ENERGY STAR® qualified.

See companion vanity wall brackets, page 195.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Ordering Information

Model number¹

<u>Square profile</u> **10635** 1'x2' (2) 17W T8 lamps

10636 1'x4' (2) 32W T8 lamps

10637 1¹/₂'x4' (4) 32W T8 lamps

<u>Trimline</u>

10650 1'x2' (2) 17W T8 lamps

10652 1'x4' (2) 32W T8 lamps

10654 1¹/₂'x4' (4) 32W T8 lamps

Residential ballast²

(blank) Other voltage and ballast types available. Specify in Ballast/ voltage.

> RE 120 volt residential electronic ballast (standard)

Finish

OA Solid oak frame (must specify)

Diffuser (blank) Clear lens ACW White lens

Lamp³ (blank) RE ballast fixtures only

17 17W T8 (2' fixtures only) 32 32W T8 (4' fixtures only)

> **277** 277 **347** 347

fixtures only MVOLT Multi-volt 120 120V 277 277V

Ballast/voltage4

(blank) RE ballast

347 347V Others available; consult factory.

Example: 10652RE OA

0ptions

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, ≤10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start CSA CSA Certified⁵

NOM NOM Certified Seepage 201 for ballasts and other options and

- 1 Lampsnotincluded.
- 2 RE electronic ballast for use with non-dimmable switches only.
- $3 \quad \text{No designation for lamp type is required on RE ballast fixtures}.$
- $4\quad No \, designation for ballast/voltage \, type \, is \, required \, on \, RE \, ballast \, fix tures.$
- 5 CSA standard on RE ballast fixtures

		Availability	and Dimensions		
Nominal size	Model number	Number of lamps ¹	Width in. (cm)	Length in. (cm)	Depth* in. (cm)
1x2	10635, 10650	(2) 17W T8	81/2 (21.6)	251/2 (64.8)	27/8 (7.3)
1x4	10636, 10652	(2) 32W T8	81/2 (21.6)	491/2 (125.7)	27/8 (7.3)
1 ¹ / ₂ x4	10637,10654	(4) 32W T8	133/4 (34.9)	49 ¹ / ₂ (125.7)	27/8 (7.3)

^{*} Extension from ceiling



Ideal for use as task lighting in hospitality suites, bathrooms and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Sheffield - Distinctive decorative wall fixtures complement a range of decors. Traditional elegance in a satin-etched, swirled white glass fixture mounted on a decorative black bronze finish arm.

Includes 18W 3500K triple tube compact fluorescent lamps for energy efficiency, superior color rendering and long life.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.

Sheffield



Ordering Information

Model number 1,2 11790 BZ Two-light fixture Three-light fixture 11792 BZ 11794 BZ Four-light fixture

NOTES:

- 1 18W 3500K triple tube compact fluorescent lamps included
- 2 For use with non-dimmable switches only

	Availability and Dimensions								
Description	Model number	Number of lamps ¹	Width in. (cm)	Height in. (cm)	Depth* in. (cm)				
2-lamp	11790 BZ	(2) 18W TRT (G24q-2)	203/8 (51.6)	77/8 (20.0)	117/8 (30.2)				
3-lamp	11792 BZ	(3) 18W TRT (G24q-2)	28 ⁷ / ₈ (73.3)	$7^{7}/_{8}$ (20.0)	117/8 (30.2)				
4-lamp	11794 BZ	(4) 18W TRT (G24q-2)	371/4 (94.6)	77/8 (20.0)	117/8 (30.2)				

^{*}Extension from wall.

Intended Use

Ideal for use as task lighting in bathrooms, over hospital beds, hallways, stairwells and utility areas. Visually expands the space and creates a relaxing atmosphere.

Features

Decorative contoured distinctive linear design. UV stabilized one-piece white acrylic diffuser provides soft uniform illumination.

Utilizes two T8 linear fluorescent lamps for energy efficiency, superior color rendering and long life (not included).

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

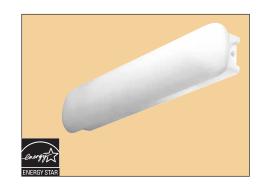
Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Litepuff

Example: 11890RE

Example: 11790 BZ



Ordering Information

	Model number 1,2	0
11890RE	2' fixture – (2) 17W T8 lamps	CSA
11891RE	3' fixture – (2) 25W T8 lamps	NOM
11892RE	4' fixture – (2) 32W T8 lamps	

		Availability ar	nd Dimensions		
Nominal size	Model number	Number of lamps ¹	Width in. (cm)	Height in. (cm)	Depth* in. (cm)
2'	11890RE	(2) 17W T8	27 (68.5)	5 (12.7)	4 (10.2)
3'	11891RE	(2) 25W T8	39 (95.3)	5 (12.7)	4 (10.2)
3′	11892RE	(2) 32W T8	51 (129.5)	5 (12.7)	4 (10.2)

^{*} Extension from wall.

- Lamps not included.
- 2 For use with non-dimmable switches only.

LITHONIA DECORATIVE FLUORESCENT

Architectural Contoured Diffusers

Intended Use

Ideal for use as task lighting over hospital beds, in bathrooms, hallways, stairwells and utility areas. Visually expands the space and creates a relaxing atmosphere.

Features

Decorative, contoured, distinctive linear designs complement a range of decors. UV stabilized one-piece diffusers provide soft uniform illumination. Suitable for vertical or horizontal mounting.

Scoop – Distinct corner mounting design. 2"-wide end caps offered in faux white marble with double inlaid brass trim.

Narrow Band – 1" wide end caps offered in a faux marbleized white or black finish on white acrylic

diffuser. 1" wide white end caps available on white fluted acrylic diffuser in a variety of finishes.

Wide Band – 2"-wide end caps offered in a variety of finishes. Double inlaid brass or chrome trim is available on end caps as an option.

Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included.)

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interfering with other home electronics.

ENERGY STAR® qualified.

Listings

UL Listed (standard). CSA Certifed or NOM Certified (see Options).







Ordering Information

Model number1

2' fixture — Uses (2) 17W T8 lamps

11893 Scoop

11928 Narrow band

11931 Narrow band fluted

11934 Wide band

3' fixture — Uses (2) 25W T8 lamps

11894 Scoop

11929 Narrow band

11932 Narrow band fluted

11935 Wideband

4' fixture — Uses (2) 32W T8 lamps

11895 Scoop

11930 Narrow band

11933 Narrow band fluted

11936 Wideband

Residential ballast²

blank) Other voltage and ballast types available. Specify in Ballast/voltage.

E 120 volt residential electronic ballast (standard)

Finish

WH White³
FMB Black marble⁴

FMW White marble⁵FMI Ivory marble⁵FMT Taupe marble⁵

FGG Gray marble⁵ FMW BI White marble⁶

Ballast/voltage⁷

(blank) RE ballast fixtures only

MVOLT Multi-volt

277 277V **347** 347V

Others available; consult factory.

Options

Example: 11893RE FMW BI

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, ≤10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start

CSA CSA Certified⁸

NOM NOM Certified

See page 201 for ballasts and other options and accessories.

NOTES:

1 Lamps not included.

- 2 RE electronic ballast for use with non-dimmable switches only
- 3 Not available with scoop fixtures.
- 4 Available with narrow band fixtures only
- 5 Available with wide band fixtures only
- 6 Available with scoop fixtures only.
- 7 No designation for ballast/voltage type is required on RE ballast fixtures.
- 8 CSA standard on RE ballast fixtures.

	Av	ailability and Di	mensions		
Nominal length	Model number	Number of lamps	Width in.(cm)	Height in.(cm)	Depth* in.(cm)
2'	11928, 11931, 11934, 11893	(2) 17W T8	25 ⁵ / ₈ (65.1)	41/8 (10.5)	47/8 (12.4)
3'	11929, 11932, 11935, 11894	(2) 25W T8	375/8 (95.6)	41/8 (10.5)	47/8 (12.4)
4'	11930, 11933, 11936, 11895	(2) 32W T8	495/8 (126.0)	4 ¹ / ₈ (10.5)	47/8 (12.4)

^{*} Extension from wall.



Ideal for use as task lighting in bathrooms, over hospital beds, hallways, stairwells and utility areas. Visually expands the space and creates a relaxing atmosphere.

Features

Available in decorative solid oak or baked white enamel finished steel end caps. UV stabilized, one-piece white acrylic diffusers provide soft uniform illumination. Suitable for vertical or horizontal mounting.

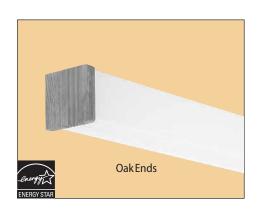
Utilizes T8 linear lamps for energy efficiency, superior color rendering and long life (not included.)

Residential-grade electronic ballast (120V, 60Hz) as standard ensures no flickering and quiet operation without interfering with other home elec-

ENERGY STAR® qualified.

UL Listed (standard). CSA Certified or NOM Certfied (see Options).

Wraparound **Diffusers**





Ordering Information

Model number¹

2' fixture

11847 Oak ends - uses (2) 17W T8 lamps 11862 Oak ends - uses (1) 17W T8 lamps

11852 White ends - uses (2) 17W T8 lamps **11872** White ends - uses (1) 17W T8 lamps

3' fixture

11848 Oak ends - uses (2) 25W T8 lamps

11863 Oak ends - uses (1) 25W T8 lamps **11853** White ends - uses (2) 25W T8 lamps

11873 White ends - uses (1) 25W T8 lamps

4' fixture

11849 Oak ends - uses (2) 32W T8 lamps

11864 Oak ends - uses (1) 32W T8 lamps

11854 White ends - uses (2) 32W T8 lamps

11874 White ends - uses (1) 32W T8 lamps

Residential ballast²

(blank) Other voltage and ballast types available. Specify in Ballast/

> 120 volt residential electronic ballast (standard)

Ballast/voltage3

(blank) RE ballast fixtures only

MVOLT Multi-volt

120 120V **277** 277V

347 347V Others available; consult factory.

Options

Example: 11847RE

GEB Electronic ballast, <20% THD

GEB10IS T8 electronic ballast, ≤10% THD, instant start

GEB10RS T8 electronic ballast, ≤10% THD, rapid start

CSA Certified4 NOM NOM Certified

See page 201 for ballasts and other options and accessories.

- 1 Lamps not included.
- 2 RE electronic ballast for use with non-dimmable switches only.
- $3 \quad \text{No designation for ballast/voltage type is required on RE ballast fixtures}.$
- 4 CSA standard on RE ballast fixtures.

			Availability and Dimens	sions		
Nominal		Model	Number	Width	Height	Depth*
length	Description	number	of lamps ¹	in. (cm)	in. (cm)	in. (cm)
2 ′	Oak ends	11847,11862	(2) or (1) 17W T8	251/2 (64.8)	5 (12.7)	43/4 (12.1)
2 ′	White ends	11852,11872	(2) or (1) 17W T8	24 (60.1)	45/8 (11.8)	41/2 (11.4)
3 ′	Oak ends	11848,11863	(2) or (1) 25W T8	371/2 (95.3)	5 (12.7)	43/4 (12.1)
3 ′	White ends	11853,11873	(2) or (1) 25W T8	36 (91.4)	45/8 (11.8)	41/2 (11.4)
4'	Oak ends	11849,11864	(2) or (1) 32W T8	491/2 (125.7)	5 (12.7)	43/4 (12.1)
4 ′	White ends	11854,11874	(2) or (1) 32W T8	48 (121.9)	45/8 (11.8)	41/2 (11.4)

^{*} Extension from wall



T5 Fluorescent



Intended Use

For use where accent or task lighting is needed. Ideal for cabinet lighting in kitchens, offices and bookcases.

Features

Slim profile design with on/off switch. Rugged powder coated steel housing. Acrylic diffuser provides soft wide spread illumination with ziplock design for easy maintenance and superior retention. Available in white or bronze finish.

Plug-in – No wiring required; fixture-to-outlet connector included with each fixture.

Direct wire – Top or back-side flush knockouts provided. Pre-installed poke-home connectors eliminate the need for wire nuts.

Three-wire 13" long connector cord with safety lock included with fixture for linking additional fixtures together.

Available in resale packs of six only.

ENERGY STAR® qualified.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

		Model Number ^{1,2}		
Length	White finish	Bronze finish	Lamp included ³	Packaged ⁴
12"	UC5D 8 120 LP R6	UC5D 8 120 BZ LP R6	(1) 8W T5	6
23"	UC5D 14 120 LP R6	UC5D 14 120 BZ LP R6	(1) 14W T5	6
34"	UC5D 21 120 LP R6	UC5D 21 120 BZ LP R6	(1) 21W T5	6

NOTES:

- 1 Maximum quantity of cabinet fixtures that can be connected from a single power source cannot exceed 540 watts from the lamp wattage.
- 2 Not for use with any dimming circuits.
- 3 T5 fluorescent lamp included.
- 4 Resale packs must be ordered in increments of 6 (R6).

Example: UC5D 8 120 LP R6

	Avai	lability and Dime	ensions	
Nominal	Lamp	Width	Length	Depth
length	included	in. (cm)	in. (cm)	in. (cm)
12"	(1) 8W T5	25/8 (6.7)	121/4 (31.1)	1 (2.5)
23"	(1) 14W T5	25/8 (6.7)	223/4 (57.8)	1 (2.5)
34"	(1) 21W T5	25/8 (6.7)	341/2 (87.6)	1 (2.5)

Bright White Illumination

12 Volt Xenon



Intended Use

For use where accent or task lighting is needed. Ideal for cabinet lighting in kitchens, offices and bookcases.

Features

Low profile design with high/low/off switch. White glass diffuser provides soft even illumination. Housing is constructed of heavy-gauge aluminum extrusion with injection-molded end caps. Available in white or bronze finish.

Plug-in – No wiring required, fixture-to-outlet connector included with each fixture.

Direct wire – Top or back-side flush knockouts provided. Pre-installed poke-home connectors eliminate the need for wire nuts.

Three-wire 13" long connector cord with safety lock included with fixture for linking additional fixtures together.

Includes 18W, 12V Xenon lamp(s) for bright white illumination and long life.

Stepdown 12V transformer (120V, 60Hz).

Available in resale packs of six only.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

		Model Number ^{1,2}		
Length	White finish	Bronze finish	Lamp included ³	Packaged⁴
9"	UCXD 1 120 CSW R6	UCXD 1 120 CSW BZ R6	(1) 18W 12V Xenon	6
12"	UCXD 2 120 CSW R6	UCXD 2 120 CSW BZ R6	(2) 18W 12V Xenon	6
18"	UCXD 3 120 CSW R6	UCXD 3 120 CSW BZ R6	(3) 18W 12V Xenon	6
24"	UCXD 4 120 CSW R6	UCXD 4 120 CSW BZ R6	(4) 18W 12V Xenon	6

NOTES:

- 1 Maximum quantity of cabinet fixtures that can be connected from a single power source cannot exceed 540 watts from the lamp wattage.
- 2 Not for use with any dimming circuits.
- 3 18W, 12V Xenon lamp(s) included.
- $4\quad \text{Resale packs must be ordered in increments of 6 (R6)}$

Example: UCXD 1 120 CSW R6

	Availabil	ity and Dimensi	ons	
Nominal	Lamp(s)	Width	Length	Depth
length	included*	in. (cm)	in. (cm)	in. (cm)
9"	(1) 18W, 12V Xenon	41/2 (11.4)	91/4 (23.5)	13/8 (3.5)
12"	(2) 18W, 12V Xenon	41/2 (11.4)	121/4 (31.1)	13/8 (3.5)
18"	(3) 18W, 12V Xenon	41/2 (11.4)	181/4 (46.4)	13/8 (3.5)
24"	(4) 18W, 12V Xenon	41/2 (11.4)	241/4 (61.6)	13/8 (3.5)

* Replacement lamps

UCX2LPR12

Resale packs must be ordered in increments of 12 (2 lamps per pack).



For use where accent or task lighting is needed. Ideal for cabinet lighting in kitchens, offices and bookcases.

Features

Low profile design with high/low/off switch. Features a rotatable, dual-level beam providing for bright efficient illumination where it is needed. White glass diffuser provides soft even illumination. Housing is constructed of heavy-gauge aluminum extrusion with injection-molded end caps. Available in white or bronze finish.

Plug-in - No wiring required; fixture-to-outlet

connector included with each fixture.

Direct wire - Top or back-side flush knockouts provided. Pre-installed poke-home connectors eliminate the need for wire nuts.

Three-wire 13" long connector cord with safety lock included with fixture for linking additional fixtures together.

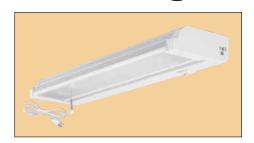
Includes 20W,120V Halogen lamp(s).

Available in resale packs of six only.

Listings

UL Listed to US and Canadian safety standards.

120 Volt Halogen



Example: UCHD 1 120 CSW R6

Ordering Information

		Model number ¹		
Length	White finish	Bronze finish	Lamp included ²	Packaged ³
9"	UCHD 1 120 CSW R6	UCHD 1 120 CSW BZ R6	(1) 20W, 120V Halogen	6
12"	UCHD 2 120 CSW R6	UCHD 2 120 CSW BZ R6	(2) 20W, 120V Halogen	6
18"	UCHD 3 120 CSW R6	UCHD 3 120 CSW BZ R6	(3) 20W, 120V Halogen	6
24"	UCHD 4 120 CSW R6	UCHD 4 120 CSW BZ R6	(4) 20W, 120V Halogen	6

NOTES:

- $1\quad Maximum quantity of cabinet fixture that can be connected from a single power$ source cannot exceed 540 watts from the lamp wattage.
- 2 20W, 120V halogen lamp(s) included.
- 3 Resale packs must be ordered in increments of 6 (R6).

	Availability	and Dimensi	ons	
Nominal	Lamp(s)	Width	Length	Depth
length	included*	in. (cm)	in. (cm)	in. (cm)
9"	(1) 20W, 12V Halogen	31/2 (8.9)	81/2 (21.6)	11/4 (3.2)
12"	(2) 20W, 12V Halogen	31/2 (8.9)	121/8 (30.8)	11/4 (3.2)
18"	(3) 20W, 12V Halogen	31/2 (8.9)	173/4 (45.1)	11/4 (3.2)
24"	(4) 20W, 12V Halogen	31/2 (8.9)	231/2 (59.7)	11/4 (3.2)

Replacement lamps

UCHD2LPR12

Resale packs must be ordered in increments of 12 (2 lamps per pack).

Allows for quick and easy direct wiring to the box. Then link fixtures into either end with cord or row connectors. Features snap-on cover, preinstalled poke-home wire connectors and mounting hardware.

Linkable cabinet lights come standard with a 13" connector cord. A 24" connector cord is available for longer length connections between fixtures.

Ordering Information

Model number1 UCD JB R12

Ordering Information



Row connectors allow continuous connections with minimal (1/8") spacing between fixtures. Side-by-side connections reduce shadow between fixtures for uninterrupted light across counter tops or work areas.

UC ERC R12 18" white cord cover keeps fixture-to-fixture

connector cords and cord-and-plugs hidden under cabinetry or shelving. Self-adhesive strip on upper side of cover adheres to most surfaces. Cord cover can be cut to accommodate shorter distances between fixtures.

Ordering Information

Ordering Information



Model number1

NOTES

1 Resale packs must be ordered in increments of 12 (R12).

www.lithonia.com, keyword: Halogen

Accessories

Splice Box



24" Cord Connector



Row Connector



Cord Cover





Sconces



Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

Sheffield – Traditional elegance in a satinetched, swirled white glass fixture mounted on a decorative black bronze finish arm.

Includes one 18W 3500K triple tube compact fluorescent lamp.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interference from other home electronics.

All mounting hardware included.

ENERGY STAR® qualified.

Romanesque – Faux alabaster diffuser for a clean-lined appearance in a choice of classic designs.

Romanesque Series, ADA compliant.

Requires two 13W TT compact fluorescent lamps, not included.

Uses class P, LPF, sound rating A ballast.

Listings

 ${\sf UL}\, {\sf Listed}\, to\, {\sf US}\, and\, {\sf Canadian}\, safety\, standards.$

Ordering Information

	Model number ¹
11788 BZ 11953 11954 11955	Sheffield Romanesque Translucent Shield Romanesque Translucent Quarter Sphere Romanesque Prong Shield

Materials				
Model	Trim	Diffuser		
11788 BZ	Black bronze	Satin-etched glass		
11953	Cast resin	Cast faux alabaster		
11954	Cast resin	Cast faux alabaster		
11955	Cast resin ²	Cast faux alabaster		

Example: 11788 BZ

Availability and Dimensions							
Model Lamps Width Height Depth* ADA Description number (not included) in. (cm) in. (cm) in. (cm) compliar							
Sheffield	11788 BZ	(2) 18W TRT (G24q-1)	7 ¹ / ₄ (8.1)	12 (30.5)	7 ⁷ / ₈ (19.5)	No	
Translucent Shield	11953	(2) 13W TT (G23-2)	11 ¹ / ₂ (29.2)	11 ¹ / ₂ (29.2)	4 (10.2)	Yes	
Quarter Sphere	11954	(2) 13W TT (G23-2)	16 ³ / ₄ (41.5)	8 ¹ / ₂ (21.6)	3 ³ / ₄ (9.5)	Yes	
Prong Shield	11955	(2) 13W TT (G23-2)	11 ⁵ / ₈ (29.5)	11 (27.9)	4 (10.2)	Yes	

^{*} Extension from wall.

NOTES:

1 Lamps not included.



Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

Tri-band – Concentric steel three stepped bands with a matte white finish give a clean elegant appearance. Open top and bottom for maximum light output.

Requires two 13W DTT compact fluorescent lamps, not included.

Residential-grade electronic ballast (120V, 60Hz) ensures no flickering and quiet operation without interference from other home electronics.

Mini-Litepuff – White acrylic diffuser provides soft uniform illumination. Matches the popular surface mounted Litepuff series. Diffuser removes easily for cleaning and maintenance.

Requires two 13W TT compact fluorescent lamps, not included.

Uses class P, LPF, sound rating A ballast.

Half Rounds – Deco half round provides a soft uniform illumination with a white acrylic diffuser. Accented with cast resin casing trim in a metallic finish. Faux alabaster diffuser half round provides a soft uniform glow. Accented with a vacuum metalized brass trim. Open top and bottom for direct and indirect illumination.

Tri-band and half-round fixtures, ADA compliant.

Requires two 13W TT compact fluorescent lamps, not included.

Uses class P, LPF, sound rating A ballast.

All mounting hardware included.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

number ¹
Tri-Band
Mini-Litepuff
Deco Half Round
Faux Half Round

	Materials	
Model	Trim	Diffuser
11972 2 13DTT	Powder-coated steel	N/A
11881	N/A	White acrylic
11956	Cast resin	Matte white acrylic
11907	Brass mylar PVC	Faux alabaster

Example: 11972 2 13DTT

Availability and Dimensions						
3						ADA compliant
Tri-Band	11972 2 13DTT	(2) 13W DTT (G24q-1)	131/2 (34.1)	71/4 (18.4)	4 (10.2)	Yes
Mini Litepuff	11881	(2) 13W TT (G23-2)	6 (15.3)	11 (27.9)	41/2 (11.4)	No
Deco Half Round	11956	(2) 13W TT (G23-2)	73/4 (19.7)	11 (27.9)	4 (10.2)	Yes
Faux Half Round	11907	(2) 13W TT (G23-2)	83/4 (22.2)	12 (30.5)	31/2 (8.9)	Yes

^{*}Extension from wall.

NOTES:

1 Lamps not included.

Sconces



Sconces



Intended Use

Ideal for use as accent lighting in bathrooms, hallways and stairwells. Visually expands the space and creates a relaxing atmosphere.

Features

Distinctive decorative wall fixtures in designs to complement a range of decors.

Our quarter spheres are simplicity in design while providing a soft uniform illumination with a milk white diffuser. Offered with no trim for a clean appearance or accented with a black or white trim. Diffuser removes easily for cleaning and maintenance.

Requires two 13W TT compact fluorescent lamps, not included.

Uses class P, LPF, sound rating A ballast.

ADA compliant.

All mounting hardware included.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Mod	el number ¹
11957 11963WH 11963BL	Puff White trim Black trim

Materials					
Model	Trim	Diffuser			
11957	N/A	Matte white acrylic			
11963 WH	PVC	Matte white acrylic			
11963 BL	PVC	Matte white acrylic			

Example: 11957

Availability and Dimensions						
Description	Model number	Number of lamps	Width in. (cm)	Height in. (cm)	Depth* in. (cm)	ADA compliant
No Trim	11957	(2) 13W TT	131/4 (33.7)	63/4 (17.1)	31/2 (8.9)	Yes
White trim	11963WH	(2) 13W TT	153/4 (39.0)	77/8 (20.0)	4 (10.2)	Yes
Black trim	11963BL	(2) 13W TT	153/4 (39.0)	77/8 (20.0)	4 (10.2)	Yes

^{*} Extension from wall.

NOTES:

1 Lamps not included.



Surface-Mounted Fixtures

	Ballast and Electrical			Hang	Hangers	
Designation:	CW	EL	GLR	GMF	SQ	1B
See page:	115	116	115	115	117	117
Cambridge, 2L	_			-		
Cambridge, 2U						
Cambridge, 4L						
Cirrus, 2L						
Cirrus, 4L						
Designer, 2L wood						
Designer, 2U wood						
Designer, 4L wood						
Designer, 6L wood						
Designer, 8L wood						
Dura-Steel, 2L, 2'						
Dura-Steel, 2L						
Dura-Steel, 2U						
Dura-Steel, 4L						
Litepuff, 2L						
Litepuff, 2U						
Litepuff, 4L						
Litepuff, 4L, 2'						
Designer, 2L acrylic						
Designer, 2U acrylic						
Designer, 4L acrylic						
MP, 2L						
MP, 2U						
MP, 4L						
Square profile, 2L 1x4						
Square profile, 2L 1x2						
Square profile, 4L 1 ¹ / ₂ x 4						

Option available
(blank) Option not available
Consult factory

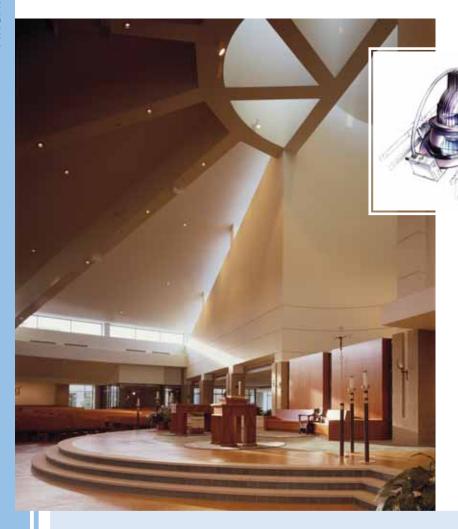
Vanity Wall Brackets

	Ballast and Electrical			
Designation:	CW GLR GMF			
See page:	115	115	115	
Narrow band ends				
Wide band ends				
White/clear fluted				
Litepuffs				
Wraparounds, white ends				
Wraparounds, chrome ends				
Solid oak ends				

Option available



Architectural Downlighting

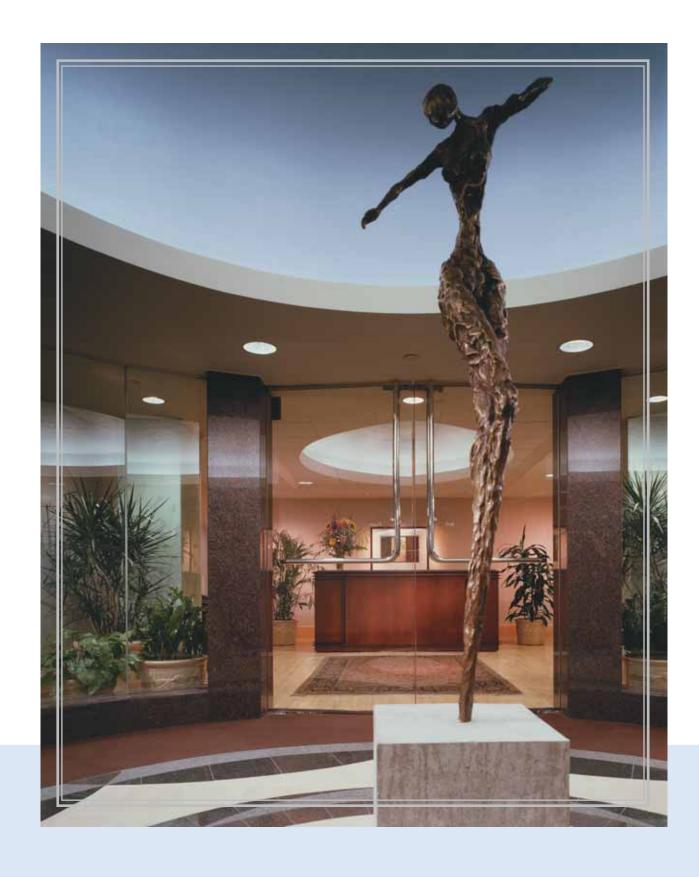


The Gotham Lighting Corporation was founded in 1938 in New York City.
Gotham's founder, Harry Gerstel, understood that modernist architecture called for a new approach to interior lighting, and he was in touch with advancements in electric light sources that were on the horizon.

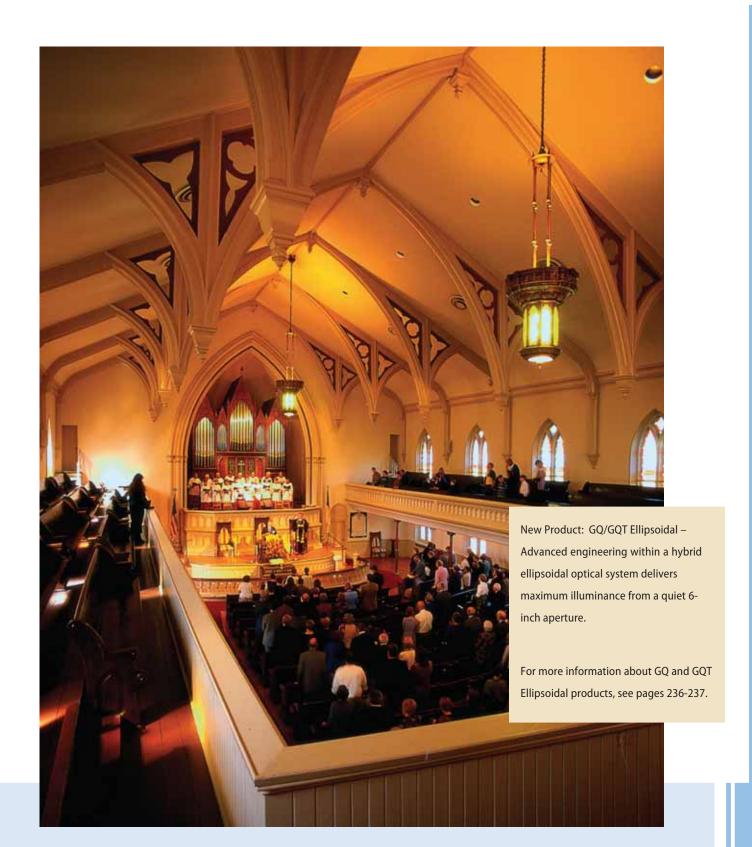
From the beginning, Gotham concentrated on developing luminaires that would enhance the appearance of modern spaces without calling attention to themselves. The company's focus on architectural integration, optical performance, reliability and innovative manufacturing processes resulted in Gotham quickly becoming one of the most respected names in architectural lighting.

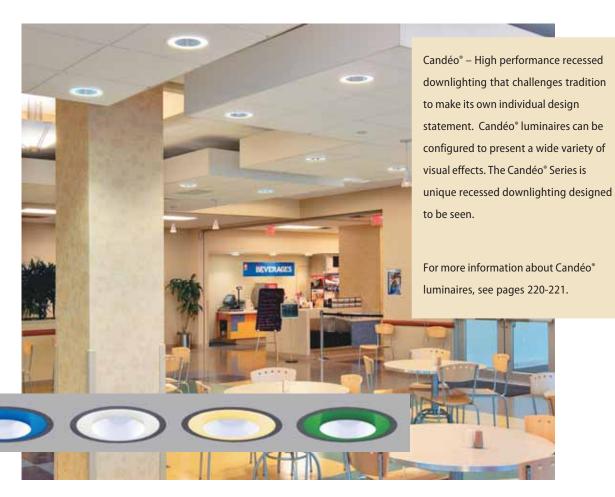
Today, Gotham continues to embrace
the challenges of downlighting product
leadership. Bound by our time-honored
design principles of optical
performance and mechanical quality,
we continue to innovate product
concepts that optimize new source
technologies and expand aesthetic
choices for lighting professionals.





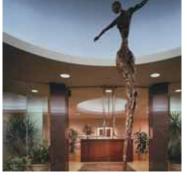












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Open Reflector

Vertical Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Self-flanged, semi-specular or matte-diffuse reflector. Patented Vertisys® - Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture,

Intended Use

For general downlight applications that demand high efficiency and low aperture brightness.

Optical System

providing optimal fixture performance and efficiency.

Electrical System

Rugged aluminum lampholder housing. Vertically-mounted, $positive-latch,\ thermoplastic\ socket.$ Class P, thermally-protected, high power factor ballast mounted to the

junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: AFV 26TRT 6AR MVOLT

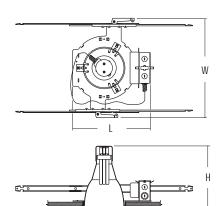
Ordering Information

Series	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/accessories
AFV	13DTT 18DTT 26DTT 18TRT 26TRT 32TRT 42TRT	4 ¹ 5 ¹ 6 8	AR Clear PR Pewter UBR Umber WTR Wheat WR White painted ² MB Black baffle ² WB White baffle ²	(blank) Semi-specular LD Matte-diffuse	(blank) No lens CGL Clear glass lens CAL Clear acrylic lens PCL Clear polycarbonate lens T73 Tempered prismatic lens A12 Prismatic acrylic lens PPC Prismatic polycarbonate lens	120 277 347 MVOLT ³	Seepages 266-271.

Catalog No.	Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AFV 4	DTT, TRT	9 (22.9)	13-5/8 (34.6)	15-7/8 (40.3)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AFV 5	DTT, TRT	9-3/8 (23.8)	13-5/8 (34.6)	15-7/8 (40.3)	5 (12.7)	5-7/8 (14.9)	6-1/4 (15.9)
AFV 6	DTT, 42TRT	10-1/4 (26.0)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFV 6	13DTT, TRT	9-3/8 (23.8)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFV 8	DTT, 42TRT	11 (27.9)	13-3/4 (34.9)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AFV 8	13DTT, TRT	10-1/8 (25.7)	13-3/4 (34.9)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.





www.gothamlighting.com, keyword: AFV

- 1 Available in 13DTT, 18TRT, 26TRT and 32TRT lamp only.
- 2 Not available with LD finish.
- $3 \quad \text{Multi-volt electronic ballast capable of op-} \\$ erating on any line voltage from 120V through 277V, 50 or 60 HZ.

For general downlight wallwash applications that demand high efficiency, uniform vertical illumination and low aperture brightness.

AFVW

Vertical Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Vertisys® - Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and optimal fixture performance and

42TRT

efficiency. Patented hybrid wallwash kicker provides uniform vertical illumination with light high on the wall close to the ceiling and no roomside "back-flash."

Electrical System

Rugged aluminum lampholder housing. Vertically-mounted, positive-latch thermoplastic socket. Class P, thermally-protected, high power factor ballast mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

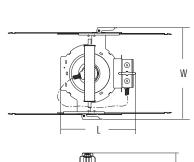
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information Example: AFVW 26TRT 6AR MVOLT

Series	Wattage/lamp	Aperture	Trim color	Finish	Lens type	Voltage	Options/accessories
AFVW	13DTT 18DTT 26DTT	4 ¹ 5 ¹ 6	AR Clear PR Pewter UBR Umber	(blank) Semi-specular LD Matte-diffuse	(blank) No lens CGL Clear glass lens CAL Clear acrylic lens	120 277 347	Seepages 266-271.
	18TRT 26TRT 32TRT	8	WTR Wheat WR White painted ²		PCL Clear polycarbonate lens	MVOLT ³	

Catalog No.	Lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AFVW 4	DTT, TRT	9 (22.9)	13-5/8 (34.6)	15-7/8 (40.3)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AFVW 5	DTT, TRT	9-3/8 (23.8)	13-5/8 (34.6)	15-7/8 (40.3)	5 (12.7)	5-7/8 (14.9)	6-1/4 (15.9)
AFVW 6	DTT, 42TRT	10-7/8 (27.6)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFVW 6	13DTT, TRT	10 (25.4)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFVW 8	DTT, 42TRT	11-5/8 (29.5)	13-3/4 (34.9)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AFVW 8	13DTT, TRT	10-5/8 (27.0)	13-3/4 (34.9)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.





www.gothamlighting.com, keyword: AFVW

- 1 Available in 13DTT, 18TRT, 26TRT and 32TRT lamponly.
- $2\quad \text{Not available with LD finish}.$
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.



Open Reflector

Horizontal Lamp

Triple-Tube (TRT)

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from the top of the reflector to bottom, and optimal fixture performance and

Intended Use

For general downlight applications that demand superior brightness control in shallow plenum areas.

Optical System

efficiency. Hinged lampdoor reduces stray light in the plenum.

Electrical System

Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: AF 1/32TRT 8AR MVOLT

Ordering Information

	<u> </u>							<u> </u>		
		1								
Series	No. of lamps	Wattage/lamp	Aperture	T	rim color		Finish	Lens type	Voltage	Options/accessories
AF	1 2 ¹ 3 ²	18TRT 26TRT 32TRT 42TRT 57TRT ³	6 8 10	PR UBR WTR WR MB		(blank) LD	Semi-specular Matte-diffuse	No lens Clear glass lens Clear acrylic lens Clear polycarbonate lens Tempered prismatic lens Prismatic acrylic lens Prismatic polycarbonate lens	120 277 347 MVOLT ⁵	Seepages 266-271.

	Catalog	Height	Length	Width		Ceiling	Overlap
	No.	(H)	(L)	(W)	Aperture	opening	trim
ĺ	AF 6	7-3/4 (19.7)	13 -7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
	AF 8	8-3/4 (22.2)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
	AF 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

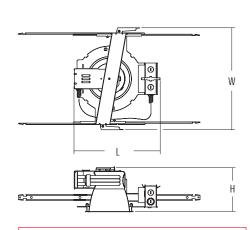
NOTES:

- 1 Available in 8" and 10" aperture only.
- 2 Available in 10" aperture only.
- 3 Available in 8" aperture 1-lamp, or 10" aperture 1 or 2-lamp only, Sylvania or Philips.
- 4 Not available with LD finish.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.







www.gothamlighting.com, keyword: AF

For general downlight wallwash applications that demand superior brightness control and uniform vertical illumination in shallow plenum areas.

AFW

Horizontal Lamp

Triple-Tube (TRT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patented hybrid wallwash kicker provides uniform vertical illumination with light high

on the wall close to the ceiling and no roomside "back-flash." Hinged lampdoor reduces stray light in the plenum.

Electrical System

Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

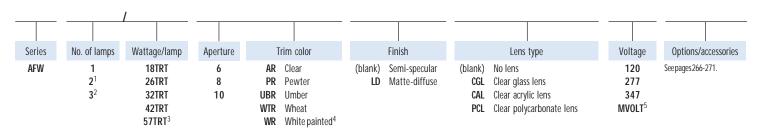
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information

Example: AFW 1/32TRT 8AR MVOLT

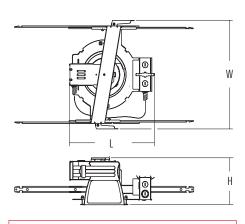


Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AFW 6	7-3/4 (19.7)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AFW 8	8-3/4 (22.2)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AFW 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

NOTES:

- 1 Available in 8" and 10" aperture only.
- 2 Available in 10" aperture only.
- 3 Available in 8" aperture 1-lamp, or 10" aperture 1 or 2-lamp only, Sylvania or Philips.
- 4 Not available with LD finish.
- 5 Multi-voltelectronicballastcapableofoperating on any line voltage from 120V through 277V, 50 or 60 HZ.



www.gothamlighting.com, keyword: AFW



Open Reflector

Horizontal Lamp

Double Twin-Tube (DTT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom.

Intended Use

For general downlight applications that demand superior brightness control in shallow plenum areas.

Electrical System

Horizontally-mounted, positivelatch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: AF 2/26DTT 6AR MVOLT Aperture Voltage No. of lamps Wattage/lamp Trim color Finish Lens type Options/accessories Series 13DTT See pages 266-271. AR Clear (blank) Semi-specular (blank) No lens 120 18DTT 277 8 PR Pewter LD Matte-diffuse CGL Clear glass lens 2 **3**¹ 26DTT 10 UBR Umber CAL Clear acrylic lens 347 Wheat MVOLT4 WTR PCL Clear polycarbonate lens WR White painted2 T73 Tempered prismatic lens MB Black baffle² A12 Prismatic acrylic lens WB White baffle² PPC Prismatic polycarbonate lens BC Black cone^{2,3}

Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AF 6	6-3/4 (17.1)	15-3/4 (40.0)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-5/8 (19.4)
AF 8	7-3/4 (19.7)	15-3/4 (40.0)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AF 10	7-3/16 (18.3)	18-1/8 (46.0)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)
AF 10 MB/WB	8-9/16 (21.7)	18-1/8 (46.0)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)

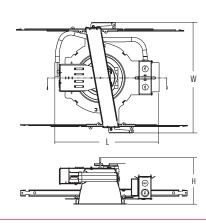
NOTES:

- 1 Available in 10" aperture only.
- 2 Not available with LD finish.
- Available in 6" and 8" aperture only.
- Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.







For general downlight wallwash applications that demand superior brightness control and uniform vertical illumination in shallow plenum areas.

AFM

Horizontal Lamp

Double Twin-Tube (DTT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patented hybrid wallwash kicker provides uniform

vertical illumination with light high on the wall close to the ceiling and no roomside "back-flash."

Electrical System

Horizontally-mounted, positivelatch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting

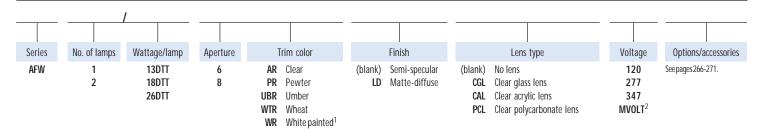
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical

adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information Example: AFW 2/26DTT 6AR MVOLT

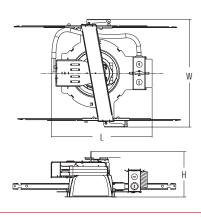


	Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
ı	AFW 6	6-3/4 (17.1)	15-3/4 (40.0)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-5/8 (19.4)
	AFW 8	7-3/4 (19.7)	15-3/4 (40.0)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

NOTES:

- 1 Not available with LD finish.
- 2 Multi-voltelectronicballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$



www.gothamlighting.com, keyword: AFW



Cross Baffle Reflector

AF

Horizontal Lamp

Triple-Tube (TRT)

Intended Use

For general downlight applications that demand superior brightness control in shallow plenum areas. Cross baffle reflector provides additional shielding.

Optical System

Self-flanged, semi-specular or matte-diffuse reflector with cross baffle that offers optical cut-off with a clean aperture appearance. Patented Bounding Ray^{IM} Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from the top of the reflector to

bottom. Hinged lampdoor reduces stray light in the plenum.

Electrical System

Horizontally-mounted, four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

PPC Prismatic polycarbonate lens

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Options/accessories

See pages 266-271.

Example: AF 1/32TRT 8CB MVOLT

Voltage

120

277

347

MVOLT4

Ordering Information

Wattage/lamp Aperture No. of lamps Trim color Finish Lens type Series 18TRT 6 CB Clear cross baffle (blank) Semi-specular (blank) No lens **2**¹ 26TRT 8 LD Matte-diffuse **CGL** Clear glass lens **3**² 32TRT 10 Clear acrylic lens 42TRT PCL Clear polycarbonate lens 57TRT³ T73 Tempered prismatic lens A12 Prismatic acrylic lens

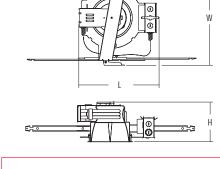
Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AF 6	7-3/4 (19.7)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AF 8	8-3/4 (22.2)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AF 10	9-3/4 (24.8)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

NOTES:

- 1 Available in 8" and 10" aperture only.
- 2 Available in 10" aperture only.
- 3 Available in 8" aperture 1-lamp, or 10" aperture 1 or 2-lamp only, Sylvania or Philips.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







For general downlight and wallwash applications that demand superior brightness control in shallow plenum areas. Cross baffle reflector provides additional shielding.

AFZ/AFZW

Horizontal Lamp

Double Twin-Tube (DTT)

Downlight Optical System

Specular upper reflector. Semispecular or matte-diffuse reflector with cross baffle. Optical system optimally balances brightness control and high efficiency. Lamp is visible before reflected lamp image.

Wallwash Optical System Specular upper reflector. Self-

flanged, semi-specular or mattediffuse reflector with cross baffle. Optical system designed to deliver a uniform distribution of light to the

Electrical System

Die-cast aluminum lampholder housing ventilated for convective cooling. Horizontally-mounted,

positive-latch thermoplastic sockets. Class P, thermally-protected, high power factor ballast(s) mounted to the junction box.

Mounting

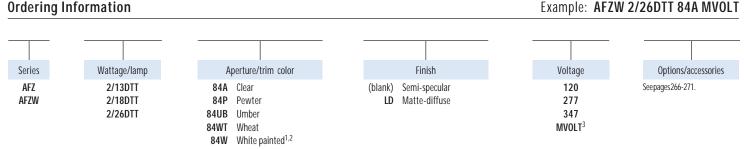
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke used to retain optical system.

Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

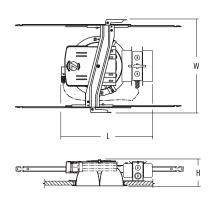


Catalog	Height	Length	Width	A	Ceiling	Overlap	
No.	(H)	(L)	(W)	Aperture	opening	trim	
AFZ/AFZW	5-1/4 (13.3)	15-5/8 (39.7)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/8 (23.2)	

NOTES:

- 1 Not recommended for use with AFZW.
- 2 Not available with LD finish.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.



www.gothamlighting.com, keywords: AFZ and AFZW



Lensed Wallwash

DLWF

Double Twin-Tube (DTT) Triple-Tube (TRT)

Intended Use

For downlight wallwash applications requiring a uniform wallwash distribution.

Optical System

Self-flanged, semi-specular or matte-diffuse compound contour finishing trim in combination with keyed, proprietary Gotham® spread lens delivers a uniform distribution of light to the wall. Enclosed lamp compartment reduces stray light in the plenum.

Electrical System

Horizontally-mounted, four-pin, positive-latch thermoplastic socket. Class P, thermally-protected, high power factor electronic ballast mounted to the junction box.

Mounting

16-gauge galvanized steel

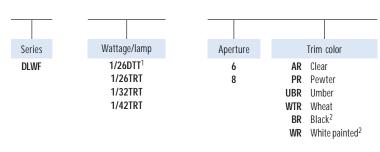
mounting/plaster frame with thruwire junction box will accommodate up to 1-1/2" thick ceiling. Formed housing with matte black finish. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange adjustment.

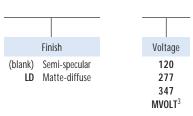
Listings

Example: DLWF 1/32TRT 6AR MVOLT

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information







Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
DLWF 6	6-5/8 (16.9)	13 3/4 (34 0)	18-7/16 (46.8)	6-1/4 (15.9)	7-1/8 (18.1)	7-5/8 (19.5)
DLWF 8	0-3/0 (10.7)	13-3/4 (34.7)	10-77 10 (40.0)	7-7/8 (20.1)	8-7/8 (22.5)	9-3/8 (23.8)

NOTES:

- 1 Requires four-pin lamp, ships as a TRT fixture
- 2 Not available with LD finish.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







Provides uniform general illumination for institutional, office, commercial and retail applications.

Horizontal Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

Semi-specular anodized aluminum upper reflector.

Door

Die-cast aluminum door frame with gasketed flange. Regressed white door (RW), stepped black baffle (SB), stepped white baffle (SW) or flush white door (FW) available. White-painted flange.

Lens

Available with tempered prismatic lens (T73), semi-flush lens (SFL), drop opal lens (DOL), flat Fresnel lens (FFL), flat Holophane lens (FHL) or drop Holophane lens (DHL).

Electrical System

Horizontally-mounted, positivelatch, thermoplastic sockets. Class P, thermally-protected, high power

factor ballast(s).

Mounting

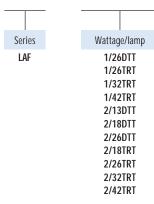
16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches. Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

Listings

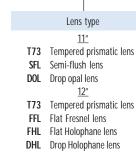
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Example: LAF 2/26DTT 11RW T73 MVOLT



	Aperture/door frame
11RW	Regressed white door
12SB	Stepped black baffle
12SW	Stepped white baffle
12FW	Flush white door



Voltage
120
277
347
MVOLT ¹

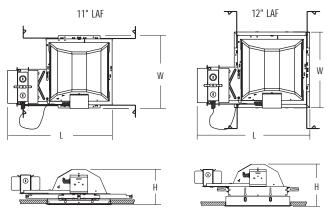
Options/accessories
See pages 266-271.

	Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
İ	LAF 11	6 (15.2)	17-1/2 (44.5)	12-1/8 (30.8)	10-1/2 (26.7)	11-1/4 (28.6)	11-5/8 (29.5)
l	LAF 12	7-3/4 (19.7)	18 (45.7)	12-1/8 (30.8)	10-7/8 (27.6)	12-1/4 (31.1)	12-5/8 (32.1)

NOTES:

1 Multi-voltelectronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.







Round Lens

LGF

Horizontal Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

White-painted upper reflector.

Door

Regressed white door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics in shallow plenum areas.

Lens

Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) and flat opal lens (FOL).

Electrical System

Horizontally-mounted, four-pin positive-latch, thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Example: LGF 2/26TRT 8RW T73 MVOLT

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian

Ordering Information

	<u> </u>				<u>'</u>		
		<u> </u>					
Series	No. of lamps	Wattage/lamp	Aperture	Door frame	Lens type	Voltage	Options/accessories
LGF	1 2 ¹ 3 ²	26DTT ³ 18TRT 26TRT 32TRT 42TRT 57TRT ⁴	6 8 10	RW Regressed white door SB Stepped black baffle	Tempered prismatic lensFLFlat Fresnel lensFOLFlat opal lens	120 277 347 MVOLT ⁵	See pages 266-271.

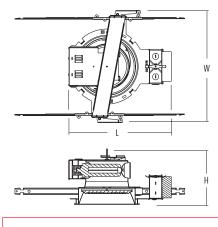
Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
LGF 6	6-3/4 (17.1)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LGF 8	7-7/8 (20.1)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LGF 10	8-5/8 (21.9)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.

Regressed white door Stepped black baffle T73 FFL

FOL





www.gothamlighting.com, keyword: LGF

- 1 Available in 8" and 10" aperture only.
- 2 Available in 10" aperture only.
- 3 Requires four-pin lamp, ships as a TRT fixture.
- 4 Available in 8" aperture 1-lamp, or 10" aperture 1 or 2-lamp only, Sylviania or Philips.
- 5 Multi-voltelectronicballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics, high efficiency and low aperture brightness.

I GFV

Vertical Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

White-painted upper reflector.

Door

Regressed white door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens

Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).

Electrical System

Vertically-mounted, four-pin positive-latch, thermoplastic socket.

Class P, thermally-protected, high power factor electronic ballast mounted to the junction box.

Mounting

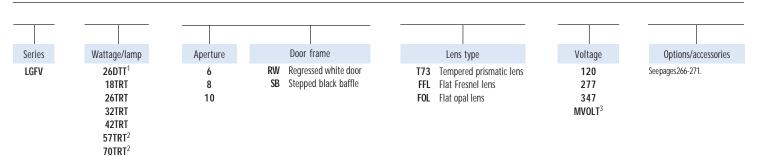
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Expandable, self-

locking mounting bars provide horizontal and vertical adjustment.

Listings

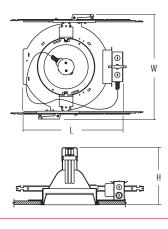
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards

Ordering Information



Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
LGFV 6	9 (22.9)	13-5/8 (34.6)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LGFV 8	9-5/8 (24.4)	13-5/8 (34.6)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LGFV 10	14-1/8 (35.9)	17-3/4 (45.1)	17-1/4 (43.8)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

 $Drawings \ are for dimensional \ detail only \ and \ may \ not \ represent \ actual \ mechanical \ configuration.$ $Dimensions \ are \ shown \ in \ inches \ (centimeters) \ unless \ otherwise \ noted.$

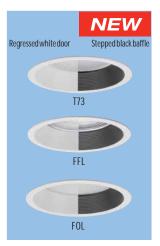


www.gothamlighting.com, keyword: LGFV

NOTES:

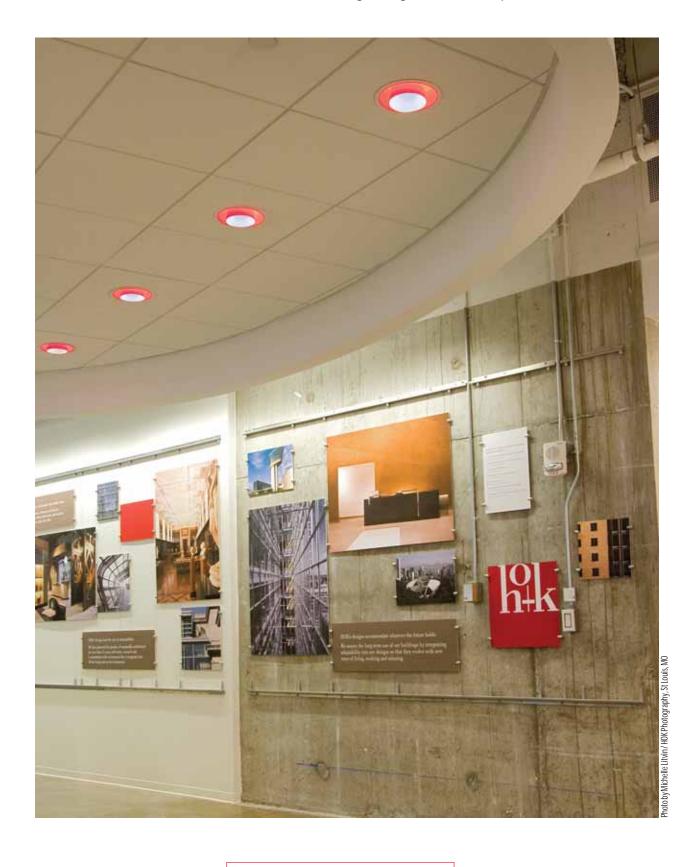
Example: LGFV 26TRT 8RW T73 MVOLT

- 1 Requires four-pin lamp, ships as a TRT fixture.
- 2 Available in 10" aperture only.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.





$Cand\acute{e}o^{^{\circledR}}$ Performance downlighting with an expressive luminance



Decorative luminaire designed to accentuate the space, adding visual interest.

PDGF

Horizontal Lamp

Candéo® Triple-Tube (TRT)

Optical System

Three-part optical system interacts to create the effect of a clear specular aperture floating within a pool of diffused light (U.S. patent pending). Self-flanged white painted outer cone. Field adjustable to three settings, the inner reflector is painted white on the outer surface with semi-specular or matte-diffuse inner surface. Patented Bounding

Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Choice of colored diffuser adds visual interest. Hinged lamp door reduces stray light in the plenum.

Electrical System
Horizontally-mounted four-pin,

positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information

	1							
Series	No. of lamps	Wattage/lamp	Aperture/trim color	Finish	Lens type	Diffuser	Voltage	Options/accessories
PDGF	1 2 3 ¹	18TRT 26TRT 32TRT 42TRT 57TPT ²	8AR Clear 10AR Clear	(blank) Semi-specular LD Matte-diffuse	(blank) No lens CAL Clear acrylic lens	WHT Snow GRN Sea BLU Sky TAN Sand	120 277 347 MVOLT ³	See pages 266-271.

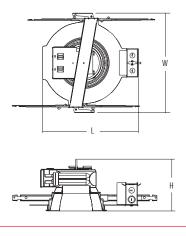
Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
PDGF 8	8 (20.3)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
PDGF 10	9 (22.9)	17-3/4 (45.1)	17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	11-1/8 (28.3)

NOTES:

Example: PDGF 1/32TRT 8AR GRN MVOLT

- 1 Available in 10AR only.
- Available in 10AR1- or 2-lamp or 8AR1lamp only, Sylvania or Philips.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







Luminous Cross-Baffle Reflector

PDXF

Horizontal Lamp

ICE™ Triple-Tube (TRT)

Intended Use

High-performance decorative luminaire designed to add visual interest or intrigue.

Optical System

Self-flanged, matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom.

ICE™ clear acrylic cross baffle has surface that provides a decorative edge-glow appearance. Hinged lamp door reduces stray light in the plenum. ICE™ Color available in red, blue, amber or white acrylic cross baffle jacketed with aluminum (U.S. Patent No. 6,273,592) provides a vibrant edge-glow appearance. Available in flush or round baffle styles.

Electrical System Horizontally-mounted four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

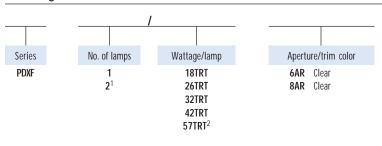
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Example: PDXF 1/32TRT 8AR CLRF MVOLT

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information



	Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
	PDXF 6	7-3/4 (19.7)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
ı	PDXF 8	8-3/4 (22.2)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

Baffle type Voltage | CE™ 120 Seepa CLRF Clear flush 277 CLRR Clear round 347

MVOLT3

Clear round CLRR Clear angular ICE™ Color RLRF Red flush RLRR Red round BLRF Blue flush BLRR Blue round ALRF Amber flush ALRR Amber round WLRF White flush WLRR White round

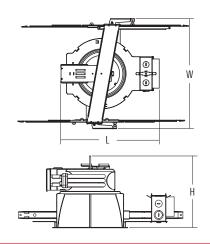
Options/accessories See pages 266-271.

NOTES:

- 1 Available in 8AR only.
- Available in 8AR1-lamp only, Sylvania or Philips.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.





👩 gotham°

High-performance decorative luminaire designed to add visual interest or intrigue.

PDTF

Horizontal Lamp

ICE™Turbo Triple-Tube (TRT)

Optical System

Self-flanged, matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Clear acrylic turbo baffle has surface that provides a decorative edge-

glow appearance. Hinged lamp door reduces stray light in the plenum.

Electrical System

Horizontally-mounted four-pin, positive-latch thermoplastic socket(s). Socket housing ventilated for convective cooling. Class P, thermally-protected, high power factor electronic ballast(s) mounted to the junction box.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

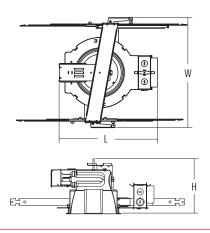
Example: PDTF 1/32TRT 8AR MVOLT **Ordering Information** Series No. of lamps Wattage/lamp Aperture/trim color Voltage Options/accessories PDTF 18TRT 6AR Clear 120 See pages 266-271. 1 **2**¹ 277 26TRT 8AR Clear 347 32TRT MVOLT3 42TRT 57TRT²

Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
PDTF 6	7-3/4 (19.7)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
PDTF 8	8-3/4 (22.2)	14-1/2 (36.8)	15-7/8 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

NOTES:

- 1 Available in 8AR only.
- 2 Available in 8AR1-lamponly, Sylvania or Philips.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.



www.gothamlighting.com, keyword: PDTF





Open Reflector

AH

Vertical Lamp

Intended Use

For general downlight applications such as offices, corridors, lobbies, airports, retail locations and reception areas that demand high efficiency and low aperture brightness.

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray[™] Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom.

Electrical System

Prewired, encased-and-potted, traymounted ballast module. Die-cast aluminum lampholder housing. Thermally activated insulation detector. Porcelain socket with nickel-plated screw shell.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: AH 100M 6AR 120

Ordering Information

Series	Wattage/lamp ¹	Aperture ⁶	Trim color	Distribution	Finish	Lens type	Voltage	Options/accessories
АН	Metal Halide 50M ² 70M ² 100M ² 150M ² 175M ⁴ 250M ⁴ 320M ^{3,4,5} 350M ^{3,4,5}	4 6 8 10 12	AR Clear PR Pewter UBR Umber WTR Wheat WR White painted ⁷ MB Black baffle ⁷ WB White baffle ⁷ BC Black cone ⁷	(blank) Standard N Narrow ⁸	(blank) Semi-specular LD Matte-diffuse	(blank) No lens CGL Clear glass lens T73 Tempered prismatic lens	120 277 347	See pages 266-271.

400M^{4,5} Ceramic Metal Halide²

50MHC 70MHC

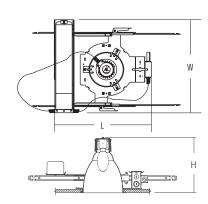
100MHC 150MHC

Catalog No./	Max.	Height	Length	Width		Ceiling	Overlap
socket	wattage	(H)	(L)	(W)	Aperture	opening	trim
AH 4 (MED)	70	9 (22.9)	20-1/4 (51.4)	17-3/4 (45.1)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.9)
AH 6 (MED)*	100	8-1/2 (21.6)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AH 8 (MED)*	150	9-3/16 (23.3)	20-1/4 (51.4)	17-3/4 (45.1)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
AH 10 (MOG)	250	15-1/4 (38.7)	23-3/4 (60.3)	20-1/8 (51.1)	9-3/4 (24.8)	10-1/4 (26.0)	10-7/8 (27.6)
AH 12 (MOG)	400	19-1/4 (48.9)	23-3/4 (60.3)	20-1/8 (51.1)	11-11/16 (29.7)	12-1/2 (31.8)	12-11/16 (32.2)

^{*} For narrow distribution (N), add 1" to height.

 $Drawings \ are for dimensional \ detail only \ and \ may \ not \ represent \ actual \ mechanical \ configuration.$ $Dimensions \ are \ shown \ in \ inches \ (centimeters) \ unless \ otherwise \ noted.$





gotham www.gothamlighting.com, keyword: AH

NOTES:

- 1 Recommended for use with coated lamps. Consult specification sheets for additional lamp types.
- 2 Medium-base socket provided for use with open-rated lamps. For enclosedrated lamps, include lens from lens type
- 3 Notavailablein 347V.
- 4 Required safety glass provided.
- Must use BT28 lamp.
- Refer to chart for maximum wattage
- Not available with LD finish.
- Available in 6" and 8" aperture only.

224

Example: AHW 100M 6AR 120

Intended Use

For general downlight wallwash applications such as offices, corridors, lobbies, airports, retail locations and reception areas that demand high efficiency, uniform vertical illumination and low aperture brightness.

AHW

Vertical Lamp

Optical System

Self-flanged, semi-specular or matte-diffuse reflector with semi-specular wallwash kicker. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patented hybrid wallwash kicker provides uniform

vertical illumination with light high on the wall, close to the ceiling and no roomside "back-flash."

Electrical System

Prewired, encased-and-potted, traymounted ballast module. Die-cast aluminum lampholder housing. Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

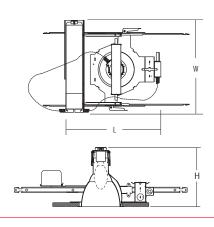
Ordering Information

									_		
Series	l Wattage/lamp ^{1,2}	Aperture ³	T	rim color		Finish		Lens type	Vol	l tage	Options/accessories
AHW	Metal Halide 50M 70M 100M 150M Ceramic Metal Halide	4 6 8	PR UBR WTR	Clear Pewter Umber Wheat White painted ⁴	(blank) LD	Semi-specular Matte-diffuse	(blar C	k) No lens GL Clear glass lens	2	20 77 47	See pages 266-271.
	50MHC 70MHC										

Catalog	Max.	Height	Length	Width		Ceiling	Overlap
No.	wattage	(H)	(L)	(W)	Aperture	opening	trim
AHW 4	70	9 (22.9)	20-1/4 (51.4)	17-3/4 (45.1)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AHW 6	100	9-5/8 (24.4)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AHW 8	150	10-3/8 (26.4)	20-1/4 (51.4)	17-3/4 (45.1)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

 $Drawings \ are for dimensional \ detail only \ and \ may \ not \ represent \ actual \ mechanical \ configuration.$ $Dimensions \ are \ shown \ in \ inches \ (centimeters) \ unless \ otherwise \ noted.$

100MHC 150MHC



www.gothamlighting.com, keyword: AHW

- 1 Recommended for use with coated lamps. Consult specification sheets for additional lamp types.
- 2 Socket provided for use with open-rated lamps. For enclosed-rated lamps, include lens from lens type field.
- 3 Refer to chart for maximum wattage availability.
- 4 Not available with LD finish.



Open Reflector, Low Profile

AHZ

Horizontal Lamp

Intended Use

For general downlight applications such as offices, corridors, lobbies, airports, retail locations and reception areas that demand superior brightness control in shallow plenum areas.

Optical System

Self-flanged, semi-specular or matte-diffuse reflector with tempered prismatic lens. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from the top of the reflector to bottom, providing

optimal fixture performance and efficiency. Hinged lampdoor reduces stray light in the plenum.

Electrical System

Prewired, encased-and-potted, traymounted ballast module. Socket housing designed for effective heatdissipation. Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

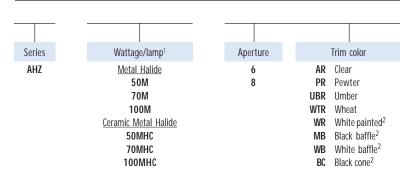
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke utilized to retain optical system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: AHZ 100M 6AR 120

Ordering Information



	Finish	
(blank)	Semi-specular Matte-diffuse	



Options/accessories	S
See pages 266-271.	

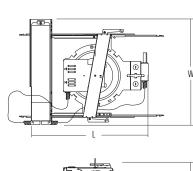
Catalog	y Height	Length	Width		Ceiling	Overlap
No.	(H)	(L)	(W)	Aperture	opening	trim
AHZ 6	7-3/4 (19.7)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AHZ 8	8-3/4 (22.2)	20-1/4 (31.4)	17-3/4 (43.1)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

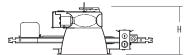
NOTES

- 1 Recommended for use with coated lamps. See specification sheets for additional lamp types.
- 2 Not available with LD finish

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.









www.gothamlighting.com, keyword: AHZ

For general downlight or accent applications in offices, hotels, lobbies, churches, auditoriums and retail locations.

APRH

Vertical Lamp

PAR

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray "Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patent-pending integrated snoot and optical system

minimizes lamp striations normally associated with PAR lamps and creates visually pleasing scallops on vertical surfaces.

Electrical System

Pre-wired, encased-and-potted, tray module mounted ballast module. Die-cast aluminum lampholder

housing. Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

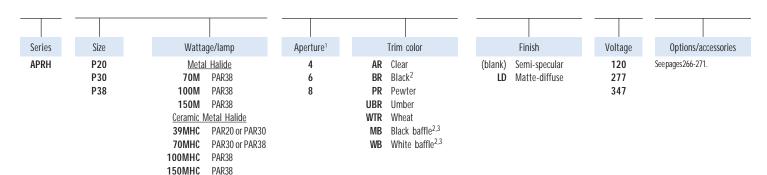
16-gauge galvanized steel mounting/ plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

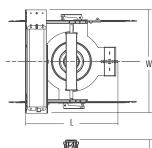
Ordering Information

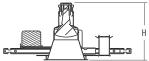
Example: APRH P2039MHC 4AR 120



Catalog No.	Size	Max. wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
APRH4	P20	39MHC (PAR20)	8-13/16 (22.4)			4 E/17 /11 0\	5-1/8 (13.0)	E 7/1/ /12 0\
APKH4	P30	39, 70MHC (PAR30)	8-5/8 (21.9)			4-5/16 (11.0)	3-1/8 (13.0)	5-7/16 (13.8)
	P30	39, 70MHC (PAR30)	9-9/16 (24.3)					
APRH6	P38	70, 100, 150MHC (PAR38)	10-13/16 (27.5)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
	1 30	70, 100, 150M (PAR38)	10-13/10 (27.3)					
APRH8	P38	70, 100, 150MHC (PAR38) 70, 100, 150M (PAR38)	11-3/16 (28.4)			7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$





www.gothamlighting.com, keyword: APRH



- 1 Refer to chart for wattage/lamp availability.
- 2 Not available with LD finish.
- 3 Available in 4" and 6" aperture only.



Directional

DPH

Adjustable Lamp

PAR

Optical System

Self-flanged, semi-specular or matte-diffuse cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two selfaligning, torsion support springs. Relamping capability from above or below ceiling.

Intended Use

Suitable for offices, restaurants, showrooms, museums, retail locations and reception areas where directional accent lighting is desired.

Adjustment Mechanism Tool-less 0°-40° vertical and 360° horizontal adjustment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp position and are visible from below the ceiling with optical system removed.

Electrical System

Prewired, encased-and-potted tray mounted ballast module. Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Tool-less access door to

thru-wire juncion box.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

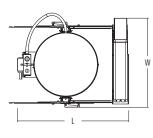
Example: DPH P38100M 8ACT30 120

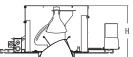
Series	Size	Wattage/lamp	Aperture ¹	Trim color	Туре	Finish	Voltage	Options/accessories
DPH	P20 P30 P38	Metal Halide 70M PAR38 100M PAR38 150M PAR38 Ceramic Metal Halide 39MHC PAR30 or PAR38 100MHC PAR38 150MHC PAR38	4 6 8	AC Clear PC Pewter UBC Umber WTC Wheat WC White painted ² BC Black ² MB Black baffle ² WB White baffle ²	T00 Cut for angles 0° - 15° T20 Cut for angles 15° - 25° T30 Cut for angles 25° - 40°	(blank) Semi-specular LD Matte-diffuse	120 277 347	See pages 266-271.

Cat	talog			Height	Length	Width		Ceiling	Overlap
1	Vo.	Size	Wattage/Lamp	(H)	(L)	(W)	Aperture	opening	trim
DI	PH 4	P20	39MHC (PAR20)	9-1/2 (24.1)	18-3/4 (47.6)	18-1/4 (46.4)	4-3/8 (11.1)	5-1/8 (13.0)	5-7/16 (13.8)
		P38	70, 100, 150M (PAR38)						
DF	PH 6	P38	70, 100, 150MHC (PAR38)	12-1/8 (30.8)	25-5/8 (65.1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
		P30	39, 70MHC (PAR30)						
		P38	70, 100, 150M (PAR38)						
DF	PH 8	P38	70, 100, 150MHC (PAR38)	12-1/8 (30.8)	25-5/8 (65.1)	19-3/4 (50.2)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
		P30	39, 70MHC (PAR30)						

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.







www.gothamlighting.com, keyword: DPH

- 1 Refer to chart for wattage/lamp availability.
- 2 Not available with LD finish.

GOTHAM

Intended Use

Suitable for wallwash applications such as museums, offices, retail areas, showrooms, lobbies and restaurants.

DIWH

Adjustable Lamp

PAR

Optical System

Self-flanged, semi-specular or matte-diffuse compound contour finishing trim in combination with keyed, proprietary Gotham® spread lens delivers a uniform distribution of light to the wall. Enclosed lamp compartment reduces stray light in the plenum. Relamping capability

from above or below ceiling without the use of tools

Electrical System

Pre-wired, encased-and-potted tray mounted ballast module. Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

Rolled steel housing with matte black finish and plaster flange will accommodate up to 1-1/2" thick ceiling. Tool-less access door provides access to thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing

adjustment system for precise ceiling-to-flange adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

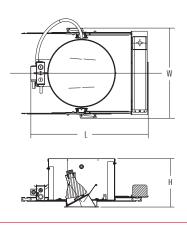
Ordering I	nformation	Example: DLWH 100M 6AR 120				
Series	Wattage/lamp	Aperture	Trim color	Finish	Voltage	Options/accessories
DLWH	Metal Halide 70M PAR38 100M PAR38 150M PAR38 Ceramic Metal 70MHC PAR38 100MHC PAR38	6 8	AR Clear PR Pewter UBR Umber WTR Wheat BR Black ¹ WR White painted ¹	(blank) Semi-specular LD Matte-diffuse	120 277 347	Seepages266-271.

Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
DLWH 6	10 1/2 (26 7)	25 5/8 (45 1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-5/8 (19.4)
DLWH 8	10-1/2 (26.7) 25-5/8 (65.1)	17-3/4 (30.2)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)	

NOTES:

1 Not available with LD finish.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in inches (centimeters) unless otherwise noted.$



www.gothamlighting.com, keyword: DLWH



LGH/LGHZ

Vertical or Horizontal Lamp

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics.

Optical System

White-painted upper reflector.

Regressed white door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens

Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).

Electrical System

Prewired, encased-and-potted, traymounted ballast module. Lampholder housing designed for

effective heat-dissipation. Thermally activated insulation detector. Porcelain socket with nickel-plated screw shell.

Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian

Example: LGH 100M 6RW T73 120

Ordering Information

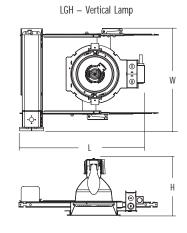
Series	Wattage/lamp ¹	Aperture ²	Door frame	Lens type	Voltage	Options/accessories
LGH Vertical LGHZ Horizontal	Metal Halide 50M 70M 100M 150M 175M 250M Ceramic Metal Halide 70MHC 100MHC	6 8 10	RW Regressed white door SB Stepped black baffle	T73 Tempered prismatic lens FFL Flat Fresnel lens FOL Flat opal lens	120 277 347	See pages 266-271.

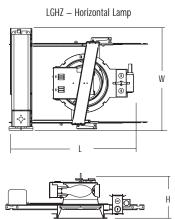
Catalog No./	Max.	Height	Length	Width		Ceiling	Overlap
socket	wattage	(H)	(L)	(W)	Aperture	opening	trim
LGH 6 (MED)	100	9-3/8 (23.8)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LGH 8 (MED)	150	10 (25.4)	20-1/4 (51.4)	17-3/4 (45.1)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LGH 10 (MOG)*	250	14-1/4 (36.2)	23-3/4 (60.3)	20-1/8 (51.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)
LGHZ 6 (MED)	100	6-3/4 (17.1)	20-1/4 (51.4)	17-3/4 (45.1)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LGHZ 8 (MED)	100	7-7/8 (20.1)	20-1/4 (51.4)	17-3/4 (45.1)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LGHZ 10 (MED)	100	8-5/8 (21.9)	23-3/4 (60.3)	17-3/4 (45.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)

 $^{^{\}star}\, Medium\text{-}base\, socket\, used\, with\, 150W\, or\, lower\, metal\, halide\, lamps.$

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.

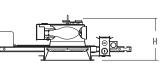
NEW Regressed white door Stepped black baffle T73 FFL FOL





- 1 See specification sheets for additional lamp types.
- 2 Refer to chart for maximum wattage availability.





Provides uniform general illumination for institutional, office, commercial and retail applications.

Horizontal Lamp

Optical System

Semi-specular anodized aluminum upper reflector.

Door

Die-cast aluminum door frame with gasketed flange. Regressed white door (RW), stepped black baffle (SB), stepped white baffle (SW) or flush white door (FW) are available. White painted flange.

Lens

Available with tempered prismatic lens (T73), semi-flush lens (SFL), drop opal lens (DOL), flat Fresnel lens (FFL), flat Holophane lens (FHL) or drop Holophane lens (DHL).

Electrical System

Prewired, HPF, core-and-coil ballast. Thermally activated insulation detector. Porcelain socket with

nickel-plated screw shell.

Mounting

16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches. Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Series	Wattage/lamp
LAH	<u>Metal Halide</u> 50M 70M 100M 150M 175M 250M ¹
	Ceramic Metal Halid
	50MHC
	ZOMILIC

70MHC 100MHC 150MHC

Ар	erture/door frame ²
RW	Regressed white door

11RW 12SB Stepped black baffle Stepped white baffle 12FW Flush white door

Lens type

11" **T73** Tempered prismatic lens SFL Semi-flush lens

DOL Drop opal lens 12" T73 Tempered prismatic lens

FFL Flat Fresnel lens FHL Flat Holophane lens **DHL** Drop Holophane lens

Voltage	
120	
208	
240	

277

347

See pages 266-271.

Options/accessories

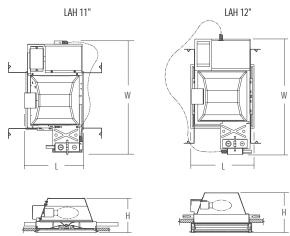
Example: LAH 100M 11RW T73 120

NOTES:

- Provided with encased-and-potted ballast; 120, 277 or 347V only.
- 2 Refer to chart for maximum wattage availability

	Catalog No./ socket	Max. wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
	LAH 11 (MED)	100	6 (15.2)	12 (30.5)	17-3/4 (45.1)	10-1/2 (26.7)	11-1/4 (28.6)	11-5/8 (29.5)
ĺ	LAH 12 (MOG)	175	7 2/4/10 7\	12-3/8 (32.4)	17 2/4 /4E 1\	10 7/0 (27 ()	10 1/4/01 1\	12 E/0/22 1\
	LAH 12 (MOG)	250	7-3/4 (19.7)	18 (45.7)	17-3/4 (45.1)	10-7/8 (27.6)	12-1/4 (31.1)	12-5/8 (32.1)

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.



www.gothamlighting.com, keyword: LAH



Open Reflector

Vertical Lamp

Intended Use

For general downlight applications such as offices, corridors, lobbies, retail and reception areas requiring optimal color rendering, superior optical control and convenient dimming.

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of

the reflector to the aperture, and optimal fixture performance and efficiency.

Electrical System

Die-cast aluminum lampholder housing. Thermally activated insulation detector. Porcelain socket with nickel-plated screw shell.

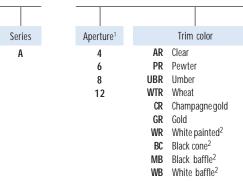
Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

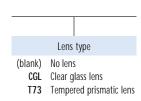
Listings

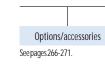
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information Example: A 6AR



	Finish
(blank) LD LS	Semi-specular Matte-diffuse Specular

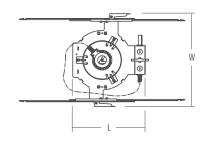


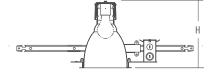


Catalog No./ socket	Max. wattage/ lamp	Max. height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
A 4 (MED)	100W A17/A19	8-3/16 (20.8)			4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
A 6 (MED)	100W A17/A19	8-11/16 (21.1)			6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
A O (IVILD)	150W A21	9-11/16 (24.6)	13-5/8 (34.6)	15-7/8 (40.3)	0-1/4 (13.7)	7-1/0 (10.1)	7-1/2 (17.1)
	150W A21	10-1/8 (25.7)					
A 8 (MED)	200W A23	11-1/8 (28.3)			7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
	300W PS25	11-3/4 (29.8)					
A 12 (MOG)	500W PS40	19-1/4 (48.9)	17 (43.2)	17-3/16 (43.7)	11-11/16 (29.7)	12-1/2 (31.8)	12-13/16 (32.5)

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.







- 1 Refer to chart for maximum wattage/lamp availability.
- 2 Not available with finishes.

For general downlight wallwash applications, such as offices, corridors, lobbies, retail and reception areas requiring optimal color-rendering, superior optical control and convenient dimming.

Vertical Lamp

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector with semi-specular wallwash kicker. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, that reflects smoothly from the top of the reflector to the aperture, and optimal fixture

performance and efficiency. Patented hybrid wallwash kicker provides uniform vertical illumination with light high on the wall, close to the ceiling and no roomside "backflash."

Electrical System

Die-cast aluminum lampholder housing. Thermally activated

insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

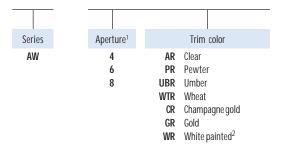
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke and flat spring utilized to retain optical system. Expandable, self-locking

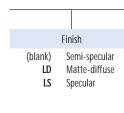
mounting bars provide horizontal and vertical adjustment.

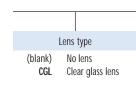
Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian

Ordering Information Example: AW 6AR







Options/accessories
See pages 266-271.

Catalog No./ socket	Max. wattage/ lamp	Max. height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AW 4 (MED)	100W A17/A19	8-7/16 (21.4)		15-7/8 (40.3)	4-5/16 (11.0)	5-1/8 (13.0)	5-7/16 (13.8)
AW 6 (MED)	100W A17/A19	8-11/16 (21.1)	13-5/8 (34.6)		6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AVV 0 (IVILD)	150W A21	9-11/16 (24.6)			0-1/4 (13.7)	7-1/0 (10.1)	7-1/2 (17.1)
	150W A21	10-3/8 (26.4)					
AW 8 (MED)	200W A23	11-3/8 (28.9)			7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
	300W PS25	12 (30.5)					

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.

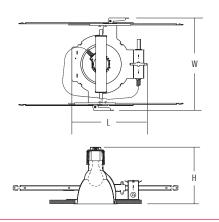
NEW

1 Refer to chart for maximum wattage/lamp



NOTES:

availability. 2 Not available with finishes.



www.gothamlighting.com, keyword: AW

AZ/AZW

Horizontal Lamp

Intended Use

For general downlight or wallwash applications, such as offices, corridors, lobbies, retail and reception areas requiring optimal color rendering, superior optical control and convenient dimming in shallow plenum areas.

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector.
Patented Bounding Ray™ Optical
Principle design (U.S. Patent No.
5,800,050) provides lamp before
lamp image, and smooth transition
from the top of the reflector to the
bottom, and optimal fixture

performance and efficiency. Hinged lamp door reduces stray light in the plenum. Wallwash design includes patented hybrid kicker, providing uniform vertical illumination.

Electrical System

Socket housing designed for effective heat dissipation. Thermally

activated insulation detector. Medium base porcelain socket with nickel-plated screw shell.

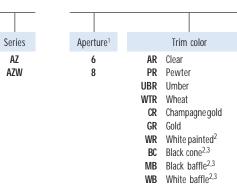
Mounting

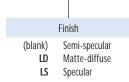
16-gauge galvanized steel mounting/ plaster frame with thru-wire junction box. Integral yoke utilized to retain optical system. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

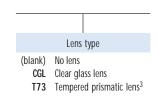
Listings

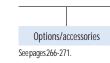
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information









Example: AZ 6AR

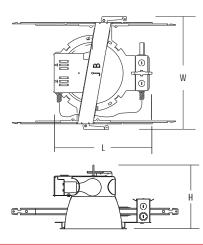
Catalog No.	Max. wattage/ lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
AZ/AZW 6	100W A17/A19	7-3/4 (19.7)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
AZ/AZW 8	150W A21	8-3/4 (22.2)	13-110 (33.2)	13-110 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

NOTES:

- Refer to chart for maximum wattage availability.
- Not available with finishes.
- 3 Not available with AZW fixture.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







For general downlight applications such as offices, hotels, lobbies, churches, auditoriums and retail locations where optimal color rendering and convenient dimming are desired.

APR

Vertical Lamp

PAR

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patent-pending integrated snoot and optical system minimizes lamp striations normally associated with PAR lamps and creates visually pleasing scallops on vertical surfaces.

Electrical System

Die-cast aluminum lampholder housing. Thermally activated insulation detector. Medium base porcelain socket with nickel-plated screw shell.

Mounting

16-gauge galvanized steel mounting frame with thru-wire junction box. Integral yoke and flat spring utilized to retain optical system.

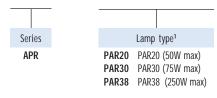
Expandable, self-locking mounting

bars provide horizontal and vertical adjustment.

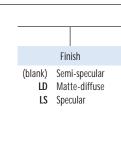
Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information Example: APR PAR20 4AR



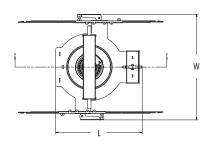
Aperture		Trim color
4	AR	Clear
6	BR	Black ²
8	PR	Pewter
	UBR	Umber
	WTR	Wheat
	CR	Champagne gold
	GR	Gold
	MB	Black baffle ^{2,3}
	WB	White baffle ^{2,3}

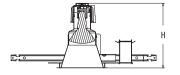


Options/accessories	
See pages 266-271.	

	Catalog No.	Max. wattage/ lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
ſ	APR 4	50W PAR20	8-13/16 (22.4)	13-5/8 (34.3)	15-7/8 (40.3)	4-5/16 (10.9)	5-1/8 (13.0)	5-7/16 (13.8)
	AFIX 4	75W PAR30	8-5/8 (21.9)			4-3/10 (10.7)	3-1/0 (13.0)	3-7710 (13.0)
	APR 6	75W PAR30	9-9/16 (24.3)			6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
	APK 0	250W PAR38	10-3/16 (27.5)			0-1/4 (13.9)	7-1/0 (10.1)	7-1/2 (17.1)
	APR 8	250W PAR38	11-1/4 (28.6)			7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.





www.gothamlighting.com, keyword: APR

- 1 Refer to chart for maximum wattage/ lamp availability.
- 2 Not available with finishes.
- 3 Available in 4" and 6" aperture only.



Ellipsoidal Reflector

GQ

Quartz Halogen T4 Lamp

Intended Use

A small-aperture quartz incandescent fixture suitable for applications with high ceilings, such as churches, malls or auditoriums.

Optical System

Semi-specular upper reflector and selfflanged, semi-specular, matte-diffuse or specular finishing trim provide optimal glare control. Three preset distribution patterns available with protective lamp guard standard. Relamping capability from above or below ceiling without the use of tools.

Electrical System

Heavy-duty mini-can socket for T-4 lamp is integrated into the die-cast aluminum housing with 3 square feet of surface area to dissipate heat and improve lamp life. Thermally activated insulation detector.

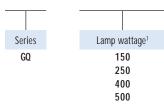
Mounting

16-gauge painted steel mounting/ plaster frame with thru-wire junction box will accommodate up to 1-1/2" thick ceiling. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange adjustment.

Listings

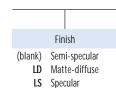
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards. Suitable for installation on non-fire resistant material.

Ordering Information











Example: GQ 250 M 6AR

Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
GQ	13-7/16 (34.1)	17-7/16 (44.3)	19-11/16(50.0)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)

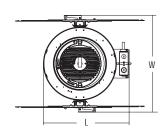
NOTES:

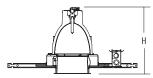
- $1\quad Recommended for use with frosted lamp.$
- 2 Not available with finishes.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.









A small-aperture quartz incandescent fixture suitable for applications with high ceilings, such as churches, malls or auditoriums.

GOI

Quartz Halogen T4 Lamp

Optical System

Semi-specular upper reflector and self-flanged, semi-specular, mattediffuse or specular compound contour finishing trim provide optimal glare control. Center beam optical system centers the lamp relative to the aperture, optimizing luminaire efficiency. Three preset distribution patterns available with protective lamp guard standard. Relamping capability from above or

below ceiling without the use of

Adjustment Mechanism

Tool-less, lockable 0° to 30° vertical adjustment mechanism maintains lamp position and is visible from below the ceiling with the finishing trim removed. Full 360° horizontal adjustment.

Electrical System

Heavy-duty mini-can socket for T-4

lamp is integrated into the die-cast aluminum housing with 3 square feet of surface area to dissipate heat and improve lamp life. Thermally activated insulation detector.

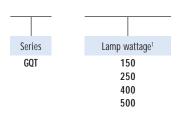
Mounting

16-gauge painted steel mounting/ plaster frame with thru-wire junction box will accommodate up to 1-1/2" thick ceiling. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange adjustment.

Listings

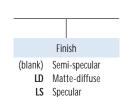
Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards. Suitable for installation on non-fire resistant material.

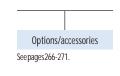
Ordering Information











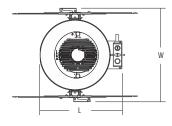
Example: GQT 250 M 6AR

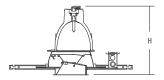
Catalog No.	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
GQT	14-5/8 (37.1)	17-7/16 (44.3)	19-11/16 (50.0)	6-1/4 (15.9)	6-7/8 (17.5)	7-5/8 (19.4)

NOTES:

- $1\quad Recommended for use with frosted lamp.$
- 2 Not available with finishes.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.









Round Lens

LG/LGZ

Vertical or Horizontal Lamp

Intended Use

For downlight applications such as offices, corridors, lobbies, retail and reception areas requiring enclosed optics.

Optical System

White-painted upper reflector.

Regressed white door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens

Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).

Electrical System

Lampholder housing designed for effective heat dissipation. Thermally activated insulation detector.

Medium-base porcelain socket with nickel-plated screw shell.

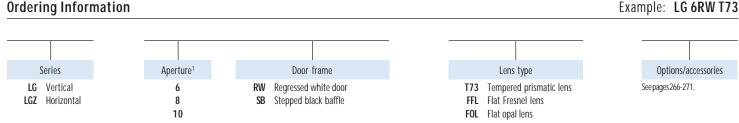
Mounting

16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Expandable, selflocking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

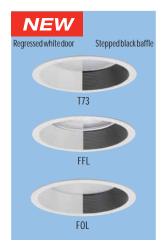


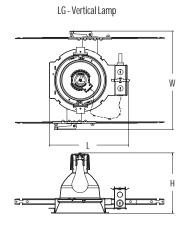
Catalog	Max. wattage/					Ceiling	Overlap
No.	lamp	Height (H)	Length (L)	Width (W)	Aperture	opening	trim
LG 6	150W A21	9-5/8 (24.4)	13-7/8 (35.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LG 8	200W A23	10-1/4 (26.0)		13-770 (40.3)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LG 10	300W PS25	14-1/4 (36.2)		17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)
LGZ 6	100W A17/A19	6-3/4 (17.1)	13-770 (33.2)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)
LGZ 8	150W A21	7-7/8 (20.1)			7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
LGZ 10	200W A23	8-5/8 (21.9)		17-3/8 (44.1)	9-3/4 (24.8)	10-1/2 (26.7)	10-7/8 (27.6)

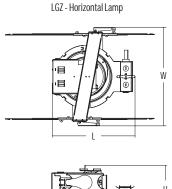
NOTES:

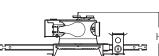
1 Refer to chart for maximum wattage availability.

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.











Provides uniform general illumination for institutional, office, commercial and retail areas.



Horizontal Lamp

Optical System

Semi-specular anodized aluminum upper reflector.

Door

Die-cast aluminum door frame with gasketed flange. Regressed white door (RW), stepped black baffle (SB), stepped white baffle (SW) or flush white door (FW) are available. White painted flange.

Lens

Available with tempered prismatic lens (T73), semi-flush lens (SFL), drop opal lens (D0L), flat Fresnel lens (FFL), flat Holphane lens (FHL) or drop Holophane lens (DHL).

Electrical System

Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

16-gauge galvanized steel thru-wire junction box with bottom-hinged access covers and spring latches.

Telescoping mounting bracket with integral nailer tabs. Expandable mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards

Ordering Information Example: LA 11RW T73



Aperture/door frame¹

11RW Regressed white door12SB Stepped black baffle12SW Stepped white baffle12FW Flush white door

Lens type

11"

T73 Tempered prismatic lens

DOL Drop opal lens

SFL Semi-flush lens

12"

T73 Tempered prismatic lens

FFL Flat Fresnel lens

FHL Flat Holophane lens
DHL Drop Holophane lens

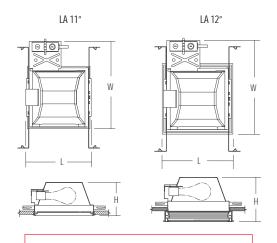
Options/accessories See pages 266-271.

	Catalog No.	Max. wattage/ lamp	lamp (H)		Width (W)	Aperture	Ceiling opening	Overlap trim
ı	LA 11	200W A23	6 (15.2)	12-1/16 (30.6)	16-11/16 (42.4)	10-5/8 (27.0)	11-1/4 (28.6)	11-5/8 (29.5)
ı	LA 12	200W A23	7-3/4 (19.7)	12-5/8 (32.1)	17-3/16 (43.7)	10-7/8 (27.6)	12-1/4 (31.3)	12-5/8 (32.1)

NOTES:

1 Refer to chart for maximum wattage availability.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.



www.gothamlighting.com, keyword: LA



Directional

Adjustable Lamp

PAR

Self-flanged, semi-specular, mattediffuse or specular cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two self-aligning, torsion support

Intended Use

Suitable for offices, restaurant, showrooms, museums, retail and reception areas where directional accent lighting is desired.

Optical System

springs. Relamping capability from above or below ceiling.

Adjustment Mechanism

Tool-less 0°- 40° vertical and 360° horizontal adjustment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp position and are visible from below the ceiling with optical system removed.

Electrical System

Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

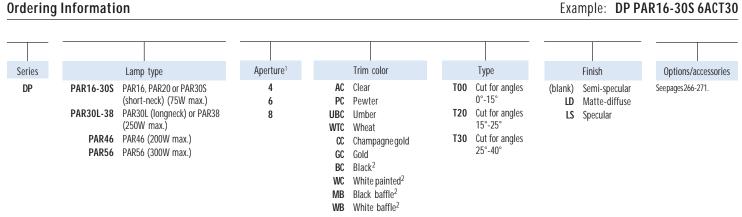
Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical

adjustment. Secondary housing adjustment system for precise ceilingto-flange alignment. Tool-less access door to thru-wire junction box.

Listings

Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information



Catalog	Lamp	Height	Length	Width		Ceiling	Overlap
No.	type	(H)	(L)	(W)	Aperture	opening	trim
DP 4	PAR 16-30S	9-1/2 (24.1)	13 (33.0)	15-1/8 (38.4)	4-3/8 (11.1)	5-1/16 (12.9)	5-7/16 (13.8)
DP 6	PAR 16-30S	10-1/2 (26.7)	17-3/8 (44.1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
DF 0	PAR30L-38	12-1/8 (30.8)	17 370 (11.1)	17 374 (30.2)	0 1/4 (13.7)	0 170 (17.3)	7 1/2 (17.1)
	PAR16-30S	10-1/2 (26.7)					
DP 8	PAR30L-38		17-3/8 (44.1)	19-3/4 (50.2)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.5)
DP 8	PAR46	12-1/8 (30.8)	17-3/8 (44.1)	19-3/4 (50.2)	1-1/8 (20.1)	0-7/8 (22.5)	9-1/4 (23.3)
	PAR56						

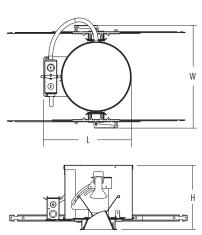
NOTES

- 1 Refer to chart for lamp type availability.
- 2 Not available with finishes.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.







Suitable for wallwash applications such as museums, offices, retail areas, showrooms, lobbies and restaurants.

Adjustable Lamp

PAR

Optical System

Self-flanged, semi-specular, mattediffuse or specular compound contour finishing trim in combination with keyed, proprietary Gotham® spread lens delivers a uniform distribution of light to the wall. Enclosed lamp compartment reduces stray light in the plenum.

Relamping capability from above or below ceiling without the use of tools.

Electrical System

Thermally activated insulation detector. Medium-base porcelain socket with nickel-plated screw

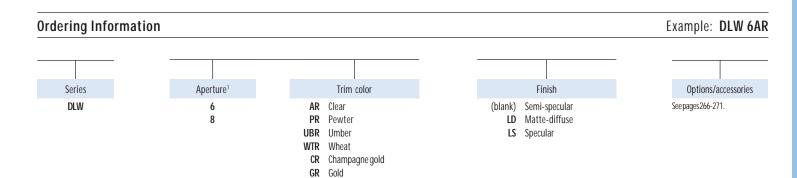
Mounting

Rolled steel housing with matte black finish and plaster flange will accommodate up to 1-1/2" thick ceiling. Tool-less access door provides access to thru-wire junction box. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary

housing adjustment system for precise ceiling-to-flange adjustment.

Listings

Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian



Catalog No.	Max. wattage/ lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
DLW 6	250W PAR38	10-1/2 (26.7)	17-3/8 (44.1)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-5/8 (19.4)
DLW 8	250W PAR38	10-1/2 (26.7)	17-3/8 (44.1)	19-3/4 (50.2)	7-7/8 (20.1)	8-7/8 (22.5)	9-3/8 (23.8)

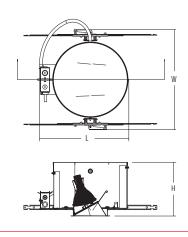
BR Black² White painted2

WR

NOTE:

- 1 Refer to chart for maximum wattage availability.
- 2 Not available with finishes.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.



NEW



Downlight

DLV

Vertical Lamp

Optical System

Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Optical design maximizes light output while minimizing high-angle brightness. Lamp is visible before reflected lamp image. Optical system (seamless white cast faceplate in 1", 2", and 3") retained by two selfaligning torsion support springs.

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, and retail locations where accent lighting is desired.

Accommodates up to two lenses. Safety lens standard with required lamp type. Relamping capability from above and below ceiling.

Electrical System

Tool-less replaceable socket assembly. Tool-less removal of electromagnetic step-down transformer and thermally activated insulation detector. In-line fusing standard.

Mounting

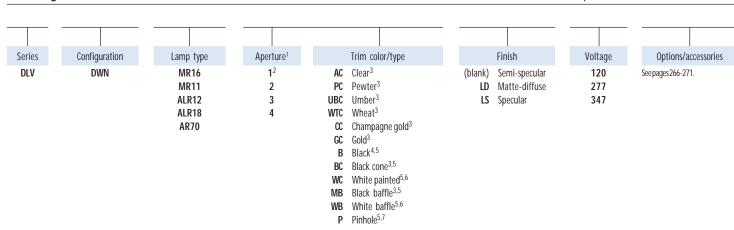
Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Thruwire junction box with bottomhinged access covers and spring latches.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Example: DLV DWN MR16 4AC 120

Ordering Information



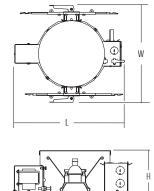
Catalog No.	Lamp type (Max. 75W)	Aperture	Height (H)	Length (L)	Width (W)	Ceiling opening	Overlap trim
DLV DWN 1P	MD14 MD11 ALD12	1 (2.5)		16-1/8 (41.0)	13-3/4 (34.9)	4-7/8 (12.4)	5-1/2 (14.0)
DLV DWN 2B	MR16, MR11, ALR12	2 (5.1)	6-3/4 (17.1)				
DLV DWN 3AC	MR16, MR11, ALR12	3 (7.6)					
DLV DWN 4AC	ALR18, ALR70	4-1/4 (10.8)					

NOTES:

- $1\quad \hbox{Refer to chart for lamp type availability}.$
- 2 Available with Pinhole (P) trim type only.
- 3 Available in 3" and 4" aperture only.
- 4 Available with 2" aperture only.
- 5 Not available with finishes.
- Available in 4" aperture only.
 Available in 1" aperture only.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







Suitable for offices, reception areas, restaurants, showrooms, museums, retail areas and residences where wallwash accent lighting is desired.

Adjustable Lamp

Optical System

Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Self-flanged, semi-specular, matte-diffuse or specular cone with spread lens. No backflash on room side. Optical system (seamless white cast faceplate in 3" aperture) retained by two self-aligning torsion support springs. Accommodates up to two lenses. Safety lens standard with required lamp type. Relamping

capability from above or below ceiling.

Adjustment Mechanism

Tool-less 360° horizontal lamp adjustment is made with optical system lowered below ceiling. Adjustment mechanism locks to maintain lamp position during relamping.

Electrical System

Tool-less replaceable socket

assembly. Tool-less removal of electromagnetic step-down transformer and thermally activated insulation detector. In-line fusing standard.

Mounting

Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise

ceiling-to-flange alignment. Thruwire junction box with bottomhinged access covers and spring latches.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian

Ordering Information

Series	Configuration	Lamp type	Aperture		Trim color		Finish	Voltage	Options/accessories
DLV	WSH	MR16 MR11 ALR12 ALR18 AR70	3 4	PC UBC WTC CC GC BC	Clear Pewter Umber Wheat Champagne gold Gold Black ¹ White painted ^{1,2}	(blank) LD LS		120 277 347	See pages 266-271.

Catalog No.	Lamp type (Max. 75W)	Aperture	Height (H)	Length (L)	Width (W)	Ceiling opening	Overlap trim	
DLV WSH 3 DLV WSH 4	MR16, MR11, ALR12, ARL18, AR70	3 (7.6) 4-1/4 (10.8)	6-3/4 (17.1)	16-1/8 (41.0)	13-3/4 (34.9)	4-7/8 (12.4)	5-1/2 (14.0)	

NOTES:

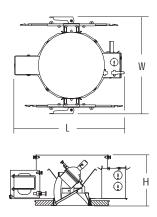
1 Not available with finishes.

Example: DLV WSH MR16 4AC 120

2 Available in 4" aperture only.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.

PSG9





243

Directional

Adjustable Lamp

Optical System

Internal housing components painted matte black. Lamp snoot minimizes stray light in housing. Lamp positioned for maximum output. Cone or chamfered aperture designed to minimize backflash. Optical system (seamless white cast faceplate in 1", 2" and 3") retained by two self-aligning torsion support springs. Accommodates up to two lenses. Safety lens standard with

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums, and retail locations where accent lighting is desired.

required lamp type. Relamping capability from above or below ceiling.

Adjustment Mechanism

0°-45° vertical and 360° horizontal adjustment. Tool-less adjustment is made with optical system lowered below ceiling for simple focusing.

Electrical System

Tool-less replaceable socket

assembly. Tool-less removal of electromagnetic step-down transformer and thermally activated insulation detector. In-line fusing standard.

Mounting

Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Thruwire junction box with bottomhinged access covers and spring latches.

Listings

Example: DLV ADJ MR16 4ACT30 120

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards

Ordering Information

Series	Configuration	Lamp type	Aperture ¹	Trim color/type	 Taper	Finish	Voltage	Options/accessories
DLV	ADJ	MR16 MR11 ALR12 ALR18 AR70	1 ² 2 3 4	AC Clear PC Pewter UBC Umber WTC Wheat CC Champagnegold GC Gold BC Black ³ WC White painted ^{3,4} MB Black baffle ^{3,5} WB White baffle ^{3,6} P Pinhole ^{3,6} S Slotted ^{3,7}	T Tapered cut cone ^{8,9} T00 Straight cut, for angles0°-15° ⁵ T20 Tapered cut, for angles 15°-25° ⁵ T30 Tapered cut, for angles 25°-45° ⁵	(blank) Semi-specular LD Matte-diffuse LS Specular	120 277 347	Seepages 266-271.

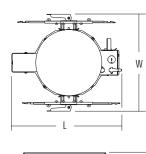
Catalog No.	Lamp type (Max. 75W)	Aperture	Height (H)	Width (W)	Length (L)	Ceiling opening	Overlap trim
DLV ADJ 1P		1 (2.5)					5-1/2 (14.0)
DLV ADJ 1S	MR16, MR11, ALR12	1 (2.5) x 2-1/4 (5.7)		13-3/4 (34.9)	16-1/8 (41.0)	4-7/8 (12.4)	
DLV ADJ 2	WINTO, WINTE, ALKEZ	2 (5.1)	6-3/4 (17.1)				
DLV ADJ 2S		2-1/16 (5.2) x 2-13/16 (7.1)	0-3/4 (17.1)	13-3/4 (34.7)	10-1/0 (41.0)	4-7/0 (12.4)	3-1/2 (14.0)
DLV ADJ 3	MR16, MR11, ALR12	3 (7.6)					
DLV ADJ 4	ALR18, ALR70	4-3/4 (12.0)					

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.

- $1\quad See chart for lamp type availability.$
- 2 Available with Pinhole (P) or Slotted (S) trim type only.
- 3 Not available with finishes.
- $4\quad \hbox{Available\,in}\, 4" aperture\, only.$
- 5 Available in 3" and 4" aperture only.
- 6 Available in 1" aperture only.
- 7 Available in 1" and 2" apertures only.
- $8\quad \text{Available in 2" aperture only}.$
- 9 Not available with WC, MB, or WB.









Suitable for offices, reception areas, restaurants, showrooms, museums, and retail locations where accent lighting is desired.

DIV

Adjustable Lamp

Optical System

Self-flanged, semi-specular, mattediffuse or specular cone designed to minimize backflash. Contour cut minimizes visibility of inner housing. Center Beam optical system centers lamp relative to the aperture, optimizing lamp efficiency. Optical system retained by two self-aligning torsion support springs. Relamping capability from above or below ceiling. Safety lens standard with required lamp type.

Adjustment Mechanism

Tool-less 0°- 40° vertical and 360° horizontal adjustment. Hot lamp aiming capability. Lockable adjustment mechanisms maintain lamp position and are visible from below the ceiling with optical system removed.

Electrical System

Tool-less replaceable socket assembly. Tool-less removal of electromagentic step-down transformer and thermally activated insulation detector. In-line fusing standard.

Mounting

Rolled steel housing with matte black finish and plaster flange. Expandable, self-locking mounting bars provide horizontal and vertical adjustment. Secondary housing adjustment system for precise ceiling-to-flange alignment. Tool-less access door to thru-wire junction box.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Series DLV	Lamp type AR70 AR111 MR16 PAR36 PAR56	Aperture ² 6 8	Trim color/type AC Clear PC Pewter UBC Umber WTC Wheat CC Champagnegold GC Gold BC Black ³ WC White painted ³ MB Black baffle ³ WB White baffle ³	Taper T00 Straight cut, for angles 0°-15° T20 Tapered cut, for angles 15°-25° T30 Tapered cut, for angles 25°-45°	Finish (blank) Semi-specular LD Matte-diffuse LS Specular	Voltage 120 277 347	Options/accessories Seepages 266-271.
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	Catalog No.	Lamp type	Max. Wattage	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
Ī	DLV 6	AR70, AR111, MR16, PAR36	100	12-1/8 (30.8)	22 (55.9)	19-3/4 (50.2)	6-1/4 (15.9)	6-7/8 (17.5)	7-1/2 (19.1)
	DLV 8	AR70, AR111, MR16, PAR36, PAR56	240	12-1/8 (30.8)	22 (55.9)	19-3/4 (50.2)	7-7/8 (20.1)	8-7/8 (22.5)	9-1/4 (23.1)

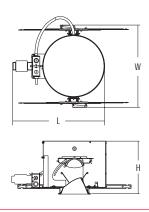
NOTES:

1 Available in 120V only.

Example: DLV MR16 6ACT00 120

- See chart for lamp type availability.
- 3 Not available with finishes.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







Downlight

Vertical Lamp

APRLV

PAR 36 or AR111

Intended Use

Suitable for offices, reception areas, restaurants, showrooms, museums and retail locations where accent lighting is desired.

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom. Patent-pending integrated snoot and optical system minimizes lamp

striations normally associated with PAR lamps and creates visually pleasing scallops on vertical surfaces.

Electrical System

Die-cast aluminum lampholder housing. Electromagnetic step-down transformer is mounted to junction box cover. Thermally-activated insulation detector. In-line fusing

standard, Lampholder optimally positions either a PAR36 or AR111 lamp. Safety glass is included for AR111.

Mounting

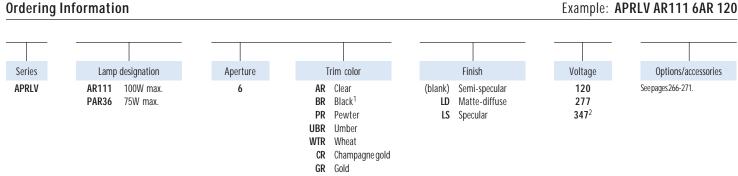
16-gauge galvanized steel mounting/plaster frame with thruwire junction box. Integral yoke and flat spring utilized to retain optical

system. Expandable, self-locking mounting bars provide horizontal and vertical adjustment.

Listings

Fixtures are UL Listed for thrubranch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian

Ordering Information



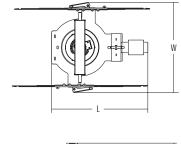
Catalog No.	Max. wattage/ lamp	Height (H)	Length (L)	Width (W)	Aperture	Ceiling opening	Overlap trim
APRLV	100W AR111 75W PAR36	11-1/4 (28.6)	16-1/4 (41.3)	15-7/8 (40.3)	6-1/4 (15.9)	7-1/8 (18.1)	7-1/2 (19.1)

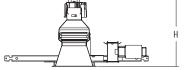
Notes:

- 1 Not available with finishes.
- 2 75W maximum.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.

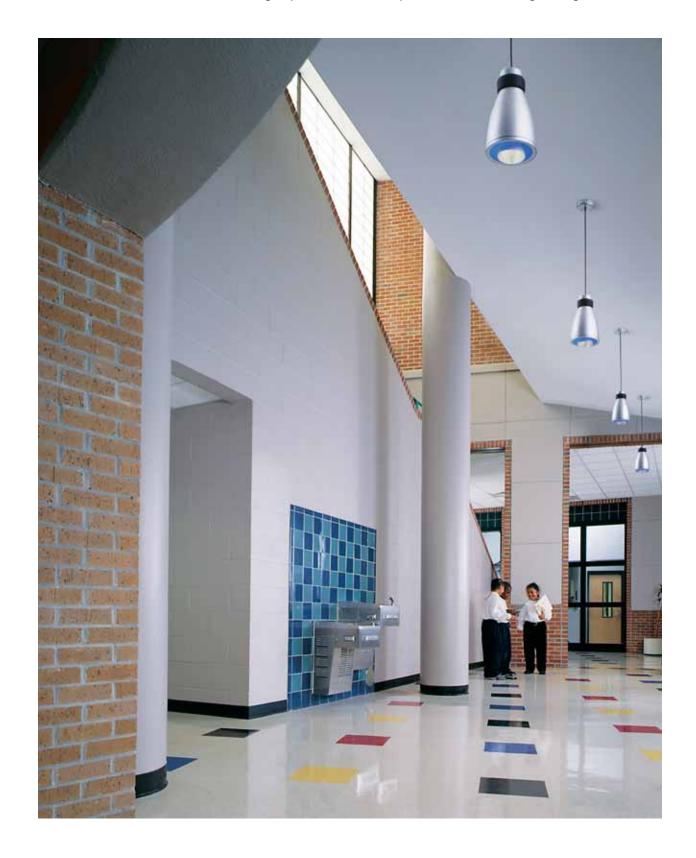








$Elevations^{\mathsf{TM}} \ \ \mathsf{High} \ \mathsf{performance} \ \mathsf{pendant} \ \mathsf{downlighting}$



Decorative Downlight Pendant

PDPF

Horizontal Lamp

Candéo® Triple-Tube (TRT)

Decorative Housing

Durable, heavy gauge aluminum housing. Textured polyester powder paint finish available in Matte black or Satin silver. The housing is available in short or tall configurations to allow for a variety of ceiling height applications.

Decorative Elements

Four configurations allow customization suitable in any space: No ring (no decorative element);

Intended Use

Decorative luminaire designed to accentuate the space, adding visual interest.

Soft ring (subtle, formed aluminum bond polyester paint - black); Stacked rings (four injection-molded black acrylic rings); Gear (precision

black acrylic rings); Gear (precision formed from solid aluminum - polyester powder paint - black).

Optical System

Candéo® self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom. Reflector flange visually integrates with housing. Hinged lamp door seals upper trim for optimal fixure efficiency. Inner reflector is field adjustable to three settings that place the reflector flush, 3/8" or 3/4" from the bottom edge of the decorative housing.

Electrical System

Horizontally-mounted, four-pin, positive latch thermoplastic sockets.

Class P, thermally-protected, high power factor electronic ballast.

Mounting

RC120-black cord is provided for electrical connection of luminaire to surface-mounted canopy (120" standard).

Listings

Example: PDPF 2/32TRT 8DW MVOLT TSS RC120

Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

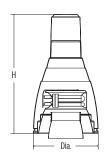
Series	Wattage/lamp	Reflector/diffuser color	Finish	Voltage	Housing	Color	Decorative elements ²	Mounting method ²	Options/accessories
PDPF	2/32TRT	8DW Snow 8DG Sea 8DB Sky 8DT Tan	(blank) Semi-specular LD Matte-diffuse	120 277 347 MVOLT ¹	S Short T Tall	B Matte blackS Satin silver	NR No ring S Soft ring C Stacked rings G Gear	RC120 Cord mount (120" provided) SM Surface mount	Seepages253,266-271.

Catalog No.	Height (H) (Short)	Height (H) (Tall)	Aperture	Diameter
PDPF	14-7/8 (37.7)	17-5/8 (44.8)	7-7/8 (20.1)	9-3/8 (23.5)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$







- 1 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.
- 2 Refer to page 253 for decorative and mounting options.

Decorative luminaire designed to accentuate the space, adding visual interest.

PDPF

Horizontal Lamp

ICE™ Triple-Tube (TRT)

Decorative Housing

Durable, heavy gauge aluminum housing. Textured polyester powder paint finish available in Matte black or Satin silver. The housing is available in short or tall configurations to allow for a variety of ceiling height applications.

Decorative Elements

Four configurations allow customization suitable in any space: No ring (no decorative element); Soft ring (subtle, formed aluminum bond polyester paint - black); Stacked rings (four injection-molded black acrylic rings); Gear (precision formed from solid aluminum -

polyester powder paint - black).

Optical System

ICE™ self-flanged, matte-diffuse reflector. Fluted vertical upper section works in conjunction with Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom. Reflector flange visually integrates with housing. Hinged lamp door seals upper trim for optimal fixture efficiency.

Cross Baffle

Acrylic cross baffle with surface that

provides a decorative edge-glow appearance. Available in three distinctive styles - flush, round and angular.

ICE™ Color Cross Baffle

Red, blue, amber or white acrylic cross baffle, jacketed with aluminum (U.S. Patent No. 6,273,592) provides a vibrant edgeglow color appearance. Available in flush or round baffle styles.

Turbo Baffle

Clear acrylic three-spoke turbo baffle with surface that provides a decorative edge-glow appearance.

Electrical System

Horizontally-mounted, four-pin, positive latch thermoplastic sockets. Class P, thermally-protected, high power factor electronic ballast.

Mounting

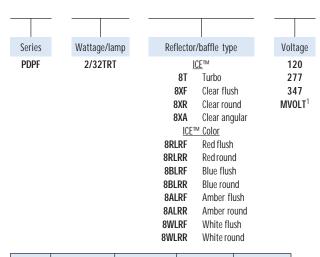
RC120-black cord is provided for electrical connection of luminaire to surface-mounted canopy (120" standard).

Listings

Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

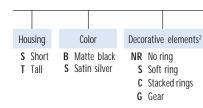
Ordering Information

Example: PDPF 2/32TRT 8T MVOLT TSC RC120



Catalog	Height (H)	Height (H)		
No.	(Short)	(Tall)	Aperture	Diameter
PDPF	14-7/8 (37.7)	17-5/8 (44.8)	7-7/8 (20.1)	9-3/8 (23.5)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

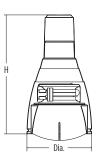


Mour	ating method ²	
RC120 SM	Cord mount (120" provided) Surface mount	

nount Seepages253,266-271. provided) e mount

Options/accessories

- 1 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.
- 2 Refer to page 253 for decorative and mounting options.





Decorative Downlight Pendant

PDPF

Horizontal or Vertical Lamp

Triple-Tube (TRT)

Decorative Housing

Durable, heavy gauge aluminum housing. Textured polyester powder paint finish available in Matte black or Satin silver. The housing is available in short or tall configurations to allow for a variety of ceiling height applications.

Decorative Elements

Four configurations allow customization suitable in any space: No ring (no decorative element); Soft ring (subtle, formed aluminum

Intended Use

Decorative luminaire designed to accentuate the space, adding visual interest.

bond polyester paint - black); Stacked rings (four injection-molded black acrylic rings); Gear (precision formed from solid aluminum polyester powder paint - black).

Optical System

Self-flanged semi-specular or matte-diffuse reflector. Patented Vertisys® - Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom.

Reflector flange visually integrates with housing.

Electrical System

Positive-latch, thermoplastic socket(s). Class P, thermallyprotected, high power factor electronic ballast.

Mounting

Surface-mounted canopy attaches directly to J-box and provides handsfree electrical connection. Canopy also serves as ballast compartment.

Emergency back-up available - test switch integral to ballast housing. RC120-black cord is provided for electrical connection of luminaire to surface-mounted canopy (120" standard). SM - Luminaire is mounted directly to the surfacemounted canopy.

Listings

Example: PDPF 32TRT 8AR MVOLT TSNR RC120

Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Carias	Mattagallaga	Deflector color	Finish	Lana hima	Voltono	Hausing	Color	Decembra alamanta?	Maunting	Ontions/ssessies
Series	Wattage/lamp	Reflector color	Finish	Lens type	Voltage	Housing	Color	Decorative elements ²	Mounting me	ethod ² Options/accessories
PDPF	Horizontal 2/32TRT Vertical 26TRT 32TRT 42TRT	8AR Clear 8PR Pewter 8UBR Umber 8WTR Wheat	(blank) Semi- specular LD Matte- diffuse	(blank) No lens CGL Clear glass lens T73 Tempered prismatic lens	120 277 347 MVOLT ¹	S Short T Tall	B Matte black S Satin silver	NR No ring S Soft ring C Stacked rings G Gear	(120	vided) face

Ca	talog	Height (H)	Height (H)		
	No.	(Short)	(Tall)	Aperture	Diameter
Р	DPF	14-7/8 (37.7)	17-5/8 (44.8)	7-7/8 (20.1)	9-3/8 (23.5)

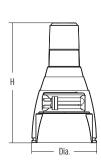
NOTES:

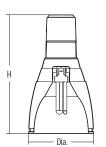
- 1 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.
- 2 Refertopage 253 for decorative and mounting options.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.









www.gothamlighting.com, keyword: PDPF

Decorative luminaire designed to accentuate the space, adding visual interest.



Decorative Housing

Durable, heavy gauge aluminum housing. Textured polyester powder paint finish available in Matte black or Satin silver. The housing is available in short or tall configurations to allow for a variety of ceiling height applications.

Decorative Elements

Four configurations allow customization suitable in any space: No ring (clean, simple form - no decorative element); Soft ring

(subtle, formed aluminum bond polyester paint - black); Stacked rings (four injection-molded black acrylic rings); Gear (precision formed from solid aluminum polyester powder paint - black).

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of

reflector to bottom. Reflector flange visually integrates with housing.

Electrical System

Die-cast aluminum socket housing. Medium-base porcelain socket with nickel-plated screw shell. Electronic HID ballast.

Mounting

Surface-mounted canopy attaches directly to J-box and provides handsfree electrical connection. Canopy also serves as ballast compartment. RC120-black cord is provided for electrical connection of luminaire to surface-mounted canopy (120" standard). SM - Luminaire is mounted directly to the surface-mounted canopy.

Listings

Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

150MHC

Example: PDPH 100M 8AR 120 HEB SBG RC120

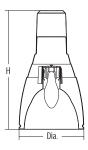
Series	Wattage/lamp ¹	Reflector color	Finish	Lens type	Voltage	Ballast	Housing	Color	Decorative elements ²	Mounting method 2	Options/accessories
PDPH	Metal Halide 50M 70M 100M 150M eramic Metal Halid 50MHC 70MHC 100MHC	8AR Clear 8PR Pewter 8UBR Umber 8WTR Wheat	(blank) Semi- specular LD Matte- diffuse	(blank) No lens CGL Clear glass lens T73 Tem- pered prismatic lens	120 277	HEB Electronic ballast	S Short T Tall	B Matte black S Satin silver	NR No ring S Soft ring C Stacked rings G Gear	RC120 Cord mount (120" provided) SM Surface mount	See pages 253, 266-271.

Catalog	Height (H)	Height (H)		
No.	(Short)	(Tall)	Aperture	Diameter
PDPH	14-7/8 (37.7)	17-5/8 (44.8)	7-7/8 (20.1)	9-3/8 (23.5)

NOTES:

- 1 Recommended for use with coated lamps.
- 2 Refer to page 253 for decorative and mounting options.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.





Decorative Downlight Pendant

PDPA

A21, A23 or PS25 Lamp

Intended Use

Decorative luminaire designed to accentuate the space, adding visual interest.

Decorative Housing

Durable, heavy gauge aluminum housing. Textured polyester powder paint finish available in Matte black or Satin silver. The housing is available in short or tall configurations to allow for a variety of ceiling height applications.

Decorative Elements

Four configurations allow customization suitable in any space: No ring (clean, simple form - no

decorative element); Soft ring (subtle, formed aluminum bond polyester paint - black); Stacked rings (four injection-molded black acrylic rings); Gear (precision formed from solid aluminum - polyester powder paint - black).

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom. Reflector flange visually integrates with housing.

Electrical System

Die-cast aluminum socket housing. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

Surface-mounted canopy attaches

directly to J-box and provides handsfree electrical connection.

RC120 — black cord is provided for electrical connection of luminaire to surface-mounted canopy (120" standard). SM — luminaire is mounted directly to the surface-mounted canopy.

Listings

Fixtures are UL listed for damp locations. Listed and labeled to comply with Canadian Standards.

Example: PDPA 8AR SSS RC120

Ordering Information

Series	Ref	lector/color		Finish	Le	ns type¹	Но	ousing	Color	Decorati	ive elements ²	Moun	ting method ²	Options/	accessories
PDPA	8UBR 8WTR 8CR	Clear Pewter Umber Wheat Champagne gold	LS	Semi-specular Matte-diffuse Specular	, ,	No lens Clear glass lens Tempered prismatic lens		Short Tall	Matte black Satin silver	S C	No ring Soft ring Stacked rings Gear		Cord mount (120" provided) Surface mount	See pages 2	253,266-271.

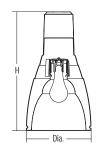
Catalog	Max. wattage	Height (H)	Height (H)		Overall
No.	lamp	(Short)	(Tall)	Aperture	Diameter
PDPA	300W PS25	14-7/8 (37.7)	17-5/8 (44.8)	7-7/8 (20.1)	9-3/8 (23.5)

NOTES:

- 1 Maximum lamp wattage for lensed units
- 2 Refertopage 253 for decorative and mounting options.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.









S - Soft ring



G - Gear



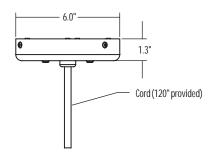
C - Stacked rings

Cord mount (120" provided)

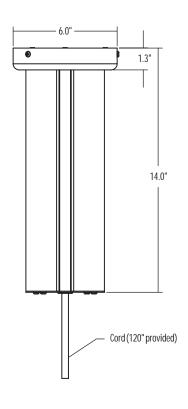
PDPA/PDPF-Candéo®,ICE™

Mounting canopy attaches directly to J-Box

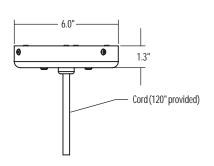
RC120



PDPH/PDPF EL Mounting canopy attaches directly to J-Box RC120



PDPF - Vertical Mounting canopy attaches directly to J-Box RC120



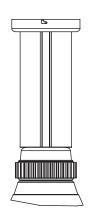
Surface Mount

PDPA/PDPF-Candéo®,ICE™ Mounting canopy attaches directly to J-Box SM



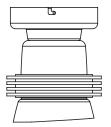
Drawings are for dimensional detail only and may not represent actual mechanical configuration.

PDPH/PDPF EL Mounting canopy attaches directly to J-Box SM



www.gothamlighting.com

PDPF - Vertical Mounting canopy attaches directly to J-Box SM





Open Cylinders

CFV

Vertical Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Vertisys® - Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, lamp image that reflects smoothly from the top of the reflector to the aperture, and

Intended Use

Provides general illumination with superior brightness control. Lamp and aperture combinations allow for use in atriums, corridors, restrooms, retail areas, public areas and transit areas.

optimal fixture performance and efficiency.

Housing

Heavy-gauge aluminum housing with top deck for clean appearance. Reflector edge seats flush with cylinder wall for clean, one-piece appearance.

Electrical System

Vertically-mounted, positive-latch, thermoplastic socket. Class P, thermally-protected, high power factor ballast.

Mounting

Ceiling mount (standard) offers patented quick-mount attachment

plate for direct installation (U.S. Patent No. 4,300,190). Wall mount or pendant mount available.

Listings

Example: CFV9 26TRT 8AR 120 DWHG

Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Series ¹	Wattage/lamp	Aperture	Trim color	Finish	Voltage	Options/accessories	Color
CFV9 ³	13DTT 18DTT 26DTT 18TRT 26TRT 32TRT 42TRT	6 8	AR Clear PR Pewter UBR Umber WTR Wheat	(blank) Semi-specular LD Matte-diffuse	120 277 347 MVOLT ⁴	See pages 266-271.	DWHG Matte white (standard) DDB Dark bronze DBL Black DNA Natural aluminum DWH Gloss white DTG Tennis green DGC Charcoal grey DSS Sandstone

Catalog No.	Aperture	Diameter	Height (H)	Wall mount width (W)
CFV8	6 (15.2)	7-5/8 (19.4)	15-1/2 (39.4)	10-7/8 (27.6)
CFV9	8 (20.3)	9-3/8 (23.8)	16 (40.6)	12-5/8 (32.1)

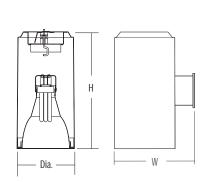
NOTES:

- 1 Matte white finish (DWHG) standard.
- 2 Available in 6" aperture only.
- 3 Available in 8" aperture only.
- 4 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







Provides general illumination for school, retail and transit areas. Lens options provide a variety of distributions.

CFVI

Vertical Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

White painted upper reflector.

Door

Regressed door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Lens

Available with tempered prismatic

lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).

Housing

Heavy-gauge aluminum housing with top deck for clean appearance. Reflector edge seats flush with cylinder wall for clean, one-piece appearance.

Electrical System

Vertically-mounted, four-pin positive-latch thermoplastic socket. Class P, thermally-protected, high power factor electronic ballast.

Mounting

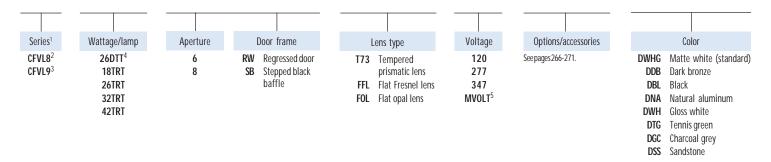
Ceiling mount (standard) offers patented, quick-mount attachment plate for direct installation (U.S.

Patent No. 4,300,190). Wall mount or pendant mount available.

Listings

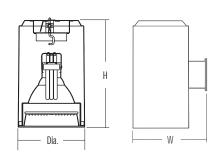
Fixtures are UL Listed for wet locations. Wall and pendant mounted options are UL Listed for non-covered ceiling installations. Listed and labeled to comply with Canadian Standards.

Ordering Information Example: CFVL9 26TRT 8RW T73 120 DWHG



Catalog No.	Aperture	Diameter	Height (H)	Wall mount width (W)
CFVL8	6 (15.2)	7-5/8 (19.4)	15-1/2 (39.4)	10-7/8 (27.6)
CFVL9	8 (20.3)	9-3/8 (23.8)	16 (40.6)	12-5/8 (32.1)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



www.gothamlighting.com, keyword: CFVL



NOTES:

Mattewhite finish (DWHG) standard.
 Available in 6" aperture only.
 Available in 8" aperture only.
 Requires four-pin lamp, ships as a TRT fixture.
 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50or 60 HZ.



Open Cylinders

CF

Horizontal Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray[™] Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image, and smooth transition from top of reflector to bottom.

Intended Use

Provides general illumination with superior brightness control. Lamp and aperture combinations allow for use in atriums, corridors, restrooms, retail areas, public areas and transit areas.

Housing

Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

Electrical System

Horizontally-mounted, positivelatch, thermoplastic socket(s). Class P, thermally protected, high power factor ballast(s).

Mounting

Ceiling mount (standard), wall

mount or pendant mount available.

Listings

Example: CF11 2/26TRT 10AR 120 DWHG

Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

		1						
Series ¹	No. of lamps	Wattage/lamp	Aperture ⁶	Trim color	Finish	Voltage	Options/accessories	Color
CF10 ² CF11 ³	1 2 3 ⁴	13DTT 18DTT 26DTT 18TRT 26TRT 32TRT 42TRT 57TRT ⁵	6 8 10	AR Clear PR Pewter UBR Umber WTR Wheat	(blank) Semi-specular LD Matte-diffuse	120 277 347 MVOLT ⁷	See pages 266-271.	DWHG Matte white (standard) DDB Dark bronze DBL Black DNA Natural aluminum DWH Gloss white DTG Tennis green DGC Charcoal grey DSS Sandstone

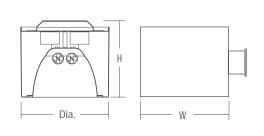
С	atalog No.	Aperture	No. of lamps/ lamp type	Diameter	Height (H)	Wall mount width (W)
	CF10	6 (15.2)	1 or 2 DTT/1 TRT	9-3/4 (24.8)	9-5/8 (24.4)	13 (33.0)
	CF11	8 (20.3)	1 or 2 DTT/1 TRT	10-3/4 (27.3)	10-5/8 (27.0)	14 (35.6)
Г	CF11	10 (25.4)	1, 2 or 3 DTT/1 or 2 TRT	11-5/16 (28.7)	10-1/4 (26.0)	14-9/16 (37.0)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.

NOTES:

- 1 Matte white finish (DWHG) standard.
- 2 Available in 6" aperture only.
- 3 Available in 8" or 10" aperture only.
- 4 Available in 10" aperture DTT lamps only.
- 5 Available in single lamp 10" aperture only.
- 6 Refer to chart for number of lamps and lamp type availability.
- 7 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.





www.gothamlighting.com, keyword: CF

Provides general illumination for low to mid height ceilings. Use in corridors, restrooms, retail areas or offices. Cross baffle controls brightness and complements parabolic luminaires.

CF7

Horizontal Lamp

Double Twin-Tube (DTT)

Optical System

Specular clear upper reflector. Selfflanged, semi-specular or mattediffuse cross baffle. Optical system optimally balances brightness control and high efficiency. Lamp is visible before reflected lamp image.

Housing

Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give floating luminaire appearance.

Electrical System

Horizontally-mounted, positivelatch, thermoplastic sockets. Class P, thermally-protected, high power factor ballast(s).

Mounting

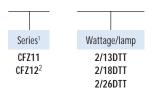
Ceiling mount (standard), wall

mount or pendant mount available.

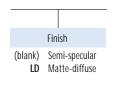
Listings

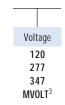
Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information

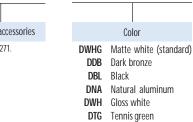












Example: CFZ11 2/26DTT 84A 120 DWHG

NOTES

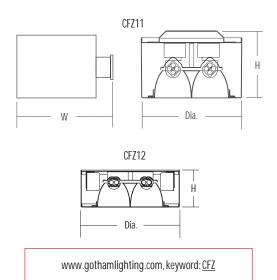
1 Matte white finish (DWHG) standard.

DGC Charcoal greyDSS Sandstone

- 2 Available in ceiling mounted units only.
- 3 Multi-voltelectronicballastcapableofoperating on any line voltage from 120V through 277V, 50 or 60 HZ.

Catalog Wall mount Diameter Height (H) width (W) No. Aperture CFZ11 8 (20.3) 10-3/4 (27.3) 7-1/4 (18.4) 14 (35.6) CFZ12 8 (20.3) 12 (30.5) 4-1/2(11.4) N/A

 $Drawings \ are for dimensional \ detail only \ and \ may \ not \ represent \ actual \ mechanical \ configuration.$ $Dimensions \ are \ shown \ in \ inches \ (centimeters) \ unless \ otherwise \ noted.$





Lensed, Wet Location Cylinders

CFL

Horizontal Lamp

Double Twin-Tube (DTT) Triple-Tube (TRT)

Optical System

White painted upper reflector.

Door

Regressed door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion support springs.

Intended Use

Provides general illumination for schools, retail and transit areas. Lens options provide a variety of distributions.

Lens

Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).

Housing

Aluminum housing with integral bottom deck for clean appearance. Reveal on standard ceiling and optional pendant mount give

floating luminaire appearance.

Electrical System Horizontally-mounted, positive-latch thermoplastic socket(s). Class P,

thermally-protected, high power

factor electronic ballast(s). Mounting

Ceiling mount (standard), wall

mount or pendant mount available.

Listings

Example: CFL10 1/26TRT 6RW T73 120 DWHG

Fixtures are UL Listed for wet locations. Wall and pendant mounted options are UL Listed for wet locations in non-covered ceiling installations. Listed and labeled to comply with Canadian Standards.

Ordering Information

Aperture Lens type Voltage Series1 No. of lamps Wattage/lamp Door frame Options/accessories Color 26DTT⁴ CFL10² See pages 266-271. RW Regressed door T73 Tempered 120 DWHG Matte white **2**³ prismatic lens (standard) **CFL11**³ 18TRT Stepped black 277 FFL DDB Flat Fresnel lens Dark bronze 26TRT baffle 347 FOL Flat opal lens DBL Black 32TRT MVOLT5 DNA Natural aluminum 42TRT Gloss white

Catalog No.	Aperture	Diameter	Height (H)	Wall mount width (W)
CFL10	6 (15.2)	9-3/4 (24.8)	9-5/8 (24.4)	13 (33.0)
CFL11	8 (20.3)	10-3/4 (27.3)	10-5/8 (27.0)	14 (35.6)

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.

NOTES:

- 1 Matte white finish (DWHG) standard.
- Available in 6" aperture only.

DTG

DGC

DSS

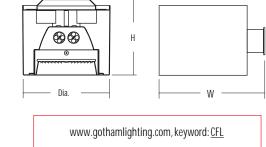
Tennis green

Charcoal grey

Sandstone

- $3\quad \text{Available}\, \text{in}\, 8\text{''}\, \text{aperture}\, \text{only}.$
- 4 Requires a four-pin lamp, ships as a TRT fixture.
- 5 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 HZ.





Provides general illumination with superior brightness control. Surface, wall or pendant mount available. Appropriate for interior applications with mid to high ceilings, such as atriums, auditoriums and transit areas, or in exterior overhangs for retail and office buildings.

Vertical Lamp

Optical System

Self-flanged, semi-specular or matte-diffuse reflector. Optical system optimally balances brightness control and high efficiency.

Housing

Heavy-gauge aluminum. Reveal on ceiling and pendant mount give floating luminaire appearance.

Electrical System

Pre-wired, HPF, core-and-coil ballast mounted to removable power door

with quick disconnect for ease of installation/maintenance. Porcelain socket with nickel-plated screw shell.

Mounting

Ceiling mount, wall mount or pendant mount available.

Listings

UL Listed for damp locations (11" and 13") or wet locations (15") for non-covered ceiling installations. Listed and labeled to comply with Canadian Standards.

Ordering Information

_												
	Series ¹	Diameter ³	Wattage/lamp⁴	Tri	m color		Finish	Vol	Itage	Options/accessories		Color
CC CP CW	Ceiling mount Pendant mount ² Wall mount	11 13 15	Metal Halide 50M5 70M5 100M5 150M5 175M5 250M5 320M5 320M5 350M5 400M Ceramic Metal Halide5 50MHC 70MHC 100MHC	AI PI UBI WTI	R Pewter R Umber	(blank) LD	Semi-specular Matte-diffuse	2 2 2	20 08 40 77 47	See pages 266-271.	DWHG DDB DBL DNA DWH DTG DGC DSS	Matte white (standard) Dark bronze Black Natural aluminum Gloss white Tennis green Charcoal grey Sandstone

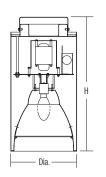
Catalog			Height	Wall mount	ı
No.	Max. wattage	Diameter	(H)	width (W)	ı
CC11	100	11-1/8 (28.3)	22-1/2 (57.2)	16 (40.6)	ĺ
CC13	250	13-1/8 (33.3)	24-1/2 (62.2)	18 (45.7)	ĺ
CC15	400	15-1/4 (38.7)	25-1/2 (64.8)	20-1/8 (51.1)	

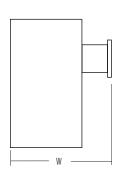
 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.$ Dimensions are shown in inches (centimeters) unless otherwise noted.

NOTES:

Example: CC13 175M AR 120 DWHG

- $1\quad \text{Matte white finish (DWHG) standard}.$
- 3/8" thread mount, order stem separately.
- 3 Refer to chart for maximum wattage availability.
- 4 150W and lower metal halide lamps use $medium-base\,socket.\,Recommended\,for$ use with coated lamps.
- 5 Tempered safety lens provided.





www.gothamlighting.com, keyword: CC



Lensed, Wet Location Cylinders

C

Vertical Lamp

Intended Use

Provides general illumination with superior brightness control. Surface, wall or pendant mount available. Appropriate for mid to high ceiling applications such as exterior columns and facades.

Optical System

Semi-specular clear anodized aluminum upper reflector.

Doo

Regressed aluminum door frame with Fresnel lens.

Housing

Heavy-gauge aluminum.

Electrical System

Pre-wired, HPF core-and-coil ballast mounted to removable power door with quick disconnect for ease of

installation/maintenance. Porcelain socket with nickel-plated screw shell.

Mounting

Ceiling mount, wall mount or pendant mount available.

Listings

Fixtures are UL Listed for wet locations for non-covered ceiling installations. Listed and labeled to comply with Canadian Standards.

Example: **CEW13 175M 120 DWHG**

Ordering Information

	Series ¹	Diameter ³	
CEP	Ceiling mount Pendant mount ² Wall mount	10 13	

Wattage/lamp⁴

Metal Halide
50M
70M
100M
150M
175M
250M
Ceramic Metal Halide
50MHC

ramic Metal Hal 50MHC 70MHC 100MHC 150MHC

Voltage
120
208
240
277
347

Options/accessories
Seepages266-271.

	Color	
DWHG Matte white		
	(standard)	
DDB	Dark bronze	
DBL	Black	
DNA	Natural aluminum	
DWH	Gloss white	
DTG	Tennis green	
DGC	Charcoal grey	
DSS	Sandstone	

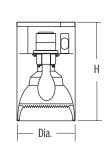
NOTES:

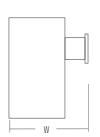
- 1 Matte white finish (DWHG) standard.
- 2 3/8" thread mount, order stem separately.
- Refer to chart for maximum wattage availability.
- 4 150W and lower metal halide lamps use medium-base socket. Recommended for use with coated lamps.

Catalog No.	Aperture	Diameter	Height (H)	Wall mount width (W)
CEC10	100W	10 (25.4)	18-1/4 (46.4)	13-1/8 (33.3)
CEC13	250W	13 (33.0)	23-3/8 (59.4)	17-7/8 (45.4)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.







www.gothamlighting.com, keyword: CE

Provides general illumination in schools, retail or other mid- to high-ceiling applications where simple, inexpensive dimming and superior color rendering are required. Brightness control is achieved with a black baffle system.

 CA

Vertical Lamp

PAR38

Optical System Black baffle.

Housing

Hydroformed aluminum housing.

Electrical System

Medium-base porcelain socket with nickel-plated screw shell.

Mounting

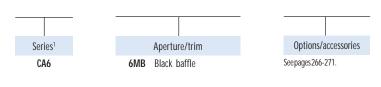
Ceiling mount (standard) wall mount or pendant mount available.

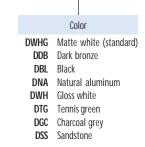
Pendant mount option requires 1/4" IPS stem Gotham® nomenclature for stem and hang straight swivel is "CAS." Length of stem must be specified (from 6" to 48" in 6" increments).

Listings

Fixtures are UL Listed for damp locations. Wall mounted option is UL Listed for wet locations for non-covered ceiling installations. Listed and labeled to comply with Canadian Standards.

Ordering Information Example: CA6 6MB DWHG



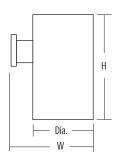


Catalog No.	Max. wattage/ lamp²	Diameter	Height (H)	Wall mount width (W)
CA6	150W PAR38	5-7/8 (14.9)	9-5/8 (24.4)	7-3/16 (18.3)

NOTES:

- 1 Mattewhite finish (DWHG) standard.
- Maximum wattage for wall mount option is Q250W PAR38.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.





Open Cylinders

CA

Vertical Lamp

Intended Use

Provides general illumination with superior brightness control. Appropriate for mid to high ceilings. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

Optical System

Self-flanged, semi-specular, mattediffuse or specular reflector. Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) provides lamp before lamp image and smooth transition from top of reflector to bottom.

Housing

Heavy-gauge aluminum housing with top deck for clean appearance. Relector edge seats flush with cylinder wall for clean, one-piece appearance.

Electrical System

Die-cast aluminum socket housing.

Medium-base porcelain socket with nickel-plated screw shell.

Mounting

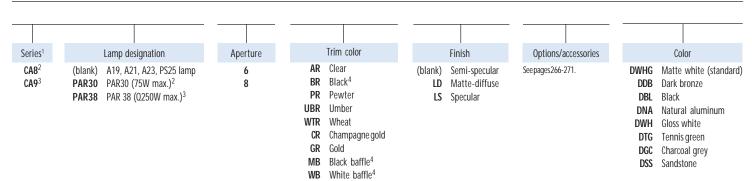
Ceiling mount (standard) offers patented quick-mount attachment plate for direct installation (U.S. Patent No. 4,300,190). Wall mount or pendant mount available.

Listings

Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Example: CA8 6AR DWHG

Ordering Information



Catalog No.	Max. wattage/ lamp	Aperture	Diameter	Height (H)	Wall mount width (W)
CA8	150W A21 75W PAR30	6 (15.2)	7-5/8 (19.4)	15-1/2 (39.4)	10-7/8 (27.6)
CA9	300W PS25 Q250W PAR38	8 (20.3)	9-3/8 (23.8)	16 (40.6)	12-5/8 (32.1)

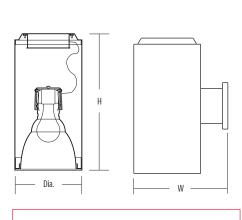
NOTES:

- 1 Matte white finish (DWHG) standard.
- 2 Available in 6" aperture only.
- 3 Available in 8" aperture only.
- 4 Not available with finishes.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.







www.gothamlighting.com, keyword: CA

Provides general illumination with superior brightness control. Appropriate for mid to high ceilings. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

CAL

Vertical Lamp

Optical System

White painted upper reflector.

Door

Regressed door (RW) or stepped black baffle (SB) are available. Door is retained by two self-aligning, torsion suppport springs.

Lens

Available with tempered prismatic lens (T73) flat Fresnel lens (FFL) or flat opal lens (FOL).

Housing

Heavy-gauge aluminum housing with top deck for clean appearance. Reflector edge seats flush with

cylinder wall for clean, one-piece appearance.

Electrical System

Die-cast aluminum socket housing. Medium-base porcelain socket with nickel-plated screw shell.

Mounting

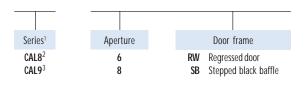
Ceiling mount (standard) offers

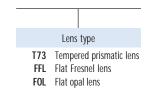
patented quick-mount attachment plate for direct installation (U.S. Patent No. 4,300,190). Wall mount or pendant mount available.

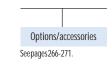
Listings

Fixtures are UL Listed for wet locations. Listed and labeled to comply with Canadian Standards.

Ordering Information









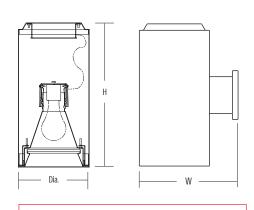
Example: CAL8 6RW T73 DWHG

Catalog Max. wattage/ Height Wall mount (H) width (W) No. lamp Aperture Diameter CAL8 150W A21 6 (15.2) 7-5/8 (19.4) 15-1/2 (39.4) 10-7/8 (27.6) CAL9 200W A23 8 (20.3) 9-3/8 (23.8) 16 (40.6) 12-5/8 (32.1)

NOTES:

- 1 Matte white finish (DWHG) standard.
- 2 Available in 6" aperture only.
- 3 Available in 8" aperture only.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.



www.gothamlighting.com, keyword: CAL



Quartz Cylinders

CC

Vertical Lamp

Quartz Halogen T4 Lamp

and lower cone to provide highintensity light output through a small aperture, while maintaining high efficiency and minimizing

Intended Use

Provides general illumination with superior brightness control. Appropriate for applications with high ceilings such as churches, malls or auditoriums.

Optical System

Anodized upper ellipsoidal reflector high-angle brightness. Lower cone

is self-flanged, semi-specular, matte-diffuse or specular.

Housing

Heavy-gauge aluminum housing. Reveal on ceiling and pendant mount give floating luminaire appearance.

Electrical System

Extruded aluminum, heatdissipating socket housing. Heavy duty mini-can socket.

Mounting

Ceiling mount, wall mount or

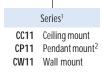
pendant mount available.

Example: CC11 250T 8AC DWHG

Listings

Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information













(blank) Semi-specular LD Matte-diffuse LS Specular



Options/accessories See pages 266-271.

	Color		
DWHG	Matte white (standard)		
DDB Dark bronze			
DBL Black			
DNA Natural aluminum			
DWH	Gloss white		
DTG	Tennis green		
DGC	Charcoal grey		
DSS	Sandstone		

Catalog			Height	Wall mount
No.	Aperture	Diameter	(H)	width (W)
CC11	8 (20.3)	11 (27.9)	17-1/2 (44.5)	15-7/8 (40.3)

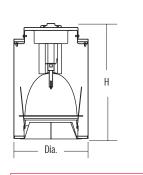
NOTES:

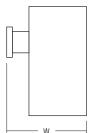
- 1 Matte white finish (DWHG) standard.
- 2 3/8" thread mount, order stem separately.
- 3 Not available with finishes.

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, configuration.$ Dimensions are shown in **inches (centimeters)** unless otherwise noted.









www.gothamlighting.com, keyword: CC

Provides direct and indirect light with superior brightness control. Appropriate for mid to high ceilings. Use in schools, retail or other areas where simple, inexpensive dimming and excellent color rendering are required.

CWU

Vertical Lamp

PAR

Optical System

Self-flanged, semi-specular, mattediffuse or specular cone maximizes lamp output while minimizing highangle brightness.

Housing

Heavy-gauge aluminum housing.

Electrical System

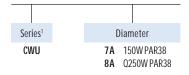
Extruded aluminum, heatdissipating socket housing. Mediumbase porcelain sockets with nickelplated screw shell.

Mounting Wall mount.

Listings Fixtures are

Fixtures are UL Listed for damp locations. Listed and labeled to comply with Canadian Standards.

Ordering Information



Trim color

AC Clear

PC Pewter

UBC Umber **WTC** Wheat

CC Champagne gold

GC Gold

BC Black²

WC White painted²

MB Black baffle²

WB White baffle²



(blank) Semi-specular

LD Matte-diffuse LS Specular Options/accessories
Seepages 266-271.

Color

Example: CWU7A AC DWHG

DWHG Matte white (standard)

DDB Dark bronze

DBL Black

DNA Natural aluminum

DWH Gloss white

DTG Tennis green

DGC Charcoal grey

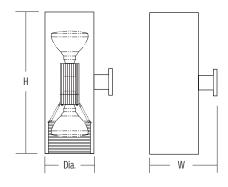
DSS Sandstone

Catalog No. Diameter Diameter Height (H) Wall mount width (W) CWU7A 6-5/8 (16.8) 22-1/8 (56.2) 9-7/8 (25.1) CWU8A 8-3/8 (21.3) 22-5/8 (65.1) 11-5/8 (29.5)

NOTES:

- 1 Matte white finish (DWHG) standard.
- 2 Not available with finishes.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches}$ (centimeters) unless otherwise noted.



www.gothamlighting.com, keyword: CWU





Low Voltage Lamps

Ordering Information Example: MR16 50 40DBS GE

Wattage Lamp type¹ MR11 20 MR16 35 ALR12 50 ALR18 65 AR70 71 AR111 75 PAR36 100 PAR56 120 240

Distribution				
DBS	Degree beam spread (specify) ²			

Manufacturer

GE General Electric

SY Osram Sylvania

PH Philips

NOTES:

- 1 See chart below for availability.
- 2 Add degree beam spread. See chart below
- 3 Centerbeam candlepower.
- 4 Contact Philips Lighting.

		Wattage	Distribution (degree beam spread)	CBCP ³	Manufacturer
		20	10	5500	SY
MR11	Ξ		35	700	SY
1	Ž	35	10	8300	SY
		33	35	1500	SY

		7	7400	GE
		10	3400	PH
		10	5000	SY
	20	15	3750	GE
		36	550	PH
		40	525	GE
		40	700	SY
		10	8300	SY
		20	3900	GE
	35	25	3100	SY
		40	1000	GE
		40	1250	SY
9		10	8800	PH
MR16		10	11500	SY
2	50	15	9100	GE
		24	2500	PH
		25	3200	GE
		25	3200	SY
		36	1600	PH
		40	1700	GE
		40	2000	SY
		10	14000	SY
	65	25	4000	SY
		40	2100	SY
		15	11500	GE
	71	25	5500	GE
		40	2200	GE

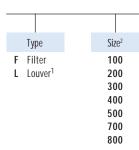
	Wattage	Distribution (degree beam spread)	CBCP ³	Manufacturer
2		6	7000	PH
ALR12	20	18	1500	PH
₹		32	750	PH
	•			
ALR18	50	10	13000	PH
ALF	30	25	2500	PH
		8	7700	SY
20	20	25	900	SY
AR70	50	8	12500	SY
] 30	25	2600	SY
	•			
	FO	8	20000	SY
	50	25	4000	SY

	50	0	20000	31
	30	25	4000	SY
		8	30000	SY
11	75	25	5300	SY
AR11		45	2000	SY
,	100	8	48000	SY
		25	8500	SY
		45	2800	SY
	25	8	20000	GE

	35	8	20000	GE
	30	30	900	GE
		5	17000	SY
9	36	13	3500	SY
PAR36		32	1000	SY
9		6	25000	SY
	Ε0	8	30000	GE
	50	8	X ⁴	PH
		30	1300	GE

		VNSP	60000	GE
	120	MFL	19000	GE
PAR56		WFL	5625	GE
Z ≥		VNSP	140000	GE
	240	MFL	46000	GE
		WFL	13000	GE

Ordering Information Example: F200 RR



Lens
Order separately from fixture as new catalog item.
<u>Lens colors</u>
Dichroic borosilicate lenses (safety glass)
RED Red
O

GAMB Golden amber
YEL Yellow
GRN Green
CBLUE Cool blue
MBLUE Medium blue
CPCH Cool peach
MGN Magenta
CYAN Cyan
CL Clear lens

UV +99% UV blocking below 400 nm

Soda lime lenses³

RR Ruby redMB Medium blueMA Medium amberDB Dark blueMP Medium pink

Beam-shaping lenses

Borosilicate lenses (safety glass)
PMF Perimeter frost lens

LTF Light frost lens
SFG Softening lens

Soda lime lenses³

SL Spread lens

EG Elongating lens

Louvers³

L Matte black4

			LEN	IS/LOUVER	SIZE		
LAMP TYPE	100	200	300	400	500	700	800
ALR12							
ALR18							
AR111							
AR70							
MR11							
MR16							
PAR16							
PAR20							
PAR30							
PAR36							
PAR38							
PAR46							
PAR56							

 $Size \, dependant \, upon \, fixture \, type \, and \, retaining \, method. \, See \, specification \, sheets.$

NOTES:

- 1 Not available with lens.
- 2 See chart for lamp compatibility.
- 3 Safety glass required in combination when used with MR11, MR16 or AR111 lamp types.
- $4 \quad \text{Not recommended for use with a luminized reflector MR16 lamps}.$

Options

Ballast/Transformer

- EMB Electromagnetic fluorescent ballast. Requires two-pin lamp.
- **GEB10** Electronic fluorescent ballast. Requires four-pin lamp. THD < 10%, PF > 0.98
- SCWA Pulse start metal halide super constant wattage autotransformer ballast. Consult specification sheet for wattage and voltage availability.
 - **HEB** Electronic HID ballast. 120 \dot{V} or 277V, 50 or 60 HZ. THD < 15%, PF > 0.90
 - AD Advance electromagnetic ballast. Fluorescent requires two-pin lamp.
- ADALI Advance ROVR™ electronic controllable ballast utilizing digital addressable lighting interface (DALI) protocol. Requires four-pin lamp (120V or 277V only).
- ADCF Advance electronic fluorescent ballast. Requires four-pin lamp (120V or 277V only).
- ADEZ Advance Mark 10™ electronic line voltage control dimming ballast. (120V or 277V; 18DTT, 26DTT, 18TRT, 26TRT, 32TRT, 42TRT or 57TRT only). Requires four-pin lamp. Minimum dimming level 5%.
- ADZT Advance Mark 7™ electronic 0-10 VDC dimming ballast. (120V or 277V). Requires four-pin lamp. Minimum dimming level 5%
- DMHL Lutron Compact SE™ electronic 3-wire line voltage control dimming ballast. (120V or 277V; 18DTT, 26TRT, 32TRT or 42TRT only.) Requires four-pin lamp. Minimum dimming level 5%.
- DMHL3 Lutron Hi-Lume® electronic 3-wire line voltage control dimming ballast (120V or 277V; 26TRT or 32TRT only). Requires four-pin lamp. Minimum dimming level 1%.
- 2W5 Lutron Tu-Wire® electronic line voltage control dimming ballast. (120V or 277V; 18DTT, 26DTT, 18TRT, 26TRT, 32TRT or 42TRT only.)
 - Requires four-pin lamp. Minimum dimming level 5%.
- **MOTCF** Osram Sylvania electronic fluorescent ballast. Requires four-pin lamp.
 - UN Universal Lighting Technologies electromagnetic ballast. Fluorescent requires two-pin lamp.
- TUBCF Universal Lighting Technologies electronic ballast. Requires four-pin lamp.
- TUBDD Universal Lighting Technologies electronic AddressPRO® digital dimming ballast (120V or 277V; 13DTT, 18DTT, 26DTT, 18TRT, 26TRT, 32TRT or 42TRT only). Requires four-pin lamp. Minimum dimming level 3%.
- SDT Stepdown transformer (277V to 120V; 300W max.).
- SDT347 Stepdown transformer (347V to 120V; 75W max.)
 - QDS Quick disconnect system for easy fluorescent ballast replacement.
 - DS Dual switching.

Emergency

- EL Emergency battery pack with integral test switch. Operates one lamp in emergency mode with battery back-up in case of power disruption
- ELR Emergency battery pack with remote test switch. Operates one lamp in emergency mode with battery back-up in case of power disruption.
- EL2LP Emergency battery pack with integral test switch. Operates two lamps in emergency mode with battery back-up in case of power disruption.
- ELR2LP Emergency battery pack with remote test switch. Operates two lamps in emergency mode with battery back-up in case of power disruption.
 - ELSD Emergency battery pack with integral test switch and self-diagnostics module. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Self-diagnostic module evaluates AC to DC transfer, charging and battery condition for five minutes every 30 days and 30 minutes every six months.
- ELRSD Emergency battery pack with remote test switch and self-diagnostics module. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Self-diagnostic module evaluates AC to DC transfer, charging and battery condition for five minutes every 30 days and 30 minutes every six months.
- ELRB94 Bodine B94 emergency battery pack with remote test switch. Operates one lamp in emergency mode with battery back-up in case of power disruption.
- BGTD Bodine GTD™ generator transfer device. Factory installed on fixture, senses loss of normal power and switches to auxiliary generator to power fixture for egress lighting.
- ORS Quartz restrike system. Automatically energizes 120V double-contact, bayonet-base lamp (by others) during a momentary power interruption significant enough to cause HID lamp to drop out. Lamp stays on until HID lamp restrikes.
- QRSTD Quartz restrike system with time delay. Operates like QRS, except auxilliary lamp remains on for two minutes after HID lamp restrikes.
 - EC Emergency circuit. Factory-installed double-contact, bayonet-base socket with leads. For use with separate, external emergency power system.

Fusing

- GMF Single, slow-blow fuse. (120V, 277V or 347V only.)
- GLR Single, fast-blow fuse. (120V, 277V or 347V only.)
- **SF** Single fuse (120V, 277V or 347V only).
- DF Double fuse (208V or 240V only).

Trim

- TRW White painted flange. (Standard with MB, WB, WC, or WR trim colors.)
- TRBL Black painted flange.
- TRDA Tamper-resistant door assembly. Includes two tamper-resistant screws. For added protection, use in combination with PCL lens option.
- **GSKT** Foam gasketing. Aids in reduction of light leaks and insect penetration, shipped uninstalled.
- CWW Corner wallwash
- **DWW** Double wallwash.

Lamp

- WLP Lamp (shipped separately).
- LPSP Spot lamp (shipped separately)
- LPFL Flood lamp (shipped separately).
- LPWFL Wide flood lamp (shipped separately).

Mounting

- PM Pendant mount, order stem separately.
- WM Wall mount
- CYS 3/8" stem and canopy with 5" "hang straight" swivel. Consult factory for exterior applications. Length of stem must be specified (from 6" to 48" in 6" increments).
- CRS 3/8" stem and canopy with 45° swivel. Consult factory for exterior applications. Length of stem must be specified (from 6" to 48" in 6" increments).

Miscellaneous

- LRC Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required.
- RIF Radio inference filter. Inductive capacitor circuit designed to minimize interference from feedback into line. 120V through 347V, 50 or 60 HZ.
- CP Chicago plenum.



Options

■ Option available, see specification sheet for details.

	FLUORESCENT														HID						IN	ICAND	ESCEN	NT			V	LOW OLTAG	SE SE				
		PDXF/PDTF	PDGF	AF/AFW	AFZ/AFZW	AFV/AFVW	DLWF	LGF	LGFV	LAF	CF	CFZ	CFV	CFL	CFVL	AH/AHW/AHZ	APRH		DLWH	TCH/TCHZ	LAH	CC/CEC	A/AW/AZ/AZW	APR	GQ/GQT		DLW	Tez	LA	CA/CAL/CWU/CC			DLV 6 & 8
	EMB		<u>а</u>	▼	▼	<u>▼</u>		_	_	_	<u>S</u>	<u>S</u>	<u>S</u>	<u></u>	0	⋖	⋖			_	_	<u> </u>	₹.	⋖	9			_	_	ပ	•		
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	MOTCF														-																		\dashv
	TUBCF																					-											\dashv
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	GMF											_					_	_			_												
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Misc.	СР																																
NOTES:																																	_

NOTES: 1 Available with 4-pin lamp only.

Accessories

SCA Sloped ceiling adapter, aluminum with matte white finish for use in sloped ceiling application. Must specify prod-

uct aperture and degree of slope. Example: SCA6 10D.

CTA Ceiling thickness adapter, galvanized steel for use in ceilings up to 2" thick.

BH24 Bar hangers, 24" galvanized steel bar hangers for T-bar mounting (set of two).

LSMC T-Bar mounting clips designed to lock bar hangers to T-bar (set of four). Not for use with BH24.

 $\label{lem:LFH} \textbf{Locking filter holder accommodates up to two lenses/louvers}.$

LTWFH Filter holder accommodates up to two lenses/louvers.

GFC Filter clips accommodates up to two lenses/louvers.

 $\blacksquare = Option \, available; see \, specification \, sheet \, for \, details.$

	FLUORESCENT								HID						INCA	NDES	CENT)W TAGE
	PDXF/PDTF	PDGF	AF/AFW	AFZ/AFZW	AFV/AFVW	LGF	LGFV	LAF	AH/AHW/AHZ	APRH	ВН	ZH91/H91	LAH	A/AW/AZ/AZW	APR	DP	Z91/91	LA	APRLV	DLV 6 & 8
SCA4																				
SCA5																				
SCA6																				
SCA8																				
SCA10																				
SCA12																				
CTA6																				
CTA860																				
CTA10																				
CTA12																				
BH24																				
LSMC																				
LFH300																				
LFH501																				
LFH502																				
LFH503																				
LFH701																				
LFH702																				
LFH703																				
LTWFH400																				
LTWFH500																				
LTWFH700																				
GFC700																				
GFC800																				

Provides an effective and attractive interface between sloped ceilings and Gotham® recessed luminaires.

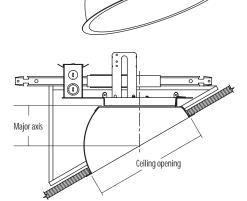
SCA

Sloped Ceiling Adapter

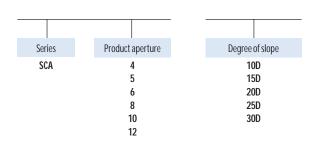
Features

Each adapter is scaled specifically to the aperture diameter of the luminaire. The adapter may be specified for 10-30 degree slopes, in 5 degree increments. The self-flanged, heavy gauge aluminum adapter is coated with a white, textured polyester powder finish for durability.

Mechanical design provides simplified installation with integral tabs. Integral tabs support the adapter to the recessed downlight housing prior to installation of the trim.



Ordering Information Example: SCA6 15D



	Sloped Ceiling Adapter Ordering Information and Dimensional Data												
		gree of slope (pitch)											
Sloped		Ceiling	10° (2/12)	15° (3/12)	20° (4&5/12)	25° (6/12)	30° (7/12)						
ceiling		opening											
adapter	Fixture series	(Dia.)		Maj	jor axis/height ac	lder							
SCA4	AFV4, AH4, APRH4, A4, APR4	11 (27.9)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)						
SCA5	AFV5	11 (27.9)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)						
	AF6, AFV6, AH6, AHZ6, APRH6,												
SCA6	APR6, A6, AZ6, APRLV6, LGF6,	11 (27.9)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)	3-7/8 (9.8)						
	LGFV6, LGH6, LGHZ6, LG6, LGZ6												
	AF8, AFV8, AFZ8, AH8,												
SCA8	AHZ8, APRH8, A8, AZ8,	12-5/8 (32.1)	4-1/4 (10.8)	4-1/4 (10.8)	4-1/4 (10.8)	4-1/4 (10.8)	4-1/4 (10.8)						
	LGF8, LGFV8, LGH8, LGHZ8, LG8, LGZ8												
SCA10	AF10, AH10, LGF10, LGFV10,	17-3/4 (45.1)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)						
	LGH10, LGHZ10, LG10, LGZ10	17-3/4 (43.1)	J-3/4 (14.0)	3-3/4 (14.0)	3-3/4 (14.0)	3-3/4 (14.0)	3-3/4 (14.0)						
SCA12	A12, AH12	17-3/4 (45.1)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)	5-3/4 (14.6)						

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \\ Dimensions are shown in {\it inches} ({\it centimeters}) unless otherwise noted.$



LITHONIA LIGHTING®



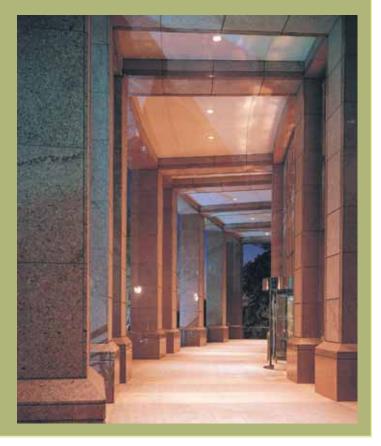
Lithonia Downlighting

The Lithonia Downlighting family of products offers a wide selection of compact fluorescent, HID, incandescent and low voltage fixtures for a variety of applications.

With aperture sizes ranging from three to eight inches, our frame-ins meet industry requirements for rugged construction and easy installation. Our reflectors are designed to deliver solid photometric performance at competitive prices.

With a comprehensive selection of frame-ins and reflectors in stock, Lithonia Downlighting is the ideal choice for your next lighting project.





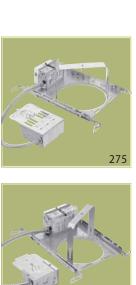
www.lithonia.com

LITHONIA DOWNLIGHTING

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HID Downlights







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8" Aperture	
6" Aperture	

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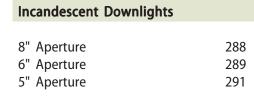


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LF8

1-Lamp, Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with adjustable integral yoke to retain optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2'

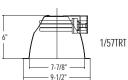


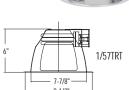


Wallwash with integral kicker F8W4 White

Other finishes: A/AZ/G/GZ/PR/WTZ







Glass lens with specular upper reflector F8LS Tempered prismatic Clear F8LS Trim types: Trim types: 1/57TRT 1/57TRT

Ordering Information

Series Wattage/Lamp LF8 1/26-42TRT 1/26TRT 1/32TRT 1/42TRT 1/57TRT

F801 White F801A Clear diffuse open F801AZ Clear specular open F801G Gold diffuse open F801GZ Gold specular open F801PR Pewter diffuse open F801WT7 Wheat specular open White wallwash F8W4 Clear diffuse wallwash F8W4A

Reflector F8W4AZ Clear specular wallwash Gold diffuse wallwash F8W4G F8W4GZ Gold specular wallwash F8W4PR Pewter diffuse wallwash F8W4WTZ Wheat specular wallwash White splay, flat clear le F8LS4 F8I \$73 White splay, tempered prismatic lens3

STANDARDPACKAGING

Example: LF8 1/26-42TRT F801A MVOLT

	Voltage
	MVOLT ⁴
	120
	277
h	347
sh	
ens³	

Options Generic electronic ballast, THD (total harmonic GEB10 distortion) < 10%. Advance Mark 10[™] electronic dimming ballast, 120V or 277V. Minimum dimming level 5%. DMHL Lutron Compact SE™ electronic dimming ballast,

120V or 277V. Minimum dimming level 5%. Emergency battery pack with integral test switch.5 FI Emergency battery pack with remote test switch.5 ELR Single slow-blow fuse. GMF 35K lamp (shipped separately).

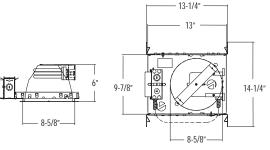
TRW White flange.

- Not available with DMHL or WLP.
- 2 Not available with 347 or DMHL

NOTES:

- $Lens \, removal \, required \, before \, EL \, testing. \, Lens \, door \, pulls \, down \, for \, EL \, testing.$
- MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V. 50 or 60Hz
- Not available with 57TRT.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Fixtures ship as multiple components using optimized packaging. Example above ships as: (Qty 13) LF8 1/26-42TRT MVOLT (13 cartons of 1 housing) (Qty13) F801A (13 cartons of 1 reflector)

To order, use single master catalog number

Example: (13) LF8 1/26-42TRTF8 01AMVOLT

INTHONIA LIGHTING

www.lithonia.com, keyword: LF8 1 TRT

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2"

Baffle with specular upper reflector

Open reflector F803 White Other finishes: A/AZ/G/GZ/PR/WTZ



- 7-7/8"

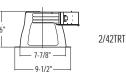
2/42TRT



Wallwash with integral kicker

F8W3 White Other finishes: A/AZ/G/GZ/PR/WTZ





Glass lens with specular upper reflector F8LT Clear F8LT Fresnel F8LT Tempered prismatic 1/B1 4/B4 73/B73 Trim types: Trim types: Trim types: 2/42TRT 2/42TRT 2/42TRT 7-7/8 9-1/2

2-Lamp, Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with adjustable integral yoke to retain optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Series Reflector Voltage Wattage/lamp LF8 White open MVOLT3 2/26-42TRT1 F803 F8W3GZ Gold specular wallwash 2/26TRT Pewter diffuse wallwash F803A Clear diffuse open F8W3PR 120 2/32TRT Wheat specular wallwash 277 F803AZ Clear specular open F8W3WTZ 2/42TRT F803G Gold diffuse open F8LT1 White splay, clear lens2 F803GZ Gold specular open F8LTB1 Black baffle, clear lens² F803PR Pewter diffuse open F8LT4 White splay, fresnel lens2 F803WT7 Wheat specular open **F8I TB4** Black baffle, fresnel lens2 F8B4 Black baffle F8LT73 White splay, tempered F8B4W White baffle prismatic lens2 F8W3 White wallwash F8LTB73 Black baffle, tempered prismatic lens² F8W3A Clear diffuse wallwash F8W3AZ Clear specular wallwash F8W3G Gold diffuse wallwash

Example: LF8 2/26-42TRT F803A MVOLT

	Options
GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%.
ADEZ	Advance Mark 10™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
DMHL	Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
EL	Emergency battery pack with integral test switch.
ELR	Emergency battery pack with remote test switch.
GMF	Single slow-blow fuse.
WLP	35K Lamp (shipped separately).
TRW	White flange.

NOTES:

- 1 Not available with DMHL or WLP.
- 2 Lens removal required before EL testing.
- 3 MVOLT Electronic multi-volt ballast capable of operating any line voltage

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

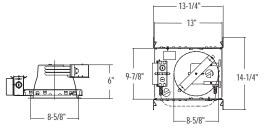
STANDARD PACKAGING

To order, use single master catalog number. Example: (13) **LF8 2/26-42TRT F803A MVOLT**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) LF826-42TRT MVOLT (13 cartons of 1 housing) (Qty13) F803A (13 cartons of 1 reflector)

www.lithonia.com, keyword: LF8 2 TRT





LF8

2-Lamp, Double Twin-Tube (DTT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with adjustable integral yoke to retain optical system. Gal-vanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".

Open reflector

F802 White Other finishes: A/AZ/G/GZ/PR/WTZ



Baffle with specular upper reflector

F8B3 Black baffle Other finishes: W



Wallwash with integral kicker

F8W1 White Other finishes: A/AZ/G/GZ/PR/WTZ





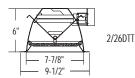
2/26DTT

Glass lens with specular upper reflector

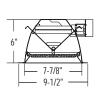
F8LF Clear 1/B1 Trim types:

F8L Fresnel 4/B4 Trim types:

F8LF Tempered prismatic Trim types: 73/B73



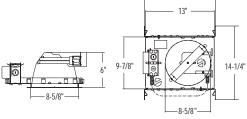
2/26DTT 7-7/8 9-1/2"



2/26DTT

Ordering Information

Series Wattage/lamp Voltage Reflector 2/18DTT F8W1AZ Clear specular wallwash MVOLT2 IF8 F802 White open 2/26DTT F802A Clear diffuse open Gold diffuse wallwash F8W1G 120 F8W1GZ Gold specular wallwash F802AZ Clear specular open 277 F802G Gold diffuse open F8W1PR Pewter diffuse wallwash F8W1WTZ F802GZ Gold specular open Wheat specular wallwash F802PR Pewter diffuse open F8LF1 White splay, clear lens1 F802WTZ Wheat specular open **F8I FB1** Black baffle, clear lens1 F8B3 Black baffle F8L4 White splay, fresnel lens¹ F8B3W White baffle F8LB4 Black baffle, fresnel lens1 F8W1 White wallwash F8LF73 White splay, tempered prismatic lens1 Clear diffuse wallwash F8W1A F8LFB73 Black baffle, tempered prismatic lens1 -13-1/4 STANDARDPACKAGING **To order**, use single master catalog number. Example: (13) LF8 2/26DTTF802 MVOLT



Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) LF82/26DTT MVOLT (13 cartons of 1 housing) (Qty 13) F802 (13 cartons of 1 reflector)

www.lithonia.com, keyword: LF8 2 DTT

Example: LF8 2/26DTT F802 MVOLT

	Options
GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%.
ADEZ	Advance Mark 10 [™] electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
DMHL	Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
LRC	Provides compatibility with Lithonia Reloc System.
EL	Emergency battery pack with integral test switch. ³
ELR	Emergency battery pack with remote test switch.3
GMF	Single slow-blow fuse.
WLP	35K Lamp (shipped separately).
TRW	White flange.

- Lens removal required before EL testing. Lens door pulls down for EL testing.
- $MVOLT-Electronic multi-volt \, ballast \, capable \, of \, operating \, any \, line \, voltage \,$ from 120-277V. 50 or 60Hz
- 3 Not available with a magnetic ballast.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".

Open reflector 802 White

Other finishes: A/AZ/G/GZ/PR/WTZ

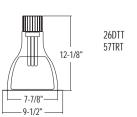


Baffle with specular upper reflector 8B3 Black baffle Other finishes: W



Wallwash with integral kicker

8W1 White Other finishes: A/AZ/G/GZ/PR/WTZ



7-7/8

9-1/2"

1-Lamp, Double Twin-Tube (DTT) or Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Fresnel 8LF Tempered prismatic 81 F Clear 8L 1/B1 4/B4 Trim types: 73/B73 Trim types: Trim types: 26DTT 26DTT 26DTT 57TRT 57TRT 57TRT 12-1/8 12-1/8" 12-1/8"

7-7/8

9-1/2"

Glass lens

Ordering Information

9-1/2

Series	Wattage/lamp	Reflector			Wattage	
LP8F	18DTT 26DTT 18TRT' 26-42TRT' ² 26-42TRT' 32TRT' 42TRT' 57TRT' ³	802 802A 802AZ 802G 802GZ 802PR 802WTZ 8B3 8B3W 8W1 8W1A	White open Clear diffuse open Clear specular open Gold diffuse open Gold specular open Pewter diffuse open Wheat specular open Black baffle White baffle White wallwash Clear diffuse wallwash Clear specular wallwash	8W1G 8W1GZ 8W1PR 8W1WTZ 8LF1 8LFB1 8L4 8LB4 8LF73	Gold diffuse wallwash Gold specular wallwash Pewter diffuse wallwash Wheat specular wallwash White splay, clear lens ⁴ Black baffle, clear lens ⁴ White splay, fresnel lens ⁴ White splay, tempered prismatic lens ⁴ Black baffle, tempered prismatic lens ⁴	MVOLT ⁵ 120 277 347

- 1 Not available with a magnetic ballast.
- 2 Not available with DMHL or WLP.
- 3 Not available with 347 or DMHL.
- Lens removal required before EL testing. Lens door pulls down for EL testing.
- MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V.50 or 60Hz.
- 6 Not available with 57TRT.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

STANDARD PACKAGING

To order, use single master catalog number. Example: (13) LP8F 26-42TRT 802 MVOLT

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty13) LP8F 26-42TRT MVOLT (13 cartons of 1 housing) (Oty13) 802 (13 cartons of 1 reflector)

www.lithonia.com, keyword: LP8F

Example: LP8F 26-42TRT 8O2 MVOLT

Options GEB10 Generic electronic ballast, THD (total harmonic distortion) <10%. ADEZ Advance Mark 10[™] electronic dimming ballast, 120V or 277V. Minimum dimming level 5%. DMHL Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%. Emergency battery pack with integral test switch.^{1,6} FI Emergency battery pack with remote test switch.^{1,6} Single slow-blow fuse. **GMF** Provides compatibility with Lithonia Reloc System (standard with electronic ballast). WLP 35K Lamp (shipped separately). TRW White flange. .13-1/4" 13-1/8 See trim 9-7/8"



8-5/8'

14-1/4

ő

CCR82

1-Lamp, Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Electronic multi-volt ballast (120V through 277V), multi-wattage (26-42TRT) with end of life protection provided on master fixture. 11-foot inter-connecting cable provided on remote fixture to reduce installation time. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2".



- 7-7/8"

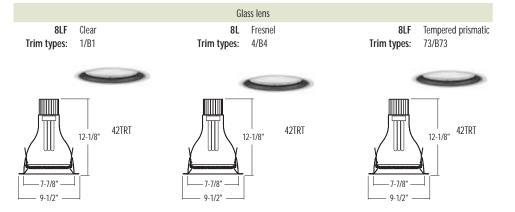




Wallwash with integral kicker

8W1 White Other finishes: A/AZ/G/GZ/PR/WTZ





Ordering Information

Series Wattage/lamp Reflector CCR82 26-42TRT Gold diffuse wallwash 802 White open 8W1G 26TRT Clear diffuse open Gold specular wallwash 802A 8W1GZ 32TRT 8W1PR Pewter diffuse wallwash 802AZ Clear specular open 42TRT 802G Gold diffuse open 8W1WTZ Wheat specular wallwash 802GZ Gold specular open White splay, clear lens2 8LF1 802PR Pewter diffuse open Black baffle, clear lens² 8LFB1 802WTZ Wheat specular open White splay, fresnel lens2 8I 4 Black baffle, fresnel lens² 8B3 Black baffle 8LB4 8**R**3W White baffle 8LF73 White splay, tempered 8W1 White wallwash prismatic lens2 Black baffle, tempered **8LFB73** Clear diffuse wallwash 8W1A prismatic lens2 8W1AZ Clear specular wallwash 13-1/4 13-1/8" STANDARDPACKAGING To order, use single master catalog number. Example: (12) CCR82 26-42TRT 802 MVOLT See trim

9-7/8"

-8-5/8

13-1/2"

Example: CCR82 26-42TRT 802 MVOLT

Wattage MVOLT³

Options

EL Emergency battery pack with integral test switch.⁴

ELR Emergency battery pack with remote test switch.⁴

Single slaw-blow fixes

GMF Single slow-blow fuse.
WLP 35K Lamp (shipped separately).

TRW White flange.

NOTES

- 1 Not available with WLP.
- 2 Lens removal required before EL testing. Lens door pulls down for EL testing.
- 3 MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V.50or 60Hz.
- 4 Emergency lamp on master unit only.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches .



www.lithonia.com, keyword: CCR82

Fixtures ship as multiple components using

optimized packaging. Example above ships as:

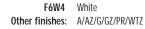
(Oty 12) CCR82* (6 cartons of 2 housings) (Oty 24) 802 (12 cartons of 1 reflector) *Standard 26-42 TRT MVOLT

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2". Consult factory for thicker ceiling applications.

Open reflector Wallwash with integral kicker

F601 White Other finishes: A/AZ/G/GZ/PR/WTZ







Glass lens

F6LS White Trim types:

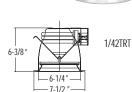
F6LS Tempered prismatic 73 Trim types:











1- Lamp, Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with adjustable integral yoke to retain optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 8 (4 in, 4 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Series Wattage/lamp Reflector Voltage LF6 Gold diffuse wallwash MVOLT3 1/26-42TRT1 F601 White F6W4G 1/26TRT F6W4GZ Gold specular wallwash F601A Clear diffuse open 120 1/32TRT F601AZ Pewter diffuse wallwash 277 Clear specular open F6W4PR 1/42TRT F601G Gold diffuse open F6W4WTZ Wheat specular wallwash F601GZ White splay, white lens2 Gold specular open F6LS4 F601PR Pewter diffuse open White splay, tempered F6LS73 F601WTZ prismatic lens² Wheat specular open F6W4 White wallwash F6W4A Clear diffuse wallwash

Clear specular wallwash

Example: LF6 1/26-42TRT F6O1A MVOLT

	Options
GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%.
ADEZ	Advance Mark 10™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
DMHL	Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.
EL	Emergency battery pack with integral test switch.
ELR	Emergency battery pack with remote test switch.
GMF	Single slow-blow fuse.
WLP	35K Lamp (shipped separately).
TRW	White flange.

- 1 Not available with DMHL or WLP.
- $2\quad Lens \, removal \, required \, before \, EL \, testing. \, Lens \, door \, pulls \, down \, for \, EL \, testing.$

F6W4AZ

3 MVOLT - Electronic multi-volt ballast capable of operating any line voltage

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches

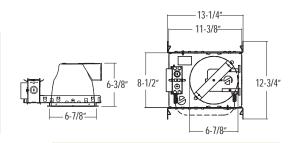
STANDARDPACKAGING

To order, use single master catalog number. Example: (13) LF61/26-42TRTF601AMVOLT

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 13) LF6 1/26-42TRT MVOLT (13 cartons of 1 housing) (Qty13)F601A(13 cartons of 1 reflector)

www.lithonia.com, keyword: LF6 1 TRT





LF₆

2-Lamp, Double Twin-Tube (DTT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with adjustable integral yoke to retain optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 8 (4 in, 4 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

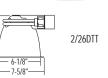
 $\ensuremath{\mathsf{UL}}$ Listed to U.S. and Canadian safety standards.

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2". Consult factory for thicker ceiling applications.

Open reflector

F602 White
Other finishes: A/AZ/G/GZ/PR/WTZ





Wallwash with integral kicker

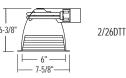
Other finishes: A/AZ/G/GZ/PR/WTZ



Baffle with specular upper reflector

 $\begin{array}{cc} \textbf{F6B3} & \textbf{Black baffle} \\ \textbf{Other finishes:} & \textbf{W} \end{array}$

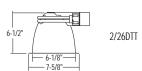




Open cone

F6C3 Other finishes: BLZ





Glass lens

F6LD Drop opal F6LF White Trim types: 3/B3 Trim types: 3/B3

F6L Fresnel Trim types: 4/B4 F6LF Tempered prismatic
Trim types: 73/B73













5-1/2"

2/26DTT 5-1/2" 5-5-7

5-2/26DTT -

Voltage

MVOLT2

120

277

347

2/26DTT

2/26DTT

Ordering Information

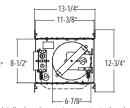
Series Wattage/lamp LF6 2/18DTT

2/26DTT

NOTES:

- 1 Lensremoval required before EL testing. Lens door pulls down for EL testing.
- 2 MVOLT Electronic multi-volt ballast capable of operating any line voltagefrom 120-277V, 50or 60Hz.
- 3 Not available with a magnetic ballast.

F602 White open F602A Clear diffuse open F602AZ Clear specular open Gold diffuse open F602G F602GZ Gold specular open F602PR Pewter diffuse open F602WTZ Wheat specular open F6B3 Black baffle White baffle F6B3W White wallwash F6W1 F6W1A Clear diffuse wallwash F6W1AZ Clear specular wallwash F6W1G Gold diffuse wallwash



Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.

Reflector

F6W1GZ Gold specular wallwash Pewter diffuse wallwash F6W1PR F6W1WTZ Wheat specular wallwash Black specular open cone F6C3BLZ F6LD3 White splay, drop opal lens1 F6I DR3 Black baffle, drop opal lens¹ F6LF3 White splay, white lens1 F6LFB3 Black baffle, white lens1 F6L4 White splay, fresnel lens1 F6LB4 Black baffle, fresnel lens White splay, tempered prismatic lens1 F61 F73 F6LFB73 Black baffle, tempered prismatic lens1

STANDARD PACKAGING
To order, use single master catalog number.
Example: (13) LF62/26DTTF602 MVOLT

Fixtures ship as multiple componentss using optimized packaging. Example above ships as:

(Qty13) LF62/26DTT MVOLT (13 cartons of 1 housing) (Qty13) F602 (13 cartons of 1 reflector)

www.lithonia.com, keyword: LF6 2 DTT

Example: LF6 2/26DTT F6O2 MVOLT

Options

GEB10 Generic electronic ballast, THD (total harmonic distortion) < 10%.

ADEZ Advance Mark 10™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.

DMHL Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.

LRC Provides compatibility with Lithonia Reloc System.

EL Emergency battery pack with integral test switch.3

ELR Emergency battery pack with remote test switch.³

GMF Single slow-blow fuse.

WLP 35K lamp (shipped separately).
TRW White flange.

.....**J**.

light**quick**°XD

Express delivery products.

See page11 for details about LightQuick XD.

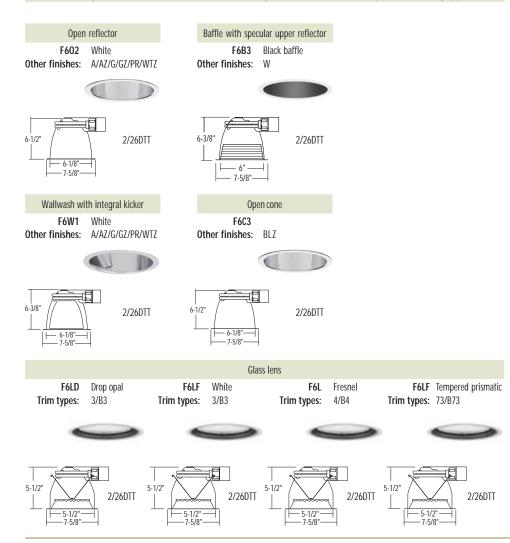
Description

LF6 2/26DTT MVOLT

F602AZ

IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

LIF6



2-Lamp, Double Twin-Tube (DTT)



Intended Use

New construction applications requiring high performance horizontal reflectors using compact fluorescent lamps.

Features

Mechanical – Pre-painted, rugged steel frame-in with adjustable integral yoke to retain optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Encased and potted, normal power factor (NPF) electromagnetic ballast only. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Series Wattage/lamp LIF6 2/13DTT

White open F602 F602A Clear diffuse open F602AZ Clear specular open F602G Gold diffuse open F602GZ Gold specular open F602PR Pewter diffuse open F602WTZ Wheat specular open F6B3 Black baffle F6B3W White baffle F6W1 White wallwash F6W1A Clear diffuse wallwash Clear specular wallwash F6W1A7 F6W1G Gold diffuse wallwash Gold specular wallwash F6W1GZ

Reflector Pewter diffuse wallwash F6W1PR F6W1WTZ Wheat specular wallwash F6C3BLZ Black specular open cone White splay, drop opal lens F6LD3 F6LDB3 Black baffle, drop opal lens F6LF3 White splay, white lens F6LFB3 Black baffle, white lens White splay, fresnel len F6I 4 F6LB4 Black baffle, fresnel lens White splay, tempered prismatic lens F6LFB73 Black baffle, tempered prismatic lens

STANDARDPACKAGING **To order**, use single master catalog number.

Example: (13) **LIF6 2/13DTT F602 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(0ty13) LIF6 2/13DTT 120 (13 cartons of 1 housing) (0ty13) F602 (13 cartons of 1 reflector)

Example: LIF6 2/13DTT F602 120

Options

LRC Provides compatibility with Lithonia Reloc System.

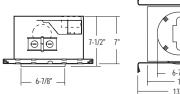
MF Single slow-blow fuse.

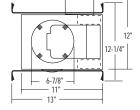
WLP 35K lamp (shipped separately).

TRW White flange.

Voltage

120



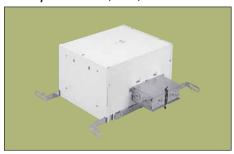


Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.

LITHONIA LIGHTING

LI6F

1-Lamp, Double Twin-Tube (DTT) or Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluores-

Features

Mechanical - Pre-painted, rugged steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 6 (3 in, 3 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring. Poke-home connector standard.

Listings

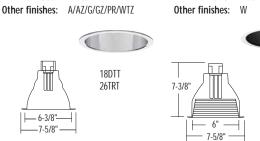
UL Listed to U.S. and Canadian safety standards.

Ordering Information

IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.



608 White



Baffle with diffuse upper reflector

6B3 Black baffle



18DTT 26TRT



Other finishes: W

Sloped baffle (narrow flange)

6SB1 Black

18DTT 26TRT

Glass lens

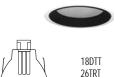
6LD Drop opal Trim types: 3/B3



- 6"

7-5/8

6LF White 3/B3 Trim types:



6L Fresnel Trim types: 4/B4

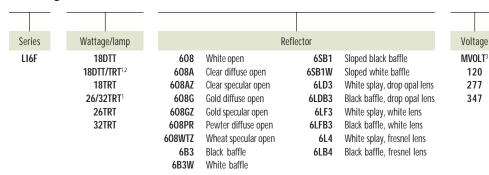


7-5/8

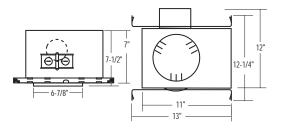
18DTT 26TRT

6" 7-5/8

Example: LI6F 26/32TRT 608A MVOLT



Options Advance Mark 10™ electronic dimming ballast, ADEZ 120V or 277V. Minimum dimming level 5%. Single slow-blow fuse. Sealed airtight housing to minimize air flow through rough-in. Complies with WSEC and certified per ASTM E283. WIP 35K lamp (shipped separately). White flange.



STANDARD PACKAGING

To order, use single master catalog number. Example: (13) **LI6F 26/32TRT 608A MVOLT**

Fixtures ship as multiple components using optimized packaging. Example above ships as

(Qty 13) L16F 26/32TRT MVOLT (13 cartons of 1 housing) (Qty13) 608A (13 cartons of 1 reflector)

www.lithonia.com, keyword: LI6F

NOTES:

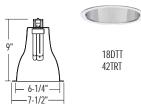
- Not available with WLP
- 2 Not available with ADEZ
- 3 MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60Hz.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2". Consult factory for thicker ceiling applications.

Open reflector 607 White Other finishes: A/AZ/G/GZ/PR/WTZ

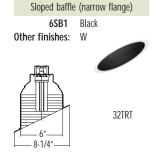




- 6-1/4" ·

Open reflector multiplier 6M1 Other finishes: AZ/GZ/BLZ

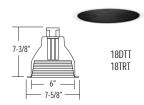




Baffle with diffuse upper reflector

6B3 Black Other finishes: W

7-1/2"



LP6F

1-Lamp, Double Twin-Tube (DTT) or Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Socket attaches to to reflector to ensure proper and consistent lamp position. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Electronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

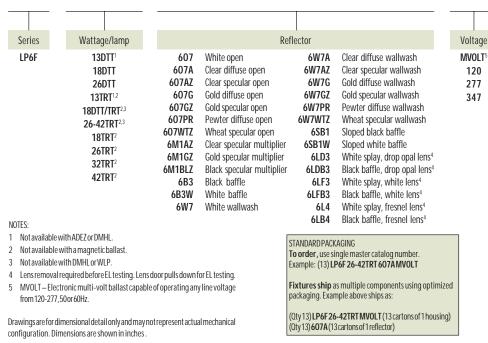
UL Listed to U.S. and Canadian safety standards.

Glass lens 6LF White 6LF White **6L** Fresnel Trim types: 3/B3 Trim types: 3/B3 Trim types: 4/B4 7-3/8 7-3/8 7-3/8 13DTT 13DTT 13DTT 18TRT 18TRT 18TRT 6-1/4

7-1/2"

Ordering Information

7-1/2"



Example: LP6F 26-42TRT 607A MVOLT

	Options		
GEB10	Generic electronic ballast, THD (total harmonic distortion) <10%.		
HPF	Electromagnetic high power factor (90% power factor 120V, 277V or 347V).		
ADEZ	Advance Mark 10™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.		
DMHL	Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Minimum dimming level 5%.		
LRC	Provides compatibility with Lithonia Reloc System (standard with electronic ballast).		
EL	Emergency battery pack with integral test switch. ²		
ELR	Emergency battery pack with remote test switch. ²		
GMF	Single slow-blow fuse.		
WLP	35K lamp (shipped separately).		
TRW	White flange.		
6-7.	See trim for height 8-3/4" 8-3/4"		



CCR62

1-Lamp, Triple-Tube (TRT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluorescent

Features

Mechanical - Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

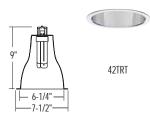
Electrical System - Electronic multi-volt ballast (120V through 277V), multi-wattage (26-42TRT) with end of life protection provided on master fixture. 11-foot inter-connecting cable provided on remote fixture to reduce installation time. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

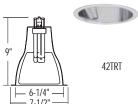
Non-IC-Rated Full Reflectors - All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open reflector 607 White Other finishes: A/AZ/G/GZ/PR/WTZ



Wallwash with integral kicker

Other finishes: A/AZ/G/GZ/PR/WTZ



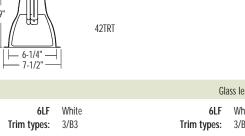
Open reflector Mutlitplier

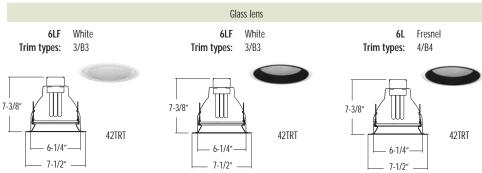
6M1 Other finishes: AZ/GZ/BLZ



Baffle with diffuse upper reflector 6B3 Black Other finishes: W

42TRT





Ordering Information

Series Wattage/lamps Reflector White open Clear diffuse wallwash CCR62 26-42TRT 607 6W7A 607A Clear diffuse open 6W7A7 Clear specular wallwash 26TRT 607AZ Clear specular open 6W7G Gold diffuse wallwash 32TRT 6W7GZ Gold specular wallwash 607G Gold diffuse open 42TRT 607GZ Gold specular open 6W7PR Pewter diffuse wallwash 607PR Pewter diffuse open 6W7WTZ Wheat specular wallwash **607WTZ** Wheat specular open 6LD3 6M1AZ Clear specular multiplier 6LDB3 6M1GZ Gold specular multiplier 6LF3 6M1BLZ Black specular multiplier

Black baffle

White baffle

White wallwash

Voltage MVOLT3

White splay, opal lens2 Black baffle, opal lens2 White splay, white lens2 6LFB3 Black baffle, white lens2 White splay, fresnel lens2 614 6LB4 Black baffle, fresnel lens2

STANDARD PACKAGING **To order**, use single master catalog number. Example: (12) CCR62 26-42TRT 607AMVOLT

Fixtures ship as multiple components using optimized packaging. Example above ships as

(Qty12) CCR62* (6 cartons of 2 housings) (Qty24) 607A (24 cartons of 1 reflector) *Standard 26-42 TRT MVOLT

Not available with WLP.

NOTES:

GMF

TRW

 $2\quad Lens removal required before EL testing. Lens door pulls down for EL testing.$

Example: CCR62 26-42TRT 607A MVOLT

Single slow-blow fuse.

White flange.

35K lamp (shipped separately).

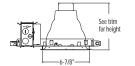
Options

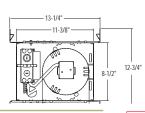
EL Emergency battery pack with remote test switch.

Emergency battery pack with remote test switch.

3 MVOLT – Electronic multi-volt ballast capable of operating any line voltage from 120-277,50 or 60Hz.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.





6B3

6B3W

6W7



www.lithonia.com, keyword: CCR62

Non-IC Rated Full Reflectors – All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open reflector

J01 White

Other finishes: AZ/GZ

13DTT 7-5/8 _4-1/2"-

Baffle

White reflector/

13DTT

black baffle

W/C/G

JB4

4-5/8" 6-1/4"

Other finishes:

7-5/8

Open cone

JC1

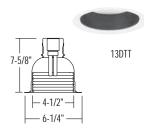
Other finishes: AZ/GZ/BLZ



Premium metal baffle

JB1 White reflector/ black baffle

Other finishes: W



Voltage

120

277

347

1-Lamp, Double Twin-Tube (DTT)



Intended Use

New construction applications requiring high performance vertical reflectors using compact fluorescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Normal power factor (NPF) ballast standard. Électronic multi-volt ballast, 120V through 277V with end of life protection. Maximum 8 (4 in, 4 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Wattage/lamp Reflector Series LQJ 13DTT 101 White open reflector J01AZ Clear specular open reflector J01GZ Gold specular open reflector JC1AZ Clear specular cone Gold specular cone JC1GZ JC1BLZ Black specular cone White reflector/black baffle IB1 JB1W White reflector/white baffle IR4 White reflector/black baffle JB4W White reflector/white baffle JB4C White reflector/chrome baffle White reflector/gold baffle JB4G

Example: LQJ 13DTT JO1 120

Options Generic electronic ballast, THD (total harmonic GEB10 distortion) < 10%. High power factor (90% power factor). **GMF** Single slow-blow fuse. Provides compatibility with Lithonia Reloc System. LRC WLP 35K lamp (shipped separately).

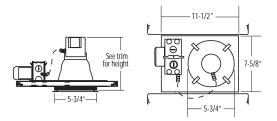
STANDARD PACKAGING

To order, use single master catalog number. Example: (13) **LQJ 13DTT JO1 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Oty 13) LQJ 13DTT 120 (13 cartons of 1 housing) (Qty13) JO1 (13 cartons of 1 reflector)

www.lithonia.com, keyword: LQJ





Drawings are for dimensional detail only and may not represent actual

mechanical configuration. Dimensions are shown in inches

LITHONIA DOWNLIGHTING

286

LP8H



Intended Use

New construction applications requiring high performance vertical reflectors using HID lamps.

Features

Mechanical - Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Metal halide frame-ins have safety sockets standard and accept only safety lamps (open rated reflectors). For enclosed reflectors, ENCL must be specified. High-pressure sodium and metal halide durable porcelain socket with nickel-plated alloy screw shell and contact. Sockets are pulse rated. Encased-and-potted, high power factor (HPF), dual-tab, 120/277V ballast is standard. Electronic 120,277V ballast available. Thermally protected against improper contact with insulation and approved for through-branch circuit wiring. Socket attaches to reflector with pre-mounted screws to ensure proper and consistent lamp position. Die-cast aluminum lampholder housing. Designed for effective heat dissipation and positive light center positioning.

Listings

UL Listed to U.S. and Canadian safety standards.

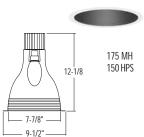
Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open reflector 802 White Other finishes: A/AZ/G/GZ/PR/WTZ



Baffle with specular upper reflector 8B3 Black baffle

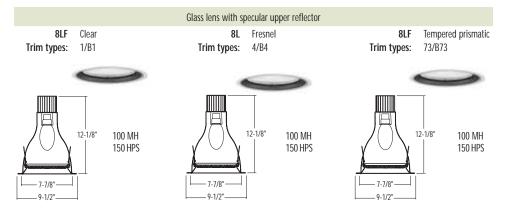




Wallwash with integral kicker

8W1 White Other finishes: A/AZ/G/GZ/PR/WTZ





Ordering Information

Wattage/lamp¹ Series LP8H Metal Halide² 50W MP50/C/U/MED 50M 70W MP70/C/U/MED 70M 100W MP100/C/U/MED 175W MP175/BU SY³ 175M **High Pressure Sodium** 50W LU50/D/MED3 **50S** 70W LU70/D/MED3 **70S** 100W LU100/D/MED3 100S 150S 150W LU150/D/MED3

	Ref	flector	
802 802A 802AZ 802G 802GZ 802PR 802WTZ	White open Clear diffuse open Clear specular open Gold diffuse open Gold specular open Pewter diffuse open Wheat specular open	8W1G 8W1GZ 8W1PR 8W1WTZ 8LF1 8LFB1	Gold diffuse wallwash Gold specular wallwash Pewter diffuse wallwash Wheat specular wallwash White splay, clear lens Black baffle, clear lens White splay, fresnel lens
8B3	Black baffle	8LB4	Black baffle, fresnel lens
8B3W	White baffle	8LF73	White splay, tempered
8W1	White wallwash		prismatic lens
8W1A	Clear diffuse wallwash	8LFB73	Black baffle, tempered
8W1AZ	Clear specular wallwash		prismatic lens

Example: LP8H 50M 8O2 120/277

Voltage		Options
120/277 ³ 120 277	HEB LRC	Electronic ballast. Provides compatibility with Lithonia Reloc System.
347 ³	SF ENCL	Single fuse. Must specify voltage. Standard medium-base socket. For use when 50, 70, 100 and 150 metal halide frame-in is used with PAR38 metal halide lamps or ceramic metal halide lamps.
	TRW	White flange.

17-1/2"

STANDARD PACKAGING

To order, use single master catalog number. Example: (12) **LP8H50M802120/277**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 12) LP8H50M120/277 (12 cartons of 1 housing) (Qty 12) 802 (12 cartons of 1 reflector)

www.lithonia.com, keyword: LP8H

- 1 Refer to specification sheet for "with lamp" ordering information.
- 2 Metal Halide frame-ins have safety sockets standard and accept only safety lamps unless ordered with ENCL option. Ceramic Metal Halide (CMH) lamps must use ENCL option.
- 3 Not available with HEB.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



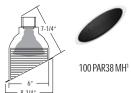
Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

LP6H

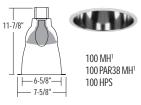


Sloped baffle (narrow flange)

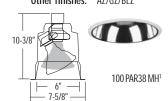
Other finishes: W



Open reflector mutlitplier 6M1 Other finishes: AZ/GZ/BLZ



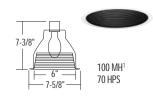
Adjustable cone 6AC2 Other finishes: AZ/GZ/BLZ



61 F White

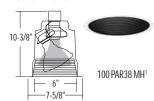
Baffle with diffuse upper reflector

6B3 Black baffle Other finishes: W



Adjustable cone with baffle

6AB2 Black Other finishes:



Features

mance vertical reflectors using HID lamps.

Intended Use

New construction applications requiring high perfor-

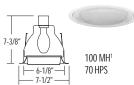
Mechanical - Rugged, galvanized steel frame-in with Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Metal halide frame-ins have safety sockets standard and accept only safety lamps (open rated reflectors). For enclosed reflectors, ENCL must be specified. High-pressure sodium and metal halide durable porcelain socket with nickel-plated alloy screw shell and contact. Sockets are pulse rated. Encased-and-potted, high power factor (HPF), dual-tab, 120/ 277V ballast is standard. Electronic 120,277V ballast available. Thermally protected against improper contact with insulation and approved for throughbranch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

6LD Drop opal Trim types: 3/B3



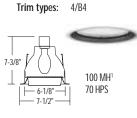




Trim types:

Glass lens

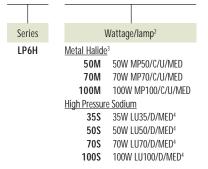
3/B3



Fresnel

4/B4

Ordering Information



	Ref	lector	
608 608A 608AZ 608G	White open Clear diffuse open Clear specular open Gold diffuse open	6AC2BLZ 6AB2 6AB2W 6B3	Black specular adjustable cone Black adjustable cone White adjustable cone Black baffle
608GZ 608PR	Gold specular open Pewter diffuse open	6B3W 6SB1	White baffle Sloped black baffle
608WTZ 6M1AZ 6M1GZ	Wheat specular open Clear specular multiplier Gold specular multiplier	6SB1W 6LD3 6LDB3	Sloped white baffle White splay, drop opal lens Black baffle, drop opal lens
6M1BLZ 6AC2AZ	Black specular multiplier Clear specular adjustable cone	6LF3 6LFB3 6L4	White splay, white lens Black baffle, white lens White splay, fresnel lens
6AC2GZ	Gold specular adjustable con		Black baffle, fresnel lens

Example: LP6H 50M 120/277

Volts		Options
120/277 ⁴ 120 277 347 ⁴	HEB LRC SF ENCL	Electronic ballast. Provides compatibility with Lithonia Reloc System. Single fuse. Must specify voltage. Standard medium-base socket. For use when 50, 70, 100 and 150 metal halide frame-in is used with PAR38 metal halide lamps or ceramic metal halide lamps. White flange.

NOTES:

- 1 Must order ENCL option.
- 2 Refer to specification sheet for "with lamp" ordering information.
- 3 Metal Halide frame-ins have safety sockets standard and accept only safety lamps unless ordered with ENCL option.
- 4 Not available with HEB.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

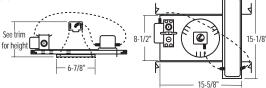
STANDARD PACKAGING

To order, use single master catalog number. Example: (12) LP6H 50M 608 120/277

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty12) LP6H 50M 120/277 (12 cartons oF 1 housing) (Qty12) 608 (12 cartons of 1 reflector)

www.lithonia.com, keyword: LP6H



NOTES: Height measurements shown are formetal halides a fety socket. For high pressure sodium and non-safety-socket metal halide, subtract 5/8" from height shown.



288

Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1-1/2". Consult factory for thicker ceiling applications.



Intended Use

New construction applications requiring high performance vertical reflectors using incandescent lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Durable medium-base porcelain socket with nickel-plated copper alloy screw shell and contact. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided.

Listings

UL Listed to U.S. and Canadian safety standards.



Open reflector

802 White Other finishes: A/AZ/G/GZ/PR/WTZ





200 A23 200 PS25 250 PAR38 250 BR40

Baffle with specular upper reflector

8B3 Black baffle Other finishes: W



200 A23

200 PS25

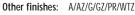
250 PAR38

250 BR40



Open wallwash with kicker

8W1 White







200 A23 200 PS25 250 PAR38 250 BR40

			Gla	ss lens
8LF	Clear		8L	Fresnel

Trim types: 1/B1



100 A19 150 PS25 150 PAR38

120 BR40

4/B4

Trim types:

100 A19 150 PS25 150 PAR38 120 BR40

8LF Tempered prismatic Trim types:

73/B73



Ordering Information

Series Reflector White open Gold diffuse wallwash IP8 802 8W1G Clear diffuse open 8W1GZ Gold specular wallwash 802A 802AZ 8W1PR Pewter diffuse wallwash Clear specular open 802G Gold diffuse open 8W1WTZ Wheat specular wallwash 802GZ White splay, clear lens Gold specular open 8LF1 802PR Pewter diffuse open 8LFB1 Black baffle, clear lens 802WTZ Wheat specular open 8L4 White splay, fresnel lens Black baffle Black baffle, fresnel lens 8B3 8LB4 8B3W White baffle 8LF73 White splay, tempered 8W1 White wallwash prismatic lens 8LFB73 Black baffle, tempered Clear diffuse wallwash 8W1A prismatic lens 8W1AZ Clear specular wallwash

Example: LP8 802A

Options

277V stepdown transformer (277V to 120V). SDT

White flange

13-1/4" 13-1/8" See trim for height. 8-5/8"

STANDARD PACKAGING

To order, use single master catalog number. Example: (13) LP8 802A

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty13) LP8 (13 cartons of 1 housing) (Qty13) 802A (13 cartons of 1 reflector)

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches



www.lithonia.com, keyword: LP8

Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Adjustable cone



608 White

Other finishes: A/AZ/G/GZ/PR/WTZ

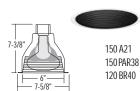




150 A21 150 PAR38 150 BR40

Baffle with specular upper reflector

6B3 Black baffle Other finishes: W





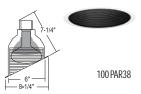
6AC2

Other finishes: A/G/BL

150 PAR38

Sloped baffle

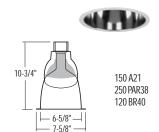
6SB1 Black baffle Other finishes:



Open reflector, multiplier

6M1

Other finishes: A/G/BL





Intended Use

New construction applications requiring high performance vertical reflectors using incandescent lamps.

Features

Mechanical - Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Durable medium-base porcelain socket with nickel-plated copper alloy screw shell and contact. Maximum 8 (4 in, 4 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Glass lens

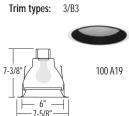
Flush white

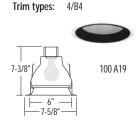
6LF

6LD Drop opal Trim types: 3/B3









4/B4

6L Fresnel

Ordering Information

Reflector Series LP6 White open 6M1G 608 Gold specular multiplier Clear diffuse open 6M1BL Black specular multiplier 608A Black baffle 608AZ Clear specular open 6B3 608G Gold diffuse open 6B3W White baffle Gold specular open 608GZ 6SB1 Sloped black baffle 608PR Pewter diffuse open 6SB1W Sloped white baffle 608WTZ Wheat specular open 6LD3 White splay, drop opal lens Black baffle, drop opal lens 6AC2A Clear specular cone 6LDB3 Gold specular cone 6LF3 White splay, flush white lens 6AC2G 6AC2BL Black specular cone 6LFB3 Black baffle, flush white lens Clear specular multiplier White splay, flat fresnel lens 6M1A 6L4 Black baffle, flat fresnel lens 6LB4

Options

277V stepdown transformer (277V to 120V). SDT

White flange

light**guick**°X0 Express delivery products.

See page11 for details about LightQuick XD.

Description

LP6 J6

608AZ

STANDARD PACKAGING

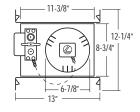
To order, use single master catalog number.

Example: (13) LP6 608A

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 12) **LP6 J6** (2 cartons of 6 housings) (Qty 1) **LP6 U** (1 carton of 1 housing) (Oty 13) 608A (13 cartons of 1 reflector)

See trim for height 6-7/8



Example: LP6 608A

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



www.lithonia.com, keyword: LP6

290

LC6 MRI

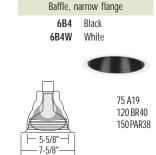
Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.



65 BR30 75 PAR30

Open reflector, wide flange

601 White



Intended Use

New construction applications requiring high performance vertical reflectors using incandescent lamps.

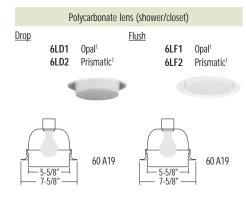
Features

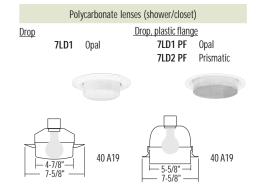
Mechanical – Aluminum housing. Engineering grade thermoplastic frame and junction box with (4) built-in Romex clamps, (5) 7/8" knockouts with pryout slots. Tilt-up captive J-box doors for easy access. Pre-assembled poke-home.

Electrical System – Durable medium-base porcelain socket with nickel-plated copper alloy screw shell and contact. Maximum 4 (2 in, 2 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided.

Listings

UL Listed to U.S. and Canadian safety standards.



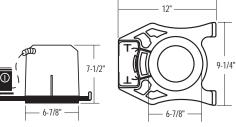


Example: LC6 MRI 6O1

Ordering Information

Series Reflector² LC6 MRI 601 White open 6LF1 Flush opal plastic1 Black baffle Flush prismatic plastic¹ 6B4 6LF2 6R4W Drop opal metal flange White baffle 7LD1 6LD1 Drop opal plastic¹ 7LD1 PF Drop opal plastic flange 6LD2 Drop prismatic plastic¹ 7LD2 PF Drop prismatic plastic

Options 277V stepdown transformer (277V to 120V). SDT White flange



STANDARD PACKAGING To order, use single master catalog number. Example: (13) **LC6 MRI 601**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Oty13) LC6MRI (13 cartons of 1 housing) (Oty12) 601M6 (2 cartons of 6 reflectors) (Oty1) 601U (1 carton of 1 reflector)

www.lithonia.com, keyword: LC6 MRI

NOTES:

- 1 For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).
- 2 For complete reflector selection, refer to specification sheet.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lensed reflectors are wet location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

Open reflector

J01 White

Other finishes: A/G



7-1/2" 4-1/2"— 6-1/4"

100 A19 75 PAR30 65 BR30

Open cone

JC1

Other finishes: A/G/BL





100 A19 75 PAR30 75 BR30

Premium metal baffle

JB1 White reflector/ black baffle

W Other finishes:





75 A19 75 PAR30 65 BR30



Intended Use

New construction applications requiring high performance vertical reflectors using incandescent lamps.

Features

Mechanical - Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Durable medium-base porcelain socket with nickel-plated copper alloy screw shell and contact. Maximum 8 (4 in, 4 out) No. 12 AWG conductor. Rated for 90°C supply wire. Ground wire provided. Class P thermally protected ballast protects against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Baffle

White Reflector/ IB4 black baffle

Other finishes: W/C/G





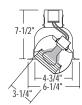
75 A19 75 PAR30 65 BR30

Baffle eyeball

White sphere and JE1 flange w/black baffle

Other finishes:





50 PAR30 75 R20

Ordering Information

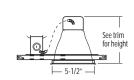
Reflector Series LPJ J01 White open IB4W White reflector/white baffle Clear specular open White reflector/chrome J01A JB4C baffle Gold specular open J01G JB4G White reflector/gold baffle JC1A Clear specular cone White sphere and flange JC1G Gold specular cone w/black baffle JC1BL Black specular cone White sphere and flange White reflector/black baffle IB1 w/white baffle White reflector/white baffle JB1W JB4 White reflector/black baffle

STANDARD PACKAGING

To order, use single master catalog number Example: (13) LPJJ01

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 12) LPJJ6 (2 cartons of 6 housings) (Qty 1) **LPJU** (1 carton of 1 housing) (Qty 13) JO1 (13 cartons of 1 reflector

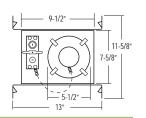


Options

SDT

White flange

277V stepdown transformer (277V to 120V).



Example: LPJ JO1

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,mecha$ configuration. Dimensions are shown in inches.



292



Intended Use

New construction applications requiring high performance vertical reflectors using low voltage lamps.

Features

Mechanical – Rugged, galvanized steel frame-in with trim retaining clips to secure optical system. Galva-nized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System – Precision-wound step-down transformer with Class H insulation. For dimming control, use dimmers specifically designed for use with electromagnetic transformers. 75W MR16 maximum. Plugin lamp connectors and snap-in socket cup. Two-pin porcelain socket with heat shield. Maximum 8 (4 in, 4 out) No. 12 AWG conductors. Rated 90°C supply wire. Ground wire provided. Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Listings

UL Listed to U.S. and Canadian safety standards.

Non-IC-Rated Full Reflectors – All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 1/2". Consult factory for thicker ceiling applications.

VMB4

Other finishes:

Baffle

W

Black

VM Series Trims (MR16)

Adjustable cone

VMA2

Other finishes: A/G/BL



75 MR16

White sphere/flange

eyeball with black



75 MR16



Other finishes: W

75 MR16

VMS1 White with pinhole faceplate

Pinhole

Slotted aperture VMA5

Baffle adjustable

VMA1 Black

White with slotted faceplate



Baffle eyeball

baffle

W

VME4

Other finishes:







75 MR16

VP Series Trims (PAR36)

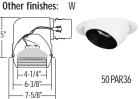
Adjustable cone

VPA2 Other finishes: A/G/BL

Baffle adjustable VPA1 Other finishes:



50 PAR36



Example: LV VMA2A 120

Baffle eyeball

baffle

VPE4

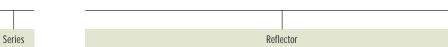
White sphere and

flange w/black



Ordering Information

LV



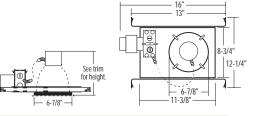
VM Series Trims (MR16) Clear specular adjustable cone VMA2A Gold specular adjustable cone VMA2G VMA2BL Black specular adjustable cone VMR4 Black baffle VMB4W White baffle Black baffle adjustable VMA1 White baffle adjustable VMA1W VMF4 Black baffle eyeball

VME4W White baffle eyeball VMS1 White pinhole adjustable White slotted adjustable VMA5

VP Series Trims (PAR36) VPA2A

Clear specular adjustable cone Gold specular adjustable cone VPA2G VPA2BL Black specular adjustable cone Black baffle adjustable VPA1 VPA1W White baffle adjustable VPE2 Black baffle eyeball White baffle eyeball VPE2W

Voltage 120 277 347



STANDARDPACKAGING

To order, use single master catalog number. Example: (12) **LV VMA2A 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty 12) LV 120 (12 cartons of 1 housing) (Qty 12) VMA2A (12 cartons of 1 reflector)

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Non-IC-Rated Reflectors – All reflectors are damp location listed. Lamp types and maximum wattages are listed for each reflector. Maximum ceiling thickness 2".

Adjustable cone 3V01

Other finishes: AZ/GZ/BLZ



75 MR16

Standard baffle eyeball 3VE2 Other finishes: W





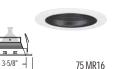




75 MR16

Adjustable with baffle

3VB1 Black Other finishes: W



Eyelid wallwasher 3VW1 White

Pinhole

White

3VS1

- 3-5/8"*-*

75 MR16

75 MR16



Standard eyeball

3VE1 White

Directional wallwash 3VDW1W White





75 MR16

Intended Use

New construction applications requiring high performance vertical reflectors using low voltage lamps.

Features

Mechanical - Rugged, galvanized steel frame-in with one-piece painted steel can. Retaining clips secure optical system. Galvanized bar hangers span up to 24" o.c. and feature built-in nailers and T-bar clips. Galvanized steel junction box with removable access door, (4) Romex knockouts, (2) 3/4" and (4) 1/2" nominal conduit knockouts with pryout slots.

Electrical System - Precision-wound step-down transformer with Class H insulation. For dimming control, use dimmers specifically designed for use with electromagnetic transformers. 75W MR16 maximum. Twopin porcelain socket with heat shield. Maximum 8 (4 in, 4 out) No. 12 AWG conductors. Rated 90°C supply wire. Ground wire provided. Thermally protected against improper contact with insulation and approved for through-branch circuit wiring.

Listings

Example: LP3V 3VO1AZ 120

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Series Reflector Voltage LP3V 3V01AZ 120 Adjustable clear specular cone Adjustable gold specular cone 277 3V01GZ 3V01BLZ Adjustable black specular cone 347 3VB1 Adjustable with black baffle Adjustable with white baffle 3VB1W 3VE1 White eyeball 3VE2 Black baffle eyeball White baffle eyeball 3VE2W 3VW1 White eyelid wallwasher 3VDW1W White directional wallwash White baffle slotted aperture 3VA5 White pinhole **3VS1**

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,mecha$ configuration. Dimensions are shown in inches.

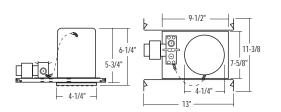
STANDARD PACKAGING

To order, use single master catalog number. Example: (12) **LP3V 3V01AZ 120**

Fixtures ship as multiple components using optimized packaging. Example above ships as:

LP3V120(12 cartons of 1 housing) (Qty12) (Qty12) 3V01AZ (12 cartons of 1 reflector)

www.lithonia.com, keyword: LP3V





WSL1F

Non-IC Rated – These steplights can be used in indoor or outdoor wet locations using lamps and wattages



Intended Use

Rated Non-IC for new construction in indoor applications or outdoor wet locations, such as courtyards and pathways.

Features

Mechanical - Aluminum die-cast, white powder coat paint, corrosion-resistant housing. Louvered, slotted, and open faceplates available. Die-cast powder coat painted faceplates are available in white or black finish. Faceplates are shipped separately.

Electrical System – 9DTT - Encased and potted, high power factor (HPF) electromagnetic ballast standard (120V only). 13DTTE - High power factor (HPF), -20°F to 158°F, instant start electromagnetic ballast standard (120V or 277V). One electrical conduit fitting and one plug provided. Electrical conduit fitting for wet location in wood construction, masonry and poured concrete applications.

Listings

UL Listed to U.S. and Canadian safety standards.



9DTT 13DTTE



Slotted faceplate FPS White FPSBL Black

9DTT 13DTTE



Opal faceplate FP0 White Black **FPOBL**

> 9DTT 13DTTE



Ordering Information

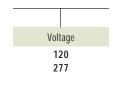


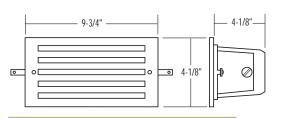
Wattage/lamp 9DTT¹ 13DTTE²

FPL FPLBL FPS FPSBL

Faceplates White louvered Black louvered White slotted Black slotted White opal FP0 **FPOBL** Black opal

Example: WSL1F 9DTT FPLBL 120





STANDARD PACKAGING

To order, use single master catalog number. Example: (12) WSL1F 9DTT FPLBL 120

Fixtures ship as multiple components using optimized packaging. Example above ships as:

(Qty12) WSL1F 9DTT 120 (12 cartons of 1 housing) (Qty12) FPLBL (12 cartons of 1 faceplate)

www.lithonia.com, keyword: WSL1F

NOTES:

- 1 120Vonly.
- 2 Electronic ballast standard.

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



Options

These options must be ordered with housing or frame-in.

Electronic ballast

GEB10 Generic electronic ballast. <10% THD (total harmonic distortion). Requires four-pin lamp.

MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60 Hz.

HEB Electronic HID ballast. 120V or 277V. 50 or 60 HZ. THD <15%. PF>0.90.

Magnetic ballast

HPF High power factor magnetic ballast, 90%

Electronic dimming ballast

ADEZ Advance Mark 10™ electronic ballast, 120V or 277V. Requires four-pin lamp (18DTT, 26DTT, 18TRT, 26TRT, 32TRT, 42TRT or 57TRT only). Minimum dimming

DMHL Lutron Compact SE™ electronic dimming ballast, 120V or 277V. Requires four-pin lamp (18DTT, 26DTT, 18TRT, 26TRT, 32TRT or 42TRT only.) Minimum dimming level 5%.

Stepdown transformer

277V stepdown transformer (277V to 120V). For use with incandescent fixtures (maximum 300 watts)

Fusina

GMF Single slow-blow fuse. For use with fluorescent fixtures only.

SF Single fuse (120V, 277V or 347V only).

Emergency

Emergency battery pack with integral test EL switch. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Not available with a magnetic ballast. Consult factory.

Emergency battery pack with remote test switch. Operates one four-pin lamp in emergency mode with battery back-up in case of power disruption. Not available with a magnetic ballast.

Reloc

Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Not required on electronic CFL units.

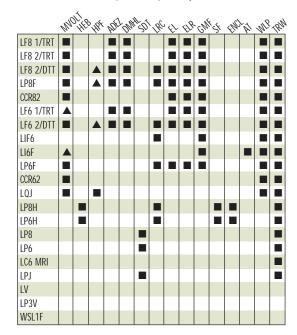
Miscellaneous

ENCL Standard medium-base socket. For use when 50, 70, 100 and 150 metal halide frame-in is used with PAR38 metal halide or ceramic metal halide lamps.

Sealed airtight housing to minimize air flow through frame-in. Complies with WSEC and certified per ASTM F283

WLP 35K lamp (shipped separately).

Options Compatibility



Option available

(blank) Option not available

▲ Standard

Accessories

Accessories must be ordered separately.

Remodeler clips

ARC Used to secure frame-ins in ceiling in remodel applications. Available in master pack of 24 only.



Bar hangers

LBH Extended bar hangers used for extreme off-center mounting in a 24" space. Set of two 22" bar hangers. For use with 4", 5" or 6" frame-ins only.



T-bar mounting clips

LSMC Designed to lock bar hangers to T-bar. Set of 4 clips.



Channel bar mounting brackets

LCMB Used when commercial channel bars are desired to mount fixture. Channel bars not included. Set of two brackets. For use with 4", 5" or 6" frame-



Color filters/specialty lenses

F200 DB	Dark blue
F200 MA	Medium amber
F200 MB	Medium blue

PSG9

F200 MG F200 MP F200 RR

Medium green Medium pink Ruby red

ins only

F200 UV Ultra violet Spread lens F200 SL Elongating lens F200 EG F200 SFG Softening lens



For use on 6" low voltage trims using a MR16 lamp. Not for use on 4" low voltage trims. See page 345 for complete selection.

Ceiling thickness extender

Use when ceiling thickness is greater than 1-1/2". Maximum thickness 2" (5.1cm). For use with 6" reflectors only. Not compatible with VPE2, VMB4, F6-Series and 7-Series reflectors.

CTE8 Use when ceiling thickness is greater than 1-1/2". Maximum thickness 2" (5.1cm). For use with 8" reflectors only



Sloped ceiling adapter

Sloped ceiling adapter. Compatible with 8-inch and 6-inch commercial fixtures. Available in 5-degree increments, 10 degrees through 30 degrees. White only. See chart for fixture compatibility. Fx: SCA6 15D

Oversize trim rings

CTR5 7-1/8" (19.9 cm) 0.D. Use with J Series trims only.

CTR6 8-3/4" (22.2 cm) O.D. Use with 6, 7, C and F6 Series trims. Compatible with all 7-5/8" flanged trims only.



Accessories Compatibility

	PBC	151	V BY	100	oth.	SA	129
LF8 1/TRT							
LF8 2/TRT							
LF8 2/DTT							О
LP8F							
CCR82							О
LF6 1/TRT							
LF6 2/DTT							
LIF6							
LI6F							
LP6F							
CCR62	О			О			
LQJ							
LP8H							О
LP6H				П			
LP8							О
LP6							
LC6 MRI							
LPJ							
LV							
LP3V							
WSL1F							

Option available (blank) Option not available



296



Lithonia Residential Recessed

Lithonia Lighting offers a complete line of residential recessed products to meet the varying needs of our customers. The recessed line offers products with 3", 5" and 6" apertures in incandescent, low voltage and compact fluorescent sources.

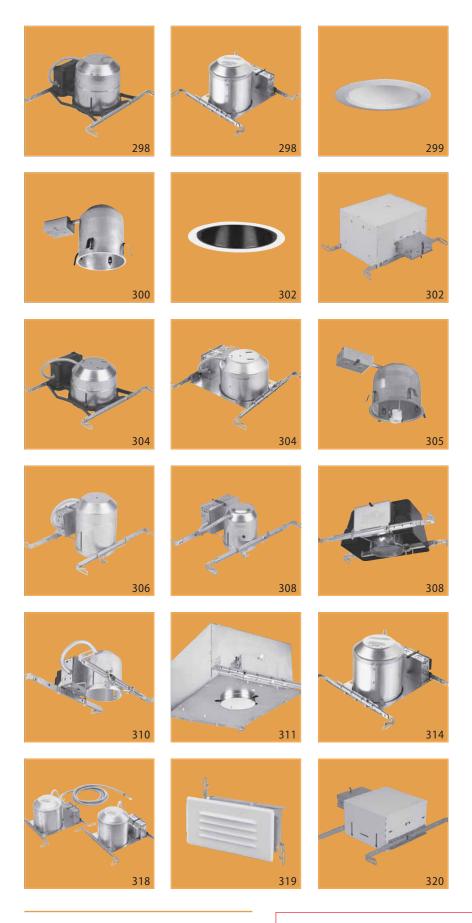
Our housings are designed to provide the easiest installation in the industry while requiring the fewest SKUs for standard applications. All our recessed trims offer a full reflector design, which maximizes lamp position and provides an exceptional overall appearance.





www.lithonia.com

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Options & Accessories

Lamp Performance

Packaging

298

LC6 & L7X

IC Rated Full Trims – All trims are damp location listed. Lensed trims are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.

For additional IC rated trims, see page 304.

Premium open trim, wide flange

Premium deep baffle, narrow flange

Premium baffle eyeball

White/black

White/white

Standard eyeball

White

40 A19

65 BR30/BR40

75 PAR30/PAR38

65 BR30

75 PAR30

65 BR30 75 PAR30

Black

White

601 White

Standard open trim, narrow flange 702 White¹ 702A Clear diffuse

Clear specular 702AZ Gold diffuse 702G 702GZ Gold specular 702BLZ Black specular

Premium open eyeball

7B2 Black 7B2W White1

75 PAR30

Premium regressed open eyeball

6RE1 Black/white 6RE1W White/white



65 BR30 75 PAR30

Premium eyelid wallwash

CW1 White



Premium pinhole White

Flush opal1 Flush prismatic¹ CLF2 CLD1

Drop opal¹ Drop prismatic¹ CLD2





Intended Use

Recessed housing rated IC or Non-IC for new construction applications. Approved for direct burial in insulation (IC) and throughbranch circuit wiring. Approved for most wiring and ceiling types.

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips. Bar hanger locking screw holds fixture firmly in place.

Socket clips to trim to ensure proper and consistent lamp position. Product ships in retail pack of six (R6) only.

LC6 (Premium) - Injection-molded frame with aluminum can for superior thermal performance for a wider range of trims. Romex only (not for pulling wires). Featuring poke-home wire connectors, built-in Romex clamps and ground wire.

Suitable for ceilings up to 2-3/4" thick.

L7X (Standard) - Steel frame with aluminum can for superior thermal performance for a wider range of trims.

Air-tight standard. Meets current energy codes.

J-box has built in Romex clamps and ground wire. Suitable for ceiling up to 1" thick.

Listings

UL Listed to U.S. and Canadian safety standards.



6B2

6E2

6E2W

6B2W



65 BR30 75 PAR30



















6E1 White

> 65 BR30 75 PAR30

65 BR30

Premium regressed baffle eyeball

Premium baffle, wide flange

Black

White

6B1

6B1W

6RE2 Black/black 6RE2W White/white



CS1

65 BR30 75 PAR30

40 A19

50 R20 50 PAR20



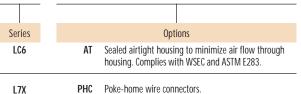




40 A19

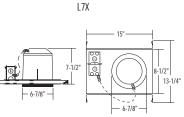
Example: LC6

Ordering Information



LC6





www.lithonia.com, keywords: LC6 and L7X

Premium polycarbonate lens





1 For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

Non-IC Rated Full Trims — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp types and maximum wattages are listed for each trim. White flange standard.

Premium open trim, narrow flange

602 White 602SA Clear diffuse Clear specular 602A Gold diffuse 602SG 602G Gold specular

Premium baffle, narrow flange

Premium adjustable baffle

Black

White

6B4 6B4W White

Standard baffle, narrow flange

7B5 7B5W White

Premium open cone w/diffuse upper trim

Premium eyelid wallwash w/baffle

Black

White

6C3A Clear specular Gold specular 6C3G 6C3BL Black specular







6AB1

6AB1W

75 A19 120 BR40



6W1





6W2

6W2W



Premium adjustable cone

6AC1A Clear specular 6AC1G Gold specular Black specular











Premium polycarbonate lens Drop opal¹ Drop prismatic¹

Flush opal1

Flush prismatic¹

Premium eyelid wallwash

White







6LD3 Drop opal, white splay Drop opal, black baffle 6LDB3 6LF3 Flush white, white splay 6LFB3 Flush white, black baffle 6L4 Fresnel, white splay 6LB4 Fresnel, black baffle

Glass lens



6LD1

6LD2

6LF1







WETlite™

6H20 White (ships with outdoor-rated 75W PAR38 lamp)





75 PAR30





75 A19





60 A19

light**quick**°XD Express delivery products.

See page11 for details about LightQuick XD.

Description

LC6 R6 L7X R6

6B1W M6

 $1\quad For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).$

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

Intended Use

Recessed housing rated IC or Non-IC for remodel applications. Ap-

proved for factory-assembled wiring only. Approved for direct

Features

One-piece aluminum self-flanged can provides maximum structur-

J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring. Approved for all ceiling types (including air-

One-piece, heavy-gauge, galvanized steel raceway arm/J-box fits

Suitable for ceilings up to 1-1/2" thick. Four (4) factory-installed

remodel clips lock housing in place and automatically adjust for

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed to U.S. and Canadian safety standards.

LITHONIA RESIDENTIAL RECESSED

300

L7XR

burial in insulation (IC).

handling plenums). Not for pulling wires.

easily through ceiling opening.

al integrity

ceiling thickness.

IC Rated Full Trims - All trims are damp location listed. Lensed trims are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.

For additional IC rated trims, see page 304.

601 White

Standard open trim, narrow flange

702 White¹ 702A Clear diffuse Clear specular 702AZ Gold diffuse 702G 702GZ Gold specular 702BLZ

Black specular

Standard baffle, narrow flange

Black

White1

7B2

7B2W

65 BR30 75 PAR30

65 BR30

75 PAR30



6B1

6B1W

Premium open eyeball

Premium baffle, wide flange

Black

White

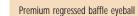
6E1 White





65 BR30 75 PAR30

65 BR30



6RE2 Black/black 6RE2W White/white







Premium open trim, wide flange



65 BR30 75 PAR30

Premium deep baffle, narrow flange

6B2 Black 6B2W White



40 A19 65 BR30/BR40 75 PAR30/PAR38

Premium baffle eyeball

Standard eyeball

White

6E2 White/black 6E2W White/white



7E1



65 BR30 75 PAR30



6RE1

6RE1W



65 BR30 75 PAR30



Premium regressed open eyeball

Black/white

White/white

White CW1



40 A19

Premium pinhole

Premium polycarbonate lens

Flush opal1 Flush prismatic¹

Drop opal¹

Drop prismatic¹

White CS1



CLF2

CLD1

CLD2

40 A19 50 R20 50 PAR20

40 A19

Ordering Information

Series

Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283.

Poke-home wire connectors.

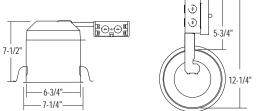
Example: L7XR

L7XR

Options

PHC

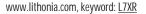




1 For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



INTHONIA LIGHTING

Non-IC Rated Full Trims – All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. Lamp types and maximum wattages are listed for each trim. White flange standard.

Premium open trim, narrow flange

602 White 602SA Clear diffuse Clear specular 602A 602SG Gold diffuse 602G Gold specular



100 A19 120 BR40 150 PAR38

Premium baffle, narrow flange

Premium adjustable baffle

Glass lens

Drop opal, white splay

Drop opal, black baffle

Flush white, white splay

Black

White

6B4 6B4W White

Standard baffle, narrow flange

Premium eyelid wallwash

Premium polycarbonate lens Drop opal¹ Drop prismatic¹

Flush opal1

Flush prismatic¹

White

7B5 Black 7B5W White

Premium open cone w/diffuse upper trim

Premium eyelid wallwash w/baffle

Black

White

6C3A Clear specular Gold specular 6C3G 6C3BL Black specular



120 BR40

120 PAR38



6W2

6W2W



Premium adjustable cone

Clear specular 6AC1A 6AC1G Gold specular 6AC1BL Black specular





65 BR30 75 PAR30



6LD3

6LF3

6LDB3

6AB1

6AB1W



75 A19

120 BR40

150 PAR38



6LD1

6LD2

6LF1

6LF2

6W1







WETlite™

6H20 White (ships with outdoor-rated 75W PAR38 lamp)





75 PAR30







75 A19





60 A19

 $1\quad For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).$

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

302

6" IC High Wattage/Sloped Ceiling Housing

LI6

ceiling types.

IC Rated Full Trims — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.

Premium open trim, narrow flange

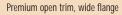
Clear diffuse

Clear specular

Gold diffuse

Gold specular

White



Deep baffle, narrow flange

Premium adjustable cone

Clear specular

Gold specular

Black specular

Black

White

White





65 BR30

602

602SA

602A

602SG 602G

60 A19 (white) 75 A19 (others) 90 BR40 100 PAR38

6B1W



Premium open cone w/diffuse upper trim

Clear specular

Gold specular

Black specular

Premium open eyeball

Premium baffle, wide flange

Black

White

Premium baffle, narrow flange

6B4 Black 6B4W White





75 A19 90 BR40 100 PAR38





6E1 White

6C3A

6C3G

100 A19 90 BR40 100 PAR38

Features

Intended Use

Recessed housing rated IC for new construction applications. Hous-

ing also can be used in Non-IC applications using lamps, wattages,

and trims listed on page. Approved for direct burial in insulation and through-branch circuit wiring. Approved for most wiring and

Pre-painted steel housing with galvanized steel J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips.

J-box has poke-home wire connectors and built-in Romex clamps. Socket clips to trim to ensure proper and consistent lamp position.

UL Listed to U.S. and Canadian safety standards.



6AC1A

6AC1G

6AC1BL

6B2

6B2W

65 BR30/BR40 75 PAR30 75 PAR38

40 A19

Premium adjustable baffle

6AB1 Black 6AB1W White











65 BR30 75 PAR30

Listings



65 BR30 75 PAR30



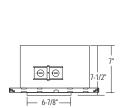


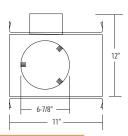
Example: LI6

65 BR30 75 PAR30

Ordering Information







NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

www.lithonia.com, keyword: LI6

🖊 LITHONIA LIGHTING

IC Rated Full Trims — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.

Premium baffle eyeball

6E2 White/black 6E2W White/white







Premium regressed open eyeball

Black/white 6RE1W White/white





75 PAR30

Premium regressed baffle eyeball

Black/black 6RE2W White/white





75 PAR30



6W1

Premium eyelid wallwash

White

40 A19

Premium eyelid wallwash w/baffle

6W2 Black 6W2W White

Premium pinhole

Premium baffled sloped ceiling

Black

White

6**S**1 White





40 A19



6SB1

6SB1W



Glass lens

Drop opal, white splay 6LD3 6LDB3 Drop opal, black baffle Flush white, white splay 6LFB3 Flush white, black baffle Fresnel, white splay 6L4 Fresnel, black baffle 6LB4



60 A19

Premium polycarbonate lens

6LD1 Drop opal¹ Drop prismatic¹ 6LD2 Flush opal¹ Flush prismatic¹ 6LF2





40 A19

Sloped ceiling (Directs light straight down from 2/12 (9°) to 12/12 (45°) ceiling pitch.)

Premium open sloped ceiling

6S01 White









 $1\quad For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).$

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

304

LCP & L7XP

IC Rated Full Trims — All trims are damp location listed. Lensed trims are wet location listed. These trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard, except as noted.



Premium open trim, wide flange

CO1 White

60 A19

65 BR30 75 PAR30

Premium open trim, narrow flange

CO2 White
CO2SA Clear diffuse¹
CO2A Clear specular¹
CO2GA Gold diffuse¹
CO2G Gold specular¹



60 A19 65 BR30 75 PAR30



Standard open trim, wide flange

701 White



65 BR30 75 PAR30

Intended Use

Recessed housing rated IC for new construction applications. Housing also can be used in Non-IC applications using lamps, wattages, and trims listed on page. Approved for direct burial in insulation and through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips. Bar hanger locking screw holds fixture firmly in place. Socket clips to trim to ensure proper and consistent lamp position. Product ships in retail pack of six (**R6**) only.

LCP (Premium) – Injection-molded frame with aluminum can for superior thermal performance for a wider range of trims.

Romex only. Not for pulling wires. J-box features poke-home wire connectors, built-in Romex clamps and ground wire.

Suitable for ceilings up to 2-¾" thick.

LTXP (Standard) — Steel frame with aluminum can for superior thermal performance for a wider range of trims.

Air-tight standard. Meets current energy codes.

J-box features poke-home wire connectors, built-in Romex clamps and ground wire.

Suitable for ceiling up to 1" thick.

Listings

UL Listed to U.S. and Canadian safety standards.

Premium baffle, wide flange

CB1 Black CB1W White



40 A19 65 BR30 75 PAR30

Standard baffle, wide flange

7BO Black 7BOW White



Premium baffle eyeball

White/black

65 BR30 75 PAR30

Premium open eyeball

CE1 White



75 PAR30

Standard eyeball

Premium eyelid wallwash

White

7E1 White



65 BR30 75 PAR30

40 A19

CE2W White/white



CE2

65 BR30 75 PAR30

40 A19 50 R20

Premium pinhole

CS1 White

65 BR30 50 PAR30

Premium polycarbonate lens

Standard regressed eyeball

White

7RE1

CLF1 Flush opal²
CLF2 Flush prismatic²

CLD1 Drop opal²
CLD2 Drop prismatic²





40 A19

Ordering Information

Series Options

LCP AT Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283.

L7XP N/A

NOTES:

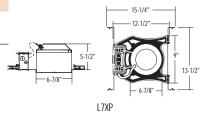
- 1 Flange matches trim finish.
- $2\quad For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).$

 ${\it IMPORTANT}. For packaging information, see page 322. See specification sheets for complete trim selection.$

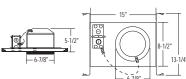
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.



Example: **LCP**



LCP



www.lithonia.com, keywords: LCP and L7XP

Standard polycarbonate lens

7LD1 Drop opal
7LD1 PF Drop opal, plastic flange
7LD2 PF Drop prismatic, plastic flange







See page11 for details about LightQuick XD.

Description LCP R6

CO1 M6

PSG9

IC Rated Full Trims — All trims are damp location listed. Lensed trims are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard, except as noted

Premium open trim, narrow flange

L7PR

Premium open trim, wide flange

CO1 White







Clear diffuse¹ CO2SA CO2A Clear specular1 Gold diffuse¹ CO2GA CO2G Gold specular

Standard baffle, wide flange

Black

White



7R0





65 BR30

CE1

Standard open trim, wide flange

701 White



Intended Use

Recessed shallow housing rated IC for remodel applications. Housing also can be used in Non-IC applications using lamps, wattages, and trims listed on page. Approved for direct burial in insulation. Approved for most wiring and ceiling types.

Features

One-piece aluminum self-flanged can provides maximum structural integrity.

J-box has built-in Romex clamps, ground wire, and snap on/off door for easy wiring. Not for pulling wires.

One-piece, heavy-gauge, galvanized steel raceway arm/J-box fits easily through ceiling opening, existing ceiling.

Suitable for ceilings up to 1/2" thick. Four (4) factory-installed remodel clips lock housing in place and automatically adjust for ceiling thickness.

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed U.S. and Canadian safety standards.

Premium baffle, wide flange

Black CR1 CB1W White



40 A19 65 BR30 75 PAR30





65 BR30 75 PAR30



75 PAR30

Premium open eyeball

White

Standard eyeball

7E1 White



65 BR30 75 PAR30

Premium baffle eyeball

Premium pinhole

White

CE2 White/black White/white CF2W



65 BR30 75 PAR30



Premium polycarbonate lens Flush opal²

Flush prismatic²

Standard regressed eyeball



65 BR30 50 PAR30

Premium eyelid wallwash CS1

White











CLF1

CIF2



40 A19

Standard polycarbonate lens

7LD1 7LD1 PF 7LD2 PF

Drop opal Drop opal, plastic flange Drop prismatic, plastic flange





40 A19

Ordering Information

Series Options L7PR

Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283.

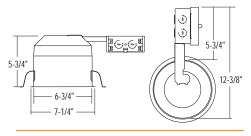
PHC Poke-home wire connectors.

- 1 Flange matches trim finish
- 2 For plastic flange, add suffix PF to catalog number (Example: CLF1 PF).

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches

www.lithonia.com, keyword: L7PR





Example: L7PR

L5

IC Rated Full Trims — All trims are damp location. Lensed trims and WETlite™ are wet location listed. These IC trims also can be used in Non-IC applications using lamps and wattages listed below. White flange standard.

Open trim, wide flange

501 White



Intended Use

Recessed housing rated IC for new construction applications. Housing also can be used in Non-IC applications using lamps, wattages, and trims listed on page. Approved for direct burial in insulation and through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

One-piece aluminum can. Galvanized steel rod frame and J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers and T-bar clips. Snap-lock rail clip locks fixture into place. J-box has built-in Romex clamps and a ground wire.

Suitable for ceilings up to 2-3/4" thick.

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed to U.S. and Canadian safety standards.



Deep baffle

5B2 Black 5B2W White





50 R20 65 BR30 50 PAR30 60 PAR38

WETlite™

5H20 White (Ships with outdoor-rated 75W PAR38 lamp)





75 PAR38

Open trim, narrow flange

502 White
502A Clear diffuse
502AZ Clear specular
502G Gold diffuse
502BLZ Black specular

- 5-1/2" - 6-3/8"

50 R20 65 BR30 75 PAR30 (short-neck) 60 PAR38 (anodized)

Eyeball

5E1 White



50 R20 65 BR30 50 PAR20 75 PAR30 (long neck) Shallow baffle

5B1 Black 5B1W White



50 R20 50 PAR20

75 PAR30 (short-neck)

Polycarbonate lens

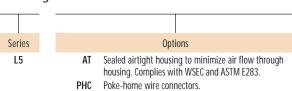
5LD1 Drop opal

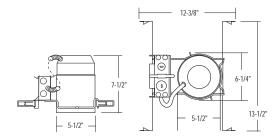




40 A19

Ordering Information





LITHONIA LIGHTING

Example: **L5**

NOTES:

IMPORTANT: For packaging information,, see page 322. See specification sheets for complete trim selection.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.

www.lithonia.com, keyword: <u>L5</u>

Example: L5R

IC Rated Full Trims — All trims are damp location listed. Lensed trims and WETlite™ are wet location listed. These IC trims also can be used in Non-IC applications using lamps and wattages listed below. White flange standard.

L5R

Open trim, wide flange

501 White



Deep baffle

5B2 Black 5B2W White



75 PAR30



50 R20 65 BR30 50 PAR30 60 PAR38

WETlite™

5H20 White (Ships with outdoor-rated 75WPAR38 lamp)





75 PAR38

Open trim, narrow flange

502 White 502A Clear diffuse 502AZ Clear specular 502G Gold diffuse 502GZ Gold specular 502BLZ Black specular



50 R20 65 BR30 75 PAR30 (short-neck) 60 PAR38 (anodized)

Eyeball

5E1 White



65 BR30

50 PAR20

75 PAR30

(long neck)

- 3-7/8" — - 6-3/8" —



5B1 Black 5B1W White



50 R20 50 PAR20 75 PAR30 (short-neck)

Polycarbonate lens

5LD1 Drop opal





40 A19



Intended Use

Recessed housing rated IC for remodel applications. Housing also can be used in Non-IC applications using lamps, wattages, and trims listed on page. Approved for direct burial in insulation. Approved for most wiring and ceiling types.

Features

One-piece aluminum self-flanged can provides maximum structural integrity.

J-box has built-in Romex clamps, ground wire and snap on/off door for easy wiring. One-piece, heavy-gauge, galvanized steel raceway arm/J-box fit easily through ceiling opening. Not for pulling wires. Suitable for ceilings up to 1/2" thick. Four (4) factory installed remodel clips lock housing in place and automatically adjust for ceiling thickness.

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information Series Options L5R AT Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283. PHC Poke-home wire connectors.

NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for complete trim selection.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.

7-1/2"
| 5-3/4" | 5-1/4"
| 6-1/8"

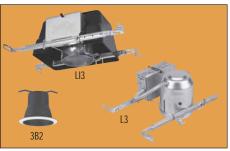
www.lithonia.com, keyword: L5R



308

LI3 & L3

IC/Non-IC Rated Full Trim — All trims are damp location listed. WETlite™ is listed for wet locations. Lamp types and maximum wattages are listed for each trim. White flange standard, except as noted.



Intended Use

Recessed housing rated IC or Non-IC for new construction applications. Approved for direct burial in insulation (IC) and throughbranch circuit wiring. Approved for most wiring and ceiling types.

Features

One-piece aluminum can. Compact thermal plastic shroud on LI3 for higher wattages in IC installations. Galvanized steel rod frame

Factory-installed, captive bar hangers span 24" and feature builtin nailers and T-bar clips. Snap-lock rail clip locks fixture into place. J-box has built-in Romex clamps and a ground wire.

Suitable for ceilings up to 2" thick.

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed to U.S. and Canadian safety standards.



Shallow open trim

301 White 301A Clear diffuse Clear specular 301AZ Gold diffuse 301G 301GZ Gold specular 301BLZ Black specular



IC (L3) IC (LI3) 30 R20 50 R20 35 PAR20 50 PAR20

Non-IC (LI3) 50 PAR20 75 PAR16 40 PAR16

Deep baffle

3B2 Black 3B2W White



IC (LI3) 40 PAR16 30 R20 35 PAR20

Non-IC (L3)

50 PAR20 45 PAR16

Pinhole

White 3\$1



IC (L3, LI3) 35 R20 35 PAR20



Non-IC (L3) 50 R20 35 PAR20 45 PAR16

Deep, open trim

302 White Clear diffuse 302A Clear specular 302AZ Gold diffuse 302G 302GZ Gold specular 302BLZ Black specular



IC (LI3) 40 A19 40 PAR16 30 R20

60 PAR16 35 PAR20

Wallwash

3W1 White



IC (LI3) 30 R20 35 PAR20

Non-IC (L3)

50 PAR20

50 R20 40 PAR16

Non-IC (L3) 50 PAR20

IC (L3)

75 PAR30



3E1

IC (L3)

30 R20

35 PAR20

IC (L3) 35 PAR20 40 PAR16 75 PAR16



75 R20 50 PAR20

Shallow baffle

IC (LI3)

50 R20

50 PAR20

40 PAR16

Eyeball

White

Black

White

3B1

3B1W

Non-IC (L3)

50 PAR20

IC (LI3)

Non-IC (L3) 50 R20 50 PAR20

WETlite™

3H20 White Polished Chrome¹ 3H20PC 3H20CP Polished Copper¹

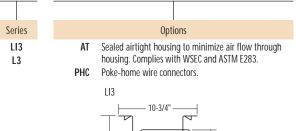


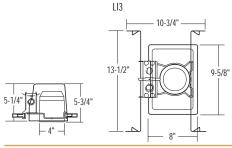


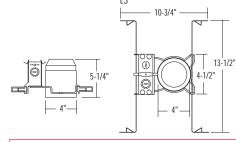
IC (LI3) 75 PAR30

(Ships with outdoor-rated 75W PAR30 lamp)

Ordering Information







www.lithonia.com, keywords: LI3 and L3

light**quick®XD** Example: L3

Express delivery products.

See page11 for details about LightQuick XD.

Description

L3 M6 3B1W M12

3E1 M6

3H20

NOTES:

1 Flange matches trim finish.

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

Example: L3R

IC/Non-IC Rated Full Trims — All trims are damp location listed. WETlite™ is listed for wet locations. Lamp types and maximum wattages are listed for each trim. White flange standard.

302

302A

302AZ

302G

302GZ

302BLZ

3W1

3H20

3H20PC 3H20CP

Deep, open trim

Clear diffuse

Clear specular

Gold diffuse

Gold specular

Black specular

Wallwash

White

White

Shallow open trim 301 White 301A Clear diffuse

301AZ Clear specular Gold diffuse 301G 301GZ Gold specular 301BLZ Black specular



30 R20 35 PAR20

Non-IC 50 PAR20 75 PAR16



Non-IC 40 A19 50 PAR20 60 PAR16

Non-IC

50 R20

35 PAR20

40 PAR16



30 R20 35 PAR20



Eyeball 3E1 White

Shallow baffle

Black

White







Non-IC 50 R20 35 PAR20 45 PAR16



3B1

3B1W



Non-IC 50 PAR20 75 PAR16

Recessed housing rated IC or Non-IC for remodel applications. Approved for direct burial in insulation (IC). Approved for most wiring and ceiling types

Intended Use

Features

One-piece aluminum self-flanged can provides maximum structural integrity.

J-box has built-in Romex clamps, ground wire and snap on/off door for easy wiring. Not for pulling wires.

One-piece, heavy-gauge, galvanized steel raceway arm/J-box fit easily through ceiling opening.

Suitable for ceilings up to 1/2" thick. Four (4) factory-installed remodel clips lock housing in place and automatically adjust for ceil-

Socket clips to trim to ensure proper and consistent lamp position.

Listings

UL Listed to U.S. and Canadian safety standards.

Deep baffle Black













3\$1



Non-IC 50 R20 35 PAR20 45 PAR16





WETlite™

Polished Chrome¹

Polished Copper¹

White

75 PAR30 (Ships with outdoor-rated 75W PAR30 lamp)



NOTES:

1 Flange matches trim finish.

IMPORTANT: For packaging information, see page 322. See specification sheets for

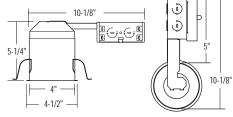
 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

Ordering Information





Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283. PHC Poke-home wire connectors.

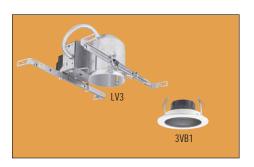


www.lithonia.com, keyword: L3R



310

Non-IC Rated Trims — These trims are for Non-IC applications when used with the LV3 housing. Lamp types and maximum wattages are listed for each trim. White flange standard, except as noted.



Intended Use

Recessed housing rated Non-IC for new construction applications. Thermally protected against improper contact with insulation and approved for through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

One-piece aluminum can for superior thermal performance for a wider range of trims. Galvanized steel rod frame and J-box. Factory-installed captive bar hangers span 24" and feature built-in nailers and T-bar clips.

Suitable for ceilings up to 2" thick in new construction only.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to ensure proper and consistent position.

Listings

UL Listed to U.S. and Canadian safety standards.



3V01AZ Clear specular 3V01GZ Gold specular 3V01BLZ Black specular

Baffle eyeball

Black

White

3VE2

3VE2W



50 MR16

Adjustable baffle

3VB1 Black 3VB1W White Open eyeball

3VE1 White







50 MR16

Eyelid wallwash

3VW1 White Adjustable wallwash

3VDW1W White





5"





50 MR16



White baffle 3VA5





- 2-5/8" -

Options

Poke-home wire connectors.

50 MR16

50 MR16

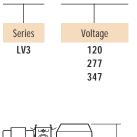
Pinhole

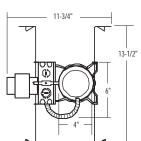
Black baffle 3VS1



50 MR16

Ordering Information





PHC

Example: LV3 120

NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



www.lithonia.com, keyword: LV3

IC Rated Trims — All trims are damp location listed. Lamp types and maximum wattages listed for each trim. These IC trims also can be used in Non-IC applications using lamps and wattages listed below. White flange standard.

Adjustable open cone

3V01AZ Clear specular 3V01GZ Gold specular 3V01BLZ Black specular





50 MR16

Adjustable baffle

3VB1 Black 3VB1W White



50 MR16



Open eyeball

White



3VE1

Adjustable wallwash

3VDW1W White



Baffle eyeball

3VE2 Black 3VE2W White





50 MR16









50 MR16

Adjustable slotted

White baffle 3VA5





50 MR16



3VS1 Black baffle



1-3/4"

3-5/8"-

5"

50 MR16

Intended Use

Recessed housing rated IC for new construction applications. Approved for direct burial in insulation and through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

Air-tight standard. Meets current energy codes.

Pre-painted steel inner housing and aluminum outer housing mounted to a rugged galvanized steel pan.

Captive bar hangers span 24" and feature built-in nailers and Tbar clips.

Suitable for ceilings up to 1-1/2" thick in new construction only. Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

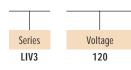
Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to ensure proper and consistent position.

Listings

CSA Certified to U.S. and Canadian safety standards.

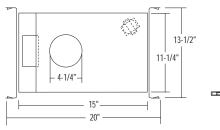
Ordering Information

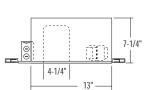


NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for complete trim selection.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.





Example: LIV3 120

www.lithonia.com, keyword: LIV3



312

LV3R

Non-IC Rated Trims - All trims are damp location listed. Lamp types and maximum wattages are listed for each trim. White flange



3V01AZ Clear specular 3V01GZ Gold specular 3V01BLZ Black specular

410

50 MR16

50 MR16



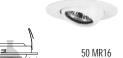
3VB1 Black 3VB1W White

Open eyeball 3VE1 White









50 MR16

Adjustable wallwash

Eyelid wallwash 3VW1 White





50 MR16



50 MR16



Intended Use

Recessed housing rated Non-IC for remodel applications. Thermally protected against improper contact with insulation. Approved for most wiring and ceiling types.

Features

One-piece aluminum can for maximum integrity and superior thermal performance.

Four (4) factory-installed clips automatically adjust for ceiling thickness up to 1/2" thick and lock housing in place with selfflange can.

Galvanized steel J-box has built-in Romex clamps and ground wire. Not suitable for pulling wires, Romex only.

Precision-wound stepdown transformer with class H insulation. For dimming control, use only dimmers specifically designed for use with magnetic (core and coil) transformers.

Consult factory when using fixtures on dimming systems.

Two-pin porcelain socket attaches to lamp. Lamp clips to trim to ensure proper and consistent position.

Listings

UL Listed to U.S. and Canadian safety standards.

Adjustable slotted

Baffle eyeball

Black

White

3VE2

3VE2W

White baffle



3VA5

50 MR16

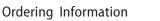
Pinhole Black baffle 3VS1

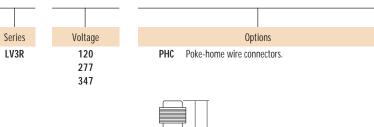
1-3/4"

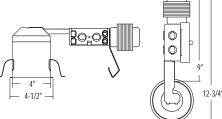
3-5/8"—

5"









🖊 LITHONIA LIGHTING

Example: LV3R 120

NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

5" Incandescent - EE1 is rated IC. All others are for Non-IC applications only. EL1 is wet location listed. All others are damp location

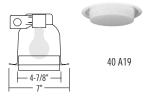
Open trim E01 White



Baffle EB1 Black EB1W White 40 A19 65 BR30

75 PAR30





5" Incandescent 3" Incandescent



Intended Use

Economy remodelers rated Non-IC for remodel applications.

Features

Deep-drawn aluminum trim/housing eliminates need for separate can and trim.

Galvanized steel mounting ring holds trim/housing securely in ceilings from 1/8" to 1" thick.

Thermally protected against improper contact with insulation or overlamping. EE1 is IC rated; all other units are Non-IC. EL1 is wet location listed; all other units are damp location only.

Snap-on splice box provided with ground wire and pry-outs for Romex clamp (by others). Approved for end-of-run only.

Listings

UL Listed to U.S. and Canadian safety standards.

Eyeball EE1 White

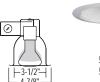


3" Incandescent – All models are for Non-IC applications and rated for damp locations only. White flange standard.

- 3-1/4" -

4-7/8"





50 R20 50 PAR20





E3E1



Eyeball

White

Ordering Information

50 PAR20

Series 5" Incandescent E Series

White open trim F01 EB1 Black baffle EB1W White baffle Drop opal lens EE1 White eyeball 3" Incandescent E Series

E301 White open trim E3B1 Black baffle E3B1W White haffle E3E1 White eyeball

NOTES:

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

Example: **EO1**

314

I 7XF

IC/Non-IC Rated Full Trims — All trims are damp location listed. Lensed trims are listed for wet locations. Lamp types and maximum wattages are listed for each trim. White flange standard.



601 White



Premium deep baffle, narrow flange

Standard deep baffle, narrow flange

Black

White1

Black

White

6B2

7B5

7B5W

6B2W

13DTT (IC) 18TRT (Non-IC)

13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)

13DTT (IC)



702 White¹ 702A Clear diffuse Clear specular 702AZ

Gold diffuse 702G 702GZ Gold specular 702BLZ Black specular

13DTT (IC)

Premium baffle, narrow flange Standard baffle, narrow flange

> Black 7B2 White1

Premium baffle, wide flange

White

6B1 Black

6B1W

7B2W





6B4

6B4W

Black

White

13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)



6W1 White

6-3/8"







13DTT (IC)

13DTT (IC) 18TRT (Non-IC)

Premium eyelid wallwash w/baffle

6W2 Black White 6W2W



13DTT (IC) 18DTT (Non-IC)



Intended Use

Recessed housing rated IC or Non-IC for new construction applications. Approved for direct burial in insulation (IC) and throughbranch circuit wiring. Approved for most wiring and ceiling types.

Features

Air-tight standard. Meets current energy codes.

All electromagnetic ballasts are high-power factor (HPF) except 13W DTT, 120V.

Available with multi-volt (MVOLT) electronic ballast, 120 through 277, with end of life protection.

Steel frame with aluminum can for superior thermal performance for a wider range of trims. Factory-installed captive bar hangers span 24" and feature

built-in nailers and T-bar clips. Two bar hanger locking screws holds fixture in position.

J-box features poke-home wire connectors, built-in Romex clamps and ground wire.

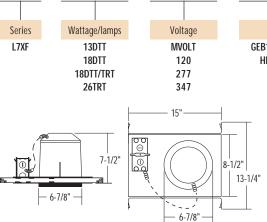
Socket bracket clips to trim to ensure proper and consistent lamp position.

Suitable for ceilings up to 1" thick.

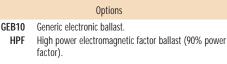
Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information



Example: L7XF 18DTT/TRT MVOLT



1 For plastic flange, add suffix PF to catalog number (Example: 7B2W PF).

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.



www.lithonia.com, keyword: L7XF

IC/Non-IC Rated Full Trims — All trims are damp location listed. Lensed trims are listed for wet locations. Lamp types and maximum wattages are listed for each trim. White flange standard.

Premium glass lens

6LD3 Drop opal, white splay 6LDB3 Drop opal, black baffle Flush white, white splay Flush white, black baffle 6LF3 6LFB3 6L4 Fresnel, white splay Fresnel, black baffle





Premium polycarbonate lens

13DTT (IC) 18DTT (Non-IC) 18TRT (Non-IC)

Drop opal¹ 6LD2 Drop prismatic¹ Flush opal¹ 6LF1 Flush prismatic¹ 6LF2





Standard polycarbonate lens

Drop opal Drop opal, plastic flange Drop prismatic, plastic 7LD1 PF 7LD2 PF







13DTT (IC 2-pin lamp only)

 $1\quad For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).$

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

316

L7XF RECF

IC/Non-IC Rated Full Trims — All trims are damp location listed. Lensed trims are listed for wet locations. Lamp types and maximum wattages are listed for each trim. White flange standard.



Intended Use

Recessed housing rated IC or Non-IC for new construction applications. Approved for direct burial in insulation (IC) and throughbranch wiring. Approved for most wiring and ceiling types.

Features

Steel frame with aluminum can for superior thermal performance for a wider range of trims.

Factory-installed, captive bar hangers span 24" and features built-in nailers and T-bar clips.

J-box has poke-home connectors and built-in Romex clamps. Socket clips to trim to ensure proper and consistent lamp position.

120V only electronic ballast standard (4-pin lamp) with end of life protection. Class P thermally protected against improper contact with insulation.

Listings

UL Listed to U.S. and Canadian safety standards. Approved for FCC grade B residential use.

Premium open trim, wide flange White

601





Premium deep baffle, narrow flange

Black 6B2 6B2W White





18DTT 26TRT

Premium eyelid wallwash w/baffle

6W2 Black 6W2W White





18DTT

26TRT

Premium open trim, narrow flange

602 White 602SA Clear diffuse Clear specular 602A Gold diffuse 602SG 602G Gold specular





Premium baffle, narrow flange

6B4 Black 6B4W White



18DTT 26TRT

Premium glass lens

Drop opal, white splay 6LD3 6LDB3 Drop opal, black baffle Flush white, white splay 6LF3 6LFB3 Flush white, black baffle Fresnel, white splay 6L4 6LB4 Fresnel, black baffle





18DTT 26TRT

Premium baffle, wide flange

6B1 Black White 6B1W





Premium eyelid wallwash

6W1 White





18DTT 26TRT

Premium polycarbonate lens

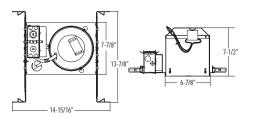
Drop opal1 6LD1 Drop prismatic¹ 6I D2 6LF1 Flush opal¹ Flush prismatic¹





Ordering Information

Series Wattage/lamps Voltage 13DTT/TRT 120 RECF Residential-grade electronic ballast 18DTT/TRT 26TRT



🖊 LITHONIA LIGHTING

Example: L7XF 26TRT 120 RECF

1 For plastic flange, add suffix PF to catalog number (Example: 6LD3 PF).

IMPORTANT: For packaging information, see page 322. See specification sheets for

 $Drawings\,are for dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches.

IC Rated Full Trims — All trims are damp location listed. Lensed trims are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.

Premium open trim, wide flange

601 White





Premium deep baffle, narrow flange

6B2 Black 6B2W White



18DTT 26TRT

Premium eyelid wallwash w/baffle

6W2 Black 6W2W White





Sloped ceiling (Directs light straight down from 2/12 (9°) to 12/12 (45°) ceiling pitch.)

18DTT 26TRT



602 White 602SA Clear diffuse 602A Clear specular 602SG Gold diffuse 602G Gold specular





Premium baffle, narrow flange

6B4 Black 6B4W White



18DTT 26TRT

Premium glass lens

6LD3 Drop opal, white splay 6LDB3 Drop opal, black baffle 6LF3 Flush white, white splay 6LFB3 Flush white, black baffle 6L4 Fresnel, white splay 6LB4 Fresnel, black baffle









Premium baffle, wide flange

6B1 Black 6B1W White





Premium eyelid wallwash

6W1 White





18DTT 26TRT

Premium polycarbonate lens

6LD1 Drop opal¹
6LD2 Drop prismatic¹
6LF1 Flush opal¹
6LF2 Flush prismatic¹



18DTT 26TRT

LI6F RECF



Intended Use

Recessed housing rated IC for new construction applications. Housing also can be used in Non-IC applications using lamps, wattages, and trims listed on page. Approved for direct burial in insulation (IC) and through-branch wiring. Approved for most wiring and ceiling types.

Features

Pre-painted steel housing with galvanized steel J-box. Factory-installed, captive bar hangers span 24" and features builtin nailers and T-bar clips.

J-box has poke-home connectors and built-in Romex clamps. Socket clips to trim to ensure proper and consistent lamp position.

120V only electronic ballast standard (4-pin lamp) with end of life protection. Class P thermally protected against improper contact with insulation.

Listings

UL Listed to U.S. and Canadian safety standards. Approved for FCC grade B residential use.

Open sloped ceiling

6S01 White





Baffled sloped ceiling

6SB1 Black 6SB1W White





Ordering Information

Series Wattage/lamps
LI6F 13DTT/TRT
18DTT/TRT
26TRT

Voltage

120 RECF Residential-grade electronic ballast 120 RECFADEZ Advance Mark10™ electronic dimming

electronic dimming ballast. Minimum dimming level 5%.

Example: LI6F 26TRT 120 RECFADEZ

Options

AT Sealed airtight housing to minimize air flow through housing. Complies with WSEC and ASTM E283.

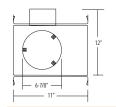
NOTES:

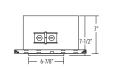
 $1\quad For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).$

IMPORTANT: For packaging information, see page 322. See specification sheets for complete trim selection.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches.

www.lithonia.com, keyword: LI6F RECF







318

CKP62

IC Rated Full Trims — All trims are damp location listed. Lensed trims are wet location listed. These IC trims also can be used in Non-IC applications using lamps and maximum wattages listed below. White flange standard.



Intended Use

Recessed housing rated IC for new construction applications. Housing also can be used in Non-IC applications using lamps, wattages and trims listed on page. Approved for direct burial in insulation and through-branch wiring. Approved for most wiring and ceiling types.

Features

Steel frame with aluminum can for superior thermal performance for a wider range of trims. 11' inter-connection cable provided with remote unit. Master connector provided with remote unit.

Factory-installed, captive bar hangers span 24" and features builtin nailers and T-bar clips.

J-box has poke-home connectors and built-in Romex clamps. Socket clips to trim to ensure proper and consistent lamp position. Standard 26TRT, 120V electronic ballast (4-pin lamp) with end of life protection.

 ${\it Class\ P\ thermally\ protected\ against\ improper\ contact\ with\ insulation}.$

Listings

UL Listed to U.S. and Canadian safety standards. Approved for FCC grade B residential use.

Premium open trim, wide flange

601 White





Premium deep baffle, narrow flange

6B2 Black 6B2W White





26TRT

Premium eyelid wallwash w/baffle

6W2 Black 6W2W White





26TRT

Premium open trim, narrow flange 602 White

602SA Clear diffuse 602A Clear specular 602SG Gold diffuse 602G Gold specular





Premium baffle, narrow flange

6B4 Black 6B4W White



26TRT

Premium glass lens

6LD3 Drop opal, white splay
6LDB3 Drop opal, black baffle
6LF3 Flush white, white splay
6LFB3 Flush white, black baffle
6L4 Fresnel, white splay
6LB4 Fresnel, black baffle



Example: CKP62



26TRT

Premium baffle, wide flange

6B1 Black 6B1W White





Premium eyelid wallwash

6W1 White





26TRT

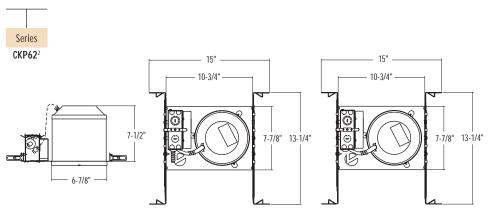
Premium polycarbonate lens

6LD1 Drop opal¹
6LD2 Drop prismatic¹
6LF1 Flush opal¹
6LF2 Flush prismatic¹





Ordering Information



NOTES:

- 1 For plastic flange, add suffix PF to catalog number (Example: 6LD1 PF).
- 2 26TRT, 120V electronic ballast only.

 ${\it IMPORTANT}. For packaging information, see page 322. See specification sheets for complete trim selection.$

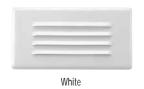
 $Drawings\,are for dimensional \,detail\,only\,and\,may not represent\,actual\,mechanical\,configuration.\,Dimensions\,are\,shown\,in\,inches.$



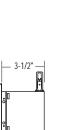
IC/Non-IC Rated — These steplights are damp location listed. Maximum wattage and lamps are listed.

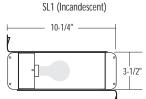
(blank) White BL Black Incandescent 25 A19 (IC) 40 A19 (Non-IC) Fluorescent 13DTT (IC) 9-1/2"

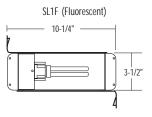
10-1/4"











Steplights

Damp Location



Intended Use

Recessed housing rated IC or Non-IC for new construction applications. For indoor use only.

Features

Approved for through-branch circuit wiring.

Galvanized steel housing and wiring compartment with a ground wire.

Bar hangers span 16" with recessed integral nailer tabs.

Powder-coated steel louver available in white or black finish. Butterfly springs hold louver securely in place.

Die-cut foam gasket seals steel louver against surface, preventing light leaks.

Encased-and-potted, normal power factor (NPF) electromagnetic ballast standard (Fluorescent only).

Listings

UL Listed to U.S. and Canadian safety standards.

Ordering Information

Series Wattage/Lamps Faceplate
Incandescent
SL1 N/A BL Black

Fluorescent
SL1F 9DTT
13DTT

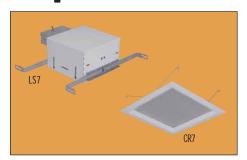
 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. \ Dimensions are shown in inches.$



Example: SL1F 9DTT BL

320

Lensed Squares



Intended Use

Recessed housing rated Non-IC for new construction applications. Thermally protected against improper contact with insulation and approved for through-branch circuit wiring. Approved for most wiring and ceiling types.

Features

Heavy-gauge pre-painted steel housing with galvanized steel J-box. Factory-installed, captive bar hangers span 24" and feature built-in nailers.

J-box has built-in Romex clamps and a ground wire.

Encased-and-potted, normal power factor (NPF) electromagnetic ballast standard (Fluorescent only).

Listings

Voltage

N/A

120

277

347

UL Listed to U.S. and Canadian safety standards.

Non-IC Rated Trims — These trims are for Non-IC applications only. Lamp type and wattage are determined by housing. Lensed trims are well location listed.

7" lensed squares

FR7 Fresnel

100 A19 2/9TT



FW7 Flat white

100 A19 2/9TT



DO7 Drop opal

100 A19 2/9TT



CR7 Corning C73

100 A19 2/9TT



FR9 Fresnel

150 A21 3/9TT 1/13TT 2/13TT



FW9 Flat white

150 A21 3/9TT 1/13TT 2/13TT



DO9 Drop opal

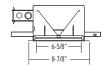
150 A21 3/9TT 1/13TT 2/13TT

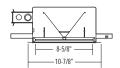


CR9 Corning C73

150 A21 3/9TT 1/13TT 2/13TT

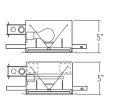


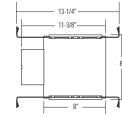




LS7, LSF7

LS9, LSF9





Ordering Information

Series Wattage/lamps
Incandescent N/A
LS7
LS9

Fluorescent

LSF7 2/9TT

LSF9 3/9TT

1/13TT

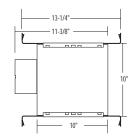
2/13TT

Example: LSF9 3/9TT 277

Options N/A

PF High power factor (90% power factor for 120V, 277V and 347V).

5.



Options

These options must be ordered with housing.

Electronic ballast

Generic electronic ballast. <10% THD (total GEB10 harmonic distortion). Requires four-pin lamp.

MVOLT Electronic multi-volt ballast capable of operating any line voltage from 120-277V, 50 or 60 Hz. Requires four-pin lamp.

Magnetic ballast

High power factor magnetic ballast, 90% power factor.

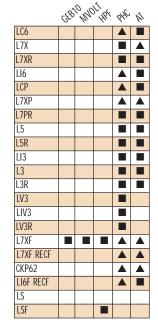
Miscellaneous

Sealed airtight housing to minimize air flow through housing. Complies with WSEC and certified per ASTM E283.

Factory-installed poke-home wire connectors. (12-20 AWG) Meets UL 486 standards for push-in terminals.

Options Compatibility

(These options must be ordered with housing.)



Option available

(blank) Option not available

Standard

Accessories

Accessories must be ordered separately.

Remodeler clips

Used to secure housings in ARC ceiling in remodel applications. Available in master pack of 24 clips.



Air-tight (vapor barrier) kit

Airtight gasketing seals housing to minimize air flow through housing. Complies with WSEC requirements. Available in master pack of 24 only.

Oversize trim rings

CTR6 8-3/4" (22.2cm) 0.D. 7-1/8" (18.1cm) I.D. (Use with 6, 7, C and F6 Series trims. Compatible with all 7-5/8" flanged trims only. Not compatible with CO1 or CB1.



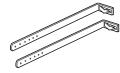
T-Bar mounting clips

LSMC Designed to lock bar hangers to T-bar. Set of 4



Bar hangers

Extended bar hangers used LBH for extreme off-center mounting in a 24" space. Set of two 22" bar hangers.



Accessories Compatibility

(These accessories must be ordered separately)

	ARC	SW	BH	MX	WK.	, WA	o KIK
LC6	П		П			П	
L7X							
L7XR							
LI6							
LCP							
L7XP							
L7PR							
L5							
L5R							
LI3							
L3							
L3R							
LV3							
LIV3							
LV3R							
L7XF							
L7XF RECF							
CKP62							
LI6F RECF							
LS							
LSF							

Option available (blank) Option not available

Ceiling thickness extender

Use when ceiling thickness is greater than 1-1/2". Maximum thickness 2" (5.1cm). Not compatible with VPE2, VMB4, 6SB1, 6S01, F6 Series or 7-Series trims.







Packaging

Because Lithonia's downlighting housings and trims are packaged and shipped as separate components (except steplights, which are shipped as complete fixtures), they usually are ordered as separate line items. However, housing and trim descriptions may be combined on a single line item.

Line	Qty.	Catalog No.				Line	Qty.	Catalog No.
1	 15	L5				1	15	L5 5B2
2	15	5B2				2	3	LV3 3VB1
3	3	LV3						
4	3	3VB1						
				compone	of ordering method, nts will be shipped			
		quantities. To packaging su	o over-rid ıffix. Spec	ack configuration le packaging opti cifying unit packag	mized packaging: s, if available, with unit packs are us mization, items may be ordered sping or ordering quantities that are pack configurations may result in h	ecifying th not even-	e "U" num-	
		quantities. To packaging su bered multip	o over-rid ıffix. Spec ıles of ava	ack configuration le packaging opti ifying unit packa iilable master/job	s, if available, with unit packs are us mization, items may be ordered sp ging or ordering quantities that are pack configurations may result in h	ecifying th not even-	e "U" num-	
		quantities. To packaging su	o over-rid offix. Spec oles of ava Oty.	ack configuration de packaging opti ifying unit packag illable master/job Catalog No.*	s, if available, with unit packs are us mization, items may be ordered sp ging or ordering quantities that are pack configurations may result in h	ecifying th not even- igher pricin	e "U" num-	
		quantities. To packaging su bered multip Line 1	o over-rid uffix. Spec ules of ava Oty. 12	ack configuration le packaging opti ifying unit packa iilable master/job Catalog No.* L5 M6	s, if available, with unit packs are us mization, items may be ordered sp ging or ordering quantities that are pack configurations may result in h Description 2 master cartons containing 6 housin	ecifying th not even- igher pricing gs each	e "U" num-	
		quantities. To packaging su bered multip	o over-rid offix. Spec oles of ava Oty.	ack configuration de packaging opti ifying unit packag illable master/job Catalog No.*	s, if available, with unit packs are us mization, items may be ordered spiging or ordering quantities that are pack configurations may result in h Description 2 master cartons containing 6 housing a unit cartons containing 1 housing a	ecifying th not even- igher pricin gs each each	e "U" num-	
Will St	hip As	quantities. To packaging subered multip	o over-rid uffix. Spec les of ava Oty. 12	cack configuration: de packaging opti cifying unit packagilable master/job Catalog No.* L5 M6	s, if available, with unit packs are us mization, items may be ordered spiging or ordering quantities that are pack configurations may result in h Description 2 master cartons containing 6 housin 3 unit cartons containing 1 housing 6 2 master cartons containing 6 trims e	ecifying th not even- igher pricing gs each each	e "U" num-	Will Ship As
Will Sh	hip As	quantities. To packaging subered multip	O over-rid uffix. Speciles of ava Oty. 12 3 12	cack configuration: de packaging opti cifying unit packagilable master/job Catalog No.* L5 M6 L5 U 5B2 M6	s, if available, with unit packs are us mization, items may be ordered spiging or ordering quantities that are pack configurations may result in h Description 2 master cartons containing 6 housing a unit cartons containing 1 housing a	ecifying th not even- igher pricing gs each each	e "U" num-	Will Ship As

- M followed by a number indicates a master pack of that number of items per shipping carton. Master-packed items <u>are</u> UPC-labeled and packaged appropriately for individual resale, but not for reshipment.
- R followed by a number indicates a master pack of that number of items per shipping carton.

 Resale-packed items <u>are</u> UPC-labeled and packaged appropriately for individual resale, but not for positionant.
- $\label{eq:Jacobian} \textbf{J} \quad \text{followed by a number indicates a job pack of that number of items per shipping carton.} \\ \text{Job packed items } \underbrace{\textit{arenot}}_{} \text{UPC-labeled for individual sale.}$

Determining the proper placement of recessed fixtures is simple when using the following steps. The guidelines in this section provide general parameters that can be applied in almost any application.

Step 1. Calculate the mounting height.

The mounting height is the distance from the fixture to the work surface. If the work surface is the floor, mounting height equals ceiling height. If the work surface is a countertop, mounting height is ceiling height minus countertop height.

Step 2. Choose the lamp.

Refer to the lamp performance data below to select the lamp that will provide the desired light level at the specified mounting height.

Step 3. Calculate appropriate fixture spacing.

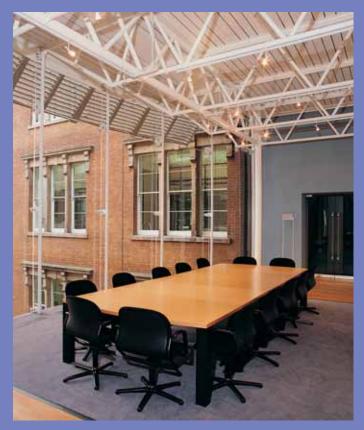
The chart below shows the footcandle (fc) levels and lighted diameter at various mounting heights. The lighted diameter becomes the maximum spacing to achieve uniform light levels and shows the area illuminated for accent lighting.

			5'		8'		10'		12'
Mounting Heig	ght	fc	Dia/ Spacing	fc	Dia/ Spacing	fc	Dia/ Spacing	fc	Dia/ Spacing
20 watts 20 watts BR30	Flood Flood	22 22	3.4 3.4	9 9	5.5 5.5	6 6	6.9 6.9	4 4	8.3 8.3
65 watts	Flood Spot	19 50	8.4 2.3	7 20	13.4 3.7	5 13	16.8 4.6	3 9	20.1 5.5
BR40 75 watts 100 watts	Flood Flood Spot	18 36 200	7.8 7.8 1.9	7 14 78	12.5 12.5 3.1	5 9 50	15.6 15.6 3.9	3 6 35	18.8 18.8 4.7
120 watts PAR20 Halogo	Flood Spot	52 280	7.8 1.9	20 109	12.5 3.1	13 70	15.6 3.9	9 49	18.8 4.7
35 watts	Narrow flood	36	2.7	14	4.3	9	5.4	6	6.4
50 watts	Narrow spot Flood Spot Narrow spot	131 56 128 248	0.8 2.7 1.4 0.8	51 22 50 97	1.3 4.3 2.2 1.3	33 14 32 62	1.6 5.4 2.8 1.6	23 10 22 43	1.9 6.4 3.4 1.9
PAR30 Halog									
50 watts 75 watts PAR38 Haloge	Wide flood Flood Narrow flood Very narrow flood Spot Narrow spot Flood Narrow flood Spot Narrow spot	20 50 76 108 260 396 88 136 420 620	5.5 3.6 2.7 2.1 1.1 0.8 3.6 2.7 1.1 0.8	8 20 30 42 102 155 34 53 164 242	8.9 5.8 4.3 3.4 1.7 1.3 5.8 4.3 1.7	5 13 19 27 65 99 22 34 105 155	11.1 7.3 5.4 4.3 2.1 1.6 7.3 5.4 2.1 1.6	3 9 13 19 45 69 15 24 73 108	13.3 8.7 6.4 5.1 2.5 1.9 8.7 6.4 2.5 1.9
45 watts	Narrow flood	72	2.7	28	4.3	18	5.4	13	6.4
60 watts	Spot Wide flood Narrow flood Narrow spot Narrow flood	180 50 146 740 100	1.3 5.0 2.6 0.9 2.7	70 20 57 289 39	2.1 8.0 4.1 1.4 4.3	45 13 37 185 25	2.6 10.0 5.2 1.7 5.4	31 9 25 128	3.2 12.0 6.2 2.1 6.4
90 watts	Spot Narrow spot Wide flood Narrow flood Spot	480 736 60 160 460	1.1 0.7 5.2 2.7 1.3	188 288 23 63 180	1.8 1.1 8.3 4.3 2.1	120 184 15 40 115	2.3 1.4 10.4 5.4 2.6	83 128 10 28 80	2.7 1.7 12.5 6.4 3.2
100 watts	Narrow spot Narrow flood Narrow spot Wide flood Narrow flood	900 220 1200 100 300	0.8 3.2 0.9 5.2 2.7	352 86 469 39 117	1.3 5.0 1.4 8.3 4.3	225 55 300 25 75	1.6 6.3 1.7 10.4 5.4	156 38 208 17 52	1.9 7.6 2.1 12.5 6.4
	Narrow spot	1500	0.8	586	1.3	375	1.6	260	1.9
PAR38 Halogo			2.4	0.5	F.0.		7.0		0.7
35 watts 50 watts	Flood Spot Narrow spot Wide flood Flood Narrow flood Very narrow flood	64 160 520 46 74 98 136	3.6 1.6 0.7 5.2 3.6 2.9 2.4	25 63 203 18 29 38 53	5.8 2.5 1.1 8.3 5.8 4.6 3.8	16 40 130 12 19 25 34	7.3 3.2 1.4 10.4 7.3 5.7 4.8	11 28 90 8 13 17 24	8.7 3.8 1.7 12.5 8.7 6.9 5.8
75 watts	Spot Flood Very narrow flood Spot	408 84 196 512	1.2 3.8 2.2 1.2	159 33 77 200	2.0 6.1 3.5 2.0	102 21 49 128	2.5 7.7 4.4 2.5	71 15 34 89	2.9 9.2 5.3 2.9
35 watts	Very narrow spot	920	0.4	359	0.7	230	0.9	160	1.0
50 watts	Narrow spot Narrow spot Narrow spot Narrow flood Flood	204 47 368 52 24	0.9 2.7 0.9 2.5x3.2 3.4	80 18 144 20 9	1.4 4.3 1.4 4.0x5.2 5.5	51 12 92 13 6	1.7 5.4 1.7 5.0x6.5 6.9	35 8 64 9	2.1 6.4 2.1 6.0x7.8 8.3

NOTES: The fixture spacing criteria from Step 3 are maximums. Fixture placement should be technically correct and aesthetically pleasing. Work with the spacing criteria and a drawing of the area being illuminated to determine actual fixture placement and number of fixtures needed. Remember, these are only guidelines. Exact fixture location may be impacted by joist spacing, furniture placement and work surface locations.



LITHONIA LIGHTING®



Track Lighting

Lithonia Track is a full-featured line of commercial track and display lighting available in one-circuit and twocircuit configurations.

The Lithonia Track family includes line and low voltage track heads for a wide range of popular lamps and also features a full selection of accessory filters and louvers.



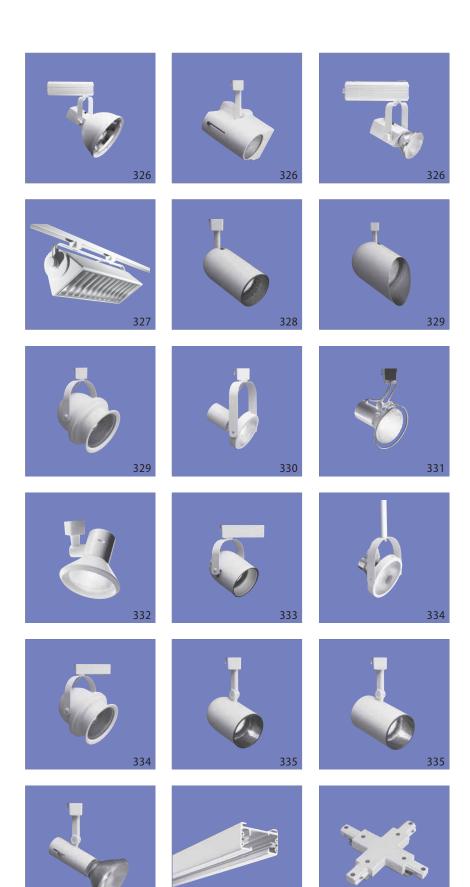


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LITHONIA TRACK

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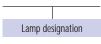
337

LTD

Ordering Information







Distribution	

Size

Voltage



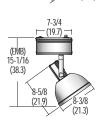




Premium Reflector, Color-Corrected Metal Halide







Head style	REFL	
Lamp designation	50M	
-	70M	
	100M	
	150M ¹	
Distribution	SP	Spot
	NFL	Narrow flood
	WFL	Wide flood
Size		N/A
Voltage		N/A
Ballast	HEB	Electronic
	EMB	Electromagnetic
Finish	WH	White
	DBL	Black
	DTS	Textured silver
Options	CM	For direct mount to j-box ²
	CGL	Clear tempered
		glass lens
	WLP	With lamp
Accessories:		Order separately
		N/A

Color-Corrected Metal Halide



9-3/4 (24.8)
6-3/4
(17.1) 4-1/4 (10.8)

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	(
4-1/4 (10.8)	!

12-1/2 (31.8)	
8-3/4 (22.2)	5-1/2 (14.0)
	<(14.0)

Head style	ССН	
Lamp designation	39M	
Distribution		N/A
Size	20	
Voltage	120	
Ballast	HEB	Electronic
	EMB	Electromagnetic
Finish	DWHG	Matte white,
		textured
	DBL	Black
Options	LPSP	Spot lamp
	LPFL	Flood lamp
Accessories:		Order separately
		N/A

Head style	ССН	
Lamp designation	39M	
	70M	
Distribution		N/A
Size	30	
Voltage	120	
Ballast	HEB	Electronic
Finish	DWHG	Matte white,
		textured
	DBL	Black
Options	LPSP	Spot lamp
	LPFL	Flood lamp
Accessories:		Order separately
		N/A

Premium Lampholder, Color-Corrected Metal Halide







Head style	LPHR	
Lamp designation	39M	
. 0	70M	
	100M	
	150M ¹	
Distribution		N/A
Size	20	
	30	
	38	
Voltage		N/A
Ballast	HEB	Electronic
	EMB	Electromagnetic
Finish	WH	White
	DBL	Black
	DTS	Textured silver
Options	CM	For direct mount
		to j-box ²
	LPSP	Spot lamp
	LPFL	Flood lamp
	LPWFL	Wide flood lamp ³
Accessories:		Order separatel

Example: LTD REFL 50M SP HEB WH

Accessories:		
Filter holder	LTWFH400	(color)4
	LTWFH500	(color)4
	LTWFH700	(color)4
Lens	F400	(color) ⁴
	F500	(color) ⁴
	F700	(color) ⁴
Louver	L400	(color) ⁴
	L500	(color) ⁴
	L700	(color)4

Lamp/Wattage & Accessories Compatability

Lamp/Wattage				Accessories			
Lamp	39W	70W	100W	150W	400	500	700
PAR20							
PAR30							
PAR38							

NOTES:

- 1 Available with EMB ballast only.
- $2\quad \hbox{CM option with EMB ballast uses 120/277V dual tap ballast; HEB ballast uses 120 through 277 multi-volt ballast.}$
- 3 Available for use with size 38 only.
- 4 Filter holder required when ordering lenses or louvers. For accessory ordering information, see pages 344-345.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



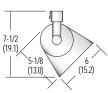
Ordering Information

Example: LTD CFWW 1/26DTT 12AP 120 DWHG

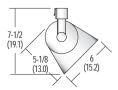


Wallwash, Compact Fluorescent





Head style	CFWW	
Lamp designation	1/26DTT	
	1/26TRT	
	1/32TRT	
	1/42TRT	
Housing size	12	12" nominal length
Louver style	(blank)	Open aperture
·	AP	Clear semi-diffuse, low-iridescent parabolic
	WHP	White
	BLP	Black
Voltage	120	
Finish	DWHG	Matte white, textured
	DBL	Black
	DTS	Textured silver
Options	WLP	35K lamp (shipped separately)
Accessories:		Order separately
		N/A



Head style	CFWW	
Lamp designation	2/26DTT	
	2/32TRT	
	2/42TRT	
Housing size	20	20" nominal length
Louver style	(blank)	Open aperture
	AP	Clear semi-diffuse,
		low-iridescent
		parabolic
	WHP	White
	BLP	Black
Voltage	120	
Finish	DWHG	Matte white,
		textured
	DBL	Black
	DTS	Textured silver
Options	WLP	35K lamp (shipped
		separately)
Accessories:		Order separately
		N/A

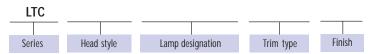
 $Drawings\ are\ for\ dimensional\ detail\ only\ and\ may\ not\ represent\ actual\ mechanical\ configuration.\ Dimensions\ are\ shown\ in\ inches\ (centimeters)\ unless\ otherwise\ noted.$



Roundback and Flatback Cylinders

Ordering Information

Example: LTC RNDB PAR20 MB WH



Louver Barn door

Roundback, Line Voltage



Head style	RNDB	
Lamp designation	PAR20	(50W max.) ¹
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH500 (color)2	
Long	EEOO (color)?	

L500 (color)2

LTBD500 (color)2

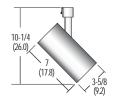
Flatback, Line Voltage

Head style



Lamp designation	PAR20	(50W max.) ¹
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH500 (color)2	

FLTB



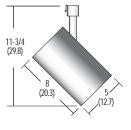
	DDL	DIACK
Accessories:		Order separately
Filter holder	LTFH500 (color) ²	
Lens	F500 (color) ²	
Louver	L500 (color) ²	
Barn door	LTBD500 (color)2	



(17.8)

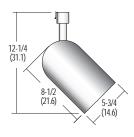
Head style Lamp designation	RNDB Par30	(75W max.) ³
Trim type	MB	Black baffle
21.	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTEH700 (color)2	

Accessories:	
Filter holder	LTFH700 (color) ²
Lens	F700 (color)2
Louver	L700 (color) ²
Barn door	LTBD700 (color) ²

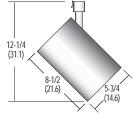


Head style	FLTB	
Lamp designation	PAR30	(75W max.) ³
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately

Accessories:	
Filter holder	LTFH700 (color) ²
Lens	F700 (color) ²
Louver	L700 (color)2
Barn door	LTBD700 (color) ²



Head style	RNDB	
Lamp designation	PAR38	(Q250W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH800 (color) ²	_
Lens	F800 (color) ²	
Louver	L800 (color) ²	
Barn door	LTBD800 (color) ²	



Head style	FLTB	
Lamp designation	PAR38	(Q250W max.)
Trim type	MB	Black baffle
· ·	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH800 (color) ²	
Lens	F800 (color)2	
Louver	L800 (color)2	
Barn door	LTBD800 (color) ²	

NOTES:

- 1 PAR16 (60W max.) compatible.
- 2 Filter holder or barn door required when ordering lens or louvers. For accessory ordering information, see pages 344-345.

3 Socket extender must be used with short-neck lamps. Order TP30 SE (shipped separately).

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,configuration.\,Dimensions\,are\,shown\,in$ inches (centimeters) unless otherwise noted.



LTC

Ordering Information

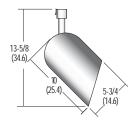
Example: LTC WWRD PAR38 WH



Roundback Wallwash, Line Voltage



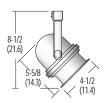
Head style	WWRD	
Lamp designation	PAR38	(Q250W max.)
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A



Bellspot, Line Voltage



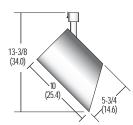
Head style	BLSP	
Lamp designation	PAR20	(50W max.)1
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A

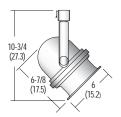


Flatback Wallwash, Line Voltage

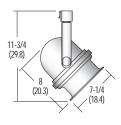


Head style	WWFT	
Lamp designation	PAR38	(Q250W max.)
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A





Head style Lamp designation Finish	BLSP Par30 Wh DBL	(75W max.) White Black
Accessories:		Order separately
		N/A



Head style	BLSP	
Lamp designation	PAR38	(Q250W max.)
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A

NOTES:

1 PAR16 (60W max.) compatible.

 $D rawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches (centimeters)} unless otherwise noted.$

LITHONIA TRACK

Gimbal Rings

Ordering Information

Example: LTC GMBR PAR20 WH

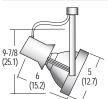


Lamp designation	Stem length	Finish

Gimbal Lampholder, Line Voltage

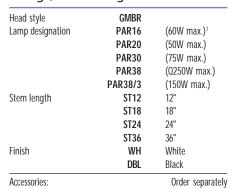


Head style	GLPR	(front loading gimbal ring)
Lamp designation Stem length	PAR38	(Q250W max.) N/A
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A



Stem-Mounted Gimbal Rings, Line Voltage





Lamp designation specific.2

Consult factory for dimensions.

Gimbal Rings, Line Voltage



Head style	GMBR	
Lamp designation	PAR16	(60W max.)1
1 3	PAR20	(50W max.)
Stem length		N/A
Finish	WH	White
	DBL	Black
Accessories:		Order separately



PAR20

/4 9)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2	2-1/ (5.9	4	
_	_,[

	DDL	DIACK
Accessories:		Order separately
Filter holder	LTGCS ³	
Lens	F400 (color)2	
Louver	L400 (color)2	
Barn door	LTGBD400 (color) ²	

Gimbal Rings, Line Voltage



Head style	GMBR	
Lamp designation	PAR30	(75W max.)
Stem length		N/A
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTGCS ³	
Lens	F500 (color) ²	
Louver	L500 (color) ²	
Barn door	LTGBD500 (color) ²	



1 (12.4)	0.2)
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10 (25.4)	

Head style	GMBI	R
Lamp designation	PAR3	· -
Stem length		N/A
Finish	WI	H White
	DBI	L Black
Accessories:		Order separately
Filter holder	LTGCS	3
Lens	F700 (color)	2
Louver	L700 (color)	2
Barn door	LTGBD701 (color)	2



Head style Lamp designation Stem length Finish	GMBR Par38/3 Wh DBL	(150W max.) N/A White Black
Accessories:		Order separately
Filter holder	LTGCS ³	
Lens	F700 (color)2	
Louver	L700 (color)2	
Barn door	LTGBD701 (color) ²	

- 1 Not compatible with Philips PAR16 lamp. Accessories not available.
- 2 Filter holder or barndoor required when ordering lenses or louvers. For accessory ordering information, see pages 344-345.
- 3 Available only in black. Accommodates up to two lenses or louvers.

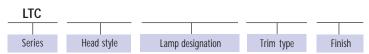
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted



LTC

Ordering Information

Example: LTC STPC PAR20 MB WH



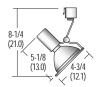
Wireform, Line Voltage



7-7/8 (20.0)	
4-1/2 (11.4) 3-5/	\ 16
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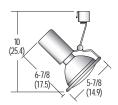
Head style	WRFM	
Lamp designation	PAR20	(50W max.)1
Trim type		N/A
Finish	WH	White
	DBL	Black
	DTS	Textured silver

A		0
Accessories:		Order separately
Filter holder	LTWFH400 (color) ²	
Lens	F400 (color) ²	
Louver	L400 (color) ²	
Barn door	LTWBD400 (color) ²	



Head style	WRFM	
Lamp designation	PAR30	(75W max.) ³
Trim type		N/A
Finish	WH	White
	DBL	Black
	DTS	Textured silver

Accessories:		Order separately
Filter holder	LTWFH500 (color) ²	
Lens	F500 (color) ²	
Louver	L500 (color) ²	
Barn door	LTWBD500 (color) ²	



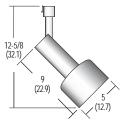
Head style	WRFM	
Lamp designation	PAR38	(Q250W max.)
Trim type		N/A
Finish	WH	White
	DBL	Black
	DTS	Textured silver

Accessories:	
Filter holder	LTWFH700 (color) ²
Lens	F700 (color) ²
Louver	L700 (color)2
Barn door	LTWBD700 (color) ²

Step Cylinders, Line Voltage



Head style	STPC	
Lamp designation	PAR20	(50W max.)1
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH500 (color) ²	
Lens	F500 (color) ²	
Louver	L500 (color)2	
Barn door	LTBD500 (color)2	

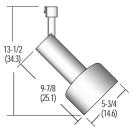


Head style Lamp designation	STPC PAR30	(75W max.) ³
Trim type	MB	Black baffle
51	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH700 (color) ²	
Lens	F700 (color)2	
Louver	L700 (color)2	

LTBD700 (color)²

Barn door

Head style



AR38 (Q250W max.)
MB Black baffle
WB White baffle
WH White
DBL Black
Order separately
color) ²
color) ²
color) ²
color) ²
(((

STPC

NOTES

- 1 PAR16 (60W max.) compatible.
- $2\quad \text{Filter holder or barn door required when ordering lenses or louvers.} For accessory ordering information, see pages 344-345.$

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches (centimeters)} unless otherwise noted.$



Order separately

PAR Shade and Lampholder

LTC

Ordering Information



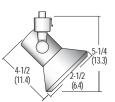
Example: LTC PRSD PAR30 WH



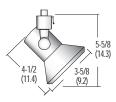
PAR Shade, Line Voltage



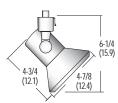
Head style Lamp designation Finish	PRSD Par16/38 ¹ Wh DBL	White Black
Accessories:		Order separately
		N/A



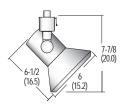
Shown with PAR16 lamp dimensions.



Head style Lamp designation Finish	PRSD PAR20 WH DBL	(50W max.) White Black
Accessories:		Order separately
Filter holder	LTWFH400 (color) ²	
Lens	F400 (color) ²	
Louver	L400 (color) ²	



Head style	PRSD	
Lamp designation	on PAR30	(75W max.) ³
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTWFH500 (color) ²	
Lens	F500 (color) ²	
Louver	L500 (color) ²	



Head style	PK2D	
Lamp designation	PAR38	(150W max.)
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTWFH700 (color) ²	
Lens	F700 (color) ²	
Louver	L700 (color) ²	

Lampholder, Line Voltage



Head style Lamp designation Finish	LPHR PAR38 ⁴ Wh	White
1 111311	DBL	Black
Accessories:		Order separately
		N/A



Shown with PAR38 lamp dimensions.

Lampholder accessories		
are lamp-type specific		
PAR16, PAR20	N/A	
PAR30		
Lens	F400 (color) ²	
Louver L400 (color) ²		
Hood H400 (color) ⁵		
PAR38		
Lens F600 (color) ²		
Louver L600 (color) ²		
Hood H600 (color) ⁵		

MOTEC

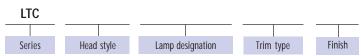
- 1 Maximumwattage PAR16 (60W), PAR20 (50W), PAR30 (75W) and PAR38 (150W).
- $2 \quad \text{Filter holder or hood required when ordering lenses or louvers. For accessory ordering information, see pages 344-345.} \\$
- 3 If using filter holder, use long-neck PAR30 lamp. Without filter holder, short-neck PAR30 lamp is recommended.
- 4 PAR38 lamp designation is used for all lamp types. Maximum wattage PAR16 (60W), PAR20 (50W), PAR30 (75W) and PAR38 (0250W).
- $5\quad Hood required when ordering lenses or louvers. For accessory ordering information, see pages 344-345.$

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



LTC

Ordering Information Example: LTC FLTB PAR36 MB WH



Mini Roundback, Low Voltage (Electronic Transformer)



8 (20.3)	
	4-7/8 (12.4) 3-5/8 (9.2)
	Voke-Mounted

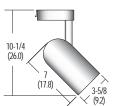
Head style	RNDY	
Lamp designation	MR16	(50W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separatel
Filter holder	LTFH500 (color) ¹	
Lens	F200 (color) ^{1,2}	
	F500 (color) ¹	
Louver	L200 (color) ^{1,2}	
	1500 (color)1	

LTBD500 (color)1

$Roundback, Low \ Voltage \ ({\it Electronic Transformer})$

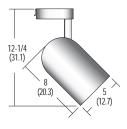
Barn door





Head style	RNDB	
Lamp designation	MR16/50	(50W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	black

Accessories:		Order separately
Filter holder	LTFH500 (color) ¹	
Lens	F200 (color) ^{1,2}	
	F500 (color) ¹	
Louver	L200 (color) ^{1,2}	
	L500 (color) ¹	
Barn door	LTBD500 (color) ¹	



Lamp designation	MR16/75	(75W max.)
	PAR36	(75W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH700 (color) ¹	
Lens	F200 (color)1	
	F700 (color)1	
Louver	L200 (color) ¹	
	L700 (color)1	
Rarn door	LTRD700 (color)1	

RNDB

NOTES:

 $1\quad \text{Filter holder or barn door required when ordering lenses or lowers. For accessory ordering information, see pages 344-345.}$

Head style

2 Available only with MR16 lamp designation.

 $D rawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\bf inches (centimeters)} unless otherwise noted.$

Mini Flatback, Low Voltage (Electronic Transformer)



	_
8	A Fi Le
8 (20.3)	L
4-7/8 (12.4) 3-5/8 (9.2)	В
Yoke-Mounted	

Head style Lamp designation	FLTY MR16	(50W max.)
Trim type	MB	Black baffle
3.	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTFH500 (color) ¹	
Lens	F200 (color) ¹	
	F500 (color) ¹	
Louver	F200 (color) ¹	
	L500 (color) ¹	
Barn door	LTBD500 (color) ¹	

Flatback, Low Voltage (Electronic Transformer)



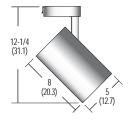
10-1/4 (26.0)

(17.8)

Finish
Accessories:
Filter holder
Lens
Louver

Head style	FLTB	
Lamp designation	MR16/50	(50W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately

Accessories:		0
Filter holder	LTFH500 (color) ¹	
Lens	F200 (color) ¹	
	F500 (color) ¹	
Louver	L200 (color) ¹	
	L500 (color) ¹	
Barn door	LTBD500 (color)1	



Head style	FLTB	
Lamp designation	MR16/75	(75W max.)
	PAR36	(75W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black

	DDL	Diack
Accessories:		Order separately
Filter holder	LTFH700 (color) ¹	
Lens	F200 (color) ¹	
	F700 (color)1	
Louver	L200 (color) ¹	
	L700 (color) ¹	
Barn door	LTBD700 (color) ¹	



Gimbal Rings and Bellspot – Low Voltage

LTC

Ordering Information Example: LTC GMBR PAR36 WH

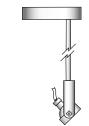
LTC					
Series	Head style	Lamp designation	Shielding	Stem length	Finish

Stem-Mounted Gimbal Rings, Low Voltage

(Electronic Transformer)



Finish	WH DBL	White Black
Finish		
	ST36	36"
	ST24	24"
	ST18	18"
Stem length	ST12	12"
	BMDR	Beam director ¹
Shielding	(blank)	0pen
	PAR36	(75W max.)
Lamp designation	MR16	(75W max.)
Head style	GMBR	



Consult factory for dimensions.

	DBL	Black
Accessories:		Order separately
Filter holder	LTGCS ²	
Lens	F200 (color) ^{1,3}	
	F700 (color)3	
Louver	L200 (color) ^{1,3}	
	L700 (color) ³	
Barn door	LTGBD700 (color)3	

Gimbal Rings, Low Voltage (Electronic Transformer)



Head style	GMBR	
Lamp designation	MR16	(75W max.)
Shielding		N/A
Stem length		N/A
Finish	WH	White
	DBL	Black



	DDL	DIACK
Accessories:		Order separately
Lens	F200 (color) ^{1,3}	
Louver	L200 (color) ^{1,3}	
Barn door	LTGBD200 (color)3	

NOTES:

- $1\quad A vailable \,only \,with \,MR16\,lamp\,designation.$
- 2 Available only in black. Available only with PAR36 lamp designation. Accomodates up to two lens or louvers.
- $3\quad \text{Filter holder or barn door required when ordering lenses or louvers. For accessory ordering information, see pages 344-345.}$
- 4 Not available with BMDR.

 $Drawings\ are\ for\ dimensional\ detail\ only\ and\ may\ not\ represent\ actual\ mechanical\ configuration.\ Dimensions\ are\ shown\ in\ inches\ (centimeters)\ unless\ otherwise\ noted.$

Gimbal Rings, Low Voltage (Electronic Transformer)



· · · · · · · · · · · · · · · · · · ·	
4	
(15.2)	
(15.2)	
3-1/8	
3-1/8 (7.8) 1-3/4	
(AA)	

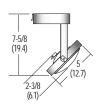
Head style	GMBR	
Lamp designation	MR16	(75W max.)
Shielding	BMDR	Beam director ¹
Stem length		N/A
Finish	WH	White
	DBL	Black
Accessories:		Order separatel

_ens	F200 (color) ^{1,3}
Louver	L200 (color) ^{1,3}



rieau style	GIVIDA	
Lamp designation	PAR36	(75W max.)
Shielding		N/A
Stem length		N/A
Finish	WH	White
	DBL	Black
Accessories:		Order separately
Filter holder	LTGCS ²	
Lens	F700 (color)3	
Louver	L700 (color)3	

LTGBD700 (color)3

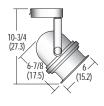


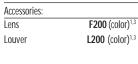
Bellspot, Low Voltage (Electronic Transformer)

Barn door



Head style	BLSP	
Lamp designation	MR16	(50W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately









Ordering Information Example: LTE RNDB PAR20 MB WH



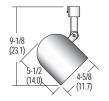
Roundback, Line Voltage



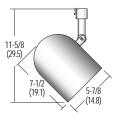
Head style Lamp designation	RNDB Par20	(50W max.) ¹
Trim type	MB	Black baffle
31	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A



Head style	RNDB	



Head style	KNDB	
Lamp designation	PAR30	(75W max.)
Trim type	MB	Black baffle
**	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A

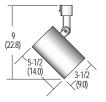


Head style	RNDB	
Lamp designation	PAR38	(150W max.)
Trim type	MB	Black baffle
· ·	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		NI/A

Flatback, Line Voltage

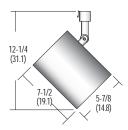


Head style	FLTB	
Lamp designation	PAR20	(50W max.) ¹
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/Δ



9-3/4 (24.7)

5-1/2 4-5/8	Head style Lamp designation Trim type Finish	FLTB PAR30 MB WB WH DBL	(75W max.) Black baffle White baffle White Black
(14.0) 4-5/8 (11.7)	Accessories:		Order separately
× < ()			N/A



Head style Lamp designation Trim type	FLTB Par38 Mb	(150W max.) Black baffle
Finish	WB WH DBL	White baffle White Black
Accessories:		Order separately
		N/A

NOTES

1 PAR16 (60W max.) compatible.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} ({\it centimeters}) unless otherwise noted.$



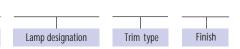
Step Cylinders and Lampholders

LTE

Ordering Information

Example: LTE STPC PAR20 MB WH



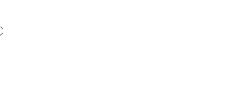


Step Cylinder, Line Voltage



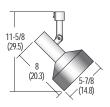
Head style	STPC		
Lamp designation	PAR20	(50W max.)1	
Trim type	MB	Black baffle	
	WB	White baffle	
Finish	WH	White	
	DBL	Black	
Accessories:			Order separately







Head style	STPC	
Lamp designation	PAR30	(75W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A

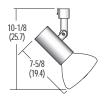


Head style	STPC	
Lamp designation	PAR38	(150W max.)
Trim type	MB	Black baffle
	WB	White baffle
Finish	WH	White
	DBL	Black
Accessories:		Order separately
		N/A

Lampholder, Line Voltage



Head style Lamp designation	LPHR PAR38 ²		
Trim type		N/A	
Finish	WH	White	
	DBL	Black	
Accessories:			Order separately
		N/A	



Shown with PAR38 lamp dimensions.

NOTES:

- 1 PAR16 (60W max.) compatible.
- 2 PAR38 lamp designation is used for all lamp types (PAR16 (60W max.), PAR20 (50W max.), PAR30 (75W max.) and PAR38 (150W max).

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} ({\it centimeters}) unless otherwise noted.$



Intended Use

One- or two-circuit track sections for use with Lithonia Lighting track fixtures. Common applications include retail, grocery, museums or any application requiring accent illumination and the versatility of track lighting systems.

Features

Low-profile, heavy-gauge, extruded aluminum channel for maximum rigidity, available in white, black or aluminum finishes.

Track sections and connectors are designed to consider dimensional restrictions of T-bar grid ceilings.

Track sections can be surface- or pendant-mounted individually or joined to form continuous rows.

Electrical System – *One circuit:* One 20-amp circuit, #12 gauge copper conductors are co-extruded in PVC insulator. *Two circuit:* Two 20-amp circuits, #12 gauge copper conductors are co-extruded in PVC insulator. Two-circuit track shares one neutral.

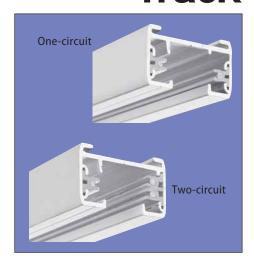
Visible polarity line indicates proper electrical connection and mechanical alignment.

Live end or feed connector must be used to power track

Listings

 $UL\ Listed\ to\ U.S.\ and\ Canadian\ safety\ standards.$

Track



One-Circuit Track

Ordering Information

Series

- LT2 2-foot section. Actual length 20" (50.8 cm)
 - 4-foot section. Actual length 44" (111.8 cm)
- LT8 8-foot section. Actual length 92" (233.7 cm)
- LT12 12-foot section. Actual length 140" (355.6 cm)

Finish

WH White

DBL Black

Example: LT2 WH1

. Natural aluminum²

Two-Circuit Track

Ordering Information

Series

L2T4 4-foot section. Actual length 44" (111.8 cm)

L2T8 8-foot section. Actual length 92" (233.7 cm)
L2T12 12-foot section. Actual length 140" (355.6 cm)

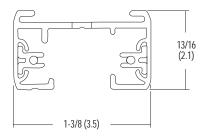
Finish

Example: L2T4 WH1

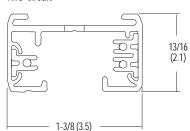
WH White
DBL Black
AL Natural

aluminum²

One-Circuit



Two-Circuit



STANDARD PACKAGING

To order, use single master catalog number. Example: (13) LT4 DBL

Track sections ship as unit (U) packaging.

(Qty 13) LT4 DBL U (13 cartons of 1 track section)

NOTES:

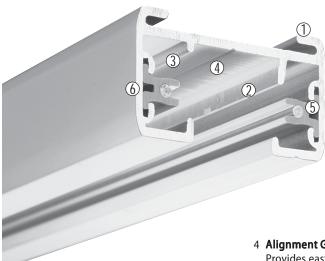
- 1 Dead ends shipped with live ends.
- 2 Natural aluminum (AL) matches track head textured silver (DTS).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Track Configurations

Lithonia Lighting Track is constructed of low-profile, heavy-gauge, extruded aluminum for maximum rigidity. Track sections and connections are designed with the dimensional restrictions of T-bar grid ceilings in mind.



1 Suspension Hardware Rail

Allows easy twist-and-lock hardware installation. Available for stem and grid ceiling mounting configurations.

2 Milled Grounding Bar

Provides maximum ground continuity between fixtures and power distribution system.

3 Circuit Key

Prevents accidental interchange of one-and two-circuit accessories.



NOTES:

1 Natural aluminum (AL) matches track head textured silver (DTS).

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may not represent\, actual\, mechanical$ configuration. Dimensions are shown in inches (centimeters) unless otherwise

4 Alignment Groove

Provides easy centering for drilling of additional mounting holes or use of selfdrilling screws.

5 Bus Retention Crimp

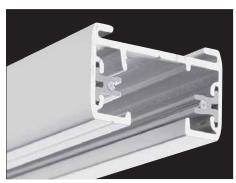
The continuous design of the bus bar wireway retention crimp allows easy field cutting. Track sections can be cut without feeding bus bar wireway retention.

6 Extruded Channel

High quality, rugged, heavy-gauge extruded aluminum profile.

7 **Pre-drilled Mounting Holes**

Provide easy mounting capability.



One-Circuit

Lengths: 2',4',8',12'

White (WH), Black (DBL), Natural aluminum (AL)1

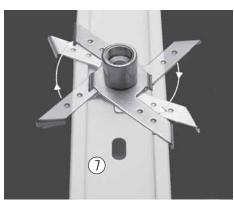
Example: LT2 WH **Ordering Information**

	Description	Actual Length
LT2 (color)	2' track section	20 (50.8)
LT4 (color)	4' track section	44 (111.8)
LT8 (color)	8' track section	92 (233.7)
LT12 (color)	12' track section	140 (355.6)



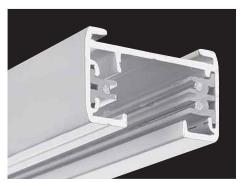
Circuit Adaptor

Adaptor design allows for easy circuit selection. Shipped in default one-circuit configuration.



Twist and Lock Mounting Clips

Allow easy installation on T-bar and threaded



Two-Circuit

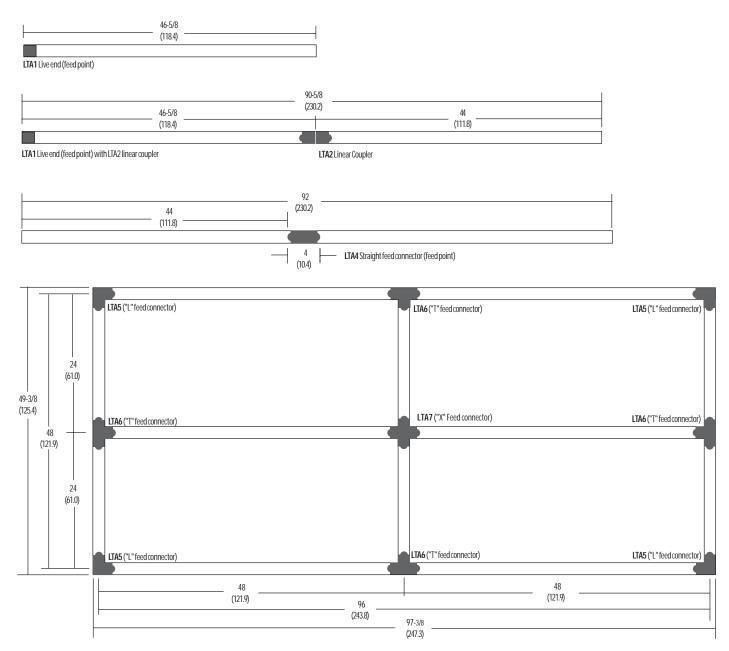
Lengths: 4',8',12'

White (WH), Black (DBL), Natural aluminum (AL)

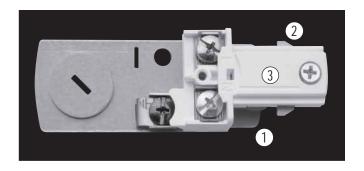
Ordering Information Example: L2T4 WH

	Description	Actual Length
L2T4 (color)	4' track section	44 (1118)
L2T8 (color)	8' track section	92 (233.7)
L2T12 (color)	12' track section	140 (355.6)





One-circuit configurations shown.



Feed Connectors

Provides a secure attachment to track hardware rail. A unique backplate feature provides additional strength by mechanically integrating track and connectors into one continuous system.

- 1 Heavy-gauge steel backplate for secure mechanical integration to track sticks.
- 2 Brass bus bar contacts.
- 3 Durable GE Lexan*housing material. Soft finish eliminates fingerprint images.

Track Connectors and Accessories

A complete selection of one-circuit and two-circuit track connectors, accessories and pendant and T-bar accessories is available for the Lithonia track system. Most components are available in white and black finish. All feature embossed polarity lines to indicate correct insertion position and electrical connection.

Live End Feed

Feed Connector used to start a run. Includes one dead end. Available in White (WH) and Black (DBL).

LTA1 (color) One-circuit
L2TA1 (color) Two-circuit



Linear Coupler

Joins two track sections in a straight run. Not a feed point. Does not add to length. Available in White (WH) and Black (DBL).

LTA2 (color) One-circuit L2TA2 (color) Two-circuit



Floating Feed

Permits track to be wired anywhere along the track length. Includes two dead ends. Available in White (WH) and Black (DBL).

LTA3 (color) One-circuit
L2TA3 (color) Two-circuit



Straight Feed Connector

Joins two track sections in a straight run. Includes two dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA4 (color) One-circuit

L2TA4 (color) Two-circuit. Includes adjustable L feed con-

nector cover



Adjustable L Connector*

Joins two track sections at 90° angles. Includes two dead ends. May be used as a feed. For two-circuit, use L2TA4 connector. Available in White (WH) and Black (DBL).

LTA5 (color) One-circuit
*For two-circuit, use L2TA4 connector



T Connecto

Joins three track sections at 90° angles. Includes three dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA6 (color) One-circuit

L2TA6R (color) Two-circuit, right only

L2TA6L (color) Two-circuit, left only





X Connector

Joins four track sections at 90° angles. Includes four dead ends. May be used as a feed. Available in White (WH) and Black (DBL).

LTA7 (color) One-circuit
L2TA7 (color) Two-circuit



Flexible Connector

Joins two track sections. Permits vertical or horizontal bends up to 90°. Not a feed point. Available in White (WH) and Black (DBL).

LTA8 (color) One-circuit
L2TA8 (color) Two-circuit



Surface Conduit Feed

Permits track to be connected to conduit. (1/2" trade size conduit fitting). Includes one dead end. Available in White (WH) and Black (DBL).

LTA9 (color) One-circuit
L2TA9 (color) Two-circuit



Conduit Continuation Kit

Left and right conduit connector. Allow continuous run around obstructions. Available in White (WH) and Black (DBL).

LTA91 (color) One-circuit
L2TA91 (color) Two-circuit



Concealed Feed

Permits direct conduit wiring from above track without outlet box. Use with LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L and L2TA7

LTA11



Replacement Dead End

Terminates straight run. Replacement only. Available in White (WH) and Black (DBL).

LTA12 (color) Set of 10



Outlet Box Cover

Used at any feed connection point (LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L and L2TA7). Available in White (WH) and Black (DBI)

LTA13 (color)



Track Reinforcement Plate

Slides between track lengths to provide extra strength when pendant mounting.

LTA33



Track Connectors and Accessories

Extension Wand

Mounts to track, drops head 12", 18", 24" or 36". Available in White (WH) and Black (DBL). Cannot be field cut.

LTA31 xx (color) (Specify 12, 18, 24 or 36)



Track Mounting Clips

Optional track mounting method. Set of three. Available in White (WH) and Black (DBL).

LTA20 (color)



T-Bar Feed Kit

Outlet box for grid ceilings. For use with LTA1, LTA4, LTA5, LTA6, LTA7, L2TA1, L2TA4, L2TA6R, L2TA6L and L2TA7. Includes outlet box, cover and mounting hardware. Available in White (WH) and Black (DBL).

LTAT1 (color)



T-Bar Earthquake Clips

Provides added structural support for 1"T-bar. Set of three.

LTAT32



Stem Kit

Canopy and stem for use on hard ceilings. Requires stem feed kit (LTAP2) to be used as a feed. Available in 12,"18,"24,"36" or 48." Available in White (WH) and Black (DBL). Can be field cut.

LTAP1 xx (color)¹ (Specify 12, 18, 24, 36 or 48)



Threaded Rod Mounting Clips

Allows support of the track by 1/4" threaded rod. Set of three. Available in White (**WH**) and Black (**DBL**).

LTA30 (color)



T-Bar Mounting Clips

Offsets track from T-bar. Set of three. Available in White (WH) and Black (DBL).

LTAT20 (color) For 1"T-bar, 1/4" drop.
LTAT21 (color) For 1"T-bar, 1/2" drop.
LTAT22 (color) For 1/2"T-bar, 1/4" drop.
LTAT23 (color) For 1/2"T-bar, 1/2" drop.



Stem Feed Kit

For use with stem kit. Required for track to be wired through stem. One required for each live feed. Available in White (WH) and Black (DBL).

LTAP2 (color)



T-Bar Stem Ki

Canopy and stem. Requires stem feed kit (LTAP2) to be used as feed. Available in 12", 18", 24", 36" and 48". Available in White (**WH**) and Black (**DBL**). Can be feild cut.

LTATP1 xx (color)¹ (Specify 12, 18, 24, 36 or 48)



T-Bar Junction Box

Replacements only.

LTAT25



NOTES:

1 Two stems required for 2' or 4' track. Three stems required for 8' track. Four stems required for 12' track. Can be field-cut and threaded.



Track Connectors and Accessories

Cord and Plug Feed

Permits track to be connected to grounded outlet. 12-foot, 3-wire cord. Maximum 10 amps. Includes one dead end. Consult factory for use. Available in White (WH) and Black (DBL).

LTA10 (color) One-circuit



Line Voltage Monopoint

Converts line voltage track fixture for direct wiring to an outlet box. For use with 120V fixture. Available in White (WH) and Black (DBL).

LTA18 (color)1



Pendant Chain Adaptor

Allows chain-hung or swag fixtures to be attached to track. Max. weight: 20 lbs. (9kg). Available in White (**WH**) and Black (**DBL**).

LTA16 (color) One-circuit and two-circuit



Grounded Convenience Outlet

Provides an electrical outlet on the track. Consult factory for use. Available in White (WH) and Black (DBL).

LTA15 (color)



Low Voltage Monopoint

Converts low voltage track fixture for direct wiring to an outlet box. Designed for use with electronic low voltage fixture. Available in White (WH) and Black (DBL).

LTA21 (color)



Switch Module

Allows independent switching of connected fixtures. Available in White (WH) and Black (DBL).

LTA17 (color)¹ One-circuit and two-circuit



Pendant Cord Adaptor

Allows cord-hung fixtures to be mounted to track. Maximum weight: 20 lbs. (9kg). Available in White (WH) and Black (DBL).

LTA19 (color) One-circuit and two-circuit



NOTES

1 Not available for use with LTD CFWW20.



Track Head Accessories

Filter holders Example: LTFH500 DBL

Barn door

Example: LTBD500 DBL

Hood Example: H400 WH







Ordering Information

Example: LTFH500 WH

	Series ^{1,2}	Size
LTFH	Filter holder	200
LTWFH	Filter holder	400
LTGCS	Filter holder ³	500
LTBD	Barn door	600
LTWBD	Barn door ⁴	700
LTGBD	Barn door	701
Н	Hood ⁵	800

	Finish	
WH	White	
DBL	Black	

	Size Availability Chart							
Series	200	400	500	600	700	701	800	N/A
LTFH								
LTWFH			П					
LTGCS								
LTBD								
LTWBD								
LTGBD								
Н								

NOTES

- $1\quad All filter holders and barn doors will accommodate up to two lenses or louvers.$
- 2 Refer to chart for size availability. Refer to track head submittal sheet for actual series/size compatibility.
- 3 Not available with sizes. Not available with finishes.
- 4 Will not accept lenses or louvers.
- 5 Hood will accommodate one lens or louver.

Lens (filters)



Honeycomb louver (L200)

Soda lime lenses¹ RR Rub

> MB MG

MA

DB

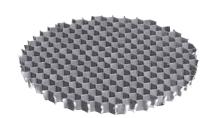
MP

Ruby red filter Medium blue filter

Dark blue filter

Medium pink filter

Medium green filter Medium amber filter



Eggcrate louver (L300-800)



Example: F400 RR

Finish⁴
(blank) Black
WH White

Ordering Information

Series	Size ³
F Lens (filter) ¹ L Louver ^{1,2}	200 400 500 600 700 701 800

Size Availability Chart							
Lamp Type	200	300	400	500	600	700	800
MR16							
PAR16							
PAR20							
PAR30							
PAR36							
PAR38							
PAR38/3							

Size dependant upon fixture type and retaining method. See specification sheets.

	Lens type		
Filter colors		Beam-shapi	ing lenses
Dichronic bo	prosilicate lenses (safety glass)	Borosilicate	lenses (safety glass)
RED	Red filter	PMF	Perimeter frost lens
GAMB	Golden amber filter	LTF	Light frost lens
YEL	Yellow filter	SFG	Softening lens
GRN	Green filter	Soda lime le	enses ¹
CBLUE	Cool blue filter	SL	Spread lens
MBLUE	Medium blue filter	EG	Elongating lens
CPCH	Cool peach filter		
MGN	Magenta filter		
CYAN	Cyan filter		
CL	Clear safety lens		
UV	+99% UV blocking below 400 nm		

NOTES:

- $1\quad Safety\, glass\, required\, in\, combination\, when\, used\, with\, MR16.$
- $2 \quad \text{Not recommended for use with a luminized MR16 reflector. Not available with lens types.} \\$
- 3 See chart for lamp compatibility.
- 4 Available with louvers (L) only.

LITHONIA LIGHTING®



Indoor HID

Lithonia Lighting offers a wide selection of indoor HID products to address high-mount and low-mount lighting applications.

Lithonia industrial lighting withstands vibration, dirt, heat, moisture and corrosiveness while providing proper levels of efficient illumination. Lithonia commercial lighting provides a bright, cheerful and relaxed atmosphere that enhances customer and worker comfort. Lithonia recreational lighting delivers glare-free illumination so that playing surfaces and the surrounding environment are adequately illuminated for spectator and player safety.





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Low Bays/High Bays

Selecting the proper optical for your application is essential to obtain desirable results and a high quality lighting installation. Making the proper choice can become complicated with the many different aspects of a space to consider and the wide selection of optics from which to choose. Determining the mounting height for an application is the first step to narrowing the selection.

HID lighting fixtures are grouped in two general categories of low bays and high bays. Low bays are for areas with mounting heights typically under 20 feet. High bays are designed for spaces with mounting heights of approximately 18 feet and higher.

Low Bays



Low bays are designed with distributions to spread the light out in a space and prevent hot spots of light below the luminaire. The bottom prismatic lens bends the light to create wide distributions that improve uniformity and increase vertical illumination at lower mounting heights. Low bays perform best at mounting heights less than 20 feet and are available in various wattages up to 450 watts. The prisms reduce glare and

brightness by obscuring the lamp from view and spread out the lamp image across the lens, improving visual comfort within a space. All lenses are gasketed and supported by a door ring held in place with stainless spring steel latches that ensure a tight seal to minimize dirt entry. Optional charcoal filtering provides added protection against contaminant entry by controlling and cleaning airflow into the luminaire.

High Bays



High bays have distributions for directing light downward to maximize horizontal light levels on an area or task. Mounted at heights of 18 feet to more than 40 feet, they are available with narrower distributions and wattages up to 1000 watts. Glare and brightness are not as critical as for low bays since the luminaires are mounted high above and viewed from greater distances away. These reflectors typically are open to maximize output efficiency and minimize dirt accumulation. Open-top, open-bottom reflectors stay cleaner because the heat from the lamp creates a convective airflow that continually moves dirt and dust

air flow

Enclosed high bays have a flat clear lens to minimize degradation of the anodized finish in harsh environments or contain the lamp if breakage occurs from impact to the luminaire or arc tube rupture. A flat lens typically will reduce luminaire efficiency by 5-10% compared to the same reflector open. All lenses are gasketed and supported by a door ring held in place with stainless spring steel latches that ensure a tight seal to minimize dirt entry. Optional charcoal filtering provides added protection against contaminant entry by controlling and cleaning airflow into the luminaire.

Material Choice

away from the reflector.

Low bays and high bays primarily are available in aluminum, acrylic and glass. Each material differs in performance, cost and durability making them suitable for a variety of applications for different reasons.

Hi-Tek® Aluminum



- · Maximized horizontal light levels
- · High ambient temperature
- Impact tolerant
- Oily and corrosive environments (high bays)
- Long service life

Aluminum is an economical and easily shaped material used to produce efficient reflectors that can withstand impact and high ambient temperatures. Different finishes are applied for protection and photometric performance. An anodized finish protects against corrosion, oily environments and increases control of the reflected light to produce distinct distributions with efficient photometric performance. A highly reflective white polyester powder coat paint finish provides excellent protection against many corrosive compounds and creates a widespread distribution for low bays that helps reduce glare from the lamp. Hi-Tek reflector designs are available in both low bays and high bays that maximize downward efficiency with very little or no uplight component.

Hi-Tek low bay opticals combine aluminum reflectors with prismatic acrylic refractor lenses.

Together they produce wide distributions that maximize downward efficiency, minimize glare and enhance vertical illumination. These are ideal for applications with darker ceilings or where uplight is not desired or beneficial in applications such as retail, sports facilities, manufacturing, heavy industrial and food processing. See Acrylume® acrylic section on next page for limitations of acrylic.

Hi-Tek open high bay reflectors have narrower distributions to maximize downward efficiency and horizontal light levels from high mounting heights. Applications for these reflectors include warehouses, manufacturing facilities, heavy industrial and other areas with high mounting heights or where uplight is not desired or beneficial. Enclosed versions are available with a gasketed flat tempered glass lens and door.



Prismatic acrylic reflector and refractor designs are a popular choice for many applications. Acrylume® opticals boast higher luminaire efficiencies than aluminum reflectors through an added uplight component that smoothly illuminates the ceiling surface. A brighter ceiling reduces the background contrast so the luminaires do not appear to be as bright. The added uplight also contributes to better vertical illumination, greater uniformity and a more natural daylight feeling within a space.

Acrylume® low bay optics combine acrylic reflectors with prismatic acrylic refractor lenses. This combination is superior for glare and brightness control, vertical illumination and overall uniformity. The high quality of light delivered by these optics make them well suited for retail, institutional, sports facilities, food processing and light manufacturing applications at mounting heights less than 20 feet. A flat clear bottom lens is available in tempered glass or acrylic that produce narrower distributions suitable for mounting heights above 18 feet.

Acrylume® open high bay reflectors produce distributions for mounting heights above 18 feet. The prismatic reflector has an uplight component of 15 to 20% that illuminates surfaces above the luminaire. This eliminates shadows and scalloping along walls and at tops of warehouse aisleways. Applications include retail, light manufacturing, warehousing and institutional buildings.

Acrylume® acrylic optics are UV stabilized to prevent yellowing for ten years when operating at or below the luminaire's ambient temperature rating. Acrylic is susceptible to degradation from exposure to certain chemical compounds and oils. Compatibility must be verified for applications with air borne contaminants by referencing the acrylic environmental compatibility chart on page 735. Acrylic reflectors and refractors need to be replaced once they become visibly yellow or show signs of hazing or cracking from degradation by contaminants.

Acrylume® Acrylic



- High luminaire efficiency
- Uplight and vertical illumination
- · Brightness and glare control
- High uniformity

Borosilicate glass is a material with many attributes that make it an ideal solution for HID lighting. DuraBay prismatic glass can withstand operation in 65° C ambient temperatures without ever discoloring, turning yellow or deforming. Glass does not have a static charge that attracts dirt, so it remains cleaner longer with higher maintained luminaire efficiency than aluminum or acrylic. It also endures corrosive and oily environments better than any other material or finish. Original optical performance is easily restored with proper cleaning.

DuraBay high bay distributions have an uplight component of 20 to 25% that evenly illuminates the ceiling above. This reduces background contrast and perceived brightness of the luminaire creating a more visually comfortable environment. Uplight also contributes to better vertical illumination, greater uniformity and a more natural daylight feeling within a space. The prismatic design minimizes reflector side wall brightness by breaking up the reflected lamp image increasing visual comfort. Enclosed versions are available with a gasketed flat tempered glass lens door and optional charcoal filter. Applications include retail, manufacturing, warehousing, sports facilities and institutional buildings.

DuraBay open and enclosed glass high bays with aluminum shroud maximize downward efficiency and horizontal light levels similar to aluminum high bays, but with the benefits and performance of glass. These reflectors deliver highest maintained efficiency, superior durability in the toughest environments, and excellent glare and brightness control. Applications include heavy industrial, manufacturing, warehousing and sports facilities.

DuraBay® Borosilicate Glass



- Brightness & glare control
- · Uplight and vertical illumination
- · Highest maintained efficiency
- Oily and corrosive environments
- High ambient temperatures
- Longest service life



Die-Cast Aluminum Housings, Interchangeable Opticals

TH High Bay



Modular ballast housing for high bay opticals. Pre-attached adjustable legs accept a wide selection of anodized aluminum and prismatic acrylic high bay reflectors. A variety of distribution patterns at higher mounting heights can be achieved. These systems

provide minimum brightness and glare, and superior energy efficiency.

Large ballast housing utilized for optional high ambient temperature rating and for 450-1000W ballasts.

Housing	Reflector	Primary function	Typical mounting height	Page
TH	A14	Vertical illumination; aisleways.	18'-35'	368
TH	A15	Horizontal illumination.	18'-25'	366
TH	A16	High efficiencies; glare control.	18'-35'	364
TH	A17, A221	Optimum lamp shielding; glare control.	18'-40'+	362
TH	PA16,PA22, PA22E,PA22L	High efficiencies; vertical & horizontal illumination; uplight; glare control.	18′-35′	358
TH	PA22N,PA22SP, PA25 ¹	High efficiencies uplight; glare control; more narrow distributions for higher mounting heights.	20'-40'+	358

TX Low Bay



Modular ballast housing for enclosed low bay opticals. Accepts various heavy-duty aluminum and prismatic acrylic low bay optical assemblies. Designed to provide uniform, glare-free energy-efficient lighting. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point

of attachment and a fully gasketed lens door assembly.

Large ballast housing utilized for optional high ambient temperature ratings and for 450W ballasts

			Typical	
Housing	Optical	Primary function	mounting height	Page
TX	A121, A125	Lower wattage; vertical and horizontal illumination.	8'-16'	375
TX	A162, A165	Vertical and horizontal illumination.	14'-20'	375
TX	PA22C	High efficiencies; vertical illumination with uplight; glare control.	14'-20'	361
TX	PA25D	High efficiencies; vertical and horizontal illumination; glare control.	14'-20'	361
TX	PA22GLE, PA25ALE	High efficiencies; vertical and horizontal illumination (higher mounting).	14'-25'	360
TX	A20	Lower wattage; premium glare control.	10'-16'	370
TX	A26	Vertical and horizontal illumination; premium glare control.	14'-20'	370
TX	A30	High efficiencies; vertical and horizontal illumination; glare control; low brightness.	14'-20'	371
TX	A23	High efficiencies; glare control; vertical and horizontal illumination.	14'-20'	372

NOTES:

 $1\quad \text{Suitable for 875W and 1000W using large ballast housing.}$



TPG Open Glass High Bay

Provides reliable, simple installation of open glass and shrouded glass reflectors with heavy-gauge mounting brackets and sliding safety latches. Heavy-duty, die-cast splice box allows flexibility for surface, through-wire or pendant

mounting. Distributions are designated in the catalog number and factory-preset. Large ballast housing utilized for optional high ambient temperature rating and for 450-1000W ballasts.

Housing	Reflector	Primary function	Mounting height	Page
TPG	PG16	Optimum efficiencies; balance of uplight and downward distribution.	16'-35'	354
TPG	PG16A	Provides downward distributions and softens lamp image.	16'-35'	355
TPG	PG21 ¹	Optimum efficiencies; balance of uplight and downward distribution.	20'-40'+	354
TPG	PG21A ¹	Provides downward distributions and softens lamp image.	20'-40'+	355



Accepts enclosed and gasketed glass optical assemblies in both the standard and shrouded versions. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point of attachment and a fully gasketed lens ring assembly. Heavy-duty, die-cast splice box allows flexi-

bility for surface, through-wire or pendant mounting. Distributions are designated in the catalog number and factory-preset. Large ballast housing utilized for optional high ambient temperature rating and 450-1000W ballasts.

Housing	Reflector	Primary function	Mounting height	Page
TPGE	PG16GLE	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.	16′-35′	356
TPGE	PG16AGLE	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.	16′-35′	357
TPGE	PG21GLE ¹	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.	20'-40'+	356
TPGE	PG21AGLE ¹	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.	20'-40'+	357

TPGE Enclosed Glass High Bay



Designed for E17 and E22 totally enclosed aluminum optical assemblies. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point of attachment and a fullygasketed lens ring assembly. Distributions are

designated in the catalog number and factorypreset. Large ballast housing utilized for optional high ambient temperature rating and 450-1000W ballasts.

Housin	g Reflector	Primary function	Mounting height	Page
TE	E17	Totally enclosed optics, optimum lamp shielding and glare control.	20'-40'+	363
TE	E221	Totally enclosed optics, optimum lamp shielding and glare control.	25'-40'+	363

TE Enclosed Aluminum High Bay



TXF Low Bay

Designed for food processing areas and wet location applications. These assemblies feature fully gasketed construction, special FDA/USDA-compliant materials and finish, stainless steel and corrosion-resistant hardware with no ex-

posed threads and NSF certification. These systems provide glare-free, energy-efficient lighting. Large ballast housing is standard for optimal operating temperature.

Housing	Optical	Primary function	Mounting height	Page
TXF	A30F	High efficiencies; vertical & horizontal illumination; glare control; low brightness. Hose-down tested to 1200psi, IP65 rated. Wet location listed.	14'-20'	374
TXF	PA25ALEF	High efficiencies; vertical and horizontal illumination; glare control. IP65 rated. Wet location listed.	14'-25'	374

NOTES:

 $1\quad \text{Suitable for 750W, 875W and 1000W using large ballast housing.}$





SH High Bay



Modular ballast housing for high bay opticals.

Pre-attached adjustable legs accept a wide selection of anodized aluminum and prismatic acrylic high bay reflectors. A variety of distribution patterns at higher mounting heights can be achieved. These systems provide

minimum brightness and superior energy efficiency. Ventilated design optimizes thermal performance of enclosed electronic ballast housing. Optional heat shield provided for high ambient temperature rating.

Housing	Reflector	Primary function	Mounting height	Page
SH	A14	Vertical illumination aisleways.	18'-35'	369
SH	A15	Horizontal illumination.	18'-25'	367
SH	A16 A16GL	High efficiencies; glare control.	18'-35'	365
SH	PA22	High efficiencies; vertical & horizontal illumination; uplight; glare control.	18'-35'	359
SH	PA22N,PA22SP	High efficiencies; vertical & horizontal illumination; uplight; glare control; narrower distribution for higher mounting heights.	20'-40'+	359

SX Low Bay



Modular ballast housing for enclosed low bay opticals. Accepts heavy-duty aluminum optical assembly. Designed to provide uniform, glarefree energy-efficient lighting. Optical are equipped with a heat-resistant, dust-inhibitive

gasket at the point of attachment and a fully gasketed lens door assembly. Ventilated design optimizes thermal performance of enclosed electonic ballast housing. Optional heat shield provided for high ambient temperature rating.

Housing	Optical	Primary function	Mounting height	Page
SX	A23	High efficiencies; glare control; vertical and horizontal illumination.	14'-20'	373

SPG High Bay



Modular ballast housing for open glass high bay opticals. Provides reliable, simple installation of open glass and shrouded glass reflectors with heavy-gauge mounting brackets and sliding safety latches. Distributions are designated in the

catalog number and factory-preset. Vented design optimizes thermal performance of enclosed electronic ballast housing. Optional heat shield provided for high ambient temperature rating.

Hou	using Reflect	or Primary function	Mounting height	Page	
SPO	G PG15	Optimum efficiencies; balance of uplight and downward distribution.	16′-35′	353	



Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination and premium contrast control. Ideal for retail and warehouse applications. Steel ballast housing (SPG) should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast - Electronic ballast is 100% factory tested. Ballast will operate pulse start metal halide lamps only from 200-277V.

Optics - High-efficiency, high-performance, heat-resistant borosilicate glass reflector is mounted with a heavy-guage rigid wire form fitted to top of reflector. Opticals have a self-clean-

ing, ventilated design that carries optical contaminants out through top of reflector for maximum performance. Prismatic glass controls glare, reduces reflector-side wall brightness, and adds uplight component for greater visual comfort and improved uniformity.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 34" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

DuraBay™



Example: SPG 400M PG15 M 277 GEB SC3P

Ordering Information

Wattage Series Metal halide protected1 SPG 320MP 350MP 400MP Metal halide 400M

Optical PG15

Voltage Distribution (select one) Narrow 208 N Concentrating 240 Medium 277 M TVOLT2 S Spread W Widespread



Pulse start metal halide **GEB** Electronic ballast

See pages 384-385 for details.

Options/Accessories
See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data							
Standa	rd W	eight		Spa	acing	criter	ia
Wattage ballas	t lbs.	kgs.	N	C	М	S	W
Metal halide (mog.	/clear <u>)</u>						
400 GEB	21	9.5	0.7	1.0	1.3	1.7	2.1

Drawings are for dimensional detail only and may not represent actual mechanicalconfiguration. Dimensions are shown in inches (centimeters) unless otherwise noted

NOTES:

- See page 385 for details on protected sockets.
- $2 \quad Tri-volt electronic ballast capable of operating on any line voltage between 200V$ and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.

SPG PG15 Overallheight: 20-7/16 (51.95) Reflectorheight: 10-9/16(26.85) Diameter: 15-9/16(39.56)





DuraBay™



Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, and premium contrast control. Optimum performance for high ambient temperatures and dirty environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, high-performance, heat-resistant borosilicate glass reflector mounted within heavy-gauge rigid wire form rings and rods fitted to top of reflector and bottom of reflector. Yields high vertical footcandles

with low brightness and excellent contrast control. Self-cleaning, ventilated design carries optical contaminants out through top of reflector.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Cast-aluminum pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulsestart -30°C to 40°C.

Example: TPG 400MP PG16 M TB SCWA QRS

Ordering Information

Seri

es	Wattage	Optical	Di	stribut	ion (sel	ect o	ne)
G		High pres	sure sod	lium			
	1505	PG16	N	C	М	S	W
	2005	PG16	_	C	M	S	W
	250S	PG16	_	C	M	S	W
	400S	PG16	-	C	M	S	W
	400S	PG21	-	C21	_	_	-
	10005	PG21	-	_	M21	_	-
		Metal hali	de prote	cted1			
	175MP	PG16	N	C	М	S	W
	200MP	PG16	N	C	M	S	W
	250MP	PG16	N	C	M	S	W
	320MP	PG16	N	C	M	S	W
	350MP	PG16	N	C	M	S	W
	400MP	PG16	N	C	M	S	W
	450MP	PG16	N	C	M	S	W
	200MP	PG21	N21	-	-	-	-
	350MP	PG21	N21	-	-	_	-
	400MP	PG21	N21	-	-	_	-
	450MP	PG21	N21	_	_	-	-
	875MP	PG21	-	C21	-	-	-
	1000MP	PG21	_	C21	_	-	-
		Meta	ıl halide				
	400M	PG16	N	C	М	S	W
	400M	PG21	N21	-	-	-	-
	1000M	PG21	-	C21	_	_	_

Voltage 120 **208**^{2,3} 2402,3,4 277 347 **480**^{2,3} TB⁵ TBV⁶

N = Narrow (= Concentrating

M = Medium S = Spread W = Widespread

Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer **LLSCWA** Low loss SCWA RLB Regulated lag ballast

> SCWI Isolated SCWA See pages 384-385 for details.

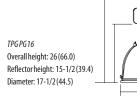
Ballast

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory

	Lamp/fixture data									
I	Standard Weight Spacing criteria									
	Wattage	ballast	lbs.	kgs.		N	C	М	S	W
I	High pressure	sodium (r	nog/cle	ar)						
	150 (PG16)	CWA	32	15		0.7	1.0	1.3	1.7	2.0
	200 (PG16)	CWA	35	16		-	8.0	1.2	1.6	1.9
	250 (PG16)	CWA	35	16		-	8.0	1.2	1.6	1.9
	400 (PG16)	CWA	38	17		-	8.0	1.2	1.7	2.0
	400 (PG21)	CWA	55	25		-	1.1	-	-	-
	1000 (PG21)	CWA	55	25		-	-	1.5	-	-
	Metal halide (mog/clea	<u>r)</u>							
	400 (PG 16)	CWA	36	16		0.7	1.0	1.3	1.7	2.0
	400 (PG21)	CWA	55	25		0.7	_	_	-	_
	1000 (PG21)	CWA	55	25		-	0.9	-	-	-

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



TPGPG21 Overall height: 28 (71.1) Reflector height: 19-1/2 (49.5) Diameter: 22 (55.9)



NOTES:

- 1 See page 385 for details on protected sockets.
- 2 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- $3\quad Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,high\,pressure\,sodium.\,Available\,for\,multiple and the contraction of the contracti$ 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Intended Use

For high mounting heights that require high efficiencies, horizontal illumination and premium contrast control. Optimum performance for high ambient temperature and dirty environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cooler operation

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector with aluminum shroud to protect glass prisms from

oily dirt accumulation, emphasizing downward efficiency. Self-cleaning, ventilated design carries optical contaminants out through top of reflector.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Cast-aluminum pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 55°C). 875W and 1000W pulse-start -30°C to 40°C.

TPG

DuraBay™



Ordering Information

Series	Wattage	Optical	Di	stribut	ion (sele	ct on	ie)			
TPG		High pressure sodium								
	1505	PG16A	N	C	М	S	W			
	2005	PG16A	_	C	M	S	W			
	2505	PG16A	_	C	M	S	W			
	4005	PG16A	_	C	M	S	W			
	4005	PG21A	_	C21	_	_	-			
	1000S	PG21A	_	-	M21	_				
		Metal hal	ide prot	ected1						
	175MP	PG16A	_	C	М	S	W			
	200MP	PG16A	_	C	M	S	W			
	250MP	PG16A	_	C	M	S	W			
	320MP	PG16A	_	C	M	S	W			
	350MP	PG16A	_	C	M	S	W			
	400MP	PG16A	_	C	M	S	W			
	450MP	PG16A	_	C	M	S	W			
	350MP	PG21A	N21	_	_	_	_			
	400MP	PG21A	N21	_	_	_	_			
	450MP	PG21A	N21	_	_	_	_			
	875MP	PG21A	_	C21	_	_	_			
	1000MP	PG21A	_	C21	_	_	_			
		Met	Metal halide							
	400M	PG16A	N	C	М	S	W			
	400M	PG21A	N21	-	-	_	-			
	1000M	PG21A	_	C21	_	_	_			

- 1	
Voltage	Ballast
120	Metal halide and high pressure sodium
208 ^{2,3}	(blank) Standard magnetic ballast
240 ^{2,3,4}	CWI Constant wattage isolated
277	MRB Magnetic regulator ballast
347	
480 ^{2,3}	Pulse Start H.I.D. Ballast/Lamp Systems

TR

TBV⁶

C = Concentrating M = Medium S = Spread

W = Widespread

Pulse Start H.I.D. Ballast/Lamp System
Pulse start metal halide

LLRPSL Linear reactor pulse start
SCWA Super constant wattage
autotransformer

LLSCWA Low loss SCWA
RLB Regulated lag ballast
SCWI Isolated SCWA

Seepages 384-385 fordetails.

Example: TPG 400MP PG16A M TB HC3P

Options/Accessories	
206 207 HIDI	

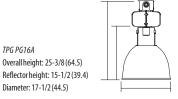
 $See pages 386\hbox{-}397. HID lamps are available \\ with luminaires. Consult factory.$

eria S	W						
S	W						
	V V						
High pressure sodium (mog/clear)							
1.4	1.6						
1.7	2.0						
1.7	2.0						
1.7	2.0						
-	-						
-							
1.7	2.1						
-	_						
-	_						
	1.7 1.7 1.7 –						

NOTES:

- 1 See page 385 for details on protected sockets.
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches** (centimeters) unless otherwise noted.



TPG PG21A Overall height: 27-5/8 (70.2) Reflector height: 19-1/2 (49.5) Diameter: 22 (55.9)



www.lithonia.com, keyword: TPG-A



TPGE

DuraBay™



Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, and premium contrast control. Optimum performance for high ambient temperatures and harsh environments. Ideal for heavy manufacturing areas, retail, warehouse aisles and gymnasiums.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, high performance heatresistant borosilicate glass reflector mounted within a heavy-gauge rigid wire form. Yields high vertical foot candles with low brightness and excellent contrast control. Cast-aluminum upper enclosure and corrosion-resistant steel flange and clear tempered glass lens are fully gasketed. Lens assembly hinged and triple latched for tight seal and easy maintenance.

Socket - Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Installation - Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 750W, 875W and 1000W pulse-start -30°C to 40°C.

Example: TPGE 400M PG16GLE M TB SCWA

Ordering Information

Series Wattage Optical Distribution (select one) TPGE High pressure sodium 1505 PG16GLE C 2005 PG16GLE C M PG16GLE М W **250S** C S 4005 PG16GLE C M S W 4005 PG21GLE **C21** TB⁴ 10005 PG21GLE **C21** Metal halide 175M W PG16GLE 200M G16GLE N W 250M PG16GLE N C 320M PG16GLE N M C PG16GLE М W 350M N C M w PG16GLE N 400M C 450M PG16GLE N C M W 350M PG21GLE N21 PG21GLE N21 400M 450M PG21GLE N21 750M PG21GLE N21 875M PG21GLE N21 M = Medium **C21** 1000M PG21GLE = Spread W = Widespread

Voltage Ballast 120 Metal halide and high pressure sodium **208**^{1,2} (blank) Standard magnetic ballast **240**^{1,2,3} CWI Constant wattage isolated 277 MRB Magnetic regulator ballast 347 480 Pulse start metal halide TBV⁵ LLRPSL Linear reactor pulse start SCWA Super constant wattage

LLSCWA Low loss SCWA

See pages 384-385 for details.

autotransformer

RLB Regulated lag ballast

Isolated SCWA

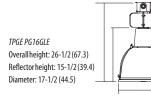
N = Narrow = Concentrating

Options/Accessories

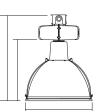
 $See pages\,386\text{--}397.\,HID\,lamps\,are\,available$ with luminaires. Consult factory.

Lamp/fixture data									
	Standard	Wei	ght		Spaci	ng cr	iteria		
Wattage	ballast	lbs.	kgs.	N	C	М	S	W	
High pressure sodium (mog/clear)									
150 (PG16GLE)	CWA	32	15	-	0.9	1.3	1.5	1.8	
200 (PG16GLE)	CWA	35	16	-	0.9	1.5	1.7	2.0	
250 (PG16GLE)	CWA	35	16	-	0.9	1.5	1.7	2.0	
400 (PG16GLE)	CWA	38	17	-	8.0	1.3	1.7	2.2	
400 (PG21GLE)	CWA	55	25	-	1.0	_	_	_	
1000 (PG21GLE)	CWA	55	25	-	1.4	_	-	-	
Metal halide (mo	g/clear)								
175 (PG16GLE)	CWA	36	16	0.6	8.0	1.3	1.6	1.9	
250 (PG16GLE)	CWA	36	16	0.6	8.0	1.3	1.6	1.9	
400 (PG16GLE)	CWA	38	17	0.7	0.9	1.3	1.6	1.9	
400 (PG21GLE)	CWA	55	25	0.9	_	_	_	-	
1000 (PG21GLE)	CWA	55	25	-	1.2	-	-	_	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



TPGF PG21GI F Overall height: 28-1/2 (72.4) Reflectorheight: 19-1/2 (49.5) Diameter: 22 (55.9)



- 1 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- ${\bf 2} \quad {\bf Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,high\,pressure\,sodium.\,Available\,for}$ 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).



Intended Use

For high mounting heights that require high efficiencies, horizontal illumination and premium contrast control. Optimum performance for high ambient temperatures and harsh environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory ttested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, high performance heatresistant borosilicate glass reflector mounted in heavy-gauge rigid wire form. Aluminum shroud protects glass prisms from oily dirt accumulation, emphasizing downward efficiency. Cast-aluminum upper enclosure, corrosion-resistant steel

flange and clear tempered glass lens are fully gasketed to inhibit entrance of ambient contaminants. Lens assembly is hinged and triple latched for tight seal and easy maintenance.

Socket - Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Installation – Cast-aluminum pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 750W, 875W and 1000W pulsestart -30° C to 40° C.

Voltage

120

277

347

TB⁴

TBV⁵

480^{1,2}

208^{1,2}

240^{1,2,3}

DuraBay™



Ordering Information

Series Wattage **Optical** Distribution (select one) High pressure sodium **TPGE** 150S PG16AGLE 2005 PG16AGLE M C S W PG16AGLE M S W **250S** C 4005 PG16AGLE (M S W **400S** PG21AGLE **C21** 1000S PG21AGLE **C21** Metal halide 175M PG16AGLE N 200M PG16AGLE 250M PG16AGLE N C S W 320M PG16AGLE N C М 350M PG16AGLE N C W 400M PG16AGLE PG21AGLE 400M N21 750M PG21AGLE N21 875M PG21AGLE N21 1000M PG21AGLE **C21**

= Narrow

= Spread = Widespread

= Concentrating = Medium

NOTES:

- 1 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- 2 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Example: TPGE 400M PG16AGLE M 277 HOCS

Ballast

Metal halide and high pressure sodium Standard magnetic ballast Constant wattage isolated MRB Magnetic regulator ballast

Pulse start metal halide LLRPSL Linear reactor pulse start

Super constant wattage

autotransformer **LLSCWA** Low loss SCWA RI R Regulated lag ballast

Isolated SCWA See pages 384-385 for details.

SCWA

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

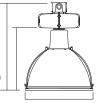
Lamp/fixture data									
	Standard Weight Spacing criteria								
Wattage	ballast	lbs.	kgs.	N	C	М	S	W	
High pressure	High pressure sodium (mog/clear)								
150 (PG16A0	GLE) CWA	32	15	-	8.0	1.2	1.5	1.8	
200 (PG16A0	GLE) CWA	35	16	-	1.6	1.8	2.0	2.2	
250 (PG16A0	GLE) CWA	35	16	-	1.6	1.8	2.0	2.2	
400 (PG16A0	GLE) CWA	38	17	-	1.2	1.6	1.8	2.0	
400 (PG21A0	GLE) CWA	55	25	-	1.0	-	-	-	
1000 (PG21A	GLE) CWA	55	25	-	8.0	-	-	-	
Metal halide	(mog/clear)								
175 (PG16A0	GLE) CWA	36	16	-	1.3	1.5	1.7	2.0	
250 (PG16A0	GLE) CWA	36	16	_	1.3	1.5	1.7	2.0	
400 (PG16A0	GLE) CWA	36	16	0.8	1.2	1.4	1.6	1.9	
400 (PG21A0	GLE) CWA	55	25	0.8	_	_	-	_	
1000 (PG21A	GLE) CWA	55	25	-	1.1	-	-	-	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches** (centimeters) unless otherwise noted.

TPGE PG16AGLE Overall height: 26-1/8 (66.4) Reflector height: 15-1/2 (39.4) Diameter: 17-1/2 (44.5)



TPGE PG21AGLE Overallheight: 28-1/2 (72.4) Reflectorheight: 19-1/2 (49.5) Diameter: 22 (55.9)





TH PA22 TH PA25

Acrylume®



Intended Use

For high mounting heights that require higher efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic **Environmental Compatibility Chart on page** 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - UV-stabilized, high-efficiency, high-performance acrylic reflector yields high vertical footcandles while maintaining low brightness. Optical assembly is fully adjustable & accommodates a range of light distributions, while providing approximately 15-20% uplight. Open opticals are self cleaning - ventilated design carries contaminants out top of reflector. Enclosed optical utilizes clear, tempered-glass lens. Hinged and latched for easy maintenance. Coated lamps provide optimum performance.

Socket - Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. Protected version with pink exclusionary socket. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Pendant splice box (PSB) threaded for 34" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations.

Example: TH 350MP PA22 TB SCWA FWG

Ordering Information

Series	Wattage	Optical						
TH	I	High pressure sodium						
	250\$	PA16						
	250S	PA22 or PA22N						
	250S	PA22L ²						
	400S	PA22 or PA22N						
	400S	PA22L ²						
	10005	PA25						
	M	letal halide protected ¹						
	200MP	PA22, PA22N orPA22SP						
	250MP	PA22, PA22N or PA22SP						
	320MP	PA22, PA22N orPA22SP						
	350MP	PA22, PA22N or PA22SP						
	400MP	PA22, PA22N or PA22SP						
	450MP	PA22, PA22N or PA22SP						
	875MP	PA25						
	1000MP	PA25						
		Metal halide						
	175M	PA22E ³						
	200M	PA22E ³						
	250M	PA22E ³						
	400M	PA22, PA22N or PA22SP						
	400M	$PA22L^2$						

Voltage		Ballast					
120 208 ^{4,5} 240 ^{4,5,6} 277 347	Metal hal (blank) CWI MRB	ide and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast					
480 ^{4,5} TB ⁷		Pulse Start H.I.D. Ballast/Lamp Systems Pulse start metal halide					
TBV ⁸	LLRPSL SCWA	Linear reactor pulse start Super constant wattage autotransformer					
	LLSCWA RLB	Low loss SCWA Regulated lag ballast (175- 400W)					
	SCWI	Isolated SCWA (400W)					

PA16 Standard PA22N = Narrow PA22SP = Concentrated PA22F = Standard PA22L Standard PA25 = Standard

See pages 384-385 for details

Options/ Accessories See pages 386-397. **HID lamps are** available with luminaires. Consult factory

Lamp/fixture data								
	Standard	Wei	ght	S/mtg.				
Wattage	ballast	lbs.	kgs.	height				
High pressure sodium (mog/coated)								
250 (PA16)	CWA	21	10	1.2 to 1.9				
400 (PA22)	CWA	35	16	1.3 to 2.0				
250 (PA22N)	CWA	21	10	0.8 to 2.0				
400 (PA22N)	CWA	35	16	0.8 to 2.0				
1000 (PA25)	CWA	48	22	1.3 to 2.2				
Metal halide (mod	<u>//coated)</u>							
175 (PA22E)	CWA	20	9	1.3 to 2.0				
250 (PA22E)	CWA	22	10	1.3 to 2.0				
400 (PA22)	CWA	31	14	1.2 to 2.1				
400 (PA22N)	CWA	31	14	0.8 to 2.1				
400 (PA22SP)	CWA	31	14	0.8 to 2.1				
1000 (PA25)	CWA	40	18	1.6 to 2.2				

Ambient Parameters	-30°to 25°C (-22°to 131°F)	-30°to40°C (-22°to77°F)	-30°to55°C (-22°to104°F)
TH250SPA16, PA22/PA22N/PA22SP			
TH175M, 250MPA22E			
TH400M, 400SPA22/PA22N/PA22SP			
TH400M,400SPA22L			
TH1000M, 1000SPA25			

■=COMPATABILITY

- See page 385 for details on protected sockets.
- Lensed bottom, open top. Periodic cleaning maintains performance. Does not meet UL lamp rupture containment.
- Enclosed bottom, open top. Meets UL lamp rupture containment standards. Periodic cleaning maintains performance.
 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for
- 70-400Wonly. 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide
- and high pressure sodium lamps.
 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only). TH PA25



Reflector height: 14 (35.6) Varies with distribution Overall height: 23to 26-3/8 (58.4to 62) Diameter: 25-1/2 (64.8)



light**guick°X0** Express delivery products. See page11 for details about LightQuick XD. Description **TH 400 PA22 TB**

TH PA16 Reflector height: 10-3/4(27.3)

noted.

Varies with distribution Overall height 20-5/8to26(52.4to66) Diameter: 16-1/4(41.3)

TH PA22/PA22I Reflector height: 13-1/2(34.3) Varies with distribution. Overall height: 20-5/8to26(52.4to66) Diameter: 22-3/8 (56.8)

PA25

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ $configuration. \ Dimensions \ are shown in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise$



1000M

For high mounting heights that require higher efficiencies, high horizontal/vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Steel ballast housings should be used in areas with minimal airborne contaminants. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high horizontal

footcandles while maintaining low brightness. Optical assembly is fully adjustable, accommodates a range of light distributions while providing approximately 15–20% uplight. Self-cleaning, ventilated design carries optical contaminants out top of refractor. Coated lamps provide optimum performance.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) standard. Pendant splice box with top entry for $^3/_4$ " conduit also available with other mounting options. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

Voltage

208

240

277

TVOLT

SH PA22

Acrylume®

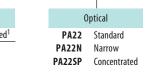


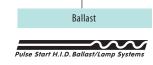
Example: SH 400M PA22 277 GEB SC3P

Series SH

Ordering Information







Pulse start metal halide **GEB** Electronic ballast
Seepages 384-385 for details.

Options/Accessories
See pages 386-397. HID lamps are avail-
able with luminaires. Consult factory.

Lamp/fixt	ure data	a	
Standard	We	ight	S/mtg.
ballast	lbs.	kgs.	height
/coated <u>)</u>			
GEB	14	6.5	1.2 to 2.1
GEB	14	6.5	0.8 to 2.1
GEB	14	6.5	0.8 to 2.1
	Standard ballast /coated) GEB GEB	Standard We ballast lbs. /coated) GEB 14 GEB 14	ballast lbs. kgs.

NOTES:

- 1 See page 385 for details on protected sockets.
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted

Reflector height: 13-1/2 (34.3) Diameter: 22-3/8 (56.8) Overall height: 20-5/8 to 26 (52.4 to 66) Varies with distribution.



Ambient Parameters	-30°to25°C (-22°to77°F)	-30°to40°C (-22°to104°F)	-30°to55°C (-22°to131°F)
SH400MPA22/PA22N/PA22SP			
	'		- COMPATABILIT



TXPA22GLE TXPA25ALE

Acrylume®



Intended Use

For controlled environments that require vertical and high horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – Injection-molded, virgin acrylic reflector with clear, tempered glass lens enclosure. UV-stabilized reflector. Lens is tempered glass for 22" reflector and flat clear acrylic for 25" reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning.

Totally enclosed, gasketed lens and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. -30°C to 40°C ambient operations (High Ambient HA option for 55°C).

Ordering Information

Series TX

Watt	tage		0pt	ical
High p	ressure :	sodium	, 22" glass	lens
50	S		PA2	2GLE
400	S		PA2	2GLE
High p	ressure s	odium,	25" acryli	c lens
250	S		PA2	5ALE
400	S		PA2	5ALE
M	etal hali	de, 22"	glass lens	;
175	M		PA2	2GLE
200	M		PA2	2GLE
250	M		PA2	2GLE
320M			PA2	2GLE
350	M		PA2	2GLE
400M			PA2	2GLE
450	M		PA2	2GLE
Me	etal halio	le, 25"	acrylic len	S
200	M		PA2	5ALE
250	M		PA2	5ALE
320	M		PA2	5ALE
350	M		PA2	5ALE
400	M		PA2	5ALE
450	M		PA2	5ALE

Example: TX 400M PA22GLE 277 SCWA HOCS

480 ²	Pulse Sta	rt H.I.D. Ballast/Lamp Systems
347		
277	MRB	Magnetic regulator ballast
240 ^{1,2,3}	CWI	Constant wattage isolated
208 ^{1,2}	(blank)	Standard magnetic ballast
120	Metal hal	ide and high pressure sodium
Voltage		Ballast

Pulse Start H.I.D. Ballast/Lamp Systems
Pulse start metal halide

LLRPSL Linear reactor pulse start

SCWA Super constant wattage

autotransformer
LLSCWA Low loss SCWA
RLB Regulated lag ballast
SCWI Isolated SCWA
Seepage384-385 fordetails.

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data				
	Standard	We	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure sodiu	m (mog/clear)			
250(PA22GLE)	CWA	33	15	1.6
400(PA22GLE)	CWA	36	16	1.6
250(PA25ALE)	CWA	39	18	1.1
400(PA25ALE)	CWA	39	18	1.1
Metal halide (mog/clear)				
250(PA22GLE)	CWA	30	14	1.7
400 (PA22GLE)	CWA	33	15	1.7
250(PA25ALE)	CWA	35	16	1.2
400(PA25ALE)	CWA	35	16	1.2

Ambient Parameters	-30°to25°C (-22°to77°F)	-30° to 40° C (-22° to 104° F)	-30°to55°C (-22°to131°F)
TX250S, 250M PA22GLE			
TX400S,400MPA22GLE			
TX250S, 250M PA25ALE			
TX400S, 400M PA25ALE			
TX450MPA25ALE			

= COMPATABILITY

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TX PA22GLE
Overallheight: 24-1/2 (62.2)
Reflectorheight: 17-1/2 (44.5)
Diameter: 23-3/8 (59.4)



TX PA25ALE

Overall height: 26-3/8 (66.9)

Reflector height: 15-3/8 (38)

Diameter: 25-3/4 (65.4)

 TB^4

TRV5



- $1 \quad Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.$
- $2\quad Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,HP.\,Available\,for\,70-400W\,only.$
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- $4\quad Optional \, multi-tap \, ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V \, in \, Canada).$
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).



For controlled environments that require a balance between high vertical and horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing: Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – Injection-molded, virgin acrylic reflector and drop (PA25D) or conical (PA22C) lens. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor

and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation: Pendant splice box threaded for 34" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. -30°C to 40°C ambient operations. UL wet location available.

TX PA22C TX PA25D

Acrylume®



Example: TX 400M PA22C 120 SF QRS

Ordering Information

Series
TX

		I .
Wattage		Optical 0
High pressure sodi	um, 22"	acrylic conical len
250\$		PA22C
400S		PA22C
High pressurem so	dium, 2	5" acrylic drop len
250\$		PA25D
400S		PA25D
Metal halide,	22" acry	lic conical lens
175M		PA22C
200M		PA22C
250M		PA22C
320M		PA22C
350M		PA22C
400M		PA22C
450M		PA22C
Metal halide,	25" acr	ylic drop lens
175M		PA25D
200M		PA25D
250M		PA25D
320M		PA25D
350M		PA25D
400M		PA25D
450M		PA25D

Voltage
120
208^{1,2}
240^{1,2,3}
277
347
480^{1,2}
TB⁴
TBV⁵

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast Pulse Start H.I.D. Ballast Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer LLSCWA Low loss SCWA RI R Regulated lag ballast SCWI Isolated SCWA See page 384-385 for details.

NOTES:

- 1 Requires CWI option in Canada for metal halide, available for 175-450W only. Not available for 250W in 480V.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TX250S,250MPA22C			
TX250S,250MPA25D			
TX400S,400MPA22C			
TX400S,400MPA25D			

= COMPATABILITY

Options/Accessories

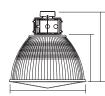
See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data				
	Standard	Standard Weight S/		S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure sodiur	n(mog/coated)			
250 (PA22C)	CWA	31	14	2.7
250 (PA25D)	CWA	34	15	2.4
400 (PA22C)	CWA	31	14	2.7
400 (PA25D)	CWA	34	15	2.4
Metal halide (mog/o	<u>coated)</u>			
250 (PA22C)	CWA	31	14	3.0
250 (PA25D)	CWA	31	13	2.8
350 (PA22C)	CWA	31	14	2.8
350 (PA25D)	CWA	31	13	2.5
400 (PA22C)	CWA	31	14	2.8
400 (PA25D)	CWA	30	13	2.8

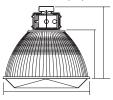
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TX PA22C

Overall height: 22-3/4(57.8) Refractor height: 15-3/4 (40) Diameter: 22-3/8(56.8)



TXPA25D Overall height: 22-1/8 (56.2) Refractor height: 17-1/8 (43.5) Diameter: 25-1/2 (64.8)





TH A 17 **THA22**

Hi-Tek®



Ordering Information



Wattage	Optical 0
High p	ressure sodium
70S	A17
100S	A17
150S	A17
2005	A17
250S	A17
400S	A17
10005	A22
Metal h	alide protected ¹
175MP	A17
200MP	A17
250MP	A17
320MP	A17
350MP	A17
400MP	A17
450MP	A17
875MP	A22
1000MP	A22
Me	etal halide
400M	A17
1000M	A22

Intended Use

For high mounting heights that require high efficiencies, horizontal illumination and premium glare control. Ideal for manufacturing areas and aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cool opera-

Ballast -100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - Premium spun aluminum, anodized reflector combines high efficiency with extended shielding angles for high performance. Exclusive fluted design minimizes arc tube voltage rise. Optical system is adjustable and accommodates the full range of industrial light distributions. Self-cleaning, ventilated design carries optical contaminants out through open top of reflector.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation - Pendant splice box threaded for 3/4" conduit (standard). Other mounting options

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulse-start -30°C to 40°C.

Example: TH 400M A17 277 SCWA F1

Voltage 120 **208**^{2,3} **240**^{2,3,4} 277 347 **480**^{2,3} TBV⁶

Ballast Metal halide and high pressure sodium Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast Pulse start metal halide

LLRPSL Linear reactor pulse start

Super constant wattage autotransformer

LLSCWA Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.

Ontions/Accessories

See pages 386-397. HID lamps are availabel with luminaires. Consult factory.

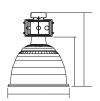
NOTES:

- 1 See page 385 for details on protected sockets.
- $2\quad Requires CWI or RLB option in Canada for metal halide. Available for 175-450W$
- 3 Requires CWlor MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000 W metal halide and high pressure sodium (CWA only).

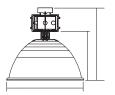
Lamp/fixture data								
Standard Weight S/mtg.								
Wattage	ballast	lbs.	kgs.	height				
High pressure soo	lium (mog/clear)						
70	HX-HPF	16	8	0.9 to 1.8				
100	HX-HPF	17	8	0.9 to 1.8				
150	HX-HPF	17	8	0.9 to 1.8				
200	CWA	19	9	0.8 to 2.0				
250	CWA	21	10	0.8 to 2.0				
400 (A17)	CWA	33	15	0.8 to 1.9				
1000 (A22)	CWA	56	26	0.8 to 1.6				
Metal halide (mo	og/clear)							
400 (A17)	CWA	25	11	0.8 to 1.8				
1000 (A22)	CWA	45	21	1.0 to 1.9				

 $Drawings\, are\, for\, dimensional\, detail\, only\, and\, may\, not represent\, actual\, mechanical\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, detail\, only\, and\, may\, not\, represent\, actual\, mechanical\, detail\, only\, actual\, detail\, configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TH A22 Overall height: 23-1/2 to 25 (59.7to63.5). Varies with distribution. Reflector height: 12-1/4(31.1) Diameter: 23-1/4(59.1)



TH A17 Overall height: 21-1/2 to 23-1/2(54.6to 59.7). Varies with distribution Reflector height: 12-1/8 (30.8) Diameter: 17-7/8 (45.4)





www.lithonia.com, keywords: TH-A17 or TH-A22

For high-mounting heights that require high efficiencies, horizontal illumination, premium glare control and total enclosure. Ideal for heavy manufacturing areas, gymnasiums and wet location applications.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cool operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - One-piece, totally enclosed-and-gasketed spun aluminum, anodized reflector combines high efficiency with extended shielding angle for high-performance optical control. Exclusive fluting design minimizes arc tube volt-

age rise. Gasketed, clear, tempered-glass lens inhibits the entrance of ambient contaminants. Hinge and lens retainer latches for tool-less access.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Pendant splice box (PSB) is threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulse-start -30° C to 40° C.

TE E17 **TE E22**

Hi-Tek®



Example: TE 400M E17 M TB SCWA

Options/Accessories See pages 386-397. HID lamps are availabel with luminaires. Consult factory

Ordering Information

Series	Wattage	Optics	Dis	tribut	ion (se	lect o	ne)
TE		High p	ressure	sodiur	n		
	705	E17	N	C	М	S	W
	1005	E17	N	C	M	S	W
	150S	E17	_	C	M	S	W
	2005	E17	N	C	M	S	W
	250S	E17	N	C	M	S	W
	400S	E17	-	-	M	S	W
	400S	E22	N	C	-	-	-
	10005	E22	N	C	-	-	-
		M	etal hal	ide			
	175M	E17	-	C	M	S	W
	200M	E17	-	C	M	S	W
	250M	E17	-	C	M	S	W
	320M	E17	-	_	M	S	W
	350M	E17	-	_	M	S	W
	400M	E17	-	-	M	S	W
	350M	E22	N	C	-	_	_
	400M	E22	N	C	_	_	_
	450M	E22	N	C	_	-	-
	750M	E22	N	C	_	_	_
	875M	E22	N	C	-	-	-
	1000M	E22	-	C	M	S	_

= Concentrated = Medium

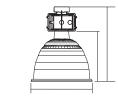
= Spread = Widespread

- 1 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- 2 Requires MRB or CWI option in Canada for high pressure sodium. Available for 70-400W only. 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide
- and high pressure sodium lamps. Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W and 1000W metal halide or high pressure sodium (CWA only).

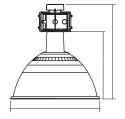
/oltage		Ball	ast		
120 208 ^{1,2} 240 ^{1,2,3} 277 347 480 ^{1,2} TB ⁴	Metal hal (blank) CWI MRB	ide and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast		Pulse star LLRPSL SCWA LLSCWA RLB SCWI	t H.I.D. Ballast/Lamp Systems rt metal halide Linear reactor pulse start Super constant wattage autotransformer Low loss SCWA Regulated lag ballast Isolated SCWA 84-385 fordetails.

	Lamp/fixture data											
	Standard	Wei	ght				Spac	ing/mou	ınting h	eight		
Watt	age ballast	lbs.	kgs.	E17N	E17C	E17M	E17S	E17W	E22N	E22C	E22M	E22S
High p	ressure sodiun	n (mo	g/clea	ar)								
70	HX-HPF	21	10	-	1.0	1.3	1.5	1.9	-	-	-	-
100	HX-HPF	21	10	-	1.0	1.4	1.5	1.9	-	-	-	-
150	HX-HPF	21	10	-	1.0	1.3	1.6	1.8	-	-	-	-
200	CWA	22	10	8.0	1.1	1.3	1.5	1.9	-	-	-	-
250	CWA	26	12	8.0	1.1	1.3	1.5	1.9	-	-	-	-
400	CWA	41	19	-	-	_	-	-	0.8	1.1	-	-
400	CWA	39	18	-	-	1.2	1.5	1.9	-	-	-	-
1000	CWA	65	29	-	-	_	-	-	0.8	1.0	-	-
Metal	halide (mog/c	lear)										
175	CWA	22	10	-	1.0	1.4	1.6	2.0	-	-	-	-
250	CWA	24	11	-	1.0	1.3	1.6	1.9	-	-	-	-
400	CWA	31	14	-	-	-	-	-	0.8	1.0	-	-
400	CWA	31	14	-	-	1.4	1.6	1.9	-	-	-	-
1000	CWA	50	23	-	-	-	_	_	-	1.0	1.3	1.6

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted



TFF22 Overall height: 24-3/8 (61.9) Reflectorheight: 17-3/8 (44.1) Diameter: 23 (58.4)



www.lithonia.com, keywords: TE-E17 or TE-E22

Overall height: 24-3/8 (61.9)

Diameter: 17-7/8 (45.4)

Reflector height: 17-3/8 (44.1)



LITHONIA INDOOR HID

364

TH A16 **THA16GL**

Hi-Tek®



Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Open A16 opticals are self cleaning with a ventilated design that carries contaminants out top of reflector. Lensed A16GL optical features a gasketed clear tempered glass lens with hinge and stainless steel latches for easy tool-less access.

Socket - Glazed porcelain, vertically oriented mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). A16GL meets UL lamp rupture containment specifications.

Ordering In	nformation	
Series	Wattage	Optical
TH	High pressure s	odium
THD ¹	70S	A16
	1005	A16
	150S	A16
	2005	A16
	2505	A16
	2505	A16GL
	4005	A16
	4005	A16GL
	Metal halide pro	
	175MP	A16
	200MP	A16
	250MP	A16
	320MP	A16
	350MP	A16
	400MP	A16
	450MP	A16
	Metal halio	
	175M	A16GL
	200M	A16GL
	250M	A16GL

320M

350M

400M

400M

450M

Ballast Voltage Metal halide and high pressure sodium 120 (blank) Standard magnetic ballast 2083,4 CWI Constant wattage isolated **240**3,4,5 MRB Magnetic regulator ballast 277 ~~~ 347 **480**3,4 Pulse start metal halide LLRPSL Linear reactor pulse start TBV7 SCWA Super constant wattage autotransformer LLSCWA Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.



Unitized Distributor Pack

NOTES:

A16GL

A16GL

A16

A16GL

A16GL

- 1 THD consists of TH housing and A16 reflector shipped in one carton. Available with tapped ballast or 480V only. Available only in 400S, 320 MP, 400MP and
- 2 See page 385 for details on protected sockets.
- 3 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, $400 W\,metal\,halide\,or\,high\,pressure\,sodium\,(CWA\,only).$

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted

Example: TH 400MP A16 277 HOCS

Options/Accessories

See pages 386-397, HID lamps are available with luminaires. Consult factory.

Lamp/fixture data							
	Standard	Wei	ight	S/mtg.			
Wattage	ballast	lbs.	kgs.	height			
High pressure sodium (mog/clear)							
70	HX-HPF	12	5	0.9 to 1.8			
100	HX-HPF	13	5	0.9 to 1.8			
150	HX-HPF	14	6	0.9 to 1.8			
200	CWA	14	6	1.1 to 1.9			
250	CWA	17	8	1.1 to 1.9			
400	CWA	25	11	1.1 to 2.0			
Metal halide (r	mog/clear)						
175	CWA	16	7	1.2 to 2.1			
250	CWA	20	9	1.2 to 2.1			
400	CWA	21	10	1.2 to 1.9			



TH A16

Overall height: 17-1/4to 20(43.8to 50.8). Varies with distribution Reflector height: 9-1/2 (24.1)

Diameter: 16(40.6)



TH A16GL Overall height: 17-1/4to 20 (43.8to 50.8). Varies with distribution

Reflectorheight: 10-1/2 (26.7) Diameter: 17-1/4 (43.8)





For high mounting heights that require high efficiencies and horizontal illumination. Ideal for storage areas and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Open A16 optical is self-cleaning with a ventilated design that carries contaminants out top

of reflector. Lensed A16GL optical features a gasketed clear tempered glass lens with hinge and stainless steel latches for easy tool-less access.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for ¾" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C). A16GL meets UL lamp rupture containment specifications.

SH A16 SH A16 GL

Hi-Tek®



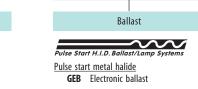
Example: SH 400M A16 208 GEB SC3P

Ordering Information



Wattage	Optical
Metal ha	lide protected ¹
320MP	A16
350MP	A16
400MP	A16
Me	tal halide
320M	A16GL
350M	A16GL
400M	A16GL
400M	A16

Voltage
208 240 277 TVOLT ²



See pages 384-385 for details.

Ont	ions/ <i>E</i>	ccess	ories

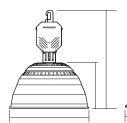
See pages 386-397. HID lamps are available with luminaires. Consult factory.

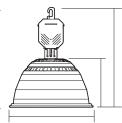
Lamp/fixture data								
Standard Weight S/mtg.								
Wattage	ballast	lbs.	kgs.	height				
Metal halide (m	Metal halide (mog/clear)							
400	GEB	12	5.5	1.2 to 1.9				

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SHA16
Overallheight: 21 to 24-1/4(53.3 to 61.6).
Varies with distribution.
Reflector height: 9-1/2 (24.1)
Diameter: 16 (40.6)

SHA16GL
Overall height: 21 to
24-1/4(53.3 to 61.6).
Varies with distribution.
Reflector height: 10-1/2 (26.7)
Diameter: 17-1/4(43.8)





- $1\quad See page\,385\,for\,details\,on\,protected\,sockets.$
- 2 Tri-voltelectronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only). Pendant splice box (PSB) mounting required.



LITHONIA INDOOR HID

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TH A15

Hi-Tek®



Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Self-cleaning ventilated design that carries contaminants out top of reflector.

Socket - Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - Pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C).

Ordering Information

Series TH THD1

Wattage
High pressure sodium
705
1005
1505
2005
2505
4005
Metal halide protected ²
175MP
200MP
250MP
320MP
350MP
400MP
450MP
Metal halide
400M

Optical A15

2083,4 **240**3,4,5 277 347 **480**3,4 TB⁶ TBV7

120

Voltage

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast Constant wattage isolated MRB Magnetic regulator ballast $\sim\sim$

Pulse start metal halide

LLRPSL Linear reactor pulse start Super constant wattage autotransformer **LLSCWA** Low loss SCWA

RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.

Example: TH 400MP A15 TB

Options/Accessories See pages 384-385. HID lamps are available with luminaires.



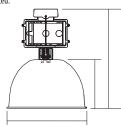
See page11 for details about LightQuick XD.

Description

TH 400M A15 TB

Lamp/fixture data							
	Standard	We	ight	S/mtg.			
Wattage	ballast	lbs.	kgs.	height			
High pressure so	dium (mog/clear)					
250	CWA	17	8	1.5			
400	CWA	25	11	1.5			
Metal halide (mog/clear)							
400	CWA	21	10	1.7			

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,mecha$ configuration. Dimensions are shown in inches (centimeters) unless otherwise



TH A15 Overall height: 250/400S:19-1/2(49.5) 400M:21-1/4(54.0) Reflectorheight: 9 (22.9) Diameter: 14-3/4(37.5)



Unitized Distributor Pack

- 1 THD consists of TH housing and A15 reflector shipped in one carton. Available with tapped ballast or 480V only. Available only in 400S, 320 MP, 400MP and
- See page 385 for details on protected sockets.
- $Requires CWI or RLB \, option \, in \, Canada \, for \, metal \, halide. \, Available \, for \, 175-450W$ only.
- $Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,high\,pressure\,sodium.\,\,Available\,for$ 70-400W only.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada.)
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W and 1000W metal halide (CWA only).



For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles. Steel Ballast Housing (SH) should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

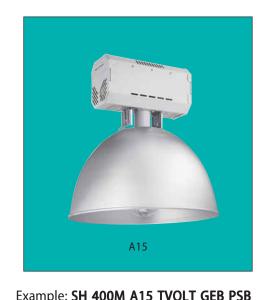
Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for ¾" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40° (High Ambient HA option for 55°C).

SHA15

Hi-Tek®

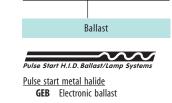


Ordering Information

Series SH



Optical A15 Voltage
208
240
277
TVOLT²



See pages 384-385 for details.

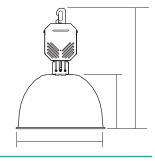
umpic.	<i>J</i> 11	TOUIN	7113	IVOLI	GLD	ייט יי

Options/Accessories
See pages 386-397. HID lamps are available with

Lamp/fixture data					
	Standard	Wei	ght	S/mtg.	
Wattage	ballast	lbs.	kgs.	height	
Metal halide (m	og/clear)				
400	GEB	12	5.5	1.7	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

SH A15 Overall height: 250/4005:19-1/2(49.5) 400M:21-1/4(54.0) Reflector height: 9 (22.9) Diameter: 14-3/4(37.5)

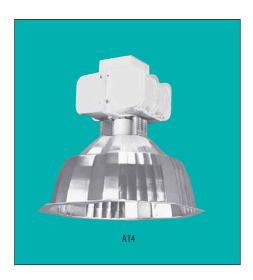


- See page 385 for details on protected sockets.
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.



TH A14

Hi-Tek®



Intended Use

For high-mounting heights that require high efficiencies, horizontal illumination and vertical illumination. Ideal for manufacturing and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cooler opera-

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and vertical illumination.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - Pendant splice box is threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C.)

Example: TH 320MP A14 TB SCWA KW1S

Ordering Information

Series TH

Wattage
High pressure sodium
1505
2005
250\$
4005
Metal halide protected ¹
175MP
200MP
250MP
320MP
350MP
400MP
450MP
Metal halide
400M

Optical A14

Voltage 120 **208**^{2,3} **240**^{2,3,4} 277 347 480^{2,3} TB⁵ TBV⁶

Ballast

Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated Magnetic regulator ballast MRB

Pulse start metal halide

LLRPSL Linear reactor pulse start SCWA Super constant wattage autotrans-

former **LLSCWA** Low loss SCWA RLB Regulated lag ballast

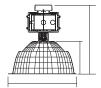
SCWI Isolated SCWA See page 384-385 for details.

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ $configuration. \ Dimensions \ are shown in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise$

Overall height: 17-3/4 to 19-1/2 (45.1 to 49.5). Varies with distribution Reflector height: 8-1/2 (21.6) Diameter: 17-3/4(45.1)



- See page 385 for details on protected sockets.
- $2\quad Requires\,CWI\,or\,RLB\,option\,in\,Canada\,for\,metal\,halide.\,Available\,for\,175-450W$ only
- 3 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W. 400W metal halide and high pressure sodium (CWA only)

	Lamp/fix	ture data		
	Standard	We	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure so	dium (mog/clear)		
150	HX-HPF	16	7	2.7
200	HX-HPF	16	7	2.5
250	CWA	19	9	2.5
400	CWA	27	12	2.5
Metal halide (m	og/clear)			
400	CWA	23	10	2.4



For high-mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing - Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast - Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics - One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and high illumination.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 3/4" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

SH A14

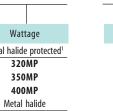
Hi-Tek®

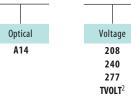


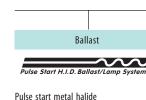
Ordering Information











GEB Electrionic ballast See pages 384-385 for details.

Example:	2H	400M	A14	2//	GFR

Options/Accessories	

See pages 386-397. HID lamps are available with lumi naires. Consult factory.

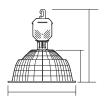
Lamp/fixture data						
Standard Weight S/mtg.						
Wattage	ballast	lbs. kgs.	height			
Metal halide (mo	g/clear)					
400	GEB	12 5.5	2.4			

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ $configuration. \ Dimensions \ are shown in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise$ noted.

NOTES:

- $1\quad \mathsf{See}\,\mathsf{page}\,\mathsf{385}\,\mathsf{for}\,\mathsf{details}\,\mathsf{on}\,\mathsf{protected}\,\mathsf{sockets}.$
- Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant slice box (PSB) mounting required.

SH A14 Overall height: 17-3/4 to 19-1/2 (45.1 to 49.5). Varies with distribution Reflector height: 8-1/2 (21.6) Diameter: 17-3/4(45.1)





TX A20 TX A26

Hi-Tek®



Intended Use

For areas that require good vertical illumination with excellent glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - Injection-molded virgin acrylic lens, fully fluted anodized aluminum reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. All distribution patterns are widespread.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse-rated.

Installation - Pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed -30°C to 40°C ambient operation and damp locations (High Ambient HA option for 55°C). UL wet location available. Meets UL lamp rupture containment specifica-

Example: TX 400M A26 277 SCWA HOCS

Ordering Information

Series	
TX	

Wattage	Optical ¹				
High pressure s	High pressure sodium, 20" diameter				
50\$	A20				
70S	A20				
1005	A20				
150S	A20				
2005	A20				
250\$	A20				
High pressure s	sodium, 26" diameter				
250S	A26				
400S	A26				
Metal hal	ide, 20" diamter				
100M	A20				
150M	A20				
175M	A20				
200M	A20				
250M	A20				
Metal hali	de, 26" diameter				
250M	A26				
320M	A26				
350M	A26				
400M	A26				
450M	A26				

Voltage
120 208 ^{2,3} 240 ^{2,3,4} 277 347 480 ³ TB ⁵ TBV ⁶

	Ballast		
Metal hal	ide and high pressure sodiur		
(blank)	Standard magnetic ballast		
CWI	Constant wattage isolated		
MRB Magnetic regulator ballast			
	<i>─</i> ~~		
Pulse Sto	art H.I.D. Ballast/Lamp System		
Pulse star	<u>rt metal halide</u>		
LLRPSL	Linear reactor pulse start		
SCWA	Super constant wattage		
	autotransformer		
LLSCWA	Low loss SCWA		
RLB	Regulated lag ballast		
SCWI	Isolated SCWA		
	isolatea Sewa		
See pages 3	84-385 for details.		
See pages 3			
See pages 3			

Options/Accessories See pages 386-397. HID lamps are available with luminaires. Consult factory

Lamp/fixture data						
Standard Weight S/mtg.						
Wattage	ballast lbs. kgs.		height			
High pressure sodiu	ım (mog/clear)					
50 (TXL A20)	HX-HPF	11	5	1.9		
70 (TXL A20)	HX-HPF	12	5	1.8		
100 (TXL A20)	HX-HPF	14	6	1.9		
150 (TXL A20)	HX-HPF	15	7	1.9		
200 (TXL A20)	CWA	17	8	1.9		
250 (TXL A20)	CWA	21	9	1.7		
250 (TXL A26)	CWA	29	13	2.0		
400 (TXL A26)	CWA	37	17	2.0		
Metal halide (med	(100) mog/clear	.)				
100 (TXL A20)	CWA	16	7	1.8		
175 (TXL A20)	CWA	17	8	1.8		
250 (TXL A20)	CWA	20	9	1.7		
250 (TXL A26)	CWA	25	11	2.2		
400 (TXL A26)	CWA	32	15	2.2		

- Replace A in optical nomenclature with P for polycarbonate lens.
- 2 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W metal halide and high pressure sodium (CWA only).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TX A20 Overall height: 21-3/8 (54.3) Reflectorheight: 14-1/2 (36.2) Diameter: 20-3/4(52.7)



TX A26 Overall height: 24-3/8(61.9) Reflectorheight: 17-1/16 (43.3) Diameter: 27-1/2 (69.9)





For areas that require high efficiencies, high horizontal and vertical illumination and good glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minmum of class H insulation.

Optics – Injection-molded virgin acrylic lens, fully fluted, anodized aluminum reflector; exclusive spun-fluted anodized reflector. Hinge and lens retainer latches facilitate tool-less removal for

maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. All distribution patterns are widespread.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse-rated.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed. CSA Certified. NOM Certified. UL Listed -30°C to 40°C ambient operation and damp locations (High Ambient HA option for 55°C). UL wet location available. Meets UL lamp rupture containment specifications.

TX A30

Hi-Tek®



Example: TX 400M A30 TB SCWA

Ordering Information

Series
TX

Wattage
High pressure sodium
250\$
4005
Metal halide
175M
200M
250M
320M
350M
400M
450M

Optical 0	Voltag
A30 ¹	120 208 ² , 240 ² , 277 347 480 ³ TB ⁵

e		Ballast
	Metal halid	le and high pressure sodium
3	(blank)	Standard magnetic ballast
,4	CWI	Constant wattage isolated
	MRB	Magnetic regulator ballast
		\sim
	Pulse Star	t H.I.D. Ballast/Lamp System.
	<u>Pulse start</u>	metal halide
	LLRPSL	Linear reactor pulse start
	SCWA	Super constant wattage
		autotransformer
	LLSCWA	Low loss SCWA
	RLB	Regulated lag ballast
	SCWI	Isolated SCWA
	6	1-385 for details.

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

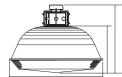
Lamp/fixture data					
	Standard	Weight		S/mtg.	
Wattage	ballast	lbs.	kgs.	height	
High pressure sodium (mog/clear)					
250	CWA	26	12	2.0	
400	CWA	31	14	2.0	
Metal halide (mog/clear)					
250	CWA	26	12	2.1	
400	CWA	28	13	2.1	

NOTES:

- 1 Replace **A** in optical nomenclature with **P** for polycarbonte lens.
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50Hz and 60Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W metal halide and high pressure sodium (CWA only).

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$

*TX A30*Overall height: 22-1/4(56.5)
Reflectorheight: 15-1/4(38.7)
Diameter: 30-3/4(78.1)





TX A23

Hi-Tek®



Intended Use

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants.

Socket - Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. Meets UL lamp rupture containment specifications. UL Listed for damp locations. Ambient operation:-30° to 40°C (High Ambient HA option for 55°C). UL wet location available.

Ordering Information

Series

TX

TXD

Wattage
High pressure sodium
250S
400S
Metal halide
175M
200M
250M
320M
350M
400M

450M

Optical
A23 ²

Voltage
120
208 ^{3,4}
240 ^{3,4,5}
277
347
480 ^{3,4}
TB ⁶
TBV ⁷

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated

MRB Magnetic regulator ballast

Pulse start metal halide

LLRPSL Linear reactor pulse start **SCWA** Super constant wattage autotransformer

LLSCWA Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA

See pages 384-385 for details.

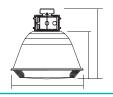
Lamp/fixture data				
	Standard	We	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure sodium (mog/clear)				
250	CWA	23	10	1.6
400	CWA	29	13	1.6
Metal halide (mog/clear)				
250	CWA	21	10	1.7
400	CWA	25	11	1.7

Example: TX 400M A23 TB SCWA

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory





Drawings are for dimensional detail only and may not represent actual mechanical $configuration. \ Dimensions are shown in {\it inches (centimeters)} unless otherwise$





See page11 for details about LightQuick XD.

Description

TX 250M A23 TB TX 400M A23 TB

- 1 TXD consists of TX housing and A23 optical assembly shipped in one carton. $A vailable\,with\,tapped\,ballast\,or\,480 V\,only.\,A vailable\,only\,in\,250 M, 320 M\,and$
- Replace A in optical nomenclature with P for polycarbonte lens.
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W. 400W metal halide and high pressure sodium (CWA only)



For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Steel ballast housing should be used in areas with minimal airborne contaminants. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatability Chart on page 735 for suitable uses.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics – Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retain-

er latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants.

Socket – Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for $^3/_4$ " conduit also available with mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. Meets UL lamp rupture containment specifications. UL Listed for damp locations. Ambient operations: -30°C to 40°C (High Ambient HA option for 55°C).

SX A23

Hi-Tek®

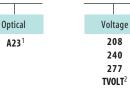


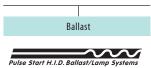
Ordering Information

Series **SX**









Pulse start metal halide
GEB Electrionic ballast
Seepages384-385fordetails.

Example: SX 400M A23 TVOLT GEB PSB

Options/Accessories
See pages 386-397. HID lamps are available with luminaires. Consult factory.

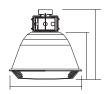
	Lamp/fixture data				
	Standard Weight			S/mtg.	
	Wattage	ballast	lbs.	kgs.	height
Γ	Metal halide (mog/clear)				
	400	GEB	12	5.5	1.7

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

NOTES:

- Replace A in optical nomenclature with P for polycarbonte lens. HID lamps are available with luminaires. Consult factory.
- Tri-voltelectronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only). Pendant splice box (PSB) mounting required.

SXA23 Overall height: 23-1/2 (59.7) Reflector height: 15-1/4 (38.7) Diameter: 23 (58.4)





TXF A30F TXF PA25ALEF

Acrylume® and Hi-Tek®



Intended Use

For general area illumination of food processing and hose-down areas requiring high efficiencies, horizontal illumination, premium glare control, ease of cleanability, compliance to FDA/USDA requirements and/or NSF splash-zone certification. For more NSF information, see page 733. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Fully gasketed, heavy-duty, die-cast copper free (<0.4%) aluminum ballast housing. Finish meets FDA CFR 21 175.300 for resinous and polymeric coatings. Electrostatically applied white polyester powder paint. Electical components heat-sinked and horizontally opposed. External hardware is stainless steel or corrosion-resistant with no exposed threads.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – PA25ALEF: Enclosed and gasketed, injection-molded, UV stabilized, virgin acrylic reflector and flat lens. A30F: anodized aluminum and UV-stabilized virgin acrylic lens. Gasketed reflector and lens inhibit entrance of contaminants.

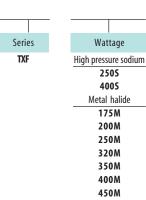
Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for -30°C to 55° C ambient operation and wet locations. NSF International certified splash-zone and meets FDA/USDA guidlines. Meets UL lamp rupture containment specifications. A30F is IP65 rated against ingress of water and contaminants and is suitable for high-pressure hose-downs up to 1200 psi.

Ordering Information



Optical	
PA25ALEF A30F	

Voltage
120
208 ^{1,2}
240 ^{1,2,4}
277
347
480 ²
TB ³
TBV ⁵

	ide and high pressure sodium		
(blank)	Standard magnetic ballast		
CWI	Constant wattage isolated		
MRB	Magnetic regulator ballast		
Pulse Sta	art H.I.D. Ballast/Lamp Systems		
Pulse star	rt metal halide		
LLRPSL	Linear reactor pulse start		
SCWA	Super constant wattage		
autotransformer			
LLSCWA	Low loss SCWA		
RLB	Regulated lag ballast		
SCWI	Isolated SCWA		
See pages 3	84-385 for details.		

Ballast

Example: TXF 400M A30F TB LLSCWA

Options/Accessories

See pges 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data					
	Standard	Weight	S/mtg.		
Wattage	ballast	lbs. kgs.	height		
High pressure sodium (mo	og/clear)				
250 (TXF PA25ALEF)	CWA	39 18	1.1		
250 (TXF A30F)	CWA	26 12	2.0		
400 (TXF PA25ALEF)	CWA	39 18	1.1		
400 (TXF A30F)	CWA	31 14	2.0		
Metal Halide (mog/clear)					
250 (TXF PA25ALEF)	CWA	35 16	1.2		
250 (TXF A30F)	CWA	26 12	2.1		
400 (TXF PA25ALEF)	CWA	35 16	1.2		
400 (TXF A30F)	CWA	28 13	2.1		

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$

TXFA30F
Overall height: 22-1/4(56.5)
Reflector height: 15-1/4(38.7)
Diameter:30-3/4(78.1)

TXF PA25ALEF Overall height: 26-3/8 (66.9) Reflector height: 15-3/8 (38) Diameter: 25-3/4 (65.4)



NOTES:

- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- 2 Requires CWI or MRB option in Canada for high pressure sodium. available for 70-400W only.
- ${\small 3}\quad Optional \, multi-tap \, ballast \, (120 V, 208 V, 240 V, 277 V; 120 V, 277 V, 347 V in Canada).$
- 4 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400 W, 1000W metal halide and high pressure sodium (CWA only).



www.lithonia.com, keywords: TXF-PA25ALEF and TXF-A30F

For areas that require high vertical illumination and wide spacings. Ideal for aisles, service areas and parking garages. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – 12" diameter (A125, A121): Anodized aluminum reflector with one-piece injection-molded acrylic or polycarbonate refractor and bottom enclosure. 16" diameter (A165, A162): High efficiency, optical-quality, white polyester powder finish with one-piece injection-molded acrylic or polycarbon-

ate refractor and bottom enclosure. Consult factory. Type I and II: Asymetrical long and narrow distribution. Type V: Symetrical circular distribution. OB optics are open bottom.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations and -30°C to 40°C ambient operation (High Ambient HA option for 55°C). UL wet location available, closed bottom only. Meets UL lamp rupture containment specifications (except OB open bottom optics).

TX A121/A125 TX A162/A165

Hi-Tek®



Example: TX 150S A125 277 HC3P

Ordering Information

Series
TX

Wattage	Optical ³ (s	select one)	
High pressure sodium, 12" diameter			
	Type V	Type I	
70S	A12	A121	
1005	A125	A121	
150S	A125	A121	
200S ²	A1250B	A1210B	
250S ²	A1250B	A1210B	
Me	tal halide, 12″ diam	eter	
	<u>Type V</u>	<u>Type I</u>	
100M	A125	A121	
High pr	essure sodium, 16" d	liameter	
	<u>Type V</u>	Type II	
2005	A165	A162	
2505	A165	A162	
400S ²	A1650B	A1620B	
Metal halide protected, 16" diameter ¹			
	<u>Type V</u>	Type II	
320MP ²	A1650B	A1620B	
350MP ²	A1650B	A1620B	
400MP ²	A1650B	A1620B	
450MP ²	A1650B	A1620B	
Metal halide, 16" diameter			
	<u>Type V</u>	Type II	
100M	A165 A		
150M	A165	A162	
175M	A165	A162	
200M	A165	A162	
250M	A165	A162	
400M ²	A1650B	A1620B	

Voltage
120
208^{4,5}
240^{4,5,6}
277
347
480^{4,5}
TBV⁸

Metal halide and high pressure sodium
(blank) Standard magnetic ballast

CWI Constant wattage isolated

MRB Magnetic regulator ballast

Pulse Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

LLRPSL Linear reactor pulse start

SCWA Super constant wattage
autotransformer

LLSCWA Low loss SCWA

RLB Regulated lag ballast SCWI Isolated SCWA Seepages384-385 fordetails.

NOTES:

- 1 See page 385 for details on protected sockets.
- 2 Open bottom only
- 3 Change Ain nomenclature to P. Example: P125. All except open-bottom fixtures meet UL lamp rupture containment specifications.
- 4 Requires CWI option in Canada for metal halide. Available for 175-400W only. Not available for 250W in 480V.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide
- and high pressure sodium lamps.

 7 Optionalmulti-tapballast(120V, 208V, 240V, 277V; 120V, 277V, 347VinCanada).
- Optional final ti-tap ballast (120V, 208V, 240V, 277V, 120V, 277V, 347V in Canada).
 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

www.lithonia.com, keywords: <u>TX-A121</u>, <u>TX-A125</u>, <u>TX-A162</u> and <u>TX-A165</u>

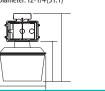
Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

	Lamp/fixtu	re data			
	Standard	Wei	ght	S/mtg.	
Wattage	ballast	lbs.	kgs.	height	
High pressure s	odium (mog/clear)	, 12", Typ	oe V		
70	HX-HPF	15	7	1.8	
100	HX-HPF	17	8	1.8	
150	HX-HPF	17	8	1.8	
200	CWA	20	9	2.7	
250	CWA	23	10	2.6	
High pressure s	High pressure sodium (mog/clear), 16", Type V				
200	CWA	22	10	1.9	
250	CWA	25	11	2.6	
400	CWA	36	16	1.8	
Metal halide (m	Metal halide (med/clear), 12", Type V				
100	CWA	15	7	1.8	
Metal halide (med (100) mog/clear), 16", Type V					
100	CWA	20	10	1.3	
175	CWA	21	10	1.3	
250	CWA	23	10	1.3	
400	CWA	30	14	1.8	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted

TX A125/A121 Overall height: 17 (43.2) Reflector height: 10 (25.4) Diameter: 12-1/4(31.1) TX A165/A162 Overall height: 19-5/8 (49.8) Reflector height: 13-5/8 (34.6) Diameter: 16-3/4 (42.6)





LITHONIA INDOOR HID

376

TGL TGR



Intended Use

For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Induction lighting: High Frequency Generator/Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

Optics – One-piece, injection-molded, 100% virgin acrylic refractor. TGL Type V (A165), Type II

(A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. Mediumbase (100M only): UL Listed 660W, 600V, 4KV pulse rated.

Discharge Vessel/Lamp – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.

Ordering Information

			<u> </u>
Series	Wattage	0	ptical ²
High pressure sodium		Type V	Type II
TGL	705	A165	A162
	100S	A165	A162
	150S	A165	A162
TGR	705	A125	A121
	100S	A125	A121
	150S	A125	A121
Metal halide			
TGL	100M	A165	A162
	175M	A165	A162
	200M	A165	A162
	250M ¹	A165	A162
TGR	100M	A125	A121
	175M	A125	A121
Induction			
TGL	85IL	A165	A162
	55IL	A165	A162

Voltage Ballast 120 Metal halide and high pressure sodium (blank) Standard magnetic ballast 2083,4 **240**^{4,5} 277 Pulse start metal halide 347 LLRPSL Linear reactor pulse start 480⁴ **SCWA** Super constant wattage TB^6 autotransformer See pages 384-385 for details.

NOTES:

- 1 Not available with SCWA.
- 2 Polycarbonatelens: Replace A in optical nomenclature with P for polycarbonte lens.
- 3 Requires CWI option in Canada. Only available in 250M.
- 4 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-150W.
- 5 220V and 240V, 50Hz and 60Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

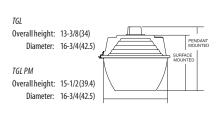
Example: TGL 175M A165 TB PM

Consult factory

Options/Accessories
See pages 386-397. HID lamps are available with luminaires.

	Lamp/fi	xture data	1	
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
	TGL	Type V		
High pressur	e sodium (mog/	<u>'clear)</u>		
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
Metal halide	[med(100)/mo	g(175-25	0)/cle	<u>ar]</u>
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
	TGR	Type V		
High pressure sodium (mog/clear)				
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
Metal halide [med(100)/mog(175)/clear]				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

 $Drawings\ are\ for\ dimensional\ detail\ only\ and\ may\ not\ represent\ actual\ mechanical\ configuration.\ Dimensions\ are shown\ in\ inches\ (centimeters)\ unless otherwise noted.$



TGR Overall height: 11 Diameter: 12	. ,	PENDANT MOUNTED
TGR PM Overall height: 13 Diameter: 12	. ,	SURFACE MOUNTED

Ambient Parameters	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TGR			
TGL 100-175M			
TGL 250M			
TGL 70-150S			
TGL 55-85IL			
	•		= COMPATABILITY



For areas that require low mounting heights. Used in applications including parking garages, stairwells, entrances or aisles.

Features

Housing - Rugged, heavy-duty aluminum housing. Standard finish is dark bronze polyester pow-

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - One-piece, spun-aluminum, anodized reflector provides widespread distribution. High-impact, shock-resistant, tempered glass lens is fully gasketed to seal out contaminants.

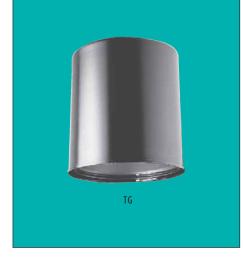
Socket - Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. Medium-base: UL Listed

660W, 600V, 4KV pulse rated; mogul-base: UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamperproof installation. Internal trigger mechanism releases fixture from J-box. Factory-installed pendant mount option (PSB) available.

Listings

UL Listed. CSA Certified. NOM Certified. UL Listed for damp locations.



Ordering Information

Series **Optical** Wattage TG E13 High pressure sodium, wide distribution **70S** 100S 150S 2005 Metal halide 100M¹ 175M 200M 250M

Voltage **208**¹ **240**^{1,2} 277 347 480 TB^3

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated

Options/Accessories

Example: TG 175M E13 TB PSB

See pages 386-397. HID lamps are available with luminaires. Consult factory.

Pulse start metal halide

LLRPSL Linear reactor pulse start

SCWA Super constant wattage autotransformer

LLSCWA Low loss SCWA

See pages 384-385 for details.

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TG 175M			
TG 250M			
TG 70-150S			
TG 200S			

Overall height: 13-5/8 (34.6)

= COMPATABILITY

Overall height: 15 (38.1)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted. TG (PSR)

Diameter: 13-1/2 (34.3)	Diameter: 13-1/2 (34.3)

	Lamp	/fixture data	l	
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressu	re sodium (mog/c	lear <u>)</u>		
70	HX-HPF	13	6	1.8
100	HX-HPF	15	7	2.2
150	HX-HPF	16	7	2.5
200	CWA	19	9	1.7
Metal halid	e (med/mog(175-	<u>-250)/clear)</u>		
100	CWA	15	7	2.2
175	CWA	17	8	2.2
250	CWA	19	9	2.2

NOTES:

- 1 Not available in Canada.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada)

A LITHONIA LIGHTING

Parabolic Louvers



Intended Use

Use in recessed hard ceiling and T-bar applications that require optimum horizontal illumination with superior brightness control and lamp shielding. Ideal for open office, retail and commercial areas.

Features

Optics - Specular clear parabolic 16-cell or 9cell, 4" deep aluminum louvers float in the middle of a black reveal with tempered glass overlay. Louver door attached with T-hinges and spring loaded latches for positive retention. Coated lamps provide optimum performance.

Housing - 20-gauge steel housing with high reflectance, white polyester paint.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Socket - Mogul-based porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - 2' nominal aperture. Power door contains all electrical components. Pre-wired 7', 16-guage leads and 90° connector, no flex. Power door swings down for easy access or can be removed for servicing. Overlapping flange kit (GF-KIT) available for non-T-Bar applications.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

Ordering Information

Se	ries	Wattage ¹
GPV Ver	rtical lamp	Metal halide
		175M 200M ² 250M 320M ² 350M ² 400M

NOTES:

- 1 Mogul-base lamps required. Coated lamps recommended
- 2 Available only when ordered with pulse start ballast.
- Multi-tap ballast. US: 120V, 208V, 240V, 277V; Canada: 120V, 277V, 347V.

Specular louver	Voltage
16 cells 16AGL Specular clear with glass overlay 9 cells 9AGL Specular clear with glass overlay	120 208 240 277 347
To order, use single master catalog number. Example: (21) GPV 175M 9AGL 120 Housings and door assemblies ship separately in unit cartons Frample shove thins as:	TB ³

Ballast

Example: GPV 400M 9AGL 120

Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated

Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer **LLSCWA** Low loss SCWA

See pages 384-385 for details.

Options/Accessories See page 379. HID lamps are available with luminaires. Consult

SCWI Isolated SCWA

Round Reflector



Intended Use

GPV175MGL120 HSG (21 cartons of 1 housing)

GP 9A U (21 cartons of 1 door assembly)

(Qty21)

(Qty21)

Use in recessed hard ceiling and T-bar applications that require downlight illumination with brightness control. Ideal for recreation facilities, retail and other commercial areas.

Features

Housing – Square steel pan finished in polyester matte white powder paint.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Optics - One-piece, semi-specular, spun aluminum reflector. Exclusive design with extended shielding provides wide distribution with mini-

mal brightness. White painted steel door assembly with clear tempered glass lens, retention hinge and latch. Coated lamps provide optimum performance.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

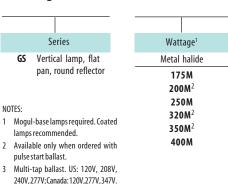
Installation – Electrical components factory assembled to the pan and ready to lay in a 2'x2' grid ceiling. Pre-wired 7', 16-gauge leads and 90° connector, no flex.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

Example:

Ordering Information



Voltage Ballast 120 Metal halide and high pressure sodium 208 (blank) Standard magnetic ballast 240 CWI Constant Wattage Isolated Pulse start metal halide 277 LLRPSL Linear reactor pulse start 347 Super constant wattage TB^3 autotransformer

LLSCWA Low loss SCWA SCWI Isolated SCWA

See pages 384-385 for details.

Options/accessories See page 379. HID lamps are available with luminaires Consult factory

GS 175M 120



Use in hard ceiling and T-bar applications with low mounting heights that require optimum horizontal illumination with brightness control. Ideal for office, retail and commercial areas. Prismatic tempered glass lens with polycarbonate underlay suitable for gymnasiums and racquetball courts.

Features

Optics – Anodized aluminum top reflector. Door assemblies available with choice of prismatic tempered glass, prismatic acrylic and tempered prismatic glass with polycarbonate underlay. Door attaches to housing with T-hinges and two opposing cam latches for positive retention. G3V series rough service door assembly secured by additional four screws.

Housing - 20-gauge steel housing with high reflectance, white polyester paint.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Socket - Mogul-based porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - 2x2 lay-in housing design with power door containing all electrical components. Pre-wired 7', 16-guage leads and 90° connector, no flex. G2V power door swings down for easy access or can be removed for servicing. G3V uses four Philips flathead retaining screws for positive retention. Overlapping flange kit available (GFKIT) for non-T-Bar applications.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

Prismatic Lenses

Options/Accessories See below. HID lamps are available with luminaires. Consult factory.



G2V 400M FS T73 120 Example:

Ordering Information

Series	Wattage ¹			
G2V	Metal halide			
G3V	175M 200M ²			
	250M			
	320M ²			
	350M ²			
	400M			

RW FW FS	Regressed white aluminum Flush white aluminum Flush white steel ³		
	Door	frames	
	G2V	G3V	
RW	Option	Option	
FW	Option	Standard	
FS	Standard	N/A	

Door frame

		\Box
	Shielding	Volta
T73	Tempered prismatic	120
	glass lens	208
84YGL	Holophane#8224Y	240
	acrylic lens with	277
	tempered glass	347
	overlay	TB ⁵
A12GL	Prismatic acrylic lens with tempered glass	
	overlay	

T73/PCL	Tempered prismati
	glass lens with
	polycarbonate
	underlay ⁴

	Ballast
Metal halid	le and high pressure sodiu
(blank)	Standard magnetic ballast
CWI	Constant wattage isolated
Pulse Start	H I D Ballast/Lamp System

Pulse start metal halide

LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer **LLSCWA** Low loss SCWA

SCWI Isolated SCWA See pages 384-385 for details.

- Mogul-base lamps required. Coated lamps recommended.
- 2 Available only when ordered with pulse start ballast.
- 3 Available with G2V luminaires only.
- Available with G3V luminaires only.
- Multi-tap ballast. US: 120V, 208V, 240V, 277V; Canada: 120V, 277V, 347V.

G Series Options

Series	Description	Sh	ips	G2V	G3V	GPV	GS
		Attached	Separately				
TRW	White flange trim, baked-on satin enamel finish	Х		STD	STD		
QFC	Quick-Flex®	Х		Х	Χ	Χ	Х
SF	Single fuse,120/277/347V only, N/A multi-tap ballast	Х		Х	Χ	X	X
DF	Double fuse, 280/240/480V only, N/A multi-tap ballast	Х		Х	Χ	X	X
QRS	Quartz restrike system (D.C. base)	Χ		Х	Χ	X	Χ
QRSTD	Quartz restrike system with time delay	Х		Х	Х	Х	Х
EC	Emergency circuit (D.C. base)	Χ		Х	Χ	Х	Χ
TA	Top access	Х		Х	Χ	Х	
PWS1436	Prewire with 14-gauge THHN leads, 6' flex	Χ		Х	Χ	Х	Χ
SCWA	Super CWA pulse start ballast	Χ		Х	Χ	Х	Χ
LLRPSL	Linear reactor pulse start ballast	Χ		Х	Χ	Х	Χ
KW1	KiloWatch® 120V control relay, 50% wattage reduction	Χ		Х	Χ	Х	Χ
KW4	KiloWatch® 277V control relay, 50% wattage reduction	Χ		Х	Χ	Х	Χ
KW150	KiloWatch® 120V control relay, 50% light (lumen) reduction	Χ		Х	Χ	Х	Χ
KW450	KiloWatch® 277V control relay, 50% light (lumen) reduction	Χ		Х	Χ		Χ
TCPF	Plaster frame		Х	1	1		
HTC	Earthquake clips		Х	2	2	2	2
WG12	Wireguard (for grid ceiling)		Х	2	2	2	2
GPFKIT	Flange kit		Х			X	
GFKIT	Flange kit		Х	Х	Х		

NOTES:

Available flange trim units G2V and G3V only. Available T-bar ceiling units only.



DSA FSSA

Intended Use

Ideal for illuminating the interior of tractor trailers during initial inspection, loading or unloading.

Features

Construction - Arms and struts constructed of heavy-duty 1-1/2" cross-section, 14-gauge square steel tubing. Reinforcement mounting brackets provide maximum support of arm and head for



long service without sagging or bending. Hinged ends reinforced internally with aluminum inserts. Corrosion-resistant hardware. Nuts are locking and exposed threads are plastic capped. Arm and strut ends feature injection-molded end caps.

Finish – Safety-yellow polyester powder paint is standard on arm, strut and metal lamp head. Polycarbonate lamp heads colored safety yellow.

Electrical System: 120V only. Provided with threeprong plug and 8' cord. Lamp head includes on/off switch and porcelain medium-base socket with copper alloy screw shell and center contact. Electrical cord lengths secured via grommets. high pressure sodium models feature reactor type bal-

Optical System - Lamp head for 150W incandes-



cent is polycarbonate and metal for 300W incandescent. Both include metal wireguard standard. Polycarbonate 50W high pressure sodium lamp head with reflective coating, integral ballast and flush polycarbonate guard. Optional SED acrylic lens suitable for use in food service dock areas.

Installation – Arm and strut-mounting bracket included. Arm assembly attaches to wall mounting bracket with single bolt. Lamp head attaches with a single bolt to arm and is powered by a NEMA plug and receptacle assembly in arm. Heavy-duty wall bracket (HDWB) recommended for fan/light combinations.

Listings

Listings - UL Listed to U.S. and Canadian safety standards.



Ordering Information

	Series		Ler	ngth
DSA	Double-strut arm		24	24"
			40	40"
			60	60"
			90	90"
			114	114"
FSSA	Folding single-strut arm	1	40	40"
			60	60"

- Required for FSSA. Optional for DSA. Not available with DSA24, DSA114.
- 2 Vacuum metalized polycarbonate lamp head. 90" maximum length.
- 3 Available for 50S high pressure sodium only.
- 4 Heavy-duty wall bracket (HDWB) recommended. For fan and DSA arm without lamp head, leave "Lamp" field blank.
- 5 Standard in 50S models. Not available for incandescent.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Knuckle Adjustable knuckle joint¹



wise noted.		50W high pressure sodium
DSA Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Arm length: 26 to 95-1/4 (66.0to 23.5)	DSA ADJ Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Arm length: 40 to 96-1/4 (101.6to 244.5)	FSSA ADJ Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Arm length: 47-3/4to 96-1/4(121.3to 244.5)



	Lamp
1501	150W incandescent polycarbonate lamp head with wireguard
3001	300W incandescent metal lamp head with wireguard
50\$	50W high pressure sodium polycarbonate lamp head with polycarbonate guard ²

	Options
SED	Special environment diffuser (acrylic lens) ³
FAN LPI	3-speed fan ⁴ Lamp included ⁵



300W incandescent

Acc

cessories	(Order separately)
DLMAG KIT	Portable magnetic mounting kit for lamp heads. Includes magnet, 6' cord adaptor and hardware.
FAN	3-speed fan. ⁴
HDWB	Heavy-duty wall bracket.
MLH	300W incandescent metal lamp head with wireguard.
PLHI	150W incandescent polycarbonate lamp head with wireguard.
PLHS	50W high pressure sodium polycarbonate lamp head with polycarbonate guard. ²
MLHWG6	Replacement wireguard for 300W incandescent metal lamp head.
PLHWG8	Replacement wireguard for 150W incandescent polycarbonate lamp head.
PLHPG	Replacement polycarbonate guard for 50W high- pressure sodium polycarbonate lamp head.
SED	Special environment diffuser (acrylic lens). 3



The KiloWatch® II Integral Sensor System provides individual luminaire dual-level lighting control for maximum energy savings and flexibility. Each luminaire contains an integral sensor that mounts directly to the reflector. Application opportunities include warehouses or select storage areas within manufacturing facilities.

Features

Integral passive infrared motion sensor mounts to the reflector and connects to the ballast housing with flexible metal conduit to control one luminaire based on occupancy. Sensor detects moving temperature differentials against background radiation. When motion is detected, luminaire is switched to high mode for 1.25 to 20 minutes (field adjustable) after motion no longer is detected. Sensor includes timing circuit for automatic high mode start up of lamp for 20 minutes. A self-timing, 100-hour high-mode burn function is field-activated for initial operation of a new lamp.

Sensor is designed for use in indoor applications with 15' to 45' mounting heights. Sensor provides 360° of coverage within the luminaire's lighting distribution. Standard operating temperature range from 14°F to 131°F (-10°C to 55°C). Low temperature option (LT) range from -40°F to 131°F (-40°C to 55°C).

KiloWatch II options listed below only are available with CWA/SCWA ballast configurations. The

1000MP

desired option must be designated in the luminaire catalog number Options field.

TH/TX Series

KW1S - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaire supplied with motion sensor control and sensor mounting

KW1S LT - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaire supplied with motion sensor control for low temperature and sensor mounting bracket.

SH/SX/SPG Series

ISM - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaires supplied with motion sensor control and sensor mounting bracket. For GEB electronic ballast only.

Listings

UL Listed to U.S. and Canadian safety standards. Not for use with dual wattage rated lamps. Lamp manufacturer requires 100 hours high-mode burn-in of new lamps prior to low-mode operation and 15 to 20 minutes of high-mode operation thereafter upon start-up.

KiloWatch® II



Example: TH 400M PA22 120 KW1S

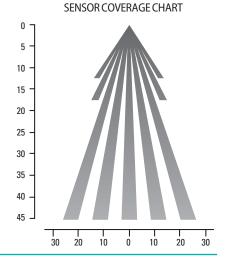
Ordering Information

Series	Wattage		0	ptical	Voltage		Ballast
TE TH TX	High pressure sodium 1505 2505 4005 1000S Metal halide protected ¹ 175MP	Metal halide 175 M 200 M 250 M 320 M 350 M 400 M	E17 E22 A15 A16 A17 A22 A14	A125 A165 PA16 PA22 PA22C PA22SP PA25ALE	120 208 240 277 347 480	Pulse sta SCWA	H.I.D. Ballast/Lamp Systems rt metal halide Super constant wattage autotransformer es 384-385 for details.
	200MP 250MP 320MP 350MP 400MP 450MP	450M 1000M	A26 A30 A23 A20	PA25D PA22GLE PA22N	NOTES: 1 Seepag 2 50%po	e 385 for detai	Is on protected sockets.

Series	Wattage	Optical	Voltage	Ballast	Options/A	ccessories
SH SX SPG	Metal halide protected ¹ 320MP 350MP 400MP Metal halide	A15 A16 A16GL A23 PA22	208 240 277 TVOLT	Pulse start metal halide GEB Electronic ballast	ISM ² SF DF EL QRSTD	OCS HA PSB SC3P WG
	320M 350M	PA22N PA22SP PG15	NOTE	S:	See pages for detail	

 $See \,page\,385\,for\,details\,on\,protected\,sockets.$ 50% power

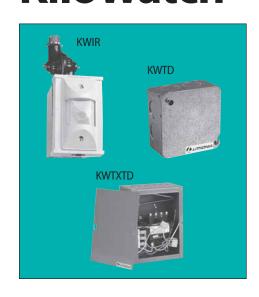
Options Accessories KW152 TOR I CPP HKMG SCK48 DCY KW1S LT² T73 LC3P DHX LC3P SCK108 SMB18 SF CR HC3P DS_Q LGG DF CRT HOCS **FWG** LPF SMB24 ORS TEF HOCU **GFWG** I PM **TMB30 QRSTD** TR LOCS HC3P LPMG **TMB48** EC **SCWA** LOCU HKF PPH WG GL RC3NP CF HKM TPH WGG SCK





www.lithonia.com, keyword: KW

KiloWatch®



Intended Use

KiloWatch® dual-level HID luminaire option provides capability to switch ballast between high mode and low mode operation. Choose from 100% to 50% power operation or 100% to 50% lumen output operation. Luminaires must be combined with motion sensors, photocells and/ or control transformers for complete system. Ideal for energy reduction or light level control in warehouses, storage areas, parking garages, shipping docks and gymnasiums.

Features – Components

KWTD - Time delay control. Solid-state, digital timing circuit automatically provides high mode startup of each lamp for 15 minutes, guaranteeing lamp stabilization. For 120V AC manually switched or 120V AC photocell (KWPC) applications.

KWTXTD - Time delay control voltage transform-

er. Provides 120V AC control circuit power for 208/240/277/347/480V AC applications controlled by photocells or manual switching*. Includes solid-state, digital timing circuit for automatic high mode start-up of each lamp for 15 minutes, quaranteeing lamp stabilization. One KWTXTD required for each on/off control zone of up to 30 fixtures.

KWTX - Control voltage transformer. Provides 120V AC control circuit power for 208/240/347/ 480V AC applications in conjunction with KWIR motion sensors. High mode start-up of each lamp for 20 minutes performed by KWIR sensors. One KWTX required for each on/off control zone of up to 30 fixtures.

KWIR - Passive infrared motion sensor. Switches 120V or 277V control relays in each lighting fixture based on occupancy. Sensor detects moving temperature differentials against background

Manual Controls

shipped separately

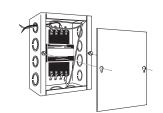


System for 120V AC (one component)

Time delay control, manually switched. Automatic timer keeps fixtures in high mode for 15 minutes after start-up. 1

Must add KW1 or KW150 to fixture description - 120V control.

Manual control switches and wall boxes by others.

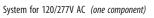


System for 208/240/277/347/480V AC (one component)

Control voltage transformer with time delay. Steps supply voltage down for 120V control. Automatic timer keeps fixture in high mode for 15 minutes after start-up.

Must add KW1 or KW150 to fixture description - 120V

Motion Sensor Controls shipped separately



KWIR Motion sensor^{2,3}

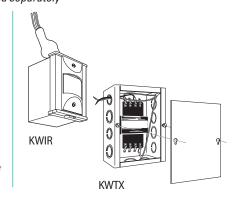
KWIR LT Motion sensor, low temperature (-30°)^{2,3}

KWIR WA Motion sensor, wide angle^{2,3}

Must add KW1 or KW150 to fixture description — 120V control. Must add KW4 or KW450 to fixture description — 277V control.

NOTES:

- 2 Consult factory when using with Reloc® wiring.
- $3\quad Sensors\,have\,automatic timer to\,keep\,fix ture\,in\,high\,mode\,for\,20\,minutes\,after$ start-up.



System for 208/240/347/480V AC (two components)

KWIR Motion sensor^{2,3}

KWIR LT Motion sensor, low temperature^{2,3}

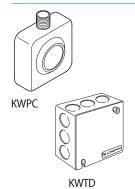
Motion sensor, wide

KWIR WA angle^{2,3}

Control voltage

transformer; steps supply voltage down for 120V control

Must add KW1 or KW150 to fixture description - 120V control.



Photocell Controls shipped separately

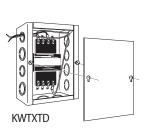
System for 120 AC (two components)

KWPC Photocell

Time delay control; automatic timer keeps fixture in high mode for 15 minutes after start-up

Must add KW1 or KW150 to fixture description — 120V control.





System for 208/240/277/347/480V AC (two components)

KWPC Photocell KWTXTD

description - 120V control.

Control voltage transformer with time delay steps supply voltage down for 120V control; automatic timer keeps fixture in high mode for

15 minutes after start-up

Must add KW1 or KW150 to fixture





radiation. When motion is detected, lighting system is switched to high mode for one to 20 minutes (field adjustable) after motion no longer is detected. Sensor includes timing circuit for automatic high mode start-up for 20 minutes. Sensor is factory-preset at optimum performance angle (43°) and can be field-adjusted. Sensor is designed for use in indoor applications with 15′ to 35′ mounting heights where a long and narrow coverage pattern is desired (14°F to 160°F).

KWIR WA – Same as KWIR sensor with wide angle lens designed for use in indoor applications with 7' to 8' mounting heights where a short, wide coverage pattern is desired (14°F to 160°F).

KWIR LT– Passive Infrared Motion sensor. Same as KWIR sensor designed for low temperature operation (-40°F to 160°F).

KWPC –Photo-diode sensors. Sensors switch luminaires to low output based on predetermined

ambient illumination levels (field adjustable).

Features – Luminaires

KiloWatch options listed below only are available with CWA/SCWA ballast configurations. The desired option must be designated in the fixture catalog number option field.

KW1 – Reduces wattage by 50% (light output reduces by 70-80%). Luminaire supplied with 120V AC control components for use with all manually switched*, KWPC photocell (120/208/240/277/347/480V) or KWIR sensor (120/208/240/347/480V) controlled systems.

KW150 – Reduces light output by 50% (power reduces by 30-40%). Luminaire supplied with 120V AC control components for use with all manually switched*, KWPC photocell (120/208/240/277/347/480V), or KWIR motion sensor (120/208/240/347/480V) controlled systems.

KW4 – Reduces wattage by 50% (light output reduces by 70-80%). Luminaire supplied with 277V AC control components. For use with KWIR motion sensor controlled systems.

KW450 – Reduces light output by 50% (power reduces by 30-40%). Luminaire supplied with 277V AC control components for use with KWIR motion sensor-controlled systems.

Consult factory when using Reloc® with Kilo-Watch®.

Lamp manufacturers require 100 hours high mode burn-in of new lamps prior to low mode operation and 15 to 20 minutes of high mode operation thereafter upon start-up.

Not for use with dual wattage rated lamps.

* Manual switches and wall boxes by others.

Consult factory for field start-up service.

Example: TH 400M A16 277 SCWA KW4

Ordering Information

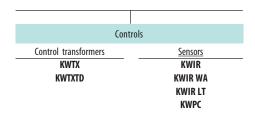
			1
Series	Wattage	0р	tical
TE	High pressure sodium	E17	PA16
TH	150\$	E22	PA22
TPG	25 0 S	A15	PA22C
TPGE	4005	A16	PA22SP
TX	10005	A17	PA25ALE
TGL	Metal halide protected ¹	A22	PA25D
TGR	175MP	A14	PA22GLE
	200MP	A15	PA22N
	250MP	A26	PG16
	320MP	A30	PG16A
	350MP	A23	PG16GLE
	400MP	A20	PG16AGL
	450MP	A30F	PG21
	1000MP ²	A125	PG21A
	Metal halide	A165	PG21GLE
	175M	A1250B	PG21AGL
	200M	A1650B	
	250M		
	320M		
	350M		
	400M		
	450M		
	1000M ²		

oltage	Ballast
120	(blank) CWA
208	
240 277	Pulse Start H.I.D. Ballast/Lamp Systems
347	<u>Pulse start metal halide</u> SCWA Super constant
480	wattage
	autotransformer

NOTES:

- 1 See page 385 for details on projected sockets.
- 2 Not available on 1000W metal halide.
- 3 120V control relay, 50% wattage.
- 4 120V control relay, 50% light output.
- $5\quad 277 V control \, relay for 277 V \, sensor \, applications \, only, 50\% \, wattage.$
- 6 277V control relay for 277V sensor applications only, 50% light output
- 7 Consult factory when using Reloc® with KiloWatch®.

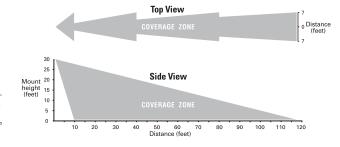
Ordering Information Example: KWIR



KWIRMotion Detector Coverage

 $The sensor coverage shown is under ideal conditions \\ Consult specification sheets for specific information.$

The KWIR-WA mounted at 8' has coverage zone of 120° and distance at 40'.



www.lithonia.com, keyword: KW



Metal Halide and High Pressure Sodium Ballasts

The characteristics of high pressure sodium, metal halide and mercury vapor high intensity discharge lamps require a ballast for controlling voltage and current to operate the lamp at its proper wattage. Lamps that are not operated within the optimal performance range will not produce proper light output or experience full life. There are several ballast types to choose that will provide proper control, but offer differing lamp wattage regulation, voltage dip tolerance, watts loss and cost.

CWA - Constant Wattage Autotransformer Ballast

- Operates metal halide and high pressure sodium lamps
- 175W, 250W, 400W, 1000W metal halide and 100W, 200W, 250W, 400W, 1000W high pressure sodium lamps
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- Voltage dip tolerance; 30%
- Moderate watts loss
- · Two coils with mid-size core
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.7 to 1.8
- Metal halide ballasts rated to operate mercury lamps; 175W, 250W, 400W, 1000W only
- Ideal for manufacturing and assembly type areas, general industrial, recreational and retail

CWI - Constant Wattage Isolated Ballast

- Operates 250W, 400W, 1000W metal halide and 150W, 200W, 250W, 400W high pressure sodium lamps
- Isolated 2-coil system meets Canadian electrical code requirements for 208V and 240V applications in Canada
- Input line voltage 120V, 208V, 240V, 480V
- Voltage dip tolerance; 30%
- Moderate watts loss
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.7 to 1.8
- Adds increased safety during lamp replacement

MRB - Magnetic Regulator Ballast

- Operates 70-400W high pressure sodium lamps
- Isolated 3-coil system meets Canadian electrical code requirements for 208V and 240V applications
- Input line voltage 120V, 240V, 277V, 480V
- Voltage dip tolerance; 50%
- High watts loss
- Excellent regulation $\pm 10\%$ line voltage $/\pm 3\%$ lamp wattage
- · Crest factor 1.5
- Ideal for heavy industrial application or areas with voltage dips and spikes

HX – High Reactance

- Operates 70W, 100W, 150W metal halide and 50W, 70W, 100W, 150W high pressure sodium
- Input line voltage 120V, 277V, 347V
- Low watts loss
- Regulation ± 5% line voltage /±12% lamp wattage
- Crest factor 1.5
- HPF high power factor 90%+ (standard)
- NPF normal power factor 50%+ (available)
- Starting current higher than operating

Pulse Start Metal Halide Ballasts

Pulse start metal halide lamps provide higher lumens per watt and up to 15% better mean lumens than standard probe start lamps with an additional 15% gain in combination with electronic ballasts. These lamps have different operating characteristics that require different ballast designs with an igniter to generate a starting pulse of 2,000 to 3,000 volts. Pulse start lamps will start quicker and reach full brightness sooner during cold and hot starts.

SCWA – Super Constant Wattage Autotransformer SCWI – SCWA Isolated Ballast

- Operates 150W, 175W, 200W, 250W, 320W, 350W, 400W, 450W, 750W, 875W, 1000W pulse start metal halide lamps
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- SCWI isolated 2-coil system meets Canadian electrical code requirements 400W only 120V, 208V, 240V only
- Voltage dip tolerance; 45%
- · Moderate watts loss
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.6
- Ideal for manufacturing and assembly type areas, general industrial, recreational and retail

LLRPSL - Low Loss Reactor Pulse Start Ballast

- Operates 150W, 200W, 320W, 350W, 400W and 450W pulse start metal halide lamps
- Input line voltage 277V only
- Voltage dip tolerance; 25%
- Low watts loss energy saving ballast
- Single coil with smallest core design
- Regulation \pm 5% line voltage $/\pm$ 12% lamp wattage
- Crest factor 1.4 to 1.5
- · Starting current higher than operating
- Energy saver in areas where line dip tolerance is not critical; well suited for retail, light manufacturing, assembly type areas, institutional and recreational

RLB – Regulated Lag Ballast

- Operates 175W, 250W, 400W, 450W pulse start metal halide lamps (450W for 277V only)
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- Voltage dip tolerance; 50%
- High watts loss
- Excellent regulation $\pm 10\%$ line voltage $/\pm 3-7\%$ lamp wattage
- Crest factor 1.5
- Ideal for heavy industrial application or areas with voltage dips and spikes

GEB - Electronic Pulse Start Ballast

- Operates 320W, 350W, 400W pulse start metal halide lamps
- Auto-sensing input line voltage 200V to 277V 50/60Hz
- Voltage dip tolerance; 56%, automatically reduce lamp power 50% for dip below 180V
- Low watts loss energy-saving ballast
- 0-10VDC dimming control 50% to 100% lamp power
- Total harmonic distortion 15% maximum
- Excellent regulation $\pm 10\%$ line voltage $/\pm 0.5\%$ lamp wattage
- Ideal for clean manufacturing and assembly type areas, institutional, recreational and retail



Quieter Operation

= Ontion available

Conventional core and coil ballasts have an inherent hum from magnetic elements generated by the ballast circuit. The level of noise created by the luminaire depends on the ballast design, load characteristics, component mounting in the housing, luminaire mounting and acoustical characteristics of the application area. Encapsulating the ballast reduces the noise level created by the ballast for areas where sound levels are critical.

The GEB electronic pulse start ballast also provides a solution to eliminate ballast noise. The electronic ballast uses electronic circuitry to operate the lamps and does not have a core and coil to create the hum of conventional ballasts. The electronic ballast operates the lamp at a frequency that is beyond the audible range for silent operation .

ENC – Encapsulated Ballast

- Provides quieter operation; not available in all fixtures
- · Class A sound rating up through 175W
- Class B for 250W and 400W

CED	Electroni	a Dudaa	Chart	Dallage
UIFD -	FIRCTION	CPIIICE	SIALL	DAIIAN

- Provides silent operation
- High frequency operation beyond audible range
- See GEB (page 384) for other operating characteristics

	iiuuiu			optic	ii a vai	iabic											
		Ballast selection table															
Series	SH	SPG	SX	TE	TH	THD	TPG	TPGE	TX	TXD	TXF	TG	TGL	TGR	G	GPV	GS
CWA ¹																	
HX ¹																	
CWI																	
MRB																	
LLRPSL																	
SCWA						2				2							
RLB																	
GEB																	

ENC NOTES:

- 1 CWA is standard for 175W and above, and HX is standard for 150W and below for metal halide and high pressure sodium.
- Notavailable on 250W.

Standard

Protected Sockets

Mogul Lamp Socket and Metal Halide Mogul Lamp Base Differences

The 2005 National Electric Code NFPA Code 70 Article 410.73 (F)(5) mandates indoor metal halide luminaires with open rated optics to have a means that will permit the luminaire to operate only with an ANSI Type O lamp. This article requires a protected lamp and socket for installations of open rated metal halide luminaires. The differences between the lamp base and socket types are explained below.

ANSI Type E – Type E metal halide lamps are enclosed rated and only suitable for enclosed luminaires that have a glass lens or plastic lens rated for arc tube containment. These lamps have a standard mogul base design with a broad contact point as shown. Typical for 175-1500W metal halide lamps.

ANSI Type S — Type S metal halide lamps are rated suitable for use in enclosed luminaires or in open luminaires if certain lamp manufacturer operating conditions are followed. These lamps have a standard mogul base design with a broad contact point as shown. The Type S lamp rating is currently applied to metal halide lamps 350W or greater and will be available after January 1, 2005 for replacement of existing lamps.

ANSI Type O – Type O metal halide lamps are open rated protected lamps for use in open or enclosed luminaires. These lamps have "EX" style exclusionary bases designed specifically for operation with pink protected sockets. The mogul bases of these lamps have a narrow contact point designed for protected lamp sockets. Type O lamps most commonly have a cylindrical quartz barrier around the arc tube while some ceramic metal halide arc tubes are wrapped with wire. Typical for 175-1500W metal halide lamps.

Standard Mogul Base Sockets – Standard sockets are constructed of porcelain and are white in color. The center contact tab will accept ANSI Type E, S and O rated lamps. These sockets will continue to be used for metal halide HID lamps in indoor luminaires with enclosed optics.

Protected Mogul Base Sockets – Protected sockets are constructed of porcelain and are pink in color. The center contact tab is surrounded by a barrier that excludes ANSI Type E and S lamps by preventing contact between the center pin on the lamp base and center tab on the lamp socket. Type O rated lamps have a narrow center pin that fits in the barrier to make contact with the center tab. These sockets will be required for indoor HID metal halide luminaires with open optics to comply with 2005 NEC.



Type O – "EX" mogul base



Type E and S mogul base



Type O lamp in white standard mogul socket



Type E and S lamp in white standard mogul socket

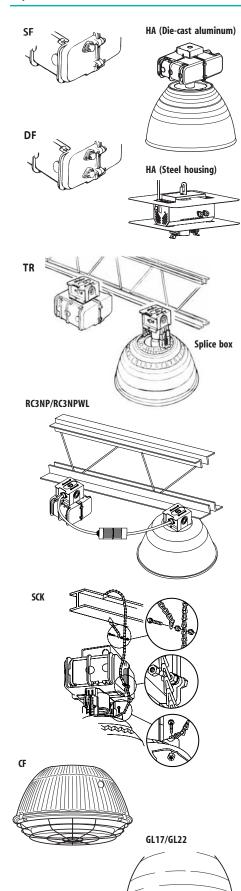


Type O lamp in pink protected mogul socket



Type E and S lamp in pink protected mogul socket





See Option & Accessories matrix on pages 394-395 for compatibility.

Ballast Housing Options & Accessories

- SF Single fuse. Use with 120V, 277V, 347V. Externally accessible in-line fusing isolates luminaire from circuit. Specify tap voltage if combined with multi-tap ballast (TB1=120V, TB4=277V, TB5=34V7) or five-tap ballast (TBV1=120V, TBV4=277V).
- **DF** Double fuse. Use with 208V, 240V, 480V. Externally accessible in-line fusing isolates luminaire from circuit. Specify tap voltage if combined with multi-tap ballast (TB2=208V, TB3=240V) or five-tap ballast (TBV2=208V, TBV3=240V, TBV6=480V).
- **HA** High ambient. Allows the industrial luminaires to be operated in higher ambient temperatures. TX low bay series is 55°C. TH, TE, TPG, TPGE high bay series is 65°C. Large die-cast aluminum ballast housing included for TH, TE, TX, TPG, TPGE. Steel housing SH, SX, SPG series is 55°C and includes external heat shield.
- **WL** Wet location label. Signifies that the luminaire meets all UL requirements for proper, safe operation in environments subject to spray of non-corrosive and nonflammable liquids. Fixture requires rigid pendant mounting or wet location HC3PC3RWT assembly.
- TR Remote ballast luminaire. Add TR to end of complete fixture catalog number. Includes ballast housing, optic and appropriate remote optical splice box. Does not include interconnecting wiring. Ballast, optic and splice box ship separately.
- **RC3NP** Remote ballast luminaire with pre-wired cord. Add RC3NP to end of complete fixture catalog number. Includes ballast housing, optic and appropriate remote optical mounting box and 3 feet of pre-wired cable harness with male and female 20A twist lock plug (C3NP) factory attached. Ballast, optic and splice box ship separately.
- **RC3NPWL** Remote ballast luminaire with pre-wired cord for wet location. Add RC3NPWL to end of complete fixture catalog number. Same as RC3NP except listed for wet location.
 - SCK Safety chain kit. Kit includes chain and attachment hardware for field installation. Add SCK (5'), SCK84 (7'), SCK120 (10') to fixture catalog number or order separately as SCK (5'), SCK84 (7'), SCK120 (10').

Optic Options & Accessories

- **CF** Charcoal filter. Used with enclosed and gasketed luminaires. Filter prevents particulate contaminants from entering the optical assembly during start-up and cool-down periods. Filter consists of activated charcoal granules freely suspended between multiple layers of polyester filtering material.
- **GL17/GL22** Glass lens for TH A17/A22. Frequent cleaning maintains performance. (Does not meet UL lamp rupture containment specifications.) RK1 MHINGE U kit must be specified when ordering lens separately for field modification.
 - **T73** Corning C73. Prismatic tempered glass lens
 - **UP** *Uplight.* Glass enclosure for TE E17/E22.

	SF	DF	НА	WL	TR	RC3NP	RC3NPWL	SCK	CF	GL17/GL22	T73	UP
Ships attached	•		•	•					•	•	•	•
Ships separately					•	•	•			•		



Quartz Lamp Options

QRSTD

EC *Emergency circuit.* Factory-installed, double-contact, 120V bayonet-base quartz socket with socket leads for use with separate external emergency power system. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

Quartz restrike system. Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Automatically switches quartz lamp on if there is a power interruption or brownout significant enough to cause the primary HID lamp to drop out. The quartz lamp stays on until the HID fixture restrikes. QRS does not energize during cold start of HID luminaires. Wiring for the quartz lamp is internal to the ballast assembly; the ballast supplies voltage required to operate the quartz lamp. The fixture must be energized for quartz lamp to operate. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

Quartz restrike system time delay. Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Functions same as QRS, but quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come on when luminaire is energized and remain on for two minutes after startup or restrike. Wiring for the quartz lamp is internal to the ballast assembly; the ballast supplies voltage required to operate the quartz lamp. The fixture must be energized for quartz lamp to operate. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

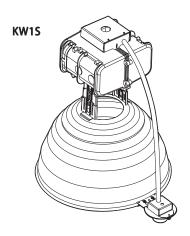
			M				Watta EC, QRS			ns					
	TE/E17/E22	TH/A14/A15/A16/A17/A22	TH/A16GL	TH/PA16	IH/PA22/PA22N/PA22SP	IH/PA22L/PA22E	TH/PA25	IX/PA22GLE/PA22C/PA25D	TX/A20/A23/A26/A30	EX/A162/A165	rG/TGR/TGL	'GP/PG16/PG21/PG16A/PG21A	PGE/PG16GLE/PG21GLE	TPGE/PG16AGLE/PG21AGLE	TX/A121/A125
Metal halide HID lamp wattage	_		_	=	_		⊢ z Lamp	_		_	<u> </u>	F		_	_
100	_	_	_	_	_	_	_	100	100	100	100	_	_	_	100
175	100	100	100		150	150	150	150	150	150	100	150	150	150	
200	150	150	100	_	150	150	150	150	150	150	100	150	150	150	_
250	250	250	100	_	250	150	150	250	150	150	100	250	150	150	_
300	250	250	100	_	250	150	150	250	150	150		250	150	150	_
320	250	250	100	_	250	150	150	250	150	150	_	250	150	150	_
350	250	250	100	_	250	150	150	250	150	150	_	250	150	150	_
400	250	250	100	_	250	150	150	250	150	150	_	250	150	150	_
450	250	250	100	_	250	150	150	250	150	150	_	250	150	150	_
750	250	500	-	_	_	-	150	_	-	_	_	500	150	150	
875	250	500	-	_	_	-	150	-	-	-	-	500	150	150	
1000	250	500	_	-	-	-	150	-	_	-	-	500	150	150	
High pressure sodium HID lamp wattage						Quart	z Lamp	Watta	ge						
50	-	-	-	-	-	-	-	100	-	-	-	-	-	-	100
70	100	100	-	-	-	-	-	100	-	100	100	-	-	-	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
150	150	150	150	150	150	150	150	150	150	150	100	150	100	100	150
200	150	150	150	150	150	150	150	150	150	150	100	150	100	100	150
250	250	250	150	250	250	150	150	250	150	150	100	250	250	250	150
400	250	250	150	_	250	150	150	250	150	150	_	250	250	250	
1000	500	500	_	_	_	_	150	_	_	_	_	500	250	250	_

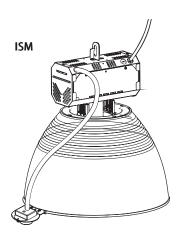
 $Add\,QxxxDC\,to\,fixture\,Catalog\,\#\,to\,include\,lamp\,(xxx\,denotes\,wattage).$

	EC	QRS	QRSTD
Ships attached	•	•	•
Ships separately			

EC/QRS/QRSTD

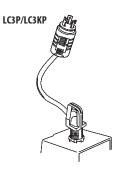






HC3P/HC3KP





HID Dimming Options

KW1 KiloWatch® 50% power reduction. 120V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW4 *KiloWatch*® *50% power reduction.* 277V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW150 KiloWatch® 50% lumen reduction. 120V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW450 *KiloWatch*® *50% lumen reduction.* 277V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW15 *KiloWatch*® *II 50% power reduction.* Integral sensor unit for individually controlled dual-level system. See KiloWatch® II data (page 381) or consult factory.

KW1SLT KiloWatch® II 50% power reduction for low temperature. Integral low temperature sensor unit for individually controlled dual-level system. See KiloWatch® II data (page 381) or consult factory.

ISM Individually sensored motion detector. 50% power reduction for individually controlled GEB electronic dimming ballast. See page 381 or consult factory for details.

Cord Mounting Options and Accessories

HC3P Hook, 3' cord and NEMA twist-lock plug. For use where receptacle and support means are provided by others. Includes die-cast aluminum hook, 3' of 16-gauge, 105°C cord and NEMA configuration twist-lock plug. Add HC3P to fixture catalog number for factory installed or order separately as HC3P Lx-xxP (Lx-xxP denotes plug configuration. Specify from NEMA Plug Table below). Height 3-1/2".

HC3KP Hook, 3' cord and NEMA twist-lock plug for KiloWatch®. Identical in function to HC3P except with NEMA L23-20P plug configuration for KiloWatch®.

LC3P Loop, 3' cord and NEMA twist-lock plug. For use where receptacle and support means are provided by others. Includes die-cast aluminum loop, 3' of 16-gauge, 105°C cord and NEMA configuration twist-lock plug. Add LC3P to fixture catalog number for factory installed or order separately as LC3P Lx-xxP (Lx-xxP denotes plug configuration. Specify from NEMA Plug Table below). Height 3-1/2".

LC3KPLoop, 3' cord and NEMA twist-lock plug for KiloWatch®. Identical in function to LC3P except with NEMA L23-20P plug configuration for KiloWatch®.

NEMA Plug Table										
	Ships	attached			Ships separately					
Fixture o	otion field	Fixture	voltage field		NEMA		Accessory item			
Hook, 3'	Loop, 3'			TBV	plug	Amp				
cord & plug	cord & plug	Voltage	TB ballast	ballast	configuration	rating	Catalog number			
НСЗР	LC3P	120	TB1	TBV1	L5-15P	15	HC3P L5-15P			
НСЗР	LC3P	208	TB2	TBV2	L6-15P	15	HC3P L6-15P			
НСЗР	LC3P	240	TB3	TBV3	L6-15P	15	HC3P L6-15P			
НСЗР	LC3P	277	TB4	TBV4	L7-15P	15	HC3P L7-15P			
НСЗР	LC3P	347	TB5		L37-20P	20	HC3PL37-20P			
НСЗР	LC3P	480		TBV6	L8-20P	20	HC3P L8-20P			
HC3P20	LC3P20	120	TB1	TBV1	L5-20P	20	HC3P L5-20P			
HC3P20	LC3P20	208	TB2	TBV2	L6-20P	20	HC3PL6-20P			
HC3P20	LC3P20	240	TB3	TBV3	L6-20P	20	HC3P L6-20P			
HC3P20	LC3P20	277	TB4	TBV4	L7-20P	20	HC3P L7-20P			

	KW1	KW4	KW150	KW450	KW1S	KW1SLT	ISM	НСЗР	НСЗКР	LC3P	LC3KP
Ships attached	•	•	•	•	•	•	•	•	•	•	•
Ships separately								•		•	



Cord Mounting Options and Accessories (continued)

HC3PC3RWTHook, 3' cord, NEMA twist-lock and receptacle for wet location. For use where support means are provided by others. Includes grommeted die-cast aluminum safety hook, 3' of 16-gauge, 105°C cord and NEMA twist-lock 20A plug and compatible NEMA receptacle.

SC3P Steel hook, 3' cord and NEMA twist-lock plug. Used on steel ballast housing only. For use where receptacle and support means are provided by others. Includes steel hook, 3' of 16-gauge, 105°C cord and NEMA configuration twist lock plug. 15A plug standard for 120V, 208V, 240V, 277V; 20A plug standard for 347V, 480V. Height 2-5/8".

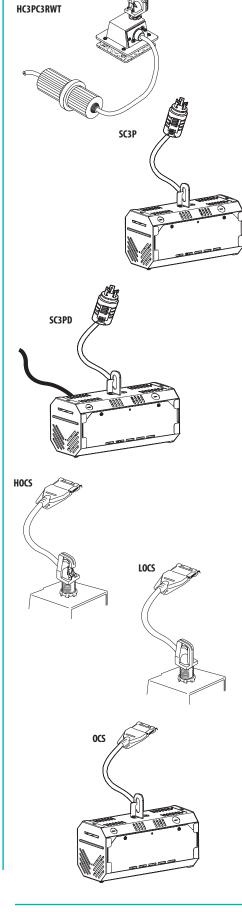
SC3PD Steel hook, 3' cord with NEMA twist-lock plug and 3' low voltage cord. Same as SC3P with 3' of low voltage control cord for 0-10VDC dimming. Used on steel ballast housing with GEB electronic ballast only.

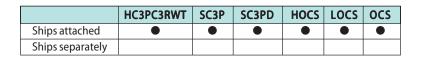
Reloc® Mounting Options

HOCS Hook, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes die-cast aluminum hook, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

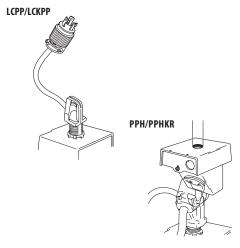
LOCS Loop, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes die-cast aluminum loop, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

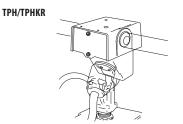
OCS Hook, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes steel hook, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. For SH/SX/SPG steel housing only. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

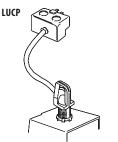


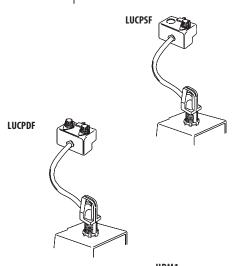














Power Hook Options & Accessories

LCPPLoop, cord and plug. Use with PPH and TPH only. Includes loop, 14" of 16-gauge, 105°C cord and twist-lock 14A non-NEMA plug configuration for power hooks. Receptacle is part of PPH or TPH accessory. Add LCPP to fixture catalog number for factory installed or order separately as LCPP.

LCKPPLoop, cord and plug for KiloWatch®. Use with PPHKR and TPHKR only. Includes loop,14" of 16-gauge, 105°C cord and twist-lock NEMA L23-20P plug for power hooks for KiloWatch®. Receptacle is part of TPHKR and PPHKR accessory. Factory installed.

PPH Pendant power hook. UL listed as primary disconnect, load break device. Threaded 3/4" top entry. Fixture requires LCPP option (loop, cord and plug). Add PPH to fixture catalog number or order separately as PPH xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 5-1/8"; width and depth 4-1/2".

PPHKR Pendant power hook for KiloWatch® system. UL listed as primary disconnect, load break device. Threaded 3/4" top entry. Fixture requires LCKPP option (loop, cord and plug for KiloWatch® system). Add PPHKR to fixture catalog or order separately as PPHKR xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 5-1/8"; width and depth 4-1/2".

TPH Through-wire power hook. UL listed as primary disconnect, load break device. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Fixture requires LCPP option (loop, cord and plug). Add TPH to fixture catalog number or order separately as TPH xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 6-1/4"; width and depth 4-1/2".

TPHKR Through-wire power hook for Kilo Watch *system. ULlisted as primary disconnect, load break device. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Fixture requires LCKPP option (loop, cord and plug for Kilo Watch *system). Add TPHKR to fixture catalog or order separately as TPHKR xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 6-1/4"; width and depth 4-1/2".

Universal Power Module Hook & Loop Mounting Options

LUCP Loop, universal cord and plug. Requires UPM1 option (universal power module with hook adapter). Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

LUCPSF Loop, universal cord, plug with single fusing. **Requires UPM1 (universal power module with hook adapter).** Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

LUCPDF Loop, universal cord, plug with double fusing. **Requires UPM1 (universal power module with hook adapter).** Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

Universal power module with hook adapter. UL listed as primary disconnect, load break device. Concentric knockouts for side entry of 1-1/4" or 3/4" conduit. Threaded 3/4" top entry for pendant. **Fixture requires LUCP options (loop, universal cord and plug).** Allows surface, through-wire or pendant mounting. Add UPM1 to fixture catalog number or order separately as UPM1 xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 7", width and depth 4-1/2".

	LCPP	LCKP	PPH	PPHKR	TPH	TPHKR	LUCP	LUCPSF	LUCPDF	UPM1
Ships attached	•						•	•	•	
Ships separately	•		•	•	•	•				•



Universal Power Module Mounting Options

UCP Universal cord and plug. Requires UPM (universal power module) option. 16-gauge, 105°C cord and plug. Connect to UPM to provide complete power module assembly. Factory prewired module.

UCPSF Universal cord and plug with single fuse. Requires UPM (universal power module) option. 16-guage, 105° C cord and plug module with single fuse (120V, 277V). Connect to UPM to provide complete power module assembly. Fuse is factory-installed in UCPSF plug module. Factory prewired.

UCPDF Universal cord and plug with double fuse. Requires UPM (universal power module) option. 16-guage, 105°C cord and plug module double fuse (208V, 240V, 480V). Connect to UPM to provide complete pwer module assembly. Fuses are factory-installed in UCPDF plug module. Factory prewired.

UPM Universal power module. UL listed as primary disconnect, load break device. Concentric knockouts for side entry of 1-1/4" or 3/4" conduit. Threaded 3/4" top entry. Fixture requires UCP (universal cord and plug) options. Allows flat horizontal surface, throughwire or pendant mounting. Add UPM to fixture catalog number or order separately as UPM xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 3-1/2", width and depth 4-1/2".

Box Mounting Options & Accessories

TOB Through-wire outlet box. Combination outlet box and splice compartment. Permits side entry for 1-1/4" or 3/4" conduit or top entry for 3/4" conduit through concentric knockouts. May be suspension or surface mounted. Height 2-7/8"; width and depth 4-1/2".

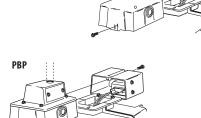
TOBP Through-wire outlet box plug-in. Provides plug-in flexibility of conventional power hook and reduces overall height. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Female receptacle part of TOBP box ships separately. Male plug is factory installed to ballast housing. Not rated as a load break device. Height 2-7/8"; width and depth 4-1/2".

PBP Pendant box plug-in. Pendant-mount plug-in outlet box provides plug-in flexibility of conventional power hook. Female receptacle part of PBP box ships separately. Male plug is factory-installed to ballast housing. Not rated as a load break device. Threaded 3/4" entry permits top entry of pendant stem. Height 4-1/2"; width and depth 4-1/2".

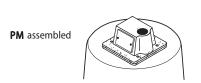
PSB Pendant splice box. Permits pendant mounting of TG and SH/SX/SPG steel housing series. TG box has 3/4" threaded top entry. SH/SX/SPG box has 3/4" top knockout.

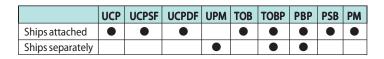
PM Pendant splice box. Permits pendant mounting of TGL and TGR series. Die-cast aluminum box has 3/4" threaded top entry.

UCPSF UCPSF
UCPDF
TOB
TOBP





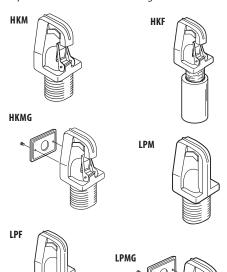


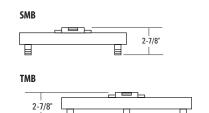


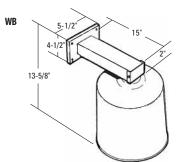


Options and Accessories

Drawings are for dimensional detail only and may not represent actual mechanical configuration.









Mounting Hooks

HKM Fixture hook male. Die-cast aluminum construction with spring steel safety clasp. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

HKF Fixture hook female. Die-cast aluminum construction with spring steel safety clasp with coupling added for female entry. Overall height is 5-1/4" including threaded coupling. Thread diameter is 3/4".

HKMG Fixture hook male grommeted. Die-cast aluminum construction with spring steel safety clasp. Gasketed cord exit design keeps dirt from entering hook/cord entry. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

LPM *Fixture loop male.* Die-cast aluminum construction with closed loop design. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

LPF Fixture loop female. Die-cast aluminum construction with closed loop design with coupling added for female entry. Overall height is 5-1/4" including threaded coupling. Thread diameter is 3/4".

LPMG Fixture loop male grommeted. Die-cast aluminum construction with closed loop design. Gasketed cord exit design keeps dirt from entering Loop/cord entry. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

Mounting Bars

SMB Single mounting bar. White painted steel channel with 3/4" pipe couplings suspend remote ballast housing at one end with remote reflector assembly at the other. SMB includes end snap-in closure strips for wire access. Order as **SMB18** for 18" (overall length) or **SMB24** for 24" (overall length). Center line of pipe couplings are 3" from each end.

TMB Twin mounting bar. White painted steel channel with 3/4" pipe couplings suspends two complete fixtures, one at each end. Order as **TMB30** for 30" (overall length) or **TMB48** for 48" (overall length). Centerlines of pipe couplings are 3" from each end.

WB TG Series wall-mounting bracket. Extruded aluminum wall bracket for TG, TGL, TGR luminaires. Bracket mounts directly to flat, vertical surface with four bolts (not included). Fixture slides directly onto WB. All wiring connections are made inside wall mounting bracket. TG requires PSB option (pendant splice box on page 391). TGL and TGR fixture require PM option (pendant splice box on page 391).

Wireguards for Hi-Tek® Aluminum High Bays and Low Bays

WGA Wireguard for Hi-Tek® open aluminum high bay reflectors. Use with TH A15/A16/A17/A22 and SH A15/A16 open aluminum reflector high bays. Add WG to fixture catalog number or order separately as WGxxx. (xxx – denotes reflector. Specify A15, A16, A17, A22.)

WGG Wireguard for enclosed high bay reflectors. Use with TE E17/E22; TH A17 with GL17/A22 with GL22; TPGE PG16GLE/PG16AGLE/PG21GLE/PG21AGLE reflector high bays. Wireguard is factory installed to glass lens door. Must be ordered with fixture. Add WG to fixture catalog number.

WG Wireguard for Hi-Tek® aluminum low bays. Use with TX A20/A23/A26/A30 or SX A23. **Must be ordered with fixture.** Add WG to fixture catalog number. Wireguard is factory attached to lens door. Add WG to fixture catalog number.

	НКМ	HKF	HKMG	LPM	LPF	LPMG	SMB	TMB	WB	WGA	WGG	WG
Ships attached											•	•
Ships separately	•	•	•	•	•	•	•	•	•	•		



Louver Guard Accessories

LGALouver guard for open aluminum high bay reflectors. Use with TH A16/A17/A22 or SH A16 open aluminum high bays. **Must be ordered with fixture.** Reflector requires factory modification for louver mounting. Add LGAxx to fixture catalog number. (xx – denotes reflector. Specify 16, 17, 22.)

LGG Louver guard for enclosed aluminum high bay reflectors. Use with TE E17/E22 enclosed aluminum high bays. **Must be ordered with fixture.** Reflector requires factory modification for louver mounting. Louver mounts to reflector above lens door. Add LGGxx to fixture catalog number. (xx – denotes reflector size. Specify 17, 22.)

Wireguards DuraBay® Prismatic Glass High Bays

Wireguard for open prismatic glass high bay reflectors. Use with prismatic glass reflector high bay TPG PG16/PG21 and shrouded prismatic glass reflector high bay TPG PG16A/PG21A. Wireguard covers bottom opening of reflector. Field installed to bottom of reflector. Add WGxxxx to fixture catalog number or order separately as WGxxxx. (xxxxx – denotes reflector. Specify PG16, PG21, PG16A, PG21A.)

Wireguard for enclosed prismatic glass high bay reflectors. Use with enclosed prismatic glass reflector high bay TPGE PG16GLE/PG21GLE/PG16AGLE/PG21AGLE. Two-piece wireguard protects top reflector and bottom glass lens door. Top portion field installed to reflector neck casting. Bottom portion factory installed to glass lens door. Add GFWGxx to fixture catalog number or order separately as GFWGxx. (xx – denotes reflector size. Specify 16, 21.) Optic, top wireguard and lens door with wireguard ship separately.

Wireguard Acrylume® Prismatic Acrylic High Bays and Low Bays

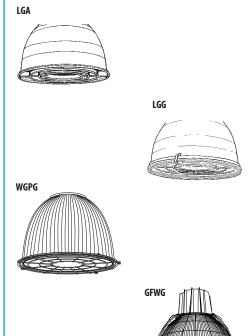
FWG Full wireguard. Use with the TH high bay or TX low bay Acrylume® fixtures. Attaches to bottom of ballast housing. Ships separately as: FWG U (Unit).

Decorative Shades

Fixture series and size	Cylinder DCY	Square DSQ	Hexagonal DHX	Dia.	Height
TH A16 and TH A17	DCY19 400 (color)	DSQ19 400 (color)	DHX19 400 (color)	19"	30"
TH A17 with WGA,	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22 ½"	30"
WGG or LGA					
TH A22	DCY24 400 (color)	DSQ24 400 (color)	DHX24 400 (color)	24"	30"
TH A22 with WGA,	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"
WGG or LGA					
TE17	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22½"	30"
TE E22	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"

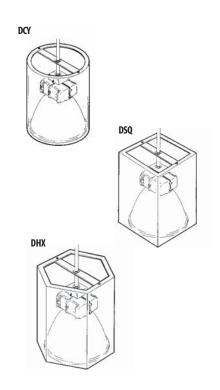
24-gauge steel construction with baked polyester enamel finish. Designed for pendant mounting on rigid conduit only. Not for use on swivel hangers or any self-leveling hanging device. Available in all architectural colors. Custom colors may involve substantial setup fees; consult factory. Mounting and fixture attachment hardware not included.

	LGA	LGG	WGPG	GFWG	FWG	DCY	DSQ	DHX
Ships attached								
Ships separately						•		











		Ships	Ships
		attached	separately
Ballast Housing	Options & Accessories		
SF	Single fuse; 120/277/347V only ¹	•	
DF	Double fuse; 208/240/480V only ¹	•	
НА	55°C ambient operation ²	•	
НА	65°C ambient operation ²	•	
WL	Wet location; UL Listed	•	
TR	Remote ballast luminaire		•
RC3NP	Remote ballast (TR) luminaire with pre-wired cord and plug ³		•
RC3NPWL	Remote ballast (TR) luminaire with pre-wired cord for wet location		•
SCK	Safety chain kit 60"		•
SCK84	Safety chain kit 84"		•
SCK120	Safety chain kit 120"		•
Optic Options			
CF	Charcoal filter ³	•	
GL	Glass lens (tempered) door enclosure	•	
T73	Corning C73 prismatic tempered glass lens door enclosure	•	
UP	Uplight glass enclosure ³	•	
Quartz Lamp Op	tions		
EC	Emergency circuit (lamp not included); see page 387 for maximum wattage	•	
QRS	Quartz restrike system (lamp not included); see page 387 for maximum wattage	•	
QRSTD	QRS time delay (lamp not included); see page 387 for maximum wattage	•	
HID Dimming Op	otions		
KW1	KiloWatch® 120V control relay; 50% wattage reduction	•	
KW4	KiloWatch® 277V control relay; 50% wattage reduction	•	
KW150	KiloWatch® 120V control relay; 50% light (lumen) reduction	•	
KW450	KiloWatch® 277V control relay; 50% light (lumen) reduction	•	
KW1S	KiloWatch® II integral sensor unit; 50% wattage reduction ³	•	
KW1SLT	KiloWatch® II integral low temperature sensor unit; 50% wattage reduction ³	•	
ISM	Integral sensor unit; 50% wattage reduction (GEB electronic ballast only)	•	
Cord Mounting (Options		
НСЗР	Hook, 3' cord & 15A NEMA twist-lock plug (20A for 480V) ^{1,3}	•	•
НС3КР	Hook, 3' cord & NEMA L23-20P KiloWatch® plug³	•	
LC3P	Loop, 3' cord & 15A NEMA twist-lock plug (20A for 480V) ^{1,3}	•	•
LC3KP	Loop, 3' cord & NEMA L23-20P KiloWatch® plug³	•	
HC3PC3RWT	Wet location hook, cord and receptacle ¹	•	
SC3P	Steel hook, 3' cord and 15A NEMA twist-lock plug	•	
SC3PD	Steel hook, 3' cord and 15A NEMA twist-lock plug and 3' low voltage control cord	•	
Reloc® Mountin	g Options		
HOCS	Hook, 5' white cord, Reloc® OCS ^{1,3,4}	•	
LOCS	Loop, 5' white cord, Reloc® OCS ^{1,3,4}	•	
OCS	Steel hook 5' white cord, Reloc® OCS	•	
Power Hook Opt	ions		
LCPP	Loop, cord and plug; requires PPH or TPH ³	•	•
LCKPP	Loop, cord and KiloWatch® plug; requires PPHKR or TPHKR³	•	•
PPH	Pendant power hook outlet box; luminaire requires LCPP ³		•
PPHKR	Pendant power hook outlet box for KiloWatch®; luminaire requires LCKPP³		•
TPH	Through-wire power hook outlet bos; luminare requires LCPP ³		•
ТРНКР	Through-wire power hook outlet box for KiloWatch®; luminaire requires LCKPP³		•

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Not available all wattages and voltages. Consult factory.
- 3 Cannot be combined with (WL) wet location option.
- 4 Available 120V or 347V only in Canada.
- 5 Requires (PSB) pendant splice box option.
- 6 Requires (PM) pendant splice box option.

= Standard						Hi	gh ba	ıys															Low	/ bays							_
= Option available		SH A14	SH A15	SH A16	SH PA22	SPG PG15	TE E17/E22	THA14	TH A15	TH A16/A16GL	TH A17/A22	TH PA22*/PA25	THDA15/A16	TPG	TPGE	SX A23	TG	101	TGR	TX A125/A165	TX A20	TX A23	TX A26	TXD A23	TX A30	TXF A30F	TXF PA25ALEF	TX PA22C	TX PA22GLE	TX PA25ALE	TX PA25D
	SF			П	•																									П	
	DF													П																	
	HA (55° C)								o				o.	o																	
S	HA (65° C)																														
Ballast housing options & accessories	WL																									۵					
Ballast housing tions & accessor	TR																														
Balla	RC3NP																														
do	RC3NPWL						•																								
	SCK																														
	SCK84																														_
	SCK120																														_
S	CF										_												-		-						_
Optic options	GL17/GL22						_																								_
0	T73																														_
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d mountii options	LC3KP																	6	6												
Cord mounting options	HC3PC3RWT																														ı
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Reloc® mounting options	LOCS																5														
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	TPH																														_
	TPHKP							Ш				Ш																			

Options & Accessories

		Ships	Ships
		attached	separately
Universal powe	r module hook and loop mounting		
LUCP	Loop, cord and plug; for use with UPM1 ^{1,2}	•	
LUCPSF	LUCP, single fuse; dead front fusing; 120/277V only; for use with UPM11.2	•	
LUCPDF	LUCP, double fuse; dead front fusing; 208/240/480V only; N/A multi-tap ballast; for use with UPM11.2	•	
UPM1	Universal power module/hook adapter (specify voltage); luminaire requires LUCP, LUCPSF or LUCPDF and the property of the pro		•
Universal powe	r module mounting		
UCP	Universal cord and plug; for use with UPM ^{1,2,3}	•	
UCPSF	UCP with single fuse; dead front fusing; for use with UPM ^{1,2,3}	•	
UCPDF	UCP with double fuse; dead front fusing; for use with UPM ^{1,2,3}	•	
UPM	Universal power module (specify voltage); luminaire requires UCP, UCPSF or UCPDF		•
Boxmounting			
ТОВ	Through-wire outlet box ²		•
TOBP	Through-wire outlet box plug-in ^{1,2}	•	•
PBP	Pendant box plug-in ^{1,2}	•	•
PSB	Pendant splice box (steel box) ²	•	
PM	Pendant splice box (die-cast aluminum box)	•	
Mounting hook	sandloops		
нкм	Fixture hook, male		•
HKF	Fixture hook, female (3/4" threaded coupler)		•
HKMG	Grommeted fixture hook, male		•
LPM	Fixture loop, male		•
LPF	Fixture loop, female (3/4" threaded coupler)		•
LPMG	Grommeted fixture loop, male		•
Mounting bars			
SMB18	18" single-mounting bar; requires TR remote ballast option ^{2,4}		•
SMB24	24" single-mounting bar; requires TR remote ballast option ^{2,4}		•
TMB30	30" twin-mounting bar ²		•
TMB48	48" twin-mounting bar ²		•
WB	TG Series wall mounting bracket		•
Wireguards			
WGA	Wire guard for open Hi-Tek® high bay reflectors (specify reflector size 15, 16, 17 or 22)		•
WGG	Wireguard for enclosed high bay reflectors (add WG to catalog number)	•	
WG	Wire guard for Hi-Tek® low bays	•	
LGA	Louver guard for open Hi-Tek® high bays (specify reflector size 16, 17 or 22)		•
LGG	Louver guard for enclosed Hi-Tek® high bays (specify reflector size 17 or 22)		•
WGPG	Wire guard for prismatic glass high bays (specify reflector size 16, 21, 16A or 21A)		•
GFWG	Full wire guard enclosed glass optic		•
FWG	Full wire guard for Acrylume® optics		•
Decorative shad			
DCY	Cylinder shade (specify reflector size and color) ⁵		•
DSQ	Square shade (specify reflector size and color) ^s		•
DHX	Hexagonal shade (specify reflector size and color) ^s		•
Paint options			
CR	Enhanced corrosion-resistant finish (polyester), housing and reflector ⁶	N/A	N/A
CRT	Non-stick protective coating, housing and reflector ^o	N/A	N/A
Lamp options			
LPI	Lamp shipped in carton with fixture (N/A with incandescent)	•	
W/LAMP	Lamp ships separately (N/A with incandescent)		•

NOTES:

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Cannot be combined with (WL) wet location option.
- 3 Available 120V or 347V only in Canada.
- Requires (TR) remote ballast option.
- 5 Pendant mount on rigid conduit. Not for use with any self-leveling hanger.
- ${\small 6}\>\>\>\> Consult factory for environmental compatibility.$
- 7 Requires (PM) pendant splice box option.
- 8 Must be ordered with (GL17/GL22) tempered glass lens door enclosure.
- 9 Housing only.

Optional Architectural Colors

DNA Natural aluminum DSB Steel blue DMB Medium bronze Tennis green DTG DSS Sandstone DBL Black DWH White DGC Charcoal gray DBR Bright red Dark bronze DDB



							High	bays															Lo	ow ba	ys						
■ Standard ■ Option available		SH A14	SH A15	SH A16	SH PA22	SPG	ш	TH A14	TH A15	THA16/A16GL	TH A17/A22	TH PA22/PA25	THDA15/A16	TPG	TPGE	SXA23	16	191	TGR	TX A125/A165	TX A20	TX A23	TX A26	TXD A23	TX A30	TXF A30F	TXF PA25ALE	TX PA22C	TX PA22GLE	TX PA25ALE	TX PA25D
ver and ng	LUCP																	7	1 7												
Universal power module hook and loop mounting	LUCPSF																	7	7												
iversa dule	LUCPDF																	7	7												
	UPM1																	1 7	1 7												
ver ting	UCP																														
Universal power module mounting	UCPSF																														
iversa	UCPDF																														
un moc	UPM																														
	ТОВ																														
Box mounting	TOBP																														
nom	PBP																														
Вох	PSB																														
	PM																														
1	НКМ																														
Mounting hooks and loops	HKF														•																
unting hoc and loops	HKMG																														
Aouni	LPM																														
_	LPF																														
	LPMG																														
	SMB18																				ш										
ρί	SMB24																				ш										
untir	TMB30																														
	TMB48																				ш										
	WB																•														
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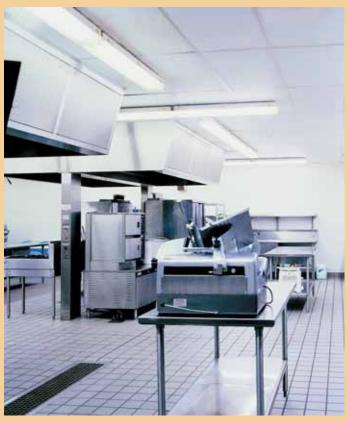
LITHONIA LIGHTING®

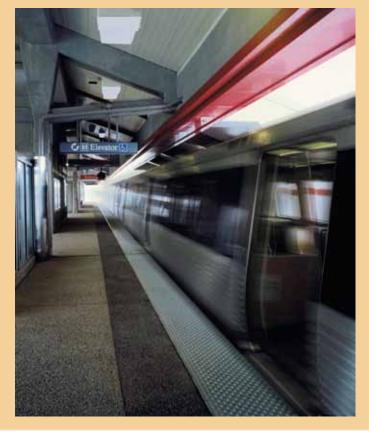


Rough Service

Lithonia Lighting offers a full range of Rough Service fixtures designed to withstand both physical and environmental abuses, from the extreme intent-todestroy to minor impacts.

These fixtures are ideal for high-risk applications such as schools, recreational areas, institutions, apartment complexes, train and bus stations, parking garages and government buildings.





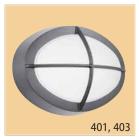
LITHONIA ROUGH SERVICE

399

412

CONTENTS

























Architectural

Round 400, 402 Oval 401, 403

Utilitarian

Steel Backplate 404 Cast Housing 405

Linear Fluorescent

Surface Recessed Industrial

Accessories 418



Gateway®







Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel - One-piece, marine-grade, die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to backplate with stainless steel Torx® T10 set screws (two included).

Finish - Standard finish is textured polyester powder coat.

Backplate - 16-gauge steel, post-painted in black polyester powder coat. Universal keyhole and four-point mounting detail.

Lens – Translucent white, injection-molded, UVstabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250 " thick).

Gasket – Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate to mounting surface.

Reflectors - High-gloss white powder coat finish for maximum light output. Lamps positioned for uniform brightness and illumination.

Ballast - Class P, electronic, HPF multi-volt, <10% THD with starting temperature of 0°F. 13TT is Electromagnetic, NPF, 120V only.

Socket - High-temperature thermoplastic with lamp retention clip.

Lamps – 35K 4-pin lamp(s) included unless L/LP is specified.

Listings

UL Listed to US and Canadian safety standards (See Options). NOM Certified (see Options). UL listed for 25°C ambient and wet locations. IP65

Example: VGR1 42TRT GL 120 DWHG GLR LPI

Ordering Information

Voltage Series Lamp type Low profile (ADA) Twin-tube 120 **13TT** VGR1 3.7" deen 277 VGR2 4" deep 2/13TT 347 Double twin-tube MVOLT3 VGR4 4.1" deep 13DTT VGR5 4" deep 2/13DTT Lens 18DTT (blank) Polycarbonate 2/18DTT Borosilicate glass 26DTT 2/26DTT Triple-tube 26TRT 2/26TRT 32TRT

42TRT

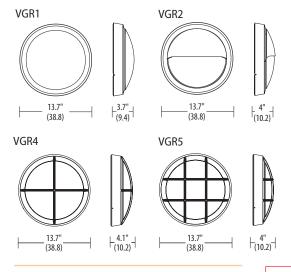
Paint finishes⁴ Standard textured colors DWHG White DBLB Black **DDBT** Dark bronze DNAT Natural aluminum DSST Sandstone Optional textured colors DBNH Bronze DSPD Dark gray DSPE Green DSPG Dark red DSPF Rust **DSPH** Red DSPJ Light gray

Options ADCF Advance electronic fluorescent ballast MOTCF Osram Sylvania electronic fluorescent ballast TUBCF Universal Lighting Technologies electronic fluroescent ballast 2/1 Two 1-lamp ballasts **Dual switching** DS GLR Internal fast-blow fusing⁵ **GMF** Internal slow-blow fusing⁵ Compact fluorescent night-light (9W **NLCF** max.)^{2,6,7} TRS Tamper-resistant screws8 Listed and labeled to comply with Canadian safety standards NOM NOM Certified

For other options and accessories, see below and pages 418-419.

Lamps9 Lamp(s) included (standard) L/LP Less lamp(s)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



NOTES:

- 1 Not ADA compliant.
- 120V only
- Multi-volt electronic ballast (for DTT and TRT lamps), capable of operating on any line voltage between 120V and 277V.
- For additional colors, see Architectural Colors brochure on www.lithonia.com
- Must specify voltage. Not available with MVOLT.
- Available for single lamp units only
- $Maximum\,wattage\,lamp\,included.$
- Stainless steel Torx® T20 screws with center reject pin.
- 9 Lamp(s) included unless L/LP is specified

Accessories (Order separately) RK1 T10DRV Torx® T10 screwdriver for Gateway set screws. RK1 T20BIT Torx® T20 hex-base driver bit for TRS option. RK1 T20DRV Torx® T20 screwdriver for TRS option.

	Lamp/Fixture D	ata	
		Weight	Lamp
Wattage	Ballast	lbs.	base
<u>Fluorescent</u>			
13W	Electromagnetic, NPF	8.50	GX23
13W	Electronic, HPF	9.80	G24q-1
18W	Electronic, HPF	9.80	G24q-2
26W	Electronic, HPF	9.80	G/GX24q-3
32W	Electronic, HPF	9.80	GX24q-3
42W	Electronic, HPF	9.80	GX24q-4



Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel - One-piece, marine-grade die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to backplate with stainless steel Torx® T10 set screws (two included).

Finish - Standard finish is textured polyester powder coat.

Backplate - 16-gauge steel, post-painted in black polyester powder coat. Four-point mounting detail.

Lens - Translucent white, injection-molded, UVstabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick).

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate to mounting surface.

Reflectors - High-gloss white powder coat finish for maximum light output. Lamp positioned for uniform brightness and illumination.

Ballast - Class P, electronic, HPF multi-volt, <10% THD with starting temperature of 0°F. 13TT is electromagnetic, NPF, 120V only.

Socket - High-temperature thermoplastic with lamp retention clip

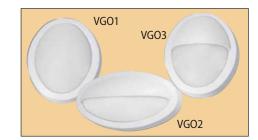
Lamp - 35K 4-pin lamp included unless L/LP is specified.

Listings

UL Listed to US and Canadian safety standards (see Options). NOM Certified (see Options). UL listed for 25°C ambient and wet locations. IP65 rated.

ADA

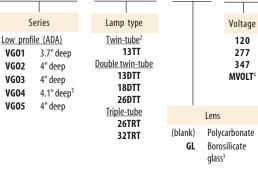
Gateway®





Ordering Information

Example: VGO1 32TRT MVOLT DWHG TRS LPI



120	Standard	textured colors
277	DWHG	White
347	DBLB	Black
MVOLT ⁴	DDBT	Dark bronze
	DNAT	Natural aluminum
	DSST	Sandstone
ens	<u>Optional</u>	textured colors
olycarbonate	DBNH	Bronze
orosilicate	DSPD	Dark gray
lass ³	DSPE	Green
	DSPG	Dark red
	DSPF	Rust
	DSPH	Red

Paint finishes⁵

Options							
ADCF	Advance electronic fluorescent ballast						
MOTCF	Osram Sylvania electronic fluorescent ballast						
TUBCF	Universal Lighting Technologies electronic fluorescent						
	ballast						
GLR	Internal fast-blow fusing ⁶						
GMF	Internal slow-blow fusing ⁶						
TRS	Tamper-resistant screws ⁷						
CSA	Listed and labeled to to comply with Canadian standards						
NOM	NOM Certified						
For other options and accessories, see below and pages 418-419.							

Accessories RK1 T10DRV

RK1 T20BIT

RK1 T20DRV

Wattage

13W

13W

18W

26W

32W

<u>Fluorescent</u>

		Lamps ⁸
	LPI	Lamp(s) included (standard)
t	L/LP	Less lamp(s)
ırds		

Torx® T10 screwdriver for Gateway set screws.

Weight

lbs.

8.50

9.80

9.80

9.80

9.80

Lamp

base

GX23

G24q-1

G24q-2

G/GX24q-3

GX24q-3

Torx® T20 hex-base driver bit for TRS option.

Torx® T20 screwdriver for TRS option.

Lamp/Fixture Data

Ballast

Electromagnetic, NPF

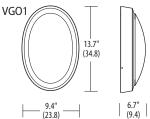
Electronic, HPF

Electronic, HPF

Electronic, HPF

Electronic, HPF

Dime	nsions are shown in inches (cent i	meters) unless otherwise noted.



VGO2



6.7" (9.4)

| 4" (10.2) (34.8)

NOTES:

VGO3

9.4"

- 1 Not ADA compliant.
- 120V only.
- Not available with TRT lamps.

DSPJ

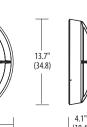
- Multi-voltelectronic ballast (for DTT and TRT lamps) capable of operating on any and the state of the stateline voltage between 120V and 277V.
- $For additional \, colors, see \, Architectural \, Colors \, brochure \, on \, www. lithonia. com. \, and \, colors \, brochure \, on \,$
- Must specify voltage. Not available with MVOLT.
- Stainless steel Torx® T20 screws with center reject pin.

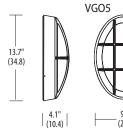
Light gray

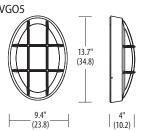
8 Lamp included unless L/LP is specified.

13 7'

VGO4	_
(2	.4" 3.8)





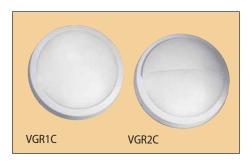


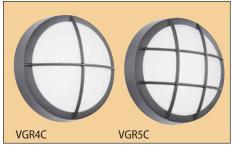
www.lithonia.com, keyword: VGO



VGR

Gateway®





Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel - One-piece, marine-grade die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to housing with stainless steel Torx® T10 set screws (two included).

Finish - Standard finish is textured polyester powder coat.

Housing - One-piece, marine-grade, die-cast aluminum, low copper alloy (<1% copper), postpainted in textured polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Lens - Translucent white, injection-molded, UVstabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick).

Reflectors - HID reflectors are semi-specular

aluminum. Fluorescent reflectors are high-gloss white powder coat finish for maximum light output. Lamps positioned for uniform brightness and illumination.

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals housing to mounting surface.

Ballast - HID: High reactance, HPF, starting temperature -20°F (MH) or -40°F (HPS). CFL: Class P, electronic, HPF multi-volt. <10% THD with starting temperature of 0°F.

Socket - HID: medium-base 4KV Rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

Lamps - 35K 4-pin lamp(s) standard for compact fluorescent. MH: reduced UV lamp is standard. Included unless L/LP is specificied.

Listings

UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations. IP65 rated.

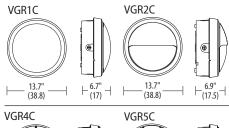
Example: VGR1C 50M 120 GL DSPH SF LPI

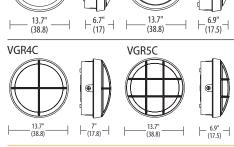
Ordering Information

Deep profile Double Triple-tube				
Deep profile				
VGR1C 6.7" deep twin-tube 26TRT VGR2C 6.9" deep 13DTT 2/26TRT VGR4C 7" deep 2/13DTT 32TRT VGR5C 6.9" deep 18DTT 2/32TRT 2/18DTT 42TRT 2/42TRT 2/26DTT High pressure so 50S 70S Metal halide 50M 50M	S	eries	La	imp type
/UM	VGR1C VGR2C VGR4C	6.7" deep 6.9" deep 7" deep	twin-tube 13DTT 2/13DTT 18DTT 2/18DTT 2/18DTT	26TRT 2/26TRT 32TRT 2/32TRT 42TRT 2/42TRT High pressure so 50S 70S Metal halide

20	6.9" de	ep e	13DTT	2/26TRT
4C	7" deep		2/13DTT	32TRT
5C	6.9" de	ep	18DTT	2/32TRT
			2/18DTT	42TRT
			26DTT	2/42TRT
			2/26DTT	High pressure sodium
				50\$
				705
				Metal halide ¹
				50M
				70M
				100M
sorie	S			(Order separately)
=	DOM T	O T40		

Accessories	(Order separately)
RK1 T10DRV	Torx® T10 screwdriver for Gateway set screws.
RK1 T20BIT	Torx® T20 hex-base driver bit for TRS option.
RK1 T20DRV	Torx® T20 screwdriver for TRS option.
VGRDS	Decorative shroud ¹⁷





	Voltage	Pa	int finishes ⁶
	120 208 240 277 347 TB ²³ MVOLT ^{4,5}	DWHG DBLB DDBT DNAT DSST	
	MVOLI	DBNH	Bronze
	Lens	DSPD	Dark gray
blank) Polycarbonate	DSPE	Green
Gl	L Borosilicate	DSPG	Dark red
	glass	DSPF	Rust
		DSPH	Red
		DSPJ	Light gray

NOTES:

- Low UV lamp is included and recommended for replacement.
- 2 Multi-tap ballast-US: 120V, 208V, 240V, 277V; Canada: 120V/347V.
- Available for HID units only
- Multi-voltelectronic ballast (for DTT and TRT lamps) capable of operating the state of the staon any line voltage between 120V and 277V.
- Available for compact fluorescent units only
- For additional colors, see Architectural Colors brochure on www.lithonia.com
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT, 26TRT and 32TRT,
- 42TRT max, wattage
- 10 Maximum wattage lamp included
- 11 Available for single-lamp units only
- 12 120V only
- 13 Not available with DS.
- 14 Stainless steel Torx® T20 screws with center reject pin.
- 15 Color will be the same as the bezel.
- 16 Lamp included unless L/LP is specified.
- 17 Must specify color (Example: VGRDS DWHG)

Dimensions are shown in inches (centimeters) unless otherwise noted.

Options Lamps16 ADCF Advance electronic fluorescent ballast Lamp(s) Osram Sylvania electronic fluorescent ballast included (standard) Universal Lighting Technologies electronic L/LP fluorescent ballast Less ADF7 Advance Mark X electronic dimming ballast^{5,7,8} lamp(s) Lutron Hi-Lume electronic dimming ballast^{5,7,8} Emergency lighting (750 max. lumens)^{5,7,9} **ELDW** Two 1-lamp ballasts DS **Dual switching** DF Double fuse (208V, 240V)^{3,7} Emergency circuit (Incandescent, 25W max.)^{10,11} GLR Internal fast-blow fusing^{5,7} Internal slow-blow fusing^{5,7} **GMF** Night-light (7W max.)10,11,12 NLPhotoelectric cell^{7,13} PE Quartz restrike system3,10 ORS Single fuse (120V, 277V)^{3,7} SF

Listed/labeled to comply with Canadian standards

TRS

CSA

Tamper-resistant screws14

For other options and accessories, see left and pages 418-419.

Decorative shroud¹⁵

	Lamp/Fixture (Data	
		Weight	Lamp
Wattage	Ballast	lbs.	base
Fluorescent			
13W	Electromagnetic, NPF	8.50	GX23
18W	Electronic, HPF	8.50	G24q-2
26W	Electronic, HPF	8.50	G/GX24q-3
32W	Electronic, HPF	8.50	GX24q-3
42W	Electronic, HPF	8.55	GX24q-4
High pressu	re sodium		
50W	HX-HPF	16.30	medium
70W	HX-HPF	12.80	medium
Metal halid	<u>e</u>		
50W	HX-HPF	11.40	medium

www.lithonia.com, keyword: VGR A LITHONIA LIGHTING

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel – One-piece, marine-grade die-cast aluminum, low copper alloy (<1% copper), .125" thick. Secured to housing with stainless steel Torx®T10 set screws (two included).

Finish - Standard finish is textured polyester powder coat.

Housing - One-piece, marine-grade die-cast aluminum, low copper alloy (<1% copper), postpainted in textured polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Lens - Translucent white, injection-molded, UVstabilized polycarbonate, .125" thick. Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick).

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals housing to mounting surface.

Reflectors – High-gloss white powder coat finish for maximum light output. Lamps positioned for uniform brightness and illumination.

Ballast – HID: High reactance, HPF, starting temp. -20°F (MH) or -40°F (HPS). CFL: Class P, electronic, HPF multi-volt. <10% THD with starting temperature of 0°F.

Socket -HID: medium-base 4KV porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

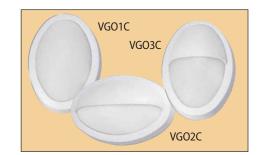
Lamps - 35K 4-pin lamp(s) standard for compact fluorescent. MH: reduced UV lamp is standard. Included unless L/LP is specificied.

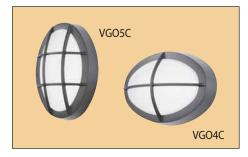
Listings

UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations. IP65 rated.

Paint finishes⁶

Gateway®





Example: VGO1C 50S TB DSPD PE LPI

Ordering Information

Se	ries	Lam	p type
VG01C VG02C VG03C VG04C	6.7" deep 6.9" deep 6.9" deep 7" deep	Double twin-tube 13DTT 18DTT 26DTT	Triple-tube 26TRT 32TRT 42TRT
VG05C	6.9" deep		High pressure sodium 50S Metal halide ¹ 50M

NOTES:

- $1\quad Low-UV \, lamp \, is \, included \, and \, recommended \, for \, replacement.$
- 2 Multi-tap ballast-US: 120V, 208V, 240V, 277V; CA: 120/347V.
- 3 Available for HID units only
- . Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V-277V.
- Available for compact fluorescent units only.
- 6 For additional colors, see Architectural Colors brochure on www.lithonia.com.
- Must specify voltage. Not available with MVOLT or TB. 8 Available with 26DTT and TRT lamps; excludes 42TRT.
- 9 Maximum wattage lamp included.
- 11 Stainless steel Torx® T20 screws with center reject pin.
- 12 Lamp(s) included unless L/LP is specified.

Voltage Standard textured colors 120 **DWHG** White 208 240 DBLB Black Dark bronze **DDBT** 277 **DNAT** Natural aluminum 347 **DSST** Sandstone TB^{2,3} Optional textured colors MVOLT4,5 **DBNH** Bronze **DSPD** Dark gray DSPE Green (blank) Polycarbonate DSPG Dark red Borosilicate glass DSPF Rust DSPH Red DSPJ Light gray

	Lamp/Fixt	ure Data	
		Weight	Lamp
Wattage	Ballast	lbs.	base
Fluorescent			
13W	Electronic, HPF	9.80	G24q-2
18W	Electronic, HPF	9.80	G/GX24q-3
26W	Electronic, HPF	9.80	GX24q-3
32W	Electronic, HPF	9.80	GX24q-4
High pressure	<u>sodium</u>		
50W	HX-HPF	16.30	medium
Metal halide			
50W	HX-HPF	11.40	medium

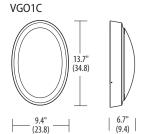
Lamps¹² **Options** LPI Lamp(s) ADCF Advance electronic fluorescent ballast included MOTCE Osram Sylvania fluorescent ballast (standard) Universal Lighting Technologies I/IP Less electronic fluroescent ballast lamp(s) Advance Mark X electronic dimming ADEZ ballast^{7,8} DMHL Lutron Hi-lume electronic dimming ballast^{7,8} Double fuse (208V, 240V)^{3,7} Emergency circuit (Incandescent, 25W max.)9 GLR Internal fast-blow fusing^{5,7} Internal slow-blow fusing^{5,7}

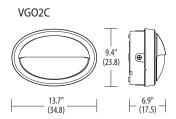
CSA CSA Certified For other options and accessories, see below and pages 418-419. (Order separately) Accessories RK1 T10DRV RK1 T20BIT

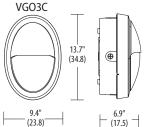
Night-light (Incandescent, 7W max.)9,10

Torx® T10 screwdriver for Gateway set screws. Torx® T20 hex-base driver bit for TRS option. RK1 T20DRV Torx® T20 screwdriver for TRS option.

Dimensions are shown in inches (centimeters) unless otherwise noted.







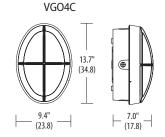
GMF

PE Photoelectric cell⁷

Quartz restrike system^{3,9}

Single fuse (120V, 277V)^{3,7}

Tamper-resistant screws1



www.lithonia.com, keyword: VGO



LITHONIA ROUGH SERVICE

404

VR2



Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for applications that require adequate light capabilities for safety and security.

Features

Lens - VR1: White opal UV-stabilized polycarbonate, nominal thickness .125", softens light across entire surface. VR2: Clear prismatic UV-stabilized polycarbonate, nominal thickness .125". Smooth exterior for easy cleaning. Stainless steel tamper-resistant Torx® T20 screws or standard stainless steel slotted hex-head screws (two of each included).

Backplate - Heavy-duty, 16-gauge cold-rolled steel. White polyester powder coat for high reflectance, durability and corrosion resistance. Backplate insulated with 1" thick fiberglass. Closed-cell neoprene gasket seals out moisture and contaminants.

Ballast - Electromagnetic ballast is NPF with starting temperature of 0°F.

Socket - Fluorescent: thermoplastic socket. Incandescent: unglazed porcelain snap-in socket with aluminum screw shell. Spring-loaded steel clips hold socket tightly in place.

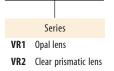
Lamps – 35K compact fluorescent lamp included unless L/LP is specified. Incandescent lamp not included.

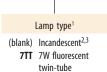
Installation - Can be wall or ceiling mounted. Backplate suitable for outlet box mounting. For maximum vandal resistance, mount unit to structure through four knockouts provided.

Listings

UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Ordering Information







Lens type (blank) VR1: White opal VR2: Clear prismatic Horizontal black eyelid Perimeter black trim PBT Vertical black eyelid

L/LP

Example: VR1 AL

Lamps

Lamp included

(standard)

Less lamp

	Options
AL	Aluminum backplate
DC	Single DC bayonet base socket
EC	Emergency circuit (Incandescent, 25W max.) ⁴
GLR	Internal fast-blow fusing ¹
GMF	Internal slow-blow fusing ¹
IHR	Internal horizontal reflector
IR	Internal reflector
NL	Night-light(Incandescent, 7W max.) ⁴
XT	Low energy diode extended lamp life ⁵
45	Four screws per unit

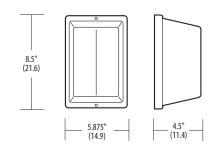
CSA Certified For other options and accessories, see belowand pages 418-419.

CSA

NOTES:

- Specify for compact fluorescent only.
- 2 Maximum wattage: vertical wall mount = 100W, horizontal wall mount = 60W, ceiling mount = 75W.
- 3 Lamp not included.
- 4 Maximum wattage lamp provided.
- Available for Incandescent units only.
- Fluorescent lamp included unless L/LP is specified.

Dimensions are shown in inches (centimeters) unless otherwise noted.



	Lamp/Fixture Dat	a	
		Weight	Lamp
Wattage	Ballast	lbs.	base
Incandescent			
100W	-	2.40	A19IF
Fluorescent			
7W	Electromagnetic, NPF	5.00	G23

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

For extension boxes and external visors, see page 418 .



Decorative luminaire for general illumination of rough service (vandal-resistant) applications. Ideal for applications that require maximum light capabilities for safety and security.

Features

Lens – VR1B/BV/BH: White opal UV-stabilized, injection molded polycarbonate lens, nominal thickness .125". VR2B/BV/BH: Clear prismatic UV-stabilized, injection molded polycarbonate lens, nominal thickness .125".

Smooth exterior for easy maintenance and accented with high-strength Polane® polyurethane coating for hardness, adhesion and abrasion resistance. Lens is secured by two #8-32 stainless steel screws, either tamper-resistant Torx® T-20 or slotted hex-head (two of each included).

Housing – One-piece cast aluminum, finished in black polyester powder coat. One ½" opening al-

lows rear conduit entry or covers the outlet box. Two mounting holes for wall mounting.

Gaskets – Perimeter housing gasket is onepiece, die-cut, closed-cell neoprene to seal out contaminants. Pad mounting gasket of closedcell neoprene helps keep out moisture, insects and dust from housing.

Ballast – Electronic HPF multi-volt, starting temperature 0°F. Exception: 7TT is electromagnetic, NPF.

Sockets – Thermoplastic.

Lamps – 35K compact fluorescent lamp(s) included unless L/LP is specified.

Installation – Unit may be wall or ceiling mounted.

Listings

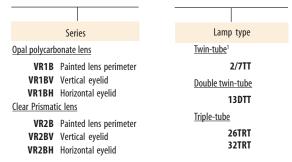
UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations.

VR1B VR2B



Example: VR1B 2/7TT 120 SCB LPI

Ordering Information



Voltage 120 277 347 MVOLT²

Options

EC Emergency circuit (Incandescent, 25W max.)^{3,4}

GLR Internal fast-blow fusing⁵

GMF Internal slow-blow fusing⁵

NL Nightlight (Incandescent, 7W max.)^{1,3,4}

PE Photoelectric cell⁵

SCB Surface conduit backbox⁶

CSA Listed and labeled to comply with

For other options and accessories, see below and pages 418-419. $\label{eq:continuous}$

Canadian standards.

Lamp⁷

L/LP Lamp included (standard)
L/LP Less lamp

NOTES:

- 1 120V only
- Multi-voltelectronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V and 277V.
- 3 Maximum wattage lamp provided.
- 4 Available for single lamp units only.
- 5 Must specify voltage. Not available with MVOLT.
- $6 \quad Replaces \, standard \, backbox. \, UL \, listed \, for \, damp \, locations.$
- 7 Lamp included unless L/LP is specified.

 $Dimensions \ are \ shown \ in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise \ noted.$

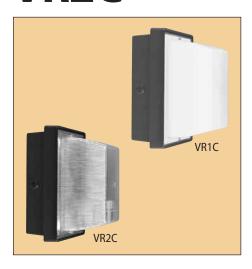
VR1B 8.5" (21.6) 5.875" (14.9) 5.5" (14.0)

Accessories	(Order separately
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistan screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screw with center reject pin.
SCB	Surface conduit backbox, black

	Lamp/Fixtur	e Data	
		Weight	Lamp
Wattage	Ballast	lbs.	base
Fluorescent			
7W	Electromagnetic, NPF	5.00	G23
13W	Electronic, HPF	9.80	G24q-1
26W	Electronic, HPF	9.80	G/GX24q-3
32W	Electronic, HPF	9.80	GX24q-3

LITHONIA LIGHTING

VR1C VR2C



Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for applications that require maximum light capabilities for safety and security.

Features

Lens – VR1C: White opal polycarbonate, UV-stabilized, nominal thickness .125", softens light across entire surface. VR2C: Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Smooth exterior for easy cleaning. Lens secured by either stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hexhead screws (two of each included).

Housing - One-piece, die-cast aluminum, low copper alloy, finished in dark bronze polyester powder coat.

Ballast - Compact fluorescent: electronic, HPF multi-volt, starting temperature 0°F. Exception: 22DTT and 28DTT are electromagnetic, 120V only. HID: NPF for high pressure sodium and HPF for metal halide.

Socket - CFL: Thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

Lamps - 35K compact fluorescent lamp(s). MH: reduced-UV lamp is standard. Lamp included unless L/LP is specified.

Installation - Wall-mount only for HID. For maximum vandal resistance, use four hole mounting pattern.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Ordering Information

	Series		Lamp type
VR1C VR2C	Opal lens Clear prismatic lens	Double twin-tube 13DTT 18DTT 22DTT ¹² 26DTT 28DTT ¹² Triple-tube 26TRT 32TRT 42TRT	High pressure sodiu 35S 50S 70S <u>Metal halide³</u> 50M

	Lens type	Voltage
(blank)	VR1C: White opal VR2C: Clear prismatic	120 277
HBE	Horizontal black eyelid	347 MVOLT ⁴
PBT	Perimeter black trim	
VBE	Vertical black evelid	

Example: VR2C 50M 120 IR LPI

Lamp' LPI Lamp included (standard) L/LP Less lamp

(Order separately)

Options		
Emergency circuit (Incandescent, 25W max.) ⁵		
Internal fast-blow fusing ^{6,7}		
Internal slow-blow fusing ^{6,7}		
R Internal horizontal reflector ³		
Internal reflector ³		
. Night-light (Incandescent, 7W max.) ^{1,5}		
PE Photocell ⁷		
SF Single fuse (120, 277, 347) ⁸		
CSA CSA Certified		
NOM Certified ⁸		

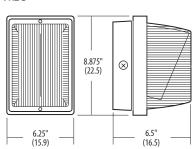
For other options and accessories, see below and

pages 418-419.

- 1 120V only.
- 2 2-pin 15mm lamp.
- 3 Must specify IR or IHR on wall-mount HID units.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120 V and 277 V.
- 5 Maximum wattage lamp provided.
- Available for compact fluorescent units only.
- Must specify voltage. Not available with MVOLT.
- 8 Available for HID units only.
- Lamp(s) included unless L/LP is specified.

 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless otherwise \ noted.$

VR2C



Lamp/Fixture Data							
	Weight Lamp						
Wattage	Ballast	lbs.	base				
Fluorescent							
13W	Electronic, HPF	5.45	G24q-1				
18W	Electronic, HPF	5.45	G24q-2				
22W	Electromagnetic, HPF	5.60	GX32d-2				
26W	Electronic, HPF	5.75	G/GX24q-3				
28W	Electromagnetic, HPF	5.75	GX32d-3				
32W	Electronic, HPF	5.75	GX24q-3				
42W	Electronic, HPF	5.75	GX24q-4				
High pressu	High pressure sodium						
35W	R-NPF	5.75	medium				
50W	R-NPF	5.90	medium				
70W	R-NPF	6.20	medium				
Metal halide							
50W	HX-HPF (120)	6.60	medium				
50W	R-NPF (277)	6.60	medium				

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.
For external visors, s	, ,
i oi external visors, s	есераустто.



Use for entrances, stairwells, corridors, other pedestrian areas.

Features

Lens - Injection-molded, one-piece, UV-stabilized polycarbonate. Optical system is sealed and gasketed to inhibit entrance of outside contaminants. Standard finish is dark bronze (DDB) corrosion-resistant polyester enamel.

Housing - Normal power factor (NPF) backplate is heavy-gauge steel. High power factor (HPF) housing is heavy-duty cast aluminum, finished in dark bronze. Electrical components are mounted to backplate (NPF) or cast housing (HPF) for maximum heat-dissipation. External hardware is treated for corrosion resistance and includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Ballast - 120V reactor normal (RNP) or high-power factor (RHP) or high-reactance, high power factor (XHP). 100% copper wound and factory tested. TRT ballasts are HPF electronic, UL listed.

Socket - HPS: Medium-base porcelain socket, vertically oriented with copper alloy nickel-plated screw shell and center contact. (UL listed 660W, 600V). Compact fluorescent socket is positve latching thermoplastic.

Installation – NPF unit mounts to standard J-box. Surface conduit mount requires extension collar accessory. HPF units may be mounted flush to wall or horizontally facing down. HPF units have 34" threaded hub for wiring access. Closed-cell gasketing seals junction.

UL Listed (standard). CSA or NOM Certified (see



Example: TWL 50S 120 SF LPI

Listings Options). UL listed for wet locations. IP64 rated.

Ordering Information

High pressure sodium 120 TWL 3551 20834 TWL 505 24034 TWL 705 2773 Fluorescent 3473 TWL 7TT1 (2-pin) TB3.5 TWL 9TT1 (2-pin) MVOLT6 TWL 13TT1 (2-pin) TWL 13DTT1 (2-pin) TWL 13DTT1 (2-pin) TWL 22DTT1 (2-pin) TWL 26DTT (4-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent				
High pressure sodium				
TWL 35S¹ 208³.4 TWL 50S 240³.4 TWL 70S 277³ Fluorescent 347³ TWL 7TT¹ (2-pin) TB³.5 TWL 9TT¹ (2-pin) MVOLT⁴ TWL 13TT¹ (2-pin) TWL 13DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent		Serie	es	Voltage
TWL 50S 2403.4 TWL 70S 277³ Fluorescent 347³ TWL 7TT¹ (2-pin) TB³.5 TWL 9TT¹ (2-pin) MVOLT⁴ TWL 13TT¹ (2-pin) TWL 13DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	High pres	ssure sodiun	1	120
TWL 70S 2773 Fluorescent 3473 TWL 7TT1 (2-pin) TB3.5 TWL 9TT1 (2-pin) MVOLT6 TWL 13TT1 (2-pin) TWL 13DTT1 (2-pin) TWL 22DTT1 (2-pin) TWL 26DTT (4-pin) TWL 28DTT1 (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	35S ¹		208 ^{3,4}
Fluorescent 3473 TWL	TWL	50S		240 ^{3,4}
TWL 7TT¹ (2-pin) TB³.5 TWL 9TT¹ (2-pin) MVOLT⁴ TWL 13TT¹ (2-pin) TWL 13DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	70S		277 ³
TWL 9TT1 (2-pin) MVOLT6 TWL 13TT1 (2-pin) TWL 13DTT1 (2-pin) TWL 22DTT1 (2-pin) TWL 26DTT (4-pin) TWL 28DTT1 (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	Fluoresce	<u>ent</u>		347 ³
TWL 13TT¹ (2-pin) TWL 13DTT¹ (2-pin) TWL 22DTT¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	7TT ¹	(2-pin)	TB ^{3,5}
TWL 13DTT ¹ (2-pin) TWL 22DTT ¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT ¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	9TT ¹	(2-pin)	MVOLT ⁶
TWL 22DTT¹ (2-pin) TWL 26DTT (4-pin) TWL 28DTT¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	13TT ¹	(2-pin)	
TWL 26DTT (4-pin) TWL 28DTT ¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	13DTT ¹	(2-pin)	
TWL 28DTT ¹ (2-pin) TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	22DTT ¹	(2-pin)	
TWL 26TRT (4-pin) TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	26DTT	(4-pin)	
TWL 32TRT (4-pin) TWL 42TRT (4-pin) Incandescent	TWL	28DTT ¹	(2-pin)	
TWL 42TRT (4-pin)	TWL	26TRT	(4-pin)	
Incandescent	TWL	32TRT	(4-pin)	
	TWL	42TRT	(4-pin)	
13	Incandes	<u>cent</u>		
TWL I ^{1,2}	TWL	I ^{1,2}		

NOTES:

- 1 120V only.
- 2 A19 lamp (75W max, lamp not included).
- 3 Requires cast HPF back housing.
- 4 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional multi-volt electric ballast (for compact fluorescent) capable of operating on any line voltage from 120V-277V.
- Not available with multi-tap ballast.
- 8 HPS only. Not available in 35S.
- $9 \quad \text{Available for 120V only. Standard for 208V, 240V, 277V, 347V, and TB.} \\$
- 10 Order TWAWG with TWLMB, EP or HPF.
- 11 120V NPF units only.

	Options		
Installed			
SF	Single fuse (120V, 277V) ⁷		
PE	Photoelectric cell (button type) ⁷		
LPI	Lamp included as standard		
L/LP	Less lamp		
RHP	Reactor high power factor ballast (HPS and 120V only)		
XHP	High reactance high power factor ballast ^{8,9}		
CSA	CSA Certified		
NOM	NOM Certified (consult factory)		
Architectural colors (optional)			
DNA	Natural aluminum		
DBL	Black		
DMB	Medium bronze		
DWH	White		

DSS

Sandstone

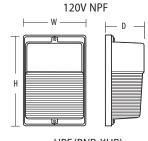
Lamp/Fixture Data				
		Lamp	Base	
Wattage	Ballast	type	type	
High pressure	sodium (med/cle	ear)		
35	RNP	E17	medium	
35	RHP	E17	medium	
50	RNP	E17	medium	
50	RHP	E17	medium	
50	XHP	E17	medium	
70	RNP	E17	medium	
70	RHP	E17	medium	
70	XHP	E17	medium	
Fluorescent (t	<u>win-tube)</u>			
7	RNP	T4	G23	
9	RNP	T4	G23	
13	RNP	T4	GX23	
Fluorescent (d	<u>louble twin-tube)</u>			
13	RNP	T4	GX23	
22	RNP	T4	GX32d-2	
26	HPF	T4	G24q-3	
28	RNP	T4	GX32d-3	
Fluorescent (triple-tube)				
26	HPF	T4	G24q-3	
32	HPF	T4	GX24q-3	
42	HPF	T4	GX24q-4	

www.lithonia.com, keyword: TWL

Accessories	(Order separately)
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 PEB1 CSA	Photoelectric control kit, 120V
TWLMB	Cast aluminum mounting box
TWLWG	Wireguard ¹⁰
TWLEP1	Extension collar 11/2" deep11
TWLEP2	Extension collar 2 ¹ / ₈ " deep ¹¹
Forotherontions and a	ccessories, see pages 418-419

 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless \ otherwise \ noted.$

	TWL	TWL
	120VNPF	HPF
Height	101/2(26.7)	103/4(27.3)
Width	63/4(17.2)	71/8(18.1)
Depth	37/8(9.8)	711/16(19.5)
Weight	4 lbs (1.8 kg)	8 lbs (3.6 kg)



HPF (RNP, XHP)



LITHONIA ROUGH SERVICE

408

VR4



Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Lens - Clear prismatic, UV-stabilized polycarbonate, nominal thickness .125". Prism optics provide uniformity with maximum spacing-to-mounting height ratios. Torx® T-20 and standard stainless steel slotted hex-head screw (one each included).

Backplate - Heavy-duty, 16-gauge cold-rolled steel. White polyester powder coat for high reflectance, durability, and corrosion resistance. Closed-cell neoprene gasket seals out moisture and contaminants.

Ballast - VR3: electromagnetic, NPF, with starting temperature of 0°F for 7W and 25°F for 9W.

VR4: Class P, electronic, HPF multi-volt,

THD<10%, starting temperature 0°F. Exceptions are 7TT, 9TT, 13TT, 22DTT, 28DTT. Electromagnetic, NPF, 120V only.

Socket - Compact fluorescent: thermoplastic socket. Incandescent: unglazed porcelain snap-in socket with aluminum screw shell. Spring-loaded steel clips hold socket tightly in place. VR3 provided with one socket and VR4 provided with two sockets. SM1 single socket option available.

Lamps – 35K compact fluorescent lamp(s) included unless L/LP is specified. Incandescent lamp(s) not included.

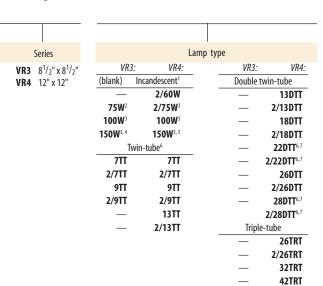
Installation: Keyhole slots simplify wall or ceiling installation. For maximum vandal resistance, use fourhole mounting pattern.

Listings

UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Example: VR4 26DTT MVOLT EC LPI

Ordering Information



Voltage 120 277 347 MVOI T Lens type Clear prismatic (blank) White polycarbonate

Options AL Aluminum backplate EC Emergency circuit (Incandescent, 25W max.)9 **Dual switching** Four screws per unit 45 Internal fast-blow fusing 10,11 Internal slow-blow fusing 10,11 GMF

Internal reflector IR NL Night-light (Incandescent, 7W max.)6,9 Single medium-base incandescent socket⁵ Low-energy diode extended lamp life12 XT CSA Certified

For other options and accessories, see below and pages

Lamps¹³ Lamp(s) included (standard) Less lamp(s)

Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

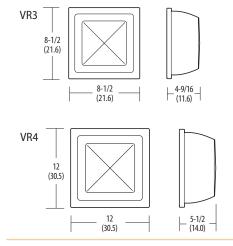
RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin

For extension boxes and external visors, see page 418.

418-419

Lamp

- 1 Leave lamp type information blank.
- 2 Maximum ceiling-mount wattage
- 3 Wall-mount only.
- Available for base-up wall mounting using an A21 lamp.
- Single socket Incandescent on wall: order SM1 option
- 2-pin 15mm lamp
- . $\label{lem:multi-volt} {\color{blue} Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any}}$ line voltage between 120V and 277V.
- 9 Maximum wattage lamp provided.
- 10 Available for compact fluorescent units only.
- 11 Must specify voltage. Not available with MVOLT.
- 12 Available for Incandescent units only
- B Compact fluorescent lamp(s) included unless L/LP is specified.



Dimensions are shown in inches (centimeters) unless otherwise noted.

Weight Wattage Ballast lhs. hase Incandescent 60W 5.80 A19IF 75W 5.50 A19IF 100W 5.50 A21IF 150W 5.50 A21IF Fluorescent Electromagnetic, NPF 5.00 7W G23 5.80 G23 9W Electromagnetic 13W Electromagnetic, NPF GX23 5.45 Flectronic HPF 13W 5.45 G24q-1 Electronic, HPF 18W 5.60 G24q-2 22W Electromagnetic, HPF 5.60 GX32d-2 26W Electronic, HPF 4.65 G/GX24q-3 28W Electromagnetic, HPF 5.75 GX32d-3 32W Electronic, HPF 6.00 GX24q-3 GX24q-4 42W Electronic, HPF

Lamp/Fixture Data

INTHONIA LIGHTING

www.lithonia.com, keywords: VR3 and VR4

General illumination for rough service (vandalresistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

Features

Lens - Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Lens secured by stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four each included). One-piece silicone perimeter gasket seals out moisture and contaminants.

Reflector - VR3C, VR4C: horizontal reflector, ceiling-mount or wall-mount (with IR option). VR4CV: vertical reflector, ceiling-mount only.

Housing - One-piece, die-cast aluminum, low copper alloy, finished in dark bronze polyester powder coat.

Ballast - Fluorescent: electronic, HPF multi-volt, starting temperature 0°F. (7TT, 22DTT and 28DTT are electromagnetic, 120V only). HID: High reactance, HPF (35S is NPF. 175M is Constant-Wattage Autotransformer).

Socket - Fluorescent: horizontally mounted thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

Lamps – 35K 4-pin lamp(s) standard for compact fluorescent. MH: Reduced UV lamp is standard. Included unless L/LP is specified.

Installation - Three 1/2" threaded plugs for conduit entry or mount over outlet box. Four mounting holes for maximum vandal resistance.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

VR3C VR4C **VR4CV**



Example: VR3C 32TRT 120 NL LPI

Lamps14

included

(standard)

LPI Lamp(s)

Ordering Information

Ç,	eries			Lam	p type		
36	erres			Laiii	ip type		
VR3C	8½" x 8½"	VR3C:	VR4C:		VR3C:	VR4C:	VR4CV:
VR4C	12" x 12"	Twir	n-tube1			Triple-tube	
VR4CV	12" x 12"	2/7TT	2/7TT		26TRT	26TRT	_
		2/9TT	2/9TT		2/26TRT	2/26TRT	_
		_	13TT		32TRT	32TRT	_
			2/13TT		_	2/32TRT	_
		Double	twin-tube		42TRT	42TRT	_
		13DTT	13DTT		_	2/42TRT	_
		2/13DTT	2/13DTT		High p	ressure sodium	
		18DTT	18DTT		35S1	35S1	35S
		2/18DTT	2/18DTT		50S	50S	505
		22DTT ^{1,2}	22DTT ^{1,2}		705	70S	709
		2/22DTT ^{1,2}	2/22DTT ^{1,2}		1005	1005	1005
		26DTT	26DTT		_	_	1505
		2/26DTT	2/26DTT		1	Metal halide	
		28DTT ^{1,2}	28DTT ^{1,2}		50M	50M ³	50M ³
		_	2/28DTT ^{1,2}		70M	70M ³	70M
		Lamp/Fixture Dat	ta		100M	100M	100M
				Lama	_	_	150M ³
			Weight	Lamp	-	_	175M
141-44		D - II 4	II	L			

— 2/20VII					
Lamp/Fixture Data					
		Weight	Lamp		
Wattage	Ballast	lbs.	base		
<u>Fluorescent</u>					
13W	Electromagnetic, NPF	8.50	GX23		
18W	Electronic, HPF	8.50	G24q-2		
22W	Electromagnetic, HPF	9.00	GX32d-2		
26W	Electronic, HPF	8.50	G/GX24q-3		
28W	Electromagnetic, HPF	9.30	GX32d-3		
32W	Electronic, HPF	8.50	GX24q-3		
42W Electronic, HPF 8.55 GX					
High pressure	<u>sodium</u>				
35W	R-HPF	13.65	medium		
50W	HX-HPF	16.30	medium		
70W	HX-HPF	12.80	medium		
100W	HX-HPF	14.60	medium		
150W	HX-HPF	11.45	medium		
Metal halide					
50W	HX-HPF	11.40	medium		
70W	HX-HPF	12.80	medium		
100W	HX-HPF	14.95	medium		
150W	HX-HPF	15.85	medium		
175W	CWA	15.40	mogul		

Voltage
120 208 ⁴
240 ⁴
277 347
480 ⁴ TB ^{4,5}
MVOLT ^{6,7}

120 208 ⁴ 240 ⁴ 277 347 480 ⁴ TB ^{4,5} MVOLT ^{6,7}
240 ⁴ 277 347 480 ⁴ TB ^{4,5}
277 347 480 ⁴ TB ^{4,5}
347 480 ⁴ TB ^{4,5}
480 ⁴ TB ^{4,5}
TB ^{4,5}
MVOLT ^{6,7}

_	175M	

NOTES:

- 1 120V only.
- 2-pin 15mm lamp
- Not available in 480V.
- Available for HID units only. Multi-tap ballast. US: 120V, 208V, 240V, 277V. Canada: 120V/347V.
- Available for compact fluorescent units only Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V and 277V.
- Must specify voltage. Not available with MVOLT or TB.
- Available with 26DTT and all single TRT lamps; excludes 42TRT.
- 10 Available with 2/26TRT VR4C only.
- 11 Cannot be ordered with EC or PE options.
- 12 Maximum wattage lamp provided.
- 13 HID wall-mounted units require IR option.
- 14 Lamp(s) included unless L/LP is specified.

Options ADEZ Advance Mark X electronic dimming ballast^{6,8,9} **DMHL** Lutron Hi-lume electronic dimming ballast^{6,8,9,10} Single fuse (120, 277, 347V)^{4,8} L/LP Less lamp(s) Double fuse (208, 240, 480V)^{4,8} DF Dual switching 11 2/1 Two 1-lamp ballasts

QRS Quartz restrike system^{3,4,12} **EC** Emergency circuit (Incandescent, 25W max)¹²

Night-light (Incandescent, 7W max.)^{1,12} NL PE Photocell⁸

IR Internal reflector¹³

GLR Internal fast-blow fusing^{6,8} **GMF** Internal slow-blow fusing^{6,8} CSA Certified CSA

NOM NOM Certified4

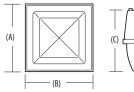
For other options and accessories, see below and pages 418-419.

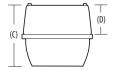
Accessories (Order separately) Torx TX20 hex-base driver bit for tamper-resis-**RK1 T20BIT** tant screws with center reject pin. RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

For external visors, see page 418.

$Dimensions \ are \ shown \ in \ \textbf{inches} \ (\textbf{centimeters}) \ unless \ otherwise \ noted.$

	VR3C	VR4C/VR4CV
A. Height:	8 ¹⁵ /16(22.7)	12(30.5)
B. Width:	8 ¹⁵ /16(22.7)	12(30.5)
C. Overall depth:	8 (20.3)	9 ¹ / ₂ (24.1)
D. Housing depth:	$3^3/4(9.5)$	4(10.2)







LITHONIA ROUGH SERVICE

410

VR4C VR4CV

Induction Lighting System



Intended Use

For areas that require higher levels of ilumination and where maintenance is an issue (tunnels, airports, public facilities, freezers). Provides extreme long life for rough service and special environment applications.

Features

Lens – Clear prismatic polycarbonate, UV-stabilized, nominal thickness .125". Lens secured by standard stainless steel slotted hex-head screws (four each included). One-piece silicone perimeter gasket seals out moisture and contaminants.

Reflector – Horizontal reflector used with VR4C lcetron system; vertical reflector used with VR4CV QL system.

Housing – One-piece, die-cast aluminum, low copper alloy, finished in white polyester powder coat. Closed-cell neoprene gasket seals against mounting surface for L/JB option. Provided with

mounting brackets for four-point mounting. Weatherproof junction box and cover provided as standard for surface conduit wiring.

Lamps – Discharge vessel included and installed. Icetron lamp is 35K; QL lamp is 30K.

Installation – Ceiling-mount only. Mounting brackets and junction box allow fixture to be installed without ever opening. For outlet box installation, see L/JB option. Wire leads will be routed out the rear conduit opening.

Listings

UL Listed to US and Canadian safety standards (see Options). UL listed for 25°C ambient and wet locations.

Ordering Information

Series	Lamp type	Voltage
VR4C 12" x 12"	70IL 70W ICETRON® induction lighting system ¹ 100IL 100W ICETRON® induction lighting system ¹	MVOLT ²
VR4CV 12" x 12"	55IL 55W QL induction lighting system85IL 85W QL induction lighting system	120 240 TVOLT ^{3,4}

Example: VR4CV 85IL TVOLT LPI

Options

EC Emergency circuit (Incandescent, 25W max.)⁵
L/JB Less junction box

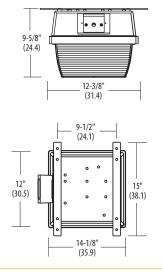
CSA Listed and labeled to comply with Canadian Standards.

TRS Tamper-resistant screws
Forother options and accessories, see below and pages

418-419.

Lamps⁶
LPI Lamp included

 $Dimensions are shown in {\it inches} \ ({\it centimeters}) \ unless \ otherwise \ noted.$



Induction Lighting:

High Frequency Generator/Ballast – Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life. The current travels through coils on the lamp (in the ICETRON® system) or through coils on the Power Coupler (in the QL system) to create the magnetic (inductive) field. Suitablefor ambient temperatures ranging from -40°C to 25°C.

Discharge Vessel/Lamp – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light at 3000°K (QL system) or 3500°K (ICETRON° system) and an 80+ CRI.

Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for TRS option.

RK1 T20DRV Torx TX20 screwdriver for TRS option.

NOTES:

- 1 ICETRON is a registered trademark of OSRAM SYLVANIA.
- $2 \quad \text{Multi-volt electronic ballast capable of operating on any line voltage between} \\ 120V \text{ and } 277V.$
- ${\it 3} \quad {\it Tri-volt electronic ball ast capable of operating on any line voltage between 200V} \\ {\it and 277V}.$
- 4 Available with 85IL only.
- 5 Maximum wattage lamp included.
- 6 Lamp included and installed.



www.lithonia.com, keyword: VR4CV-IL

General illumination for rough service (vandalresistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Lens – UV-stabilized drop dish is clear, prismatic polycarbonate, nominal thickness .125 inch.

Housing – 16-gauge cold-rolled steel finished in white polyester powder coat.

Door – 16-gauge cold-rolled steel door secured by stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four of each included). Finish is white polyester powder coat.

Ballast – Fluorescent: Class P, electronic, HPF multi-volt. THD <10%. Start temperature 0°F. (22DTT, 28DTT are electromagnetic, 120V only).

HID: High reactance, HPF (175M is constant wattage autotransformer. 35S is NPF).

Socket – Fluorescent: horizontally mounted thermoplastic. HID: medium-base porcelain with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated. 175W metal halide is mogul-base.

Lamps – 35K lamp(s) included for compact fluorescent. Metal halide standard with reduced-UV lamp (except 175M). Included unless L/LP is specified.

Installation – Separate yoke mounting frame provided with brackets for use with C-channel bar hangers, which are not included.

Listings

UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations (wet locations in covered ceiling applications only).





Example: VRR 70S 120 SF LPI

Lamps¹³
LPI Lamp(s)
included
(standard)
L/LP Less lamp(s)

Ordering Information

Series	Lar	mp type
VRR	Incandescent¹ (Leave blank) <u>Twin-tube</u> 2/13TT <u>Double twin-tube</u> 2/18DTT 2/22DTT¹.²	High pressure sodium 355 505 705 1005 1505 Metal halide
	2/26DTT 2/28DTT ^{1,2} 1riple-tube 26TRT 2/26TRT 32TRT 2/32TRT 42TRT 2/42TRT	50M ³ 70M ³ 100M 150M ³ 175M

NOTES:

- 1 120V only.
- 2 Two-pin 15mm lamp.
- 3 Not available with 480V.
- 4 Requires ALDF option.
- 5 Available for HID units only
- 6 Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating any line voltage 120V to 277V.
- $7 \quad \text{Available for compact fluores centurits only}.$
- 8 Must specify voltage. Not available with MVOLT or TB.
- $9 \quad \text{Available with 26DTT and all single TRT lamps; excludes 42TRT.} \\$
- 10 Available with 2/26DTT and 2/26TRT.
- 11 Maximum wattage lamp provided.
- 12 Available for Incandescent units only.
- 13 Lamp(s) included unless L/LP is specified.

	Lens type			Options
(blank) Clear prismatic WP White polycarbonate DHL Drop Holophane® glass⁴ Voltage 120 2085		ADEZ Advance Mark X electronic dimming ball DMHL Lutron Hi-lume electronic dimming ball ALDF Aluminum doorframe for DHL lens option SF Single fuse (120, 277, 347V) ^{5,8}		
		Voltage		Double fuse (208, 240, 480V) ^{5,8}
		208 ⁵	EC	Quartz restrike system ^{3,5,11} Emergency circuit (Incandescent, 25W max.) ¹¹ Night-light (Incandescent, 7W max.) ^{1,11}
	240 ⁵ 277			Internal fast-blow fusing ^{7,8} Internal slow-blow fusing ^{7,8}
		347 480 ⁵ MVOLT ^{6,7}	WL XT	Wet location Low-energy diode, extended lamp life ¹²
		MAOLI		CSA Certified
			Forother	ptions and accessories, see below and pages 418-419.

			For other options
	Lamp/Fixture	Data	
Wattage	Ballast	Weight lbs.	Lamp base
Incandesce	<u>nt</u>		
150W	-	23.70	A21IF
Fluorescen	<u>ıt</u>		
9W	Electromagnetic, NPF	23.30	G23
13W	Electromagnetic, NPF	27.10	GX23
13W	Electronic, HPF	27.10	G24q-1
18W	Electronic, HPF	27.10	G24q-2
22W	Electromagnetic, HPF	25.35	GX32d-2
26W	Electronic, HPF	25.35	G24q-3
28W	Electromagnetic, HPF	25.35	GX32d-3
32W	Electronic, HPF	25.35	GX24q-3
42W	Electronic, HPF	25.35	GX24q-4
High press	<u>ure sodium</u>		
35W	R-HPF	26.00	medium
50W	HX-HPF	28.95	medium
70W	HX-HPF	27.88	medium
100W	HX-HPF	26.88	medium
150W	HX-HPF	32.50	medium
Metal hali	<u>de</u>		
50W	HX-HPF	28.35	medium
70W	HX-HPF	30.75	medium
100W	HX-HPF	30.75	medium
150W	HX-HPF	30.75	medium
175W	CWA	31.38	mogul

www.lithonia.com, keyword: VRR

tz restrike system ^{3,5,11}					
rgency circuit (Incandescei	nt, 25W max.) ¹¹				
-light (Incandescent, 7W max.) ^{1,11}					
rnal fast-blow fusing ^{7,8}					
nal slow-blow fusing ^{7,8}					
location					
-energy diode, extended la	amp life ¹²				
Certified					
and accessories, see below and	d pages 418-419.				
Accessories	(Order separately)				
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.				

RK1 T20DRV

	openings.	rovides a ciea	ın eage	ior ceiling
Dimensions are shown	in inches (centim	eters) unless of	therwiser	noted.
	1-3/8 (3.5)	1 (2.5)	10-3/4 (27.0)	13-1/4 (33.6)
ce	iling opening			
	12-7/8 (32.7)			
l'	13-3/8			

with center reject pin.

Torx TX20 screwdriver for tamper-resistant screws

Plactor frame Provides a clean edge for ceiling



VDC VDS



Intended Use

General illumination for rough service (vandal resistant) applications. Designed for indoor and outdoor applications like corridors, walkways, pedestrian tunnels, canopies, and drive-through areas.

Features

Housing – Heavy-duty, 16-gauge, cold-rolled steel, one-piece housing for corner-mounted (VDC) or surface-mounted (VDS) applications. Housing and reinforcing members welded together for strength. Optional stainless steel or aluminum housings available.

Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens – Clear, internally frosted, UV-stabilized, injection-molded polycarbonate lens standard. Smooth exterior for easy maintenance. Lens gasketed against moisture and contaminants and secured to housing with six stainless steel Torx®

T-20 tamper-resistant screws (included).

Ballast Cover – Ballast and lampholders are secured to channel cover to provide easy installation and maintenance. Channel-cover safety chains included.

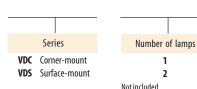
Ballast – Class P, high power factor ballast is UL listed. Ballast for 32W is standard GEB10IS with a 0°F starting temperature.

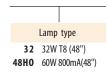
Listings

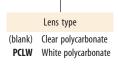
UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations (wet locations in covered ceiling applications only).

Example: VDC 2 32 MVOLT GEB10IS

Ordering Information









Options AL Aluminum housing, white cw Cold-weather ballast^{1,2} Cold-weather ballast, -20°F starting3,4 Emergency lighting (300 lumens)^{5,6} **ELDW** Emergency lighting (500 lumens)^{6,7} Emergency lighting (600 lumens)^{6,7} **EL6DW** EL14DW Emergency lighting (1400 lumen)⁷ **GEB10IS** Electronic ballast, instant start **GEB10RS** Electronic ballast, rapid start GLR Internal fast-blow fusing⁸ RIF1 Radio interference filter, one per fixture STS Stainless steel housing, natural Stainless steel housing, white WL Wet location (covered ceiling only)¹ CSA CSA Certified

For other options, see page 419.

- Not available with ELor CEL option.
- 2 Not recommended for use in ambient temperatures exceeding 40°F.
- 3 Not available with 48HO 347V.
- $4 \quad \text{Must be specified with 48HO for cold weather.} \\$
- 5 Will default to 300 or 600 lumens depending on lamp type (32 and 40-300, 48 and 48H0-600).
- 6 Luminaires ordered with DW option (Example: EL5DW) will bear UL emergency lighting equipment label for damp or wet locations, depending on fixture.
- 7 Not available with 48HO.
- 8 Specify voltage.

		Availabili	ty and Dimensions		
Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VDC VDS	1, 2 1, 2	32, 48H0 32, 48H0	7 ¹ / ₂ " (19.1) 7 ⁹ / ₁₆ " (19.2)	6 ¹ /8" (15.5) 4 ¹ /2"(11.5)	50 ¹ /16" (127.2) 50 ⁹ /16" (128.5)

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.



For areas that require higher levels of protection from physical assault or environmental elements, while providing proper illumination for safety and security.

Features

Housing – Heavy-duty, 16-gauge, cold-rolled steel, one-piece housing for durability and security.

Ballast Cover – Ballast and lampholders are installed to wireway cover to provide easy installation and service. Wireway cover safety chains included.

Socket – Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

Finish – Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

Lens – Clear prismatic, injection-molded and UV-stabilized polycarbonate lens (.130" thick) that completely encloses face and all sides of housing. No exposed metal surfaces. Optional lens (SCE) features easily removable molded-in lens membrane centered over end plate knockouts for surface conduit and wiring access. Includes gaskets (one pair, not installed). Lens is secured to housing with tamper-resistant Torx® T-20 screws with center reject pin (included).

Gasket – One-piece, closed cell neoprene pad mounting gasket is factory installed to help seal against moisture, dust and insects.

Ballast – GEB10IS ballast for T8 lamps is electronic with 0°F starting temperature.

Listings

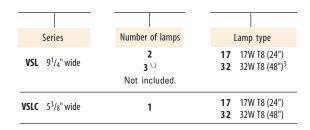
UL Listed to US and Canadian safety standards. CSA Certified (see Options). UL Listed for 25°C ambient and wet locations in covered ceiling applications.

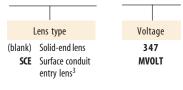
VSLC VSLC



Example: VSL 2 32 MVOLT GEB10IS

Ordering Information





	Options		
DL	Damp location		
ELDW	Emergency battery pack (300 lumens) ^{2,4}		
GEB10IS	Instant start electronic ballast		
GEB10RS	Rapid start electronic ballast		
GLR	Internal fast-blow fusing ⁵		
RIF1	Radio interference filter, one per fixture		
CSA	Listed and labeled to comply with Canadian		
	Standards		

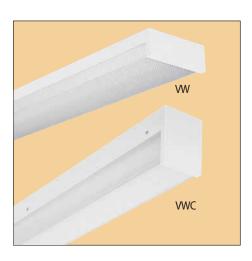
For other options, see page 419.

- 1 3-lamp model available in 32W T8 only.
- 2 Available in 4-foot fixtures only.
- $3\quad Provided with one pair of surface conduit gaskets.$
- 4 Luminaires ordered with **ELDW** option (Example: **EL5DW**) will bear UL emergency lighting equipment label for damp or wet location, depending on fixture
- 5 Specify voltage.

		Av	ailability and Dime	ensions	
Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VSL	2	17 32	9 ¹ / ₄ " (23.5) 9 ¹ / ₄ " (23.5)	3³/ɛ" (8.6) 3³/ɛ" (8.6)	25³/s" (64.5) 49³/s" (125.4)
	3	32	91/4" (23.5)	33/8" (8.6)	493/8" (125.4)
VSLC	1	17	53/8" (13.7)	41/2" (11.4)	253/4" (65.4)
	•	32	53/8" (13.7)	41/2" (11.4)	493/4" (126.4)

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.
SCG	Surface conduit gasket (one pair, not installed)





Intended Use

General illumination for rough service (vandal resistant) applications. Designed for use in corridors, entryways, meeting rooms, classrooms, locker rooms and more.

Features

Housing – One-piece, 16-gauge cold-rolled steel housing is die-formed and welded together with reinforcing members for strength. Aluminum and white stainless steel housings available (see Options).

Finish – All metal parts are post-painted in white polyester powder coat for smooth, finished edges and corrosion resistance.

Lens - UV-stabilized polycarbonate lens is extruded A12 prismatic pattern with internal linear side prisms, .130" thick polycarbonate (standard). Secured to housing with stainless steel Torx® T-20 tamper-resistant screws (included).

Ballast Cover - Ballast and lampholders are

secured to channel cover or to channel to provide easy installation and service.

Socket - Medium bi-pin, highly heat resistant, with internal locking collar for positive lamp retention and resistance to impact and vibration.

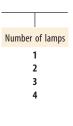
Ballast - Ballast for T8 lamps is electronic with 0°F starting temperature.

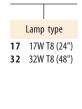
Listings

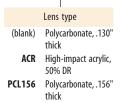
UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations.

Ordering Information









Voltage 347 MVOLT

Example: VW 2 32 MVOLT GEB10IS

Options

AL Aluminum housing **ELDW** Emergency lighting (300 lumens)¹ GEB10IS Electronic ballast, instant start **GEB10RS** Electronic ballast, rapid start Internal fast-blow fusing² GLR RIF1 Radio interference filter, one per fixture **STSW** Stainless steel housing, white CSA CSA Certified

For other options, see page 419.

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject nin.

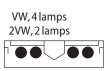
- $Luminaires\, ordered\, with\, ELDW\, option\, (Example\, EL5DW)\, will\, be arthe\, UL\, Emer-line and the property of $gency \, Lighting \, Equipment \, label \, for \, damp \, or \, wet \, locations, \, depending \, on \, the \,$
- 2 Specify voltage.











		Availabi	lity and Dimension	S	
Series	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
	2	32	83/8 (21.3)	3 ¹ /4 (8.3)	49 (124.5)
VW	3	32	83/8 (21.3)	5 (12.7)	49 (124.5)
	4	32	131/4 (33.7)	$3^3/8$ (8.6)	49 (124.5)
2VW	2	32	13 ¹ / ₄ (33.7)	33/8 (8.6)	49 (124.5)
VWC	1,2	17 32	4 ¹ / ₂ (10.8) 4 ¹ / ₂ (10.8)	5 ¹ /4 (13.3) 5 ¹ /4 (13.3)	25 ³ / ₈ (64.5) 49 ³ / ₈ (125.4)

General illumination for rough service (vandal resistant) applications. Ideal for tunnels, canopies, shipping docks, refrigerated areas, food processing, or any non-hazardous environment that requires a wet location listing.

Features

Housing – Impact-resistant, UV-resistant, fiberglass-reinforced polyester housing with cold rolled steel enclosed wireway.

Lens – High-impact acrylic diffuser standard. Secured to fully-gasketed housing by captive, tamper-resistant cam-action latches.

For non-tamper-resistant fixture, see DMW fluorescent industrial, page 91.

Latches – Six tamper-resistant latches per 4' unit, ten per 8' unit.

Finish – Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate

pretreatment ensures superior paint adhesion and rust resistance.

Installation – Suitable for surface, chain or stem mounting.

Ballast – Thermally-protected, Class P, High Power Factor electronic ballast standard.

Listings

UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations covered ceiling installations.





Ordering Information

Series

VRI
For tandem double length unit, add prefix T. Example: TVRI

Number of lamps

1 2 3¹

3 Not included.

Lamp type

32 32W T8 (48") **48** 38W Slimline (48") **48HO** 60W 800 mA (48")

96H0 110W 800mA (96") **96T8** 59W T8 Slimline (96") **96T8H0** 86W T8 380mA (96") Lens type²

(blank) High-impact acrylic, 50% DR **DP** High-impact deep acrylic,
50% DR²

PCL Polycarbonate³

Example: VRI 2 32 MVOLT GEB10IS

Voltage

347 MVOLT **Options**

GEB10IS T8 electronic ballast, instant start

GEB10RS T8 electronic ballast, rapid start

CSA CSA Certified

For other options and accessories, see below and pages 113 and 419.

NOTES:

- 1 32WT8only
- 2 Deep lens is standard on 4' slimline, HO (800mA) and 8' fixtures. To match appearance on 4' rapid start, order DP option.
- 3 Standard depth lens provided.

Accessories (Order separately)

RK1 T20BIT Torx TX20 hex-base driver bit for tamper-resis-

tant screws with center reject pin. **RK1 T20DRV** Torx TX20 screwdriver for tamper-resistant screws

with center reject pin.

Availability and Dimensions						
Series	Lamps per cross section	Lamps per fixture	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
VRI	1, 2, 3 ¹	1, 2, 3	32	75/8 (19.4)	43/4 (12.1)	50 (127.0)
VRI (ARDP option)	1, 2, 3 ¹	1, 2, 3	32	7 ⁵ /8 (19.4)	55/8 (14.3)	50 (127.0)
TVRI	1, 2	2, 4	32, 48, 48H0	75/8 (19.4)	55/8 (14.3)	98 (248.9)
VRI	1,2	1,2	96H0 96T8, 96T8H0	75/8 (19.4)	55/8 (14.3)	98 (248.9)



VRS



Intended Use

General illumination for rough service (vandal resistant) applications. Ideal for areas where safety and security are a concern.

Features

Housing – Clean design includes overlap mitered housing and door frame corners. Formed from cold-rolled steel. Housing corners spot welded for strength.

Door – Flush steel door frame secured by four stainless steel tamper-resistant Torx® T-20 with center pin screws, two per side. Three tamper-resistant screws per side available. (Specify TP6 option).

Finish – Painted parts finished with high gloss, baked white enamel. Five-stage iron-phosphate

pretreatment ensures superior paint adhesion and rust resistance.

Lens – Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

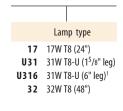
Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard.

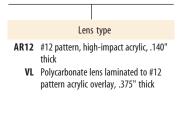
Listings

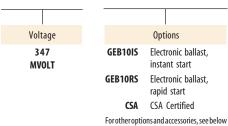
UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and damp locations.

Ordering Information

Series	Number of lamps
VRS 1' wide 2VRS 2' wide	1 2 3 4 6







Example: VRS 2 32 AR12 MVOLT GEB10IS

and page 112 and 419.

NOTES:

1 Not available on 3-lamp fixtures. Use U31.

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

			Availability and Dim	ensions		
Nominal Size	Series	Number of lamps	Lamp type	Width in. (cm)	Depth in. (cm)	Length in. (cm)
1x4	VRS	1, 2, 3	32	12(30.5)	33/4 (9.5)	48(121.9)
	2VRS	2, 3	17, U31, U316	24(61.0)	33/4 (9.5)	24(61.0)
2x2	2VRS	1, 2	17, 031, 0310	24(61.0)	33/4 (9.5)	24(61.0)
2x4	2VRS	2, 3, 4, 6	32	24(61.0)	33/4 (9.5)	48(121.9)



General illumination for rough service (vandal resistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

Features

Housing – Steel door frame features overlap mitered corners. Formed from cold-rolled steel and secured by stainless steel tamper-resistant Torx® T-20 screws, two per side standard (four included). Three per side available; specify TP6 option. No asbestos is used in this product. Ceiling trims available to fit most recessed applications.

Finish – Painted parts finished with high-gloss, baked white enamel. Five-stage iron-phosphate

pretreatment ensures superior paint adhesion and rust resistance.

Lens – Variety of shielding available including VL, durable .250" polycarbonate sheet laminated to .125" A12 pattern acrylic overlay. Impact-resistant acrylic or prismatic polycarbonate also available.

Ballast – Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA-certified ballast is standard.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for 25°C ambient and damp locations. Wet location (WL) option available.

For non-tamper-resistant, standard wet location fixture, see WRT fluorescent troffer, page 95.

VRT



Example: 2VRT G 4 32 AR12 347 GEB

Ordering Information

Series Trim type¹

VRT 1' wide G Lay-in grid

2VRT 2' wide F Overlapping flange

MT Modular fit-in

Number of lamps

1
2
3
4
6
Not included.

Lamp type 17W T8 (24") 20W T12 (24") 20 31W T8-U (24") U31 U316 31W T8-U (6" leg)² 32W T8 (48") 32 40W T12 (48") 40 U40 40W T12-U (6" leg)² U403 40W T12-U (3⁵/8" leg) 40W T5 lamp (24")

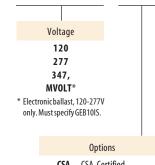
Diffuser type

AR12 #12 pattern, high impact acrylic, .140" thick

ARF12 #12 pattern, high impact acrylic with RF grid, .140"

PCL12187 #12 pattern polycarbonate, .187"

VL .250" clear polycarbonate lens laminated to A12 pattern acrylic overlay, .125" acrylic



CSA CSA Certified

NOM NOM Certified

or other options and accessorie

For other options and accessories, see below and pages 106,109 and 419.

- 1 Consult factory for screw slot and ST trim.
- 2 Not available on 3-lamp fixtures. Use U31 or U403.

Accessories	(Order separately)
RK1 T20BIT	Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for tamper-resistant screws with center reject pin.

		Availabil	ity and Dimensions	
Nominal	Series	Number	Lamp	Depth
size		of lamps	type	in. (cm)
1x4	VRT	1, 2, 3	32,40	4 ⁷ /8 (12.4)
2x2	2VRT	2	17,20,U31,U40,U316,CF40	4 ¹ /4 (10.8)
	2VRT	3	17,20	4 ¹ /4 (10.8)
	2VRT	3	U31, U403, CF40	7 (17.8)
	2VRT	4	17, 20	4 ¹ /4 (10.8)
	2VRT	4	CF40	4 ¹⁵ /16 (12.5)
2x4	2VRT	2, 3, 4, 6	32,40	4 ¹ /2 (11.4)





Accessories Shipped Separately

Extension Boxes - White

For surface conduit application. Not UL listed for wet locations.

EB1 U OS Steel. Use with VR1 or VR2.

EB3 Steel. Use with VR3.

EB4 Steel. Use with VR4.

EB1 AL Aluminum. Use with VR1 or VR2.

EB3 AL Aluminum. Use with VR3.

EB4 AL Aluminum. Use with VR4.

EBC Cast Aluminum. Use with VR1 or VR2.

Extension Boxes with Convenience Outlet - White

For surface conduit application. Outlet is 15A, 125V for easy access to electrical supply. Not for outdoor use. Not UL listed for wet locations.

 EB1 CO
 Steel. Use with VR1 or VR2.

 EB3 CO
 Steel. Use with VR3.

 EB4 CO
 Steel. Use with VR4.

 EB1 CO AL
 Aluminum. Use with VR1 or VR2.

 EB3 CO AL
 Aluminum. Use with VR3.

 EB4 CO AL
 Aluminum. Use with VR4.

Extension Boxes with Toggle Switch - White

For surface conduit application. Toggle switch is 15A, 125V for easy access to electrical supply. Not for outdoor use. Not UL Listed for wet locations.

Extension Boxes with Photoelectric Cells - White

For surface conduit application. Photoelectric cell is button type, 120V or 277V. Not for outdoor use. Not UL Listed for wet locations.

EBC PEB1	Cast Aluminum DNA silver; 120V
	Use with VR1 or VR2.
EB3 PEB1	Steel; 120V. Use with VR3.
EB3 PEB1 AL	Aluminum; 120V. Use with VR3.
EB4 PEB1	Steel; 120V. Use with VR4.
EB4 PEB1 AL	Aluminum; 120V. Use with VR4.
EB4 PEB2	Steel; 277V. Use with VR4.
EB4 PEB2 AL	Aluminum; 277V. Use with VR4.

External Visors - Dark Bronze

FHV Steel Horizontal External Visor. Use with VR1 or VR2 series 2 screw units only. Shields up and side illumination.

FHV AL Aluminum Horizontal External Visor. Use with VR1 or VR2 series 2 screw units only. Shields up and side illumination.

FHVC Steel Horizontal External Visor. Use with VR2C series 2 screw units only. Shields up and side illumination.

FHVC AL Aluminum Horizontal External Visor. Use with VR2C series 2 screw units only. Shields up and side illumination.

FV1 Steel Vertical External Visor. Use with VR1 or VR2 series 4 screw units only. Shields up and side illumination.

FV1 AL Aluminum Vertical External Visor. Use with VR1 or VR2 series 4 screw units only. Shields up and side illumination.

FV2C Steel Vertical External Visor. Use with VR1C and VR2C.

FV2C AL Aluminum Vertical External Visor. Use with VR1C and VR2C.

FV3 Steel Vertical External Visor. Use with VR3.
Shields up and side illumination.
FV3 AL Aluminum Vertical External Visor. Use with

VR3. Shields up and side illumination. **FV3C** Steel Vertical External Visor. Use with VR3C.

FV3C AL Aluminum Vertical External Visor. Use with VR3C.

FV4 Steel Vertical External Visor. Use with VR4.
Shields up and side illumination.
FV4 AL Aluminum Vertical External Visor. Use with

VR4. Shields up and side illumination.

FV4C Steel Vertical External Visor. Use with VR4C.

Aluminum Vertical External Visor. Use with VR4C

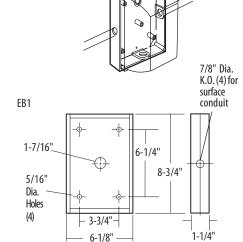
PF Plaster Frame. Provides a clean edge for ceiling openings. Use with VRR.

Screwdrivers

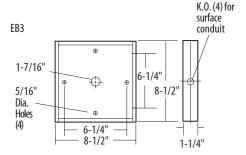
RK1 T10DRV Torx* TX10 screwdriver, for use with Gateway

RK1 T20DRVTorx® TX20 screwdriver, for use with tamper-resistant screws with center reject pin. Use with Gateway TRS option.

RK1 T20BIT Torx* TX20 hex-base driver bit, for use with tamper-resistant screws with center reject pin.

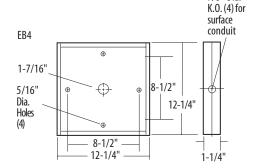


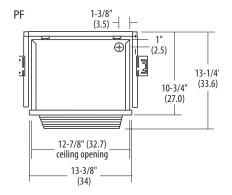
EBC

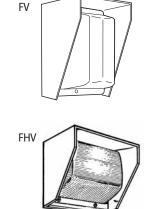


7/8" Dia.

7/8" Dia.







Ballast

ADCF Advance electronic fluorescent ballast. Requires 4-pin lamp (120V or 277V only).

ADEZ Advance Mark X® electronic line voltage control dimming ballast. (120V or 277V; 26DTT, 26TRT & 32TRT).

CW20 Cold-weather ballast for linear fluorescent fixtures.

CW20 Cold-weather ballast, -20°F for linear fluorescent fixtures.

DMHL Lutron Hi-Lume® electronic 3-wire line voltage control dimming ballast. (120V or 277V; 26DTT, 26TRT & 32TRT).

MOTCF Osram Sylvania electronic fluorescent ballast. Requires 4-pin lamp.

RHP Reactor high power factor ballast (HPS and 120V

TUBCF Universal Lighting Technologies electronic fluorescent ballast. Requires 4-pin lamp.

XHP High reactance high power factor ballast (208V, 240V, 277V, 347V and TB). Available with HPS only (35S not available).

Miscellaneous

4S Four screws per unit

AL Aluminum backplate for VR1/VR2; aluminum housing for VDC/VDS.

ALDF Aluminum doorframe. Required for use with VRR DHL (drop Holophane glass lens).

DL Damp location listing for VSL/VSLC.

IHR Internal horizontal reflector. Required for HID wall mount units. For use with utilitarian products.

IR Internal vertical reflector. Required for HID wall mount units. For use with utilitarian products.

L/LP Less lamp(s).

LPI Lamp(s) included.

SCB Surface conduit backbox. For use with VR1B/VR2B series. Replaces standard backbox. UL Listed for damp locations. Can be ordered separately as an accessory - SCB.

SCG Surface conduit gaskets (one pair, not installed) for VSL/VSLC. Fixture maintains wet location listing.

STS Stainless steel housing, natural. Available with VDC/ VDS.

STSW Stainless steel housing, white. Available with VDC/ VDS & VW/VWC.

TRS Tamper-resistant screws. Stainless steel Torx® T20 screws with center reject pin.

VGRDS Decorative shroud. For use with round, deep profile Gateway™ units. Mounts over die-cast housing to cover surface conduit entries for a more aesthetically appealing look. Can be ordered separately as an accessory — VGRDS XXXX (must specify color).

WL Wet location.

Electrical

2/1 *Two 1-lamp ballasts.* Two lamps/Two ballasts. Requires one power input for system.

DF Double fuse. Use with 208, 240, 480V. Not available for Multi-tap ballast. In-line fusing isolates luminaire from circuit. Externally accessible.

Ds Dual switching. Two lamps/Two ballasts. Requires two separate power inputs so each lamp/ballast combo operates as separate systems.

EC Emergency circuit. Factory-installed, double-contact, bayonet-base quartz socket with socket leads for use with separate external emergency power system.

ELDW Integral emergency battery system for fluorescent units. 750 lumens maximum.

GLR Internal fast-blow fusing

GMF Internal slow-blow fusing

L/JB Less junction box. For use with induction lighting system.

NL Incandescent night-light - 7W maximum. Lamp included.

NLCF Compact fluorescent night-light - 9W maximum. Lamp included

PE Photoelectric cell. (Button type.) Not available for Multi-tap ballasts or 480V.

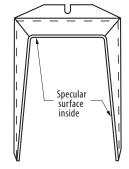
RS Quartz Restrike System. Factory installed, double contact, bayonet-based quartz socket with socket leads. Automatically switches 12V quartz lamp on if there is a power interruption or brownout significant enough to cause the primary HID lamp to drop out. The 120V quartz lamp stays on until the HID fixture restrikes. QRS does not energize during cold start of HID luminaires. Wiring for the quartz lamp is internal to the ballast assembly; the 120 volts required to operate the quartz lamp is supplied by the ballast. Wattage of the quartz lamp should not exceed that of the HID source. Maximum wattage lamp included.

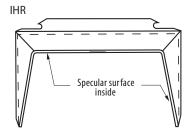
RIF1 Radio interference filter, one per fixture. For one filter per ballast, specify RIF2. Available for linear fluorescent units only.

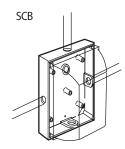
SF Single fuse Use with 120, 277, 347V. Not available for Multi-tap ballasts. In-line fusing isolates luminaire from circuit. Externally accessible.

SM1 Single medium-base incandescent socket. For use with VR4 100W & 150W incandescent.

XT Low-energy diode, extended lamp life. Use for incandescent units only.

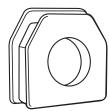


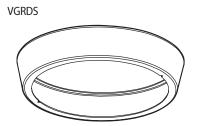






IR







LITHONIA LIGHTING®



Emergency Systems

Lithonia Emergency Systems manufactures a comprehensive selection of exit signs, emergency lighting units, fluorescent battery packs and emergency power systems for a wide range of commercial and industrial applications and special environments.

Our extensive product offering includes architectural, commercial and industrial models in a choice of materials and light sources. A substantial range of remote heads, options and accessories also is available.



www.lithonia.com



LITHONIA EMERGENCY

461

CONTENTS









Safety Codes

Outdoor Emergency Lighting 466

LITHONIA EMERGENCY

Precise®

LED



Chevron Direction

Specification	Grap	ohics
(add to catalog number)	Back	Front
LA		<exit< td=""></exit<>
RA		EXIT>
LRA (single face)		<exit></exit>
DA	<exit< th=""><th>EXIT></th></exit<>	EXIT>
LRA (double face)	<exit></exit>	<exit></exit>

Dimensions are shown in inches (millimeters) unless otherwise noted.





Panel length (from wall):

Weight:

13-1/2(343) Panel height: 10(254) 14-3/4(375) Trim height: Panel depth: 1-7/8(47)



Recessed Back Mount

Panellength: 13-1/4(336) Trim length: 14-3/4(375) Total height: 11-1/2(292) Depth (from wall): 1-7/8(47) Weiaht: 5 lbs. (2.3 kas.)

5 lbs. (2.3 kgs.)

Rough-In Section



13-5/8(346) Length: 4-1/2(114) Width: 3-1/8(80) Depth:

Recessed Ceiling Mount

ceiling):

Weight:

Trim width:

13-1/4(336)

14-3/4(375)

5 lbs (2 3 kgs)

8(203)

5(127)

13-1/4(336)

13-1/8(333)

8(203)

(2.3 kgs.)

Panel length:

Trim length:

Height (below

Top Mount

Panel length:

Trim length:

Panel height:

Weight:5 lbs.

Intended Use

Suitable for architectural applications where aesthetics and superior performance are required.

Features

Injection-molded acrylic panels, ultrasonically welded to eliminate visible hardware.

Depth of molded letters increases toward bottom of panel for better, more uniform illumination. Chevron directional indicators.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Emergency operation exits use maintenancefree nickel-cadmium battery.

Recessed mounting. Extruded aluminum housing recessed into wall or ceiling for top, back or end mounting capability.

Surface top-mount (TM) option available on standard exits and attaches directly to J-box. Can be used for pendant mounting.

Special wording available; consult factory.

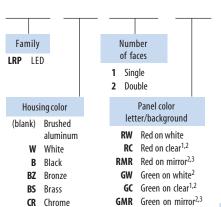
Listings

UL Listed (standard). CSA or NOM Certified (see Options).

Ordering Information

Unfinished

Example: LRP BS 1 RC LA 120/277 EL N EM



Input voltage Mounting **120/277** Dual voltage (blank) Ceiling 120/347 Dual voltage4 or back EM End TM Top⁵ Operation (blank) Standard non-emergency Nickel-cadmium battery **LDC6** 6V DC input for LED Item type lamps4 Complete exit (blank) **LDC12/48** 12-48V DC input for LED paneland lamps² rough-in section PNL Panel assembly Directional only

indicators (blank) No chevrons

LA Left RA Right LRA Left and right Double-face chevrons Certification

UL Listed (blank) CSA Certified CSA NOM NOM Certified

Accessories ⁶	(Order separately)
LED ROUGH-IN SECTION ⁷	
<u>Standard</u>	
ELA LCRIS Ela lcris 120 x2 Ela lcris 277 x2	1 or 2 face red or green 1 or 2 face 120V w/ X2 option ² 1 or 2 face 277V w/ X2 option ²
<u>Emergency</u>	1 of 2 face 277 v W/ X2 option
ELA R LRIS 120/277 EL N ELA R 2LRIS 120/277 EL N ELA G LRIS 120/277 EL N ELA G 2LRIS 120/277 EL N	1-face red ² 2-face red ² 1-face green ² 2-face green ²
ELA R LRIS 120/347 LDC12/48 CSA	1 or 2-face red with LDC 12/ 48 option ⁴

ELA R LRIS 120/347 LDC6 CSA 1 or 2-face red with LDC 6

Pendant mounting-(top mount only)

ELA US12 12" pendant kit with brushed aluminum canopy

option4

- 1 Single-face exits only.
- Not available with CSA.
- 3 Mirror background simulates clear for double-face option.
- Only available with CSA.
- Standard exits only. No rough-in section required. Not available with LDC6 or LDC12/48.
- For additional options, accessories and fixture compatibility, see page 431.
- Supplied standard with exit unless PNL suffix is specified. Order separately only if necessary for early installation. When ordering rough-in separately, all options must be included with rough-in nomenclature (Example: ELA LCRIS . 120/277 **FI**).

Electrical Application Data Volts Faces Watts Amns Type Primary Circuit 120 Standard 120 .178 3.1 LED Red 277 .089 1.8 277 .178 2.3 3.2 2.7 120 .093 120 .084 Emergency LED Red 277 .095 120 .064 1.2 2.0 Standard 120 LED Green .062 277 1.3 .061 3.7 1.9 Emergency .138 120 .064 LED Green 277 277 3.8 120 .09 1.4 Standard CSA 120 LED Red 347 .09 1.5 347 2.8 Emergency Circuit .20 LDC6⁴ .40 .12 .23 .06 1.5 2.8 1.5 12 12 24 24 32 32 48 .12 .05 .09 2.8 LDC12/48⁴ 1.5 2.8 1.6



Suitable for applications requiring attractive edge-lit exit signage, universal installation and low energy consumption.

Features

Extruded brushed aluminum finish lamp housing. Clear thermoplastic panels with precision outline engraved letters measuring 6" high with 3/4" stroke.

Mirrored separator panel to simulate clear background for double-face signs. Clear panel for single-face signs.

Expected LED life up to 25 years.

Low energy consumption – less than 5 watts for 120V red AC only; and battery back-up.

Universal (top, end or back) mounting. Double face available with top or end mounting only (canopy provided).

Universal directional indicators. Field selected and attached.

Listings

UL Listed (standard).





Ordering Information

Family Housing color EDG Surface mount LED edge-lit

Brushed aluminum

Number of faces Single 1 Double

Letter color Red R Green

Input voltage 120/277 Dual voltage

Operation (blank) Standard non-emergency

Example: EDG 1 R 120/277 EL N

Nickel-cadmium battery

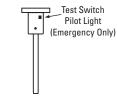
Electrical Application Data					
Туре	Volts	Amps	Watts		
Prim	ary Circuit				
Standard LED Red	120	0.2	3		
Stallualu LED Neu	277	0.1	3		
Standard LED Green	120	0.3	4		
Stallualu LED Gleeli	277	0.2	5		
Emergency LED Red	120	0.4	5		
Efficiency LED Neu	277	0.2	5		
Emorgoney LED Croon	120	0.5	5		
Emergency LED Green	277	0.2	5		

light**quick**°X0 Express delivery products. See page11 for details about LightQuick XD. Description EDG 1 R 120/277 EL N

Dimensions are shown in **inches (millimeters)** unless otherwise noted. Shipping weight 4lbs. (1.81 kgs.) End Mount Top Mount **Back Mount**



Width: 13-3/4(349) 11-1/8 (283) Height: Depth: 1-13/16 (46)



Width: 4-7/16(113) Height: 11-7/8(302) Depth: 12-3/4(324)



Width: 13(330) Height: 12-1/2 (317) Depth: 2-13/16(71)

Signature®

LED



Intended Use

Ideal for applications requiring attractive diecast aluminum signage, superior illumination and low energy consumption.

Features

Solid, die-cast aluminum housing – smallest sign on the market. Standard finish is brushed aluminum face with matte black housing. Other finishes available.

The self-diagnostic emergency signs comply with NFPA Life Safety Code and automatically tests the battery once a month for five minutes and once every six months for 30 minutes.

Completely concealed chevron directional indicator knockouts and mounting hardware.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

A standard red LED exit consumes only .73 watts of electricity at 120 volts.

LEDs provide uniform graphics illumination. Meets 3/4" letter stroke requirements. Maintains 100% brightness in emergency mode.

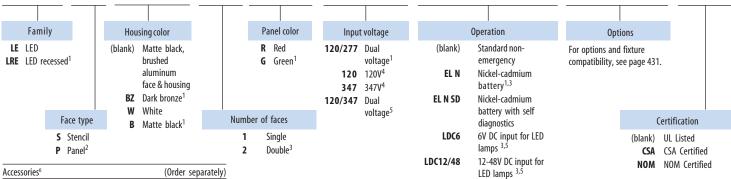
Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

Universal mounting - top, back or end. Double face available with top or end mounting only (canopy included).

US Patent No. 5,954,423.

UL Listed (standard). CSA or NOM Certified (see Options).

Ordering Information

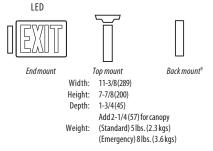


ELA B US12

ELA LEHO 120/277 N

12" pendant kit with black canopy⁷ Remote capable with black canopy. Provides 90 minutes of 10.2 watt capacity for remote head 1,7,8

Dimensions are shown in inches (millimeters) unless otherwise noted.





Width: 12-15/16(329) Denth: 4(102) 9-7/16(240) Height: Weight:

(Standard) 10 lbs. (4.5 kgs) (Emergency) 13 lbs. (5.9 kgs)

	Liccuitai	ъррисации	νατα			
Type	Volts	Faces	Amps	Watts		
Primary Circuit						
Chamdand	120	1 or 2	.04	.73		
Standard LED Red	277	1 or 2	.05	.94		
LED Reu	347	1 or 2	.06	1.2		
Standard	120	1 or 2	.04	1.2		
LED Green	277	1 or 2	.05	1.5		
F	120	1 or 2	.05	1.2		
Emergency CSA LED Red	277	1 or 2	.06	1.3		
LLD Neu	347	1 or 2	.01	2.9		
Emergency	120	1 or 2	.05	1.6		
LED Green	277	1 or 2	.06	1.8		
	Emerg	ency Circuit				
LDC6	6	1 or 2	.20	1.2		
	12	1 or 2	.12	1.5		
LDC12/48	24	1 or 2	.06	1.5		
LDC12/40	32	1 or 2	.05	1.5		
	48	1 or 2	.04	1.6		

Flectrical Application Data

Example: LE S W 1 R 120/277 EL N SD

NOT	TES:	

- Not available with CSA.
- 2 For special signage only, special wording available on panel face; see page 430.
- 3 Not available with recessed exits.
- 4 Only available with emergency CSA.
- Only available with non-emergency CSA.
- For additional accessories, see page 431.
- 7 Add **W** for white canopy.
- 8 For use with emergency exits only.
- $9 \quad {\sf Canopy required for ELNSDCSA or LDC option}.$





www.lithonia.com, keywords: LE and LRE

Suitable for cold weather (down to -40°C), hose down, wet location, security prisons and highabuse applications.

Features

Ideal for high abuse, cold weather (down to -40°C with CW option) and wet location applications such as schools, security areas/prisons and parking garages.

Durable, cast-aluminum construction. Rugged housing is .250" to .525" thick.

Clear, UV-stable polycarbonate cover is .130" thick to prevent cracking or breaking.

Secured with four stainless steel Torx T20 tamperproof screws with center pin.

Completely concealed chevron directional indicator knockouts.

Long-life LEDs feature very low energy consumption and a rated life up to 25 years.

Emergency exits contain maintenance-free nickel-cadmium battery and reliable, solid-state charging system.

UM option offers conduit entry and top, end, or back mounting. Double face available with top or end mounting only (canopy provided).

Self-diagnostics option automatically tests battery once every month and once every six months.

Vandal-resistant magnetic test switch and status indicator provide a safe, easy means of testing.

U.S. Patent No. D383,501 and 5,611,163.

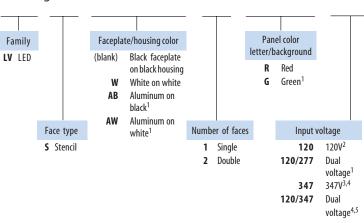
Listings

UL Listed (standard). CSA or NOM Certified (see Options). 4X option is UL Listed.





Ordering Information



Electrical Application Data							
Туре	Volts	Faces	Amps	Watts			
Primary Circuit							
	120	1	.15	2.3			
Standard	120	2	.30	4.6			
LED Red	277	1	.13	2.2			
	277	2	.26	4.4			
	120	1	.09	1.7			
Standard	120	2	.08	2.8			
LED Green	277	1	.09	1.9			
	277	2	.09	3.3			
	120	1	.14	3.3			
Emergency	120	2	.13	4.8			
LED Red	277	1	.13	3.3			
	277	2	.13	5.0			
	120	1	.10	2.2			
Emergency	120	2	.09	3.2			
LED Green	277	1	.10	2.5			
	277	2	.10	4.0			
	120	1	.14	2.23			
LED Standard	120	2	.13	3.80			
(CSA)	347	1	.14	1.92			
(CJA)	347	2	.13	3.74			
	120	1	.11	13.27			
LED Emergency	120	2	.10	8.14			
(CSA)	347	1	.04	12.65			

347

Mounting (blank) Back mount UM Universal mount⁶

Operation Standard non-emergency (blank) Nickel-cadmium EL N hattery

LDC6 6V DC input for LED lamp4 12-48V DC input for LED lamps⁴ LDC12/48

Example: LV S W 1 R 120/277 UM EL N

	Options
CW	Cold weather and NEMA 4X wet location to -40°C ^{1,3,7}
4X	UL Listed for NEMA 4X ¹
WL	Suitable for wet-mounting applications ⁴

For additional options and fixture compatibility, see page 431.

Certification UI (blank) Listed CSA CSA Certified NOM NOM

Certified

	120	1	.15	2.3	
andard	120	2	.30	4.6	
D Red	277	1	.13	2.2	
	277	2	.26	4.4	
	120	1	.09	1.7	
andard	120	2	.08	2.8	
D Green	277	1	.09	1.9	
	277	2	.09	3.3	
	120	1	.14	3.3	
nergency	120	2	.13	4.8	
D Red	277	1	.13	3.3	
	277	_	4.3	- 0	

ν neu	277	2	.26	4.4	2 0
andard D Green	120 120 277 277	1 2 1 2	.09 .08 .09 .09	1.7 2.8 1.9 3.3	3 Av 4 Ov 5 Ov 6 Uv
nergency D Red	120 120 277 277	1 2 1 2	.14 .13 .13 .13	3.3 4.8 3.3 5.0	7 N
nergency D Green	120 120 277 277	1 2 1 2	.10 .09 .10 .10	2.2 3.2 2.5 4.0	Type LDC6
	120	1	.14	2.23	LDC6 LDC12/48

.03

7.83

NOTES:

LDC12/48

LDC12/48

LDC12/48

LDC12/48

LDC12/48

LDC12/48

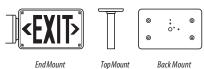
- 1 Not available with CSA.
- 2 Only available with CSA emergency.
- 3 Available with emergency exits only.
- Only available with CSA.
- Only available with standard, non-emergency exit.
- Universal mount standard with conduit entry (1/2"-14 UNC).
- NEMA 4X is included with CW option.

48

Accessories	(Order separately)
ELA TPS T20	Torx tamperproof bit for T20 center-pin screw

Volts Faces Watts Amps Emeraency Circuit .48 .15 .26 2.88 1.90 6 12 12 24 24 32 32 3.11 1.79 .13 3.05 .06 1.76 3.25 48 .04 1.73

Dimensions are shown in inches (millimeters) unless otherwise noted.



Width: 13-7/8(352) 8-5/8(219) Heiaht:

3 (76); add 3 (76) for canopy; Depth: (Standard): 11 lbs. (5 kgs.), Weight: (Emergency): 12 lbs. (5.5 kgs.)

🖊 LITHONIA LIGHTING

3.35

Quantum

LED Quick-Mount®



Intended Use

Ideal for applications requiring attractive, quick installation exit signs and low energy consumption.

Features

Precision-molded thermoplastic housing is impact and scratch resistant, corrosion proof and UV-stabilized to resist discoloration.

Innovative snap-together design allows installation in less than three minutes.

Long-life LEDs feature very low energy consumption and rated life up to 25 years. Consumes less than one watt of energy.

Fully assembled single-face exit with optional extra faceplate for easy field conversion to double face.

Replaceable chevron directional indicator knockouts for choice of direction.

Universal mounting capability – top, back or end (canopy provided).

Automatic recharge after discharge.

Conveniently located test switch and status indicator provide visual and manual means of monitoring system operation.

The self diagnostic emergency signs comply with NFPA Life Safety Code and automatically test the battery once a month for five minutes and once every six months for 30 minutes.

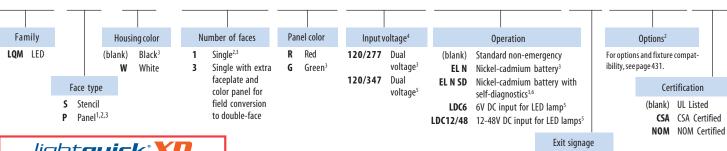
U.S. Patent No. 5,526,251, 5,611,163, 5,739,639 and 5,954,423. Other patents pending.

Listings

UL Listed (standard). CSA or NOM Certified (see Options).

Example: LQM S W 3 R 120/277 EL N

Ordering Information



Electrical Application Data

light**quick**°X0 Express delivery products.

See page11 for details about LightQuick XD.

Description

LQM S W 3 G 120/277 EL N LOM S W 3 R 120/277 EL N LQM S W 3 R 120/277

Quick-Mount® Installation:

- 1) Connect jumper leads (provided) to AC input leads in J-box. Fasten bracket and canopy to J-box.
- 2) Remove faceplate from housing and snap housing onto canopy.
- 3) Connect input leads to leads at corner of housing wire channel. Connect battery.
- 4) Snap out directional chevron indicators (if necessary) and snap faceplate onto canopy

Dimensions are shown in inches (millimeters) unless otherwise noted.

Width



No options:



Top Mount Back Mount

Height: 7-5/8(193) (Add 7/8 (22) for canopy) Depth: 1-15/16 (49) 2.6 lbs. (1.2 kgs.) Weight:

11(298)

		zieceireai rip	pireacion bata		
Type		Volts	Amps	Watts	Ī
		Primar	y Circuit		
Standa	rd	120	.04	.57	
LED Re	d	277	.05	.68	
Standa	rd	120	.05	.62	
LED Gr	een	277	.05	.72	
Emerge	ency	120	.04	.72	
LED Re	d	277	.92	.92	
Emerge	ency	120	.04	.72	Ī
LED Gr	een	277	.05	.92	
		Emergei	ncy Circuit		
LDC6		6	.16	.96	
LDC12/	48	12	.10	1.20	
LDC12/	48	24	.05	1.24	
LDC12/	48	32	.04	1.28	
LDC12/	48	48	03	136	

With options:







Back Mount

12-1/4(311) Width Height: 7-1/2(191)

(Add 7/8 (22) for canopy) Depth: 2(51) 2 lbs. (.9 kgs.) Weight:

www.lithonia.com, keyword: LQM

SALIDA Salida^{2,7} Accessories8 (Order separately) ELA W US12 12" stem kit with white canopy 9 **ELA WGEX** Back-mount wireguard

Top-mount wirequard

End-mount wirequard

NOTES:

- 1 For custom signage only. Special wording available on panel face, white housing only, see page 430.
- 2 See "With options" below for special housing dimensions.
- Not available with CSA.

ELA WGEXT

ELAWGEXE

Some special voltages available. Consult factory.

(blank) Exit

- Only available with CSA.
- See "SD ontion" below for special housing dimensions
- Letters 6" high with 7/16" stroke
- 8 For additional options, accessories and fixture compatibility, see page 431.
- 9 Replace **W** with **B** for black canopy.







Top Mount

12-1/4(311) Width: 10(254)(Add7/8(22)forcanopy) Height:

Depth: 2(51) Weight: 2.6 lbs. (1.2 kgs.)



Suitable for applications requiring quick-installation of both exit sign and unit equipment. Attractive 10-inch tall, streamlined design is great for above-the-door applications and other tight fits.

Features

UV-stabilized thermoplastic housing resists discoloration from sunlight and man-made sources.

Quick-Mount® installation. Innovative, snap-together design allows for installation in less than three minutes.

Factory assembled and prewired.

Replaceable chevron directional indicator knockouts for choice of direction.

Side-mount lamp heads reduce overall height, allowing for easy fit over doorways.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Sealed, maintenance-free, lead-calcium battery standard. Nickel-cadmium battery optional.

Top, back or end mounting (canopy included).

Optional high-output battery (HO) to power a remote head or exit.

U.S. Patent No. 5,611,163, 5,646,502, 5,526,251, 5,797,673 and D379,373. Other patents pending.

Listings

UL Listed (standard). NOM Certified (see Options).



LED Quick-Mount®



Ordering Information

Family LHQM LED exit/unit

Face type

Housing color (blank) **S** Stencil P Panel¹ W

Number of faces

Black 1 Single White Single with extra faceplate and color panel Panel color

R Red Green Input voltage

120/277 Dual voltage **Options**

Nickel-cadmium battery²

Two 6W tungsten halogen lamps^{2,3}

High-output leadcalcium battery³ Less lamp heads

Certification

UL Listed (blank) NOM NOM Certified

- 1 Special wording available on panel face, white housing only, see page 430.
- 2 Choice of Hor N. Not available with both
- 3 Choice of Hor HO. Not available with both
- 4 For additional accessories, see page 431.



LHQM S W 3 R 120/277 LHQM S W 3 G 120/277 Accessories⁴ **ELA MR24 K0606**

ELA MR24 K0906

ELA NX H0606

(Order separately)

Compact MR24 remote head (6W, 6V krypton lamp)

Compact MR24 remote head (9W, 6V

krypton lamp)

NEMA 4X sealed-beam remote fixture (6W, 6V halogen lamp)

Remote Ou	tput Capacity						
				Combo/	Combo/	Combo/no	
		Combo/	Combo/	high-	no	heads (R0) &	
	Standard	ni-cad	halogen	output	heads	high-output	
Family	combo	battery (N)	lamps (H)	battery (H0)	(R0)	battery (H0)	
LHQM	NA	NA	NA	12 W	10.8 W	24.0 W	

		Electrical Application Data							
		Electrical		Standard Lamp					
AC Lamp		AC Input		Output	0	utput Wat	ts	Catalog	
Description	Volts	Amps	Watts	Volts	1.5 hrs.	2 hrs	3 hrs.	Number	Watts
LED Red	120	.23	3.3	6	14	10	7	MR24 K0606	5.4
LED NCG	277	.23	3.3	6 (H0)	24	18	12	MINZTROOOD	5.1
LED Croon	120	.23	3.3	6	14	10	7	MR24 K0606	E 1
LED Green	277	.23	3.3	6 (H0)	24	18	12	WINZ4 NU0U0	5.4

 $Dimensions are shown in {\bf inches} \, ({\bf millimeters}) \, {\bf unless} \, {\bf otherwise} \, {\bf noted}.$



Width: 21-1/4(539) Depth: 4(102) 9-7/8(250) Weight: 7.36 lbs. (3.3 kgs.)



BriteWay®



Intended Use

Ideal for applications requiring general purpose emergency lighting.

Features

Thermoplastic housing.

Dual voltage 120/277-VAC.

LED illuminated exit and combo signs feature low energy consumption.

Fully assembled single-face exit and combo with optional extra faceplate.

Exit and combo with universal mounting capability - top, back or end (exit only) mounting (canopy provided).

Unit and combo with two 5.4-watt lamps to provide emergency lighting for 90 minutes.

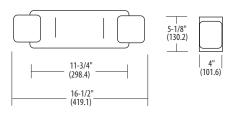
Battery back-up models provided with test switch and status indicator for visual and manual means of monitoring system operation.

One year warranty.

Listings

UL Listed.

Ordering Information

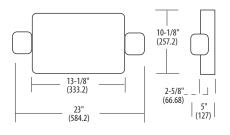


Example: **BWU**

Family White thermoplastic 6-volt self-contained emergency lighting unit

Electrical Application Data								
Туре	Volts	Amps	Watts					
Primary Circuit								
Standard	120	.05	.71					
LED Red Exit	277	.06	.92					
Standard	120	.05	.66					
LED Green Exit	277	.06	.70					
Emergency	120	.05	.71					
LED Red Exit	277	.06	.92					
Emergency	120	.05	.66					
LED Green Exit	277	.06	.70					
LED Red Combo	120	.23	3.3					
LLD Ned Collibo	277	.23	3.3					
LED Green Combo	120	.23	3.3					
LLD dicell collibo	277	.23	3.3					
Emergency	120	.05	5.7					
Lighting Unit	277	.02	5.5					

Ordering Information

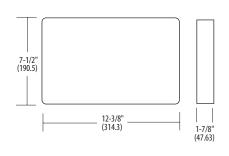


Example: BWC R

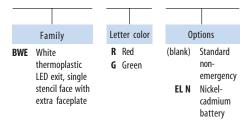
Red

Family Letter color White thermoplastic 2headed LED exit/unit Green combo, single stencil face with extra face plate

Ordering Information



Example: BWE R EL N



light**quick**°X0

Express delivery products. See page11 for details about LightQuick XD.

Description BWU BWCR **BWE R EL N BWE G EL N BWER**



www.lithonia.com, keyword: BW

Suitable for applications requiring heavy-duty steel exit signage such as a light industrial warehouse or manufacturing facility.

Features

Heavy-gauge, die-formed steel housing. Impactresistant color panels.

Knockout chevrons for choice of direction.

Long-life LEDs feature very low energy consumption and rated life up to 25 years.

Universal mounting — top, back or end (canopy included).

Listings

UL Listed (standard). NOM Certified (see Options).



Certification

UL Listed

NOM Certified

(blank)

NOM

I FD

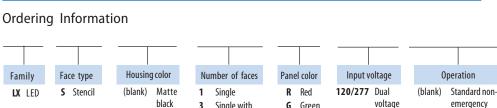


Options

For additional options and fixture

compatibility, see page 431.

Example: LX S W 1 R 120/277 EL N



G Green

Single with

extra faceplate

and color panel

NOTES:

3

Electrical Application Data Watts Type Volts Amps Primary Circuit .04 .57 120 Standard LED Red 277 .05 .68 120 .05 .62 Standard LED Green 277 .72 120 .04 .72 Emergency LED Red 277 .05 .92 120 .04 .72

W White

> Accessories¹ (Order separately)

ELA W US12 12" stem kit with white canopy²

Nickel-

cadmium battery

 $Dimensions are shown in {\bf in ches (millimeters)} \ unless otherwise noted.$

Standard Emergency Height: 7-7/8(200) 2-1/2(64) Depth:

Weight:

Width: 11-1/2(292) (Add7/8(22)forcanopy)

5 lbs. (2.2 kgs.)

Self-Luminous Exits

Intended Use

Ideal for applications where electrical power cannot be provided.

Features

Tritium-filled gas tubes require no electrical input and are rated for 10 or 20-year life.

Universal directional indicators and mounting (canopy included).

Completely sealed housing.

For additional accessories see page 431.

2 Replace W with **B** for black canopy.

Explosion-proof/hazardous location. Suitable for wet locations.

Tamperproof mounting hardware included.

10 or 20-year life (varies with luminous life option chosen).

Listings

UL Listed.

Self-Luminous



Options

Institutional frame

Width: 12-3/4(324)

Height: 8-1/4(209)

Depth: Single-1-1/2 (38)

Double - 2-11/16 (68)

Single - 4 lbs. (1.8 kgs.)

Double - 8 lbs. (3.6 kgs.

(Canopy provided with double face only)

Aluminum anodized frame⁵

VR Vandal shield^{2,3,4}

Example: D SW1R

Ordering Information

Emergency LED Green





Dimensions are shown in

inches (millimeters) unless

otherwise noted



Width:

Height:

Weight:



14-3/16(360)

9-5/8(244)

Single - 1-1/2 (38)

Double - 3 (76)





SINGL DOUBLE



Plastic

NOTES:

- 1 Only available with AA option.
- Only available in single face.
- Only available with aluminum housing color.
- Consult factory for dimensional details.
- Available in all housing colors.

www.lithonia.com, keywords: LX and D

Single - 3 lbs. (1.4 kgs.)

Double - 6 lbs. (2.8 kgs.)







Lithonia offers special signage in the Signature® and Quantum® families. Most special signage is available with red or green LED lighting. See below for special wording ordering guide.



Signature®



Quantum® Sign



Quantum® Sign/Unit Combo



SW01

BEAM

IN USE

SW05

IN

USE

SW09

ON

SW13



SW02



SW03



SW04



SW06

LASER

IN USE

SW10

ROOM

IN USE

SW14



SW07





SW11



SW12



SW15



SW16

Ordering Information

Family

LE Signature® diecast aluminum sign LQM Quantum® thermoplastic sign¹

LHQM Quantum® thermoplastic sign/ unit combo¹

Face type P Panel

(blank) Matte black, brushed aluminum base

Housing color

W White

Number of faces

1 Single face 2 Double face 3 Single with

faceplate and color panel²

Letter color

R Red **G** Green

Input voltage

120/277 Dual voltage

Operation⁵

(blank) AC only EL N Nickelcadmium battery

Special wording AREA OF REFUGE

Example: **LE P W I R 120/277 EL N SW02**

SW01

AREA OF RESCUE SW02 AREA OF RESCUE ASSISTANCE SW03 AREA OF RESCUE ASSISTANCE SW04 with access pictogram

SW05 BEAM IN USE³ SW06 DARKROOM IN USE3 SW07 EXIT Arabic/English EXIT with access pictogram SW08 SW09 IN USE³ LASER IN USE³ SW10 SW11 MAGNET IN USE³

NO EXIT SW12 SW13 ON AIR3 SW14 ROOM IN USE³ SW15 SALIDA4

X-RAY IN USE³ SW16

- Only available in white housing.
- Only available with LQM and LHQM family.
- 3 Not available with LHQM family or ELN operation.
- 4 Only available in red letter color.
- 5 Not applicable to LHQM family.





Stem kits1

ELA US12 Signature® LE standard or emergency, Precise® LRP with TM option, Quantum®, Titan® LED



NOTES:

- 1 Stem color is brushed aluminum. Standard canopy color is brushed aluminum. To order white or black canopy, add W or B to catalog number. For other lengths, replace 12 with appropriate stem length in inches. Example: ELAW US24.
- 2 See page 450 for additional wireguard information.
- 3 Supplemental emergency circuits designed for normally off operation only.

Wireguards²

ELA WGEX Back-mount wireguard (shown) 13 5/8"W x 13 5/8"H x 43/4"D

ELA WGEXT ELA WGEXE ELA WGHQM Top-mount wireguard 14"W x 11"H x $6^{3}/4$ "D End-mount wireguard 15"W x 11"H x $4^{3}/4$ "D Back mount for LHQM combo 28" W x 15" H



DC input kits³

LED Signature® Series

ELA LEDC6 6V 12W kit 12V 12W kit



Exit Options and Compatibility

								Options						
Family	EL	N	SD	X2	F	FA	FI	НО	DL	TP	VR	LDC12/48	CSA	4X
LE				■ 1										
LE EL N														
LRE				1										
LRE EL N														
LQM														
LQM EL N														
LHQM														
LRP				1										
LRP EL N														
LX														
LX EL N														
LV				1										
LV EL N														

■ Standard

(blank) Option not available

Option available

Options

- **EL** Lead-calcium battery
- N Nickel-cadmium battery³
- SD Self-diagnostics^{3,4}
- **X2** Lamps wired on two separate circuits^{5,6}
- F Flashing emergency operation^{3,4,6}
- **FA** Flashing and audible emergency operation^{3,4,6}
- FI Fire alarm flashing interface^{4,5,6}
- HO High-output battery⁵
- **DL** UL Listed for damp locations
- TP Tamperproof Torx-head screws
- VR Vandal-resistant shield (polycarbonate, .1" thick)
- LDC12/48 12-48V DC input for LED lamps²
 CSA Certified
 - **4X** NEMA 4X suitable for wet-mounting applications

NOTES:

- 1 Must specify input voltage.
- 2 Supplemental emergency circuits designed for normally off operation only. CSA Certified product only.
- 3 Only available with exits containing battery.
- 4 Not available with X2 option.
- 5 Not available with flashing option.
- 6 Not available with CSA Certified product.

Exit Replacement Batteries

					Batteries				
	ELB 06042	ELB 0607	ELB 0610	ELB 1P201N	ELB 4814N	ELB 0604N	ELB 0701N	ELB 1201N	ELB 1P201N2
	lead-calcium L: 2-3/4 (70)	lead-calcium L: 4 (102)	lead-calcium L: 6 (152)	nickel-cadmium	nickel-cadmium L: 3-1/2 (89)	nickel-cadmium L: 3-7/8 (98)	nickel-cadmium L: 5-1/4 (133)	nickel-cadmium L: 1-5/8 (43)	nickel-cadmium L: 1-5/8 (43)
	W: 1-7/8 (48)	W: 1-1/2 (38)	W: 2 (51)	L: 1-5/8 (43)	W: 1 (25)	W: 2-3/8 (60)	W: 1 (25)	Dia: 3/4 (19)	Dia: 3/4 (19)
Family	H: 4-1/8 (102)	H: 6 (152)	D: 4 (102)	Dia: 3/4 (19)	H: 1-3/4 (44)	H: 2-3/8 (60)	H: 1-3/4 (44)		
QM EL/X EL						9			
LHQM1/LQM EL2									
LHQM ³ /HQM			■ 7						
LX EL N									
LQM EL N ⁴ /LE EL N ⁵									
LV EL N					8		10		
LQM ELN ⁶									

Not all batteries and equipment are shown. Consult factory for additional requirements. All dimensions are **inches (millimeters)** unless otherwise noted.

Battery available
(blank) Battery not available

NOTES:

 1
 Series 15-16.
 6
 Series 30.

 2
 Series 10-12.
 7
 With HO option.

 3
 Series 10-14.
 8
 Single face, no options.

4 Series 20-23.5 Series 20-21.9 With N option.10 Double face, no options.

LITHONIA LIGHTING

Die-Cast Architectural Emergency Lighting Units

Affinity[®]

Intended Use

Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment.

Features

Compact, low-profile, architectural design with die-cast aluminum housing that has a contemporary brushed nickel-plated finish. Other available finishes are texturized polyester powder coat paint in white, black and dark bronze.

U.S. Patent No. D468,046.

Two 6W wedge-base xenon lamps offer 55 percent more light output than standard incandescent lamps.

Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors and multi-faceted, highly transmissive refractor that significantly improve photometrics.

Maintenance-free lead-calcium battery (as a standard). Nickel-cadmium optional.

Dual-voltage input capability (120/277V).

Low-profile, integrated test switch/pilot light located below the lens.

Rigid conduit entry provision on top of the unit.

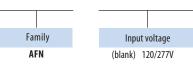
Remote version available for exterior use. Ideal for exit discharge applications.

Listings

UL Listed. Wet location (EXT) listed. Damp location (PREM, EXT) listed. Cold Weather (EXT) listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards.

Example: AFN BN PREM

Ordering Information



Finish White **B** Black

BN Brushed nickel DB Dark bronze1

Option packages

(blank) Features lead-calcium battery Features nickel-cadmium battery, self-diagnostics and damp location 0° to 50°C (32° to 122°F) PREM

Features high-temperature nickel-cadmium battery listed from -18° to 50°C (0° to 122°F), selfdiagnostics, damp and wet location

NOTES:

Dark bronze can only be ordered with the exterior package. This finish is not available on other units

For fixture performance charts, see page 459.

Accessories								(Orc	ler	S	ера	rat	ely
						,,					_		

ELA AFNR DB Remote fixture (less batteries and electronics) to be powered by 6V battery equipment as part of an emergency lighting system (listed from -40°C



Width: 6-1/2(165) Depth: 2-7/10(69) Height: 9-1/2 (241) Weight: 3.5 lbs. (1.59 kgs.)

 $Dimensions are shown in {\bf in ches (millimeters)} \ unless otherwise noted.$

		Electrical	Annlicati	ion Data	
			пррисас		Outnut Water
_	17. 1.	AC Input	147	Output	Output Watts
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs
AFN	120 277	.11 .12	1.1 1.3	6	12
AFN PREM	120 277	.15 .14	1.4 1.4	6	12
AFN EXT	120 277	.23 .25	21 35	6	12



Intended Use

Provides 90 minutes of illumination for the rated wattage upon the loss of AC power. Ideal for applications that require ensconced emergency lighting in wall or ceiling.

Features

Trim and door housing panels are finished in durable white textured powder coated paint. Can be wallpapered or field painted. Trim and panel doors lay flush with mounting surface. No exposed hardware. Low profile recessed test switch and status indicator configuration minimizes exposed interfaces. Rugged, 22 GA galvanized steel box with (3) 3/4" knock-outs. Galvanized bar hangers span up to 30" on

Two MR16 halogen 12W to 75W lamps are fully adjustable to meet aiming requirements. Lamps are ensconced until activated in the emergency mode.

Sealed, maintenance-free lead-calcium battery with capacity of 24W to 150W for 90 minutes of emergency operation. Optional nickel-cadmium battery. Low voltage disconnect prevents excessive deep discharge that can permanently damage the battery.

Dual voltage input capability (120/277V). Precision-controlled motor and cam system ensures reliable extraction and retraction of light sources. Single, multi-chromatic LED indicator to display two-state charging, test activation and four-state diagnostic status. Standard self-diagnostic feature tests the unit for 30 minutes every 28 days without turning lamps on. Provided with an IR receiver for remote testing. Requires the ELA RTVEL remote transmitter (see accessories). Selectable 30-second or 90-minute manual testing.

Listings

UL Listed. Meets UL924.

Velaré™



Example: VEL1270 H3512 N

Ordering Information

Far	nily
VEL1224	12V, 24W
VEL1240	12V, 40W
VEL1270	12V, 70W
VEL12100	12V, 100W
VEL12150	12V, 150W

	Lamp type ¹
H1212	12W/12V halogen MR16
H2012	20W/12V halogen MR16
H3512	35W/12V halogen MR16
H5012	50W/12V halogen MR16
H7512	75W/12V halogen MR16

	l l
	Options
N	Maintenance-free nickel-cadmium battery
TD	Time delay
LRIS	Less rough-in section ²

		Electrical A	pplication Da	ıta	
		AC Input		Output	Output Watts
Туре	Volts	Amps	Watts	Volts	1-1/2hr.
		Primo	ary Circuit		
VEL1224	120	.20	30	12	24
	277	.20	30	12	24
VEL1240	120	.20	30	12	40
VEL1240	277	.20	30	12	40
VEL1270	120	.20	30	12	70
VEL12/U	277	.20	30	12	70
VEL12100	120	.20	30	12	100
VEL12100	277	.20	30	12	100
VEL12150	120	.20	30	12	150
VEL 12 130	277	.20	30	12	150

Accessories	(Order separately)
ELA RTVEL	Remote transmitter with selectable 30-second or 90-minute testing ³ .
ELA VEL RIS	VEL rough-in section (supplied standard with fixture unless LRIS suffix is specified) ships with mounting hardware only. Order ELA VEL RIS if needed for rough-in phase of construction.
ELA VEL TSPLP	VEL remote test switch/pilot light.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

VEL1224(12V, 24W) - 20 lbs. VEL1240 (12V, 40W) - 20 lbs. VEL1270(12V,70W)-26lbs. VEL12100(12V, 100W) - 26lbs. VEL12150(12V,150W)-32lbs.

Rough-in opening: 13-1/2(341)X6-3/4(170) Overlap trim: 14-7/16(365)X7-5/8(193)

Universal adjusted mounting rails. Two per unit mount on 13-1/2" or 16" sides 13-1/2" to 30' Depth behind wall for 3/4" wall thickness = 3-1/4' Total depth = 413-1/2" Rough-in 6-3/4" Rough-in

14-7/16"

www.lithonia.com, keyword: VEL

- $1\quad Two lamps provided. Total lamp load cannot exceed the fixture capacity rating.$ $2\quad VEL \, rough-in \, section \, ships standard \, with \, fixture \, unless \, LRIS \, suffix \, is \, specified.$
- 3 Minimum one per job required.

Requires ELA VEL RIS accessory for installation.



Reduced-Profile Fluorescent Battery Packs, Linear Fluorescent Fixtures

Power Sentry®



Intended Use

Factory- or field-installed inside or outside (field only) a fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lumens, providing optimum glare-free illumination for a minimum of 90 minutes upon interruption of normal power.

Features

Mounts concealed within fixture wireway for clean appearance and protection against vandalism.

Reduced-profile footprint fits in the tightest application. Durable thermoplastic/metal housing resists impact, scratches or corrosion.

Sealed, maintenance-free, high-temperature nickel-

cadmium batteries.

Patent-pending Quick-Disconnect connector system allows for quick and easy replacements at end of life without re-wiring.

Patents pending. U.S. patent No. 5,814,971.

Listings

UL Listed. Damp location listing available.

Ordering Information

PS300QD Reduced profile, Quick-Disconnect, 300 lumen Reduced profile, Quick-Disconnect, 15-minute PSQ500QD installation, 500 lumen output PS600QD Reduced profile, Quick-Disconnect, 600 lumen PS1400QD Reduced profile, Quick-Disconnect, 1400 lumen



Options

Self-diagnostics1

UL Listed for use inside damp or wet location listed fixtures 0-50°C (32-122°F)2

- 1 Self-diagnostics (PSSD) module ships separately. See PSSD spec sheet for details. Not available on PS300QD.
- 2 Not available with Quick Disconnect wire harness. See below for housing di-
- $3\quad To order a factory-installed battery pack, add suffix to fluorescent fixture catalog$
- 4 Add DW to factory installed suffix to receive as wet or damp location listed, depending on the fixture. Applies to EL, EL5, EL6, EL14. Example: EL14 DW.
- Add SD to suffix to receive self-diagnostics version. Example: ELSSD. Applies to EL5, EL6 and EL14.

Special voltages/frequencies available; consult factory. For lamp/ballast compatibility, see page 437. For application guidelines and fixture performance data, see pages 454 and 460.

Electrical Application Data								
	AC Input							
Туре	Volts	Amps	Watts					
PS300QD	120/277	.29	2.5					
PSQ500QD	120/277	.29	2.5					
PS600QD	120/277	.29	3.0					
PS1400QD	120/277	.29	3.5					

Factory installation^{3,4} PS300QD installed3,4

Example: PS1400QD SD

EL EL5 PSO5000D installed3,4,5 $PS600QD in stalled ^{3,4,5}\\$ EL6 PS600QD one-lamp operation installed^{3,4,5} EL61LP

EL14 PS1400QD installed3,4,5

PS1400QD one-lamp operation installed^{3,4,5} EL141LP

Accessories	(Order separately)
PSSD	Field installable self-diagnostic modules for PSQ500 DW, PSQ500QD, PS600 DW, PS600QD, PS1400 DW or PS1400QD
ELA TSPLP	Remote or replacement test switch/pilot light and mounting plate PS300, PS300QD, PS0500 PS6000D

PS1400 and PS14000D. **ELA TSPLP SD** Remote or replacement test switch/pilot

light and mounting plate for self-diagnostics PSQ500SD, PSQ500QDSD, PS600SD, PS600QDSD, PS1400SD and PS1400QDSD **ELA PSTS** Double-pole, single-throw test switch (no

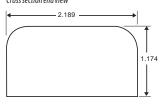
pilot light) **ELA PSMK** External mounting kit **ELA PSMKSD** External mounting kit for self-diagnostics

module **ELA PSDMT** External mounting tray

light**quick**°X0 Express delivery products. See page11 for details about LightQuick XD. Description PS300QD PS05000D PS14000D

 $Dimensions are shown in {\bf inches (millimeters)} \ unless otherwise noted.$

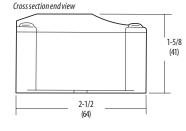
PS300QD/PSQ500QD/PS600QD/PS1400QD Cross section end view



Length: 13.8(351)-PS1400QD Length: 9.5 (241) - all others Width: 2.19(59.5) Height: 1.18(29.9) Shipping weight

PS300QD: 1.0 lbs. (0.45 kgs.) PS500QD: 1.0 lbs (0.45 kgs.) PS600QD: 1.5 lbs (0.68 kgs.) PS1400QD: 2.0 lbs (0.9 kgs.)

PS300 DW / PSQ500 DW / PS600 DW / PS1400 DW



Length: 13.8(351)-PS1400DW Length: 9.5(241)-allothers Width: 2.5(63.5) Height: 1.675(41) Shipping weight PS300DW: 1.4lbs. (0.6kgs.)

PS500DW: 1.0 lbs (0.45 kgs.) PS600DW: 1.8 lbs (0.8 kgs.) PS1400DW: 4.0 lbs (2.3 kgs.)



Fluorescent Battery Packs, Downlighting Fluorescent Fixtures

Intended Use

Factory- or field-installed on fluorescent downlighting fixtures to operate lamps at an initial light output of 20% to 85% of full lumen rating, providing optimum glare-free illumination for a minimum of 90 minutes upon interruption of normal power.

Features

PSDL1 operates one two-pin 18W or 26W quadtube compact fluorescent lamp. PSDL1 2LP operates 2 two-pin (13-26W) quad-tube fluorescent lamps.

PSDL2 operates one two-pin 7W, 9W or 13W quad-tube compact fluorescent lamp. PSDL3 operates one or two four-pin twin-tube (9-13W), triple-tube (18-42W*), quad-tube (13-26W) or 2D compact fluorescent lamp(s). *42W tripletube is one lamp only.

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is permanently sealed steel enclosure.

Listings

UL Listed. Damp location listing available.

Power Sentry®



Example: PSDL3 SD

PSDL1 Bi-pin 18-26W quad-tube lamps

Ordering Information

PSDL2 Bi-pin 7-13W twin-tube or quad-tube lamps PSDL3 Four-pin 9-42W quad-tube or triple-tube lamps

Options

SD Self-diagnostics1

DL Damp location listed 0-50°C (32-122°F)1 Operates (2) two-pin quad-tube lamps (PSDL1)²

Factory installation³

PSDL1/PSDL2/PSDL3 installed, compact fluorescent PSDL1/PSDL2/PSDL3 installed, compact fluorescent ELR with remote pilot light/test switch

- 1 Available on PSDL3. Self-diagnostics (PSSD) module ships separately. See PSSD spec sheet for details
- Must specify PSDL12LP for two-lamp version. The PSDL3 product may be wired for a 2-lamp operation as a standard feature, see wiring diagrams. 2LP option does not need to be specified for the PSDL3.
- $3\quad To\, order\, a factory-installed\, battery\, pack, add suffix to\, fluorescent\, downlighting$ $fixture\, catalog\, number.\, PSDL1/PSDL2/PSDL3\, will\, be\, determined\, automati-number.\, PSDL1/PSDL3/PSDL$ cally based on ballast and lamp type. Add 2LP (example: EL2LP) to suffix to specify 2-lamp emergency operation for all 4-pin or 2-pin quad lamps. (Avail $able for Gotham \^{}^{\circ} downlighting and Lithonia downlighting.)$

For lamp/ballast compatibility, see page 437.

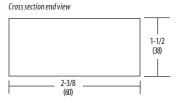
Electrical Application Data								
	AC Input							
Туре	Volts	Amps	Watts					
PSDL1	120	.275	3.5					
	277	.255	3.5					
DCDLO	120	.275	3.5					
PSDL2	277	.255	3.5					
PSDL3	120	.27	3.3					
LONTO	277	25	3.2					

Accessories	(Order separately)
PSSD	Field installable self-diagnostic module for PSDL3
ELA TSPLP	Remote or replacement test switch/mounting plate for PSDL3
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSDMT ELA RTS3	External mounting tray (PSDL1, PSDL2, PSDL3) Remote test switch and pilot light for PSDL1 2LP

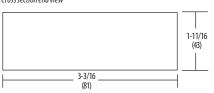


PSDL1 2LP

Dimensions are shown in inches (millimeters) unless otherwise noted PSDL1 and PSDL2

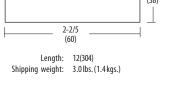


Length: 10-5/8(270) Shipping weight: 2.14lbs. (.9 kgs.) PSDL3 Cross section end view



Length: 17-1/8(435) Shipping weight: 5.0 lbs. (2.3 kgs.) Cross section end view 1-1/2 (38) 2-2/5 (60) Length: 12(304) Shipping weight: 3.0 lbs. (1.4 kgs.)

www.lithonia.com, keyword: PSDL





Specialty Fluorescent Battery Packs, Linear Fluorescent Fixtures

Power Sentry[®]



Intended Use

Factory- or field-installed inside or outside (field only) a fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lumens, providing optimum glare-free illumination for a minimum of 90 minutes upon interruption of normal power.

Low profile footprint and T5 lamp compatibility make the PSL550 and PSL600 battery pack ideal for use in T5 direct/indirect fixtures.

Features

Sealed, maintenance-free, high-temperature nickel-cadmium batteries.

Housing is 20-gauge steel or permanently sealed steel.

Listings

UL Listed.

Ordering Information

PSL400	Low-profile, 350-450 lumen output
PSL550	Low-profile, 390-700 lumen output
PS600C	Two-hour emergency operation
PSL600	Low-profile, 725-1325 lumen output
PS3000	Full light output
PS48	Central 48VDC interface

Accessories	(Order separately
ELA RTS2	Remote test switch and pilot light (PS3000)
ELA RTS3	Remote test switch and pilot light for the PSL400, PSL550, PSL600 and PS600C
ELA PSTS	Double-pole, single-throw test switch (no pilot light)
ELA PSDMT	External mounting tray (PS3000)
ELA PSRME	Remote mounting enclosure

Factory installation 1

Example: PSL600

PSL550 installed
PS600C installed
PS48 installed
PSL400 installed
PSL600 installed

NOTES:

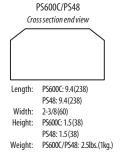
1 To order a factory-installed battery pack, add suffix to fluorescent fixture catalog number.
For lamp/ballast compatibility, see page 437.

For lamp/ballast compatibility, see page 437.

PS	5L400	PSL5	550	PSL	500
Cross sect	tion end view	Cross section	end view	Cross section	n end view
Length:	14.1 (358)	Length:	18.5(470)	Length:	21.5(546.1)
Width:	1.5(38)	Width:	1.18(300)	Width:	1.18(30)
Height:	1.0 (25)	Height:	1.15(29.2)	Height:	1.18(30)
Weight:	1.9 lbs. (.9 kgs.)	Weight:	2.3 lbs.	Weight:	3.3 lbs.

Electrical Application Data						
		AC Input				
Туре	Volts	Amps	Watts			
PSL400	120	.1	1.5			
F 3L400	277	.1	1.5			
PSL550	120	.18	3.2			
L2F220	277	.18	3.2			
PS600C	120	.28	3.5			
P3000C	277	.28	3.5			
PSL600	120	.18	3.0			
PSLOUU	277	.18	3.0			
PS3000	120	.09	9.6			
F33000	277	.04	10.2			
PS48	120	.28	3.5			
F340	277	.09	0.5			

Dimensions are shown in **inches (millimeters)** unless otherwise noted





PSSD



Intended Use

Designed to perform self-diagnostic testing for five minutes every month and thirty minutes every six months. May be factory- or field-installed as part of the test switch/pilot light assembly with the PSQ500 DW, PSQ500QD, PS600 DW, PS600QD, PS1400 DW, PS1400QD and PSDL3.

Accessories	(Order separately)
PSSD	Self-diagnostic module for PSQ500QD, PS600QD, PS1400QD and PSDL3.
PSSD DW	Self-diagnostic module for PSQ500 DW, PS600 DW, PS1400 DW and PSDL3 DW. DW version is UL approvied for use in wet and damp location listed fixtures 0°-50° C.
ELA PSMKSD	External mounting kit for self-diagnostics module.

Features

Single multi-chromatic status indicator and audible beep to display three-state charging, test activation and four-state diagnostic status. Audible beep can be permanently deactivated in the field. Quick connect terminal allows for fast and easy installation.



UL Listed Products

LampType	Wattage	PS300QD	PSQ500QD	PS600QD	PS1400QD	PSL400	PSL550	PSL600	PS600C	PS3000	PS48	PSDL1	PSDL2	PSDL3
Lumens		300	450-550	600-700	1100-1400	350-450	390-700	900-1325	600-700	1500-3000	*	500-950	350-650	580-1048
24"- 48" T5	14-28			1	1		1	1		1				
24"- 48" T5H0	24-54			1	1		1	1		1				
U-Lamp T8	16-32	1	1	1,2	1,2	1				1	1,2			
24"- 48" T8	17-32	1	1	1,2	1,2	1		1	3	1	1,2			
48"- 60" T8	32-40						1	1			1			
48" T8H0	44						1	1						
60"- 96" T8	40-59			1	1					1				
96 HO T8	86			1	1									
Circline T9	20-40	1		1	1					1,2	1			
U-lamp T12	34-40	1	1	1,2	1,2	1				1,2	1,2			
24"- 48" T12	20-40	1	1	1,2	1,2	1			3	1,2	1,2			
60"- 96" T12	50-75			1	1					1	1			
24"- 48" T12H0	35-60			1	1					1	1			
60"- 96" T12HO	70-110			1	1					1	1			
24"- 48" T12VH0	74-115			1	1					1	1			
60"- 96" T12VHO	135-215			1	1					1	1			
PL Twin-Tube (2-Pin)	9-13												1	
PL Quad-Tube (2-Pin)	13-26											1,4		
PL Twin-Tube (4-Pin)	9-13				1						1,2			1
PL Quad-Tube (4-Pin)	13-26				1,2					1	1,2			1,2
Triple-Tube (4-Pin)	18-32				1,2	1				1	1			1,2
Triple-Tube (4-Pin)	42				1						1			1
Long Compact (4-Pin)	18-40	1	1	1		1				1	1,2			
Long Compact (4-Pin)	36-55						1	1			1,2			

NOTES: $\ ^*$ Based on the lumen output of the lamp; provides full light output.

- 1 One-lamp emergency operation for 1, 2, 3 or 4-lamp ballasts.
- 2 Two-lamp emergency operation for 2, 3 or 4-lamp ballasts.
- 3 One-lamp, 2-hour emergency operation for 2, 3 or 4-lamp ballasts.
- 4 2 LP option required for 2-lamp emergency operation in fixtures with two or more lamps.

Contemporary Thermoplastic Emergency Lighting Units

Quantum[®]

ELM/ELM2

Quick-Mount®



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

White, compact, low-profile contemporary design with high-impact thermoplastic housing that is impact-resistant, corrosion-proof and UV-stable to resist discoloration from artificial light sources or sunlight.

Maintenance-free lead-calcium battery.

Two 5.4W wedge-based krypton lamps offer 32 percent more light output than standard incandescent lamps.

Patented MR24, multi-faceted reflector (ELM2) significantly improves photometric performance; 60 to 100 percent more light delivered

to the path of egress. Dual-voltage input capability (120/277V). Edge connectors on printed circuit board ensure long-term durability.

Unique track-and-swivel design permits full range of lamp head adjustment (ELM2). Universal J-box mounting pattern. Tool-less access for maintenance. Flexible conduit entry provision on top of the unit.

Quick-Mount® snap-together construction permits installation in three easy steps in less than three minutes.

Vandal-resistant ELA VS polycarbonate shield available.

Wall or ceiling mounted.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options).

Example: **ELM2 SD**

Ordering Information





SD Self-diagnostics^{1,2}
 B Black housing^{1,2,3}
 DL Damp location^{1,3}

SSR 8-foot cordset attached (120V ELM only)^{1,4}

CSA CSA Certified⁵
NOM NOM Certified^{1,2}

Accessories (Order separately)

ELA VS Polycarbonate vandal shield

ELA WGST Wireguard



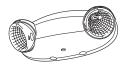
Туре	SD ^{1,2}	B ^{1,2,3}	DL ^{1,3}	CSR ^{1,4}	CSA ⁵	NOM ^{1,2}	Lamp Number	Watt/ Lamp
ELM							K0606	5.4
ELM2							MR24 K0606	5.4

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted.

ĿLМ	
Width:	11-1/2(292)
Depth:	3-3/4(95.25)
Height:	5(127)
Weight:	3.0 lbs. (1.4 kgs.)

ELM2
Width: 12-1/2(317)
Depth: 3-3/4(95.25)
Height: 5(127)
Weight: 4.0 lbs. (1.8 kgs.)





ELM CSA	
Width:	11-3/4(298)
Depth:	2-3/8(60)
Height:	5(127)
Weight:	3.0 lbs. (1.4 kgs.)
	1111111

ELM2 CSA	
Width:	16-1/4(412)
Depth:	4(102)
Height:	5-1/8(130)
Weight:	4.0 lbs. (1.8 kgs.)

	Electrical Application Data										
		AC Input		Output		Output Watts					
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs	4 hrs			
ELM	120	.11	1.2	6	12	_	_	_			
LLIVI	277	.12	1.5								
ELM2	120	.11	1.2	6	12	_	_	_			
	277	.12	1.5	J	12						

ELM/ELM2 Quick-Mount® Installation:

-) Feed leads through mounting plate and make connections to AC power supply.
- Align mounting plate on J-box and secure with screws.
- Connect battery and snap housing onto mounting plate.

NOTES:

Option available

(blank) Option not available

- 1 Not available with CSA option.
- 2 Available on ELM2 only.
- 3 Black ELM2 not available with damp location option.
- 4 Available on ELM only.
- $5\quad \mathsf{See}\,\mathsf{CSA}\,\mathsf{diagram}\,\mathsf{for}\,\mathsf{special}\,\mathsf{housing}\,\mathsf{dimensions}.$

For additional lamp heads, remote fixtures, options and accessories, see pages 449-451.

For application guide lines and fixture performance data, see pages 455 and 458.



www.lithonia.com, keyword: ELM

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation.

Features

White, compact, low-profile contemporary design with high-impact thermoplastic housing that is impact-resistant, corrosion-proof, UV-stable to resist discoloration from artificial light sources or sunlight.

Maintenance-free lead-calcium battery (standard).

Two 9W wedge-based krypton lamps offer 48 percent more light output than standard incandescent lamps.

Patented MR24, multi-faceted reflector significantly improves photometric performance; 60 to 100 percent more light delivered to the path of egress. Universal voltage input capability (120 through 277V, 50 or 60 Hz).

Unique track-and-swivel design permits full range of lamp head adjustment. Universal J-box mounting pattern. Tool-less access for maintenance. Flexible conduit entry provision on top of the unit.

Patent pending Quick-Mount® features simplify installation.

Vandal-resistant ELA VS2 polycarbonate shield available.

Wall or ceiling bracket included as a standard feature. Quantum® Series ELM6-12 will power a variety of remote devices up to rated wattage of fixture.

Listings

UL Listed. NOM Certified (see Options).

Quantum

Quick-Mount®



Example: ELM654 H2006 SD

Ordering Information

Family Lamp type **ELM618** 6V,18W 6-volt MR24 composite ELM627 6V,27W **ELM654** 6V,54W ELM1254 12V.54W 12-volt MR24 composite4 **ELM1272** 12V,72W (blank) 9W/12V krypton

Options Self-diagnostics⁵ (blank) 9W/6V krypton1 Black housing⁶ H1206 12W/6V halogen² Maintenance-free ni-cad battery7 **H2006** 20W/6V halogen³ Time delay5 Remote test⁸

H1212 12W/12V halogen RO Less heads⁹ Damp Locations^{7,10} H2012 20W/12V halogen -10° to 40°C (50° to

> 140°F) NOM NOM Certified¹¹

Accessories	(Order separately)
ELA LRT	Remote tester (laser)
ELA VS2	Polycarbonate vandal shield (1/8" thick)
ELA WG2M	Wireguard
ELA MR24	Compact MR24 remote lamp head ELA MR24 K0606 (5.4W,6V krypton)
	ELA MR24 K0906 (9W,6V krypton)
	ELA MR24 H1206 (12W,6V halogen)
	ELA MR24 K0912 (9W,12V krypton)
	ELA MR24 H1212 (12W,12V halogen)
	ELA MR24 H2006 (20W,6V halogen)
	ELA MR24 H2012 (20W,12V halogen)

Option available

(blank) Option not available

Туре	Hsg. Size	SD⁵	B ⁶	N ⁷	TD ⁵	RT ⁸	RO ⁹	DL ^{7,10}	NOM ¹¹	Lamp Number	Watt/ Lamp
ELM618	S									MR24 K0906	9
ELM627	S									MR24 K0906	9
ELM654	L									MR24 K0906	9
ELM1254	L									MR24 K0912	9
ELM1272	L									MR24 K0912	9

NOTES:

- 1 Available on ELM618, ELM627 and ELM 654 only.
- 2 Available on ELM627 and ELM654 only
- Available on ELM654 only.
- Available on ELM1254 and ELM1272 only.
- When ordering FLM618 and FLM1254, SD and TD must be ordered with the Noption.
- Available on ELM627 and ELM1272 only
- Available on ELM618, ELM627 and ELM1254 only.
- 8 RT not available with SD. When ordering RT, an ELA LRT needs to be ordered.
- 9 Not available with any other options.
- 10 Damplocation listed from 10°C to 40°C (50° to 104°F) except ELM618N, ELM627N and ELM1254N listed from 15°C to 32°C (60° to 90°F).
- 11 NOM available with ELM618 and ELM1254 only (not available with any other option).

For additional lamp heads, remote fixtures, options and accessories, see pages 449-451.

For application guidelines and fixture performance data, see pages 455 and 458.

	Electrical Application Data										
	AC Input			Output		Outpu	t Watts				
Туре	Volts	Amps	Watts	Volts	1½ hrs	2 hrs	3 hrs	4 hrs			
ELM618	120	.167	5.2	6	18	13.5	9	3			
	277	.072	5.6								
ELM627	120	.10	5.6	6	27	20	13.5	10			
	277	.04	7.4		-,		13.3	10			
ELM654	120	.250	7.4	6	54	40.5	27	20			
LEMOS I	277	.108	7.4	Ŭ	٥,	10.5	21	20			
ELM1254	120	.250	11.0	12	54	40.5	27	20			
	277	.108	11.1	- 12	٥.	10.5	21	20			
ELM1272	120	.250	11.0	12	72	54	36	27			
LLW12/2	277	.108	11.1	12	,,,	34	30	21			

light**quick**°X0 Express delivery products. See page11 for details about LightQuick XD. Description **ELM618 ELM627** ELM1254

ELM6-12 Quick-Mount® Installation:

- Feed leads through mounting plate and make connections to AC power supply.
- Align mounting plate on J-box and secure with screws.
- Snap housing onto mounting plate.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in inches (millimeters) unless otherwise

ELM618 ELM627 Width: 12.79"(324) Width: 12.79"(324) Depth: 4.73"(120) Depth: 4.73"(120) 7.01"(178) 7.01"(178) Height: Height: 6.8 lbs. (3.1 kgs.) Weight: 8.0 lbs. (3.6 kgs.)

ELM654,ELM1254&EL1272 Width: 12 79"(324) 5.82"(148) Depth: Heiaht: 7.01"(178) 13.0 lbs. (5.9 kgs.) Weight:



ELM654, ELM1254 and ELM1272



ELM618 and FI M627

🖊 LITHONIA LIGHTING

Recessed Emergency Lighting Units

ELR



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications that require attractive unit equipment or when wall mounting is undesirable.

Features

Heavy-duty recessed housing suitable for use in air-handling plenums.

PAR36 lamp heads standard; compact designer square lamp heads optional.

Sealed, maintenance-free battery (lead-calcium standard, nickel-cadmium optional) provides capacity for 90 minutes of emergency illumination.

Sturdy T-bar clips secure unit to grid members.

Adjustable bar hangers for easy mounting in walls and exposed or concealed suspended ceilings.

Listings

UL Listed. NOM Certified (see Options).

Ordering Information

Options

- SD Self diagnostic (ELR4 only)
- Maintenance-free nickel-cadmium batteries
- R0 Less lamp heads
- 6V/8W or 12V/8W halogen lamps
- **CDS** Compact designer square lamp heads
- N1812 18W/12V incandescent lamps
- N2512 25W/12V incandescent lamps
- H1212 12W/12V incandescent lamps
 - TD Time delay (12V only)
- NOM NOM Certified

 $Dimensions are shown in {\it inches (millimeters)} unless otherwise noted.$

PAR36

Length: 11-15/16(303) Width: 11-15/16(303)

5-7/8 (149) below ceiling plane

(FLR2) 16 lbs (7 3 kgs) (ELR4) 22.5 lbs. (10.2 kgs.)



						Option	S				Standard Lar	np
											Catalog	Watts/
Type	SD	N	R0	Н	CDS	N1812	N2512	H1212	TD	NOM	Number	Lamp
ELR2											N0806	8
ELR2P N											N0806	8
ELR4											N1212	12

Standard

Option available

Example: **ELR2 CDS**

Option not available

Special voltages/frequencies available; consult factory For additional lamp heads, remote fixtures, options and accessories, see

For spacing guidelines, see page 455.

Compact Designer Square

Length: 11-15/16(303)

Width: 13-3/8(340)

2-3/4(70) below ceiling plane Depth: Weight:

(ELR2CDS	15 lbs. (6	.8 kgs.)
(ELR4CDS	22.5 lbs.	(10.2 kas.)

		AC Inpu	t	Output	0	Output Watts				
	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs	4 hrs		
ELR2	120	.167	20	6	16	12	8	6		
	277	.072	20							
ELR2P N	120	.167	20	6	24	18	12	9		
	277	.072	20							
ELR4	120	.250	30	12	50	37	25	18		
	277	.108	30		- 0			70		

Electrical Application Data

Recessed Gimbal Emergency Lighting Unit

ELRG



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting.

Features

Matte white, baked enamel finish. All-metal housing and gimbal assembly.

High-output, 8W halogen lamp. Lamp adjusts in two planes to 26°.

Low-profile pilot light and test switch.

Approved for use in air-handling plenums.

Maintenance-free lead-calcium battery.

Mounts in 6" diameter opening.

Listings

UL Listed. NOM Certified units available (consult factory).

Dimensions are shown in inches (millimeters) unless otherwise noted.



8-3/8(213) Lenath Width: 8-3/8(213) 8-1/4(210) Depth Weight: 6.5 lbs. (3 kgs.)

Ordering Information

ELRG 6V, self-contained recessed gimbal

Electrical Application Data									
	AC Input								
Туре	Volts	Amps	Watts						
ELRG	120	.052	5.8						
ELKG	277	.023	5.9						



Example: **ELRG**

Contemporary Square Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring unobtrusive emergency lighting. Available flushed, semi-recessed or recessed.

Features

Maintenance-free lead-calcium (standard) or nickel-cadmium (optional) battery.

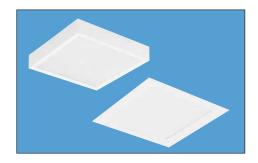
Push-to-test switch and "ready" light behind lens.

10W or two 8W (with 2L option) halogen lamp provides high lumen output.

Listings

UL Listed. NOM Certified (see Options).





Example: **ELSQ N LEX**

Options

- N Maintenance-free nickel-cadmium batteries
- AM Ammeter¹
- VM Voltmeter¹
- CS 3-foot cordset (120V only)

Ordering Information

- **LEX** Polycarbonate lens (standard with 2L option)
- **2L** Two 8 watt lamps with Lexan lens and high charge indicator (ELSQM only)²

NOM NOM Certified

			0p	tion Suf		Standard Lamp			
Туре	NOM	N	AM	VM	cs	2L	LEX	Catalog Number	Watts/ Lamps
ELSQ ELSQM	•	■	■1 ■1	■1 ■1		_ 2	:	787 787	10 10

Option available

(blank) Option not available

NOTES:

- Choice of VM or AM. Not available with both.
- 2 2Loption is UL Listed for a two-hourrun time. Not available with nickelcadmium option.

For additional lamp heads, remote fixtures, options and accessories, see pages 450-451.

Accessories	ccessories (Order separ							
RECESSING	KITS	Fixture	Compatibility					
		ELSQ	ELA SQR 6V					
		ELSQM	ELA SQR 12V					
ELA SRK	Semi-recessed							
ELA FRK	Fully-recessed							

Electrical Application Data										
		AC Inpu	t	Output	Output Watts					
Type	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs			
ELSO	120	.167	20	6	10					
LLJQ	277	.072	20	ŭ						
ELSQM	120	.167	20	6	20	16	10			
	277	.072	20			10	10			

 $Dimensions are shown in {\it inches (millimeters)} \ unless otherwise noted.$

Length: 10-5/16(262)
Width: 10-5/16(262)
Depth: 3-7/16(87)
Weight: 5 lbs (2.3 kgs.)

Weight: 5-7/16(67)
Weight: 5 lbs. (2.3 kgs.) ELSQ
7 lbs. (3.2 kgs.) ELSQM



Contemporary Cylinder Emergency Lighting Units

Intended Use

Provides a minimum of 90 minutes of illumination for 12 watts upon loss of AC power. Designed for environments requiring decorative emergency lighting fixtures.

Features

Black 16-gauge steel backplate and housing.

Contemporary white cylinder shroud with UV-stabilized high-temperature plastic optical lens.

Sturdy, adjustable cast-aluminum swivel.

One 8W halogen wedge-base lamp (single) or two 6W halogen wedge-base lamps (twin).

Wall or ceiling mount.

Dual-voltage input (120V/277V).

Sealed, maintenance-free lead-calcium battery provides 12W rated capacity.

Listings

UL Listed.

ELCC



Ordering Information

ELCC 120/277 Single lamp head cylinder emergency light

Twin lamp head cylinder emergency light

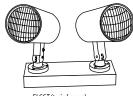
Electrical Application Data									
		AC Input		Output	Output Watts				
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs				
ELCC/ELCC T	120	.052	5.8	6	12				
ELCC/ELCC I	277	.023	5.9	_					

Example: ELCC T 120/277

 $Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in {\bf inches} ({\bf millimeters}) unless otherwise noted.$

ELCC Width: 6-1/2(165)

ELCC
Width: 6-1/2(165)
Depth: 13(330)
Height: 6-1/2(165)
Weight: 9lbs. (4.1 kgs.)



ELCCT (twin lamps)
Width: 13-1/4(337)
Depth: 13(330)
Height: 6-1/2(165)
Weight: 14lbs. (6.6 kgs.)

www.lithonia.com, keywords: ELSQ and ELCC



Indura®



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique, innovative design for a variety of light and heavy industrial applications and heavy commercial environments. Superior-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.

Features

Rugged blue and gray (standard colors) .140" thick, injection-molded thermoplastic.

Vertical orientation is designed especially for pole or column mounting. Also suitable for wall and I-beam mounting. Ceiling and pendant mounting, with accessory equipment, available on selected models.

Easy-mount installation with one galvanized, 12gauge steel mounting bracket shipped standard. Conduit entry points are located on top and both sides of the unit. Maintenance is made easy by tool-less re-lamp, single tool entry, hinging front cover, printed circuit board mounting shelf and battery belt.

Sealed maintenance-free, lead-calcium battery with wattage capacities from 18 to 450W for 90 minutes of emergency operation. Available in 6, 12 and 24V.

Dual-voltage input (120/277V). U.S. Patent No. D419,097, 6,135,624 and 6,193,395.

Listings

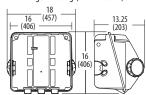
UL Listed. Damp location listing. Cold weather (ULT) listing. Meets UL 924, NFPA 101, NEC and OSHA illumination standards. NOM Certified units available (consult factory).

Ordering Information

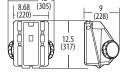
	Family	
	6 volts	
IND618	18W	
IND654	54W	
IND6100	100W	
11100100	12 volts	
	12 VOILS	
IND1236	36W	
IND1254	54W	
IND12100	100W	
IND12150	150W	
IND12300	300W	
IND12450	450W	
	24 volts	
IND24100	100W	
IND24450	450W	

Dimensions are shown in inches (millimeters) unless otherwise noted

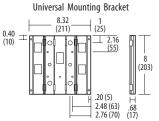
Large Housing (150W-450W)



Small Housing (18W-100W)



Universal Mounting Bracket



	Housing color	Vo	ltage⁵
(blank) W	Navy back, gray front White	(blank)	120/277
	TEC		

- 1 Must order a remote transmitter (ELA RTT). One per job required. Only available on IND618, IND1236 and IND12100.
- ELA IND PM accessory cannot be used with the IND 12100 PREM
- orIND12100ULT.
- IND12100 PREM and IND12100 ULT come in a larger housing size.
- Special voltages/frequencies available; consult factory. For spacing and performance guide lines, please see page 459.

	Lamp	type	
	6 volts	12 v	olts (cont'd)
PAF	R36 composite	PAR36	sealed-bea
(blank)	9W/6V krypton	H3512S	35W/12V
H1206	12W/6V halogen		halogen
H2006	20W/6V halogen	H5012S	50W/12V
	12 volts		halogen
PAF	R36 composite	2	24 volts
(blank)	9W/12V krypton	PAR3	6 composite
H1212	12W/12V halogen	(blank)	18W/24V
H2012	20W/12V halogen		incand.

12 volts (cont'd) PAR36 sealed-beam

halogen

PAR36 sealed-beam

H2024 20W/24V

N5024S 50W/24V

PAR36 composite

	12 10113			
PAR36 composite				
(blank)	9W/12V krypton			
H1212	12W/12V halogen			
H2012	20W/12V halogen			

Electrical Application Data								
		AC Input		Output		0utpu	ıt Watts	
Гуре	Volts	Amps	Watts	Volts	1-1/2hr.	2hr.	3hrs.	4hrs.
			Prim	ary Circui	it			
ND618	120	.163	19.6	6	18	13.5	9	6
	277	.069	19.11	6	18	13.5	9	6
ND654	120	.172	20.64	6	54	40	27	20
	277	.075	20.78	6	54	40	27	20
ND6100	120	.171	20.5	6	100	75	50	37
	277	.064	17.7	6	100	75	50	37
ND1236	120	.174	20.9	12	36	27	18	13
	277	.078	21.61	12	36	27	18	13
ND1254	120	.174	20.88	12	54	40	27	20
	277	.078	21.6	12	54	40	27	20
ND12100	120	.174	20.88	12	100	75	50	37
	277	.074	20.49	12	100	75	50	37
ND12150	120	.359	43.08	12	150	112	75	56
	277	.168	46.54	12	150	112	75	56
ND12300	120	.290	34.8	12	300	225	150	112
	277	.130	36.1	12	300	225	150	112
ND12450	120	.33	39.96	12	450	337	225	168
11012100	277	.15	43.77	12	450	337	225	168
ND24100	120	.33	39.6	24	100	75	50	37
11027100	277	.15	41.55	24	100	75	50	37
ND24450	120	.773	92.76	24	450	337	225	168
11027730	277	.327	90.58	24	450	337	225	168

Option packages

Example: IND1254 H1212 SEL

(blank)	Damp location 10°C to 40°C (50° F to
	103°F); except IND6100 and IND24450
	listed 15°C to 32°C (60°F to 90°F).

Extra package features remote test, time delay and damp location 10°C to 40°C (50° F to 104° F).1

SEL	Select package features self-diagnos-
	tics, time delay, audible failure indica-
	tion and damp location 10°C to 40°C
	(50° E to 104°E)

Premium package features high temperature ni-cad battery (IND618 and IND1236 only) or high ambient lead calcium battery (IND12100 only), self diagnostics, time delay, audible failure indication and damp location. UL Listed for 0°C to 55°C (32°F to 131°F).2,4

Ultimate package features heater, thermostat and battery blanket with a high temperature ni-cad battery (IND618 and IND1236 only) or a highambient lead-calcium battery $(IND 12100\,only), self diagnostics, time$ delay, audible failure indication and damp location. UL Listed for -40°C to 55°C (-40°F to 131°F).2,4

Accessories	(Order separately)
ELA RTT	Remote transmitter
ELA WG2M	Small wireguard (18W-100W)
ELA BS	Banding strap
ELA IND R3	Pre-pack to install third head
ELA IND PM	Pendant mount kit ³
ELA IND CM1	Ceiling mount kit for IND618
ELA IND CM2	Ceiling mount kit for IND354/1236/1254
ELA IND CM3	Ceiling mount kit for IND6100
ELA IND RH3	Remote head bracket for surface mount j-boxes
ELA WGLG	Large wireguard (150-450W)



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique design for heavy and demanding industrial applications such as manufacturing plants, refineries, chemical plants, wastewater treatment facilities, food processing facilities, breweries, loading docks and other applications subject to hosedown or industrial conditions. Superior-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.

Features

Rugged, heavy-duty polycarbonate housing is sealed, gasketed and corrosion resistant.

Vertical orientation - designed especially for pole or column mounting. Also suitable for wall and I-beam mounting.

Easy-mount installation with one epoxy-coated galvanized, 12-gauge steel mounting bracket shipped standard. Conduit entry points are located on top and both sides of the unit. Maintenance is made easy by tool-less re-lamp, single tool entry, hinging front cover, printed circuit board mounting shelf and battery belt.

Sealed maintenance-free, lead-calcium battery with wattage capacities from 18 to 125W for 90 minutes of emergency operation. Available in 6, 12 and 24V.

Dual-voltage input (120/277V). U.S. Patent No. D419,097, 6,135,624 and 6,193,395.

Listings

UL Listed. Cold weather (ULT) listing. Meets UL 924, NFPA 101, NEC and OSHA illumination standards. NOM Certified units available (consult factory). NEMA 4; 4X Rated. IP66 and NSF listed.



Example: INDX12100 H1212 ULT

Ordering Information

Fami	ly		Housir	ıg color
6 vol	ts	_	(blank)	Gray
INDX618	18W	_	W	White
INDX654	54W			
INDX6100	100W			
12 vo	lts			
INDX1236	36W			
INDX1254	54W			
INDX12100	100W ¹			
INDX12125	125W			
24 vo	lts			
INDX24100	100W			

	Lamp ty
	6 volts
PAF	R36 composite
(blank)	9W/6V krypton
H1206	12W/6V halogen
H2006	20W/6V halogen
	12 volts
PAF	R36 composite
(blank)	9W/12V krypton
H1212	12W/12V halogen
H2012	20W/12V halogen

e (2 neads)	
12	volts (cont'd)
PAR3	86 sealed-beam
H3512S	35W/12V halogen
H5012S	50W/12V halogen
	24 volts
PAF	R36 composite
(blank)	18W/24V incand.
H2024	20W/24V halogen
PAR3	86 sealed-beam
N5024S	50W/24V incand.

Option	packages

(blank) UL Listed to 4X standards.

Extra package features remote test and time delay. UL Listed for 10°C to 40°C (50°F to 104°F).2

Select package features self diagnostics, time delay and audible failure indicator. UL Listed for 10°C to 40°C (50°F to 104°F).

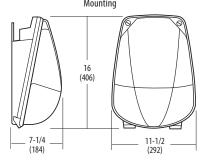
Premium package features high temperature nickel-cadmium battery (INDX618 or INDX1236 only) or high ambient lead-calcium battery (INDX12100 only), selfdiagnostics, time delay and audible failure indication. UL Listed for 10°C to 55°C

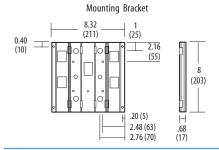
ULT Ultimate package features heater, thermostat and battery blanket with a high temperature nickel-cadmium battery (INDX618 or INDX1236 only) or high ambient lead-calcium battery (INDX12100 only), self-diagnostics, time delay and audible failure indication. UL Listed for -40°C to 55°C (-40°F to 131°F).3

		Elect	rical App	lication	Data			
		AC Input		Output	. Oı	ıtput W	/atts	
Туре	Volts	Amps	Watts	Volts	1-1/2hr.	2hr.	3hrs.	4hrs.
			Primary	/ Circuit				
INDX618	120	.093	19.56	6	18	13.5	9	6
	277	.41	19.11	6	18	13.5	9	6
INDX654	120	.171	20.64	6	54	40	27	20
INDAUGA	277	.073	20.78	6	54	40	27	20
INDX6100	120	.144	20.52	6	100	75	50	37.5
INDAOTOO	277	.062	20.22	6	100	75	50	37.5
INDX1236	120	.174	18.24	12	36	27	18	13
INDXIZO	277	.078	17.73	12	36	27	18	13
INDX1254	120	.174	20.88	12	54	40	27	20
INDXIZJT	277	.078	21.61	12	54	40	27	20
INDX12100 ¹	120	.160	20.88	12	100	75	50	37.5
INDXIZIO	277	.072	20.55	12	100	75	50	37.5
INDX12125	120	.160	20.88	12	125	93	62	46
1110/12/123	277	.072	20.55	12	125	93	62	46
INDX24100	120	.33	39.6	24	100	75	50	37
1110/27100	277	.15	41.55	24	100	75	50	37

Accessories	(Order separately)
ELA RTT	Remote test trasmitter ² (for use with XTRA package, remote testing option.
ELA BS	Banding strap
ELA INDX CM2	Ceiling mount kit for INDX654/ 1236/1254
ELA WG4/8	Wireguard

Dimensions are shown in inches (millimeters) unless otherwise noted. Mounting





For spacing and performance guide lines, please see page 459.

 $1\quad INDX12100\, available\, with\, either the\, PREM\, or\, ULT\, package\, only.$ Must order a remote transmitter (ELARTT). One per job required. Only available on INDX618, INDX1236 or INDX12100.

A LITHONIA LIGHTING

Power Sentry® General Spacing Guidelines

					2X2)										2)	⟨4				Tu	rret
	2G	T8	25	P8	2.	AV	2P1	۸3N	2P	M0	2GT	8 3	2SF	8 3	2A\	/3 3	2PM	3N3 3	2PN	03 3	indus	trials
	2 U	316	2 U	316	2 0	F40	2 U	316	2١	J31	3	2	3	2	3	2		32	3	32	AF:	2 96
	11	-(1	FC	1F	C	1F	C	1F	C	1F	C	1F	C	1	FC	1	FC	1F	C	1	FC
Туре	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min	Avg	Min
											Corrid	lor										
PS300QD	18	14	20	14	14	12	17	14	17	13	20	16	24	16	18	14	21	16	21	16		
PSQ500QD	32	18	31	18	24	17	27	18	27	16	32	22	35	22	28	20	32	22	32	19		
PS600QD	39	21	40	20	29	21	35	20	28	17	40	25	43	24	34	25	40	25	40	20		
PS1400QD	58	29	54	30	53	29	48	29	42	21	47	31	57	25	59	32	53	31	43 ¹	25		
										0	pen 0	ffice										
PS300QD	16	13	16	13	14	12	14	12	14	12	16	13	16	14	13	11	17	14	18	14		
PS500QD	26	17	27	17	24	16	24	17	23	17	26	17	29	17	21	15	27	18	29	17		
PS600QD	32	19	33	18	29	18	29	16	28	19	32	18	35	19	26	17	34	20	35	18		
PS1400QD	26 ¹	25	47	24	47	26	38	22	26 ¹	22	47	24	47	24	47	25	45	27	33 ¹	22		
											ndust	rial										
PS1400QD																					25	23

NOTES

 $1\quad Limited spacing due to 40:1 \, max to \, min\, ratio \, requirement \, by \, NFPA\, 101.$

All spacings are intended to be guidelines. Results will vary if application deviates from dimensions or assumptions stated below.

Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes a 1.0 FC minimum requirement. Assumes 3T8 lamps in each fixture, 6' wide path of egress, and a 9' ceiling height (exception: 18' ceiling on industrials).

Assumptions to arrive at these spacings: Open office dimensions/reflectances: 100'Lx80'Wxm9'Hwith80/50/20reflectances. Corridor dimensions/reflectances: 100'Lx8'Wx9'Hwith80/50/20reflectances. Industrial dimensions/reflectances: 200'Lx200Wx18Hwith10/10/10reflectances.



General Spacing Guidelines for Sealed-Beam and Composite Lamps

						Fixture Spacing														
							mou	'.5' Inting ight	mou	12' Inting ight	14 mour heig	iting	10 moui hei	nting	10 moui hei	nting	mou	20' Inting ight	25 moun heig	ting
Catalog						Beam	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1 FC	1FC	1 FC	1FC	1 FC	1 FC	1FC
Number	Volts	Watts	Type	Lumens	Lamp #	ΗxV	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
							Sealed E	Beam Lai	mps											
N0806S N1206S N1806S	6 6 6	8 12 18	Incandescent Incandescent Incandescent	54 177 184	7613-1 4042 4014	30 x 20 45 x 20 50 x 25	20 20 25	_				_ _ _	— 18 22	_	— 17 20	_ _ _	 15 20	_	 18	_
N2506S	6	25	Incandescent	395	4510	80 x 20	25	_	38	_	38	_	36	_	34	_	32	_	27	_
N1212S N1812S	12 12	12 18	Incandescent Incandescent	177 184	4044-1 4414	50 x 25 50 x 25	25 25	_	20 23	_	19 23	_	19 22	_	16 20	_	15 20	_	— 18	_
N2512S	12	25	Incandescent	238	4446	80 x 30	32	_	20	_	19	_	18	_	16	_	15	_	_	_
N3512S	12	35	Incandescent	350	4411-1	Trapezoid	_	_	46	_	46	_	46	_	46	16	44	17	38	20
N5012S	12	50	Incandescent	200	50PAR36NSP	Spot	_	—	32	_	32	_	32	_	32	_	32	16	32	17
N5024S	24	50	Incandescent	420	4504	11 x 5	_		65	_	60	_	60	_	55		55	_	55	
H0606S	6	6	Halogen	110	H7556	30 x 20	_	—	28	_	26	_	26	15	24	16	22	16	20	15
H0806S	6	8	Halogen	150	H7551	30 x 20	25	—	16	_	16	_	15	_	_	_	_	_	_	_
H1206S	6	12	Halogen	263	H7553	30 x 20	28	_	28	_	26	-	26	15	24	16	22	16	20	15
H2006S	6	20	Halogen	400	H7554	30 x 20	_	_	46	_	46	_	46	_	46	_	42	_	40	16
H0812S	12	8	Halogen	150	H7555	30 x 20	25	_	16	_	16	_	15	_	_	_	_	_	_	_
H1212S	12	12	Halogen	263	H7557	30 x 20	37	_	28	_	27	_	26	16	24	16	23	16	20	16
H3512S	12	37.5	Halogen	706	H7600	9 x 4.5	_	_	75	_	70	_	70	_	70		70	_	70	_
H5012S	12	50	Halogen	940	H7604	7 x 5	_		80	_	80		80	_	80		80	_	80	_

Assumptions: Meets Life Safety Code® standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 maximum/minimum ratio. Assumes 6' wide path of egress in 15' wide aisle of 200X200', open warehouse with reflectances of 10/10/10. For Indura® spacing guidelines, see page 456.

						Fixture Spacing	J
					7.5'	10'	16'
Catalog					mounting	mounting	mounting
Number	Volts	Watts	Type	Lumens	height	height	height
			Quantum [®]	Composite La	mps		
CDS N0606	6	6	Incandescent	68	CF		
CDS N0806	6	8	Incandescent	100	11'		
CDS N0906	6	9	Incandescent	150	20'		
CDS N0912	12	9	Incandescent	138	17'		
CDS N1212	12	12	Incandescent	151	18'		
CDS H0606	6	6	Halogen	113	15'		
CDS H0806	6	8	Halogen	163	19'		
CDS H0812	12	8	Halogen	163	15'		
CDS H1212	12	12	Halogen	276	25'		
			MR24 Co	mposite Lamp	25		
MR24 K0606	6	6	Krypton	90	25	-	-
MR24 K0906	6	9	Krypton	180	25	31	27
MR24 K0912	12	9	Krypton	190	25	33	29
MR24 H1206	6	12	Halogen	238	-	29	22
MR24 H1212	12	12	Halogen	276	-	31	39
MR24 H2006	6	20	Halogen	418	-	35	52
MR24 H2012	12	20	Halogen	317	_	43	38

 $NOTE: All \, spacings \, are \, intended \, as \, guidelines. \, Results \, will \, vary \, if \, application \, deviates \, from \, dimension \, or \, assumptions \, state \, below.$

 $Assumptions: Meets Life Safety Code @ standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 maximum/minimum ratio. \\ Assumes open space with no obstructions, 9' ceiling height, 3' wide path of egress, and reflectances of 80/50/20.$



General Spacing Guidelines for Indura® and Indura® 4X Lamps

						Fixture Spacing ¹											
						1.	2′	14	4′	16	6′	1	18′	20	0′	2	4′
						mour	nting	moui	nting	mour	nting	mou	ınting	mour	nting	mou	nting
						hei	ght	hei	ght	hei	ght	he	ight	hei	ght	hei	ight
Catalog						1 F	C	1 F	C	1 F	C	1 F	C	1 F	C	1 F	:C
Number	Volts	Watts	Туре	Lumens	Beam	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
							ra® Com	posite Lam									
K0906	6	9	Kryp.	180	Medium	26		26	_	23		20	_	20	_	10	-
K0912	12	9	Kryp.	190	Medium	24		24	_	22	_	22	_	22	_	20	_
N1824	24	18	Inc.	289	Flood	36	_	36	_	34	_	34	15	32	15	28	15
					Spot	32	-	32	-	32	-	30	-	30	-	28	-
H1206	6	12	Hal.	238	Medium	28	16	28	16	26	16	24	18	22	18	20	15
					Flood	17	_	16	_	15	_	-	_	_	_	_	-
					Spot	46	16	46	16	45	16	43	16	41	16	39	16
H2006	6	20	Hal.	402	Medium	35	22	34	24	33	24	31	23	29	22	24	18
					Flood	22	15	21	15	20	15	18	15	17	_	_	_
					Spot	38	-	38	-	38	-	38	-	37	-	33	15
H1212	12	12	Hal.	276	Medium	35	16	35	17	33	19	31	20	30	21	26	21
					Flood	22	-	21	-	21	-	20	15	18	-	-	-
					Spot	38	-	38	-	36	-	36	-	34	-	30	15
H2012	12	20	Hal.	314	Medium	26	19	26	19	23	19	23	18	21	18	17	15
					Flood	15		15	-	_	_	-	_	-		_	-
					Spot	38	-	38	-	37	-	35	-	33	-	30	-
H2024	24	20	Hal.	300	Medium	38	-	38	-	37	15	35	16	33	17	29	19
					Flood	23	-	23	-	22	-	20	-	18	-	15	-
						Indura	® 4X Cor	nposite Lai	mps								
K0906	6	9	Kryp.	180	Medium	22	_	21	_	21	_	20	_	18	_	16	-
K0912	12	9	Kryp.	190	Medium	20	-	20	-	19	_	19	_	18	_	16	-
N1824	24	18	Inc.	289	Flood	34	-	34	-	33	_	32	15	32	15	27	15
					Spot	25	-	25	-	25	-	25	-	25	-	25	-
H1206	6	12	Hal.	238	Medium	25	16	22	16	22	16	20	18	19	18	15	15
					Flood	17	-	16	-	14	_	13	-	12	-	10	_
					Spot	38	16	38	16	38	16	38	16	38	16	38	16
H2006	6	20	Hal.	402	Medium	35	22	33	24	33	24	32	23	31	22	28	18
					Flood	26	15	24	15	22	15	20	15	18	-	16	-
					Spot	30	-	30	-	30	-	30	-	30	-	26	15
H1212	12	12	Hal.	276	Medium	28	16	27	17	25	19	24	20	22	21	20	21
					Flood	18	-	16	_	15	-	14	15	12	-	10	-
					Spot	33	-	33	-	33	-	33	-	33	-	29	15
H2012	12	20	Hal.	314	Medium	26	19	26	19	23	19	23	18	21	18	17	15
					Flood	15	-	15	-	-	-	-	_	-	_	_	-
					Spot	34	-	34	-	34	-	33	-	32	-	30	-
H2024	24	20	Hal.	300	Medium	35	-	34	-	34	15	34	16	33	17	31	19
					Flood	29	-	26	_	25	-	22	-	21	-	18	-
	I				Ind	ura®/Ind	ura® 4X	Sealed-Bea	m Lamps ²			1					
N5024S	24	50	Inc.	420	11 X 17	65	_	60	_	60	_	55	_	55	_	55	_
H3512S	12	35	Hal.	706	9 X 4.5	75	_	70	_	70	_	70	_	70	_	70	_
H5012S	12	50	Inc.	940	7 X 5	80	_	80	_	80	_	80	_	80	_	80	_

NOTES

- 1 All spacings are intended to be guidelines, and meet Life Safety Code® standard minimum illuminance of 0.1FC, average illuminance of 1.0 FC, and 40:1 max/min ratio. The 1FC minimum fixture spacing meets a 0.1FC minimum illuminance, 1.0 FC average illuminance, and a 40:1 max/min ratio. Results will vary if application deviates from dimensions or assumptions stated. Spacing guidelines assume: 6' wide path of egress in 15' wide aisle of 200'x200'x30' open warehouse with reflectances of 10/10/10.
- 2 Sealed-beam lamp spacings were generated using the Indura® fixture.



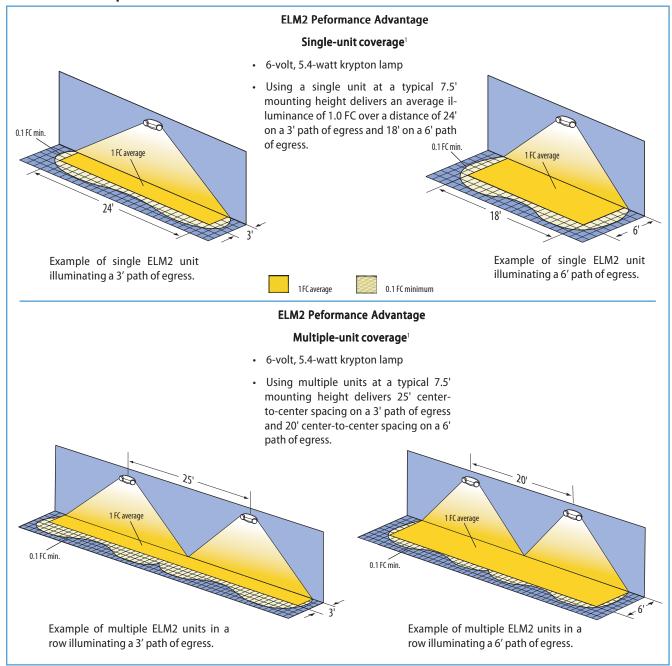
As Lithonia Lighting continues to improve the performance of its emergency lighting products, we also continue to improve the manner in which we communicate our products' performance. Instead of relying on lamp iso-footcandle diagrams to compare one source to the next, we now perform point-by-point illuminance calculations to more accurately depict how our products will perform in real commercial or industrial applications.

Point-by-point calculations depict illuminance coverage of an individual unit and/or multiple units in a space. Graphical representation of point-by-point for both a 3' and 6' path of egress are highlighted throughout the next few pages.

In the graphical representation, the rectangle depicts the area where an average of one footcandle (FC) is maintained. The surrounding curve represents the minimum 0.1 FC isocontour along

the floor. The coverage of an individual unit, as well as the maximum spacing that can be achieved with multiple units is depicted in feet. The footnotes detail all the relevant information necessary to replicate each layout using your own lighting analysis software and IESNA format photometrics.

ELM2 MR24 Lamp Head

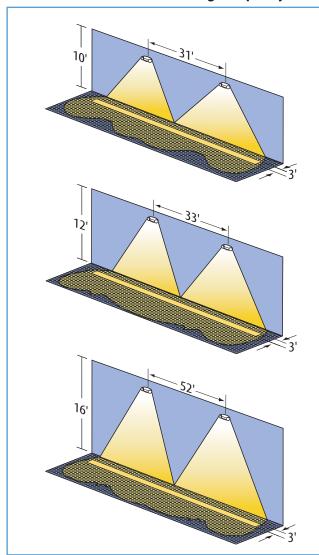


NOTES:

1 Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 7.5', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.

/A LITHONIA LIGHTING®

High-Capacity Quantum® MR24 Lamp Head



ELM6 PERFORMANCE ADVANTAGE¹

- 6-volt, 9-watt krypton lamp
- Typical 10' mounting height delivers 31 feet center-to-center spacing

1FC average

0.1 FC minimum

ELM12 PERFORMANCE ADVANTAGE¹

- 12-volt, 9-watt krypton lamp
- Typical 12' mounting height delivers 33 feet center-to-center spacing

ELM6 HALOGEN PERFORMANCE ADVANTAGE¹

- 6-volt, 20-watt halogen lamp
- Higher mounting heights deliver 50+ feet center-to-center spacing

MR24 Lamp Head Recommended Center-to-Center Spacing Chart

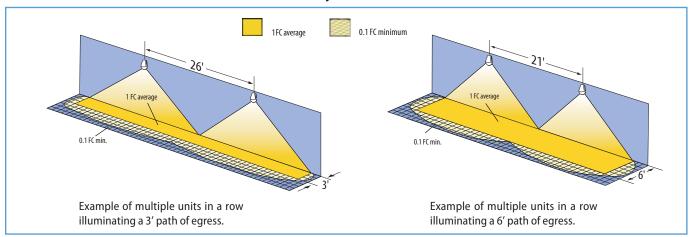
Lamp	Lamp	Quantum [®]	7.5'	10'	12'	16'	20'
type	voltage/	unit lamp	mounting	mounting	mounting	mounting	mounting
	wattage	is used on	height	height	height	height	height
K0606	6V/5.4W	ELM2 ²	25'	N/A	N/A	N/A	N/A
K0906	6V/9W	ELM618 ² , ELM27 ² , ELM654 ²	25'	31'	29'	27'	23'
K0912	12V/9W	ELM1254 ² , ELM1272 ²	25'	33'	30'	29'	28'
H1206	6V/12W	ELM627, ELM654	N/A	29'	N/A	22'	N/A
H1212	12V/12W	ELM1254, ELM1272	N/A	31'	33'	39'	41'
H2006	6V/20W	ELM654	N/A	35'	37'	52'	49'
H2012	12V/20W	ELM1254, ELM1272	N/A	43'	41'	38'	32'

NOTES

- $1 \quad \text{Meets Life Safety Code} \\ \text{$^{$$}$ standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, 3-foot-wide path of egress, and reflectances of 80/50/20.} \\$
- 2 Standard lamp for this unit.



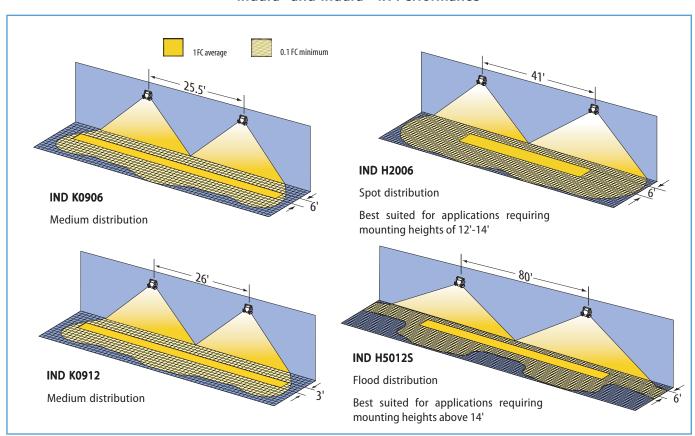
Affinity® Performance1



Affinity® Recommended Center-to-Center Spacing Chart

Xenon	Path of egress	Path of egress
lamp	3'-wide	6'-wide
Center-to-center spacing	26'	21'

Indura® and Indura® 4X Performance²

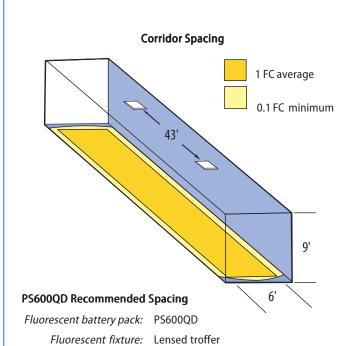


NOTES

- $1 \quad \text{Meets Life Safety Code standard minimum illuminance} \ of 0.1FC and average illuminance} \ of 1.0FC. Assumes open space with no obstructions, mounting height 8.5', ceiling height 9', and reflectances: 80/50/20.$
- 2 Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes space of 200'L X 200'W X 30'H, mounting height: 12', ceiling height 30', and reflectances 10/10/10. Analysis based on independently tested photometrics.

 $Please\,refer\,to\,page\,456\,for\,recommended\,spacing\,chart.$

Power Sentry Performance



Lamp type: F32T8

Power Sentry® Recommended Center-to-Center Spacing Chart

One Fo	One Footcandle Average Spacing Guidelines – Corridor										
	T8 lensed troffer T8 direct/indirect T8 parabolic										
PS300QD	24'	18'	21'								
PSQ500QD	35'	28'	32'								
PS600QD	43'	34'	40'								
PS1400QD	57'	59'	53'								

NOTE

Meets Life Safety Code® standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes (3) T8 lamps in each fixture, 8'W X 100'L corridor, ceiling height of 9' and reflectances of 80/50/20.

Open Office Spacing 1 FC average 0.1 FC minimum 45' 9' PS1400QD Recommended Spacing

Power Sentry® Recommended Center-to-Center Spacing Chart

One Foo	One Footcandle Average Spacing Guidelines – Open Office										
	T8 lensed troffer T8 direct/indirect T8 parabolic										
PS300QD	16'	13'	17'								
PSQ500QD	29'	21'	27'								
PS600QD	D 35' 26' 34'										
PS1400QD	47'	47'	45'								

NOTE:

Meets Life Safety Code @standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes (3) T8 lamps in each fixture, 100 "W X 100 "Lopen office, ceiling height of 9" and reflectances: 80/50/20.

Fluorescent battery pack: PS1400QD

Fluorescent fixture: 2 x 4 parabolic Lamp type: F32T8

SECTION 1006

MEANS OF EGRESS ILLUMINATION

1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.

Exceptions:

- (1) Occupancies in Group U.
- (2) Aisle accessways in Group A.
- (3) Dwelling units and sleeping units in Groups R-1, R-2 and R-3.
- (4) Sleeping units of Group I occupancies.

1006.2 Illumination level. The means of egress illumination level shall not be less than 1 foot-candle (11 lux) at the floor level.

Exception: For auditoriums, theaters, concert or opera halls and similar assembly occupancies, the illumination at the floor level is permitted to be reduced during performances to not less than 0.2 foot-candle (2.15 lux) provided that the required illumination is automatically restored upon activation of a premise's fire alarm system where such system is provided.

1006.3 Illumination emergency power. The power supply for means of egress illumination shall normally be provided by the premise's electrical supply.

In the event of power supply failure, an emergency electrical system shall automatically illuminate the following areas:

- (1) Exit access corridors, passageways and aisles in rooms and spaces which require two or more means of egress.
- (2) Exit access corridors and exit stairways located in buildings required to have two or more exits.
- (3) Exterior egress components at other than the level of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.
- (4) Interior exit discharge elements, as permitted in Section 1023.1, in buildings required to have two or more exits.
- (5) The portion of the exterior exit discharge immediately adjacent to exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

1006.4 Performance of system. Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 1 foot-candle (11 lux) and a minimum at any point of 0.1 foot-candle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 foot-candle (6 lux) average and a minimum at any point of 0.06 foot-candle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

SECTION 1011

EXIT SIGNS

1011.1 Where required. Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. Access to exits shall be marked by readily visible exit signs in cases where the exit or the path of egress travel is not immediately visible to the occupants. Exit sign placement shall be such that no point in an exit access corridor is more than 100 feet (30480 mm) or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign.

Exceptions:

- (1) Exit signs are not required in rooms or areas which require only one exit or exit access.
- (2) Main exterior exit doors or gates which obviously and clearly are identifiable as exits need not have exit signs where approved by the building official.
- (3) Exit signs are not required in occupancies in Group U and individual sleeping units or dwelling units in Group R-1, R-2 or R-3.
- (4) Exit signs are not required in sleeping areas in occupancies in Group I-3.
- (5) In occupancies in Groups A-4 and A-5, exit signs are not required on the seating side of vomitories or openings into seating areas where exit signs are provided in the concourse that are readily apparent from the vomitories. Egress lighting is provided to identify each vomitory or opening within the seating area in an emergency.
- **1011.2 Illumination.** Exit signs shall be internally or externally illuminated.

Exception: Tactile signs required by Section 1011.3 need not be provided with illumination.

1011.3 Tactile exit signs. A tactile sign stating EXIT and complying with ICC A117.1 shall be provided adjacent to each door to an egress stairway, an exit passageway and the exit discharge.

1011.4 Internally illuminated exit signs. Internally illuminated exit signs shall be listed and labeled and shall be installed in accordance with the manufacturer's instructions and Section 2702. Exit signs shall be illuminated at all times.

1011.5 Externally illuminated exit signs. Externally illuminated exit signs shall comply with Sections 1011.5.1 through 1011.5.3.

1011.5.1 Graphics. Every exit sign and directional exit sign shall have plainly legible letters not less than 6 inches (152 mm) high with the principal strokes of the letters not less than 0.75 inch (19.1 mm) wide. The word "EXIT" shall have letters having a width not less than 2 inches (51 mm) wide except the letter "I," and the minimum spacing between letters shall not be less than 0.375 inch (9.5 mm). Signs larger than the minimum established in this section shall have letter widths, strokes and spacing in proportion to their height.

The word "EXIT" shall be in high contrast with the background and shall be clearly discernible when the exit sign illumination means is or is not energized. If an arrow is provided as part of the exit sign, the construction shall be such that the arrow direction cannot be readily changed.

1011.5.2 Exit sign illumination. The face of an exit sign illuminated from an external source shall have an intensity of not less than 5 foot-candles (54 lux).

1011.5.3 Power source. Exit signs shall be illuminated at all times. To ensure continued illumination for a duration of not less than 90 minutes in case of primary power loss, the sign illumination means shall be connected to an emergency power system provided from storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.

Exception: Approved exit sign illumination means that provide continuous illumination independent of external power sources for a duration of not less than 90 minutes, in case of primary power loss, are not required to be connected to an emergency electrical system.

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7.8 Illumination of Means of Egress. 7.8.1 General.

- **7.8.1.1*** Illumination of means of egress shall be provided in accordance with Section 7.8 for every building and structure where required in Chapter 11 through Chapter 42. For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, walkways, and exit passageways leading to a public way.
- **7.8.1.2** Illumination of means of egress shall be continuous during the time that the conditions of occupancy require that the means of egress be available for use, unless otherwise provided in 7.8.1.2.2.
- **7.8.1.2.1** Artificial lighting shall be employed at such locations and for such periods of time as are necessary to maintain the illumination to the minimum criteria values herein specified.
- **7.8.1.2.2** Automatic, motion sensor—type lighting switches shall be permitted within the means of egress, provided that the switch controllers are equipped for fail-safe operation, the illumination timers are set for a minimum 15-minute duration, and the motion sensor is activated by any occupant movement in the area served by the lighting units.
- **7.8.1.3*** The floors and other walking surfaces within an exit and within the portions of the exit access and exit discharge designated in 7.8.1.1 shall be illuminated as follows: (1) During conditions of stair use, the minimum illumination for new stairs shall be at least 10 ft-candle (108 lux), measured at the walking surfaces. (2) The minimum illumination for floors and walking surfaces, other than new stairs during conditions of stair use, shall be to values of at least 1 ft-candle (10.8 lux), measured at the floor. (3) In assembly occupancies, the illumination of the floors of exit access shall be at least 0.2 ft-candle (2.2 lux) during periods of performances or projections involving directed light. (4)*The minimum illumination requirements shall not apply where operations or processes require low lighting levels.
- **7.8.1.4*** Required illumination shall be arranged so that the failure of any single lighting unit does not result in an illumination level of less than 0.2 ft-candle (2.2 lux) in any designated area.
- **7.8.1.5** The equipment or units installed to meet the requirements of Section 7.10 also shall be permitted to serve the function of illumination of means of egress, provided that all requirements of Section 7.8 for such illumination are met.

7.8.2 Sources of Illumination.

- **7.8.2.1*** Illumination of means of egress shall be from a source considered reliable by the authority having jurisdiction.
- **7.8.2.2** Battery-operated electric lights and other types of portable lamps or lanterns shall not be used for primary illumination of means of egress. Battery-operated electric lights shall be permitted to be used as an emergency source to the extent permitted under Section 7.9.

7.9 Emergency Lighting. 7.9.1 General.

- **7.9.1.1*** Emergency lighting facilities for means of egress shall be provided in accordance with Section 7.9 for the following: (1) Buildings or structures where required in Chapter 11 through Chapter 42 (2) Underground and limited access structures as addressed in Section 11.7 (3) High-rise buildings as required by other sections of this *Code* (4) Doors equipped with delayed-egress locks (5) Stair shaft and vestibule of smokeproof enclosures, for which the following also apply: (a) The stairshaft and vestibule shall be permitted to include a standby generator that is installed for the smokeproof enclosure mechanical ventilation equipment. (b) The standby generator shall be permitted to be used for the stair shaft and vestibule emergency lighting power supply. (6) New access-controlled egress doors in accordance with 7.2.1.6.2.
- **7.9.1.2** For the purposes of 7.9.1.1, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of 7.9.1.1, exit dischargeshall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.
- **7.9.1.3** Where maintenance of illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

7.9.2 Performance of System.

- $\textbf{7.9.2.1*} \\ Emergency illumination shall be provided for not less than 1-1/2 hours in the event of failure of normal lighting. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level. Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of the 1-1/2 hours. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.$
- **7.9.2.2** New emergency power systems for emergency lighting shall be at least Type 10, Class 1.5, Level 1, in accordance with NFPA110, Standard for Emergency and Standby Power Systems.
- **7.9.2.3*** The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any interruption of normal lighting due to any of the following: (1) Failure of a public utility or other outside electrical power supply (2) Opening of a circuit breaker or fuse (3) Manual act(s), including accidental opening of a switch controlling normal lighting facilities.
- **7.9.2.4** Emergency generators providing power to emergency lighting systems shall be installed, tested, and maintained in accordance with NFPA 110, Standard for Emergency and Standby Power Systems. Stored electrical energy systems, where required in this Code, shall be installed and tested in accordance with NFPA 111, Standard on Stored Electrical Energy Emergency and Standby Power Systems.
- **7.9.2.5** Unit equipment and battery systems for emergency luminaires shall be listed to UL 924, *Standard for Emergency Lighting and Power Equipment*.
- 7.9.2.6*Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA70, National Electrical Code.

7.9.2.7 The emergency lighting system shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.

7.9.3 Periodic Testing of Emergency Lighting Equipment.

- **7.9.3.1** Required emergency lighting systems shall be tested in accordance with one of the three options offered by 7.9.3.1.1, 7.9.3.1.2, or 7.9.3.1.3.
- **7.9.3.1.1** Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Functional testing shall be conducted at 30-day intervals for not less than 30 seconds. (2) Functional testing shall be conducted annually for not less than 1-1/2 hours if the emergency lighting system is battery powered. (3) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1(1) and 7.9.3.1.1(2). (4) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.
- **7.9.3.1.2** Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided. (2) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine. (3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator. (4) A visual inspection shall be performed at intervals not exceeding 30 days. (5) Functional testing shall be conducted annually for not less than 1-1/2 hours. (6) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the 1-1/2 hourtest. (7) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.
- **7.9.3.1.3** Testing of required emergency lighting systems shall be permitted to be conducted as follows: (1) Computer-based, self-testing/self-diagnostic batteryoperated emergency lighting equipment shall be provided. (2) The emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine. (3) The emergency lighting equipment shall automatically perform annually a test for not less than 1-1/2 hours. (4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and 7.9.3.1.3(3). (5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

7.10 Marking of Means of Egress.

- **7.10.1.1 Where Required.** Means of egress shall be marked in accordance with Section 7.10 where required in Chapter 11 through Chapter 42.
- **7.10.1.2* Exits.** Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.
- **7.10.1.3 Exit Door Tactile Signage.** Tactile signage shall be provided to meet the following criteria, unless otherwise provided in 7.10.1.4: (1) Tactile signage shall be located at each exit door requiring an exit sign. (2) Tactile signage shall read as follows: EXIT. (3) Tactile signage shall comply with ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities*.
- **7.10.1.4 Existing Exemption.** The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.



7.10.1.5 Exit Access.

- **7.10.1.5.1** Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.
- **7.10.1.5.2*** New sign placement shall be such that no point in an exit access corridor is in excess of the rated viewing distance or 100 ft (30 m), whichever is less, from the nearest sign.
- **7.10.1.6* Floor Proximity Exit Signs.** Where floor proximity exit signs are required in Chapter 11 through Chapter 42, such signs shall be located near the floor level in addition to those signs required for doors or corridors. The signs shall be illuminated in accordance with 7.10.5. Externally illuminated signs shall be sized in accordance with 7.10.6.1. The bottom of the sign shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.
- **7.10.1.7* Floor Proximity Egress Path Marking.** Where floor proximity egress path marking is required in Chapter 11 through Chapter 42, a listed and approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm system is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2. The system shall be maintained in accordance with the product manufacturing listing
- **7.10.1.8* Visibility.** Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.
- **7.10.1.9 Mounting Location.** The bottom of new egress markings shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) above the top edge of the egress opening intended for designation by that marking. Egress markings shall be located at a horizontal distance of not more than the required width of the egress opening, as measured from the edge of the egress opening intended for designation by that marking to the nearest edge of the marking.
- **7.10.2* Directional Signs.** A sign complying with 7.10.3 with a directional indicator showing the direction of travel shall be placed in every location where the direction of travel to reach the nearest exit is not apparent.

7.10.3* Sign Legend.

7.10.3.1 Signs required by 7.10.1 and 7.10.2 shall read as follows in plainly legible letters, or other appropriate wording shall be used:

EXIT

- **7.10.3.2*** Where approved by the authority having jurisdiction, pictograms shall be permitted.
- **7.10.4* Power Source.** Where emergency lighting facilities are required by the applicable provisions of Chapter 11 through Chapter 42 for individual occupancies, the signs, other than approved self-luminous signs and listed photoluminescent signs in accordance with

7.10.7.2, shall be illuminated by the emergency lighting facilities. The level of illumination of the signs shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

7.10.5 Illumination of Signs.

7.10.5.1* General. Every sign required by 7.10.1.2, 7.10.1.5, or 7.10.8.1, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

7.10.5.2*Continuous Illumination.

- **7.10.5.2.1** Every sign required to be illuminated by 7.10.6.3, 7.10.7, and 7.10.8.1 shall be continuously illuminated as required under the provisions of Section 7.8, unless otherwise provided in 7.10.5.2.2.
- **7.10.5.2.2*** Illumination for signs shall be permitted to flash on and off upon activation of the fire alarm system.

7.10.6 Externally Illuminated Signs.

7.10.6.1* Size of Signs.

7.10.6.1.1 Externally illuminated signs required by 7.10.1 and 7.10.2, other than approved existing signs, unless otherwise provided in 7.10.6.1.2, shall read EXIT or shall use other appropriate wording in plainly legible letters sized as follows: (1) For new signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19 mm) wide. (2) For existing signs, the required wording shall be permitted to be in plainly legible letters not less than 4 in. (100 mm) high. (3) The word EXIT shall be letters of a width not less than 2 in. (51 mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm). (4) Sign legend elements larger than the minimum established in 7.10.6.1.1(1) through 7.10.6.1.1(3) shall use letter widths, strokes, and spacing in proportion to their height.

7.10.6.1.2 The requirements of 7.10.6.1.1 shall not apply to marking required by 7.10.1.3 and 7.10.1.6.

7.10.6.2* Size and Location of Directional Indicator.

- **7.10.6.2.1** Directional indicators, unless otherwise provided in 7.10.6.2.2, shall comply with the following:
- (1) The directional indicator shall be located outside of the EXIT legend, not less than 3/8 in. (9.5 mm) from any letter.
- $\label{eq:continuous} (2) The directional indicator shall be of a chevron type, as shown in Figure 7.10.6.2.1.$
- (3) The directional indicator shall be identifiable as a directional indicator at a distance of 40 ft (12 m).
- (4) A directional indicator larger than the minimum established for compliance with 7.10.6.2.1(3) shall be proportionately increased in height, width, and stroke.
- (5) The directional indicator shall be located at the end of the sign for the direction indicated.



FIGURE 7.10.6.2.1 Chevron-Type Indicator.

7.10.6.2.2 The requirements of 7.10.6.2.1 shall not apply to approved existing signs.

7.10.6.3* Level of Illumination. Externally illuminated signs shall be illuminated by not less than 5 ft-candles (54 lux) at the illuminated surface and shall have a contrast ratio of not less than 0.5.

7.10.7 Internally Illuminated Signs.

- **7.10.7.1 Listing.** Internally illuminated signs shall be listed in accordance with UL 924, *Standard for Emergency Lighting and Power Equipment*, unless they meet one of the following criteria: (1) They are approved existing signs. (2) They are existing signs having the required wording in legible letters not less than 4in. (100 mm) high. (3) They are signs that are in accordance with 7.10.1.3 and 7.10.1.6.
- **7.10.7.2* Photoluminescent Signs.** The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be a reliable light source as determined by the authority having jurisdiction. The charging light source shall be of a type specified in the product markings.

7.10.8 Special Signs.

7.10.8.1 Sign Illumination.

- **7.10.8.1.1** Where required by other provisions of this *Code*, special signs shall be illuminated in accordance with 7.10.5, 7.10.6.3, and 7.10.7
- **7.10.8.1.2** Where emergency lighting facilities are required by the applicable provisions of Chapter 12 through Chapter 42, the required illumination of special signs shall additionally be provided under emergency lighting conditions.
- **7.10.8.2 Characters.** Special signs, where required by other provisions of this *Code*, shall comply with the visual character requirements of ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities*.

7.10.8.3* No Exit.

7.10.8.3.1 Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified by a sign that reads as follows:

NO EXIT

- $\textbf{7.10.8.3.2} \ The \ NO EXIT sign shall have the word \ NO in letters 2 in. (51 mm) high, with a stroke width of 3/8 in. (9.5 mm), and the word EXIT in letters 1 in. (25 mm) high, with the word EXIT below the word NO, unless such sign is an approved existing sign.$
- **7.10.8.4 Elevator Signs.** Elevators that are a part of a means of egress (*see7.2.13.1*) shall have the following signs with a minimum letter height of 5/8 in. (16 mm) posted in every elevator lobby: (1)*Signs that indicate that the elevator can be used for egress, including any restrictions on use (2)*Signs that indicate the operational status of elevators.

7.10.9 Testing and Maintenance.

- **7.10.9.1 Inspection.** Exit signs shall be visually inspected for operation of the illumination sources at intervals not to exceed 30 days or shall be periodically monitored in accordance with 7.9.3.1.3.
- **7.10.9.2 Testing.** Exit signs connected to or provided with a battery-operated emergency illumination source, where required in 7.10.4, shall be tested and maintained in accordance with 7.9.3.



NFPA 70 - National Electrical Code® 2005

ARTICLE 700 Emergency Systems

I. General

700.1 Scope

The provisions of this article apply to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination, power, or both, to required facilities when the normal electrical supply or system is interrupted.

Emergency systems are those systems legally required and classed as emergency by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination, power, or both, to designated areas and equipment in the event of failure of the normal supply or in the event of accident to elements of a system intended to supply, distribute, and control power and illumination essential for safety to human life.

FPN No. 1: For further information regarding wiring and installation of emergency systems in health care facilities, see Article 517.

FPN No. 2: For further information regarding performance and maintenance of emergency systems in health care facilities, see NFPA 99-2002, Standard for Health Care Facilities.

FPN No. 3: Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

FPN No. 4: For specification of locations where emergency lighting is considered essential to life safety, see NFPA 101®-2003, Life Safety Code®.

FPN No. 5: For further information regarding performance of emergency and standby power systems, see NFPA 110-2002, Standard for Emergency and Standby Power Systems.

700.2 Application of Other Articles

Except as modified by this article, all applicable articles of this Code shall apply.

700.3 Equipment Approval

All equipment shall be approved for use on emergency systems.

700.4 Tests and Maintenance

- (A) **Conduct or Witness Test** The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward.
- (B) **Tested Periodically** Systems shall be tested periodically on a schedule acceptable to the authority having jurisdiction to ensure the systems are maintained in proper operating condition.
- (C) **Battery Systems Maintenance** Where battery systems or unit equipments are involved, including batteries used for starting, control, or ignition in auxiliary engines, the authority having jurisdiction shall require periodic maintenance.
- (D) **Written Record** A written record shall be kept of such tests and maintenance
- (E) **Testing Under Load** Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided.

FPN: For testing and maintenance procedures of emergency power supply systems (EPSSs), see NFPA 110-2002, Standard for Emergency and Standby Power Systems.

700.8 Signs

(A) **Emergency Sources** A sign shall be placed at the service entrance equipment, indicating type and location of on-site emergency power sources.

Exception: A sign shall not be required for individual unit equipment as specified in 700.12(F).

(B) **Grounding** Where the grounded circuit conductor connected to the emergency source is connected to a grounding electrode conductor at a location remote from the emergency source, there shall be a sign at the grounding location that shall identify all emergency and normal sources connected at that location.

II. Circuit Wiring

700.9 Wiring, Emergency System

- (A) **Identification** All boxes and enclosures (including transfer switches, generators, and power panels) for emergency circuits shall be permanently marked so they will be readily identified as a component of an emergency circuit or system.
- (B) **Wiring** Wiring of two or more emergency circuits supplied from the same source shall be permitted in the same raceway, cable, box, or cabinet. Wiring from an emergency source or emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment, unless otherwise permitted in (1) through (4):
- (1)Wiring from the normal power source located in transfer equipment enclosures
- (2)Wiring supplied from two sources in exit or emergency luminaires (lighting fixtures)
- (3)Wiring from two sources in a common junction box, attached to exit or emergency luminaires (lighting fixtures)
- (4)Wiring within a common junction box attached to unit equipment, containing only the branch circuit supplying the unit equipment and the emergency circuit supplied by the unit equipment
- (C) **Wiring Design and Location** Emergency wiring circuits shall be designed and located so as to minimize the hazards that might cause failure due to flooding, fire, icing, vandalism, and other adverse conditions.
- (D) **Fire Protection** Emergency systems shall meet the additional requirements in 700.9(D)(1) and (D)(2) assembly occupancies for not less than 1000 persons or in buildings above 23 m (75 ft) in height with any of the following occupancy classes: assembly, educational, residential, detention and correctional, business, and mercantile
- (1) **Feeder-Circuit Wiring** Feeder-circuit wiring shall meet one of the following conditions:
- (1) Be installed in spaces or areas that are fully protected by an approved automatic fire suppression system
- (2) Be a listed electrical circuit protective system with a mini mum 1-hour fire rating
- (3) Be protected by a listed thermal barrier system for electrical system components
- (4) Be protected by a fire-rated assembly listed to achieve a minimum fire rating of 1 hour
- (5) Be embedded in not less than 50 mm (2 in.) of concrete

- (6) Be a cable listed to maintain circuit integrity for not less than 1 hour when installed in accordance with the listing requirements
- (2) **Feeder-Circuit Equipment** Equipment for feeder circuits (including transfer switches, transformers, and panelboards) shall be located either in spaces fully protected by approved automatic fire suppression systems (including sprinklers, carbon dioxide systems) or in spaces with a 1-hour fire resistance rating.

FPN: For the definition of occupancy classification, see Section 6.1 of NFPA 101-2003, Life Safety Code.

V. Emergency System Circuits for Lighting and Power

700.15 Loads on Emergency Branch Circuits

No appliances and no lamps, other than those specified as required for emergency use, shall be supplied by emergency lighting circuits.

700.16 Emergency Illumination

Emergency illumination shall include all required means of egress lighting, illuminated exit signs, and all other lights specified as necessary to provide required illumination.

Emergency lighting systems shall be designed and installed so that the failure of any individual lighting element, such as the burning out of a light bulb, cannot leave in total darkness any space that requires emergency illumination.

Where high-intensity discharge lighting such as high- and low-pressure sodium, mercury vapor, and metal halide is used as the sole source of normal illumination, the emergency lighting system shall be required to operate until normal illumination has been restored

Exception: Alternative means that ensure emergency lighting illumination level is maintained shall be permitted.

700.17 Circuits for Emergency Lighting

Branch circuits that supply emergency lighting shall be installed to provide service from a source complying with 700.12 when the normal supply for lighting is interrupted. Such installations shall provide either of the following:

- (1)An emergency lighting supply, independent of the general lighting supply, with provisions for automatically transferring the emergency lights upon the event of failure of the general lighting system supply
- (2) Two or more separate and complete systems with independent power supply, each system providing sufficient current for emergency lighting purposes

Unless both systems are used for regular lighting purposes and are both kept lighted, means shall be provided for automatically energizing either system upon failure of the other. Either or both systems shall be permitted to be a part of the general lighting system of the protected occupancy if circuits supplying lights for emergency illumination are installed in accordance with other sections of this article.

700.18 Circuits for Emergency Power

For branch circuits that supply equipment classed as emergency, there shall be an emergency supply source to which the load will be transferred automatically upon the failure of the normal supply.

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Drop

Tables

Voltage

The following information is provided to assist in planning layouts for emergency lighting systems. The National Electrical Code® limits voltage drop to a maximum of 5 percent of nominal. Thus, circuit runs must be of sufficient size to maintain operating voltage when remote fixtures and/or exit signs are connected to the emergency lighting equipment. The table below shows the length of wire run based on system voltage, wire gauge and total wattage on the run.

Formula: As per NEC® standards,

 $V_D = 2xLxIxR$

L = length of run in feet Where:

I = current

R = resistance of material at 75°C

 $V_{D} = voltage drop$

Example 1:

A 12-volt system using a 10-gauge wire will operate four 12-watt lamps. Total watts on the wire run is 48, length of run from table is 70 feet.

Longer Wire Runs

If loads are uniformly spaced along circuit path (equal watts, equal distances), lengths in the table can be increased by certain values.

Example 2:

Remote heads from Example 1 will be uniformly spaced. Multiplier is 1.6 for four fixtures. Maximum permissible length of wire run is 70' x 1.6 or 112'.

Number of fixtures: 2 5

Multiplier: 1.33 1.6 1.67

To determine multiplier for six or more fixtures, use the following formula:

Number of fixtures = n

Multiplier =
$$\frac{2n}{n+1}$$

6-VOLT SYSTEM									
			Wire siz	ze .					
Total		length	of wire r	un (feet,)				
watts	12	10	8	6	4				
8	67	106	169	268	350				
10	53	85	135	214	280				
12	44	70	112	178	234				
13	41	65	110	165	216				
14	38	60	96	153	200				
16	33	53	84	134	175				
18	30	47	75	120	156				
20	26	42	67	107	140				
21	25	40	64	102	134				
24	22	35	56	89	117				
25	21	32	54	86	112				
30	18	28	45	71	93				
35	15	24	39	62	80				
36	15	24	38	61	97				
40	13	21	33	53	70				
48	11	17	28	44	58				
50	10	17	27	43	56				
54	10	16	26	41	65				
60	9	14	22	36	47				
75	8	11	18	29	37				
100	6	9	14	22	28				
125	4	6	10	17	22				
150	3	5	9	14	19				
175	3	4	7	12	16				
200	2	4	6	10	14				
225	2	3	6	9	12				
250	2	3	5	8	11				
300	1	2	4	7	9				
400	1	2	3	5	7				
450	1	1	3	4	7				

		12-VOL	T SYSTEN	Л	
			Wire siz	ze	
Total		length	of wire i	run (feet))
watts	12	10	8	6	4
8	267	425	675	1,073	1,707
10	213	339	540	858	1.366
12	178	283	450	715	1,138
13	165	260	415	660	1,050
14	152	242	385	613	975
16	133	212	337	536	853
18	110	190	300	475	760
20	106	169	270	429	683
21	101	161	257	408	650
24	89	141	225	357	569
25	85	136	215	340	540
30	71	112	180	285	455
35	61	97	154	245	390
36	61	97	154	244	388
40	53	84	135	214	341
48	44	70	112	178	284
50	42	68	108	170	275
54	40	64	102	163	259
60	35	52	90	140	225
75	29	45	72	114	182
100	21	34	54	86	137
125	17	27	43	68	109
150	14	23	36	57	91
175	12	19	30	49	78
200	10	17	27	43	68
225	9	15	24	38	60
250	8	14	21	34	55
300	7	11	18	28	45
400	5	8	13	21	34
450	4	8	12	19	30

		24-VOL1	SYSTEN	1	
			Wire siz	e e	
Total		length	of wire r	un (feet,)
watts	12	10	8	6	4
8	1,068	1,698	2,701	4,293	6,830
10	854	1,358	2,161	3,435	5,464
12	712	1,132	1,801	2,862	4,553
13	660	1,040	1,668	2,640	4,200
14	610	970	1,543	2,453	3,902
16	534	849	1,350	2,146	3,415
18	440	760	1,200	1,900	3,040
20	427	679	1,080	1,717	2,732
21	407	647	1,029	1,635	2,601
24	356	566	900	1,431	2,276
25	340	544	860	1,360	2,160
30	284	448	720	1,140	1,810
35	244	388	616	980	1,560
36	242	386	614	976	1553
40	213	339	540	858	1,366
48	178	283	450	715	1,138
50	168	272	432	680	1,100
54	162	257	410	651	1,035
60	140	208	360	560	900
75	116	180	288	456	728
100	84	136	216	344	548
125	68	108	172	274	437
150	56	92	144	228	364
175	48	77	123	196	312
200	40	68	108	172	272
225	37	60	96	152	242
250	32	52	84	136	220
300	26	44	72	112	180
400	21	34	54	85	136
450	19	30	48	76	120

Outdoor Emergency Lighting Products

Traditional emergency lighting and exit signs have been primarily focused on guiding the interior occupants of a building to the nearest exit in the event of an emergency. Today, an additional emphasis is being placed on getting occupants to and along a path of safety once they are out of the building.

While the code is unclear on what constitutes a pathway and the definition of "the means to a public way", local authorities having jurisdiction over code enforcement and compliance have begun to broaden their interpretation of the Life Safety Code® to include some elements of outdoor emergency lighting.

Lithonia Lighting provides a complete list of solutions for outdoor emergency applications, including both *normally on* outdoor fixtures that switch to emergency mode when needed, and *normally off* fixtures designed only to provide emergency lighting.

Normally Off (Dedicated) Fixtures

These dedicated normally off fixtures include both stand-alone emergency lighting units and remote lamp heads. Both offer their own unique advantages.

Remote lamp heads offer advantages such as lower initial cost, lower maintenance cost and better aesthetics due to their small size. However, a battery source is required for operation.

Stand-alone emergency lighting units come equipped with a battery and can be less expensive if the application requires a small number to meet light levels.

Available

Stand-Alone Emergency Lighting Units

Stand-alone unit equipment also can be used as a power source. Damp and wet location emergency lighting products are available (see chart below).



INDX shown

Fixture		Description	Wet ¹	Damp ²	NEMA 4X³	Cold weather ⁴
AFN DB EXT		Architectural die-cast with xenon lamp		•		-18° C to 50° C
IND618-6100 IND1236-12450 IND24100-24150	6 6 6	Industrial emergency unit with krypton lamp		•		-40° C to 55° C (ULT option)
INDX618-6100 INDX1236-12125 INDX24100		Industrial NEMA 4X emergency unit with krypton lamp		•	•	-40° C to 55° C (ULT option)
ELM DL ELM2 DL		Thermoplastic emergency unit with krypton lamp		•		
ELM618-654 DL ELM1254-1272 DL		High-capacity thermoplastic with krypton lamp				

Remote Lamp Heads



AFN shown

			Available	(bid)	ilik) NOL avallable
Fixture	Description	Wet	Damp	NEMA 4X/ IP66	Cold weather
ELA AFNR DB	Architectural die-cast remote w/xenon lamp				-40° C to 60° C
ELA OMC	Outdoor mini cylinder die-cast remote w/halogen lamp	•			
ELA CL	Recessed round outdoor core remote w/halogen lamp	•	•		
ELA OSL	Recessed outdoor step light w/halogen lamp	•	•		
ELA NX	Gasketed, wet location remote w/ incandenscent or halogen lamp				
ELA WP	Weatherproof aluminum remote w/incandenscent lamp				

 $Lithonia unit equipment or exit signage\ with additional\ capacity\ can\ be used\ to power any\ remote-mounted\ lamp.\ These units\ or exits\ can\ be\ mounted\ indoors,\ while\ leads\ can\ be\ run\ to\ the\ outdoors.$

NOTES:

- 1 Direct exposure to rain or water.
- 2 Subject to moisture; fixture must be mounted under a canopy.
- $3 \quad \mathsf{NEMA\,4X}\, hose down/dust proof listing.$
- 4 Cold weather listing: -18 to 50 C(AFN); -40 to 60 C (ELA AFNR DB); or -40 to 55 C (IND/INDX).

Exit signage with additional capacity also can be used to run remote heads (e.g., Signature® with ELA LEHO or LHQM).



(hlank) Not available

Normally On Fixtures

Lithonia's building-mounted products are available with several options to provide attractive and efficient outdoor emergency egress lighting solutions.

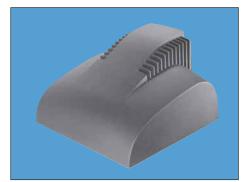
Integral emergency battery packs (ELDW) or operation with a remote battery pack (ELDWR) for use with compact fluorescent lamps, 12 volt DC lamps (DC12) powered by a remote battery

source or 120 volt AC lamps (EC) on an emergency circuit all are available today. For specific product and technical information, please refer to www.lithonia.com.

ELDW and ELDWR

ELDW – Integral battery pack that operates compact fluorescent lamps at a reduced lumen output. ELDWR - Remote battery pack ready for compact fluorescent lamps. Battery pack (by others) mounted external to the building mounted luminaire. Pilot light/test switch mounting plate and additional wiring included to connect with the external battery pack provided separately.

		Product families							
			ELDW ELDWR						
Lamp options			Gateway®	Architectural		VGRxC			
(# of lamps/	Lamp start	Initial ELDW	VGR1C, VGR2C,	sconce	Aeris™	WSR/T/Q			
/wattage)	temp. °F (°C)	lumens	VRG4C, VGR5C	WSR, WST, WSQ	ASW	ASW			
13DTT	-5° (-20°)	350							
2/13DTT	-5° (-20°)	425							
18DTT	-5° (-20°)	475							
2/18DTT	-5° (-20°)	575							
26DTT	-5° (-20°)	600							
2/26DTT	-5° (-20°)	700							
26TRT	-5° (-20°)	450							
2/26TRT	-5° (-20°)	725							
32TRT	-5° (-20°)	575							
2/32TRT	-5° (-20°)	750							
42TRT	-5° (-20°)	750							
2/42TRT	-5° (-20°)	N/A							
NOTES:		•				Available			



ASW shown

NOTES:

 $Add\,ELDW\,or\,ELDWR\,to\,product family\,catalog\,number. For additional\,information, see page 542.$

(blank) Not available

DC Options

The DC option provides an auxiliary emergency socket for either a 20- or 35-watt, 12-volt DC bayonet base MR11 lamp for use with separate external 12-volt emergency power source (provided by others).

			Product families	
	Initial		Architectural	
DC lamp option suffix ¹	lumens	Contour®	sconce	Aeris™2
(# of lamps/wattage)	(per lamp)	TWAC	WSR, WST, WSQ	ASW
DC2012 (1) 20W lamp	350			
2DC2012 (2) 20W lamps	350			
DC12 (1) 35W lamp	660			
2DC12 (2) 35W lamps	660		•	

- 1 Add DC option suffix to product family catalog number.
- $2\quad Consult factory for wattage and reflector availability.$ For additional information, see page 542.



TWAC shown



Available

Not available

(blank)

¹ Initial ELDWR lamp lumens depends on the battery pack used.

Die-Formed Steel Emergency Lighting Units

Titan



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for general/light industrial environments requiring a steel housing.

Features

True glass sealed-beam lamps in polycarbonate lamp housings (metal housings standard on Chicago units).

Housing is die-formed steel, finished with corrosion-resistant instrument tan enamel.

Maintenance-free batteries. Lead-calcium standard, nickel-cadmium optional.

Titan® Series units will power a variety of remote devices up to rated wattage of unit.

Chicago Approved — ELT24C and ELT36C meet City of Chicago requirements.

Listings

Example: ELT24 H LD

UL Listed. NOM Certified (see Options).

Ordering Information

		Options						Standar	d lamp			
											Catalog	
Type	N	R0	Н	H1212	MT	AM^2	VM^2	LD	TD	NOM	number	Watts
ELT16											N0806	8
ELT24			П								N0806	8
ELT24C											H1206	12
ELT36											N0806	8
ELT36C											H1206	12
ELT501											N1212	12
ELT125			П		П						N1212	12
ELT180											N1212	12
ELT275											N1212	12

☐ Standard

Option available (blank) Option not available

- Option descriptions Maintenance-free nickel-cadmium batteries N
- R0 Less lamp heads
- 8W halogen lamps (6W on ELT24) н
- H1212 12W/12V halogen lamps
 - Metal lamp heads MT
 - AM Ammeter²
 - Voltmeter² VM
 - Load disconnect switch TD Integral time delay (12V only)
- NOM NOM Certified

- $1\quad ELT50\,unit uses\,ELT125\,housing\,when\,ordered\,with\,VM, AM\,or\,TD\,options.$
- 2 AM and VM must be ordered together.

NOTES:

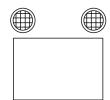
 $For additional \, lamp \, heads \, and \, remote \, fixtures, see \, pages \, 449-450.$ For spacing guidelines, see page 455. For accessories, see page 451.

Drawings for dimensional detail only. May not represent actual mechanical configuration. Dimensions are shown in **inches (millimeters)** unless otherwise noted. For details on accessories, batteries and remote fixtures, see pages 450-451.



ELT 16/24/24C/36/36C/501 Width: 11-5/8(295) 3-5/8(92) Depth:

7-7/8 (200), 14 (356) with lamps ELT 16/24/24C: 12.5 lbs.(5.7 kgs.) ELT36/36C/50: 17 lbs.(7.7 kgs.)



ELT125/180/275 Depth: 9(229)

12 (305), 18 (457) with lamps ELT 125: 43.5 lbs.(19.7 kgs.)

ELT 180: 58.5 lbs.(26.5 kgs.) ELT 275: 61.5 lbs.(27.9 kgs.)

			Electrical A	pplication Dat	a			
		AC Input		Output		Output	Watts	
Туре	Volts	Amps	Watts	Volts	1-1/2 hrs	2 hrs	3 hrs	4 hrs
ELT16	120	.167	20	6	16	12	8	6
ELITO	277	.072	20	6	16	12	8	6
ELT24	120	.167	20	6	24	24	16	12
EL124	277	.072	20	6	24	24	16	12
ELT24C	120	.167	20	6	24	24	16	12
EL124C	277	.072	20	6	24	24	16	12
ELT36	120	.167	20	6	36	36	24	18
ELISO	277	.072	20	6	36	36	24	18
ELT36C	120	.167	20	6	36	36	24	18
ELISOC	277	.072	20	6	36	36	24	18
ELT50	120	.250	30	12	50	37	25	18
ELISU	277	.108	30	12	50	37	25	18
ELT125	120	.250	30	12	125	93	67	46
ELITZS	277	.108	30	12	125	93	67	46
ELT180	120	.287	50	12	180	135	90	67
ELITOU	277	.125	50	12	180	135	90	67
ELT275	120	.287	50	12	275	206	137	103
LL12/3	277	.125	50	12	275	206	137	103



Intended Use

Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Designed for Class I, Division 2 environments.

Features

Impact-resistant, fiberglass-reinforced polyester housing. Gray with stainless steel hardware. Viewthrough window allows easy monitoring of AC indicator and optional voltmeter and ammeter.

Housing suitable for use in NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H2 & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 8W tungsten lamps for 6V units and 12W tungsten lamps for 12V units are standard.

Standard

Lamp

Head

N0806

N0806

N0806

N0806

N0806

N0806

N1212

N1212

N1212

N1212

N1212

N1212

N1212

N1212

Optional shatter-resistant shield is designed for use in food service areas.

Listings

UL Listed.

Z – Class I, Div.2



Ordering Information

Family 6V lead-calcium Z625 25 watts1 Z650 50 watts1 Z6100 100 watts^{2,3} Z6125 125 watts³ 6V nickel-cadmium Z625N 25 watts1,4 Z650N 50 watts1,4 12V lead-calcium Z1225 25 watts1 Z1250 50 watts1,2 Z12120 120 watts³ 12V nickel-cadmium Z1225N 25 watts1,4 Z1250N 50 watts1/ Z1275N 75 watts1,4 100 watts 1,4 **Z12100N** Z12125N 125 watts 1,4

Volt	tage ⁵	No. o	of lamp
(blank)	120/277	(blank)	Two
		R1	0ne
		RO	None

NOTES:

1 ½ hrs.

25

50

100

125

25

50

25

50

120

25

50

75

100

125

- In addition to UL 924, units are listed to 844, 1203 and 1604.
- 2 Includes temperature compensated charger
- $Self-diagnostics \, not \, available \, on \, Z6100, Z6125 \, and \, Z12120.$
- Nickel-cadmium units are the only units listed for Class II, Div. 2, Groups F & Gapplications.
- Special voltages available; consult factory.

Watts to 87-1/2%

of Rated Voltage

4hrs.

12

24

48

60

12

24

12

24

58

12

24

28.5

48

60

2hrs.

19

37.5

75

94

19

37.5

19

37.5

90

19

37.5

56.5

75

94

6 Option configurations may impact UL listing. Consult factory for specifics. $For matching \, remote \, lamp \, head \, or \, other \, remote \, fixture \, options, see \, page \, 449.$

8hrs.

8.5

17

21.5

8.5

8.5

20

8.5

15

17

21.5

Lam	n t	vne.
Luiii	ρι	ypc

PAR36 s	ealed-beam, 6-volt			
(blank)	8W/6V incandescent			
N1806	18W/6V incandescent			
N2506	25W/6V incandescent			
N3006	30W/6V incandescent			
H0806	8W/6V halogen			
H1206	12W/6V halogen			
PAR36 sealed-beam, 12-volt				
(hlank)	12W/12V incandescent			

171115050	aica beain / 12 Tole
(blank)	12W/12V incandescent
N1812	18W/12V incandescent
N2512	25W/12V incandescent
N3012	30W/ 12V incandescent
H0812	8W/12V halogen
H1212	12W/12V halogen

	Options ⁶
SD	Self-diagnostics ³
SDA	Self-diagnostics
	with alarm ³
VM	Voltmeter
AM	Ammeter
TD1	Time delay
	120 VAC
TD2	Time delay

Example: **Z650 N2506 SD**

277 VAC Shatter-resistant lamp head shield

Dimensions are shown in inches (millimeters) unless otherwise noted.

Electrical

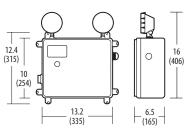
mps

Input power requirements 120 VAC – .58 amps max., 65 watts max.

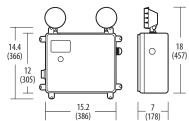
277 VAC - . 27 amps max., 68 watts max.

Shij	oping weight:
Z625	18 lbs. (8 kgs.)
Z650	18 lbs. (8 kgs.)
Z6100	27 lbs. (12 kgs.)
Z6125	29 lbs. (13 kgs.)
Z625N	16 lbs. (7 kgs.)
Z650N	18 lbs. (8 kgs.)
Z1225	29 lbs. (13 kgs.)
Z1250	29 lbs. (13 kgs.)
Z12120	22 lbs. (10 kgs.)
Z1225N	18 lbs. (8 kgs.)
Z1250N	18 lbs. (8 kgs.)
Z1275N	20 lbs. (9 kgs.)
Z12100N	29 lbs. (13 kgs.)
Z12125N	29 lbs. (13 kgs.)

25 Watt to 75 Watt Units



100 Watt to 125 Watt Units



www.lithonia.com, keyword: Z



Operation

DC

Voltage

6

12

Unit

7625

Z650

Z6100

Z6125

Z625N

Z650N

Z1225

Z1250

Z12120

Z1225N

Z1250N

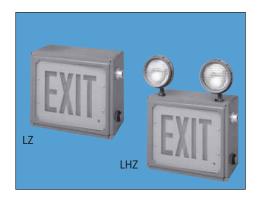
Z1275N

Z12100N

Z12125N

Hazardous Location Emergency Exit and Combo

LZ - Class I, Div.2



Intended Use

Combo and EL N exit provide 90 minutes of operation for the rated wattage upon loss of AC power. Both are designed for Class I, Division 2 and Class II, Division 2 environments.

Features

Impact-resistant, fiberglass reinforced polyester housing. Grav with stainless steel hardware and clear polycarbonate cover. Includes one-piece formed gasket and corrosion-resistant hardware. Standard internal or external mounting feet for installation flexibility.

Housing suitable for NEMA 4, 4X, 12 and 13 areas; Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB + H₂ & IIC and Class II, Division 2, Groups F & G.

Lamp heads are Class I, Div. 2 rated polycarbonate sealed beam PAR36 tungsten or halogen lamps. 6W halogen lamps standard.

Optional shatter-resistant shield is designed for use in food-service areas.

Non-diffuse LEDs provide maximum face illumination.

LED life up to 25 years based on continuous operation.

Listings

Example: LZ S 1 R 120/277 EL N SD

UL Listed.

Ordering Information

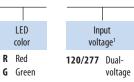














emergency Nickelcadmium

Options

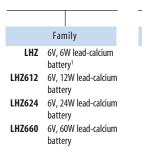
SD Self-diagnostics SDA Self-diagnostics with

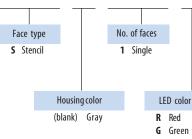
TD1 Time delay 120 VAC

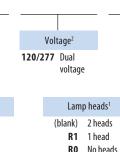
TD2 Time delay 277 VAC

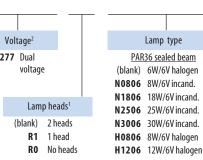
1 Other voltages and frequencies available; consult factory.

Ordering Information





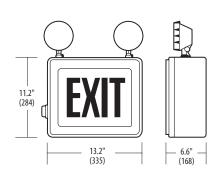




Example: LHZ S 1 R 120/277 R1 SD

Options³ Self-diagnostics Self-diagnostics with alarm TD1 Time delay 120 VAC TD2 Time delay 277 VAC Shatter-resistant lamp head shield

 $Dimensions are shown in {\it inches (millimeters)} \ unless otherwise noted.$



Input power requirements at 120V AC (red and green): AC only = 9.5W. emergency operation = 11W..90 powerfactor.

Input power requirements at 120 VAC: red=25.2W max., green=25.2W max.

- 1 LHZ has 6W total capacity. Will be shipped with one 6W lamp head unless R0 option is selected
- Other voltages and frequencies available; consult factory.
- 3 Some option configurations may impact UL listing; consult factory for details.



Intended Use

Suitable for use in Class I, Div. I, Groups C & D, Zones 0, 1, & 2, Groups IIA, IIB + H_2 & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H_2 & IIC; Class II, Div. 1, Groups E, F & G; Class I, Div. 2, Groups F & G and Class III hazardous location areas.

Features

Copper-free cast-aluminum enclosure withstands explosions generated by internal arc without propagating them into hazardous atmosphere.

Listings

UL Listed.

ZX – Class I, Div. 1

Ordering Information

Family

6Vlead-calcium

ZX685 85 watts¹
6Vnickel-cadmium

ZX614N 14 watts²

ZX628N 28 watts
12Vnickel-cadmium¹

ZX1250N 50 watts

Voltage³ (blank) **120/277**

Shipping weight: ZX614N – 63 lbs. (28 kgs.) ZX628N – 65 lbs. (29 kgs.) ZX1250N – 67 lbs. (30 kgs.) ZX685 – 69 lbs. (31 kgs.)

Example: ZX614N TD1

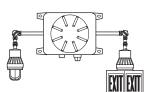
Options

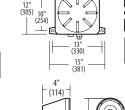
KLD Key lock two-way, battery disconnect for servicing

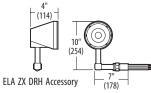
TD1 Time delay 120 VAC
TD2 Time delay 277 VAC

The sample application consists of:

- (1) **ZX614** 14 watt power pack for exclusive use with compact fluorescent fixtures.
- (2) **ELA SEA** Elbow arms.
- (2) **ELA ZX CF0706 PM** 7-watt compact fluorescent lamp fixture.
- (1) **ELA EAK** Exit accessory kit.







NOTES:

- 1 Incandescent emergency lamp operation only.
- 2 Compatible only with ELA ZX remotes using 7W compact fluorescent lamps. Will not operate incandescent lamps. Maximum remote mounting distance is 8'.
- 3 Some special voltages available; consult factory.

Accessories (Order separately)

ELA ZX DRH 12W/12V directional head

Intended Use

Suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1 & 2, Groups IIA, IIB + + + + IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + + + + + IIC; Class II, Div. 1, Groups E, F & G; Class I, Div. 2, Groups F & G and Class III hazardous location areas.

Features

Copper-free, cast-aluminum enclosure withstands pressure of explosions generated by internal arc without propagating them into hazardous atmosphere. Enclosure has corrosion-resistant, epoxy powder coat finish.

Top- and wall-mount fixtures have a universal junction box with four tapped holes for 3/4" rigid conduit (three hole plugs provided).

Listings

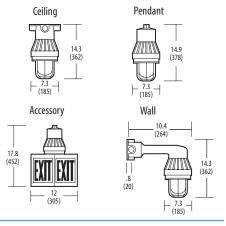
UL Listed. Meets UL 924 and 844 illumination standards.

Explosion-Proof Remotes

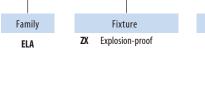
ELAZX –

Class I, Div. 1





Ordering Information



Lamp type
Emergency only, halogen
H0706 7W/6V halogen
H1006 10W/6V halogen
H1206 12W/6V halogen

H0706 7W/6V halogen
H1006 10W/6V halogen
H1206 12W/6V halogen
H1212 12W/12V halogen
AC / emergency operation
CF0706 7W compact fluorescent¹

(Order separately)

Example: ELA ZX H0706 WM

WM

PM

TM

Mounting

Wall mount

Top mount

Pendant mount

NOTES:

1 Operates only with ZX614N power pack in AC and emergency modes. Maximum mounting distance from ZX614N is 8'. See specification sheet UE-296 for details.

 $Dimensions are shown in {\it inches (millimeters)} \ unless otherwise noted.$

Shipping weight: 15 lbs. (7 kgs.)

Accessories (Order separately

ELA 3CH 3-way explosion-proof 3/4" conduit hub.

ELA SEA Swivel elbow arm for use with pendant-mount fixture to connect to ELA 3CH or ELA ZX unit.

ELA EAK Exit accessory kit (red silk-screened letters on white background).

ELA SDR Straight dome reflector.

www.lithonia.com, keywords: ZX and ELA ZX

LITHONIA EMERGENCY

448

ELA ZCD – Class II, Div. I

Remote Heads



Intended Use

ELA ZCD models suitable for use in Class II and III, Division I environments.

Features

Corrosion-resistant, cast aluminum alloy with epoxy polyester finish.

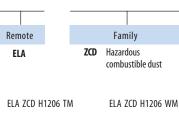
Top-mount fixture with single wall remote has universal junction box with four tapped holes for 3/4" rigid conduit (three close-up plug provided).

Twin wall remote has junction box with two tapped holes for 3/4" rigid conduit (one closeup plug provided).

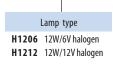
Listings

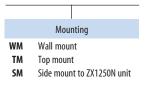
UL Listed. Meets UL 924, 844, and 1203 illumination standards. UL Listed for use in Class II, Division 1, Groups, E, F & G and Class III areas.

Ordering Information





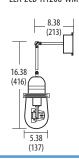


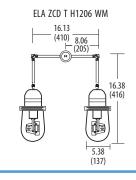


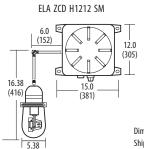


Example: ELA ZCD H1212 WM









NOTES: 1 Only available with wall mount.

Dimensions are shown in inches (millimeters) unless otherwise noted. Shipping weight: 18 lbs. (8 kgs.)

Remote Fixtures

Open Cone¹



ELA OC NO806 (6V/8W) **ELA OC HO806** (6V/8W) **ELA OC N1212** (12V/12W) 3" MR16 LV3 Series ELA LV3 OC H1006 **ELA LV3 OC H1012**

L=11-3/8(289), W=8-3/8(213), H=8-1/2(216)

Stepped Baffle



6" PAR363 **ELA SB N0806** (6V/8W) ELA SB H0806 (6V/8W)3 **ELA OC N1212** (12V/12W) 3" MR16 LV3 Series ELA LV3 SB H1006 ELA LV3 SB H1012

L=11-3/8(289), W=8-3/8(213), H=8-1/2(216)

Eveball



6" PAR363 **ELA EB N0806** (6V/8W) **ELA EB N1212** (12V/12W) **ELA EB H1212** (12V/12W) 3" MR16 LV3 Series ELA LV3 EB H10063 ELA LV3 EB H1012

L=11-3/8(289),W=8-3/8(213),H=5-1/2(144)

Recessed Rectangle



ELA RR S8 or S11 DC bayonet base lamp up to 25W (not included)

L=8-3/16(208), W=4-1/2(115), D=3-3/8(86)

Square Series



Outdoor Step Light

ELA SOR6V (6V/10W) **ELA SQR12V** (12V/12W)

NOTE: Order ELA FRK for fullyrecessed mounting or ELA SRK for semi-recessed mounting

12W halogen bi-pin lamp

ELA OSL

(not included)

Surface Gimbal



ELA SG N1212 (12V/12W) **ELA SG N1812** (12V/18W) **ELA SG N2512** (12V/25W) **ELA SG H0812** (12V/8W) **ELA SG H1212** (12V/12W)

Diameter=7-7/8(200),depth=5(127)

Recessed Gimbal



ELA RG N1212 (12V/12W) **ELA RG N1812** (12V/18W) ELA RG N2512 (12V/25W) **ELA RG H0812** (12V/8W) ELA RG H1212 (12V/12W)



ELA WP PAR46 12V/35W

L=10-5/16(262),W=10-5/16(262),H=3-7/16(87)



ELA OMC DDB ELA OMC DNA ELA OMC H1006 (6V/10) H2006 (6V/20W) H1012 (12V/10W) H2012 (12V/20W)

Diameter=8-1/4(209), depth=5-1/4(133) Round Outdoor Step Light



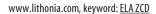
MR16 ELA CL H1006 (6V/10W) H2006 (6V/20W) H1012 (12V/10W) H2012 (12V/10W)

Diameter=6-3/8(162),depth=8-1/2(216)

- Rough-in section same as Lithonia downlighting LV Series, less transformer.
- Twin version available.
- Other lamps available.

Dimensions are shown in inches (millimeters) unless otherwise noted.





Ordering Information – Lamp heads on this page can be ordered as separate fixtures, or as individual or twin remote heads with a mounting plate. To Order Remotes: Order as separate line items.

Ordering Information

Emergency lighting accessory ELA

Color (blank) Standard color В Black W White

ITN

Instrument tan (Titan® Series match). Available on standard PAR36 and NX head only

Number of lamps (blank) Single

T Twin

Standard PAR36 (blank) MR24 Multi-faceted reflector CDS Compact designer square SSB Square PAR36 IND Indura® NX Sealed and gasketed PAR36

MT

EXAMPLE: ELA IND H2012

Lamp type

Select from lamp compatibility chart on page 450.

(For Indura® sealed beam lamps add suffix S to lamp nomenclature. Example: H35I2S)

Standard PAR36



(blank) 4-3/4" (121) single head, Width: 13" (330) twin heads Height: 7-3/4"(197)

Depth: 5-1/16"(129) Standard color: Deserttan

Multi-Faceted Reflector



MR24 Width: 4-5/8" (117) single head, 6-5/8" (168) twin heads Height: 6-5/8" (168) single head, 4-1/2" (114) twin heads

Depth: 2-1/2"(63) White Quantum® match Standard color:

Compact Designer Square

Metal PAR36

Lamp head style

Hazardous PAR36 (Class I, Division II)



CDS Width: 3-7/8" (98) single head, 10-5/8" (270) twin heads

Height: 4-1/4"(108) Depth: 4-1/8"(107) Standard color: lvory white

Square PAR36



4-3/4" (121) single head, Width: 10-1/2" (267) twin heads

Height: 5"(127) Depth: 4-1/2"(115) Standard color: White

Indura® Remote



Width: 5-7/8" (149) single head, 7-1/8" (181) twin heads

> 5-1/8"(130) 5-3/8"(137)

Height:

Depth: Standard color: Gray head and mounting

plate, blue lamp housing

Sealed & Gasketed PAR36



Width: 4-3/4" (121) single head, 13" (330) twin heads 7-3/4"(197) Height:

Depth: 5-1/16"(129) Standard color: Gray

Metal PAR36



Width: 4-5/8" (118) single

head, 10-1/2" (267) twin heads 5-1/8"(130) Height: Depth: 6-1/2:(165) Standard finish Chrome

White

Optional finish:

Hazardous PAR36



4-3/4" (121) single head, Width: 13" (330) twin heads

Height: 7-3/4"(197) Depth: 5-1/16"(129) Gray Z Series match Standard color

Mounting Plate Dimensions for MT: Single Head = 2-3/4 (70) W X 4-1/2 (115) H Two Head = 4-9/16 (116) W X 4-1/2 (115) H

Mounting Plate Dimensions for IND: 5-1/8 (130) W X 4 -11/16(119) H

Mounting Plate for MR24: 6-7/8 (175) W X 4-5/8 (117) H

Mounting Plate for All Others: 3-1/8 (79) W X 5 (127) H

PSG9

NOTES:

For photometric information, visit our website at www.lithonia.com

 $Consult factory for additional \ lamp \ availability.$

Dimensions are shown in inches (millimeters) unless otherwise noted.



Composite Lamps

		6 Volt									12 Volt						24 Volt			
	li	ncandesce	nt			Halogen			Kry	pton	1	ncandesce	nt	Halogen			Krypton	Incand	descent	Halogen
Lamp Type	N0606	N0806	N0906	H0606	H0806	H1006	H1206	H2006	K0606	K0906	N0912	N1212	N1812	H0812	H1212	H2012	K0912	N0924	N1824	H2024
Wattage	6W	8W	9W	6W	8W		12W	20W	6W	9W	9W	12W		8W	12W	20W	9W	9W	18W	20W
MR24																				
CDS											•									
IND																				

Available

(blank) Not available

Sealed-Beam Lamps

		6 Volt							12 Volt								24 Volt	
		Incan	descent			Halog	gen				Incandescer	nt			Hal	logen		Incand.
Lamp type	N0806	N1206	N1806	N2506	H0606	H0806	H1206	H2006	N1212	N1812	N2512	N3512	N5012	H0812	H1212	H3512	H5012	N5024
Wattage	8W	12W	18W	25W	6W	8W	12W		12W	18W	25W	35W	50W	8W	12W	35W	50W	50W
SSB	-	-							-	-	•							
IND																		•
NX	•	•							-	•	-	•	•					
Standard PAR36	•	•							•	•	•							
MT																		

Available
(blank) Not available

Wireguard Compatibility

UL Listed Products

Catalog Number	ELT 50¹ (w/options), 125¹, 180¹, 250¹, 275¹, INDX	Single remote heads	Twin remote heads	ELT 50 (w/option), 125, 180, 250, 275	IND (18-100 Watts)	ELM618, ELM627, ELM654, ELM1254, ELM1272	ТНОМ	ELM; ELM2; ELT 16, 24, 36, 50; ELSQ	IND (150-450 Watts)	Dimensions
Units										
ELA WGHQM										28W x 15H x 8D
ELA WGLG										21W x 20H x 18D
ELA WGLT										22 ¹⁵ / ₁₆ W x 24 ³ / ₈ H x 12 ³ / ₈ D
ELA WGRH										1115/16W x 123/8H x 93/8D
ELA WGST										15W x 15H x 6D
ELA WG2										15 ¹ / ₈ W x 14 ³ / ₈ H x 8 ⁵ / ₈ D
ELA WG2M										20 ¹ / ₄ W x 15H x 12D
ELA WG4/8										22 ¹ / ₈ W x 22 ¹⁵ / ₁₆ H x 10D
						Exits				
ELA WGEX		Back me	ounted ex	its						13 ⁵ / ₈ W x 13 ⁵ / ₈ H x 4 ³ / ₄ D
ELA WGEXT			ounted exi							14W x 11H x 6 ³ / ₄ D ²
ELA WGEXE		End mo	ounted exi	ts						15W x 11H x 4 ³ / ₄ D ²

NOTES:

1 Without heads.

 $2\quad Measurement at smallest point of guard.$

Available

(blank) Not available



Vandal Shield ELA VS2 **ELA VS**



1/8," thick, (ELAVS2) high-impact or 3/16" thick (ELAVS) transparent polycarbonate shield. Fits all Lithonia Quantum ELM and ELM2 (ELA VS), and ELM618, ELM627, ELM654, ELM1254, ELM1272 (ELA VS2) units. 10"H x 22" W x 9-3/4" D (ELA VS2); 81/2"H x 15" W x 43/4" D (ELA

Low Voltage Relay **ELA LVR**



Converts any incandescent low voltage (12V) downlight (75W maximum) to an emergency downlight when remoted from a 12V Lithonia emergency lighting unit (ELT125, etc.).

Remote Test Switch Less Pilot Light ELA RTLP



Provides remote testing capability to all Lithonia Lighting unit equipment, exit signs, fluorescent battery packs and $emergency\,down lights.\,Mounts$ on standard J-box, ceiling or wall.

Mounting Shelves

ELA MS4/8¹

ELM4, ELM10, ELT125, ELT180, ELT275 ELA MST²

ELAMSTS² ELT16, ELT24, ELT24C, ELT36, ELT36C, ELT50

Indura® Accessories

Pendant mount kit for Indura® small housing ELA IND PM

ELA IND CM1 Ceiling mount kit for IND618

ELA IND CM2 Ceiling mount kit for IND654, IND1236 and IND1254

ELA IND CM3 Ceiling mount kit for IND6100

ELA INDX CM2 Ceiling mount kit for INDX654, INDX1236 and INDX1254 **ELA IND R3** Prepack kit to field install third head on Indura® unit

ELA RTT Remote transmitter **ELA BS** Banding strip

ELA IND RHB Remote head bracket for surface-mounted j-boxes







Replacement Batteries for Emergency Lighting Units

Available

(blank) Not available

	ELB 06042	ELB 0607	ELB 0612A	ELB 0614	ELB 1228	ELB 1255	ELB 0604N
	lead-calcium	lead-calcium	lead-calcium	lead-calcium	lead-calcium	lead-calcium	nickel-cadmium
	L: 2-3/4 (70)	L: 4 (102)	L: 6 (152)	L: 4-1/4 (108)	L: 7-7/8 (198)	L: 10-1/4 (259)	L: 3-7/8 (98)
	W: 1-7/8 (48)	W: 1-1/2 (38)	W: 2 (51)	W: 2-3/4 (70)	W: 5-1/4 (133)	W: 6-3/4 (171)	W: 2-3/8 (60)
Type	H: 4-1/8 (102)	H: 6 (152)	D: 4 (102)	H: 5-1/2 (140)	H: 7-3/8 (187)	D: 8-3/4 (222)	H: 2-3/8 (60)
ELM/ELM2							
ELM618							
ELM627							
ELM654			3				
ELM1254			3				
ELM1272			3				
ELSQ/ELSQM							
ELSQM N							
ELT16							
ELT16 N							
ELT36/36C							
ELT50				3			
ELT125							
ELT275							
ELR2							
ELR2 N							
ELR4				3			

NOTES:

- 1 Standard color is desert tan. To order white, add **W** to catalog number (Example: ELA W MS4/8).
- 2 Standard instrument tan.
- 3 Uses two batteries.
- $Replacement batteries are for Indura ^{\circledR} Series 12 units. Consult factory for$ replacement batteries for previous series.

Indura®/Indura® 4x Replacement Batteries4

ELCC/ELCCT AFN

Indura®/Indura® 4x Replacer	nent Batterie	S ⁴							Available	(blank) Not available
	ELB 0612A	ELB 0636	ELB1224B	ELB 1208AH	ELB 1228	ELB1228AH	ELB 1250	ELB 1255	ELB 12100	ELB 2412A	ELB0607NFH
	L: 4-1/4 (108)	L: 5-7/8 (150)	L: 3-7/8	L: 5-7/8 (150)	L: 7-7/8 (198)	L: 6-3/4 (173)	L: 8-5/8 (221)	L: 10-7/32 (262)	L: 12 (307)	L: 5-7/8 (150)	L: 6-3/4 (171)
	W: 2-3/4 (70)	W: 6 (154)	W: 6 (154)	W: 8 (205)	W: 5-1/4 (133)	W: 6-1/2 (166)	W: 5-5/16 (136)	W: 6-11/16 (171)	W: 6-11/16 (171)	W: 8 (205)	W: 1-1/3 (34)
Туре	H: 5-1/2 (140)	H: 3-5/8 (93)	H: 7-3/4 (198)	H: 3-5/8 (93)	H: 7-3/8 (187)	H: 7-3/4 (198)	H: 8-13/16 (226)	H: 9-21/32 (247)	H: 9-3/4 (250)	H: 3-5/8 (93)	H: 3-3/4 (95)
IND618/INDX618											
IND654/INDX654											
IND6100/INDX6100	3										
IND1236/INDX1236											
IND1236ULT/INDX1236ULT											
IND1254/INDX1254	3										
IND1254ULT/INDX1254ULT											
IND12100/INDX12100											
IND12100ULT/INDX12100ULT											
IND12150/INDX12150					3						
IND12300/INDX12300											
IND12450/INDX12450									3		
IND24100/INDX24100											
IND24450/INDX24450							3				



EAC IST EAC ISS



Intended Use

Automatic standby AC power systems for incandescent and fluorescent emergency lighting loads that provide full light output for 90 minutes of operation.

Features

Microprocessor-controlled PWM inverter with IGBT technology allows for universal compatibility.

RS232 interface option allows communication with system from remote computer. Low voltage disconnect, short circuit protection, current limiting and brown-out protection.

EAC IST:

One compact self-contained cabinet.

12-hour battery recharge. Input circuit breaker. Normally on and off output circuit breakers.

20-character display with touch pad (4x4) controls, functions and data logging.

Programmable self-diagnostic testing for 5 minutes monthly and 90 minutes annually is standard.

20 millisecond transfer time.

EAC ISS:

Stackable, modular cabinet design enabling versatile installation.

Systems 4KVA and below are self-contained. Larger systems require external, stackable battery cabinets.

Standard digital meter panel displays input/output voltage, battery voltage and output current.

24-hour battery recharge standard.

50 millisecond transfer time.

Listings

UL 924 Listed – 90 minutes of emergency operation.

Ordering Information



NOTES:







Voltage
Input/Output
120/120
277/277

(blank)
Battery
2HR

2HR 2-hour run time
4HR 4-hour run time
Input/Output

None

OTA Output trip alarm

Example: EAC LC IST 1350 120/120 OTA

Example: EAC LC ISS 1500 120/120 OCB

	Options	
	Miscellaneo	us
	Modem	External modem for RS232
	3WS	External 3-way switch
1	RMP	Remote meter panel ²
	FSP	Factory start-up program
m	RS232	Diagnostic interface
	DFC	Form "C" contact

DBR Dimmer bypass relay

Factory start-up

Remote panel meter

Maintenance bypass switch

Diagnostic interface

Form "C" contact

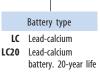
program

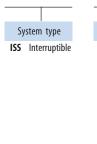
Ordering Information

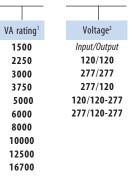
1 Only available on the 750 VA

2 Not available with the RS232.









	Options	i
(blank)	None	Miscellaneo
<u>Battery</u>		FSP
12HR	12-hour battery recharge	
<u>Electronic</u>		RMP
TD	Time delay (15 minute)	MBYP
Input/Outp	<u>ut</u>	
OCB	Output circuit breaker	RS232
	(specify quantity and amps) ³	DFC
OTA	Output trip alarm	

NOTES:

- 1 Systems 5000VA (5KVA) or larger require external battery cabinets.
- 2 Consult factory for other voltages
- 3 Standard 20-amp, *normally on* unless otherwise specified.

An off-line AC power system for the emergency operation of HID, incandescent and fluorescent emergency lighting loads that provides full light output for 90 minutes of operation.

Features

Microprocessor-controlled PWM inverter with IGBT technology allows for universal compatibility.

Sinusoidal output waveform has <3% THD.

Off-line uninterruptable system has 2-millisecond transfer time.

Standard circuit protection: low voltage disconnect, short circuit protection, current limiting, fused battery protection, brownout protection, input circuit breaker.

Standard RS232 diagnostic interface.

Listings

UL 924 Listed – 90 minutes of emergency operation.

EAC FT output ratings: 1,500 VA to 16,700 VA. Single phase system.

EAC 3FT output ratings: 4,800 VA to 50,000 VA. Three-phase system.

EAC FT EAC 3FT



Example: EAC LC 3FT 6000 120-208/120-208 FSP

Ordering Information

Family Battery type

EAC Emergency AC LC Lead-calcium power system

System type

FT Fast transfer

3-phase fast transfer

VA rating

1500¹
2250¹
3000¹
3750¹
4800
6000
8000
110000
22500
16700
24000²
33000²
40000²
50000²

Voltage³
Input/Output
120/120¹
277/277¹
277/120¹
120/120-277¹
277/120-277¹
277-208/120-208²
277-480/277-480²

	Options
(blank)	None
<u>Battery</u>	
12HR	12-hour battery recharge
<u>Supervisory</u>	
RMP	Remote meter panel
MBYP	Maintenance bypass switch4
XMBYP	External maintenance bypass switch
Input/output	
OCB	Output circuit breaker (specify
	quantity and amps)5
OTA	Output trip alarm
Miscellaneous	
FSP	Factory start-up program
DFC	Form "C" contacts
NOFF	Normally OFF output circuit ⁶

MODEM External modem for RS232

NOTES:

- 1 Available on FT only.
- Available on 3FT only.
- 3 Consult factory for other voltage requirements. Special voltages may affect the weight, size and number of cabinets.
- 4 Standard on 3FT.
- 5 Standard 20-amp *normally on* unless otherwise specified.
- 6 Normally off load cannot exceed 20% of total VA rating with any combination of HID loads.

LITHONIA LIGHTING®



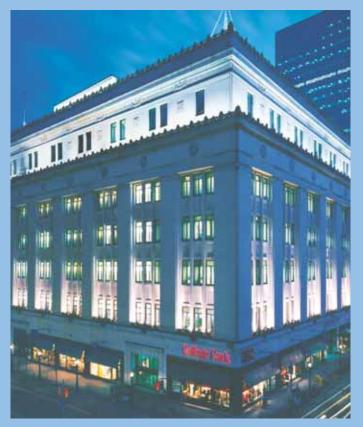
Outdoor

Lithonia Lighting outdoor products are unmatched in the industry for distinctive designs, mechanical integrity and high-performance optical systems.

These high-quality products are characterized by superior-grade materials for reliability, highly engineered designs for performance and skilled craftsmanship for aesthetic styling.

With a wide selection of luminaires, poles, mounting options and finishes, Lithonia Lighting is your best choice for every architectural and general purpose lighting application.





LITHONIA OUTDOOR

CONTENTS Area Lighting 470 Roadway Lighting 486 476 496 **Security Lighting** Site Lighting 499 **Building-Mounted Lighting** 504 **Parking Garage Lighting** 518 504 **Canopy Lighting** 521 **Floodlighting** 522 **Motion Sensors** 536 **Sportslighting** 538 **Options & Accessories** 540



552

Floodlighting Design Guidelines 550

Poles

536

522



Graceful curvature, advanced optics and uncompromised construction.

Whether it's a parking area, a building entrance or full campus area lighting, the Aeris™ Architectural Outdoor Family delivers a complete lighting solution.

Aeris™ Architectural Area & Roadway Lighting

Add a touch of style to roadway and area lighting. AS1 and AS2 low-profile illumination solutions are designed to provide superior and precise lighting performance.

Located on page 472.



Bring the unique architectural element of the AST decorative extension to your AS area application environment.

Located on page 473.





Aeris™ Building Mounted

Combine stylish form with the function of full cutoff roadway and specialty distributions with the field aiming capabilities of ASW architectural building mounted illumination.

Located on page 504.



Aeris™ Bollard

Illuminate pathways with aesthetically pleasing bollards – the ASB Series offers a variety of decorative tops and lighting distribution to choose from.

Located on page 499.



Aeris™ Floodlight

Provide sophisticated floodlight designs with the ASF – quality engineered optics in two housing styles deliver flexible performance in both in low and high wattage.

Located on page 522.





Area Aeris™



Features

rounding areas.

Voltage

120

2087

2407

277

Intended Use

For streets, walkways, parking lots and sur-

Housing - Die-cast single-piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

Door Assembly – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring-loaded die-cast latches.

Optics - Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

Installation - Heavy-duty easy-mount block attaches to pole or wall to provide ease of installation as well as ensured alignment and leveling.

Electrical - 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. Compact fluorescent uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish. Other architectural colors available.

Socket - Porcelain, medium-base socket for AS1, mogul-base socket for AS2, with copper alloy nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations in lens-down orientation (damp location listed in lens-up orientation). Meets IESNA full cutoff criteria. U.S. patent no. D447, 590. Canadian patent no. 94324.

Ordering Information

Desig	ınation
High press	sure sodium
AS1	35S ¹
AS1	50S ²
AS1	70S
AS1	1005
AS1	1505
AS2	2005
AS2	2505
AS2	4005
Meta	l halide
	50M ³
AS1	70M ³
AS1	100M
AS1	150M ⁴
	175M
	200M ⁵
	250M ⁴
	320M ⁵
	350M ⁵
	400M ⁴
	fluorescent
AS1	2/32TRT ⁶

AS1 42TRT

AS1 57TRT

AS1 2/42TRT⁶

70TRT

SR4V	throw, sharp cutoff V Segmented Type IV wide, forward throw (size 2 only) TB8
SR5	S Segmented Type V square MVOLT ⁹
NO	TES:
1	120V only.
2	120V and 277V only.
3	Not available with 480V.
4	May be ordered with SCWA.
5	Must be ordered with SCWA.
6	Available in SR3 only.
7	Consult factory for availability in Canada.
8	Optional multi-tap ballast (120V, 208V, 240V, 277V). I Canada 120V, 277V, 347V; ships as 120V/347V.
9	Compact fluorescent only, 120V-277V.
10	Multi-voltelectronicballast(forTRTandDTTlamps)capable

of operating on any line voltage between 120V and 277V.

12 SF, DF or QRS options cannot be ordered together.

11 Mounting block standard.

13 Consult factory for availability.

Distribution

SR2 Segmented Type II roadway

SR4SC Segmented Type IV forward

SR3 Segmented Type III

asymmetric

	Mounting ¹¹
Included	
SPA	Square pole mounting block
RPA	Round pole mounting block
WBA	Wall bracket (up or down)
Shipped s	<u>eparately</u>
ASKMA1	Mast arm adapter (size 1)
ASKMA2	Mast arm adapter (size 2)
DSAS1	Decorative straight arm, square pole only (size 1)
DSAS1R	Decorative straight arm, round pole only (size 1)
DSAS2	Decorative straight arm, square pole only (size 2)
DSAS2R	Decorative straight arm, round pole only (size 2)
DCAS1	Decorative curved arm, square pole only (size 1)
DCAS1R	*
DCAS2	Decorative curved arm, square pole only (size 2)
DCAS2R	* * * * * * * * * * * * * * * * * * * *

Example:	AS1	150S	SR2	120	SPA	SF	LPI

Options/accessories

Installed

LPI Lamp included

L/LP Less lamp

SF Single fuse, 120V, 277V, 347V (n/a TB and MVOLT)¹²

DF Double fuse, 208V, 240V, 480V (n/a TB and MVOLT)¹²

PER NEMA twist-lock receptacle only (no photocontrol)

QRS Quartz restrike system (100W max. AS1, 250W max. AS2, lamp not included) 12

CR Enhanced corrosion resistance

HS House-side shield (n/a SR4SC or SR5S)

EC Emergency circuit 13

TP Tamperproof

SCWA Super CWA pulse start ballast (n/a HPS, DTT, TRT, 50M, 70M or 100M)

CSA CSA Certified

NOM NOM Certified¹³

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V, 208V, 240V)

PE3 NEMA twist-lock PE (347V)

PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

SC Shorting cap

AS1VG Vandal guard

AS2VG Vandal guard

For tenon slipfitters, see page 540.

Dimensions are shown in inches (centimeters) unless otherwise noted

	<u>AS1</u>	<u>AS2</u>
EPA:	.7 ft²	1.2ft
Length:	21.38(54.5)	28(71.0)
Width:	12.5(31.7)	16.25 (41.9)
Height:	6.28(15.9)	8.25(21.0)
Weight:	22 lbs (10 kg)	45 lbs (20.4 kg)

Drilling Patterns:

(see pole ordering, pg. 552) DM19AS 1at 90°

DM28AS 2at 180° DM29AS 2at 90° DM39AS 3 at 90°

DM49AS 4at90° DM32AS 3 at 120° (round poles only)



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

May not meet with HS option.



www.lithonia.com, keyword: AS

For streets, walkways, parking lots and surrounding areas.

Features

Housing - Die-cast single-piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

Door Assembly – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring-loaded die-cast latches.

Optics - Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

Electrical - 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. Com-

pact fluorescent uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish. Other architectural colors available.

Socket - Porcelain, medium-base socket for AST1, mogul-base socket for AST2, with copper alloy nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations in lens-down orientation (damp location listed in lens-up orientation). Meets IESNA full cutoff criteria. U.S. patent no. D447, 590. Canadian patent no. 94324.

Suspend Aeris™



Example: AST1 150S SR2 120 SPA SF LPI

Ordering Information

D	esignation		Distribution	Voltage		Mou	nting ^{11,12}	
High p	ressure sodium	SR2	Segmented Type II roadway	120	<u>Included</u>			
AST	T1 35S ¹	SR3	Segmented Type III	208 ⁷	SPA	Square po	le mounting block	
AST	T1 50S ²		asymmetric	240 ⁷	RPA	Round pol	e mounting block	
AST	T1 70S	SR4SC	Segmented Type IV forward	277	WBA	Wall brack	cet (up or down)	
AST	T1 100S		throw, sharp cutoff	347			•	
AST	T1 150S	SR4W	Segmented Type IV wide,	480 ⁷				
AST	T2 200S		forward throw (size 2 only)	TB ⁸				
AST	T2 250S	SR5S	Segmented Type V square	MVOLT ^{9,10}				
AST	T2 400S							
M	etal halide							
AST	T1 50M ³	NOTES:				Drilling patt	arnc:	
AST	Γ1 70M³	1 120Va	nnly				<u>erns.</u> dering, pg. 552)	
AST	Γ1 100M		and 277V only.			DM19AST1	1at90°	
AST	Γ1 150M ⁴		railable with 480V.			DM19AST2	1at90°	
AST	T1 175M		e ordered with SCWA.			DM28AST1	2at 180°	
AST	T2 200M ⁵	,	pe ordered with SCWA.			DM28AST2	2at 180°	
AST	T2 250M ⁴	6 Availa	ble in SR3 only.			DM29AST1	2at90°	
AST	T2 320M ⁵	7 Consu	It factory for availability in Canada.			DM29AST2	2at90°	
AST	T2 350M ⁵	8 Option	nal multi-tap ballast (120V, 208V, 240V, 2	77V). In Canada 120V, 277V, 34	17V;	DM39AST1	3at90°	
AST	T2 400M ⁴	ships	as 120V/347V.			DM39AST2	3 at 90°	
Compa	ct fluorescent		act fluorescent only, 120V-277V.			DM49AST1	4at90°	
ASI	T1 2/32TRT ⁶		volt electronic ballast (for TRT and DTT la	mps) capable of operating on	any	DM49AST2	4at90°	
AST	T1 42TRT		oltage between 120V and 277V.			DM32AST1	3 at 120° (round poles only)
AST	T1 2/42TRT ⁶		ting block standard.	. I. ACTO		DM32AST2	3 at 120° (round poles only)
AST	T1 57TRT		ounts 9.64" lower than specified pole he specified height.	eight. AS12 mounts 13.89" lo	wer			
ASI			or QRS options cannot be ordered toge:	ther				
		ט אר,ער	or due obtions caminot he or deten to de	uici.				

Dimensions are shown in inches (centimeters) unless otherwise noted.

AST1 AST2 EPA: .7 ft² 1.2ft² Length: 21.38(54.5) 28(71.0) 12.5(31.7) 16.25(41.9) Width: Height: 6.28(15.9) 8.25 (21.0) 22 lbs (10 kg) 45 lbs (20.4 kg) Weight:

www.lithonia.com, keyword: AST



Installed

LPI Lampincluded

L/LP Less lamp

SF Single fuse, 120V, 277V, 347V (n/a TB and MVOLT)¹³

DF Double fuse, 208V, 240V, 480V (n/a TB and MVOLT)¹³ PER NEMA twist-lock receptacle only (no photocontrol)

QRS Quartz restrike system (100W max. AS1, 250W max.

AS2, lamp not included) 13

CR Enhanced corrosion resistance

HS House-side shield (n/a SR4SC or SR5S)

EC Emergency circuit¹⁴

TP Tamperproof

SCWA Super CWA pulse start ballast (n/a HPS, DTT, TRT, 50M, 70M or 100M)

CSA CSA Certified

NOM NOM Certified 14

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V, 208V, 240V)

PE3 NEMA twist-lock PE (347V)

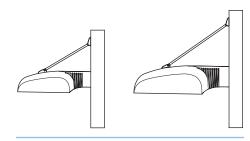
PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

SC Shorting cap

AS1VG Vandal guard

AS2VG Vandal guard







14 Consult factory for availability.

Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

May not meet with HS option.

KSE

Symmetra™



Ordering Information

Designation High pressure sodium **70S** KSE1 KSE1 1005 KSE1 150S KSF2 2505 KSE2 **400S** Metal halide 100M KSE1 150M KSE1 175M 200M² KSF1 KSE2 250M¹ 320M^{2,3} KSE2 350M^{2,3} KSE2 400M^{1,3} KSF2

Distribution

R2 Type II roadway R3 Type III asymmetric R4SC Type IV forward throw, sharp cutoff R4W Type IV wide, forward throw (size 2 only)

R5S Type V square (size 2 only)

Voltage 120 208⁴

240⁴ 277 347 480⁴ TB⁵

1 May be ordered with SCWA.

2 Must be ordered with SCWA

Consult factory for availability in Canada.

Use 9" arm when mounting two luminaires at 90°.

3 Mustuse ED28 lamp.

ships as 120V/347V.

7 Includes mounting arm.

Included

SP04 4" square pole arm (std.)⁶ SP09 9" square pole arm RP04 4" round pole arm⁶ RP09 9" round pole arm WB04 4" wall bracket WB09 9" wall bracket MB Mounting bracket (KSE1 only)

Shipped separately

KMA Mast arm adapter KTMB Twin mounting bar DA12P Degree arm (pole)

Mounting

DA12WB Degree arm (wall)

Intended Use For car lots, street lighting or parking areas. **Features**

Housing - Rugged, heavy-gauge, extruded aluminum housing. Square shape, seam-welded and internally sealed for weathertight integrity. Standard finish is dark bronze corrosion-resistant polyester powder (DDB). Architectural Class 1 anodize finish and other architectural colors available.

Optics - Anodized, segmented reflectors for uniformity and control. Reflectors are tool-less, rotatable and interchangeable. Five cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff), R4W (wide, forward throw) and R5S (symmetric).

Door Frame - Natural anodized, extruded aluminum door frame sealed to housing by silicone closed-cell gasket and secured with (3) guarterturn closing screws. Can be hinged from any of the four sides.

Lens - .125"-thick, impact-resistant tempered glass.

Mounting - Extruded 4" aluminum arm for square pole mounting, shipped in fixture carton as standard. Optional mountings available.

Electrical - High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power tray and positive-locking disconnect plug.

Socket - Medium-base socket for 150W MH and below. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.

Installed

LPI Lamp included

L/LP Less lamp

SF Single fuse, 120V, 277V, 347V (n/a TB)

Example: KSE1 150S R2 120 SP09 PER LPI

DF Double fuse, 208V, 240V, 480V (n/a TB)

PER NEMA twist-lock receptacle only (no photocontrol)

QRS Quartz restrike system (100W max. in KSE1, 150 W max. in KSE2, 120V lamp not included).

Options/accessories

CR Enhanced corrosion resistance

EC Emergency circuit

SCWA Super CWA pulse start ballast (n/a HPS or 100M, 175M)

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V-240V)

PE3 NEMA twist-lock PE (347V)

PE4 NFMA twist-lock PF (480V)

PE7 NEMA twist-lock PE (277V)

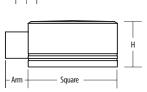
SC Shorting cap for PER option

KSE1HS House-side shield (R2, R3 only) KSE2HS House-side shield (R2, R3 only)

KSE1VG Vandal guard

KSE2VG Vandal guard

For tenon slipfitters, see page 540.



Dimensions are shown in inches (centimeters) unless otherwise noted.

Optional multi-tap ballast (120V. 208V. 240V. 277V). In Canada 120V. 277V. 347V:

KSE1 KSE2 FPA-1.3 ft2 (.12 m2) 1.9ft2 (.18 m2) Square: 15-11/16(39.8) 19(48.3) 10-15/16(27.8) 8-3/4(22.2) Heiaht: Max. weight: 26.6lbs (12.1kg) 39.9 lbs (18.1 kg)

www.lithonia.com, keyword: KSE



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

For car lots, street lighting or parking areas.

Features

Housing - Rugged, heavy-gauge, aluminum rectilinear housing. All seams continuously welded for weathertight integrity. Dark bronze corrosion-resistant polyester powder finish (DDB) standard. Other architectural colors available.

Door Frame - Natural anodized, extruded aluminum frame with mitered corners, retained with two hinge pins and secured with one quarterturn, quick-release fastener. Integrally designed, extruded silicone gasket provides weatherproof seal between housing and frame.

Lens - .125" thick, impact-resistant tempered glass with thermally applied, silk-screened power door shield.

Mounting - Extruded 4" (KSF1, KSF2) or 12" (KSF3) aluminum arm for square pole mounting shipped in fixture carton as standard. Optional mountings available.

Optics - Anodized segmented reflectors provide superior uniformity and control. KSF1/KSF2 reflectors are rotatable and interchangeable, KSF3 Type IV is rotatable. Five cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff), R4W (wide, forward throw), R5S (square).

Electrical – High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

Socket - Porcelain, horizontally oriented, mogul-base socket (100M and 150M are mediumbase) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Spec-Form®



Ordering Information

Desig	gnation		Distribution	Voltage
KSF1 KSF1 KSF1 KSF2 KSF2 KSF3	70S 100S 150S 250S 400S 1000S I halide 100M	R2 R3 R4 R4SC R4W R5S	Type III asymmetric Type IV foward throw (size 3 only) Type IV forward throw, sharp cutoff (sizes 1 and 2 only) Type IV wide, forward throw (size 2 only)	120 208 ⁵ 240 ⁵ 277 347 480 ⁵ TB ⁶
1.167	I DOINI .			

ltage		Мо
20	Included, KSF	1/KSF2
08 ⁵	SP04	4" squ
40 ⁵	SP09	9" squ
277	RP04	4" rou
47	RP09	9" rou
80 ⁵	WB04	4" wa
TB ⁶	WB09	9" wa
	MB	Mount
	Included, KSF	<u>3</u> 8

4" wall bracket B09 9" wall bracket Mounting bracket (KSF1 only) ed, KSF3⁸ 12" square pole arm (std.) SP12 RP12 12" round pole arm 12" wood pole or wall WW12 WB12 12" wall bracket Shipped separately KMA Mast arm adapter

Mounting

9" square pole arm

4" round pole arm⁷

9" round pole arm

4" square pole arm (std.)⁷

Twin mounting bar DA12P Degree arm (pole) DA12WB Degree arm (wall)

FRIENDLY

Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

NOTES:

- May be ordered with SCWA.
- Must be ordered with SCWA.
- 3 Must use ED28 lamp.

KSF1 175M

KSF1 200M²

KSF1 250M 320M^{2,3}

KSF2 350M^{2,3}

KSF2 400M^{1,3}

KSF3 1000M^{1,4}

KSF2

- Must use BT37 lamp with R5S.
- 5 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Use 9" arm when mounting two luminaires at 90°.
- 8 Use 12" arm when mounting two luminaires at 90°.
- 9 May be ordered as accessory.
- 10 QRSTD available in select wattages. Consult factory.
- 11 Includes mounting arm.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KSF1	KSF2	<u>KSF3</u>
EPA:11	1.5 ft ² (.14 m ²)	2.0 ft ² (.19 m ²)	3.0 ft ² (.28 m ²)
Length:	22(55.9)	25-5/26(64.3)	30-5/16(77.0)
Width:	16-3/16(41.1)	18-1/2(47.0)	24-5/16(61.8)
Height:	7-1/4(18.4)	8-5/16(21.1)	10-1/2 (26.7)
Max.weight:	39 lbs (17.7 kg)	55 lbs (24.9 kg)	85 lbs (38.6 kg)

www.lithonia.com, keyword: KSF

Options/accessories

Installed LPI Lamp included

L/LP Less lamp

Single fuse, 120V, 277V, 347V (n/a TB)

Double fuse, 208V, 240V, 480V (n/a TB)

NEMA twist-lock receptacle only (no photocontrol)

Quartz restrike system (75W max. in KSF1, 250W max. in all others, lamp not included)¹⁰

Enhanced corrosion resistance

EC Emergency circuit

SCWA Super CWA pulse start ballast (n/a HPS, 100M, 175M)

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V-240V)

PE3 NEMA twist-lock PE (347V)

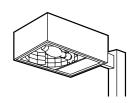
PE4 NFMA twist-lock PF (480V) PE7 NEMA twist-lock PE (277V)

SC Shorting cap for PER option

House-side shield (KSF1/KSF2: R2 and R3 only. KSF3: R3 and R4 only)

KSF_VG Vandal guard (KSF1/KSF2 only)

For tenon slip fitters, see page 540.





KAD **KAC**

Contour®



Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Housing - Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame - KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded silicone. KAC die-cast aluminum door frame has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece silicone.

Optics - KAD reflectors are anodized hydroformed or segmented aluminum. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). High-performance, segmented reflectors are rotatable and field-interchangable. KAC reflector is optical-quality aluminum that works in tandem

Voltage

120

 208^{4}

240⁴

277

347 480⁴

TB⁵

May be ordered with SCWA.

Must be ordered with SCWA

DM39 or DM49 drilling pattern.

9 May be ordered as an accessory.

11 Only available with SPD04 and SPD09

10 Includes mounting arm.

Consult factory for availability in Canada.

QRSTD available in select wattages. Consult factory

Only available with SR2, SR3, SR4SC optics.

with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high power factor (70-150W HPS,100M and 150M) or high power factor constant-wattage autotransformer (175-400W MH and HPS). Ballast is copper wound and 100% factory tested.

Finish - Dark bronze corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

Socket - Porcelain, horizontally (position) oriented mogul-base socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). KAD UL Listed for wet locations. IP65 Rated.

Ordering Information

Series	Wattage
KAD KAC	High pressure sodium 70S 100S 150S 250S 400S Metal halide 100M 150M ¹ 175M 200M ² 250M ¹ 320M ^{2,3} 350M ^{2,3} 400M ^{1,3}

	Distribution
(AD — sta	indard reflector
R2	Type II roadway
R3	Type III asymmetric
R4	Type IV forward throw, sharp cutoff
R5S	Type V square
<u>(AD – hig</u>	h performance reflector
SR2	Type II asymmetric
cna	T 101

R5S	Type V square
<u>(AD — hig</u>	h performance reflector
SR2	Type II asymmetric
SR3	Type III asymmetric
SR4SC	Type IV forward throw,
	sharp cutoff
(AC – pris	smatic lens
FD	Flat C72T

Flat C73T **DPA** Drop acrylic **DPP** Drop polycarbonate

NOTES:

Mounting

uded	
SPD04	4" square pole arm (std.)6
SPD09	9" square pole arm
RPD04	4" round pole arm ⁶
RPD09	9" round pole arm
WBD04	4" wall bracket
WBD09	9" wall bracket
nnad cana	ratoly

Shipped separately

KMA	Mast arm adapter
KTMB	Twin mounting ba
DAD12P	Degree arm (pole)
DAD12WB	Degree arm (wall)

Example: KAD 400M R3 120 SPD09 LPI

	Options/accessories
Installed	

Lamp included L/LP Less lamn

Single fuse, 120V, 277V, 347V (n/a TB) Double fuse, 208V, 240V, 480V (n/a TB) DF

NEMA twist-lock receptacle only (no photocontrol) Quartz restrike system (250W max., 120V lamp not ORS

included) PD Power tray⁸

WTB Terminal block⁸

EC **Emergency circuit**

SCWA Super CWA pulse start ballast (n/a HPS, 100M or

CSA Certified CSA

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately9

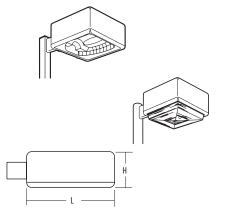
NEMA twist-lock PE (120V-240V) PE1 PE3 NEMA twist-lock PE (347V) PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

Shorting cap for PER option SC HS House-side shield (R2, R3, R4) (SR2, SR3)

KADVG Vandal guard for KAD **KADWG** Wireguard for KAD Vandal guard for KAC KACVG KACWG Wireguard for KAC

KADWBA Decorative wall bracket for KAD¹¹



Dimensions are shown in inches (centimeters) unless otherwise noted

Requires ED28 lamp when ordered with SR2, SR3 or SR4SC distributions.

Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V.

SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29,

	KAD&KACFP	KAC DP
EPA:10	1.2 ft ² (.11 m ²)	1.4ft ² (.13 m ²)
Square:	17-1/2 (44.5)	17-1/2 (44.5)
Height:	7-1/8(18.1)	11-1/8(28.3)
Max.weight:	42 lbs (19.1 kg)	40 lbs (18.1 kg



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

Applies to KAD only.



www.lithonia.com, keywords: KAD and KAC

For parking areas, street lighting, walkways and car lots.

Features

Housing - Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame - KADT die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded silicone. Door frame is fully gasketed with one-piece silicone gasket.

Optics - KADT reflectors are anodized hydroformed or segmented aluminum. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). High-performance segmented reflectors are rotatable and field-interchangable. KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high power factor (70-150W HPS,100M and 150M) or high power factor constant-wattage autotransformer (175-400W MH and HPS). Ballast is copper wound and 100% factory tested.

Finish - Dark bronze corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

Socket - Porcelain, horizontally (position) oriented mogul-base socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 Rated.



Suspend Contour®



Example: KADT 400M R3 120 SPD04 LPI

Ordering Information

Series	Wattage
KADT	Wattage High pressure sodium 70S 100S 150S 250S 400S Metal halide 100M
	150M ¹ 175M 200M ²
	250M ¹ 320M ^{2,3}
	350M ^{2,3} 400M ^{1,3}

	Distribution
KADT -	standard reflector
R2	Type II roadway
R3	Type III asymmetric
R4	Type IV forward throw,
	sharp cutoff
R5S	Type V square
<u>KADT –</u>	high-performance reflector
SR2	Type II asymmetric
SR3	Type III asymmetric
SR4SC	Type IV forward throw,
	sharp cutoff

	Distribution	Voltage
_	standard reflector	120
	Type II roadway	208 ⁴
,	Type III asymmetric	240^{4}
ļ	Type IV forward throw,	277
	sharp cutoff	347
,	Type V square	480 ⁴
_	high-performance reflector	TB ⁵
	Type II asymmetric	
,	Type III asymmetric	
	Type IV forward throw,	

Mounting⁶ Included SPD04 4" square pole arm (std.)

Drilling Patterns: (See pole ordering page 552.)

DM28KADT

2 at 180° DM32KADT 3 at 120° (round poles only)

Options/accessories

Install	led	

LPI Lamp included

L/LP Less lamp Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

PER NEMA twist-lock receptacle only (no photocontrol) ORS

Quartz restrike system (250W max., 120V lamp not included)

PD Power tray8

Terminal block⁸ WTB

EC Emergency circuit

Super CWA pulse start ballast (n/a HPS, 100M or SCWA

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately9

NEMA twist-lock PE (120V-240V)

PE3 NEMA twist-lock PE (347V) PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

Shorting cap for PER option SC

House-side shield (R2, R3, R4) (SR2, SR3) HS

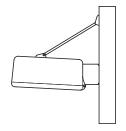
KADVG Vandal guard for KAD KADWG Wirequard for KAD



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

Dimensions are shown in inches (centimeters) unless otherwise noted.

EPA10: 1.3 ft² (.12 m²) Square: 17-1/2(44.5) 7-1/8(18.1) Height: 45 lbs (20.4) Max. weight:





NOTES:

1 May be ordered with SCWA.

2 Must be ordered with SCWA.

9 May be ordered as an accessory. 10 Includes mounting arm.

4 Consult factory for availability in Canada.

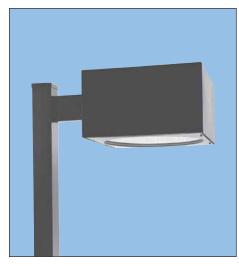
6 KADT mounts 11.24" lowre than specified pole height.

 ${\tt QRSTD\,available\,in\,select\,wattages.\,Consult\,factory.}$ Only available with SR2, SR3, SR4SC optics.

3 Requires ED28 lamp when ordered with SR2, SR3 or SR4SC distributions.

Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada.

KVF



Intended Use

For car lots, street lighting or parking areas.

Features

Construction - Heavy-gauge, die-formed aluminum housing, fabricated using robotic continuous seam-weld process for weathertight integrity. Integral structural support plate for mounting arm and electrical components. Hinged aluminium door frame with stainless steel hardware. Continuous silicone gasketing surrounds lens.

Finish - Standard finish is dark bronze corrosionresistant electrostatically applied powder paint. Optional linear embossed accent reveals are available. Dark bronze polyester powder paint is standard. Other architechtural colors available.

Optics - Vertical-lamp reflectors are one-piece spun and formed anodized aluminum. Horizontal-lamp reflectors also available. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Horizontal position-oriented for types R2, R3 and R4. Reflectors are rotatable and interchangable. UL Listed 1500W-600V, 4KV pulse rated. (1000S is 5K pulse rated.)

Electrical - Electrical components mounted to heavy-gauge plate to maximize heat dissipation and structural integrity. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Super CWA pulse start ballasts required for 320M, 350M, 450M and 750M (must order SCWA option).

Installation - Extruded aluminium arm with integral splice compartment. Standard arm is 9" in length. (12" arm is required for fixtures mounted at 90°.)

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. Optical chamber is IP65 rated for ingress protection per IEC529 international standards.

Ordering Information

Desi	ignation		Distribution	Voltage		Mounting
High pre KVF KVF KVF	250S 400S 1000S ¹ al halide 175M ² 200M ³ 250M ² 320M ³ 350M ³ 400M ²	SYMDL ASYDL SYMFL ASYFL VFADL VFAFL Horizonta R2DL	Symmetric square, drop lens, semi-cutoff Asymmetric, drop lens, semi-cutoff Asymmetric, drop lens, semi-cutoff Symmetric square, flat lens, full-cutoff ⁵ Asymmetric, flat lens, full-cutoff ⁵ Vertical forward throw, automotive, drop lens, semi-cutoff Vertical forward throw, automotive, flat lens, full-cutoff ⁵ Llamp distribution Type II roadway, drop lens ⁵	Voltage 120 208 ⁷ 240 ⁷ 277 347 480 ⁷ TB ⁸	Arm mounts SP04 RP04 SP06 RP06 SP09 RP09 SP12 RP12 WB12 KMA	nting
KVF	450M ³	R3DL	Type III asymmetric, drop lens ⁵		Post-top r	nounting ¹⁰
KVF	750M ³	R2FL	Type II roadway, flat lens ⁵		PT4	Post-top, 4" OD open-top pole
KVF	1000M ^{2,4}		Type III asymmetric, flat lens ⁵		PT45	Post-top, 4-1/2" OD open-top pole
		SR2FL	<u>d reflector</u> Type II segmented, roadway, flat Iens ^{5,6,10}		PT5 PT6 RPF20	Post-top, 5" OD open-top pole Post-top, 6" OD open-top pole Round pole fitter (2-3/8" OD tenon)
		SR3FL	Type III segmented, asymmetric, flat lens ^{5,6,10}		RPF25 SPF20	Round pole fitter (2-7/8" OD tenon) Square pole fitter (2-3/8" OD
		SR4SCFL	Type IV segmented, forward throw, sharp cutoff, flat lens ^{5,6,10}		SPF25	tenon) Square pole fitter (2-7/8" OD
NOTES:		SR4WFL	Type IV segmented, wide forward throw, sharp cutoff, flat lens ^{5,6,10}		JFF23	tenon)

Example: KVF 1000M SYMDL 480 SP09 LPI

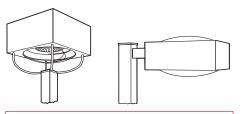
	Options/accessories
Installed	
LPI	Lamp included
L/LP	Less lamp
PER	NEMA twist-lock receptacle only (photocontrol not included)
SF	Single fuse, 120V, 277V, 347V (n/a TB)
DF	Double fuse, 208V, 240V, 480V (n/a TB)
EC	Emergency circuit (250W max., lamp not included)
SCWA	Super CWA pulse start ballast (n/a HPS) ¹¹
KW1	iniorraten izor control icia)
KW4	,
EHS	External mouse side silicia
EHSB	External house-side shield black ¹³
QRS	Quartz restrike system (250W max., lamp not included)
QRSTD	QRS time delay (250W max., lamp not included)
TLS	Tool-less access
CR	Enhanced corrosion resistance
EA	Embossed accents
CSA	CSA Certified
NOM	NOM Certified (consult factory)
Shipped s	<u>eparately</u>
PE1	NEMA twist-lock PE (120V-240V)
PE3	NEMA twist-lock PE (347V)
PE4	NEMA twist-lock PE (480V)
PE7	NEMA twist-lock PE (277V)
SC	Shorting cap for PER option
KVFVG	Vandal guard

NOTES:

- 1 Must use standard E-25 lamp. Only available with SYMDL, ASYDL and VFADL. n/a347V.
- 2 May be ordered with SCWA.
- Must be ordered with SCWA.
- 1000M requires BT37 reduced jacket lamp.
- 5 Not available with 1000S
- Not available with 450M, 750M or 1000M.
- Consult factory for availability in Canada
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- $Must order SP12 \, or \, RP12 \, when \, two \, or \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, on \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, or \, a \, 900 \, more \, luminaires \, are \, oriented \, ori$ drilling pattern
- $10 \quad Segmented \, reflectors \, not available \, with \, post-top \, mounting \, configurations.$
- 11 175M, 750M and 1000M available in vertical lamp distributions only.
- 12 For specific ordering information, consult factory.
- 13 May be ordered as an accessory.

Dimensions are shown in inches (centimeters) unless otherwise noted.

FPA-9 2 8ft² (25 m²) Square: 21-1/2(54.6) Height: 17(43.2) 53 lbs (24 kg) Max.weight:



www.lithonia.com, keyword: KVF



For tenon slipfitters, see page 540.

Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

Will not meet with DL or EHS options.



For lighting shopping center or stadium parking lots.

Features

Housing – Rugged, heavy-gauge, aluminum housing. Square shape, continuously welded seams for weather-tight integrity. EPDM closed-cell housing gasket.

Finish – Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other arch colors available.

Lens – Impact-resistant flat glass is standard for KVS1, R2, R3 and R4. Convex glass lens is standard with all KVS3 and KVS1 R5.

Door Frame – Extruded aluminum hinged door frame. All exposed hardware is stainless steel.

Mounting – Extruded 9" (KVS1) and 12" (KVS3) arms with integral splice compartment for wall or pole mounting. Optional mounting available.

Optics – One-piece, anodized, hydroformed aluminum reflector. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). Reflectors hinge out for easy removal during installation/maintenance. R5 is vertically lamped; R2, R3, and R4 are horizontally lamped.

Electrical – 150W and below high reactance high power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power module and positive-locking disconnect plugs.

Socket – Mogul-base porcelain socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. (1000S is 5KV pulse rated.)

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.





Example: KVS1 150S R2 120 SP09 PER LPI

Ordering Information

Desig	nation		Distrik	oution
High press	ure sodium			
KVS1	70S	R2	R3	R4
KVS1	100S	R2	R3	R4
KVS1	150S	R2	R3	R4
KVS1	250S	R2	R3	R4
KVS3	400S	R2	R3	_
KVS3	1000S		_	_
Metal	<u>halide</u>			
KVS1	100M	R2	R3	R4
KVS1	150M ¹	R2	R3	R4
KVS1	175M	R2	R3	R4
KVS1	200M ²	R2	R3	R4
KVS1	250M ¹	R2	R3	R4
KVS3	320M ²	R2	R3	_
KVS3	350M ²	R2	R3	_
KVS3	400M ¹	R2	R3	_
KVS3	1000M ^{1,3}	R2	R3	_

Mounting	J
KVS1, shipped separately	

Voltage

120 208⁴

2404

277

347

480⁴

TB

SP09 Square pole arm RP09 Round pole arm

WB09 Wall bracket
KTMB Twin mounting bar (Directly

mounts to 2-7/8" OD tenon)
KVS3, shipped separately

SP12 Square pole arm

RP12 Round pole arm

WB12 Wall bracket

MA Mast arm internal fitter⁶

Optional Mounting

KVS1 & KVS3, shipped separately

KMA Mast arm adapter (KVS1 only)⁷

DA12P Degree arm (pole)⁶

DA12WB Degree arm (wall)⁶

Options/accessories

<u>Installed</u>

LPI Lamp included

L/LP Less lamp

SF Single fuse, 120V, 277V, 347V

DF Double fuse, 208V, 240V, 480V

 $\textbf{PER} \quad \text{NEMA twist-lock receptacle only (no photocontrol)}$

QRS Quartz restrike system (100W max. on KVS1, 250W max. on KVS3; lamp not included)

CR Enhanced corrosion resistance

EC Emergency circuit

MED Medium-base socket (size 1 only)

HS House-side shield (R3, R4, R5 only)

SCWA Super CWA pulse start ballast (n/a HPS or 100M) (175M with R5 only).

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120-240V)

PE3 NEMA twist-lock PE (347V)

PE4 NEMA twist-lock PE (480V)
PE7 NEMA twist-lock PE (277V)

SC Shorting cap for PER option

VG Vandal guard (n/a KVS3)

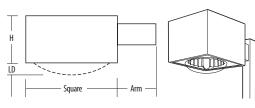
For tenon slip fitters, see page 540.

NOTES:

- 1 May be ordered with SCWA
- 2 Must be ordered with SCWA
- ${\it 3} \quad {\it Mustuse}\, BT37 reduced jacket lamp for 1000M, R2 and R3, R5 takes}\, BT56 standard lamp.$
- ${\small 4}\>\>\>\> Consult factory for availability in Canada.$
- 5 Optional multi-tap ballast (120V, 208V, 240V, 227V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Single/twin, 180° configuration.
- 7 For use with 6" minimum 2-3/8" OD pipe.
- 8 Includes mounting arm.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KVS1	KVS3	
EPA:8	1.8 ft ² (.17 m ²)	$3.9 \text{ft}^2 (.36 \text{m}^2)$	
Square:	16-3/4(42.0)	24(61.0)	
Height:	10-1/2(26.0)	16-1/2(42.0)	
Max.weight:	33 lbs (15.0 kg)	74 lbs (34.0 kg)	







KVE



Ordering Information

Designation

High pressure sodium

KVE2 250S

KVE2 400S

KVE3 400S

KVE3 1000S

Metal halide

KVE2 175M

KVE2 200M

KVE2 250M²

KVE2 320M^{1,3}

KVE2 350M^{1,3}

KVE2 400M^{2,3}

KVE3

KVE3

400M²

1000M²

Distribution

Vertical lamp distribution

SYM Symmetric^{4,5}

SYMC Symmetric (n/a 1000S)⁶

ASY Asymmetric⁵

ASYC Asymmetric⁶

Horizontal lamp distribution

R2 Type II roadway

R3 Type III asymmetric

R4SC Type IV forward throw,

sharp cutoff

(1000M only)3

Type IV forward throw

Type V symmetric square³

NOTES:

- 1 Must be ordered with SCWA.
- May be ordered with SCWA.
- 3 320W, 350W, 400W MH requires ED28 lamp; 1000WMH requires BT37 lamp (n/a KVE3 1000S).
- 4 Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- $5 \quad \text{Meets IES semi-cutoff criteria with metal halide lamp sources}.$
- 6 Meets IES cutoff criteria.
- $7 \quad Consult factory for availability in Canada. \\$
- 8 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 9 For KVE2 luminaires, SPV12, RPV12, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.
- $10 \quad For KVE3 \, luminaires, SPV14 \, or \, RPV14 \, must \, be used \, when \, two \, or \, more \, luminaires \, oriented \, on \, a \, 90^\circ \, drilling \, pattern.$
- 11 400W maximum.

Intended Use

For streets, parking lots and surrounding areas.

Features

Housing – Square-shaped, rugged, heavy-gauge, extruded aluminum housing. Fully gasketed for weather-tight integrity. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Lens – Impact-resistant, clear, 3/16" thick, tempered drop lens.

Mounting – Extruded aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

Optics – Segmented, anodized aluminum optics are interchangeable and rotatable. Vertically lamped sealed optics include symmetric, symmetric cutoff, asymmetric and asymmetric cut-

off. Design redirects light around arc-tube for optimum lamp life and maximum efficiency. Five horizontal lamp cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff) R4W (wide, forward throw) and R5S (symmetric).

Electrical – Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Removable power tray and positive locking disconnect plug.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. US patent no. D417,026.

Example: KVE2 250S SYM 120 RPV06 SF LPI

Voltage	
120	
208 ⁷	
240 ⁷	
277	

347

480

 TB^7

Mounting9 Included 4" square pole arm (std.)9,10 SPV04 SPV06 6" square pole arm^{9,10} 9" square pole arm^{9,10} SPV09 SPV12 12" square pole arm¹⁰ SPV14 14" square pole arm RPV04 4" round pole arm^{9,10} 6" round pole arm^{9,10} RPV06 9" round pole arm^{9,10} RPV09 12" round pole arm¹⁰ RPV12 RPV14 14" round pole arm WBV09 9" wall bracket

Shipped separately
PT4 Post-tor

PT4 Post-top, 4" 0D open-top pole
PT45 Post-top, 4-1/2" 0D open-top pole
PT5 Post-top, 5" 0D open-top pole

PT6 Post-top, 6" OD open-top pole
RPF20 Round pole fitter (2-3/8" OD tenon)
RPF25 Round pole fitter (2-7/8" OD tenon)

SPF20 Square pole fitter (2-3/8" OD tenon)
SPF25 Square pole fitter (2-7/8" OD tenon)

Options/accessories

Installed

LPI Lamp included

L/LP Less lamp

SF Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

 $\textbf{PER} \quad \text{NEMA twist-lock receptacle only (no photocontrol)}$

QRS Quartz restrike system (250W max., 120V only, lamp notincluded)

GFL Glass flat lens¹¹

CR Enhanced corrosion resistance

EC Emergency circuit

HS House-side shield (ASY, ASYC only. R2, R3 shipped separately)

SCWA Super CWA pulse start ballast (n/a HPS, 175M or 1000M horizontal)

LS Lamp support (size 3 horizontal optics only)

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

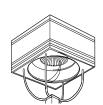
PE1 NEMA twist-lock PE (120-240V)

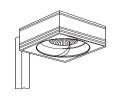
PE3 NEMA twist-lock PE (347V)

PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

SC Shorting cap for PER option





Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KVE2 (arm)	KVE2 (post)	KVE3 (arm)	KVE3 (post)
EPA:	3.3 ft ² (.31 m ²)	3.4ft ² (.32 m ²)	4.2ft ² (.39 m ²)	$4.5 \text{ft}^2 (.42 \text{m}^2)$
Square:	25(63.5)	25 (63.5)	29(73.7)	29(73.7)
Height:	16-3/4(42.5)	23-7/8(60.6)	18-1/2(47.0)	18-1/2(47.0)
Max.weight:	77 lbs (34.9 kg)	87 lbs (39.5 kg)	87 lbs (39.5 kg)	97 lbs (44.0 kg)



Consistent with LEED* goals & Green Globes™ criteria for light pollution reduction

Requires glass flat lens (GFL) option.



For streets, parking lots and surrounding areas.

Features

Housing - Cylindrically shaped, rugged, heavygauge, spun aluminum housing. Fully gasketed for weathertight integrity. Standard finish is dark bronze (DDB) polyester powder. Other architectural colors available. KVR2 standard door frame is natural aluminum (DNA). Door frame can be painted to match housing color (see DFP option below).

Lens - Impact-resistant, clear, 3/16" thick, tempered drop lens.

Mounting - Extruded-aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

Must order SPVD14 or RPVD14 when two or more luminaires are oriented on a 90°

10 175M and 1000M available in vertical lamp distributions only.

13 For specific ordering information, consult factory.

15 Door frame is standard DNA (natural aluminum.)

Optics - KVR2 vertical-lamp reflectors are one piece spun and formed around anodized aluminum. KVR2 horizontal-lamp hydroformed and segemented reflectors also available. KVR2 reflectors are rotatable and interchangeable. KVR3 segmented, anodized aluminum optics also are rotatable and interchangeable.

Electrical - Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Super CWA pulse start ballasts required for 320M and 350M (must order SCWA option).

Socket - Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

KVR



Ordering Information

Example: KVR2 250S SYMDL 120 RPD06 SF LPI

			· 		
Designation	Distribution	Voltage	Mounting		Options/accessories
Designation High pressure sodium KVR2 250S KVR2 400S KVR3 400S KVR3 1000S Metal halide KVR2 175M1 KVR2 200M2 KVR2 250M1 KVR2 350M2 KVR2 350M2 KVR2 400M1 KVR3 400M KVR3 1000M1	KVR2 vertical lamp distribution SYMDL Symmetric square, drop lens, semi-cutoff³ ASYDL Asymmetric, drop lens, semi-cutoff³ SYMFL Symmetric square, flat lens, full-cutoff³ ASYFL Asymmetric, flat lens, full-cutoff³ VFADL Vertical forward throw, automotive, drop lens, semi-cutoff³ VFAFL Vertical forward throw, automotive, flat lens, full-cutoff³ KVR2 horizontal lamp distribution R2DL Type II roadway, drop lens³ R3DL Type III asymmetric, drop lens³ R2FL Type III asymmetric, flat lens³ KVR2 segmented reflector SR2FL Type III segmented, roadway, flat lens³ SR3FL Type IV segmented, roadway, flat lens³ SR4SCFL Type IV segmented, forward throw, sharp cutoff, flat lens³ SR4SCFL Type IV segmented, forward throw, flat lens³ SR4WFL Type IV segmented, wide forward throw, flat lens³ SVMS vertical lamp distribution SYM Symmetric, drop lens, semi-cutoff⁴.5 SYMC Symmetric, drop lens, semi-cutoff⁴ ASYC Asymmetric, drop lens, semi-cutoff⁴ ASYC Asymmetric, drop lens, semi-cutoff⁴ KVR3 horizontal lamp distribution R2 Type III roadway, drop lens (n/a 1000S)⁴.12 R3 Type III asymmetric, drop lens (n/a 1000S)⁴.12 R3 Type III asymmetric, drop lens (n/a 1000S)⁴.12	Voltage 120 208 ⁶ 240 ⁶ 277 347 480 ⁶ TB ⁷	Mounting KVR2 arm mounting SPD04 4" Square pole arm8 RPD04 4" Round pole arm8 SPD06 6" Square pole arm8 RPD06 6" Square pole arm8 RPD09 9" Square pole arm8 RPD09 9" Square pole arm8 SPD12 12" Square pole arm RPD12 12" Square pole arm RPD12 12" Round pole arm WBD12 12" Wall bracket KMA Mast arm (external fitter) KVR3 arm mounting SPVD04 4" Square pole arm9 RPVD06 6" Square pole arm9 RPVD06 6" Square pole arm9 SPVD09 9" Square pole arm9 SPVD09 9" Square pole arm9 SPVD12 12" Square pole arm9 SPVD12 12" Square pole arm9 RPVD14 14" Square pole arm9 SPVD14 14" Square pole arm9 RPVD15 12" Square pole arm9 RPVD16 14" Square pole arm9 RPVD17 12" Square pole arm9 RPVD18 12" Square pole arm9 RPVD19 9" Wall bracket KVR2 & KVR3 post-top mounting PT4 Post top, 4" 0D open-top pole PT45 Post top, 4-1/2" 0D open-top pole	LS SCWA KW1 KW4 EHSB QRS GFL QRSTD TLS DFP CR	Lamp included Less lamp NEMA twist-lock receptacle only (photocontrol not included) Single fuse, 120V, 277V, 347V (n/a TB) Double fuse, 208V, 240V, 480V (n/a TB) Emergency circuit (250W max., lamp not included) House-side shield (ASY, ASYC only. R2, R3 shipped separately) ⁴ Lamp support (size 3 horizontal optics only) Super CWA pulse start ballast (n/a HPS) ¹⁰ KiloWatch 120V control relay ^{3,13} KiloWatch 277V control relay ^{3,13} External house-side shield black ^{3,11} External house-side shield black ^{3,11} Quartz restrike system (250W max., lamp not included) Glass flat lens ^{4,14} QRS time delay (250W max., lamp not included) ³ Tool-less access ³ Door frame painted to match housing ¹⁵ Enhanced corrosion resistance CSA Certified
NOTES: 1 May be ordered with SCV	R4SC Type IV , forward throw, sharp cutoff, drop lens (n/a 1000S) ^{4,12}		PT5 Post top, 5" OD open-top pole PT6 Post top, 6" OD open-top pole	NOM Shipped s	
2 Must be ordered with SC3 Not available with KVR34 Not available with KVR2	DAW Type IV wide forward throw drop lone (n/2 1000C)4.1/		RPF20 Round pole fitter (2-3/8" OD tenon) RPF25 Round pole fitter (2-7/8" OD tenon) SPF20 Square pole fitter (2-3/8" OD tenon)	PE1 PE3 PE4 PE7	NEMA twist-lock PE (347V)
5 Meets IES cutoff criteria 6 Consult factory for availa	or 1000W high pressure sodium luminaire.	1	SPF25 Square pole fitter (2-7/8" OD	SC	Shorting cap for PER option
7 Optional multi-tap balla 347V; ships as 120v/347	st (120V, 208V, 240V, 277V). In Canada 120V, 277V,	/ & Gi	tenon) sistent with LEED* goals reen Globes™criteria ight pollution reduction		Vandal guard pfitters, see pages 540.
o Mustoluel 3FD 1201 KPD	2 WHICH LWO OF HOTCE IN HINDER MICHAEL OF THE MICHA		• .		

Requires glass flat lens (GFL) option.

FRIENDLY

Dimensions are snown in inches (centimeters) unless otherwise noted.					
	KVR2(arm)	KVR2 (post)	KVR3 (arm)	KVR3 (post)	
EPA:	1.6 ft ² (.15 m ²)	$1.7 \text{ft}^2 (.16 \text{m}^2)$	2.0ft ² (.19m ²)	2.2ft ² (.20 m ²)	
Diameter:	25(63.5)	25(63.5)	29(73.7)	29(73.7)	
Height:	17(43.1)	23-7/8(60.6)	18-1/2(47.0)	29-3/16(74.1)	
Max.weight:	56 lbs (25 kg)	60 lbs (27.0 kg)	70 lbs (31.8 kg)	80lbs(36.3kg)	





drilling pattern.

drilling pattern.

14 400W maximum.

11 May be ordered as an accessory 12 Must use BT37 lamp.

LITHONIA OUTDOOR

KAR



Intended Use

For parking lots, plazas or entrances.

Features

Housing – Rugged, heavy-gauge, spun-aluminum housing in centriform shape. Dark bronze polyester corrosion-resistant powder finish (DDB) standard; other architectural colors available.

Door Frame - Aluminum door frame standard with 1/8" impact-resistant, tempered-glass lens. Stainless steel external hardware. One-piece EPT closed-cell gasket.

Mounting - Contoured, extruded-aluminum 9" (KAR1/KAR2) and 12" (KAR3) arms with integral splice compartment for pole or wall mounting. Optional mountings available.

Optics - Anodized, hydroformed aluminum reflectors. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5S (symmetric). R4 reflector is field-rotatable. Reflectors hinge out for easy installation and maintenance.

Electrical - 150S, 100-150M high reactance, high-power factor ballast. Constant-wattage autotransformer ballast, copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

Socket - Horizontally oriented mogul-base porcelain socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. (1000S is 5KV pulse rated)

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Ordering Information

Desig	nation
High press	ure sodium
KAR1	1505
KAR2	2505
KAR2	4005
KAR3	1000S
Metal	<u>halide</u>
KAR1	100M
KAR1	150M ¹
KAR1	175M
KAR1	200M ²
KAR1	250M ¹
KAR2	320M ²
KAR2	350M ²
KAR2	400M ¹
KAR3	1000M ¹

	Distribution	Voltag
R2 R3 R4 R5S	Type II roadway (n/a 1000 watt) Type III asymmetric Type IV forward throw (n/a size 1) Type V symmetric square (n/a size 1)	120 208 ³ 240 ³ 277 347 480 ³ TB ⁴

Voltage
120
208 ³
240 ³
277
347
480 ³
TB ⁴

	Mounting	
KAR1/KAR2, shipped separately		
SPD09	9" square pole arm	
RPD09	9" round pole arm	
WBD09 9" wall bracket		
KAR3, shipped separately		
SPD12	12" square pole arm	
RPD12	12" round pole arm	
WBD12	12" wall bracket	
Shipped separately		
KMA	Mast arm adapter	
KTMB	Twin mounting bar	
DAD12P	Degree arm (pole)	
DAD12WB	Degree arm (wall)	

Options/accessories

Example: KAR3 1000S R4 120 RPD12 LPI

Installed	

LPI Lamp included

L/LP Less lamp

Single fuse, 120V, 277V, 347V (n/a TB) SF

Double fuse, 208V, 240V, 480V (n/a TB)

PER NEMA twist-lock receptacle only (no photocontrol) ORS Quartz restrike system (250W max., 120V lamp not

included)

CR Enhanced corrosion resistance

EC Emergency circuit

House-side shield (R3, R4 only)

SCWA Super CWA pulse start ballast (n/a HPS, 100M, 175M)

CSA CSA Certified

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V-240V)⁵

PE3 NEMA twist-lock PE (347V)⁵

PE4 NEMA twist-lock PE (480V)⁵

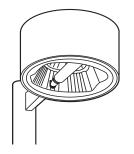
PE7 NEMA twist-lock PE (277V)⁵

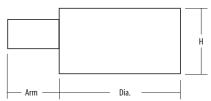
SC Shorting cap for PER option

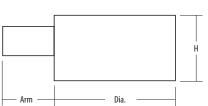
VG Vandal guard (KAR1/2 below 400W) For tenon slipfitters, see page 540.

$Dimensions \ are \ shown \ in \ \textbf{inches} \ (\textbf{centimeters}) \ unless \ otherwise \ noted.$

	KAR1	KAR2	KAR3
EPA:6	1.2 ft ² (.11 m ²)	1.5 ft ² (.14 m ²)	2.2 ft ² (.20 m ²)
Diameter:	19-1/2 (49.5)	21-1/2 (54.6)	30(75.6)
Height:	7-1/4(18.4)	8-5/16(21.1)	10-1/2(26.7)
Arm length:	9(22.9)	9(22.9)	12(30.5)
Max. weight:	36 lbs (15.0 kg)	45 lbs (20.0 kg)	53 lbs (24.0 kg)







NOTES:

- 1 May be ordered with SCWA.
- Must be ordered with SCWA
- 3 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 PER must be ordered with fixture.
- 6 Includes mounting arm.



For walkways, plazas or pedestrian areas.

Features

Housing - Rugged, heavy-gauge, formed-aluminum housing. EPDM one-piece, closed-cell gasket. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Door Frame - Permanent-mold, cast-aluminum door frame with positive hold-open device. Stainless steel external hardware.

Enclosure - Thermoformed clear acrylic, 0.125" minimum wall thickness. Lens gaskets are EPDM one-piece closed-cell.

Mounting - Internal expansion sleeve pole-fitter with integral splice compartment. Clean transition to pole via 1/4" transition plate. No external hardware. KKS fixture mounts to 4" square, open-top pole. KKR fixture mounts to 4-1/2" round, open top pole. Other pole sizes require

tenon and tenon slipfitter.

Optics - One-piece, hydroformed, anodizedaluminum reflectors. Four cutoff distributions available: R3 (asymmetric), R4 (forward throw), R5 (symmetric, vertical) and R5S (square). Field-interchangeable reflectors hinge out for easy maintenance.

Electrical - 70-150S high reactance, high-power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power door and positive-locking disconnect plugs (primary and secondary).

Socket - Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.



Example: KKS 70S R3 120 QRS LPI

Ordering Information

_		
Series	Wattage	Distribution
KKS KKR	High pressure sodium 705 1005 1505 2505 4005 Metal halide 150M ¹ 175M 200M ² 250M ¹	R3 R4 ³ R5 ³ R5S
	320M ² 350M ²	

400M¹

Voltage
120
208^{4}
240 ⁴
277
347
480^{4}
TB ⁵

Optional mounting ⁶			
Shipped se	<u>eparately</u>		
SM	(
	luminaire)		
WM	Wall-mounting assembly		
T20	Tenon slipfitter (for 2" pipe tenon,		
	2-3/8" OD)		
T25	Tenon slipfitter (for 2-1/2" pipe		

tenon, 2-7/8" OD)7

Options/accessories

Installed

LPI Lamp included

L/LP Less lamp

Single fuse, 120V, 277V, 347V (n/a TB)

Double fuse, 208V, 240V, 480V (n/a TB)

NEMA twist-lock receptacle only (no photocontrol)

Quartz restrike system (250W max., 120V lamp not included)

Enhanced corrosion resistance

EC Emergency circuit

Polycarbonate lens

HS House-side shield (R3 and R4 only)

SCWA Super CWA pulse start ballast (n/a HPS or 175M).

CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

PE1 NEMA twist-lock PE (120V-240V)

PE3 NEMA twist-lock PE (347V)

PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V) SC Shorting cap for PER option

For tenon slipfitters, see page 540

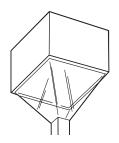
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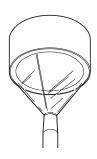
- 1 May be ordered with SCWA.
- Must be ordered with SCWA
- 3 Requires ED28 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- $When ordering separately, order as KK_SM, KK_WM or KK_T20 or KKRT25.$

wise noted.

ensions are shown in inches (centimeters) unless otherw		
<u>KKS</u>	<u>KKR</u>	
2.5 ft ² (.23 m ²)	1.6 ft ² (.15 m ²)	
20-1/4(51.4)	N/A	
N/A	22-1/4(56.5)	
11-3/4(29.9)	11 (27.9)	
20-3/4(52.7)	20-1/2(52.1)	
54 lbs (24.4kg)	45 lbs (20.0 kg)	
	N/S 2.5 ft ² (.23 m ²) 20-1/4(51.4) N/A 11-3/4(29.9) 20-3/4(52.7)	

www.lithonia.com, keywords: KKS and KKR







TPA



Intended Use

Residential streets, office complexes, campuses, parks, shopping areas, condominiums and hotels.

Features

Construction – Die-cast aluminum housing and spun aluminum hood coated with polyester powder paint for long-lasting, dependable service. Multi-gasketing system provides weather-proof protection of the optical assembly with hinged hood and captive screw latch promoting case maintenance. Standard finish is grey (DGYG).

Optical System – Prismatic refractors deliver IES roadway distribution types II, III or V. Refractors are available in acrylic, polycarbonate and tempered glass.

Electrical – Reactor, normal power factor ballast (150-watt HPS and below), lag high power factor ballast (250-watt HPS and above) or constant wattage autotransformer (MH and MV) is standard. Other ballasts are available.

Installation – Cone mounting filter with three unobtrusive set screws fastens fixture securely to round poles or tenons sized from 2-3/8" to 3" OD.

Listings

Standard product is NOT Listed by UL, CSA or NOM. Complies to ANSI: C136.2, C136.10, C136.15, C136.16.

Ordering Information

Series	Wattage
ТРА	355 ¹ 505 ¹ 705 1005 1505 2505 4005 ² 175M 250M 400M ² 175MV 250MV
	400MV ²

	Distribution	
R2A	Type II roadway, acrylic lens	
R3A	Type III asymmetric, acrylic lens	
R5A	Type V symmetric, acrylic lens	
R2P	Type II roadway, polycarbonate lens	
R3P	Type III asymmetric, polycarbonate lens	
R5P	Type V symmetric, polycarbonate lens	
R2G	Type II roadway, glass lens	
R3G	Type III asymmetric, glass lens	
R5G	Type V symmetric, glass lens	

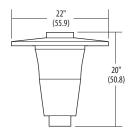
Voltage	
120	
208	
220	
240	
277	
347	
480	
TB ³	
TB1 ³	
TB2 ³	
TB3 ³	
120/240 ⁴	
240/120	
240/480 ⁵	
480/240 ⁶	

	Ballast options ⁷
(blank) RHP RNP	Standard ballast (see above) Reactor high power factor ⁸ Reactor normal power factor
50HZ	50 hertz (consult factory)
XHP	High reactance (lag), high power factor ⁸
XNP	High reactance (lag), normal power factor ⁸
CWA	Constant wattage autotransformer
CWI	CWI ballast
MRB	Mag reg ballast

Options Installed LPI Lamp included L/LP Less lamp SF Single fuse (120V, 277V 340V only) Double fuse (208V, 220V, 240V, 480V only) NEMA twist-lock receptacle only PER (photocontrol not included). PEU NEMA twist-lock PE9 SDH Style D hood Open plug-in starter8 **ENP** Encapsulated plug-in starter⁸ NML NEMA label **HSS** Stainless steel external hardware

Example: TPA 1005 R2A 120 LPI





All dimensions are **inches (centimeters)** unless otherwise noted. Dimensions do not include mounting arm.

EPA: 1.3ft²(0.12m²)
Height: 20(50.8)
Outside diameter: 22(55.9)
Weight: 41 lbs (18.6kg)

NOTES:

- 1 Only available with 120V.
- ${\small 2}\quad \mbox{Notavailable with a crylic or polycarbonate lens; must order with either R2G, R3G or R5G.}$
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1=120V; 2=208V; and 3=240V.
- 4 Prewired to 120 volt.
- 5 Prewired to 240 volt.
- 6 Prewired to 480 volt.
- $7 \quad \text{Not all ballast options are available with wattages/sources/voltages. Consult factory.} \\$
- 8 HPS only.
- 9 Must be ordered with PER.



Residential streets, office and retail complexes, campuses, parks, condominiums and hotels.

Features

Constuction - Die-cast aluminum housing provides long life, strength and dependable service. Durable polyester powder paint provides longlasting standard black finish. Integral die-cast hinged top for easy lamping and maintenance, with captive screw latch promoting case maintenance. NEMA twistlock photocell is unobtrusively integrated into top cap detail.

Optical System - Reflector/refractor systems deliver IES roadway types II, III or V. Refractor panels are available in either acrylic or polycarbonate.

Electrical – Reactor, normal power factor ballast

is standard for HPS units (high power factor available). Constant wattage autotransformer (high power factor) is standard for MH and MV units.

Installation - Unit mounts quickly and easily to 2-3/8" OD to 3" OD poles or tenons. Set screws anchor the fixture firmly.

Listings

Standard product is NOT Listed by UL, CSA or NOM. For UL and CSA (see Options). Complies to ANSI: C136.2, C136.10, C136.15, C136.16.





Example: TCL 100S R2A 120 LPI

Ordering Information

Series	 Wattage		Distribution	Voltag
TCL	355 ¹ 505 ¹ 705 1005 1505 175M 175MV	R2A R3A R5A R5CA R2P R3P R5P R5CP	Type II roadway, acrylic lens Type III asymmetric, acrylic lens Type V symmetric, acrylic lens Type V symmetric, clear acrylic lens Type II roadway, polycarbonate lens Type III asymmetric, polycarbonate lens Type V symmetric, polycarbonate lens Type V symmetric, clear polycarbonate lens Type II roadway ^{6,8}	120 208 220 240 277 347 480 TB ² TB1 ² 120/24 240/48

Voltage
120
208
220
240
277
347
480
TB ²
TB1 ²
TB2 ²
TB3 ²
120/240 ³
240/480 ⁴
240/480 ⁴
480/240 ⁵

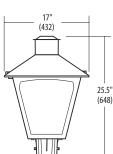
	Ballast options ⁹
(blank)	Standard ballast (see above)
RHP	Reactor high power factor ⁶
RNP	Reactor normal power factor
50HZ	50 hertz (consult factory)
XHP	High reactance, high power factor ⁶
XNP	High reactance (lag), normal power factor ⁶
CWA	Constant wattage autotransformer
CWI	CWI ballast
MRR	Mag reg ballast

Installed	
LPI	Lamp included
L/LP	Less lamp
SF	Single fuse (120V, 277V, 347V only)
DF	Double fuse (208V, 220V, 240V, 480V only)
PER	NEMA twist-lock receptacle only (photocontrol not included).
PEU	NEMA twist-lock PE ¹⁰
OPS	Open plug-in starter ⁶
ENP	Encapsulated plug-in starter ⁶
NML	NEMA label
HS	House side shield
TLS	Tool-less entry
HSS	Stainless steel external
	hardware
FC	Full cutoff ^{6,7}

Options



UL UL Listed CSA Certified



- 1 Only available with 120V.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Othersare; 1=120V; 2=208V; and 3=240V.
- 3 Prewired to 120V
- 4 Prewired to 240V
- 5 Prewired to 480V
- 6 HPS only.
- 7 Available with R2 distribution, 120V, RNP ballast only.
- 8 Available with FC option only.
- $9 \quad \text{Not all ballast options are available with all wattages/sources/voltages.} \\ \text{Considering the properties of the$ sult factory.
- 10 Must be ordered with PER.

Dimensions are shown in inches (centimeters) unless otherwise noted. Dimensions do not include mounting arm.

> FPA. 1.6ft²(0.15m²) Height(B): 25-5/8(57.5) Width: 16-1/4(41.3) 36 lbs (12.7 kg) Weight:

LITHONIA OUTDOOR

KT1



Intended Use

For parking lots, walkways, building facades, industrial sites and entrances. Designated for intrinsically dark areas, such as those surround observatories and sea turtle habitats.

Features

Housing - Heavy-gauge aluminum housing, rectilinear shape, continuously welded seams for weather-tight integrity. Dark bronze polyester powder finish (DDB) standard, other architectural colors available.

Door frame - Natural, anodized, extruded alumi-

Installed

num frame with mitered corners, retained with two hinge pins and secure with one, quarter turn quick release fastener. Integrally designed, extruded silicone gasket provides weather-proof seal between housing and frame.

Lens - Clear glass lens standard, polycarbonate lens available.

Electrical - High-reactance autotransformer, copper wound and 100% factory tested standard.

Listings

UL Listed (standard). CSA Certified (see Options). Suitable for wet locations.

Example: KT1 90L 120 SP04 PER LPI

Ordering Information

Series	Wattage	Voltage
KT1	35L	120
	55L	208 ²
	90L	240 ²
		277
		480 ^{2,3}

NOTES:

- 1 Consult factory for availability in Canada
- 2 Reactor ballast
- SP06, RP06, WW06 must be used when two or more luminaires are oriented on a 90° drilling pattern.

Consult specification sheet for dimensional data.

Mounting

Included SP04 4" square pole arm (std)⁴ SP06 6" square pole arm RP04 4" round pole arm4

RP06 6" round pole arm WB04 4" wall bracket WB06 6" wall bracket

Shipped separately

KMA Mast arm adapter Twin mounting bar

Options/accessories

LPIC Lamp included (deluxe/coated) L/LP Less lamp

NEMA twist-lock receptacle only PER (photocontrol not included)

Polycarbonate lens

LPI Lamp included

Single fuse, 120V, 277V, 347V (n/a TB)

Double fuse, 208V, 240V, 480V (n/a TB)

CR Corrosion-resistant finish

CSA CSA Certified **DGYG** Gray finish

DBL Black finish DWH White finish

Shipped separately

PE1 NEMA twist-lock PE (120V-240V)

PE3 NEMA twist-lock PE (347V) PE4 NEMA twist-lock PE (480V)

PE7 NEMA twist-lock PE (277V)

SC Shorting cap for PER option

Arm Mounted Cutoff Low Pressure Sodium



Intended Use

For parking lots, walkways, building facades, industrial sites and entrances. Designated for intrinsically dark areas, such as those surround observatories and sea turtle habitats.

Features

Housing - Three durable formed housings available depending upon lamp wattage. Dark bronze polyester powder finish (DDB), other architectural colors available. Standard KML does NOT ship with an arm. It is designed for mounting on a 1-1/2" to 2" OD mast arm. If you have other

mounting desires, you must order arms and/or tenons seperately. Consult factory.

Door frame - Hinged captive frame secured by captive screws for ease of maintenance. Full perimeter silicon sponge gasket.

Lens - Clear glass lens standard, polycarbonate lens available.

Electrical – Choice of a reactor high power factor or lag high power factor ballast.

Listings

Standard Product is NOT Listed by UL or CSA.

Ordering Information

Designation		Voltage	
KML 55L	120	347	TB2 ^{1,}
KML 90L	208	480	TB3 ^{1,}
KML 135L	240	TB ^{1,2}	120/2
KML 180L	277	TB1 ^{1,2}	240/1

Ballast options

Reactor high power factor High reactance (lag) high power factor

Example: KML 135L 120 RHP PER PEU LPI

Options/accessories <u>Installed</u> NML NEMA label LPI Lamp included **DGYG** Gray finish LPIC Lamp included (deluxe/coated) **DBL** Black finish Less lamp **DWH** White finish NEMA twist-lock receptacle only Shipped separately³ (photocontrol not included) SC Shorting cap for PER option NEMA twist-lock PE PC Polycarbonate lens

NOTES

- Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- 2 Not Available with RHP
- $Standard\ KML\ does\ NOT\ ship\ with\ an\ arm.\ It\ is\ designed\ for\ mounting\ on\ a\ 1-1/2"\ to\ 2"\ mast\ arm.\ If\ you\ have\ other$ $mounting \ desires, you \ must \ order \ arms \ and/or \ tenons \ separately. \ Consult \ factory.$

Consult specification sheet for dimensional data.

(102)

Intended Use

Roadway Lighting around intrinsically dark areas, such as those surrounding observatories and sea turtle habitats.

Features

Housing - KRP and KP2 are constructed of noncorrosive ABS plastic with UV-inhibiting coating. Gray (DGYG) standard finish. KRX utilizes a vandal-resistant, rugged and corrosive-resistrant die-cast aluminum housing. Standard finish is "unfinished" aluminum.

Lens - Choice of drop acrylic prismatic refractor or drop polycarbonate prismatic refractor.

Electrical – Choice of a reactor high power factor or lag high power factor ballast.

Installation - KRP and KP2 fixtures accept 1.5-2" OD mast arm. Mounting end must have a 6.75" straight section (min.). KRX accepts 1.625-2.375" ODA tenon. Mounting end of tenon must have a 4.5" straight section (min.).

Listings

Standard product is NOT Listed by UL or CSA.

KRP KP2

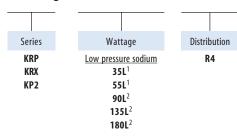


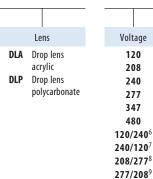


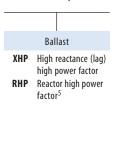


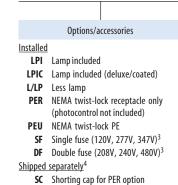
Example: KRP 90L R4 DLA 120 XHP PER LPI

Ordering Information







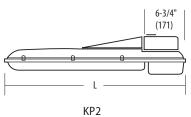


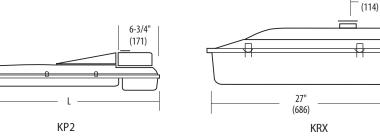
KRP

NOTES:

- 1 Available in KRX only
- 2 Not available in KRX.
- 3 Not available with dual-tap voltages (120/240, 240/120, 208/277, 277/208).
- 4 May be ordered as an accessory
- 5 Available in 480V in KRX (35L and 55L) 480V in 90L in KRP and 480V 135L in KP2 only
- 6 Prewired to 120.
- Prewired to 240.
- 8 Prewired to 208
- 9 Prewired to 277.

Series	Weight (lbs.)	EPA (sq. ft.)
KRP90	51	1.45
KRP135	51	1.45
KRP180	51	1.86
KRX	20	1.00
KP290	31	1.00
KP2135	31	1.20
KP2180	31	1.45





www.lithonia.com, keywords: KRP, KRX and KP2



KDC1 KDC2



Distribution

R2

R3

Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Housing – Durable die-cast aluminum housing for long life. Standard product is designed to mount to pipe mast arm. KDC1 and KDC2 fixtures accept up to 2-3/8" OD mast arm. Direct pole mount arms are available. Consult factory. Dark bronze polyester powder finish (DDB) standard, other architectural colors available.

Lens – Choice of flat tempered glass, sag glass, drop acrylic or drop polycarbonate.

Electrical – Removable ballast tray electrical system for installation and maintenance ease. Not all ballast options are compatible with all wattage/voltage sources. Consult factory.

Listings

UL Listed standard. CSA Certified (see Options).

Voltage

Ordering Information

Wattage High pressure sodium KDC1 70S KDC1 1005 KDC1 **150S** KDC2 2005 KDC2 **250S** KDC2 3105 KDC2 **400S** KDC2 250/4009 400/2505 KDC2 Metal halide KDC1 175M 250M KDC2 KDC2 400M Mercury vapor 175MV 250MV KDC2 400MV

Lens

DLA Drop acrylic prismatic refractor¹

DLP Drop polycarbonate prismatic refractor¹

FL Flat lens, tempered glass (clear)^{2,3}

SLG Sag lens, tempered glass (clear)⁴

120 208 240 277 347 480 TB^{5,6} TB2^{5,6} TB2^{5,6} 120/240¹³ 240/120¹⁴ 240/480¹⁴ 480/240¹⁵ RNP Reactor normal power factor¹
RHP Reactor high power factor¹
50HZ 50 hertz
MRB Mag reg ballast
CWI CWI ballast
CWA Constant wattage autotransformer
XHP High reactance (lag) high power factor¹
XNP High reactance (lag) normal power factor¹

Options/accessories^s Installed LPI Lamp included

Example: KDC1 100S R2 FL 120 RNP PER LPI

L/LP Less lamp
PER NEMA twist-lock receptacle only

(photocontrol not included) **PEU** NEMA twist-lock PE

MA2 2-bolt internal 2" setting
HKP Hinge keeper

OPS Open plug-in starter¹
ENP Encapsulated plug-in starter¹
PSS Protected auto shutoff⁹

T2P Terminal block-two position wired L1, L2

T3P Terminal block-three position wired L1, N, L2

CSA CSA Certified
NML NEMA label

HSS Stainless steel external hardware

LSA Single lighting surge arrestor¹⁰

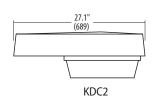
SF Single fuse, 120V, 277V, 347V (n/a TB)¹¹

DF Double fuse, 208V, 240V, 480V (n/a TB)¹¹

DBL Black finish
DGYG Gray finish
DWH White finish

Shipped separately¹²
SC Shorting cap for PER option

(584) KDC1



NOTES:

- 1 HPS only
- $2 \hspace{0.5cm} \textit{N/A} \hspace{0.5cm} \textit{with 250M, 400M, 250MV} \hspace{0.5cm} \textit{or 400MV} \hspace{0.5cm} \textit{when ordered in the R3 distribution}.$
- $3\quad Requires use of ED28 lamp in order to accommodate R2\,FL in 400M and 400MV.$
- $4 \quad \text{N/A with 250M, 400M, 250MV or 400MV when ordered in the R2 distribution}.$
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- 6 N/A with RNP or RHP
- 7 Notall ballast options are available with all wattage/voltage sources. Consult factory.
- 8 KDC1 and KDC2 do NOT ship with an arm. These products are designed for mounting on a pipemast arm (1.25" internal fitter). For other mounting requirements, consult factory.
- $9 \quad Limited \, availability, consult factory. \\$
- 10 120, 277V on I, n/a TB.
- 11 Voids UL/CSA Listing, n/a dual-tap voltages (120/240V, 240/120V, 240/480V or 480/240V.)
- 12 May be ordered as an accessory.
- B Prewired to 120V.
- 14 Prewired to 240V.
- 15 Prewired to 480V.

	Weight	EPA
Series	(lbs.)	(sq. ft.)
KDC1, refractor	30	1.4
KDC1, flat lens	30	1.1
KDC2, flat lens	45	2.1
KDC2, drop lens	45	2.4



For roadways, residential streets, parking lots, walkways and parks.

Features

Housing - Innovative docking system provides modular installation and interchangeability for easy maintenance. Rugged die-cast, powdercoated docking station mounts securely to mastarm to ensure secure wiring and long-lasting stability. Durable lightweight fixture positively docks by plugging in with a 20° locking twist. Cam-latch door frame allows easy re-lamping without tools on the TDS2 fixture, while die-cast trigger latch on the door frame of the TDS3 fixture enables easy and secure one-hand opening for re-lamping and maintenance. Wildlife shield is cast into the docking station (not a separate piece) and easily is adjustable for 1.25" to 2" mast arms. Gray finish standard.

Lens - Choice of flat tempered glass, sag glass,

drop acrylic or drop polycarbonate. Optical chamber is IP64 rated.

Electrical - Not all ballast options are compatible with all wattage/voltage sources. Consult factory.

Listings

UL Listed (standard). CSA Certified (see Options).

TDS2



Ordering Information

Desig	jnation	Distributio
High press	sure sodium	R2
TDS2	30S	R3
TDS2	50S	
TDS2	70S	
TDS2	1005	
TDS2	150S	
TDS3	200S	
TDS3	250S	
TDS3	310S	
TDS3	400S	
	250/400S	
	400/2505	
	<u>l halide</u>	
TDS2	175M ¹	
TDS3	175M	
TDS3	250M	
	400M	
TDS3	250/400M	
TDS3	400/250M	
	ry vapor	
TDS2	100MV ¹	
TDS2	175MV	
TDS3	175MV	
TDS3	250MV	

	Weight	EPA
Series	(lbs.)	(sq. ft.)
TDS2, flat lens	14	.56
TDS2	14	.70
TDS3, flat lens	30	1.24
TDS3	30	1.43

	Lens	Voltage
DLA	Drop acrylic prismatic refractor ^{2,3}	120 208
DLP	Drop polycarbonate prismatic refractor ²	240 277
FL	Flat lens, tempered glass (clear) ⁴	480 TB ^{6,7}
SLG	Sag lens, tempered glass (clear) ⁵	TB1 ^{6,7}
		TB3 ^{6,7}
		120/240 ¹ 240/120 ¹
		240/480 ¹
		480/2401

	1	
	Ballast ⁸	
RNP	Reactor normal power factor ⁹	
RHP	Reactor high power fa	
50HZ	50 hertz	
MRB	Mag reg ballast	
CWI	CWI ballast	
CWA	Constant wattage autotransformer	
XHP	High reactance (lag) hi power factor ⁹	
XNP	High reactance (lag) normal power factor ⁹	
L/E	Less electrical ¹⁰	

Ballast ⁸		Options/accessories
Reactor normal power factor ⁹ Reactor high power factor ⁹ 50 hertz Mag reg ballast CWI ballast Constant wattage autotransformer High reactance (lag) high power factor ⁹ High reactance (lag) normal power factor ⁹	L/DL Lamp L/LP Less I PER NEMA (phot PEU NEMA MA2 2-bol L/DLD Less of IS Vertic DPL Distril	included included, coated
Less electrical ¹⁰	HSS Stainl Shipped separa	less steel external hardware <u>tely¹¹</u>

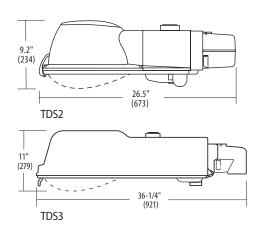
NOTES:

- 1 Available with DLP lens only.
- 2 N/A with TDS3.
- 3 N/A with 150S, 175M and 175MV.
- 4 N/A with 175Mor 175MV in TDS2.
- 5 N/A with TDS2.
- 6 Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277 V. Others are 1=120V;2=208V;3=240V
- 8 Not all ballast options are available with all wattage/voltage sources. Consult
- 9 HPS only.
- 10 Shipped without ballast/electrical components.
- 11 May be ordered as an accessory.
- 12 Prewired to 120V.
- 12 Prewired to 240V.
- 14 Prewired to 480V.



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

May depend on optical selection. Consult factory



SC Shorting cap for PER option



TDS3

400MV

CHE

Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, campuses and parks.

Features

Construction – Stainless steel latch permits easy opening with one hand for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Twist-lock photocontrol receptacle NOT included as standard. (To order, specify **PER option, see below.)** Integral wildlife shield.

Finish - Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System - Ovate refractors in a variety of materials or flat tempered glass full cutoff lens provides a choice of efficient light distributions for every application. Optics are computer designed for maximum performance.

Electrical System - Reactor, normal power factor ballast standard. High power factor available (see Options). Two or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation - Two-bolt mast arm mount. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

Listings

IP32 rated housing and IP54 rated optical assembly is standard. Standard product is NOT Listed by UL, CSA or NOM. For specific Listing requirements, consult factory.

Ordering Information

Series	Wattage
CHE	High pressure sodium 35S ¹ 50S
	70\$
	100S
	150\$

NEMA distribution R2 R3

Lens **DLG** Drop lens glass (std.) **DLA** Drop lens acrylic² Drop lens polycarbonate² Flat tempered glass lens, full cutoff

Voltage (blank) 120

L/E L/E³

Ballast options (blank) Reactor normal

> (std.) RHP Reactor high power factor ballast

power factor ballast

Installed LPI Lamp included L/LP Less lamn

Example: CHE 100S R2 DLG 120 PER LPI

NEMA twist-lock receptacle only (photocontrol not included) NEMA twist-lock PE PFII

Options

Distribution pattern label

Terminal block - two position T2P wired L1, L2

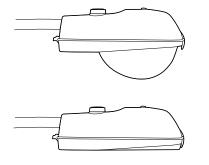
Stainless steel external hardware

Shipped separately⁴

SC Shorting cap for PER option

NOTES:

- 1 Not available with RHP.
- 2 Available with R2 distribution only
- Shipped without ballast/electrical components.
- 4 May be ordered as an accessory.



Dimensions are shown in inches (centimeters) and pounds (kilograms) unless otherwise noted

Flat lens EPA: .61ft2(.057m2) Drop lens EPA: .77 ft2 (.072 m2) 21(53.3) Length: Width: 12-7/8(32.7) Flat lens depth: 6-7/8(12.5) 10-1/2 (26.7) Drop lens depth: Weight: 12(5.4)



www.lithonia.com, keyword: CHE

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction – Die-cast trigger latch on lower housing permits easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.) CHLD units: all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray (DGYG) polyester powder paint finish is electrostatically applied for superior

corrosion resistance.

Optical System – Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every application. Optics are computer designed for maximum performance. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System – Lag, high power factor (HPS) or constant wattage autotransformer (MH and MV) standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Two-bolt mast arm mount with integral stepped leveling system provides secure mounting and easy leveling. Arm is compatible with 1.25"-2.0" (3.2 cm - 5.1 cm) mast arm. Four bolt mast arm mount available.

Listings

IP64 rated optical assembly. Standard product is NOT Listed by UL, CSA or NOM. For UL or CSA (see Options).

CHLD



Example: CHL 150S R2 DLG 120 PER LPI

Ordering Information

Series	Wattage	Distribution		Lens	Voltage
CHL CHLD	High pressure sodium 50S 70S 100S 150S 250S 100/150S 150/100S Metal halide 175M 250M Mercury vapor 175MV 250MV	R2 R3	DLG DLA DLP FL FLX SLG	Drop lens glass (prismatic) Drop lens acrylic (prismatic) ¹ Drop lens polycarbonate (prismatic) ² Flat lens, tempered glass (clear) ³ Flat lens, tempered glass, high performance (clear) ^{4,5} SAG lens, tempered glass (clear) ⁵	120 208 220 240 277 480 1B ^{6,7} 1B1 ^{6,7} 1B2 ^{6,7} 120/240 ⁸ 240/120 ⁹ 240/480 ⁹ 480/240 ¹⁰ L/E ¹¹

age	
0	(blank)
8	RNP
0	RHP
0	50HZ
7	MRB
0	CWI
5,7	CWA
6,7	
6,7	XHP
6,7	
240 ⁸	XNP
1 20 9	
180 ⁹	
40 ¹⁰	
11	

Ballast¹²
(blank) Standard ballast (see above)
RNP Reactor normal power factor⁴
RHP Reactor high power factor⁴
50HZ 50 hertz
MRB Mag reg ballast
CWI CWI ballast
CWA Constant wattage
autotransformer
XHP High reactance (lag) high
power factor⁴
XNP High reactance (lag) normal
power factor⁴

	Options
Installed	
LPI	Lamp included
LPIC	Lamp included (deluxe/coated)
L/LP	Less lamp
PER	NEMA twist-lock receptacle only (photocontrol not included)
PEU	NEMA twist-lock PE
CF	Charcoal filter
BLV	Bubble level
4B4BM	4-bolt mounting
2EF	External fitter (2-bolt only)
MA2	2-bolt internal 2" pipe setting
OPS	Open plug-in starter ⁴

DPL Distribution pattern label
T2P Terminal block-two position wired L1, L2
Table 1 Terminal block two position wired L1, L2

ENP Encapsulated plug-in starter⁴

T3P Terminal block-two position wired L1, N, L2
UL UL Listed

CSA CSA Certified

HHSS Stainless steel external hardware
LSA Single lighting surge arrestor 13

Single fuse, 120V, 277V, 347V (n/a TB)^{13,14} **DF** Double fuse, 208V, 220V, 240V, 480V (n/a TB)^{14,15}

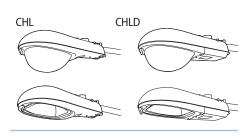
DDB Dark bronze finish
DBL Black finish

Shipped separately¹⁶
SC Shorting cap for PER option

Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted. Dimensions do not include mounting arm

therwise noted. Dilli	chisions do not mici	uuc mounting
	<u>CHL</u>	<u>CHLD</u>
Flat lens EPA:	$.74\text{ft}^2(.07\text{m}^2)$.74ft² (.07 m²
Drop lens EPA:	$.90 \text{ft}^2 (.08 \text{m}^2)$.90 ft ² (.08 m ²
Flat lens depth:	6-1/2(16.5)	6-1/2(16.5)
Drop lens depth:	10-1/8 (25.7)	10-1/8(25.7)
Length:	27(66.6)	27 (66.6)
Width:	13 (33.0)	13 (33.0)
Weight:	29(13.2)	33 (15.0)

www.lithonia.com, keyword: CHL and CHLD





NOTES:

1 150S 175M 175MV max

5 Not available with 2005 or 2505.

1=120V:2=208V:3=240V

11 Shipped without ballast/electrical components.

N/A with RNP or RHP.

8 Prewired to 120V.

9 Prewired to 240V

factory.
 120,277Vonly, n/aTB.
 Notavailablewith UL or CSA options.
 208,220,240,480Vonly, n/aTB.
 May be ordered as an accessory.

3 HPS-150 watt max. with R3; MH or MV must use deluxe/coated lamp (LPIC).

Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are

12 Not all ballast options are available with all wattage/sources/voltages, consult

2 N/A with 400S

4 HPS only

CHM **CHMD**



Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction - Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathingseal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.) CHMD units: all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish - Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System - Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every application. Optics are computer designed for maximum performance. One-piece screw shell socket for positive retention of lamp under vibration.

Electrical System – Lag, high power factor or constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation - Four-bolt mast arm mount - the most secure mounting in the industry. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

Listings

IP64 rated optical assembly. Standard product is NOT Listed by UL, CSA or NOM. For UL or CSA (see Options).

Ordering Information

Series	Wattage	NEMA distribution		Lens	Voltage		Ballast ¹²
CHMD	High pressure sodium 2005	R2 R3	DLG	Drop lens glass (prismatic) ²	120 208	(blank)	Standard ballast (see above)
	250S 310S	R4 ¹	DLP	Drop lens polycarbonate	220 240	RNP	Reactor normal power factor ⁴
	250/4005		FI	(prismatic) Flat lens, tempered	277	RHP	Reactor high power factor ⁴
	400/250S 400S			glass (clear) ³	480 TB ^{6,7}	50HZ	50 hertz
	Metal halide		FLX	Flat lens, tempered glass, high	TB1 ^{6,7}	MRB CWI	Mag reg ballast CWI ballast
	175M 250M			performance (clear) ⁴	TB2 ^{6,7} TB3 ^{6,7}	CWA	Constant wattage
	250/400M		SLG	SAG lens, tempered glass (clear) ⁵	120/240 ⁸	XHP	autotransformer High reactance (lag)
	400/250M 320M				240/120 ⁹ 240/480 ⁹	AIII	high power factor ⁴
	350M				480/240 ¹⁰	XNP	High reactance (lag) normal power factor ⁴
	400M Mercury vapor				L/E ¹¹	SCWA	Super CWA pulse start ¹³
	175MV						
	250MV 400MV			NOTES:			
	400MV			1 Available only in HP			
				 Not available with 17 bution. 	'5M, 250M, 175MV or	250MV when	ordered in the R2 distri-
				3 Not available with 40	00M or 400MV.		
				4 HPS only.5 Not available with 17:	5M, 250M, 175MV or 2	250MV.	
				6 Optional multi-tap ba 1=120V;2=208V;3=		277). TB prew	ired to 277V. Others are
				7 Not available with R	NP or RHP.		
CHM	4	611145		8 Prewired to 120V.9 Prewired to 240V.			Di
СПІ	<i>'</i> ''	CHMD		10 Prewired to 480V.			le
			r de la companya de l	11 Shipped without ba12 Not all ballast option			ırces/voltages. Consult
100			r	factory. 13 Pulse start MH only.			
<u>م</u> ـ			_	14 120,277V only, n/a 1			
00			*	15 Not available with UI 16 208, 220, 240, 480 V o			
_				, . , . , ,	** ** **		

Example: CHM 400S R2 DLG 120 PER LPI

	Options/accessories
Installed	
LPI	Lamp included
LPIC	Lamp included (deluxe/coated)
L/LP	Less lamp
PER	NEMA twist-lock receptacle only (photocontrol not
	included)
PEU	NEMA twist-lock PE
CF	Charcoal filter
BLV	Bubble level
2BM	
OPS	Open plug-in starter ⁴
ENP	Encapsulated plug-in starter ⁴
DPL	Distribution pattern label
T2P	Terminal block-two position wired L1, L2
T3P	Terminal block-three position wired L1, N, L2
UL	UL Listed
CSA	CSA Certified
HHSS	Starriess Steel Caternal Haraware
LSA	
SF	Single fuse, 120V, 277V, 347V (n/a TB) ^{14,15}
DF	Double fuse, 208V, 220V, 240V, 480V (n/a TB) ^{15,16}
DDB	Dark bronze finish
DBL	Did Chillian
Shipped	separately ¹⁷
SC	Shorting cap for PER option

Dimensions are shown in inches (centimeters) and pounds (kilograms) un $less \, otherwise \, noted. \, Dimensions \, do \, not \, include \, mounting \, arm.$

	<u>CHM</u>	<u>CHMD</u>
Flat lens EPA:	1.14ft ² (.11m ²)	1.14ft² (.11m²)
Drop lens EPA:	1.3 ft ² (.12 m ²)	1.3ft^2 ($.12\text{m}^2$)
Flat lens depth:	7-1/2(19.1)	7-1/2(19.1)
Drop lens depth:	14(35.6)	14(35.6)
Length:	31-1/2 (80.0)	31-1/2 (80.0)
Width:	14-3/4(37.5)	14-3/4(37.5)
Weight:	41(18.6)	45(20.4)



17 May be ordered as an accessory.

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

Features

Construction - Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathingseal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.)

Finish - Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System - Ovate refractor/reflector optics provide a uniform distribution pattern with superior luminaire-to-pole spacing. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System - Constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation - Four-bolt mast arm mount - the most secure mounting in the industry. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

Listings

Standard product is NOT Listed by UL, CSA or NOM.





Example: CHX 400S R2 DLG 120 PER LPI

Wattage Series

Ordering Information

CHX

<u>High pressure sodium</u> 3105 **400S** 10005 Metal halide 1000M Mercury vapor 700MV

1000MV

NEMA distribution $R2^1$ R3

Lens **DLG** Drop lens glass (std.)

208 240 220 277 480 **TB**² **TB1**² **TB2**² **TB3**² 120/240³ 240/120⁴ 240/480⁴

480/240⁵

L/E⁶

Voltage

120

Ballast options7 (blank) Standard CWA

CWI CWI ballast SCWA SCWA pulse start⁸ MRB Mag reg ballast (3 coil)

<u>Installed</u> LPI Lamp included

L/LP Less lamp NEMA twist-lock receptacle only PER (photocontrol not included)

Options/accessories

NEMA twist-lock PE

Bubble level BLV

DPL Distribution pattern label

Terminal block-two position wired T₂P L1, L2

T3P Terminal block-three position wired 11. N. 12

HHSS Stainless steel external hardware

Single lighting surge arrestor9 LSA

Single 5-amp fuse9

DF Double 5-amp fuse¹⁰

DDB Dark bronze finish DBL Black finish

Shipped separately¹¹

SC Shorting cap for PER option

NOTES:

- 1. Not available in 1000 HPS
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are:1=120V.2=208V.3=240V
- 3 Prewired to 120V
- 4 Prewired to 240V.
- 5 Prewired to 480V.
- 6 Shipped without ballast/electrical components.
- 7 Not all ballasts are available with all wattages/sources/voltages, consult factory
- 8 Pulse start in MH only.
- 9 Available in 120V and 277V only.
- 10 Available in 208, 220, 240 and 480 V only

11 May be ordered as an accessory.

Dimensions are shown in inches (centimeters) and pounds (kilograms) un $less \, otherwise \, noted. \, Dimensions \, do \, not \, include \, mounting \, arm.$

1.96ft2(.18m2) 16-1/4(41.3) Depth: 38-3/8(97.5) Length: Width: 17-1/2(44.5) Weight: 76(34.5)





TMM



Distribution

 $R3^2$

Intended Use

For interstate roadways, commercial and residential roadways and large parking areas.

Features

Housing - Durable die-cast aluminum housing for long life. Adjustable and locking knuckle mount provides for precise and secure aiming of the luminaire. TMM fixtures accept up to 3" OD mast arm. Latch-on lens frame enables easy and secure one-handed opening for re-lamping. Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Lens – Drop acrylic prismatic refractor.

Voltage

120

208

240

277

347

480

 TB^3

TB1³

TB2³

TB3³

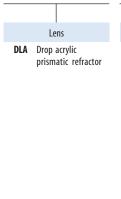
Electrical - Not all ballast options are compatible with all wattages/voltages/sources. Consult factory.

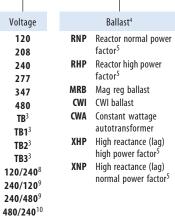
Listings

Standard product is NOT UL Listed for US and Canadian safety standards.

Ordering Information

Series Wattage TMM High pressure sodium **200S 250S** 310S 400S 250/400S 400/250S Metal halide 250M 400M¹ Mercury vapor 250MV 400MV





Options/accessories Installed Lamp included LPI Lamp included, coated LPIC L/LP Less lamp PER NEMA twist-lock receptacle only (photocontrol not included) PEU NEMA twist-lock PE HKP Hinge keeper Open plug-in starter⁵ OPS Encapsulated plug-in starter⁵ **ENP** NML NEMA label T2P Terminal block-two position wired L1, L2 T3P Terminal block-three position wired L1, N, L2 Single lighting surge arrestor (n/a TB)⁶ LSA Single fuse, 120V, 277V, 347V (n/a TB)⁶ DF Double fuse, 208V, 240V, 480V (n/a TB)6 DPL Distribution pattern indicator label Stainless steel external hardware HSS DBL Black finish DGYG Grav finish DWH White finsih

Example: TMM 250M R3 DLA TB1 CWA PER LPI

NOTES:

1 Requires reduced jacket ED-28 lamp.

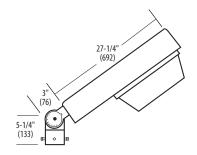
Shipped separately⁷

- 2 Distribution depends on tilt angle of fixture.
- Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V;2=208V;3=240V.

SC Shorting cap for PER option

- $4\quad Not all \, ball as toptions \, are \, available \, with \, all \, wattage/voltage/sources. Consult$ factory.
- 5 HPS only.
- Not available with dual tap voltages (120/240, 240/120, 240/480, 480/240).
- May be ordered as an accessory.
- Prewired to 120.
- Prewired to 240.
- 10 Prewired to 480.

	Weight	EPA
Series	(lbs.)	(sq. ft.)
TMM	42	2.8



Dimensions are shown in inches (centimeters) unless otherwise noted.



For interstate roadways, commercial and residential roadways and large parking areas.

Features

Housing – Rugged die-cast aluminum housing is powder-coated for durability and corrosion resistance. Door is hinged and easily removable for quick maintenance. Easy single fastener closure for fast re-lamping and optional tool-less access available. Adjustable and locking knuckle mount (tenon slipfitter) comes standard and provides for precise and secure aiming of the luminaire. TDR fixtures accept up to 3" OD tenon. Other mounting arrangements available (see Options). Gray polyester powder finish (DGYG) standard; other architectural colors available.

Lens – Drop or flat clear tempered glass lens available.

Electrical – Not all ballast options are compatible with all wattages/voltages/sources. Consult factory.

Listings

UL Listed (standard). CSA Certified (see Options).





Ordering Information

Series Distribution Wattage TDR $R3^1$ High pressure sodium **200S 250S** 3105 400S 250/400\$ 400/2505 Metal halide 175M 250M 400M 250/400M 400/250M Mercury vapor 175MV 250MV

400MV

FL Flat lens, tempered glass (clear) SLG Sag lens, tempered glass (clear) Voltage

120
208
240
277
347
480
TB²
TB1²
TB2²
TB3²
120/240⁷
240/120⁸
240/480⁸
480/240⁹

Ballast³ RNP Reactor normal power factor4 RHP Reactor high power MRB Mag reg ballast CWI CWI ballast CWA Constant wattage autotransformer Super constant wattage autotransformer XHP High reactance (lag) high power factor5 XNP High reactance (lag) normal powerfactor5

Example: TDR 250S R3 FL TB1 CWA PER LPI

Options/accessories				
Installed				
LPI	Lamp included			
LPIC	Lamp included, coated			
L/LP	Less lamp			
PER	NEMA twist-lock receptacle only (photocontrol not included)			
PEU	NEMA twist-lock PE			
GYK	Yoke galvanized			
YK	Yoke painted			
	· · ·			

HKP Hinge keeper
 OPS Open plug-in starter⁵
 ENP Encapsulated plug-in starter⁵

CSA CSA Certified

NML NEMA label

T2P Terminal block-two position wired L1, L2
T3P Terminal block-three position wired L1, N, L2
LSA Single lighting surge arrestor (n/a TB)⁵

SF Single fuse, 120V, 277V, 347V (n/a TB)⁵

DF Double fuse, 208V, 240V, 480V (n/a TB)⁵ **PD** Power door (ballast tray)

DPL Distribution pattern indicator labelHSS Stainless steel external hardware

DBL Black finish
DGYG Gray finish
DWH White finsih

TLS Tool-less entry

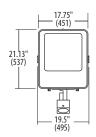
Shipped separately⁶

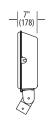
SC Shorting cap for PER option

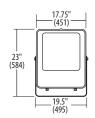
NOTES:

- 1 Distribution depends on tilt angle of fixture.
- $\label{eq:continuity} 2 \quad \text{Optional multi-tap ballast} (120V, 208V, 240V, 277V). TB \ prewired to 277V. Others \\ \text{are} \ 1=120V; 2=208V; 3=240V.$
- 3 Not all ballast options are available with all wattage/voltage/sources, consult factory.
- 4 HPS only.
- $5 \quad \text{Not available with dual tap voltages (120/240V, 240/120V, 240/480V, 480/240V)}.$
- 6 May be ordered as an accessory.
- 7 Prewired to 120.
- 8 Prewired to 240
- 9 Prewired to 480.

	Weight	EPA
Series	(lbs.)	(sq. ft.)
TDR	37	2.75









 $Dimensions \, are \, shown \, in \, \textbf{inches} \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, and \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, in \, \textbf{(centimeters)} \, unless \, otherwise \, noted \, are \, shown \, are$

www.lithonia.com, keyword: TDR



TDD



Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic refractor provides uniform symmetrical Type V distribution, mogulbased socket.

Installation – 1-1/4" (0D) mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton (24" mounting arm).

Listings

UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations (25°C ambient temperature).



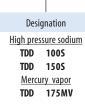
Express delivery products.

See page11 for details about LightQuick XD.

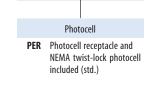
Description

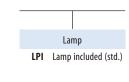
TDD 175MV 120 PER LPI M2

Ordering Information









Example: TDD 175MV 120 PER LPI

Accessories		(Order separately)
PE1	Replacement photocell	
RK1 TDDLENS	Replacement lens	

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 0.8ft²(0.07m²)
Height: 17(43.18)
Width: 12(30.48)
Depth: 12(30.48)
Max.weight: 12lbs (5.44kq)

TDL



Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Fluted aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic acrylic refractor provides uniform symmetrical Type V distribution. Glass for 250MV.

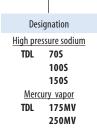
Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photo-

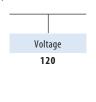
cell and lamp are included in carton. (18"-24" mounting arm depending on wattage).

Listings

150S and below and 175MV and below are UL Listed for wet locations. For CSA or NOM requirements, consult factory.

Ordering Information





Options

Installed

PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)

Fixture, optical and receptacle only in box

L/PKG

Example: TDL 175MV 120 PKG

Dimensions are shown in **inches (centimeters)** unless otherwise noted. $EPA: \qquad 0.8ft^2(0.07m^2)$

Height: 15-1/2(39.4) Width: 12(30.48) Depth: 12(30.48) Max.weight: 18lbs (8.16kg)



For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and openbottom refractor for easy maintenance and lamp replacement. Optical assembly attaches via two tool-less toggle latches. Prismatic acrylic refractor provides uniform symmetrical Type V distribution. Glass for 250MV. Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (24" mounting arm).

Listings

Standard product is NOT Listed by UL, CSA or NOM, consult factory.

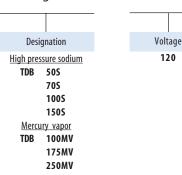
TDB



Example: TDB 175MV 120 PKG

Accessories	(Order separately)
RK1 TDRI FNS RSA A1250R	Renlacement lens

Ordering Information



Options/accessories

Installed

PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)

L/PKG Fixture, optical and receptacle only in box

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 0.8 ft² (0.07m²) Height: 15-1/2(39.4) Width: 12(30.48) Depth: 12(30.48) Max.weight: 15 lbs (6.8 kg)

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Spun anodized aluminum reflector delivers IES Type V full-cutoff distributions. Open bottom housing provides easy maintenance and lamp replacement.

Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Pho-

tocell and lamp are included in carton. (24" mounting arm).

Listings

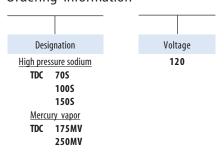
Standard product is NOT Listed by UL, CSA or NOM, consult factory.

TDC



Example: TDC 175MV 120 PKG

Ordering Information



Options

Installed
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)

L/PKG Fixture, optical and receptacle only in box

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 1.2ft²(0.11m²)
Height: 17(43.18)
Width: 12(30.48)
Depth: 12(30.48)
Max.weight: 12lbs (5.44kg)





Intended Use

Rural areas, small businesses, storage lots, security lighting, roadway lighting and general area lighting.

Features

Housing - Durable die-cast aluminum ballast housing. Mounts to 1.25" mast arm only.

Lens – Drop acrylic, drop polycarbonate, flat glass lens available. Also available less lens.

Electrical – Not all ballast options are available with all wattages/voltages/sources, consult factory.

Listings

Example: TDX 150S R1 120 RNP PER LPI

Options/accessories

PKG Package includes photocontrol, lamp, 24" welded

arm, 1.25" diameter, 5'

supply wire **HSS** Stainless steel

> external hardware

PER option

Shipped separately⁴ SC Shorting cap for

Standard products in NOT by UL or CSA.

Ordering Information

Series	Wattage	Distribution	Voltage	Ballast ²	Options/acc
TDX	High pressure sodium 505 705 1005 1505 100/1505 150/1005 Metal halide	Lens (blank) No lens DLA Drop acrylic len DLP Drop polycarbon ate lens	277	RNP Reactor normal power factor ³ RHP Reactor high power factor ³ CWA Constant wattage autotransformer XHP High reactance (lag) high power factor ³ XNP High reactance (lag) normal power factor ³	Installed LPI Lamp included LPIC Lamp included, coated L/LP Less lamp PER NEMA twist-lock receptacle only (photocontrol not
	175M Mercury vapor 175MV	FL Flat glass lens	TB ¹ TB1 ¹ TB2 ¹ TB3 ¹	NOTES: 1 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.	included) PEU NEMA twist-lock PE NML NEMA label T2P Terminal block two-
	eshown in in-thes (centimet EPA: 0.7 ft²(0.07m²) Height: 7-27/32(19.9) Width: 12-3/32(30.7) Depth: 23-1/16(58.6) ix.weight: 12lbs (5.4 kg)	ers) unless otherwise noted.	120/240 ⁵ 240/120 ⁶	 Not all ballast options are available with all wattages/ sources/voltages, consult factory. HPS only. May be ordered as an accessory. Prewired to 120V. Prewired to 240V. 	position wired L1, L2 T3P Terminal block three- position wired L1, N, L2



Intended Use

Parking lots, roadways, commercial environments and office communities.

Features

Housing - One piece die-cast aluminum head and arm configuration for long-life stability and performance. Optical assembly utilizes dual latch mounting for quick, easy and secure installation. Gray polyester powder finish (DGYG) standard.

Lens - Refractors available in open-bottom acrylic, polycarbonate and glass.

Electrical - Electrical components mounted to power door for installation and maintenance convenience. Not all ballast options are available with all wattages/voltages/sources, consult factory.

Listings

UL Listed (standard). CSA Certified (see Options).

Example: TDA 705 R5 A1250B 120 RNP PER LPI

Ordering Information

Series Wattage Distribution Lens Voltage Ballast⁴ Options/accessories TDA High pressure sodium Metal halide R1 A1250B Open bottom acrylic 120 RNP Reactor normal **Installed** refractor power factor5 LPI Lamp included 175M R2 208 **50S** 250M R3 P1250B Open bottom Reactor high power LPIC Lamp included, coated 220 **70S** polycarbonate factor5 R4 230 Less lamp 1005 400M L/LP refractor1 MRB Mag reg ballast NEMA twist-lock receptacle only R5 **150S** 250/400M 240 G1250B Open bottom glass CWI ballast CWI 277 (photocontrol not included) 2005 400/250M RX refractor2 **CWA** Constant wattage NEMA twist-lock PE **250S** Mercury vapor 347 NOTES: autotransformer ENP Encapsulated plug-in starter⁵ **310S** 480 100MV Not available with RX distribution. SCWA Super constant TB^3 CSA CSA Certified **400S** 175MV Not available with R4 distribution. wattage Terminal block-two-position wired L1, L2⁶ Optional multi-tap ballast (120, 208, 240, 277). TB T2P 250/400S 250MV TB1³ autotransformer prewired to 277V. Others are 1=120V; 2=208V; 3=240V. T3P Terminal block-three-position wired L1, N, 400/250S 400MV TB23 High reactance Not all ballast options are available with all wattages/ $L2^6$ **TB3**³ (lag) high power sources/voltages, consult factory. Terminal block⁶ 120/2408 Dimensions are shown in **inches (centimeters)** unless otherwise noted. 5 **HPS only** factor5 Single fuse, 120V, 277V, 347V (n/a TB)^{6,7} 240/120⁹ EPA: 2.9 ft2(0.88m2) 6 Voids UL Listing (n/a CSA). High reactance Double fuse, 208V, 240V, 480V (n/a TB)^{6,7} Not available with dual-tap voltages (120/240, 240/120,240/480⁹ 13-1/2(34.3) Height: (lag) normal Stainless steel external hardware 240/480,480/240). HSS 480/240¹⁰ Width: 12(30.48) power factor⁵ Prewired to 120V TLS Tool-less entry 37 (94) Depth: 9 Prewired to 240V Max. weight: 35 lbs (15.9kg) 10 Prewired to 480V

For walkways, plazas or pedestrian areas.

Features

Housing – Bottom housing is 0.188" extruded aluminum. Decorative Aeris™ top cover is sand-cast with 0.188"minimum wall thickness. 42" overall height standard. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. Exposed hardware is tamperresistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4-1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze textured (DDBT) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector available.

Electrical – Ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Mediumbase porcelain socket, 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Voltage

120

208

240

277

347

 TB^3

ASB

Aeris™



Example: ASBY 50S R5 120 CR LPI

Ordering Information

Series
ASBX
ASBY
ASBZ

Wattage
Low pressure sodium
50S
70S
100S
150S
Metal halide
70M¹
100M¹
Incandescent

12

Reflector

<u>Standard flared cone</u> **R5** Type V distribution



Optional cylindrical reflector

CYA Specular alzak
CYB Black alzak
CYG Gold alzak

CYG GOID AIZAN



Options <u>Installed</u>

LPI Lamp included L/LP Less lamp

SF Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

CR Enhanced corrosion resistance

H24 24" overall height

H30 30" overall height

H36 36" overall heightFD Festoon outlet

FG Festoon outlet with duplex ground fault receptacle⁴

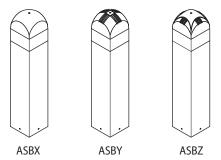
CSA CSA Certified

NOTES:

- 1 Requires coated lamp.
- 2 120V only.150W max., lamp not provided.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Coverships separately.

$Dimensions are shown in {\it inches (centimeters)} unless otherwise noted.$

	<u>ASBX</u>	<u>ASBY</u>	<u>ASBZ</u>
Square:	8(20.3)	8(20.3)	8(20.3)
Height:	42(106.7)	42(106.7)	42(106.7)
Max.weight:	43.2lbs (19.6kg)	43.2 lbs (19.6kg)	43.2 lbs (19.6kg)





KBC KBR



Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing - KB_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB_8: Bottom housing is 0.156" extruded aluminum 42" overall height standard. Flush-fitting lens is 1/2", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4-1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics - Reflector system incorporates an anodized, spun aluminum, flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector or cast-aluminum louvers are available.

Electrical – All ballasts copper wound and 100% factory tested. Electrical components unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Mediumbase porcelain socket, 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Ordering Information

Designation 6" Bollards High pressure sodium KB_6 35S¹ KB_6 50S

KB_6 70S Metal halide KB_6 50M² KB_6 70M²

<u>Incandescent</u> KB 6 I^{1,3}

8" Bollards

High pressure sodium KB_8 50S

KB_8 70S KB_8 1005 KB 8 150S

Metal halide KB_8 70M²

KB_8 100M² KB 8 175M^{2,4}

<u>Incandescent</u> KB 8 I^{1,5}

Compact fluorescent⁴ KB_8 22DTT

KB_8

KB_8 28DTT 26TRT KB 8

32TRT

Reflector

Standard flared cone **R5** Type V distribution



Optional cylindrical reflector

CYA Specular alzak CYB Black alzak

CYG Gold alzak



Louver (8" only) **LV** Louvers



Options/accessories

Installed LPI Lamp included (n/a with incandescent)

> L/LP Less lamp

Voltage

120

208⁹

240⁹

277

347

TB⁶

Single fuse, 120V, 277V, 347V SF

Double fuse, 208V, 240V

Enhanced corrosion resistance CR

H24 24" overall height

H30 30" overall height

H36 36" overall height FD Festoon outlet

Festoon outlet with duplex ground fault receptacle⁷

CSA CSA Certified

 $For optional architectural colors, see \,page \,543.$

Shipped separately

R6S Half-shield (6" round)

R85 Half-shield (8" round)

Example: KBR8 100M R5 120 CR LPI

NOTES:

- 1 120V only.
- Use coated lamp.
- 3 116W/TS, lamp not included
- Louver must be used.
- 150W max., lamp not included
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 Coverships separately.
- Not available with LV option, available in 6" units only.
- Consult factory for availability in Canada.

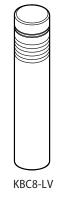
$Dimensions \ are \ shown \ in \ \textbf{inches} \ (\textbf{centimeters}) \ unless \ otherwise \ noted.$

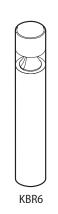
KBC6&KBR6 8(20.3) Diameter: 6(15.2) Height:* 42(106.7) 42(1067) 34.9 lbs (15.9 kg) 34.9 lbs (15.9 kg) Max.weight:

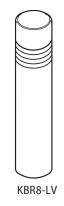
* Also available in 24" (H24), 30" (H30) and 36" (H36).

A LITHONIA LIGHTING









For walkways, plazas or pedestrian areas.

Features

Housing – Bottom housing is 0.188" extruded aluminum. Top cover is a weldment of 0.188" aluminum extrusion and 0.250" aluminum plate. 42" overall height standard. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. Exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosionresistant polyester powder finish standard; other architectural colors available. Architectural Class I dark bronze anodized finish also available on KBS8.

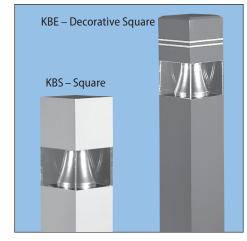
Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector available.

Electrical – Ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Mediumbase porcelain socket, 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

KBS KBE



Example: KBS6 35S R5 120 CR LPI

Ordering Information

Designation

6" Bollards

High pressure sodium
KB_6 35S¹
KB_6 50S

KB_6 70S Metal halide

KB_6 50M² KB_6 70M²

Incandescent

KB_6 8" Bollards

High pressure sodium

KB_8 50S KB_8 70S KB_8 100S

KB_8 150S Metal halide

KB_8 70M²
KB_8 100M²
Incandescent

I^{1,4}

KB_8

Reflector <u>Standard flared cone</u>

R5 Type V distribution



Optional cylindrical reflector

CYA Specular alzak
CYB Black alzak

CYG Gold alzak
CYF Flat black



Options/accessories

LPI Lamp included (n/a with incandescent)

L/LP Less lamp

Voltage

120

208⁷

2407

277

347

SF Single fuse, 120V, 277V, 347V

DF Double fuse, 208V, 240V

CR Enhanced corrosion resistance

H24 24" overall height

H30 30" overall height **H36** 36" overall height

FD Festoon outlet

FG Festoon outlet with duplex ground fault receptacle⁶

CSA CSA Certified

Shipped separately

S6S Half-shield (6" square)

\$85 Half-shield (8" square) For optional architectural colors, see page 543.

NOTES:

- 1 120V only.
- 2 Requires coated lamp.
- 3 116W/TS, lamp not included.
- 4 150W max., lamp not included.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Coverships separately.
- 7 Consult factory for availabilty in Canada.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

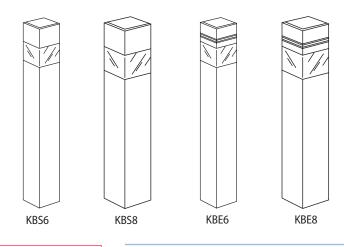
 KBE68-KB56
 KBE88-KB58

 Square:
 6(15.2)
 8(20.3)

 Height:*
 42(106.7)
 42(106.7)

 Max.weight:
 43.2 lbs (19.6 kg)
 43.2 lbs (19.6 kg)

*Also available in 24" (H24), 30" (H30) and 36" (H36).





KBA KBD



Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing - KB_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB_8: Bottom housing is 0.156" extruded aluminum. 42" overall height standard on KBD and KBA6. 43" overall height standard on KBA8. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2" diameter bolt circle template provide for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics - Reflector system incorporates an anodized, spun aluminum, flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector or cast aluminum louvers available.

Electrical - All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking quick disconnect on secondary circuit. Mediumbase porcelain socket, 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Example: KBA6 35S R5 120 CR LPI

Ordering Information

Designation

6" Bollards

High pressure sodium

KB 6 355 KB_6 505

KB_6 70S Metal halide

KB_6 50M² 70M² KB 6

<u>Incandescent</u>

KB 6

8" Bollards

High pressure sodium

KB_8 50S **70S** KB 8

 KB_8 100S **150S** KB 8

Metal halide 70M²

KB 8 KB_8 100M²

<u>Incandescent</u> **KB_8** 11,4

Compact fluorescent5 22DTT KB 8

KB 8 28DTT 26TRT KB 8 KB_8 32TRT

Reflector

Standard flared cone **R5** Type V distribution



Optional cylindrical reflector

CYA Specular alzak

CYB Black alzak CYG Gold alzak Flat black

Louver (8" ONLY) **LV** Louvers



Dimensions are shown in inches (centimeters) unless otherwise noted.

KBD8&KBA8 KBD6&KBA6 Diameter: 6(15.2) 8(203) 42(106.7) 42(106.7) 34.9lbs(15.9kg) 34.9lbs(15.9kg) Max.weight:

* Also available in 24" (H24), 30" (H30) and 36" (H36).

Voltage Options/accessories

120 **Installed 208**⁹ LPI Lamp included (n/a with incandescent) 240⁹

> L/LP Less lamp

277

347

TB⁶

Single fuse, 120V, 277V, 347V SF

Double fuse, 208V, 240V

Enhanced corrosion resistance CR

H24 24" overall height

H30 30" overall height

H36 36" overall height FD Festoon outlet

Festoon outlet with duplex ground fault receptacle⁷

CSA CSA Certified

 $For optional architectural colors, see \,page \,543.$

Shipped separately

R6S Half-shield (6" round)

R85 Half-shield (8" round)

NOTES:

120V only

Requires coated lamp. 116W/TS, lamp not included.

150W max., lamp not included.

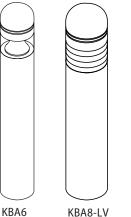
5 Louver must be used.

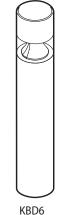
Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.

Coverships separately.

Not available with LV option, available in 6" units only

Consult factory for availabilty in Canada.







KBA8-LV

KBD8-LV

PSG9



For use in site walls or as stair lighting.

Features

Housing - One-piece, cast-aluminum housing (alloy contains less than 0.2% copper) with integral splice compartment (46 cu. in.); four 3/4" NPT conduit entries. Lens is one-piece, injection-molded, UV-stabilized polycarbonate, .125" minimum thickness. Tooled-in, stippled texture on non-optical portions. Die-cut, closed-cell EPDM gasket. Housing is shipped separately from lens/reflector/power module. Stainless steel, captive, Philips-type fasteners (tamper-resistant fasteners also provided). Standard lens finish is dark bronze enamel (painted on both inside and outside of non-optical portion). Black, white and natural aluminum finishes also available. Housing finish is clear polyester powder for corrosion protection. Recessed concrete cast in place is standard; optional mountings available.

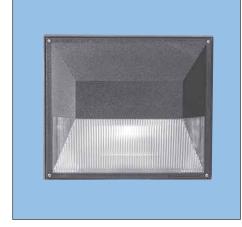
Optics - Reflectors are anodized, hydroformed aluminum. Two distributions available: A (for uniform symmetrical area lighting) and D (for left or right directional-throw area lighting, featuring a unique bi-adjustable socket assembly that can be field-adjusted up or down to provide maximum light distribution on stairway plane).

Electrical – All ballasts are copper wound and 100% factory-tested. Electrical components are unitized on removable power module. Positive-locking disconnect on primary and secondary circuits. Medium-base porcelain socket, 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.





Example: KL 50S A 120 QRS LPI

Ordering Information

Desig	nation		Distril	oution
High press	ure sodium	Α	Area	
KL	50S	D	Directio	onal
KL	70S			
KL	100S ¹			
<u>Metal</u>	<u>halide</u>			
KL	70M			
KL	100M ¹			
Incand	<u>lescent</u>			
KL	I ^{1,2,3,4}			

- 1 For inverted mounting application, 70W max.
- 2 150W A21 max. in A distribution.
- 3 100W A21 max. in D distribution.
- 4 120V only.
- 5 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada (120V, 277V, 347V; ships as 120V/347V).

Voltage		Options/accessories
120	Installed	
208 ⁵	LPI	Lamp included (n/a with in
240 ⁵	L/LP	Less lamp
277	SF	Single fuse, 120V, 277V

208 uded (n/a with incandescent) 240 277 se, 120V, 277V 347 QRS Quartz restrike system Photoelectric cell (only available with BBW, BBF) EC Emergency circuit

BBS Backbox (stud wall mount) BBW Backbox (surface wall mount)

BBF Backbox (flat horizontal surface mount) BBR Recessed (ceiling, soffit mount)

CSA CSA Certified

Architectural colors (optional)

Dark bronze (standard) DDB

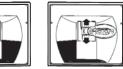
DBL Black

DNA Natural aluminum

DWH White



Bi-adjustable socket assembly KL "D" distribution



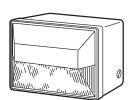


Left or right directional light distribution may be selected in the field.

www.lithonia.com, keyword: KL



Height: 12-1/4(31.1) 14-1/4(36.2) Width: Depth: 8-3/16(20.8) Back box: 6(15.2) 2-3/16(5.6) Lens: Max. weight: 15 lbs (7 kg)





ASW

Aeris™



Ordering Information

ASW1 26TRT³

32TRT

42TRT

57TRT

70TRT

2/32TRT

2/42TRT³

ASW1

ASW1

ASW1

ASW1

ASW1

ASW1

Intended Use

For building and wall-mounted applications.

Features

Housing – Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has impact-resistant, tempered glass lens. Door frame is fully sealed with a closed cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder. Other architectural colors available.

Optics – High-performance, segmented reflectors provide superior uniformity and control. Specialty anodized aluminum spot and grazer optics also are available. Reflectors are interchangeable and have field degree aiming capability up to 10° without tools. Reflectors allow for tool-less access to electrical components. All optics meet IES full cutoff criteria in lens-down orientation.

Electrical – 150W and below utilizes a high reactance, high-power factor ballast. 175W and

above utilizes a constant-wattage auto transformer ballast. Compact fluorescent uses an electronic high frequency ballast. Quick disconnect plugs easily disconnect reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested.

Socket – Porcelain, medium-base socket for ASW1, mogul-base socket for ASW2, with copper alloy, nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

Installation – Universal mounting plate with integral mounting bolts supports the fixture for easy one person installation.

Listings

UL Listed to US and Canadian safety standards. CSA Certified or NOM Certified (see Options). UL Listed suitable for wet locations in up or down orientation. IP65 rated. U.S. Patent No. D500,569. Other patents pending.

Example: ASW1 175M SR2 120 SF LPI

Desig	nation		Distribution	on	Voltage
High press	ure sodium 70S	SR2	Segmente roadway	ed type II,	120 208 ⁸
ASW1 ASW1	100S 150S	SR3	Segmente asymmetr	/1 /	240 ⁸ 277
ASW2 ASW2	200S 250S	SR4SC		ed type IV, nrow, sharp	347 480 ⁸
ASW2 Metal	400S halide	SR4W	cutoff Segmente		TB ⁹
ASW1 ASW1	70M 100M		(ASW2 on	,,	MVOLT ¹¹
ASW1	150M ¹ 175M	GZ SP	Wall grazi Tight spot	,	
ASW2	200M ²				
ASW2 ASW2	250M ¹ 320M ²	41	44		with LEED® obes™criteri
ASW2 ASW2	350M ² 400M ¹	NIGHT FRIEN		for light pol	lution reduc
Compact f	<u>fluorescent</u>	May	, depend on o	ntical selection.	Consultfactor

May depend on optical selection. Consult factory.

	Options/accessories		
SF DF GMF EC ELDW DC12 2DC12 2DC2012 2DC2012 QRS QRSTD CR CRT PE HS	Single fuse, 120V, 277V, 347V (n/a TB or TBV) Double fuse, 208V, 240V, 480V (n/a TB or TBV) Internal slow-blow fusing (n/a with MVOLT; CF only) Emergency circuit (100W max., lamp not included) ⁶ Emergency circuit 12-volt (35W lamp included std., ASW1 only) ^{4,6} Emergency circuit 12-volt (2/35W lamps included std., ASW1 only) ^{4,6} Emergency circuit 12-volt (2/35W lamps included std., ASW1 only) ^{4,6} Emergency circuit 12-volt (2/20W lamps included std., ASW1 only) ^{4,6} Emergency circuit 12-volt (2/20W lamps included std., ASW1 only) ^{4,6} Quartz restrike system (100W max., lamp not included) ⁶ Quartz restrike time delay (100W max., lamp not included) ⁶ Enhanced corrosion resistance Non-stick protective coating (black only) Photoelectric cell, button type (n/a TB, TBV or MVOLT) ¹³ House-side shield ¹⁴	ASW1VG ASW2BBW ASW2VG Architectural co Standard textu DDBT DSST DNAT DWHG DBLB Optional textur DBNH DSPD DSPJ DSPE	red colors Dark bronze (std.) Sandstone Natural aluminum White Black
SCWA CSA	Super CWA pulse start ballast ⁷ Listed and labeled to comply with Canadian safety standards	DSPG DSPF	Dark red Rust
NOM LPI	NOM Certified Lamp included	DSPH	Red

NOTES:

goals

1 May be ordered with SCWA.

L/LP

Shipped separately

ASW1BBW

2 Must be ordered with SCWA.

3 Available with SR3 only.

4 DC options and GZ cannot be ordered together (ASW1 only).

Less lamp

ASW1WG Size 1 wire guard

Size 1 surface-mounted back box

5 Not available with compact fluorescent.

6 EC, QRS, QRSTD, DC options or SP cannot be ordered together.

7 Not available with HPS.

8 Consult factory for availability in Canada.

9 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ship as 120/347V.
 10 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V; n/a in Canada).

Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
 Available for compact fluorescent units only; not available with 2/32TRT,

2/42TRT,57TRT or 70DTT.

13 Must be ordered with fixture; cannot be field installed

14 Only available with SR2 & SR3; SR4W (size 2 only).

15 Additional architectural colors available; see www.lithonia.com.

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
High pressu	ire sodium (med/mo	g/clear <u>)</u>	
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
250	CWA	ET18	mogul
400	CWA	ET18	mogul
Metal halid	e (med/mog/clear)		
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	E17	medium
250	CWA	BT28	mogul
400	CWA	ED28	mogul
Compact flu	iorescent (double tw	<u>/in-tube/triple-tu</u>	<u>ıbe)</u>
26DTT	electronic, HPF	T4	G24Q-3
32TRT	electronic, HPF	T4	GX24Q-3
42TRT	electronic, HPF	T4	GX24Q-4
57TRT	electronic, HPF	T4	GX24Q-5
70DTT	electronic, HPF	T4	GX24Q-6

 $Dimensions \ are \ shown \ in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise \ noted.$

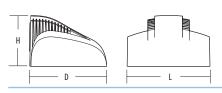
 ASW1
 ASW2

 Length:
 15 (38.10)
 20-1/4 (51.44)

 Depth:
 13-3/4 (34.93)
 18-3/4 (47.63)

 Height:
 9-1/4 (25.5)
 12-1/2 (31.75)

 Max.weight:
 35 lbs (15.9 kg)
 49 lbs (22.236 kg)





For building and wall-mounted applications.

Features

Housing - Extruded aluminum body with cast end caps is mounted with 1/4" bolts, to formed steel wall bracket. Housing body can be rotated and locked in any position along horizontal axis. Cast aluminum lens frame is hinged and secured by stainless steel fasteners. Closed cell silicone gasket prevents the penetration of dust and moisture. Clear, impact-resistant, tempered glass lens with silkscreen. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics - Anodized aluminum reflectors: segmented, specular or hammertone finish. Reflectors are field interchangeable.

Electrical - 150W and below utilizes a high reactance, high-power ballast. 175W and above

Lamp/Fixture Data

Lamp

type

E17

E17

ET18

FT18

ED17

ED17

BT28

BT28

Ballast

HX-HPF

HX-HPF

CWA

CWA

CWA

CWA

CWA

CWA

Base

type

medium

medium

moaul

moaul

medium

moaul

mogul

Ream

142x127

39x12

60x13

144x140

27x15

42x17

146x140

medium 147x127

Spread H°xV°

7x6

3x1

4x1

7x7

2x1

7x6

3x1

7x7

utilizes a constant-wattage autotransformer ballast. Ballasts are copper wound and 100% factory tested.

Socket - Horizontal porcelain socket (WFL2 medium-base, WFL3 mogul-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V 4KV pulse rated.

Installation - Steel mounting plate attaches directly to industry standard junction box. Mounting plate includes provision for attachment independent of junction box (required for WFL3). Optional backbox wall mounting available for surface conduit applications.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. IP65 rated.



Example: WFL2 175M GZ 120 LPI

Ordering Information

Designation High pressure sodium WFL2 70S WFL2 100S	
WFL2 70S	
WFL2 100S	
WFL2 150S	
WFL3 250S	
WFL3 400S	
Metal halide	
WFL2 70M	
WFL2 100M	
WFL2 150M ¹	
WFL2 175M	
WFL3 200M ²	
WFL3 250M ¹	
WFL3 320M ²	
WFL3 350M ²	
WFL3 400M ^{1,3}	

NEMA

ςp

HPW

ςp

HPW

SP

HPW

ςp

HPW

Wattage Dist.

150

150

400

400

175

175

400

400

Metal halide

High pressure sodium

	Distribution
SP	Spot
BP	Horizontal flood ⁴
RN	Horizontal spot, narrow
RM	Horizontal spot,
	medium
RW	Horizontal spot, wide
HPN	Vertical flood, narrow
HPM	Vertical flood, medium
HPW	Vertical flood, wide
FT	Forward throw
GZ	Wall grazing

Voltage
120 208 ⁵ 240 ⁵
277 347
480 ⁵ TB ⁶

	Options/acc	essories
Installed		Classi
SF	Single fuse, 120V, 277V, 347V (n/a TB)	- 1
DF	Double fuse, 208V, 240V, 480V (n/a TB)	1
QRS	Quartz restrike system (WFL3 only, 100W max., lamp not included)	
CR	Enhanced corrosion resistance	
CSA	CSA Certified	
PE	Photoelectric cell, button type (n/a TB or 480V)	
EC	Emergency circuit (WFL3 only, 100W max., lamp not included)	Shipp
SCWA	Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)	
LC90	Lock at 90° for full cutoff	
LPI	Lamp included	
L/LP	Less lamp	
Architecture	al colors ⁷	
Standard co	<u>olors</u>	
DDB	Dark bronze (std.)	

NOTES:

- May be ordered with SCWA.
- Must be ordered with SCWA.
- Requires ED-28 reduced jacket lamp
- WFL2 only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V: ships as 120V/347V.

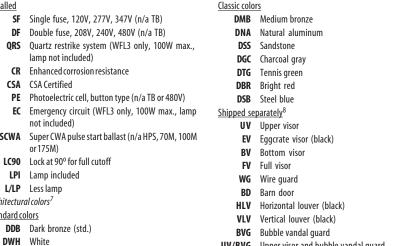
DBL Black

- Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
- May be ordered as an accessory. Door frame must be factory drilled.

Dimensions are shown in inches (centimeters) unless otherwise noted.

WFL2 WFL3 1.3 ft² (.12 m²) 2.0 ft² (.19 m²) Width: 18-1/2 (47) 21-1/2 (54.6) Height: 6-3/4(29.8) 8-3/4(22.3) Depth: 11-3/4(29.8) 14-3/4(37.5) Max. weight: 29 lbs (13.1 kg) 44 lbs (19.9 kg)

www.lithonia.com, keyword: WFL



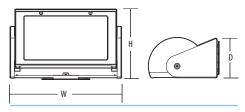


Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

UV/BVG Upper visor and bubble vandal guard

WFLBBW Surface-mounted back box

May depend on optical selection. Consult factory.





WST/WSR/ WSQ



Intended Use

For building- and wall-mounted applications.

Features

Housing – Rugged, die-cast, single-piece housing. Die-cast door frame has 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone. Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder with other architectural colors available.

Optics – Interchangeable, segmented reflectors for superior uniformity and control. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw). Four uplight distributions available in WSR only: FTU (forward throw, 10% up), MDU (medium throw, 10% up), WTU (wide throw, 10% up) and MDU5 (up/down, medium throw, 50% up, 50% down). Compact fluorescent MD (medium throw) only.

Electrical – HID: 50W MH-150W utilizes a high reactance, high-power factor ballast. 35S and 50S utilizes a reactor normal-power factor ballast. 175W utilizes a constant-wattage auto

Voltage

120 208⁴ 240⁴ 277 347 TB⁵ TBV⁶ MVOLT⁷ transformer ballast. Quick-disconnect plug easily disconnects reflector from ballast. Ballasts are copper wound and 100% factory tested. CFL: compact fluorescent ballast is Class P, electronic, high-power factor, <10% THD with starting temp. of 0° F (-18° C).

Socket - HID is porcelain, medium-base copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V 4KV pulse rated). Fluorescent socket is high-temperature thermoplastic with integral lamp retention clip.

Installation – Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

Listings

UL Listed suitable for wet locations (damp location listed in lens-up orientation). CSA Certified (see Options). IP65 rated.

Example: WST 175M FT 120 SF LPI

Ordering Information

	Series	Wattage
WST WSR WSQ	Trapezoid Halfround Quarter sphere	High pressure sodium 3551 505 705 1005 1505 Metal halide 50M 70M 100M 150M 175M Compact fluorescent ² 26DTT 2/26DTT 32TRT 42TRT 42TRT

Downlig	ht distribution
FT	Forward throw
MD	Medium throw (coated
	lamp standard)
WT	Widethrow
Uplight (distribution ³
FTU	Forward throw with 10%
	uplight
MDU	Medium throw with
	10% uplight (coated
	lamp standard)
WTU	Wide throw with 10%
	uplight
MDU5	Up/down medium
	throw with 50% uplight
	& 50% downlight

(coated lamp standard)

Distribution

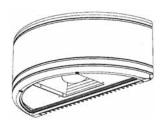
	Options/acc
Installed	
SF	Single fuse, 120V, 277V, 347V (n/a TB or TBV)
DF	Double fuse, 208V, 240V (n/a TB or TBV)
GMF	Internal slow-blow fusing ^{8,9}
EC	Emergency circuit (25W max., lamp included)
DC12	Emergency circuit 12 volt (35W lamp included standard) ¹⁰
2DC12	Emergency circuit 12 volt ((2) 35W lamps included standard) ¹⁰
DC2012	Emergency circuit 12 volt (20W lamp included standard) ¹⁰
2DC2012	Emergency circuit 12 volt ((2) 20W lamps included standard) ¹⁰
ELDW	Emergency battery pack (120V or 277V only) ^{8,11}
ELDWR	Remote battery pack ready (by others) for compact fluorescent lamps 12
ELDWC	Cold weather emergency battery pack (120V and 277V only) ^{8,20}
QRS	Quartz restrike system (100W max., lamp not included) ¹³
CR	Enhanced corrosion resistance

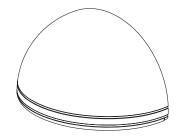
ccessories			
CRT	Non-stick protective coating ¹⁴		
PE	Photoelectric cell-button type		
	(n/a TB or TBV) ¹⁶		
WLU	Wet location door for up		
	orientation		
IBS	Internal backlight shield ¹⁶		
DFL	Diffusing lens		
LPI	Lamp included		
L/LP	Less lamp		
UCS	Uplight component shield ¹⁷		
CSA	CSA Certified		
Architectural	colors ¹⁸		
Standard textured colors			
DDBT	Dark bronze (std.)		
DSST	Sandstone		
DNAT Natural aluminum			
DWHG	White		
DBLB	Black		
Shipped separately			
WSBBW	Surface-mounted back box ¹⁹		
UT5	Uptilt 5 degrees ¹⁹		
WSTWG	Wire guard (WST) ¹⁵		
WSTVG	Vandal guard (WST) ¹⁵		
WSRWG	Wire guard (WSR and WSQ) ¹⁵		
WSRVG	Vandal guard (WSR and WSQ) 15		



WST WSR WSQ







 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless otherwise \ noted.$

	<u>WST</u>	<u>WSR</u>	<u>WSQ</u>
Width:	16-1/4(41.2)	18(45.7)	18(45.7)
Depth:	9-1/8(23.2)	9(22.8)	9(22.8)
Height:	7-1/4(18.4)	7-1/4(18.4)	9-3/8(23.8)
Max.weight:	30 lbs (13.6 kg)	30 lbs (13.6 kg)	30lbs (13.6kg)

NOTES:

- 1 120V only, NPF only
- 2 Only available with MD, MDU and MDU5 distributions.
- 3 Available on WSR fixture only.
- 4 Not available in Canada.
- $5 \quad Optional \, multi-tap \, ballast (120V, 208V, 240V, 277V). \, In Canada \, 120V, 277V, 347V; ships as \, 120V/347V.$
- $6 \quad Optional 5-tap \ ballast (120V, 208V, 240V, 277V, 480V; n/a \ in \ Canada). \ 175Monly.$
- $7\quad Optional \, multi-volt \, electronic \, ballast \, (for \, compact \, fluorescent \, lamps \, only) \, capable \, of \, operating \, on \, any \, line \, voltage \, from \, 120 V-277 V.$
- 8 Available for compact fluorescent units only.
- 9 Must specify voltag, n/a MVOLT or TB.
- 10 Not available with SF, DF or QRS.
- $11 \quad \text{Not available with 2/32TRT or 2/42TRT}.$
- $12 \quad Battery pack by others and mounted external to luminaire. Pilot light/tests witch mounting plate included. Consult factory for availability. \\$
- $13 \quad \text{Not available with compact fluorescent.} \\$
- 14 Black finish only.
- 15 Must be ordered with fixture; no field modifications.
- $16 \quad IBS \, not \, available \, with \, MD, \, MDU \, and \, MDU5 \, distributions.$
- $17 \quad For WSR, inverted \, orientation, with \, FTU \, and \, WTU \, distributions \, only.$
- $18 \quad Additional \, architectural \, colors \, available; see \, www. lithonia. com.$
- 19 Must specify finish.
- 20 -20°Cto55°Coperation. N/A2/26DTT,2/32TRT,2/42TRT or WSQ.

Lamp/Fixture Data						
Wattage	Ballast	Lamp type	Base type			
High pressure	e sodium (med/clear)	1				
35	RHPF	E17	medium			
50	RHPF	E17	medium			
70	HX-HPF	E17	medium			
100	HX-HPF	E17	medium			
150	HX-HPF	E17	medium			
Metal halide	(med/clear)					
50	HX-HPF	E17	medium			
70	HX-HPF	E17	medium			
100	HX-HPF	E17	medium			
150	HX-HPF	E17	medium			
175	CWA	E17	medium			
Compact fluorescent (double twin-tube/triple-tube)						
26DTT	electronic, HPF	T4	G24Q-3			
32TRT	electronic, HPF	T4	GX24Q-3			
42TRT	electronic, HPF	T4	GX24Q-4			



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

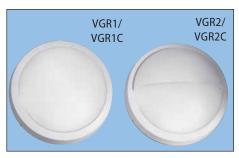
Does not meet with uplight distribution options.

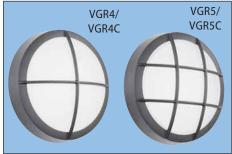


LITHONIA OUTDOOR

VGR

Gateway®





Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel - One-piece, marine-grade, die-cast aluminum, low copper alloy (<1% copper), .125" thick. Standard finish is textured polyester powder coat. Secured to backplate or housing with stainless steel Torx® T10 set screws (two included).

Housing - One-piece, die-cast aluminum, low copper alloy (<1% copper) post painted in textured polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Backplate - 16-gauge steel, post-painted in black polyester powder coat. Universal keyhole and four-point mounting detail.

Lens - Translucent white, injection-molded, UVstabilized polycarbonate (.125" thick). Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick).

Paint finishes9

Standard textured colors

Dark bronze

Natural aluminum

Optional textured colors **DBNH** Bronze DSPD

Sandstone

Dark gray

Dark red **DSPF** Rust DSPH Red

DSPJ Light gray

DWHG White

DBLB Black

DDBT

DNAT

DSST

DSPE Green

DSPG

Voltage

120

208

240

277

347

TB^{5,6}

MVOLT7,8

Lens

Polycar-

bonate

cate glass

(blank)

GL Borosili-

NOTES:

1 Not ADA compliant. 2 120V only.

3 Available with deep profile units only.

10 Must specify voltage, n/a MVOLT or TB. 11 Available with 26DTT, 26TRT and 32TRT.

14 Available for single-lamp units only. 15 Available with low profile units only. 16 Not available with DS option.

17 Stainless steel Torx® T20 screws with center pin 18 Color will be the same as the bezel. 19 Lamp included unless L/LP is specified. 20 Must specify color (Example: VGRDS DWHG).

6 Available for HID units only

12 42TRT max, wattage 13 Maximum wattage lamp included.

4 Low UV lamp is included and recommended for replacement. 5 Multi-tap ballast-US: 120V, 208V, 240V, 277V; Canada: 120V/347V.

7 Multi-volt electronic ballast (for DTT and TRT lamps), capable of operating on any line voltage between 120V and 277V. Available for compact fluorescent units only. 9 Additional architectural colors available: see www.lithonia.com Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate or housing to mounting surface.

Reflectors - HID reflectors are semi-specular aluminum. Fluorescent reflectors are high-gloss white powder coat finish for maximum light output. Lamps positioned for uniform brightness and illumination.

Ballast - HID: High reactance HPF, starting of -20°F (MH) or -40°F (HPS) CFL: Class P, electronic, HPF multi-volt, <10% THD with starting temperature of 0°F. 13TT is electromagnetic, NPF, 120V only.

Socket – HID: medium-base 4KV-rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

Lamps - 35K 4-pin lamp standard for compact fluorescent. MH: reduced UV lamp is standard. Included unless L/LP is specified.

Listings

UL Listed to US and Canadian safety standards (See Options). NOM Certified (see Options). UL Listed for 25°C ambient and wet locations. IP65 rated.

Information also available in Rough Service section pages 400-403.

Ordering Information

3		
Series	Wa	ttage
Low profile (ADA)	Compact fluorescent	High pressure sodiun
VGR1 3.7" deep	13TT ²	50S
VGR2 4" deep	2/13TT ²	705
VGR4 4.1" deep ¹	13DTT	Metal halide ^{3,4}
VGR5 4" deep	2/13DTT	50M
Deep profile ¹	18DTT	70M
VGR1C 6.7" deep	2/18DTT	100M
VGR2C 6.9" deep	26DTT	
VGR4C 7" deep	2/26DTT	
VGR5C 6.9" deep	26TRT	
	2/26TRT	
	32TRT	
	2/32TRT ³	
	42TRT	
	2/42TRT ³	
	Low	Deep
	profile	profile
	- B -	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

Dimensions are shown in inches (centimeters) unless otherwise noted

		VGR2/			VGR2C/	
	VGR1	VGR5	VGR4	VGR1C	VGR5C	VGR4C
A. Diameter:	13.7	13.7	13.7	13.7	13.7	13.7
	(38.8)	(38.8)	(38.8)	(38.8)	(38.8)	(38.8)
B. Depth:	3.7	4	4.1	6.7	6.9	7
	(9.4)	(10.2)	(10.4)	(17)	(17.5)	(17.8)

Example: VGR1 42TRT GL 120 DWHG GLR LPI

		Options		Lamps ¹⁹
1	ADCF MOTCF TUBCF	Advance electronic fluorescent ballast Osram Sylvania electronic fluorescent ballast Universal Lighting Technologies electronic fluorescent ballast	LF	PI Lamp(s) included (std.) ILP Less
	ADEZ	Advance Marx X electronic dimming ballast ^{3,8,10,11}		lamp(s)
	DMHL	Lutron Hi-Lume electronic dimming ballast ^{3,8,10,11}		
	ELDW	Emergency lighting (750 max. lumens) ^{3,8,10,12}		
	2/1	Two 1-lamp ballasts		
	DS	Dual switching		
	SF	Single fuse, 120V, 277V ^{6,10}		
	DF	Double fuse, 208V, 240V ^{6,10}		
	EC	Emergency circuit (incandescent, 25W max.) ^{3,13,14,15}		
	GLR	Internal fast-blow fusing ^{8,10}		
	GMF	Internal slow-blow fusing ^{8,10}		
	NL	Night-light (incandescent, 7W max.) ^{2,3,13,14}		
	NLCF	Night-light (compact fluorescent 9W max.) ^{8,13,14,15}		
	PE	Photoelectric cell ^{3,10,16}		
	QRS	Quartz restrike system ^{6,13}		
	TRS	Tamper-resistant screws ¹⁷		
	VGRDS	Decorative shroud ^{3,18}		
	CSA	Listed and labeled to comply with Canadian safety standards		
	NOM	NOM Certified ¹⁶		

Accessories	(Order separately)
RK1 T10DRV	Torx® T10 screwdriver for Gateway® set screws.
RK1 T20BIT	Torx® T20 hex-base driver bit for TRS option.
RK1 T20DRV	Torx® T20 screwdriver for TRS option.
VGRDS	Decorative shroud ²⁰



www.lithonia.com, keyword: VGR

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

Bezel - One-piece, marine grade die-cast aluminum, low copper alloy (<1% copper), .125" thick. Standard finish is textured polyester powder coat. Secured to housing or backplate with stainless steel Torx® T10 set screws (two included).

Housing - One-piece, marine grade die-cast aluminum, low copper alloy (<1% copper), postpainted in polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

Backplate - 16-guage steel, post-painted in black polyester powder coat. Four-point mounting detail.

Lens - Translucent white, injection-molded, UVstabilized polycarbonate (.125" thick). Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick)

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate or housing to mounting surface.

Reflectors - High-gloss white powder coat finish for maximum light output. (Lamps positioned for uniform brightness and illumination).

Ballast - HID: High reactance, HPF, starting temperature. -20°F (MH) or -40°F (HPS). CFL: Class P. Electronic, HPF multi-volt <10% THD. Starting temperature 0°F.

Socket - HID: medium-base 4KV-rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

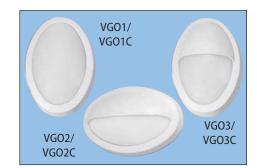
Listings

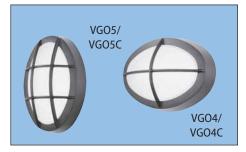
UL Listed to US and Canadian safety standards (see Options). NOM Certified (see Options). UL Listed for 25°C ambient and wet locations. IP65 rated.

 $Information\, also\, available\, in\, Rough\, Service\, section\, pages\, 400-403.$



Gateway®





Example: VGO5C 50S 120 DSPD PE LPI

Series	Wattage	Lens	Voltage	Paint finishes ¹⁰		Options	Lamps ¹⁶
VGO1 3.7" deep VGO2 4" deep VGO3 4" deep VGO4 4" deep VGO5 4" deep Deep profile VGO1C 6.7" deep VGO2C 6.9" deep VGO3C 6.9" deep VGO4C 7" deep VGO5C 6.9" deep	Compact fluorescent ² 13TT 13DTT 18DTT 26DTT 26TRT 32TRT 42TRT ³ High pressure sodium ³ 50S Metal halide ^{3,4} 50M	(blank) Polycarbonate GL Borosilicate glass ⁵	120 208 240 277 347 TB ^{6,7} MVOLT ^{8,9}	Standard textured colors DWHG White DBLB Black DDBT Dark bronze DNAT Natural aluminum DSST Sandstone Optional textured colors DBNH Bronze DSPD Dark gray DSPE Green DSPG Dark red DSPF Rust DSPH Red DSPJ Light gray	ADCF MOTCF TUBCF ADEZ DMHL SF DF EC GLR GMF NL PE QRS TRS	Advance electronic fluorescent ballast Osram Sylvania electronic fluorescent ballast Universal Lighting Technologies electronic fluorescent ballast Advance Mark X electronic dimming ballast ^{3,9,11,12} Lutron Hi-lume electronic dimming ballast ^{3,9,11,12} Single fuse, 120V, 277V ^{7,11} Double fuse, 208V, 240V ^{7,11} Emergency circuit (incandescent, 25W max.) ^{3,13} Internal fast-blow fusing ^{9,11} Internal slow-blow fusing ^{9,11} Night-light (incandescent, 7W max.) ^{2,3,13} Photoelectric cell ^{3,11} Quartz restrike system ^{7,13} Tamper-resistant screws ¹⁴ Listed and labeled to comply with Canadian safety	LPI Lamp included (std.) L/LP Less lamp
NOTES:					NOM	standards NOM Certified ¹⁵	

- 1 Not ADA compliant.
- 2 120V only.
- Available with deep profile units only.

Ordering Information

- 4 Low-UV lamp included (recommended for replacement).
- 5 Not available with TRT lamps in low-profile units.
- Multi-tap ballast-US: 120V, 208V, 240V, 277V; CA: 120V/347V.
- Available for HID units only
- $8 \quad \text{Multi-voltelectronic ballast (for DTT and TRT lamps) capable of operating on any} \\$ line voltage between 120V and 277V.
- 9 Available for compact fluorescent units only.
- 10 Additional architectural colors available; see www.lithonia.com.
- 11 Must specify voltage, n/a MVOLT or TB.
- 12 Available with 26DTT and TRT lamps; excludes 42TRT.
- 13 Maximum wattage lamp included.
- 14 Stainless steel Torx® T20 screws with center reject pin.
- 15 Available with low profile units only.
- 16 Lamp included unless L/LP is specified.

Accessories (Order separately) RK1 T10DRV Torx® T10 screwdriver for Gateway® set RK1 T20BIT Torx® T20 hex-base driver bit for TRS option. RK1 T20DRV Torx® T20 screwdriver for TRS option. Dimensions are shown in inches (centimeters) unless otherwise noted. VG03/ VG03C/ <u>VG01</u> <u>VG02</u> <u>VG05</u> <u>VG04</u> <u>VG01C</u> <u>VG02C</u> <u>VG05C</u> <u>VG04C</u> A. Height: 13.7 13.7 13.7 13.7 9.4 9.4 (34.8) (23.8) (34.8) (34.8) (23.8) (34.8) B. Width: 13.7 9.4 9.4 9.4 13.7 9.4

C. Depth: 3.7

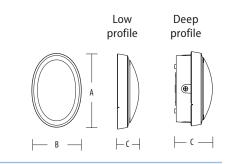
www.lithonia.com	keyword: <u>VGO</u>

4.0 4.0 4.1 6.7

(23.8) (34.8) (23.8) (23.8) (23.8) (34.8) (23.8) (23.8)

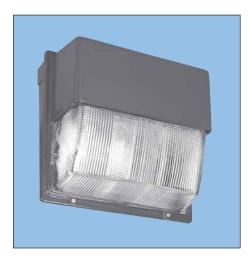
(10.2) (10.2) (10.4) (17.0) (17.5) (17.5) (17.8)

6.9 6.9 (34.8)





TWH



Voltage 120 208⁶ 240⁶ 277 347 480⁷ TB⁸

TBV9

Intended Use

For outdoor storage areas, warehouse and factory perimeters and loading docks. Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.

Features

Housing – Rugged, die-cast aluminum housing. Corrosion-resistant captive external hardware includes slotted hex-head fasteners. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics – Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass. Lens is sealed and gasketed to inhibit entrance of outside contaminants.

Electrical – 70-150W HPS and 100-150M: High-reactance, high-power factor. All others: Constant-wattage autotransformer. Ballasts are

copper wound and 100% factory tested. UL Listed. Electrical components mounted in hinged front cover that includes primary and secondary electrical disconnect.

Socket – Glazed porcelain (mogul-based; 175M and above; medium based: 150M, 150S and below), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V for medium base; 1500W, 600V for mogul base. 4KV pulse rated.

Installation – Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Mount on any flat, non-combustible vertical surface.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated (250W and below) or IP54 rated (400W).

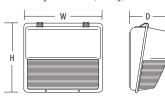
Ordering Information

Designation				
High pres	sure sodium			
TWH	70S			
TWH	100S			
TWH	150S			
TWH	200S			
TWH	250S			
TWH	400S			
Meta	<u>ll halide</u>			
TWH	100M			
TWH	150M ¹			
TWH	175M			
TWH	200M ²			
TWH	250M ¹			
TWH	320M ²			
	350M ²			
TWH	400M ^{1,3}			
Mercu	ır <u>y vapor</u>			
TWH	100H			
TWH	175H			
TWH	250H			
Low pressure sodium				
THW	35L ⁴			
<u>Incan</u>	<u>idescent</u>			
THW	300I ^{5,10}			

	Options
<u>Installed</u>	
SF	Single fuse, 120V, 277V, 347V (n/aTB or TBV)
DF	Double fuse, 208V, 240V, 480V (n/a TB or TBV)
EC	Emergency circuit ^{10,11}
QRS	Quartz restrike system ^{10,11}
CR	Enhanced corrosion resistance
CRT	Non-stick protective coating ¹²
PE	Photoelectric cell — button type (n/a TB, TBV or 480)
PER	NEMA twist-lock receptacle ¹³
FS	Full shield
TWHWG	Wireguard ¹⁴
TWHVG	Vandal guard ¹⁴
SCWA	Super SCWA pulse start ballast (150M-400M only; n/a 175M)
RHP	Reactor high-power factor ballast (HPS 150W & below only)
RNP	Reactor normal-power factor ballast (HPS 150W & below only, 120V only)
XHP	Reactance high-power factor ballast (HPS 150W & below only)
CSA	CSA Certified ¹⁵
NOM	NOM Certified (consult factory)
LPI	Lamp included 16
L/LP	Less lamp
TP	Tamperproof fasteners
For optional are	chitectural colors, see page 543.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Height: 15-1/4(40)
Width: 16-1/4(41.3)
Depth: 8(20.3)
Weight: 26-42lbs(12-19kg)



Lamp/Fixture Data ¹⁸						
Wattage	Wattage Ballast Lamp type Base type					
High pressure s	odium (med/mo	og/clear)				
70	HX-HPF	E17	medium			
100	HX-HPF	E17	medium			
150	HX-HPF	E17	medium			
250	CWA	BT28	mogul			
400	CWA	BT28	mogul			
Metal halide (m	Metal halide (med(150)/mog/clear)					
150	HX-HPF	E17	medium			
175	CWA	BT28	mogul			
250	CWA	BT28	mogul			
400	CWA	ED or BT28	mogul			

www.lithonia.com, keyword: TWH

Example: TWH 250S TB LPI (Order separately)

RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 TWHGL FS	Field installable full shield, for cutoff
PE1	NEMA twist-lock photocontrol, 120V, 208V, 240V
PE3	NEMA twist-lock photocontrol, 347V ¹⁷
PE4	NFMA twist-lock photocontrol, 480V ¹⁷

PE7 NEMAtwist-lock photocontrol, 277V¹⁷

NOTES:

Accessories

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA
- 3 Requires ED or BT 28 reduced jacket lamp.
- 4 Not available with TB.
- 5 120V only, A21 lamp.
- 6 Consult factory for availability in Canada.
- $7\quad Consult factory for availability in Canada, n/a\,150M.$
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 9 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- 10 Lamp not included.
- $11\quad Quartz\,lamp\,wattage\,not\,to\,exceed\,ballast\,wattage\,rating.$
- 12 Black finish only.
- 13 Photocell not included.
- 14 Requires factory modification.
- 15 Not available with TBV.
- 16 Not available with incandescent.
- 17 PER must be ordered with fixture.18 Other ballast types available.





For entrances, loading docks, walkways and vehicle ramps. Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.

Features

Housing - Rear housing is rugged, die-cast aluminum. Corrosion-resistant, captive external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics - Reflector is aluminum, finished in white enamel. Front housing and refractor are onepiece, injection-molded, UV-stabilized polycarbonate. Standard finish: front cover has an opaque lower portion and dark bronze painted upper portion; back housing is dark bronze polyester. Refractor is sealed and gasketed to inhibit the entrance of outside contaminants.

Electrical - HPS, 70-150M: High-reactance, highpower factor (XHP). 175MH and MV: Constantwattage autotransformer. Ballast is copper wound and 100% factory tested. UL Listed. Electrical components mounted on back housing.

Socket - Glazed porcelain (mogul-based; 175W; medium based: 150W and below), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V for medium base; 1500W, 600V for mogul base. 4KV pulse rated.

Installation – Top 3/4" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use condulet tee (not included). Mount on any flat, non-combustible vertical surface.

Listings

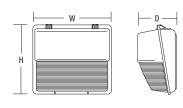
UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Example: TWP 175M TB LPI

Accessories	(Order separately)
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V and 277V.
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 TWPFA FS	Field installable shield for cutoff

	Lamp/Fix	rture Data ⁹		
		Lamp	Base	
Wattage	Ballast	type	type	
High pressure soc	dium (med/clear	1		
35	RHP	E17	medium	
50	RHP	E17	medium	
70	XHP	E17	medium	
100	XHP	E17	medium	
150	XHP	E17	medium	
Metal halide (me	ed(70/100/150)/	mogul(175)/clear)	
50	HX-HPF	E17	medium	
70	HX-HPF	E17	medium	
100	HX-HPF	E17	medium	
150	HX-HPF	E17	medium	
175	CWA	BT28	mogul	
Mercury vapor (mog/coated)				
100	CWA	E17	medium	
175	CWA	BT/ED28	mogul	
Low pressure sod	lium (D.C. bay/c	<u>lear)</u>		
35	HPF-LAG	T17	medium	



Accessories	(Order separately
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V and 277V.
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 TWPFA FS	Field installable shield for cutoff

	Lamp/Fix	cture Data ⁹	
		Lamp	Base
Wattage	Ballast	type	type
High pressure soo	dium (med/clea	<u>r)</u>	
35	RHP	E17	medium
50	RHP	E17	medium
70	XHP	E17	medium
100	XHP	E17	medium
150	XHP	E17	medium
Metal halide (me	ed(70/100/150)/	mogul(175)/clear)
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	BT28	mogul
Mercury vapor (r	nog/coated)		
100	CWA	E17	medium
175	CWA	BT/ED28	mogul
Low pressure sod	ium (D.C. bay/c	<u>lear)</u>	
35	HPF-LAG	T17	medium

Ordering Information

Desig	gnation
High pres	sure sodium
TWP	35S ¹
TWP	50S ²
TWP	70S
TWP	100S
TWP	150S
<u>Meta</u>	<u>l halide</u>
TWP	70M
TWP	100M
TWP	150M
TWP	175M
Mercu	iry vapor
TWP	100H
TWP	175H
Low press	sure sodium
TWP	35L ²
<u>Incan</u>	<u>descent</u>
TWP	20013,4

NOTES:

- 1 120V only.
- 2 Not available with 480V or TB.
- 3 120V only. A21 lamp for 2001.
- Lamp not included
- 5 Consult factory for availability in Canada; n/a 355, 50S and 150M.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish on rear housing only.
- 9 Other ballast types available.

	Options
<u>Installed</u>	
SF	Single fuse, 120V, 277V, 347V (n/a TB)
DF	Double fuse, 208V, 240V, 480V (n/a TB)
EC	Emergency circuit ^{4,7}
QRS	Quartz restrike system ^{4,7}
CR	Enhanced corrosion resistance (rear housing only)
CRT	Non-stick protective coating ⁸
PE	Photoelectric cell, button type (n/a TB or 480)
LPI	Lamp included
L/LP	Less lamp
FS	Full shield
WG	Wireguard
SCWA	Super CWA pulse start ballast (150M only)
RHP	Reactor high-power factor ballast (HPS only)
RNP	Reactor normal-power factor ballast (HPS only)
CSA	CSA Certified
NOM	NOM Certified (consult factory)
<u>Architect</u>	<u>ural colors (optional)</u>
DNA	Natural aluminum
DBL	Black
DMB	Medium bronze
DWH	White
DSS	Sandstone

light**quick**°X0 Express delivery products. See page11 for details about LightQuick XD. Description TWP 175M TB LPI

Dimensions are shown in inches (centimeters) unless otherwise noted.

15-7/16 (39.2) Height Width 16-1/8(41) Depth 7-3/4(19.7) 16 lbs (7 kg) Weight

www.lithonia.com, keyword: TWP

TWA

Contour®



Ordering Information

oracing	1111011	Hatic	711		
Desi	ignation			Volt	tage
High pre	ssure sodiu	<u>m</u>		12	20
TWA	35S ¹			20	8 ⁴
TWA	50S ²			24	04
TWA	70S ³			2	77
TWA	100S ³			34	47
Meta	al halide			TI	B ⁵
TWA	50M			MV	DLT ⁶
TWA	70M				
TWA	100M				
Compact	fluorescer	<u>ıt</u>			
TWA	22DTT (2	2-pin)			
TWA	26DTT (4	4-pin)			
TWA	28DTT (2	2-pin)			
TWA	32TRT (4	4-pin)			
TWA	42TRT (4	4-pin)			

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height: 10(25.4) 11-1/2(29.2) Width: 8-15/16(22.7) Depth: 14 lbs (6.4 kg) Max. weight:

Intended Use

For entrances, stairwells, corridors and other pedestrian areas. Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.

Features

Housing - Rear housing is rugged, die-cast aluminum. Front cover is one-piece, UV-resistant, injection-molded polycarbonate, internally painted. Captive external hardware is treated for corrosion resistance and includes slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics - Front housing and refractor are onepiece, injection-molded, UV-stabilized polycarbonate. High-performance optical system consists of specular anodized segmented reflector and computer-designed prism pattern. Standard finish is dark bronze polyester enamel. Front cover sealed with one-piece, high-temperature silicone gasket to inhibit entrance of outside contaminants.

Options

CR Enhanced corrosion resistance (rear housing only) Non-stick protective coating (rear housing only)¹¹

GMF GMF internal slow-blow fusing⁷ Single fuse, 120V, 277V, 347V⁸ Double fuse, 208V, 240V⁸ **EC** Emergency circuit^{9,10} QRS Quartz restrike system^{9,10}

PE Photocell (button type, n/a TB)

High power factor ballast (HPS only)

NOM Certified (consult factory)

LPI Lamp included Less lamp

CSA Certified

Architectural colors (optional)

Natural aluminum

Medium bronze

Sandstone

Electrical - MH: High-reactance, high-power factor standard. HPS: Reactor normal power factor standard, HPF available, UL Listed, Electrical components are mounted to the cast-aluminum housing, promoting maximum heat dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

Socket - HID is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V and 4KV pulse rated.) Fluorescent is 2-pin (DTT) or 4-pin (TRT), positive latching thermoplastic.

Installation - Top 1/2" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use condulet tee (not included). Mount on any flat, non-combustible vertical surface.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

Example: TWA 100M 120 LPI

(Order separately)
Photoelectric control kit, 120V
Photoelectric control kit, 120V
Photoelectric control kit, 208V, 240V, 277V
Photoelectric control kit, 347V
Wireguard

Lamp/Fixture Data				
Wattage	Ballast	Lamp type	Base type	
High pressur	re sodium (med/clear	1		
35	RNPF	E17	medium	
50	RNPF	E17	medium	
70	RNPF	E17	medium	
100	RNPF	E17	medium	
Metal halide	Metal halide (med(70/100/150)/mog(175)/clear)			
50	HX-HPF	E17	medium	
70	HX-HPF	E17	medium	
100	HX-HPF	E17	medium	
Fluorescent (double twin-tube/triple-tube)				
22DTT	magnetic, NPF	T4	GX32D-2	
26DTT	electronic, HPF	T4	GX32D-3	
28DTT	magnetic, NPF	T4	GX32D-3	
32TRT	electronic, HPF	T4	GX24Q-3	
42TRT	electronic, HPF	T4	GX24Q-3	

NOTES:

<u>Installed</u>

L/LP

CSA

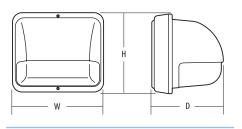
DNA

DRI Black

DMB

DWH White DSS

- 120V or 277V only.
- 3 120VR-NPF is standard, 208V, 240V, 277V, 347V and TB are high-reactance high
- $4\quad Consult factory for availability in Canada.\\$
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional multi-volt electronic ballast (for compact fluorescent) capable of operating any line voltage from 120V-277V.
- Available with CF only, n/a MVOLT.
- 8 Not available with multi-tan hallast
- 9 Lamp not included.
- $10 \quad Quartz lamp\ wattage\ not to\ exceed\ ballast\ wattage\ rating;\ n/a\ compact\ fluo-notional and the property of the pr$
- 11 Black finish only.





For entrances, stairwells, corridors and other pedestrian areas. Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.

Features

Housing – Rear housing is rugged, die-cast aluminum. Front cover is one-piece, UV-resistant, injection-molded polycarbonate, internally painted. Captive external hardware is treated for corrosion resistance and includes slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Front housing and refractor are onepiece, injection-molded, UV stabelized polycarbonate. One-piece, die-formed reflector is diffused aluminum. Refractor is clear polycarbonate, providing **IES cutoff distribution** and maximum lateral light output. Standard finish is dark bronze polyester enamel. Front cover sealed with one-piece, high temperature silicone gasket to inhibit entrance of outside contaminants. Electrical – MH: High-reactance, high-power factor standard. HPS: Reactor normal power factor standard. HPF available. UL Listed. Electrical components mounted to the cast aluminum housing, promoting maximum heat dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

Socket – HID is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V and 4KV pulse rated.) Fluorescent is 2-pin (DTT) or 4-pin (TRT), positive latching thermoplastic.

Installation – Top 1/2" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use condulet tee (not included). Mount on any flat, non-combustible vertical surface.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

TWAC

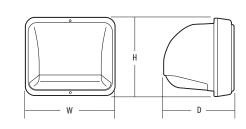
Contour®



Example: TWAC 100S 120 LPI

Accessories	(Order separately)
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V or 277V
RK1 PEB3 CSA	Photoelectric control kit, 347V
TWAWG	Wireguard

	Lamp/Fixtu	re Data		
		Lamp	Base	
Wattage	Ballast	type	type	
High pressure s	sodium (med/clear)			
35	RNPF	E17	medium	
50	RNPF	E17	medium	
70	RNPF	E17	medium	
100	RNPF	E17	medium	
Metal halide (r	med(70/100/150)/m	og(175)/clea	<u>r)</u>	
50	HX-HPF	E17	medium	
70	HX-HPF	E17	medium	
100	HX-HPF	E17	medium	
Fluorescent (do	ouble twin-tube/trip	<u>le-tube)</u>		
22DTT	magnetic, NPF	T4	GX32D-2	
26DTT	electronic, HPF	T4	GX32D-3	
28DTT	magnetic, NPF	T4	GX32D-3	
32TRT	electronic, HPF	T4	GX24Q-3	
42TRT	electronic, HPF	T4	GX24Q-3	



/ LITHONIA LIGHTING

Ordering Information

Desig	nation	Voltage
TWAC TWAC TWAC TWAC Metal TWAC TWAC	100S ³ halide 50M 70M	120 208 ⁴ 240 ⁴ 277 347 TB ⁵ MVOLT ⁶
TWAC	100M	
<u>Compact</u>	<u>fluorescent</u>	
TWAC	22DTT (2-pin)	
TWAC	26DTT (4-pin)	
TWAC	28DTT (2-pin)	
TWAC	32TRT (4-pin)	
TWAC	42TRT (4-pin)	

NOTES:

- 1 120V only.
- 2 120V or 277V only
- 3 120V R-NPF is standard, 208/240/277/347 and TB are high reactance high power factor.
- $4\quad Consult factory for availability in Canada.\\$
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional multi-volt electronic ballast (for compact fluorescent) capable of operating any line voltage from 120V-277V.
- 7 Not available with multi-tap ballast.
- $8 \quad \text{Available with CF only, n/a MVOLT.} \\$
- 9 Lamp not included.
- ${\bf 10}\quad {\bf Quartz\, lamp\, wattage\, not to\, exceed\, ballast\, wattage\, rating.}$
- 11 Black finish only.
- 12 HID only, n/a QRS, EC or NOM.

Options <u>Installed</u> Single fuse, 120V, 277V, 347V⁷ Double fuse, 208V, 240V⁷ DF Internal slow-blow fusing8 **GMF** High power factor ballast (HPS only) XHP Emergency circuit^{9,10} Quartz restrike system^{9,10} Enhanced corrosion resistance (rear housing) CRT Non-stick protective coating (rear housing)¹¹ CSA Certified NOM NOM Certified (consult factory) Photocell (button type)⁷ LPI Lamp included L/LP Emergency circuit 12V. 35W lamp included 12 DC12 Emergency circuit 12V. 2/35W lamps included¹² 2DC12 Emergency circuit 12V. 20W lamps included 12 DC2012 2DC2012 Emergency circuit 12V. 2/20W lamps included 12 Architectural colors (optional) DNA Natural aluminum DBL Black DMB Medium bronze DWH White Sandstone DSS

 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless \ otherwise \ noted.$

Height: 10(25.4)
Width: 11-1/2(29.2)
Depth: 8-15/16(22.7)
Weight: 10lbs(4.53 kg)

www.lithonia.com, keyword: TWAC

TWR



Intended Use

For mounting above entryways and loading docks. Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.

Features

Housing – Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

Optics – (TWR1, TWR2) Refractor is prismatic borosilicate glass. Reflector is die-formed anodized stippled aluminum. TWR1 medium-base lamp and TWR2 mogul-base lamp included in carton as standard.

Electrical – Quad-tap, constant wattage autotransformer (175M-400M; 250S-400S). High reactance, high power factor (70S-150S; 70M-150M). Ballast is copper wound and 100% factory tested.

Installation – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

Listings

UL Listed standard to US and Canadian safety standards. CSA Certified (see Options). UL/C-UL Listed for wet locations.

Ordering Information



Voltage
TB¹
120/347²
120
MVOLT

Options

LPI Lamp included (std.)

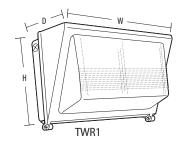
CSA CSA Certified

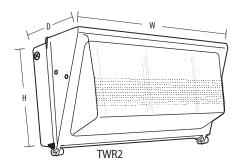
PE Photoelectric cell button type⁴

Accessories (Order separately)

TWR1WG Wireguard
TWR2WG Wireguard
RK1 TWR1FA Lens repair kit
RK1 TWR2FA Lens repair kit

Example: TWR1 705 TB LPI





Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<u>TWR1</u>	TWR2250W	TWR2400W
Height:	9(22.86)	9-1/4(23.50)	9-1/4(23.50)
Width:	13(33.02)	17-7/8 (45.40)	17-7/8 (45.40)
Depth:	7-3/8(18.75)	9-3/8(23.81)	12-1/2(31.75)
Max. weight:	18 lbs (8.1 kg)	26 lbs (11.8 kg)	31 lbs (14.07 kg)

NOTES:

- 1 TBis 120V, 208V, 240V, 277V.
- 2 Only available with CSA.
- 3 Available with MVOLT or 120V with PE only.
- 4 Available with 175M, 250M, 400M, 2/42TRT (120 volt) only. Consult factory for other wattage/voltage availability.



For building and wall mounted applications. Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.

Features

Housing - Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

Optics - Tempered glass lens and one-piece anodized aluminum reflector provide IES cutoff distribution. Optional full cutoff visor avialable. TWR1C medium-base lamp and TWR2C mogulbase lamp included in carton as standard.

Electrical - Quad-tap, constant wattage auto

transformer (175M-400M; 250S-400S). High reactance, high power factor (70S-150S; 70M-150M). Ballast is copper wound and 100% factory tested.

Installation – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

Listings

UL Listed to US and Canadian safety standards. CSA Certified (see Options). UL/C-UL Listed for wet locations.



TWRC



Example: TWR1C 175M TB LPI

Ordering Information

Design		Voltage	
High pressure sodium TWR1C 70S TWR1C 100S TWR1C 150S TWR2C 250S TWR2C 400S	Metal h TWR1C TWR1C TWR1C TWR2C TWR2C	70M 100M 175M 250M	TB ¹ 120/347 ² 120

NOTES:

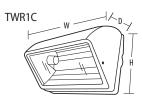
- 1 TBis120V,208V,240V,277V.
- 2 Only available with TWR1CCSA.
- Available with 175M, 250M, 400M, 400S (120 volt) only. Consult factory for other wattage/voltage availability.

	Options
LPI	Lamp included (std.)
CSA	CSA Certified
PE	Photoelectric cell button type ³

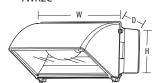
Accessories	(Order separately)
TWR1CWG	Size 1 wireguard
TWR2CWG	Size 2 wireguard
RK1 TWR1CFA	Size 1 lens repair kit
RK1 TWR2CFA	Size 2 lens repair kit
TWRIC FCV	Size 1 full cutoff visor
TWR2C FCV	Size 2 full cutoff visor

Dimensions are shown in inches (centimeters) unless otherwise noted

	IVVIIIC	TVVIIZC
Height:	10-1/4(26)	14-1/2(36.8)
Width:	13 (33)	17-13(43.5)
Depth:	8-15/32(21.5)	10(25.4)
Nax. weight:	18 lbs (8.1kg)	25 lbs (11.3kg)



TWR2C



Cast Wall Packs, Glass Refractor

ΓWRS



Example: TWR1S 175M TB LPI

Intended Use

For building and wall mounted applications. Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.

Features

Housing – Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

Optics - Tempered glass lens and one-piece anodized aluminum reflector provide IES full cutoff distribution. Medium-base lamp included in carton as standard.

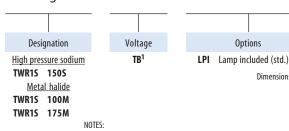
Electrical - Quad-tap, constant wattage autotransformer for 175M. High reactance, high power factor for 100M and 150S. Ballast is copper wound and 100% factory tested.

Installation – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

Listings

UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations.

Ordering Information



1 TBis 120V, 208V, 240V, 277V.

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height: 16-1/2(41.9) Width: 12-1/4(31.2) Depth: 10-3/4(27.3) Max.weight: 15.5 lbs (7.0kg)







LITHONIA OUTDOOR

TWS



Intended Use

For entrances, stairwells, corridors and other pedestrian areas.

Features

Housing - Cast aluminum backplate on which electrical components are mounted for maximum heat dissipation. Gasketing between backplate and front cover prevents entry of water and comtaminants. External hardware includes Phillips head and tamperproof hex-head fasteners.

Optics - Front cover/refractor is injection-molded, one-piece, UV stabilized polycarbonate. The optical system is sealed and gasketed to inhibit the entrance of outside contaminants.

Electrical - 35-70W HPS and 50W MH use a 120V normal power factor ballast, and lamp is included as standard. The 13W compact fluorescent uses a 120V electro-magnetic ballast and includes a twin-tube fluorescent lamp as standard. The 26-42W compact fluorescent uses a multivolt electronic ballast. Options include 120277V operation and 26W, 32W or 42W tripletube fluorescent lamp (not included).

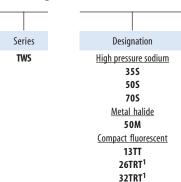
Socket - HID: Medium-base porcelain socket, vertically oriented with copper alloy nickel plated screw shell and center contact. (UL Listed 660W, 600V). CFL: The 26-42W fluorescent uses a universal 4-pin socket for 26W, 32W or 42W operation based on lamp choice. The 13W fluorescent uses a 2-pin socket.

Installation – Units for wall mounting include two 3/4" knockouts for routing electrical conduit.

Listings

UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations.

Ordering Information



42TRT¹

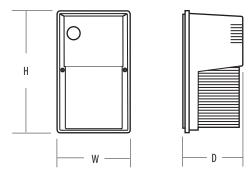
Voltage 120 MVOLT2

Options (blank) Dark bronze finish (std.) **DWH** White finish **Installed** Photoelectric cell 3 PE LPI Lamp included L/LP Less lamp standard for 26 - 42TRT Example: TWS 50M 120 PE LPI

(Order separately) Accessories RK1 PEB1 Photocell kit, (120V only)

Wireguard

TWSWG



Dimensions are shown in inches (centimeters) unless otherwise noted.

Height: 11(27.9) Width: 6-7/8(17.4) 5-1/4(13.3) 4.9 lbs (2.2kg) Max. weight:

- 1 Ships as 26/42TRT. Operates 26-42W as standard based on lamp choice.
- 2 Not available with MH, HPS or 13TT.
- 3 Not available with MVOLT.



For entrances in motels, condominiums and other pedestrian areas.

Features

Housing - Die-cast aluminum housing with electrostatically applied dark bronze polyester powder finish. White finish available.

 $Optics-Opal\,glass\,or\,white\,polycarbonate\,available.$

Electrical - HPS-120V reactor normal power factor (RNP) ballasts are copper wound and 100% factory tested. Fluorescent is electromagnetic

Socket - Medium-base porcelain socket, vertically oriented with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V.) Fluorescent 2-pin socket: 22DTT-

Installation - Wall and ceiling mounted.

Listings

UL Listed. UL Listed for wet locations.

WG/WP



Example: WGCW 705 120 LPI

UL Listed.

GX32D-2, 28DTT-GX32D-3.

Ordering Information

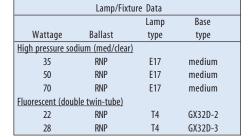
	Designation
	High pressure sodium
35S	White polycarbonate, cylinder/wall
50S	White polycarbonate, cylinder/wall
70S	White glass, cylinder/wall
35S	White polycarbonate, globe/wall
50S	White polycarbonate, globe/wall
70S	White glass, globe/wall
	<u>Incandescent</u>
100I	White glass, cylinder/wall
100I	White glass, globe/wall
601	White glass, cylinder/ceiling
601	White glass, globe/ceiling
601	White polycarbonate, cylinder/wall
601	White polycarbonate, globe/wall
601	White polycarbonate, cylinder/ceiling
	<u>Fluorescent</u>
22DTT	(2-pin), white polycarbonate, cylinder/wall
28DTT	(2-pin), white polycarbonate, cylinder/wall
28DTT	(2-pin), white polycarbonate, globe/wall
	50S 70S 35S 50S 70S 100I 100I 60I 60I 60I 60I 22DTT 28DTT

Voltage 120

Options (blank) Dark bronze finish (std.) DWH White finish Lamp included (std.)¹

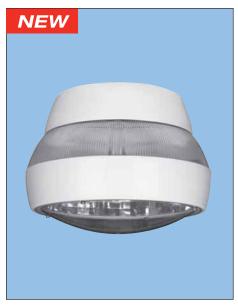
NOTES:

1 Not included with incandescent fixtures.





PGR



Ordering Information

Designation Wattage Voltage High pressure sodium PGR 120 2085,6 **70S** 240^{5,6} 1005 277⁶ **150S** Metal halide 347⁶ 480^{6,7,8} 70M TB^{6,8,9} 100M MVOLT^{6,10,11} 150M TV0LT12,13 175M¹ 200M² Electronic metal halide³ 50M 70M 50MHC 70MHC Compact fluorescent 2/42TRT 2/57TRT 2/70TRT Induction lighting 85IL4 Dimensions are shown in inches (centimeters) unless otherwise noted.

11-1/2(29.2) Height: Max. diameter: 15(38.1) 20 lbs (9 kg) Max.weight:



Intended Use

For parking garage applications.

Features

Upper housing - Rugged, die-cast aluminum with one-piece silicone gasketing. Standard finish is white corrosion-resistant polyester powder paint. Other architectural colors available.

Lower Assembly - Precision injection-molded, UV stabilized acrylic. Hinged and secured with four stainless steel screws. Polycarbonate available.

Mounting - Fully silicone-gasketed, galvanized steel plate. Surface mounts to recessed box or pendant mounts to industry standard J-boxes. The quick-mounting bracket doubles as a hanger for the fixture allowing for trouble-free electrical connections. The fixture twist-locks into place in a firm, secure fashion.

Optics - Lower semi-specular, faceted, vacuum metalized aluminum reflector and upper-precision, injection-molded, prismatic acrylic refractor. Polycarbonate refractor available.

Electrical - HID: All HPS lamps as well as 100M and 150M lamps are high reactance autotransformer, high power factor. 175M lamp is a constant-wattage autotransformer. 200M lamp requires a Super CWA pulse start ballast. Ballasts are copper wound and 100% factory tested. 180°C Class H insulation system. 50 watt - 70 watt metal halide with electronic ballast - ballast is high power factor, <15% THD with starting temperature of -22°F (-30°C). Medium base, UL Listed 660W, 600V, 4K socket. Compact Fluorescent: ballast is Class P, electronic, high power factor, <10% THD with starting temperature of 0°F (-18°C). Sockets are high temperature thermoplastic with integral retention clip. Induction: High Frequency Generator - Supplies high frequency power to the discharge vessel (lamp) to initiate and maintain a gas discharge for a rate 100,000 hours of life (Optimized for ambient temperatures ranging from -40° to 20°C. Higher ambient temperatures may reduce lamp life.) Power Coupler - Induction coil transfers energy from the generator to the discharge vessel. Discharge Vessel - Glass bulb contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the discharge vessel is coated with a fluorescent powder which produces light at 3000K color and 80+ CRI.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for 25°C ambient operation and wet locations.US patent no. D402,075. Canadian patent 86779.

Example: PGR 175M TB LPI

Accessories	(Order separately
RK1 T20BIT	Hex base driver bit, Torx® TX20, for tamper- resistant screws with center reject pin
RK1 T20DRV	Torx® TX20 screwdriver for use with tamper- resistant screws with center reject pin

Options/accessories

LPI Lampincluded⁶

Lamp factory installed LP

L/LP Less lamp⁶

Installed

House-side glare shield⁶ HS

House-side glare shield ready⁶

Frosted lower lens FLR

Downlight focused, (n/a HA or HS)^{6,8}

Polycarbonate refractor/lower housing/lens

TP Tamper-resistant lens screws

Electronic ballast8 **GEB**

Super CWA pulse start ballast (available with 150M, 175M and 200M only)

Single fuse, 120V, 277V, 347V (n/a TB)^{6,8,14}

Double fuse, 208V, 240V, 480V (n/a TB)^{6,8,14}

GMF Internal slow blowing fuse (n/a MVOLT)¹⁵

Quartz restrike system (250W max.)^{6,8,16}

QRS time delay (250W max.)^{6,8,16,17} QRSTD

Emergency circuit^{6,16,18} EC

KiloWatch 120V control relay^{6,8,19} KW1

Enhanced corrosion resistance

Non-stick protective coating (black finish only)

40°C ambient^{6,8,20}

CSA Certified CSA

NOM NOM Certified, consult factory

Shipped separately

Offset junction box

YK Yoke mount

Bird deterrent shroud (for use with non-surface mounting options; rigid coundit, YK or OJB)

- 1 May be ordered with SCWA option.
- Must be ordered with SCWA option.
- 3 Must be ordered with GER ontion
- Must be ordered with LP option. Optimized for use in areas where ambient temperature does not exceed 20°C. Higher ambient temperatures may reduce lamp life.
- Consult factory for availablity in Canada.
- Not available with induction
- Available in 150S, 175M and 200M only.
- Not available with compact fluorescent.
- Optional multi-tap ballast 120, 208, 240, 277 (120, 277, 347 for Canada).
- 10 Optional multi-volt electronic ballast capable of operating on any line voltage from 120V-277V. Use for both compact fluorescent and electronic HID.
- 11 Available in compact fluorescent, 50M, 50MHC, 70M and 10MHC only.
- ${\bf 2} \quad {\bf 0} ptional\,tri-volt\,electronic ballast\,capable\,of\,operating\,on\,any\,line\,voltage\,from$ 200V-277V.
- 13 Available with induction only
- 14 Not available with multi-tap or multi-volt ballasts.
- 15 Available with electronic, HID only.
- 16 Lamp not included.
- 17 Not available with KiloWatch
- 18 Lamp wattage not to exceed ballast wattage.
- 19 For specific ordering information, see KiloWatch brochure, form no. 720, 146 or consult factory.
- 20 Not available with HS (house-side glare shield) or 200M.



For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to acrylic environmental compatibility chart on page 735 for suitable uses.

Features

Housing - Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Induction lighting: High Frequency Generator/ Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

Optics - One-piece, injection-molded, 100% virgin acrylic refractor. TGL Type V (A165), Type II (A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

Socket - Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickelplated screw shell and center contact. Mediumbase (100M only): UL Listed 660W, 600V, 4KV pulse rated.

Discharge Vessel/Lamp – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.



Example: TGL 175M A165 TB PM

See pages 386

factory

Ordering Information

Series	Wattage	Optical ²
High pressure sodium TGL	<u>Type V</u> 70S 100S	Type II A165 A162 A165 A162
TGR	150S 70S 100S 150S	A165 A162 A125 A121 A125 A121 A125 A121
Metal halide	1303	RIZJ RIZI
TGL	100M 175M 200M	A165 A162 A165 A162 A165 A162
TGR	250M ¹ 100M 175M	A165 A162 A125 A121 A125 A121
<u>Induction</u>		
TGL	851L 551L	A165 A162 A165 A162

Voltage Ballast 120 Metal halide and high pressure sodium 2083,4 (blank) Standard magnetic ballast **240**^{4,5} 277 347 480⁴ LLRPSL Linear reactor pulse start TB^6

Pulse start metal halide

SCWA Super constant wattage autotransformer See pages 384-385 for details.

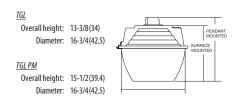
NOTES:

- 1 Not available with SCWA.
- $2\quad \text{Polycarbonate lens: Replace \textbf{A} in optical nomenclature with \textbf{P} for polycarbon terms of the
- 3 Requires CWI option in Canada. Only available in 250M.
- Requires CWI or MRB option in Canada for HPS. Available for 70-150W.
- 5 220V and 240V, 50 and 60 hertz ballasts available for use with US metal halide and high pressure sodium lamps
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).

Options/accessories	
6-397. HID lamps are available with luminaires	. Consul

Lamp/fixture data				
	Standard	Weigh	ts/mtg.	
Wattage	ballast	lbs.	kg.	height
	TGL	Type V		
High pressur	e sodium (mog/	clear)		
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
Metal halide	[med(100)/mo	g(175-25	0)/clear	l
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
	TGR	Type V		
High pressur	e sodium (mog/	clear)		
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
Metal halide [med(100)/mog(175)/clear]				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

Dimensions are shown in inches (centimeters) unless otherwise noted.



<u>TGR</u>		
Overall height:	11-1/4(28.6)	
Diameter:	12-1/2(31.8)	PENDANT MOUNTED
		SURFACE MOUNTED
TGR (PM)		
Overall height:	13-3/8(34)	
Diameter:	12-1/2(31.8)	

Ambient Parameters	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TGR			
TGL 100-175M			
TGL 250M			
TGL 70-150S			
TGL 55-85IL			
			= Compatabil

www.lithonia.com, keyword: TGL and TGR



LITHONIA OUTDOOR

520

Intended Use

For parking garage applications.

Features

Housing – Rugged, heavy-gauge aluminum housing. Square shape, continuous welded seams for weather-tight integrity. Extruded-aluminum door frame has an impact-resistant, tempered glass lens. Door frame is sealed to housing by EPDM closed-cell gasket. Direct mounting to recessed J-box is standard; yoke or recessed mountings optional. Housing will accommodate both top and side branch-circuit wiring and has internal splice compartment. Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available. Stainless steel housing also available.

Optics - Reflectors are anodized, hydroformed aluminum. Four cutoff distributions available: Type II (roadway), Type III (asymmetric), Type IV (forward throw) and Type V (symmetric). Type V reflector is vertically lamped, all others horizontally lamped. Reflectors are field-interchangeable and hinge out for easy removal during installation/maintenance.

Electrical - All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module. Positivelocking, quick-disconnect on primary and secondary circuits. Medium-base porcelain socket standard. Mogul-base porcelain socket for 175W metal halide. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for damp locations. SS option: UL Listed for 25°C ambient and damp location. RMG option: UL Listed for recessed mounting, wet locations and covered ceilings only.

Ordering Information

Desig	gnation
High pres	sure sodium 50S
KPS	70S
KPS	1005
KPS	150S
<u>Meta</u>	<u>l halide</u>
KPS	100M
KPS	150M
KPS	175M

	Distribution
R2 R3 R4 R5	Type II Roadwa Type III Asym Type IV FT Type V Sym.

Voltage
120
208 ¹
240 ¹
277
347
480 ¹
TB ²

Example: KPS 150S R2 120 EC LPI

	1	
Jotions	/accesso)ries

		Options/accesso
<u>Installed</u>		
LPI Lam	p included	

L/LP Less lamp Single fuse, 120V, 277V, 347V SF

Double fuse, 208V, 240V, 480V QRS Quartz restrike system (100W max., 120V lamp not included) EC Emergency circuit (100W max., 120V lamp not included)

MOG Mogul-base socket

CR Enhanced corrosion resistance

HS House-side shield (R3/R4 only)

Yoke mount

SS Stainless steel housing³

Recessed mount 2" x 2" (grid ceiling)³ RMG

WL Wet location

SCWA Super CWA pulse start ballast, requires R5 distribution (n/a HPS or 100M)

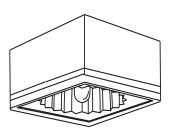
CSA CSA Certified

NOM NOM Certified (consult factory)

For optional architectural colors, see page 543.

Shipped separately

VG Vandal guard



Dimensions are shown in inches (centimeters) unless otherwise noted

Length: 16-3/4(42.6) Width: 16-3/4(42.6) 10-1/2(26.7) Depth: Max. weight: 36 lbs (16 kg)

NOTES:

- 1 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- $3\quad SS \, and \, RMG \, cannot \, be \, ordered \, together.$



For parking garages, convenience stores, hotels and walkways.

Features

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Die-cast aluminum door frame has prismatic, impact-resistant, tempered glass; drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone. Surface mounted utilizing four 0.5" mounting holes and one 0.875 wire-entry hole (mounting hardware not included). Dark bronze (DDB) corrosion-resistant polyester powder finish is standard. Other architectural colors available.

Optics – Reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – HID: Ballast is high-reactance, high-power factor (150W) or high-power factor, constant-wattage autotransformer (175-400W MH & HPS). Induction: High Frequency Generator -

Supplies high frequency power to the discharge vessel (lamp) to initiate and maintain a gas discharge for a rate 100,000 hour of life (Optimized for ambient temperatures ranging from -40° to 25°C, higher ambient temperatures may reduce lamp life).

Socket – Mogul-base porcelain socket, 4KV pulse rated. Position-oriented socket standard on all metal halide units.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. UL Listed for 25° C ambient temperature. For covered ceiling, mount on concrete, steel or aluminum. Not for use in dwellings.





Example: KACM 400M FP 120 LPI

Ordering Information

Designat	ion
High pressure	sodium
KACM	150S
KACM	250\$
KACM	400S
Metal ha	<u>lide</u>
KACM	150M ¹
KACM	175M
KACM	200M ²
KACM	250M ¹
KACM	320M ²
KACM	350M ²
KACM	400M ¹
Induction	<u>on</u>
KACM	165IL ³

Distribution

FP Flat prismatic lens (C73T)⁴
DPA Drop prismatic lens (acrylic)
DPP Drop prismatic lens (polycarbonate)

Voltage 120⁴ 208^{4,5} 240^{4,5} 277⁴ 347⁴ 480^{4,5} TB^{4,6} TVOLT⁷

Options/accessories <u>Installed</u> Lamp included4 LPI L/LP Less lamp⁴ Lamp included LP SF Single fuse, 120V, 277V, 347V (n/a TB)⁴ Double fuse, 208V, 240V, 480V (n/a TB)⁴ DF QRS Quartz restrike system (250W max., 120V lamp not included)⁴ EC Emergency circuit (lamp not included, 250W max.)4

YK Yoke mount
TC Thru-wire condulet tee capability⁴

SCWA Super CWA pulse start ballast (n/a HPS or 175M)⁴

CSA CSA Certified⁴

NOM NOM Certified (consult factory)⁴

Shipped separately⁸
KACVG Vandal guard^{4,9}
KACWG Wire guard

NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Must be ordered with LP option.
- 4 Not available with 1651L.
- $5 \quad {\sf Consult factory for availability in Canada}.$
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 165ILonly
- 8 May be ordered as an accessory.
- 9 FP lens only.

 $\label{lem:problem} {\sf Dimensions} \ are \ shown \ in \ \textbf{inches} \ (\textbf{centimeters}) \ unless \ otherwise \ noted.$

Length: 17-1/2(44.5)
Width: 17-1/2(44.5)
Depth: FP option 7-1/8(18.1)
DP option 11-1/8(28.3)

Max. weight: 40 lbs (18.1 kg)





LITHONIA OUTDOOR

ASF

Aeris™



Intended Use

For landscape and facade lighting.

Features

Housing – Rugged, die-cast, single piece low copper alloy aluminum housing. Die-cast door frame has impact-resistant, tempered glass lens. Door frame is fully sealed with a closed cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder. Other architectural colors available.

Optics – Anodized aluminum reflectors; segmented, specular or hammertone finish. Reflectors are interchangeable and allow for tool-less access to electrical components.

Electrical - 150W and below utilizes a high reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Compact fluorescent uses an electronic high fre-

quency ballast. Optional pulse start ballast available. Quick disconnect plugs easily disconnect reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested.

Socket - Porcelain, medium base socket for ASF1, mogul-base socket for ASF2, with copper alloy, nickel-plated screw shell and center contact (UL Listed 660W, 600V, 4KV pulse rated). Fluorescent is four-pin positive latching thermoplastic. UL Listed.

Installation - ASF1 standard mounting is cast 3/4" threaded knuckle. ASF2 standard mounting is heavyduty, cast-aluminum swivel which fits over standard 1-1/2" (1.9" O.D.) to 2" (2.38" O.D.). Optional yoke mounting available in both sizes.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified (see Options). IP66 rated. Patents pending.

Example: ASF1 175M WDF 120 SF LPI

Ordering Information

Designation Distribution High pressure sodium NSP Narrow spot ASF1 50S Spot ASF1 70S HSP Horizontal ASF1 100S ASF1 **150S** MDF Medium flood ASF2 200S WDF Wide flood ASF2 2505 VFW Vertical 400S¹⁷ ASF2 flood-wide Metal halide VFN Vertical ASF1 50M flood- narrow ASF1 70M 100M ASF1 ASF1 150M ASF1 175M Voltage ASF2 200M² 120 ASF2 250M¹ 2085 ASF2 320M² 2405 ASF2 350M² 277 400M^{1,3} ASF2 347 Compact fluorescent⁴ 4805 ASF1 26DTT TB⁶ ASF1 2/26DTT TBV 32TRT MVOLT ASF1 2/32TRT 42TRT ASF1 ASF1 2/42TRT ΔSF1 57TRT

Installed (blank) ASF1 3/4" threaded knuckle (std.) (blank) ASF2 swivel (std.) YK Yoke mount **Shipped separately** AFSTMTHK Stanchion mount for 3/4" THK option⁹ AFSTM Stanchion mount AFTM Tenon base mount AFWMA Wall-mount arm AFWMATHK Wall-mount arm for 3/4" THK option⁹ AFWMPTHK Wall-mount plate for 3/4" THK option⁹ AFTS Architectural tenon slipfitter for 3/4" THK option9 AFTMBTHK Twin mounting bar for 3/4" THK option⁹ AFTMB Twin mounting bar AFJB Architectural J-box for 3/4" THK option9 FCRA45 Cross arm adaptor 10 FPMB Wall/pole mounting bracket¹⁰

Optional mounting

Installed Single fuse, 120V, 277V, 347V (n/a TB or TBV) Double fuse, 208V, 240V, 480V (n/a TB or TBV) Internal slow-blow fusing (n/a MVOLT: CF only) Emergency circuit (100W max., lamp not included.)¹¹ Quartz restrike system (100W max., lamp not included)11 Ouartz restrike time delay (100W max., lamp not included)1 Enhanced corrosion resistance CRT Non-stick protective coating Photoelectric cell, button type (n/a TB, TBV or MVOLT)13 Super CWA pulse start ballast¹⁴ CSA Certified CSA NOM NOM Certified LPI Lamp(s) included Less lamp(s) L/LP Two 1-lamp ballasts (compact fluorescent only)12

Options/accessories **Shipped separately** Outdoor remote ballast¹⁵ HRBW HID remote ASF1GS Glare shield (upper weatherproof or bottom visor) (black) ASF1EV Eggcrate visor Indoor remote ballast 15 (black) HRB HID remote ASF1FV Full visor ASF1BD Barn door ballast (white) Architectural colors 16 ASF1BVG Vandal guard DDBT Dark bronze (std.) ASF1FV/BVG Full visor and vandal **DSST** Sandstone quard **DNAT** Natural aluminum ASF2GS Glare shield (upper **DWHG** White or bottom visor) DBLB Black Eggcrate visor Optional textured colors ASF2EV (black) **DBNH** Bronze ASF2FV Full visor **DSPD** Dark gray ASF2BD Barn door **DSPJ** Light gray ASF2BVG Vandal guard **DSPE** Green ASF2FV/BVG Full visor and vandal **DSPG** Dark red guard **DSPF** Rust DSPH Red

NOTES

- May be ordered with SCWA
- Must be ordered with SCWA.
- 3 ED-28 reduced jacket lamp required
- Available with WDF distribution only.
- Consult factory for availability in Canada.
- Optional five-tap ballast (120V,208V,240V,277V,180V; not available in Canada)
- Multi-voltelectronic ball ast for compact fluorescent; ships standard on CFL wattages.
- For use with THK mounting only
- For use with yoke mounting only. Must include yoke mount option on fixture.
- 11 ASF2 only. EC, QRS, and QRSDT options cannot be ordered together.
- 12 ASF1 only
- ${\tt B} \quad {\tt Mustbe} \, {\tt ordered} \, {\tt with} \, {\tt fixture}; {\tt can} \, {\tt notbe} \, {\tt field} \, {\tt installed}.$
- Not available with HPS or CFL.
- 15 Consult factory for availability
- 16 Additional architectural colors available: see www.lithonia.com.for.more.information
- Not available with NSP or SP distributions.

		Lamp/Fixture	Data			
			Lamp	Base	NEMA	
Wattage	Distributio	n Ballast	type	type	dist.	
High press	ure sodium	(med/mog/clea	<u>r)</u>			Ī
150	HSP	HX-HPF	E17	medium	5x3	
150	WDF	HX-HPF	E17	medium	7x6	
400	HSP	CWA	ET18	mogul	7x3	
400	WDF	CWA	ET18	mogul	7x6	
Metal hali	de (med/mo	og/clear)				
175	NSP	CWA	E17	medium	1x2	
175	HSP	CWA	E17	medium	5x3	
175	WDF	CWA	E17	medium	7x6	
400	NSP	CWA	ED28	mogul	1x3	
400	HSP	CWA	ED28	mogul	7x5	
400	WDF	CWA	ED28	mogul	7x6	
Compact fl	luorescent (d	double twin-tub	e/triple	e-tube)		
57TRT	WDF	electronic, HPF	T4	GX24Q-5	7x6	
70TRT	WDF	electronic, HPF	T4	GX24Q-6	7x6	
						_



ASF1

2/57TRT

Width:

Length:

Overall height:

Max.weight:

Dimensions are shown in inches (centimeters) unless otherwise noted.

2.0 ft

11

21.5

18.5

35 lbs

1.2ft

7.62

15.5

10.80

20 lbs

70TRT





For landscape and facade lighting.

Features

Housing - Extruded aluminum body with cast end caps. Cast aluminum door frame is hinged and secured by stainless steel fasteners. Closedcell silicone gasket prevents entrance of contaminants. Clear, impact-resistant, tempered glass lens with silk screen. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics - Anodized aluminum reflectors; segmented, specular or hammertone finish. Reflectors are field interchangeable.

Electrical – 150W and below utilizes a high-reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Ballast is copper wound and 100% factory tested. UL Listed.

Socket - Horizontal porcelain socket (KFL2 medium base, KFL3 mogul base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V 4KV pulse rated.

Installation - Standard mount is two-piece, heavy-duty, cast-aluminum swivel with integral wiring compartment (pictured). Swivel fits over standard 1-1/2" (1.9" OD) to 2" (2.38" OD) tenon. Corrosion-resistant painted steel yoke with 3foot, 16/3 SEO cable or threaded knuckle mount (1/2" NPT) are optional.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP66 rated.



Example: KFL2 70S HPN 120 SF LPI

Optional mounting

Installed

- Single fuse, 120V, 277V, 347V (n/a TB)
 - Double fuse, 208V, 240V, 480V (n/a TB)
- Photoelectric cell, button type (n/a TB or 480)
- Quartz restrike system (KFL3 only, 100W max., lamp not included)

Options/accessories

- Emergency circuit (KFL3 only, 100W max., lamp not EC included)
- Enhanced corrosion resistance
- SCWA Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)
- LPI Lamp included
- L/LP Less lamp
- CSA CSA Certified
- NOM NOM Certified (consult factory)

Shipped separately¹⁰

- **UV** Upper visor
- Eggcrate visor (black) FV Full visor
- Bottom visor
- WG
- Wireguard BD Barn door
- HLV Horizontal louver (black)
- VLV Vertical louver (black)
- **BVG** Bubble vandal quard

UV/BVG Upper visor and bubble vandal guard

 $For optional \, architectural \, colors, see \, page \, 543.$

Ordering Information

	_				
		-			
De	signation		Dis	stribution	Vol
-	essure sodium		SP	Spot	12
KFL2 KFL2	70S 100S		BP	Horizontal flood ⁴	2
KFL2 KFL3	150S 250S		RN	Horizontal spot, narrow	2:
KFL3	4005		RM	Horizontal	48
Metal h	alide 70M			spot, medium	Т
KFL2	100M 150M ¹		RW	Horizontal spot, wide	
KFL2 KFL2	175M		HPN	Vertical flood, narrow	
KFL3 KFL3	200M ² 250M ¹		нРМ	Vertical	
KFL3	320M ²			flood, medium	
KFL3 KFL3	350M ² 400M ^{1,3}		HPW	Vertical flood, wide	
			FT	Forward throw	

Lamp/Fixture Data

type

E17

E17

ET18

ET18

ED17

ED17

BT28

BT28

Ballast

HX-HPF

HX-HPF

CWA

CWA

CWA

CWA

CWA

CWA

Lamp Beam spread NEMA

H°xV°

142x127

39x12

60x13

144x140

27x15

147x127

42x17

146x140

3x1

7x6

4x1

7x7

2x1

7x6

3x1

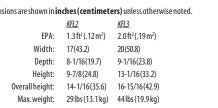
7x7

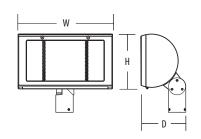
	- p
Installed	
YK	Yoke mount
THK	Threaded knuckle mount
Shipped separately	
AFSTM	Stanchion mount
KFLSTMTHK	Stanchion mount for 1/2" THK option ⁷
AFTM	Tenon base mount
AFWMA	Wall mount arm
KFLWMATHK	Wall-mount arm for 1/2" THK option ⁷
FCRA45	Crossarm adapter ⁸
TS	Tenon slipfitter ⁸
AFTMB	Twin mounting bar
KFLTMBTHK	Twin mounting bar for 1/2" THK option ⁷
FPMB	Wall/pole mounting bracket ⁸
AJB	Architectural J-box for 1/2" THK option ⁷
Outdoor remote bal	<u>last</u>
HRBW	HID remote ballast weatherproof (black)9
<u>Indoor remote balla</u>	<u>st</u>
HRB	HID remote ballast (white)9

NOTES:

- May be ordered with SCWA.
- 2 Must be ordered with SCWA
- 3 ED-28 reduced jacket lamp required
- 4 KFL2 only
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V;
- $For use with THK mounting only. \, Must include THK mount option on fixture.$
- $8 \quad \text{For use with yoke mounting only. } \\ \text{Must include yoke mount option on fixture.}$
- Consult factory for availability. 10 Field modification required unless ordered with fixture.

Dimensions are shown in inches (centimeters) unless otherwise noted.







www.lithonia.com, keyword: KFL

Wattage Distribution

ςp

HPW

HPW

ςp

HPW

ςp

HPW

High pressure sodium

150

150

400

400

175

175

400

400

Metal halide

Contour®



Specification Large Floodlights

Ordering Information

Intended Use

For industrial yards, parking lots, construction sites, streets and recreational areas.

Features

Housing - Heavy-duty construction. Contoured die-cast aluminum housing and front bezel. Bezel hinged and latched for fast, easy tool-less internal access to optical and electrical compartments. Lens is heavy-duty, thermal shock-resistant, clear tempered glass with no metal-toglass contact. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics - Computer-designed, precision dieformed, specular anodized aluminum reflector provides high efficiencies. Premium, one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants.

Electrical - High-power factor, constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL Listed. Electrical

Installed

components mounted to rear housing for maximum heat dissipation.

Socket - Porcelain, horizontally or vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Installation – Tool-less latches on front bezel can be opened while wearing gloves. Corrosion-resistant, painted steel yoke.

Listings

UL Listed (standard) (ambient temperature 25°C for 750W and above, 40°C for 400W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Express delivery products.

See page11 for details about LightQuick XD.

TFA 1000M TA TB LPI

Example: TFA 1000M TA TB LPI

Designation		Di	stribut	ion		
High pressure sodium	Horizonta	l ,		Vert	ical	
TFA 250S	RN TA	A RB	RC	RE	TA2	RM
TFA 400S	RN TA	A RB	RC	RE	TA2	RM
TFA 750S ¹	RN TA	A RB	-	-	TA2	RM
TFA 1000S	RN TA	A RB	-	-	TA2	RM
Metal halide						
TFA 250M ²	RN TA	A RB	RC	RE	TA2	RM
TFA 320M ³	RN TA	A RB	RC	RE	TA2	RM
TFA 350M ³	RN TA	A RB	RC	RE	TA2	RM
TFA 400M ²	RN TA	A RB	RC	RE	TA2	RM
TFA 750M ³	RN TA	۱ –	_	_	_	-
TFA 1000M ²	RN TA	A RB	-	RE	TA2	RM
		1				

Lamp/Fixture Data						
			Lamp	Beam spread	NEMA	
Wattage	Dist.	Ballast	type	H°xV°	dist.	
High pressure sodium (mog/clear)						
400	TA	CWA	ET18	140x134	7x7	
400	RN	CWA	ET18	127x30	6x3	
400	TA2	CWA	ET18	138x112	7x6	
400	RB	CWA	ET18	126x106	6x6	
1000	TA	CWA	E25	139x133	7x7	
1000	RN	CWA	E25	127x21	6x2	
1000	TA2	CWA	E25	144x119	7x6	
1000	RB	CWA	E25	128x114	6x6	
Metal hal	ide (m	og/clear)				
400	TA	CWA	BT37	143x133	7x7	
400	RN	CWA	BT37	129x35	6x3	
400	TA2	CWA	BT37	135x111	7x6	
400	RB	CWA	BT37	124x100	6x6	
1000	TA	CWA	BT56	146x135	7x7	
1000	RN	CWA	BT56	130x45	6x3	
1000	TA2	CWA	BT56	144x119	7x6	
1000	RB	CWA	BT56	126x109	6x6	

)in
,	0v

DF	Double fuse, 208V, 240V, 480V ¹
EC	Emergency circuit ^{7,8}
QRS	Quartz restrike system ^{7,8}
QRSTD	Quartz time delay ^{7,8}
CR	Enhanced corrosion resistance
CRT	Non-stick protective coating ⁹
PER	NEMA twist-lock receptacle ¹⁰
IS	Integral slipfitter (2-3/8" to 2-
	7/8" OD tenon)
CF	Charcoal filter
C62	2' 16-3 cord prewired ¹¹
C42	2' 14-3 cord prewired ¹¹
C22	2' 12-3 cord prewired ¹¹
TP	Tamperproof latches
SCWA	Super CWA pulse start ballast
	(n/a HPS)
CSA	CSA Certified ¹²
NOM	NOM Certified (consult factory)

Lamp included

SF Single fuse, 120V, 277V, 347V¹

L/LP Less lamp

mensions are shown in inches (centimeters) unless otherwise noted

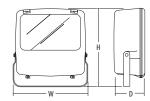
EPA: 2.6 ft2 (.24 m2) Width: 22(59.9) 9-3/4(24.7) Depth: Height: 18-3/4(47.6) 22-1/2(57.1) verall height: 65 lbs (29.5 kg

Voltage 120

> 2084 2404

277

347 4804 TR⁵



Options/	accessories

Shipped separately				
TFAWG Wireguard ¹³				
TFAVG	Vandal guard ¹³			
TFAUV	Upper visor ¹³			
TFAFV	Full visor ¹³			
TEARV	Rottom visor ¹³			

FTS Tenon slipfitter (2-3/8" to 2-7/8" OD tenon)¹¹

FCRA Crossarm adapter (horizontal)¹¹ FCRA45 Crossarm adapter (45° from horizontal)¹¹

FPMB Wood pole/pipe/wall-mounting bracket (includes FCRA)¹¹

FWPB Wall/wood pole/pipe bracket¹¹ FRWB Radius wall bracket14

FSAB Steel angle bracket¹¹ **FSPB** Steel square pole bracket (for use with existing poles)¹⁴ PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)¹⁵

PE3 NEMA twist-lock photocontrol (347V)¹⁵ PE4 NEMA twist-lock photocontrol (480V)¹⁵ PE7 NEMA twist-lock photocontrol (277V)¹⁵

SC Shorting cap TM Tenon mount 14

For additional options and accessories, see page 545. For optional architectural colors, see page 543.

- 1 Not available in multi-tap ballast.
- May be ordered with SCWA
- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; shins as 120V/347V
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- 10 Photocell not included
- 11 Yoke-mount only.
- 12 Not available with TBV.
- 13 Field modification required unless ordered with fixture.
- 14 Requires IS or FTS slipfitter.
- 15 PER must be ordered with fixture



For recreation areas, parking lots, building facades and car lots.

Features

Housing – Compact, soft-corner, die-cast aluminum housing and front cover. Front bezel is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant, clear, tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – TA2: vertical lamp with one-piece, hydroformed, anodized aluminum reflector. Two-position adjustable socket. RA2: horizontal lamp with anodized specular aluminum reflector. Both have sealed optic chamber to inhibit entrance of outside contaminants.

Electrical – Components mounted to cast-aluminum housing for maximum heat-dissipation. Ballast is high-reactance, high-power factor (70-150W HPS) or constant-wattage autotransformer (175 and above HPS, MH), copper wound and 100% factory tested. UL Listed.

Socket – Porcelain, vertically or horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Corrosion-resistant, heavy-duty painted steel yoke. External screws treated for corrosion resistance. Above-horizontal aiming standard.

Listings

UL Listed (standard) (ambient temperature 25°C for 320W and above and 200S, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



120 208⁴ 240⁴ 277 347 480⁵ TB⁶



Contour®



Example: TFL 400S RA2 TB LPI

Ordering Information

Designation		Distribution
High pressur	re sodium, ve	ertical lamp
TFL	705	TA2 (7x6)
TFL	1005	TA2
TFL	150S	TA2
TFL	2005	TA2
Metal halide	e, vertical lan	<u>mp</u>
TFL	150M ¹	TA2
TFL	175M	TA2
TFL	200M ²	TA2
TFL	250M ¹	TA2
High pressur	<u>re sodium, ho</u>	orizontal lamp
TFL	250S	RA2 (7x6)
TFL	400S	RA2
Metal halide	<u>, horizontal l</u>	lamp
TFL	200M ²	RA2
TFL		RA2
TFL		RA2
TFL	350M ²	RA2
TFL	400M ^{1,3}	RA2

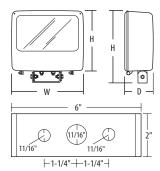
NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA
- 3 Requires T-15, ED or BT28 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- 5 Not available in Canada
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 Optional 5-tap ballast (120,208,240,277,480V), n/a in Canada.
- 8 Not available with multi-tap ballast.
- 9 Lamp not included.
- $10\quad Quartz\,lamp\,wattage\,not\,to\,exceed\,ballast\,wattage\,rating.$
- 11 Black finish only.
- 12 Photocell not included.
- 13 Yoke mount only.
- 14 Not available with TBV.
- $15 \quad Field \, modification \, required \, unless \, ordered \, wth \, fixture.$
- 16 Requires IS or FTS slipfitter.
- 17 PER must be ordered with fixture.

	Option
Lamp included	
Less lamp	
Single fuse, 120V, 277V, 347V ⁸	
Double fuse, 208V, 240V, 480V ⁸	
Emergency circuit ^{9,10}	
Quartz restrike system ^{9,10}	
Enhanced corrosion resistance	
Non-stick protective coating ¹¹	
NEMA twist-lock receptacle ¹²	
Integral slipfitter(2-3/8" OD max. tenon)	
Charcoal filter	
2' 16-3 cord prewired ¹³	
2' 14-3 cord prewired ¹³	
•	
CSA Certified ¹⁴	
NOM Certified (consult factory)	
Super CWA pulse start ballast (n/a HPS o	r 175M)
	Less lamp Single fuse, 120V, 277V, 347V ⁸ Double fuse, 208V, 240V, 480V ⁸ Emergency circuit ^{9,10} Quartz restrike system ^{9,10} Enhanced corrosion resistance Non-stick protective coating ¹¹ NEMA twist-lock receptacle ¹² Integral slipfitter(2-3/8" OD max. tenon) Charcoal filter 2' 16-3 cord prewired ¹³ 2' 14-3 cord prewired ¹³ 2' 12-3 cord prewired ¹³ CSA Certified ¹⁴ NOM Certified (consult factory)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 1.3ft²(.12m²)
Width: 15-3/4(40.0)
Depth: 6-1/8(15.6)
Height: 16-1/8(40.9)
Weight: 27lbs(11.8kq)



www.lithonia.com, keyword: TFL

tions/a	ccessories	
	Shipped se	<u>eparately</u>
	TFLWG	Wireguard ¹⁵
	TFLVG	· 9
	TFLUV	
	TFLFV	Full visor ¹⁵
	FTS	
	FRWB	Radius wall bracket ¹⁶
	FWPB	Wall/wood, pole/pipe bracket ¹³
	FSPB	Steel square pole bracket (for use with existing poles) 16
	FSAB	Steel angle bracket ¹³
	FCRA	Crossarm adapter (horizontal) ¹³
	FCRA45	Crossarm adapter (45° from horizontal) ¹³
	FPMB	Wood pole/pipe/wall-mounting bracket (includes FCRA) 13
	PE1	NEMA twist-lock photocontrol (120V, 208V, 240V) ¹⁷
75M)	PE3	NEMA twist-lock photocontrol (347V) ¹⁷
J,	PE4	NEMA twist-lock photocontrol (480V) ¹⁷
	PE7	NEMA twist-lock photocontrol (277V) ¹⁷

For optional architectural colors, see page	543.

SC Shorting cap

TM Tenon mount 16

Lamp/Fixture Data							
	Lamp Beam spread NEMA						
Wattage	Dist.	Ballast	type	H°xV°	dist.		
High press	High pressure sodium (mog/clear)						
100	TA2	HX-HPF	E17	148x123	7x6		
150	TA2	HX-HPF	E17	155x119	7x6		
250	RA2	CWA	BT28	143x111	7x6		
400	RA2	CWA	BT28	143x111	7x6		
Metal halide (mog/clear)							
175	TA2	CWA	BT28	147x122	7x6		
250	RA2	CWA	BT28	140x104	7x6		
400	RA2	CWA	BT28	145x100	7x6		



TFR

Contour®



Ordering Information

Designation High pressure sodium **TFR 150S TFR 250S TFR 400S** Metal halide TFR 150M² TFR 175M TFR 200M¹ TFR 250M TFR 320M¹ TFR 350M TFR 400M²

	Distribution
RB	(7x6) (n/a 150S) (6x6) (5x5)

Lamp/Fixture Data					
			Lamp	Beam spread	NEMA
Wattage	Dist.	Ballast	type	H°xV°	dist.
High pres	sure s	odium (m	og/clear)		
150	RB	XHP	E17	114x107	6x6
150	RC	XHP	E17	100x92	5x5
250	TA	CWA	ET18	132x118	7x6
250	RB	CWA	ET18	110x104	6x6
250	RC	CWA	ET18	99x97	5x5
400	TA	CWA	ET18	132x118	7x6
400	RB	CWA	ET18	110x104	6x6
400	RC	CWA	ET18	99x97	5x5
Metal halide (mog/clear)					
175	TA	CWA	BT28	132x111	7x6
175	RB	CWA	BT28	121x91	6x5
175	RC	CWA	BT28	100x90	5x5
250	TA	CWA	BT28	132x111	7x6
250	RB	CWA	BT28	121x91	6x5
250	RC	CWA	BT28	100x90	5x5
400	TA	CWA	BT37	138x119	7x6
400	RB	CWA	BT37	124x107	6x6
400	RC	CWA	BT37	96x100	5x5

🖊 LITHONIA LIGHTING

Intended Use

For recreation areas, parking lots, building facades and car lots.

Features

Housing – Compact, soft corner, die-cast aluminum housing and front cover. Front bezel is removable via position-oriented hinge-cam design and is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Die-formed, anodized aluminum reflectors provide rectangular, uniform distributions. Three available beam distributions for maximum flexibility in area lighting applications. **Does not require use of reduced-size lamp.**

Electrical – Components mounted to cast-aluminum housing, promoting maximum heat dissipation. Ballast is high-reactance HPF (70-150W HPS). 150M ballast is high reactance HPF constant-wattage autotransformer (175W and above HPS, MH),

Voltage

120 208³

240³

277

347 480⁴

TRS

TBV⁶

copper wound and 100% factory tested. UL Listed.

Socket – Porcelain (medium base: 150M; mogul base: all others) horizontally oriented with copper alloy, nickel plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Corrosion-resistant, heavy-duty painted steel mounting yoke. External screws treated for corrosion resistance. Above-horizontal aiming standard.

Listings

UL Listed (standard) (ambient temperature 25°C for 320W and above, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Express delivery products.

See page11 for details about LightQuick XD.

Description

TFR 400M TA TB LPI

Example: TFR 400M TA TB LPI

		Options/a	ccessories
Installed		Shipped so	<u>eparately</u>
SF	Single fuse, 120V, 277V, 347V ⁷	TFRWG	Wireguard ¹⁴
DF	Double fuse, 208V, 240V, 480V ⁷	TFRVG	Vandal guard ¹⁴
EC	Emergency circuit ^{8,9}	TFRUV	Upper visor ¹⁴
QRS	Quartz restrike system ^{8,9}	TFRFV	Full visor ¹⁴
CR	Enhanced corrosion resistance	FRWB	Radius wall bracket ¹⁵
CRT	Non-stick protective coating ¹⁰	FSAB	Steel angle bracket ¹²
PER	NEMA twist-lock photoelectric	FWPB	Wall/wood, pole/pipe bracket ¹²
	receptacle ¹¹	FSPB	Steel square pole bracket (for use with existing poles) ¹⁵
IS	Integral slipfitter (2-3/8" O D	FTS	Tenon slipfitter (2-3/8" to 2-7/8" OD tenon) ¹²
	tenon)	FCRA	Crossarm adapter (horizontal) ¹²
LPI	Lamp included	FCRA45	Crossarm adapter 45° from horizontal 12
L/LP	Less lamp	FPMB	Wood pole/pipe/wall mounting bracket (includes FCRA) ¹²
C22	2' 12-3 cord pre-wired ¹²	TM	Tenon mount ¹⁵
C42	2' 14-3 cord pre-wired ¹²	EY	Extended yoke
C62	2' 16-3 cord pre-wired ¹²	PE1	NEMA twist-lock photocontrol (120V, 208V, 240V) ¹⁶
CF	Charcoal filter	PE3	NEMA twist-lock photocontrol (347V) ¹⁶
CSA	CSA Certified ¹³	PE4	NEMA twist-lock photocontrol (480V) ¹⁶

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

NOM

SCWA

NOM Certified (consult factory)

HPS or 175M)

Super CWA pulse start ballast (n/a

EPA: 1.3ft²(.12m²)
Height: 12-3/4(32.4)
Width: 17-5/8(44.8)
Depth: 10-3/4(27.3)
Weight: 29(13.2kg)

H

W

6"

11/16"

2"

<u></u>
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NOTES:

- 1 Must be ordered with SCWA.
- 2 May be ordered with SCWA.
- 3 Consult factory for availability in Canada
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- 7 Not available in multi-tap ballast.
- 8 Lamp not included.
- $9\quad Quartz\,lamp\,wattage\,not\,to\,exceed\,ballast\,wattage\,rating.$

PE7 NEMA twist-lock photocontrol (277V)¹⁶

SC Shorting cap for PER option

For optional architectural colors, see page 543.

- 10 Black finish only.
- 11 Photocell not included.
- 12 Yoke mounting only.
- 13 Not available with TBV
- ${\bf 14} \quad Field \, modification \, required \, unless \, ordered \, with \, fixture.$
- 15 Requires IS or FTS slipfitter.
- 16 PER must be ordered with fixture.

For signs, flags, building facades and landscaping.

Features

Housing - Compact, heavy-duty construction. Die-cast aluminum housing and removable front bezel. Lens is thermal and shock-resistant, clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics - Hydroformed, anodized aluminum, faceted parabolic (RB, RG) or die-formed (TA) construction provides high efficiencies.

Electrical - Ballast is high-reactance, high-power factor for 50-150W metal halide or constant wattage autotransformer for 175W metal halide. Ballast is reactor normal-power factor for high pressure sodium (XHP available). Ballast is copper wound and 100% factory tested. UL Listed. Electrical components mounted to the cast-aluminum housing for maximum heat-dissipation.

Socket - Porcelain, medium-base, horizontally-

oriented (RB, RG) or vertically-oriented (TA) socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V. 4pin socket for compact fluorescent.

Installation - Die-cast aluminum 1/2" NSPM threaded mounting knuckle is standard. Corrosion-resistant painted steel yoke optional. Above-horizontal aiming standard. External screws treated for corrosion resistance.

Listings

UL Listed (standard) (ambient temperature 25°C for 150M and above, 40°C for 100M and below; 150S and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Contour®



Example: TFM 175M RB 120 LPI

Ordering Information

					•
Neci	qnation	Distribution	Voltage	Option	s/accessories
High pre- TFM TFM TFM TFM TFM Meta TFM TFM TFM TFM	35S1	TA (7x6) ² RB (6x6) RG (3x3)	120 208 ³ 240 ³ 277 480 ⁴ TB ⁵ TBV ⁶ MVOLT ⁷	Installed SF Single fuse, 120V, 277V, 347V ^{8,9} DF Double fuse, 208V, 240V, 480V ^{8,9} GMF Internal slow-blow fuse, CF only (n/a MVOLT) CR Enhanced corrosion resistance CRT Non-stick protective coating ¹⁰ PE Photoelectric cell, button type (n/a 480V) ⁸ XHP High reactance high power factor ballast ¹¹ LPI Lamp included L/LP Less lamp YK Yoke mounting C62 2' 16-3 cord pre-wired ¹² C42 2' 14-3 cord pre-wired ¹² C22 2' 12-3 cord pre-wired ¹²	CSA CSA Certified 13 NOM NOM Certified (consult factory) SCWA Super CWA pulse start ballast (only available in 150M with TA distribution) Shipped separately TFMWG Wireguard TFMVG Vandal guard TFMUV Upper visor 14 TFMFV Full visor 14 TFMTS Tenon slipfitter (2-3/8" OD tenon, for ground mounting only) TM Tenon mount 15 For optional architectural colors, see page 543.

 $Dimensions are shown in {\it inches} \, ({\it centimeters}) \, unless \, otherwise \, noted.$

.5ft2(.05m2)

10.6(26.9)

6.9(17.5)

10-1/2(26.7)

15 lbs (6.8 kg)

EPA:

Width:

Depth:

Heiaht:

Weight:

NOTES:

1 120V only, n/a XHP.

TFM

TFM

- 2 TA distribution not available with 175M, compact fluorescent lamps, TBV or fusing.
- 3 Consult factory for availability in Canada.

32TRT

42TRT

- 4 Not available in Canada
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- 8 Not available in multi-tap ballast.
- 9 Not available with TA reflector.
- 10 Black finish only.
- 11 Available for 120V only. Standard for 208V, 240V, 277V, 347V, TB and TBV.
- 12 Yoke mounting only.
- 13 Not available with TBV.
- 14 Field modification required unless ordered with fixture.
- 15 Requires TFMTS.

XHP	nigh reactance high power factor bai
LPI	Lamp included
L/LP	Less lamp
YK	Yoke mounting
C62	2' 16-3 cord pre-wired ¹²
C42	2' 14-3 cord pre-wired ¹²
C22	2' 12-3 cord pre-wired ¹²

/accessories			
CSA	CSA Certified ¹³		
NOM	NOM Certified (consult factory)		
SCWA	Super CWA pulse start ballast (only available in 150M with TA distribution)		
<u>Shipped</u>	<u>separately</u>		
TFMWG	Wireguard		
TFMVG	Vandal guard		
TFMUV	Upper visor ¹⁴		
TFMFV	Full visor ¹⁴		
TFMTS	Tenon slipfitter (2-3/8" OD tenon, for ground mounting only)		
TM	Tenon mount ¹⁵		
For optional architectural colors, see page 543.			

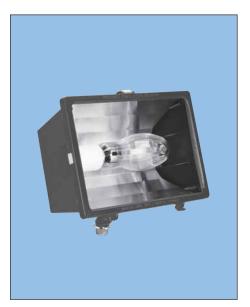
Lamp/Fixture Data							
			Lamp	Beam spread	NEMA		
Wattage	Dist.	. Ballast	type	H°xV°	dist.		
High pres	sure s	odium (med/clea	ır)				
70	RB	RNP or XHP	E17	94x104	5x6		
70	RG	RNP or XHP	E17	42x35	3x3		
70	TA	RNP or XHP	E17	131x103	7x6		
150	RB	RNP or XHP	E17	88x95	5x5		
150	RG	RNP or XHP	E17	57x65	4x4		
150	TA	RNP or XHP	E17	131x103	7x6		
Metal hal	ide (ı	med/clear)					
100	RB	XHP	E17	83x108	5x6		
100	RG	XHP	E17	58x60	4x4		
100	TA	XHP	E17	128x107	6x6		
175	RB	CWA	ED17	97x105	5x6		
175	RG	CWA	ED17	42x35	4x4		
Fluorescent							
26DTT	RB	electronic, HPF	T4	125x132	6x6		
42TRT	RB	electronic, HPF	T4	120x122	6x6		

www.lithonia.com, keyword: TFM



General Purpose Micro Floodlights

TFS



Intended Use

For signs, landscaping and commercial or residential building facades.

Features

Housing – Compact, rugged die-cast aluminum housing is ribbed for maximum heat dissipation. Hinged die-cast aluminum door frame inhibits the entrance of external contaminant. Finish is bronze polyester powder.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens. Medium-base, E17 lamp included in carton as standard.

Electrical – Reactor HPS or high-reactance (MH) normal power factor.

Installation – Adjustable mounting knuckle with 1/2" NPS threaded stem mounts to standard outlet boxes.

Listings

UL Listed to U.S. and Canadian safety standards. UL/C-UL Listed for wet locations.



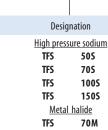
Express delivery products.
See page11 for details about LightQuick XD.

Example: TFS 50S 120 LPI

Description

TFS 150S 120 LPI

Ordering Information

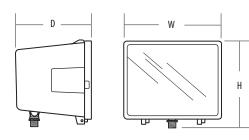


Voltage 120 Options

LPI Lamp included (std.)

 $Dimensions \, are \, shown \, in \, \textbf{inches} \, \textbf{(centimeters)} \, unless \, otherwise \, noted.$

Width: 8-7/8(22.5)
Depth: 6-1/8(15.6)
Height: 6.5(16.5 m)
ax.weight: 6.48 lbs (2.94 kg)





For signs, landscaping, and commercial or residential building facades.

Features

Housing – Compact, rugged, die-cast aluminum housing is ribbed for maximum heat dissipation. TQE lens attaches via tool-less clips. TQ, TQ 1500 and TCF door frame is die-cast aluminum with tool-less latch closure. Standard finish is bronze polyester powder.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. TQ: 500W models include double-ended quartz 500W lamp. 1500W models do not include doubleended quartz 1500W lamp. TCF: 13W twin-tube compact fluorescent lamps.

Installation - Adjustable mounting knuckle with 1/2" NPS threaded stem. Mounts to standard outlet boxes.

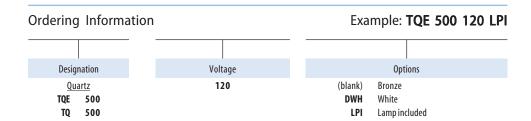
Listings

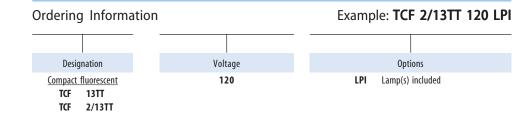
UL Listed to U.S. and Canadian safety standards. UL/C-UL Listed for wet locations.





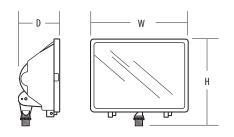
Ordering Information Example: TQ 1500 L/LP Voltage Designation **Options** <u>Quartz</u> Determined by lamp (277V max.) L/LP Lamp NOT included (must be supplied by others) TQ 1500





 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless \ otherwise \ noted.$

<u>TQ1500</u> TQ/TQE500 Width: 13 (33.0) 8-7/8(22.5) 8-7/8 (22.5) 6(15.2) 3-1/2(8.9) 3-1/2(8.9) Depth: 6-1/2(16.5) 8-1/4(21.0) 6-1/2(16.5) Height: Max.weight: 6 lbs (2.72 kg) 2.07 lbs (.93 kg) 2.07 lbs (.93 kg)





TSL



Intended Use

Interstate highway signage, outdoor advertising, traffic flow signs and building facades.

Features

Housing – Die-cast low copper content aluminum housing offers superior durability and corrosion resistance. Hinged door easily removable for quick maintenance. Single fastener makes relamping easy (optional tool-less entry available).

Optics – Anodized aluminum reflector provides uniform lighting distribution with choice of flat tempered glass or sag tempered glass lens.

Electrical – Standard ballast varies by wattage and source and can be specified. 250W and above standard constant wattage autotransformer. Reactor (normal and high power factor), high reactance lag (normal and high power factor),

isolated coil, magnetic regulator, and pulse-start ballasts are available (consult factory).

Installation – Standard product mounts to 2-3/8" tenon. Other mounting options are available, (consult factory).

Listings

UL Listed (standard). UL Listed for wet locations. Complies with ANSI: C136.2, C136.10, C136.15.

Ordering Information

Series	Wattage
TSL	High pressure sodiur
	1005
	1505
	2005
	250\$
	3105
	250/4005
	400/250\$
	4005
	Metal halide
	175M
	250M
	250/400M
	400/250M
	400M
	Mercury vapor
	100MV
	175MV
	250MV
	400MV

Distribution Lens

RM (5Hx6V)

RB (6Hx6V)

FL Flat lens,
tempered
glass (clear)

SLG Sag lens,
tempered
glass (clear)

120 208 220 240 277 480 TB^{1,2} TB1^{1,2} TB2^{1,2} 120/240 240/120 240/480 480/240

Voltage

Ballast options³

RNP Reactor normal power factor⁴
RHP Reactor high power factor⁴
50HZ 50 hertz
MRB Mag reg ballast
CWI CWI ballast
CWA Constant wattage autotransform
XHP High reactance (lag) high power factor⁴
XNP High reactance (lag) normal pow factor⁴
SCWA Super CWA pulse start⁵

Options/accessories

Example: TSL 200S RM FL 120 PER LPI

		•
ctor ⁴	Installed	
r ⁴	LPI	Lamp included
	LPIC	Lamp included (deluxe/coated)
	L/LP	Less lamp
	PER	NEMA twist-lock receptacle only
ansformer		(photocontrol not included)
power	PEU	NEMA twist-lock PE
	CF	Charcoal filter
nal power	OPS	Open plug-in starter ⁴
	ENP	Encapsulated plug-in starter ⁴
	ENX	External encapsulated plug-in starter ⁴
	T2P	Terminal block-two position wired L1, L2
	T3P	Terminal block-three position wired L1, N, L2
	CSA	CSA Certified
	NML	NEMA label
	TLS	Tool-less access
	HSS	Stainless steel external hardware
	LSA	Single lighting surge arrestor ⁶
	SF	Single fuse, 120V, 277V, 347V (n/a TB) ^{6,7}
	DF	Double fuse, 208V, 240V, 480V (n/a TB) ^{6,7}
	GYK	Yoke galvanized
	YK	Yoke painted
	Shipped	<u>separately</u> 8
	SC	Shorting cap for PER option
	Architect	<u>ural colors</u>
	DWH	White finish

H W

 $Dimensions are shown in {\it inches} \, ({\it centimeters}) \, unless \, otherwise \, noted.$

EPA: 1.75ft²(.16m²) Width: 19.5(49.5) Height: 21-1/4(54) Max. weight: 37 lbs (16.8 kg)

NOTES:

 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.

DDB Dark bronze finish

DBL Black finish

- 2 Not available with RNP or RHP
- ${\tt 3} \quad {\tt Notall\,ballast\,options\,are\,available\,with\,all\,wattage/sources, consult factory.}$
- 4 HPS only
- 5 Pulse start MH only.
- 6 120V, 277V only, n/a TB.
- 7 Not available with UL or CSA options.
- 8 May be ordered as an accessory.



For airport aprons or parking areas.

Features

Housing - Rugged, heavy-gauge, aluminum housing. Continuous welded seams for weathertight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant and shock-resistant tempered flat lens. Dark bronze (DDB) corrosion-resistant polyester powder finish; other architectural colors available. Architectural Class 1 anodize finish also available.

Optics - Anodized aluminum reflector with internal glare control louver, painted matte black to provide an asymmetrical beam pattern with sharp vertical cutoff.

Electrical - Constant wattage autotransformer ballast, copper wound and 100% factory tested.

Socket - Horizontal, mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V, 4KV pulse rated.

Installation - Painted steel yoke, complete with vertical angle selector, retaining stop and 3-foot, 14/3 cable is standard.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

170S



Example: 170S 400S HPN 120 SF LPI

Ordering Information

Design	ation	Distribution	Voltage
High pressu 170S 170S 170S 170S	re sodium 250S 400S 750S 1000S	HPN	120 208 ⁴ 240 ⁴ 277 347
Metal h	<u>nalide</u>		480 ⁴
170S	320M ¹		TB ⁵
170S	350M ¹		
170S	400M ²		
1705	1000M ^{2,3}		

Ontional mounting

	optional mounting			
Shipped se	<u>parately</u>			
TS	Tenon slipfitter (2-3/8" OD max.) ⁶			
FCRA	Crossarm adapter ⁶			
FCRA45	Crossarm adapter (45° from horizontal) ⁶			
EWB	Extended wall bracket ⁶			
MPB29	Mounting pole bracket for 2 fixtures at 90°7			
MPB39	Mounting pole bracket for 3 fixtures at 90°7			
MPB49	Mounting pole bracket for 4 fixtures at 90°7			

0	pt	ior	is/	ac	ces	SOI	ries

Inct	tal.	امر

LPI Lamp included

L/LP Less lamp

Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

PER NEMA twist-lock receptacle only¹¹

CSA CSA Certified

QRS Quartz restrike^{8,9}

SCWA Super CWA pulse start ballast (n/a HPS)

Shipped separately

UV Upper visor

SC Shorting cap for PER option

NEMA twist-lock photocontrol (120V, 208V, 240V)¹⁰ PE1

PE3 NEMA twist-lock photocontrol (347V)¹⁰

PE4 NEMA twist-lock photocontrol (480V)¹⁰

PE7 NEMA twist-lock photocontrol (277V)¹⁰

Indoor remote ballast

HRB HID remote ballast (white)¹²

Outdoor remote ballast

HRBW HID remote ballast weatherproof (black)¹² For optional architectural colors, see page 543.

NOTES:

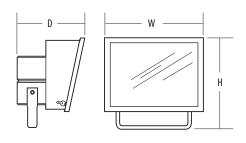
- 1 Must be ordered with SCWA.
- May be ordered with SCWA.
- 3 Requires a BT-37 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 For use with YK mounting (standard) only.
- MPB bracket ships separately with junction box and hinge mechanisms. Bracket weight: 12 lbs.
- 8 Lamp not included.
- 9 Quartz lamp wattage not to exceed ballast wattage rating.
- 10 PER must be ordered with fixture.
- 12 Consult factory for availability.

Lamp/fixture data					
		Lump	Lamp	Beam spread	NEMA
Wattage	Dist.	Ballast	type	H°xV°	dist.
High pres	sure so	<u>dium</u>			
250	HPN	CWA	ET18	128x55	6x4
400	HPN	CWA	ET18	129x52	6x4
750	HPN	CWA	BT37	133x57	7x4
1000	HPN	CWA	E25	132x56	7x4
Metal halide					
400	HPN	CWA	BT37	139x68	7x4
1000	HPN	CWA	BT37	138x63	7x4

 $Dimensions are shown in {\bf inches} \ ({\bf centimeters}) \ unless otherwise \ noted.$

FPA: 2.7ft² (.25m²) Width: 21(53.3) 20-1/2(52.1) Height: 19-1/4(48.9) Depth: Max.weight: 83 lbs (37.6 kg)

www.lithonia.com, keyword: 170S





95



Intended Use

For large area facade or monument floodlighting.

Features

Housing – Rugged, heavy-gauge, aluminum housing, horizontal (95) or vertical (95V) lamp orientation. Continuous welded seams, fully gasketed for weathertight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant and shock-resistant tempered flat lens. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder; other architectural colors available. Architectural Class 1 anodize finish also available.

Optics – Segmented anodized aluminum, precisely formed to provide varying rectangular beam patterns (non-rotatable).

Electrical – Constant-wattage autotransformer ballasts, copper wound and 100% factory tested.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. Uses BT 56 lamp.

Installation – Painted steel yoke complete with vertical angle selector stop, re-aiming, and 3-foot, 14/3 cable is standard.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Ordering Information

Design	ation			
	Horizontal housing High pressure sodium			
95	1000S			
<u>Metal</u>	<u>halide</u>			
95	1000M			
Vertical housin	ng			
High pressu	<u>ıre sodium</u>			
95V	1000S			
Metal	<u>halide</u>			
95V	1000M			

Distrib	ution	Voltage
Horizontal lamp RMH RNH ¹ RWH BPH ² SPH ²	Vertical lamp RMV RNV ³ RWV BPV ² SPV ²	120 208 ⁴ 240 ⁴ 277 347 480 ⁴ TB ⁵

	Optional mounting
Shipped s	<u>eparately</u>
TS	Tenon slipfitter (2-3/8"0D max.) ⁶
FCRA	Crossarm adapter ⁶
FCRA45	Crossarm adapter (45° from horizontal) ⁶
EWB	Extended wall bracket ⁶
AFTM	Tenon mount (base mount) ⁷

Example: 95 1000S RMH 120 SF LPI

Options/accessories

nsta	lled

SF Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

PER NEMA twist-lock receptacle only⁹

CSA CSA Certified

LPI Lampincluded

L/LP Less lamp

Shipped separately

UV Upper visor

BV Bottom visor **FV** Full visor (4-sided)

GV Glare visor (3-sided)

CV Concentric visor

VG Vandal guard

SC Shorting cap for PER option

PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)⁸

PE3 NEMA twist-lock photocontrol (347V)⁸

PE4 NEMA twist-lock photocontrol (480V)⁸

PE7 NEMA twist-lock photocontrol (277V)⁸

Indoor remote ballast

HRB HID remote ballast (white)¹⁰

Outdoor remote ballast

HRBW HID remote ballast weatherproof (black)¹⁰ Foroptional architectural colors, see page 543.

95V W D D D

Distribution Data				
	95	5 V		95
<u>Distribution</u>	<u>1000M</u>	<u>1000S</u>	<u>1000M</u>	<u>1000S</u>
RMH	4x1	5x2	3x5	6x6
RNH	3x1	-	3x3	5x6
RWH	5x1	5x1	3x5	6x6
BPH	_	-	4x5	6x6
SPH	2x1	4x1	_	-
RMV	5x3	6x6	1x4	2x5
RNV	3x3	6x5	1x3	-
RWV	5x4	6x6	1x4	1x5
BPV	5x4	6x6	_	-
SPV	_	-	1x2	1x4

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

		,
	<u>95</u>	<u>95V</u>
EPA:	$4.7 \text{ft}^2 (.44 \text{m}^2)$	$4.3 \text{ft}^2 (.40 \text{m}^2)$
Width:	24-1/2(62.5)	21(53.5)
Height:	30 (77)	30(77)
Depth:	12-1/2(31.8)	18-1/8(46)
Max.weight:	90 lbs (40.7 kg)	90 lbs (40.7 kg)

NOTES:

- 1 Not available with 95 1000S.
- $2\quad BPH and SPV for use with 95V only. SPH and BPV for use with 95 only.$
- 3 Not available with 95V 1000S.
- 4 Consult factory for availability in Canada.
- 5 Multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 For use with YK mounting (standard) only.
- 7 For use with TS option only.
- 8 PER must be ordered with fixture
- 9 Photocell not included.
- 10 Consult factory for availability.



www.lithonia.com, keyword: 95

For large area facade or monument floodlighting.

Features

Housing - Rugged, heavy-gauge, aluminum housing, horizontal (55) or vertical lamp (55V) orientation. Continuous welded seams, fully gasketed for weathertight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant, tempered flat lens. Standard finish is dark bronze (DDB) corrosionresistant polyester powder. Architectural class 1 anodize finish also available.

Optics - Anodized aluminum reflector. Seven distributions available to provide varying rectangular beam patterns (non-rotatable).

Electrical - Constant-wattage autotransformer

ballasts, copper wound and 100% factory tested.

Socket - Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Installation - Painted, steel yoke complete with angle selector, aiming stop, and 3-foot, 14/3 cable is standard.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.



Example: 55 750S RPN 120 SF LPI

Ordering Information

Designation	Distribution	Voltage
Horizontal housing & lamp High pressure sodium 55 750S 55 1000S Metal halide 55 320M¹ 55 350M¹ 55 400M² 55 1000M²	RME ³ RNE ³ RPN ³ RWE ³ RNA ⁴ RMA ⁴	120 208 ⁵ 240 ⁵ 277 347 480 ⁵ TB ⁶

Vol	tage
20	20 08 ⁵
_	40⁵ 77
48	47 80 ⁵ 'B ⁶
-	_

Optional mounting Shipped separately TS Tenon slipfitter (2-3/8"0D max.)7 FCRA Crossarm adapter⁷ FCRA45 Crossarm adapter (45° from horizontal)7 **EWB** Extended wall bracket⁷ AFTM Tenon mount (base mount)8

Installed SF Single fuse, 120V, 277V, 347V (n/a TB) NEMA twist-lock receptacle only 12 CSA

LPI Lamp included L/LP Less lamn Quartz restrike^{9,10} ORS Super CWA pulse start ballast (n/a SCWA HPS)

Shipped separately

UV Upper visor

BV Bottom visor

Options/accessories

Full visor (4-sided) GV Glare visor (3-sided) Vandal guard

Double fuse, 208V, 240V, 480V (n/a

CSA Certified

Indoor remote ballast

 $(347V)^{11}$

(480V)¹¹

 $(277V)^{11}$

HRB HID remote ballast (white)¹³

Outdoor remote ballast

HRBW HID remote ballast weatherproof (black)¹³

Shorting cap for PER option

(120V, 208V, 240V)¹¹

NEMA twist-lock photocontrol

NEMA twist-lock photocontrol

NEMA twist-lock photocontrol

NEMA twist-lock photocontrol

For optional architectural colors, see page 543.

NOTES:

- 1 Must be ordered with SCWA
- 2 May be ordered with SCWA.

Vertical housing & lamp

55V

55V

55V

55V

55V

High pressure sodium

Metal halide

750S

10005

320M¹

350M¹

400M²

1000M²

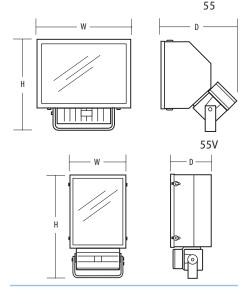
- 3 RME, RNE, RPN, RWE require reduced jacket BT-37 lamp with 1000M.
- $4\quad RMA, RNA, RWA are for use with 1000 Monly and require standard BT-56 lamp.$
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 For use with YK mounting (standard) only.
- 8 For use with TS option only, (TS included).
- 9 Lamp not included.
- 10 Quartz lamp wattage not to exceed ballast wattage rating.
- 11 PER must be ordered with fixture.
- 12 Photocell not included
- 3 Consult factory for availability.

Distribution Data						
		55			55V	
<u>Distribution</u>	<u>1000M</u>	<u>400M</u>	<u>1000S</u>	<u>1000M</u>	<u>400M</u>	<u>1000S</u>
RME	6x5	6x5	6x5	4x6	5x6	5x6
RNE	6x4	6x4	6x4	4x6	4x6	4x6
RPN	6x2	6x2	5x1	1x6	1x6	1x5
RWE	6x5	6x5	6x5	5x6	5x6	5x6
RNA	5x1	-	-	1x5	-	-
RMA	6x6	_	-	6x6	-	_
RWA	6x5	-	-	6x7	-	_

Dimensions are shown in inches (centimeters) unless otherwise noted.

	<u>55</u>	<u>55V</u>
EPA:	$3.5 \text{ft}^2 (.33 \text{m}^2)$	3.8 ft ² (.35 m ²)
Width;	23-1/4(59.1)	17-3/8(44.1)
Height:	23 (58.4)	33(83.8)
Depth:	14-1/2(36.8)	12-5/8(32.1)
Max.weight:	91 lbs (41.2 kg)	98 lbs (44.3 kg)

www.lithonia.com, keyword: 55





HFA/HFL



Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments or wherever excessive vibration and dirt may exist.

Features

Housing – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with round corners and front bezel. Front bezel is removable via position-oriented hingecam design. Lens is thermal and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion-resistant. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Computer-designed, precision formed reflectors for high performance and efficency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants. HFL 400W metal halide requires an ED28 reduced jacketed lamp.

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components are mounted to cast aluminum housing, promoting maximum heat dissipation. Accesible through front bezel.

Socket – Porcelain, horizontally oriented mogulbase socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – HFA: front bezel is latched for easy tool-less internal access to optical and electrical compartments. Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings

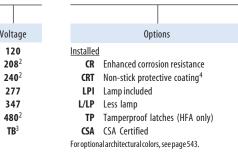
UL Listed (standard). CSA Certified (see Options). UL Listed Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL Listed for marine outside locations. IP65 rated.

Example: HFA 400M TA 120 LPI

Ordering Information

Desig	nation
High press	ure sodium
HFA	250S
HFA	400S
HFL	400S
Metal	halide
HFA	250M
HFA	400M
HFL	400M ¹

Distribution	Volta
<u>HFA</u>	120
TA (7x7)	208
RN (6x3)	240
<u>HFL</u>	27
RA2 (7x6)	347
	480
	TB ³



- NOTES:

 1 Must use reduced jacket ED-28 lamp.
- 2 Consult factory for availability in Canada
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Black finish only.

	H D D
HFL	
	W

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

HFA	HFL
EPA: 2.6ft²(.24m²)	1.3ft²(.12m²)
Width: 23-3/4(60.3)	15-3/4(40.0)
Depth: 9-3/4(24.8)	6-1/8(15.5)
Overall height: 24(61) (includes yoke)	16-1/8 (40.9) (includes yoke)

Weight: 65 lbs (29.5 kg) 27 lbs (12.3 kg)

		Temperat	ture Codes	
Ì			T-Code	Max. internal
	Description	Wattage	or temp.	temp.
	HFA	250M	T1	336℃
Ì	HFA	400M	T1	343°C
Ì	HFA	250S	T1	301℃
Ì	HFA	400S	T1	352℃
ĺ	HFL	400M	T1	433℃
l	HFL	400\$	T1	426°C



www.lithonia.com keywords: HFA and HFL

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments, or where excessive vibration and dirt may exist.

Features

Housing – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with rounded corners and front bezel. Front bezel is removable via position-oriented hingecam design. Lens is thermal and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion resistant. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. HFR: Does not require use of reduced-size lamp.

Electrical – Ballast is high power factor, high reactance (HFR 150S; HFM 100S and 150S) or constant wattage autotransformer (HFR 250W-400W; HFM 175M) and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Socket – Porcelain, horizontally oriented mogulbase (HFR) or medium-base (HFM) socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed, Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL Listed for marine outside locations. IP65 rated.

HFR/HFM



Example: HFR 400M TA 120 LPI

Ordering Information

Designation	Distribution	Voltage	Options
High pressure sodium	HFR	120	Installed
HFR 150S	TA (7x6)	208 ¹	CR Enhanced corrosion resistance
HFR 250S	RB (6x6)	240 ¹	CRT Non-stick protective coating ⁴
HFR 400S	RC (5x5)	277	LPI Lamp included
HFM 100S	<u>HFM</u>	347	L/LP Less lamp
HFM 150S	RB (6x6)	480 ²	TP Tamperproof latches (HFA only)
Metal halide	RG (3x3)	TB ³	CSA CSA Certified
HFR 250M			For optional architectural colors, see page 543.
HFR 400M			
HFM 175M			

NOTES:

- 1 Consult factory for availability in Canada.
- 2 Not available in Canada
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Black finish only.

	Temperat	ure Codes	
		T-Code	Max. Internal
Description	Wattage	or temp.	temp.
HFR	250M	T1	347°C
HFR	400M	T1	359℃
HFR	150S	T2B	238°C
HFR	250S	T1	332°C
HFR	400S	T1	376°C
HFM	175M	T1	402°C
HFM	100S	280	280°C
HFM	150S	350	341°C

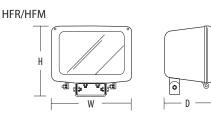
 $Dimensions are shown in {\it inches} \, ({\it centimeters}) \, unless \, otherwise \, noted.$

29 lbs (13.2 kg)

HFM
EPA: 1.3 ft² (.12 m²) .5 ft² (.05 m²)
Width: 17-5/8 (44.8) 10-1/2 (26.9)
Depth: 10-3/4 (32.4) 6-3/4 (17.5)
Height: 13 (33.0) (includes voke) 10-1/2 (26.9) (includes voke)

15 lbs (6.8 kg)

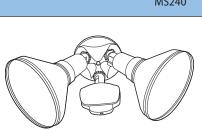
www.lithonia.com keywords: HFR and HFM





MSE180 FK MSQ240 FK





MSE180FK Width: Depth: 5-1/2(13.97) Height: 7-1/2(19.5) 1.6 lbs (.725 kg)

Intended Use

Motion activated security lighting for residential or commercial building perimeters.

Features

Construction – Sensor head is UV stabilized polycarbonate with color matched lens. Lamp holders and sensor can be aimed in the field without the use of tools. Dark bronze (DDB) finish is standard. Optional white (DWH) finish is available.

MSE180 FK - Flood kit lamp holders and mounting plate are die cast aluminum. Metal lamp shields are included in the carton as standard for field installation.

MSQ240 FK - Flood kit has decorative lamp enclosures with die cast/glass construction and is sealed to prevent the intrusion of contaminants. Lamp enclosure cover can be removed without the use of tools. Mounting plate is die cast aluminum.

Sensor Operation – Sensor has one LED indicator to confirm proper operation and deter intruders. Sensor features include dusk-to-dawn operation, power on test mode, manual override, sensitivity and time adjustment. All sensor adjustments can be done without tools.

MSE180FK - Coverage zone is 180° with a detection range up to 60 feet.

MSQ240 FK - Coverage zone is 240° with a detection range up to 70 feet. Adjustable photo control sets the amount of darkness it takes for the motion sensor to activate.

Electrical – Surge protection is built into sensor operation and withstands up to 4000 volts.

MSE180 FK - Up to 300-watt, PAR38 maximum incandescent (150-watt max per socket). 110-120 volt operation.

MSQ240 FK - Up to 200-watt, quartz lamps maximum (100-watt max per socket). 110-120 volt operation.

Socket – MSE180 FK – Lamp holders are medium base with a porcelain outer shell. MSQ240 FK -Lamp holders contain 8mm bi-pin sockets.

Installation - Flood kits are for wall or eave mounting. Round mounting plate fits standard 4" round or square outlet boxes. Plate has one additional 1/2" NPT threaded knockout. Center mounted backplate with adjustable crossbar for easy installation. Gasket seals backplate to mounting surface. All mounting hardware included. Sensor will install to any 1/2" standard threaded cover plate.

Listing

UL Listed to US and Canadian safety standards. UL Listed for wet locations.

Example: MSE180 FK I DWH L/LP

Ordering Information

Designation MSE180 FK

Wattage I (300W/PAR38 max.)

Options (blank) Dark bronze (std.)

Lamps L/LP Lamp not

Example: MS180 DWH

Dimensions are shown in inches (centimeters) unless otherwise noted

Ordering Information

Designation MS180

Options (blank) Dark bronze (std.) **DWH** White

Example: MSQ240 FK 2/100Q DWH LPI

Designation MSQ240 FK

Ordering Information

Wattage 2/100Q (200W max.)

Options (blank) Dark bronze (std.) **DWH** White



Dimensions are shown in inches (centimeters) unless otherwise noted.

MSQ240FK Width: 10(25.4) Depth: 5-1/2(13.97) Height: 7(17.7) 1.6 lbs (.725kg) Weight:

Ordering Information

Designation **Options** MS240 (blank) Dark bronze (std.) **DWH** White

Example: MS240 DWH



www.lithonia.com keywords: MSE and MSQ

Motion activated security lighting for residential or commercial building perimeters.

Features

Construction – Flood kit has heavy-duty die-cast aluminum lamp shields and mounting plate. Sensor head is die cast aluminum with color matched lens and protective metal grill. Lamp holders and sensor can be aimed in the field without the use of tools. Dark bronze (DDB) finish is standard. Optional white (DWH) finish is available.

Sensor Operation – Coverage zone is 270° with a detection range up to 100 feet. Sensor has dual LED indicators to confirm proper operation and deter intruders. Sensor features include dusk-to-dawn operation, power on test mode, manual override, sensitivity/time adjustment, internal lens blinder system, solar tracking, dimmer, and adjustable photo control which sets the amount of darkness it takes for the motion sensor to activate. All sensor adjustments can be done without tools and are protected by a covered, recessed control compartment under the sensor.

Electrical – Up to 300-watt, PAR38 maximum incandescent (150-watt max per socket). 110-120 volt operation. Surge protection is built into sensor operation and withstands up to 6000 volts. Sensor has capability of switching alternate sources of up to 1000 watts (including 2 x PAR lamps).

Socket – Lamp holders contain porcelain, medium base sockets.

Installation — Flood kits are for wall or eave mounting. Round mounting plate fits standard 4" round or square outlet boxes. Plate has one additional 1/2" NPT threaded knockout. Center mounted backplate with adjustable crossbar for easy installation. Gasket seals backplate to mounting surface. All mounting hardware included. Sensor will install to any 1/2" standard threaded cover plate.

Listing

UL Listed for wet locations. Listed and labeled to comply with U.S. and Canadian standards.

MSP270 FK



Ordering Information





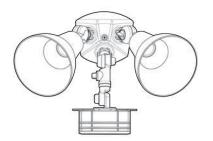
Options
(blank) Dark bronze (std.) **DWH** White

L/LP Lamp not included

Ordering Information



Example: MS270 DWH



Dimensions are shown in **inches (centimeters)** unless otherwise noted

 MSP270FK

 Width:
 15(38.1)

 Depth:
 9-1/2(24)

 Height:
 9(22.9)

 Weight:
 3.1lbs (1.4kg)



TSP

Tru-Sport®



Intended Use

For stadiums, fields, arenas, tracks or courts.

Features

Housing – Two-piece, die-cast aluminum ballast housing mounted to steel trunnion. Removable ballast is hinged with captive fastener. Steel trunnion features both vertical and horizontal aiming scale with vertical repositioning stop. Standard finish is white (DWH) corrosion-resistant polyester powder.

Optics – Heavy-gauge anodized reflector with five distributions available. Transverse mounting of lamp. Lamp support included. Optical chamber is sealed to inhibit entrance of contaminants. Heavy-duty hinged lens is thermal-resistant, shock-resistant and impact-resistant tempered glass. Lens frame is secured by spring clips for servicing of lamp. "Flux manager" (NFX, WFX, MFX) available for optimal glare and spill light control. Choice of general purpose or heavy-duty (shrouded) reflectors.

Electrical – All electrical components are thermally isolated from optical assembly, promoting longer life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested.

Socket – Die-cast socket housing. Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and spring-loaded center contact. UL Listed 1500W-600V, 4KV pulse rated.

Installation – Fixture is mounted by securing trunnion directly to crossarm. Mounting hardware is provided. Below horizontal aiming only. All external hardware is treated for corrosion resistance.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. US Patent no. 6,190,023. Canadian patent no. 2,212,014. Other patent pending.

Example: TSP 1500M GP24N 120 SF

Ordering Information

Desig	nation
<u>Metal</u> TSP TSP TSP	halide 400M ¹ 1000M ¹ 1500M

NOTES:

1 May be ordered with SCWA.

ships as 120V/347V.

Not available 1500M, 120V

HD option must be ordered.
PER must be ordered with fixture.

Consult factory for availability.

2 Heavy-duty anodized aluminum shroud.

Consult factory for availability in Canada.

Must use mating receptacle, provided by others.

Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V;

General purpose
GP24N
GP24NFX
GP24M
GP24MFX
GP24W
GP24WFX
Heavy duty ²
HD24N
HD24NFX
HD24M
HD24MFX
HD24W HD24WFX

Distribution

ltage	Volt
20 08 ³	
40 ³	
277 347	
80 ³	
ΓR ⁴	TE

Options/accessories

Installed

SF Single fuse, 120V, 277V, 347V (n/a TB)

DF Double fuse, 208V, 240V, 480V (n/a TB)

QRS Quartz restrike system (lamp not included)

C62 2 ft. of 16/3 cable pre-wired

C42 2 ft. of 14/3 cable pre-wired

C22 2 ft. of 12/3 cable pre-wired

CV3P 3 ft. of 16/3 cord pre-wired with 3-prong plug (use with prewired cages and crossarms)^{5,6}

CR Enhanced corrosion resistance

CF Charcoal filter (heavy-duty only)⁷

SLR Stainless steel lens ring

WC Wood crossarm mounting bolt (5/8"-11 UNC x 7")

SCWA Super CWA pulse start ballast (400M and 1000M only)

CSA CSA Certified

PER NEMA twist lock receptacle only, not intregral but remote (no photocell, 400M and 1000M only)

Shipped separately

FTS Tenon slipfitter

PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)⁸

PE3 NEMA twist-lock photocontrol (347V)⁸

PE4 NEMA twist-lock photocontrol (480V)⁸

PE7 NEMA twist-lock photocontrol (277V)⁸

SC Shorting cap

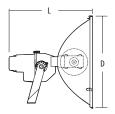
Indoor remote ballast

HRB HID remote ballast (white)⁹

Outdoor remote ballast

HRBW HID remote ballast weatherproof (black)9

For optional architectural colors, see page 543.



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 3.3 ft² (.91 m²) Width: 24-1/2 (62.2) Height: 20(50.8) Max.weight: 55 lbs (24.9 kg)



Intended Use

Ideal for recreational or competitive sports fields, parking areas and industrial yards.

Features

Housing – Heavy-gauge, hydroformed aluminum ballast housing mounted to integral diecast monoframe with horizontal degree aiming scale and repositioning locator. Die-cast aluminum socket housing provides vertical aiming adjustment with degree aiming scale and repositioning stop.

Optics – Heavy-gauge anodized aluminum reflectors provide a range of NEMA beam spreads. Optical chamber sealed to inhibit entrance of contaminants. Hinged lens is heavy-duty, thermal, shock- and impact-resistant tempered glass.

Electrical – All electrical components contained in ballast housing, which is isolated thermally from socket housing and optical assembly, promoting longer ballast life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested.

Socket – Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Installation – Mounted by securing integral crossarm mounting bracket directly to cross arm 5/8" x 11UNC mounting bolt provided. Exposed bolt length: 1-1/2".

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.





Example: TV 1500M GP4 TB

Ordering Information

Designation	Distribution ¹	Voltage
High pressure sodium TV 400S	GP2 ² GP3 ²	120 208 ⁴
TV 1000S	GP4 ³	240^{4}
Metal halide	GP5 ³	277
TV 400M	GP6	347
TV 1000M		480 ⁴
TV 1500M		TB ⁵

ORDERING/PACKAGING OPTIONS

To accommodate the product's physical configuration as well as a range of customer handling and processing needs, alternative ordering/packaging methods are available.

Example:

(Qty 21) **TV 1500M GP4 TB** sportslighters can be ordered/packaged as:

1) Standard Packaging (Optimized form)

To order, use single catalog number shown in example above. Fixtures ship as multiple components using *optimized* packaging. Example ships as:

(Qty 21) TV 1500M N4 TB HSG (21 cartons of 1 housing)

(Qty 20) GP20A J4 (5 cartons of 4 reflectors)

(Qty 1) GP20A U (1 carton of 1 reflector)

2) *Component* Packaging Housings ship in unit cartons.

Example:

(Qty 21) ${f TV}$ 1500M ${f N4}$ ${f TB}$ HSG (21 cartons of 1 housing)

Reflectors ship in multiples of:

(Qty 20) **GP20A J4** (5 cartons of 4 reflectors)

(Qty 1) **GP20A U** (1 carton of 1 reflector)

<u>Installed</u>

<u>iiea</u>

SF Single fuse, 120V, 277V (n/a TB or 347V)

DF Double fuse, 208V, 240V, 480V (n/a TB)

 $\begin{tabular}{ll} \textbf{PER} & \textbf{NEMA twist-lock receptacle only, no photocell} \\ \end{tabular}$

QRS Quartz restrike system (lamp not included)

LS Lamp support

C62 2 ft. of 16-3 cord pre-wired

C42 2 ft. of 14-3 cord pre-wired

C22 2 ft. of 12-3 cord pre-wired

CV3P 3 ft. of 16-3 cord pre-wired with 3-prong plug for use with pre-wired cages and crossarms⁶

AH Above horizontal aiming

CR Enhanced corrosion resistance

CF Charcoal filter (for use with heavy-duty shroud only)

SLR Stainless steel lens ring

WC Wood crossarm mounting bolt

SCWA Super CWA pulse start ballast (400M only)

IBL Internal bottom louver

CSA CSA Certified

NOM NOM Certified (consult factory)

Dimensions are shown in inches (centimeters) unless otherwise noted.

2.9 ft.2 (.27 m2)

2.5 ft.2 (.23 m2)

23-1/8(58.7)

21-1/2(54.6)

30(76.2)

31-1/2(80)

NEMA2,3:

NEMA2,3:

NEMA2.3:

NEMA4,5,6:

NEMA4,5,6:

NEMA4,5,6:

EPA:

Diameter

Length

Options/accessories

Shipped separately⁷

PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)⁸

PE3 NEMA twist-lock photocontrol (347V)⁸

PE4 NEMA twist-lock photocontrol (480V)⁸

PE7 NEMA twist-lock photocontrol (277V)⁸

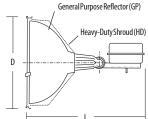
SC Shorting cap

UV Upper visor
FTS Tenon slinfitter

For optional architectural colors, see page 543.

NOTES:

- To order heavy-duty aluminum shroud, change GP to HD in catalog number.
 Example: TV 400S HD2.
- 2 Not available with 1000S or 1000H.
- 3 Not available with 1000H.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Must use mating receptacle, provided by others (n/a 1500M 120V).
- 7 May be ordered as accessory.
- 8 PER must be ordered with fixture.



www.lithonia.com keyword: TV



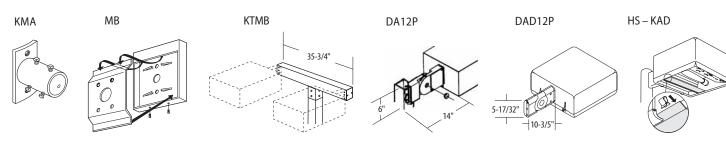
Options and Accessories

= Available as an option, shipped installed													
☐ = Available	AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KVF	
DA12P	Degree mounting arm. 30° max. uptilt in 5°												
	increments. Single or twin 180° config. for KVS.												
DA12WB	Degree arm for wall. 30° max. uptilt in 5°			П									
	incr. Single or twin 180° config. for KVS.												
DAD12P	Degree mounting arm. 30° max. uptilt, 5° incr.												
DAD12WB	Degree arm for wall. 30° max. uptilt, 5° incr.												
HS	House-side shield (consult factory)												
KMA	Mast arm mounting for area lighting, 6" min. arm		П	П	П				1				
	length. Use for 2-3/8" OD pipe.	-	_	_	_	_			_				_
KTMB	Twin mounting bar square mounting arms. (EPA=1.1, wt.=41lbs)		П	П	П								
	Mounts on T25 (2-7/8" OD tenon by 5" tall minimum).									_			_
MA	Master arm for single/twin 180° configuration,												
	internal fitter (Size 3 only).												
MB	Mounting bracket. Use size 1 housing with KSF, KSE.												
PT4	Post-top (4" OD open-top pole).												
PT45	Post-top (4-1/2" OD open-top pole).												
PT5	Post-top (5" OD open-top pole).												
PT6	Post-top. Must use with round pole only for KVR												
	(6" OD open-top pole).												
RP <u>x</u>	Round pole mounting arm.												
RPF20	Round pole fitter (2-3/8" OD tenon).												
RPF25	Round pole fitter (2-7/8" OD tenon).												

Notes:

1 Size one housing only.

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

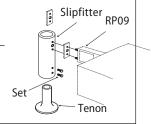


Tenon Slipfitters for Arm-Mounted Luminaires

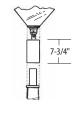
Use with all arm-mounted luminaires. When ordered, fixture must include round pole arm (RP<u>x</u>) or pole degree aiming arm (DA12P or DAD12P). To order, locate catalog number from chart below based on tenon size and mounting configuration. Example: For 3 fixtures at 120°, using a 2-7/8" tenon, catalog number is **T 25-320**. Shipped separately. Order as separate catalog numbers. **For Aeris™ fixture specify AS. Example: AS T20-190**.

Tenon		2 fixtures	2 fixtures	3 fixtures	3 fixtures	4 fixtures
OD	1 fixture	at 180°	at 90°	at 120°	at 190°	at 90°
2-3/8"	T 20-190	T 20-280	T 20-290*	T 20-320*	T 20-390*	T 20-490*
2-7/8"	T 25-190	T 25-280	T 25-290*	T 25-320*	T 25-390*	T 25-490*
4"	T 35-190	T 35-280	T 35-290*	T 35-320	T 35-390*	T 35-490*

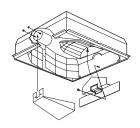
*See product page for size restrictions.







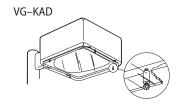
HS - KSF

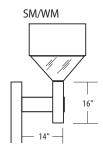


■ = Av	ailable as an option, shipped installed												
□ = Av	ailable as an accessory, shipped separately	AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KVF
SM	Side mount assembly. One per luminaire.												
SP	Square pole mounting arm. Use 9" arm for two at 90°.												
SPF20	Square pole fitter (2-3/8" OD tenon).												
SPF25	Square pole fitter (2-7/8" OD tenon).												
T20	Tenon slipfitter (for 2" pipe tenon 2-3/8" OD).												
T25	Tenon slipfitter (for 2-1/2" pipe tenon 2-7/8" OD).												
VG ³	Vandal guard.					□ ¹		□4	□ ²				
WB <u>x</u>	Wall mount for J-box. (Aeris™ only order WBA.)												
WM	Wall mount. 16" arm is used with a wall plate.												
WW <u>x</u>	Wall for conduit stub 9" or 12".												

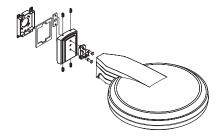
- Only available with FP option.
 Only available in KVS1 (R2, R3 and R4).
- $3\quad \text{Specify family as prefix when ordering as a separate line item}.$
- 4 KVR2 only (n/a KVR3).

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

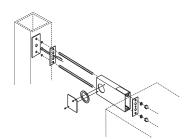




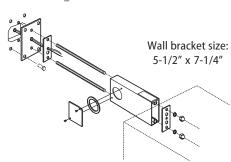
WBA



SP<u>x</u>/RP<u>x</u>



WB<u>x</u>



 $Mounting \ bolts \ (4) \ by \ others. \ Minimum \ fastener \ size \ is \ 1/2'' \ diameter.$

Options and Accessories

Outdoor HID Electrical Options (shipped installed)

- **SF** Single fuse. Use with 120V, 277V, 347V. Not available for multi-tap or multi-volt ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
- **DF** Double fuse. Use with 208V, 240V, 480V. Not available for multi-tap or multi-volt ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
- **GMF** Internal slow-blow fusing for compact fluorescent. Not available for multi-tap or multi-volt ballast. Inline, time delay type fusing isolates faulty luminaire from circuit fusing.
 - **PE** Photoelectric cell (button-type). Not available for multi-tap ballast or 480V.
- **PER** NEMA twist-lock photocontrol receptacle. Photocontrol not included.
- LS Lamp support. Mogul-base socket only.
- **KW1** 120V AC control relay for Kilo-Watch dual-level system. 50% power reduction.
- **KW4** 277V AC control relay for Kilo-Watch dual-level system. 50% power reduction.
- **DS** Dual switching. Two lamps/two ballasts. Requires two separate power inputs so each lamp/ballast combo operates as separate system.
- **LPI** Lamp included and ships in carton with fixture.
- **LPIC** Coated lamp included and ships in carton with fixture.
 - **LP** Lamp factory installed in fixture socket.
- **L/LP** Less lamp. Lamp is not included or shipped with fixture.
- C22 12-3 cord (2' prewired).1
- C42 14-3 cord (2' prewired).1
- **C62** 16-3 cord (2' prewired).¹
- **CV3P** 3 ft. of 16-3 cord pre-wired with 3-prong plug for use with prewired cages and crossarms. Must use matching receptacle, provided by others. Not available with 1500W-120V.¹
- DC12 Auxiliary emergency circuit for MR11 35-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Lamp included and installed at factory (MR11 DC bayonet-base).

- 2DC12 Auxiliary emergency circuit for (2) MR11 35-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Two lamps included and installed at factory (MR11 DC bayonet-base).
- DC2012 Auxiliary emergency circuit for (1) MR11 20-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency source (provided by others). Factory installed only. Lamp included and installed at factory (MR11 DC bayonet-base).
- 2DC2012 Auxiliary emergency circuit for (2) MR11 20-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency source (provided by others). Factory installed only. Two lamps included and installed at factory (MR11 DC bayonet-base).
 - **EC** Emergency circuit. Double-contact, bayonet-base quartz socket with socket leads for use with separate external emergency power system.
 - **ELDW** Integral emergency battery system for compact fluorescent units.
- **ELDWC** Cold weather integral emergency battery system for compact fluorescent units (-20°C to 55°C operation).
- **ELDWR** Remote battery pack (by others) ready for compact fluorescent lamps. Battery pack by others mounted external to luminaire. Pilot light/test switch mounting plate included. Consult factory for availability.
 - QRS Quartz restrike system. Activates when power interruption causes HID lamps to drop out. Deactivates when fixture restrikes. QRS does not energize during cold start of fixture. Wattage of quartz lamp should not exceed that of HID source. For 100W and below, use 100W DC bayonet-base lamp.
- QRSTD Quartz restrike time delay. Functions as does QRS, but quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come on when luminaire is energized and remain on for two minutes after restrike.

- **NL** Incandescent night light, 7W maximum. Lamp included.
- **NLCF** Compact fluorescent night-light, 9W maximum. Lamp included.
 - **OPS** Open plug-in starter.
 - ENP Encapsulated plug-in starter.
- **ENX** External encapsulated plug-in starter.
- **T2P** Terminal block-two position wired L1.L2.
- **T3P** Terminal block-two position wired L1, N, L2.
- **LSA** Single lighting surge arrestor.
- **PSS** Protected automatic shutoff.
- **PD** Power door (ballast tray).
- L/DLD Less docking station.
 - **2/1** Two lamps/one ballast. Requires one power input for system.
- ADCF Advance electronic fluorescent ballast. Requires 4-pin lamp (120V or 277V only).
- MOTCF Osram Sylvania electronic fluorescent ballast. Requires 4-pin lamp (120V or 277V only).
- **TUBCF** Universal Lighting Technologies electronic fluorescent ballast.
- ADEZ Advance Mark 10° electronic line voltage control dimming ballast (120V or 277V; 26/DTT, 26TRT and 32TRT).
- **DMHL** Lutron Hi-Lume® electronic 3-wire line voltage control dimming ballast (120V or 277V; 26/DTT, 26TRT and 32TRT).

NOTES:

1 For other cord lengths and cord ratings consult factory.

 $Not all \ options \ are \ available \ with \ all \ fixtures. See \ product \ pages \ for \ details.$

Outdoor HID Electrical Options (shipped installed)

PE1	NEMA twist-lock photocontrol, (120V,
	208V, 240V).

PE3 NEMA twist-lock photocontrol, (347V).

PE4 NEMA twist-lock photocontrol, (480V).

PE7 NEMA twist-lock photocontrol, (277V).

PEU NEMA twist-lock PE included per voltage specified.

SC Shorting cap for PER. Ships as SC U.

HRB HID remote ballast for Indoor use where quiet performance is required or ballast must be mounted remotely from luminaire. White finish is standard.

HRBW HID remote ballast for outdoor use.

Designed for remote pole or ground mounting applications.

Black finish is standard.

FG Festoon outlet. Duplex ground fault receptacle. Cast box.

VGRDS Gateway® decorative shroud for round deep units. Attaches to cast housing to cover conduit entry holes. Can be ordered as an option or an accessory (Example: VGRDS DWHG).

Outdoor HID Options (shipped installed)

CF Charcoal filter.

HSS Stainless steel external hardware.

TLS Tool-less entry.

NML NEMA label.

DPL Distribution pattern indicator level.

HKP Hinge keeper.

BLV Bubble level.

TRS Stainless steel Torx® T20 tamper-resistant screws with center reject pin.

NOTES: Not all options are available with all fixtures. See product pages for details

Architectural Colors

Powder finish. Add designation as suffix to catalog number. Additional architectural colors are available. See Architectural Colors brochure on www.lithonia.com.

*For color and finish standards and availability by product, please see individual product specification pages.

Standard colors

DDB Dark bronzeDBL BlackDWH White

Textured colors

DDBT Dark bronze
DSST Sandstone
DNAT Natural aluminum

DWHG White **DBLB** Black

DBNH BronzeDSPD Dark grayDSPJ Light gray

DSPE Green DSPG Dark red

DSPF Rust **DSPH** Red

Classic colors

DMB Medium bronze
DNA Natural aluminum
DGC Charcoal gray
DSS Sandstone
DSB Steel blue
DTG Tennis green
DBR Bright red

Fixture finishes

ADB Anodized dark bronze. Architectural

CR Enhanced corrosion resistance for additional protection against some corrosive atmospheres. Consult factory for corrosive compatibility.

CRT Non-stick protective coating (black finish only)

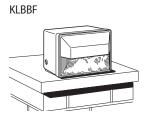


Site Lighting and Building Mounted Lighting

	ble as an option, shipped installed ble as an accessory, shipped separately	ACD	ACIM	VD A	VD.C	VDD.	VDF.	VDD.	VDC.	1/1	T14/11	TWD	TWA/	TWD	TWDC	TIME	WEI	WSR/WST	VGR/
	* '' '	ASB	ASW	KBA	KBC	KBD	KBE	KBR	KBS	KL	TWH	TWP	TWAC	TWR	TWRC	IWS	WFL	WSQ	VGO
BBF	Backbox for flat surfaces.									_									
BBR	Backbox, recessed (ceiling, soffit mount).																		
BBS	Backbox for stud wall construction.																		
BBW ¹	Backbox for surface wall installation.																		
FS	Full shield for IES cutoff.																		
FCV	Full cutoff visor.																		
PC	Polycarbonate lens.																		
R6S/R8S	Half-shield, not for use with louvered bollards.																		
S6S/S8S	Half-shield, not for use with louvered bollards.																		
WG ¹	Wireguard.																		
VG ¹	Vandal guard.																		
UT5	Uptilt 5 degrees.																		
DFL	Diffusing lens.																		
WLU	Wet location door for up orientation.																		
IBS	Internal backlight shield.																		
LC90	Lock at 90° for full cutoff.																		
UCS	Uplight component shield for WSR, inverted																		
	orientation with FTU or WTU distribution.																	-	
HS	House-side shield for SR2,SR3 or SR4W (size 2).																		
TRS	Stainless steel Torx® T20 tamper-resistant																		
	screws with center reject pin.																		
VGRDS ²	Gateway decorative shroud for round deep																		
	units. Attaches to cast housing to cover conduit																		
	entry holes. Can be ordered as an option or as																		J
	an accessory (Example: VGRDS DWHG).																		

NOTES:

- 1 Specify family prefix.
- 2 Available with deep VGR only.







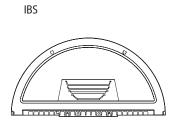


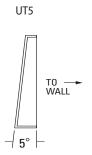


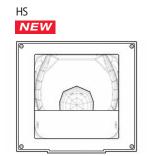










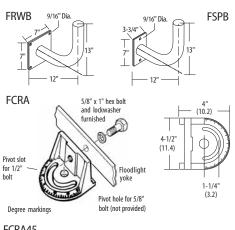






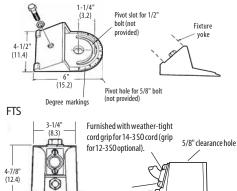
Floodlighting, Garage Lighting and Sportslighting

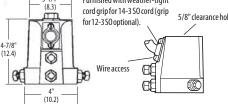
■ = Availa		Garag	je	Sp	orts				F	loodli	ghtin	g				
	ole as an accessory, shipped separately	PGR	KPS	KACM	TSP	TV	ASF	KFL	55	95	1705	TFA	TFR	TFL	TFM	TSL
HS	House side shield (glare shield).															
BDS	Bird deterrent shroud.															
OJB	Offset junction box.															
RMG	Recessed mount in grid ceiling.															
SS	Stainless steel ceiling mount housing (alloy 304 stainless steel).															
AH	Above horizontal aiming.															
CF	Charcoal filter; must use with heavy-duty shroud.															
FCRA ¹	Crossarm adapter for horizontal mounting (use with yoke mount only).															
FCRA45 ¹	Crossarm adapter for horizontal mounting 45° (use with yoke mount only).				2											
SLR	Stainless steel lens rings.															
IBL	Internal bottom louver; cannot order IBL and TVUV together.															
FRWB ¹	Radius wall bracket; 2-3/8 diameter (use with slipfitter mount only). Standard finish is DDB.															
FSAB ¹	Steel angle bracket (use with yoke mount only). Standard finish is DDB.															
FSPB ¹	Steel square pole bracket (for use with existing poles). 2-3/8" diameter															
	(use with slipfitter mount only). Standard finish is DDB.															
FPMB ¹	Pipe/wood/pole/wall mounting bracket. Mounts to 2" schedule 40 pipe															
	(use with yoke mount only).															
FWPB ¹	Wall bracket (pipe) (use with yoke mount only).															
FTS ¹	Tenon slipfitter; fits 2-3/8" to 2-7/8" OD tenon (use with yoke mount only).															
TVTS ¹	Tenon slipfitter; fits 2-3/8" to 2-7/8" OD tenon.															
TFMTS1	Tenon slipfitter for 1/2" threaded knuckle; fits 1-1/4" to 2-3/8" OD tenon.															
TVUV	Upper visor; cannot be used with IBL.															
FCX2 ¹	2-light wood pole crossarm (use with yoke mount only).															
FCX3 ¹	3-light wood pole crossarm (use with yoke mount only).															
FCX4 ¹	4-light wood pole crossarm (use with yoke mount only).															
TVWC ¹	Wood crossarm mount bolt 5/8" - 11UNC, 8" length.															
YK	Yoke mount, painted.															
GYK	Yoke mount, galvanized.															
EY	Extended yoke.															
THK	Threaded knuckle mount.															
IS	Integral slipfitter; fits 2-7/8" max. OD with TFA, 2-3/8" with TFL and TFR.															
							. NO	TFS-								

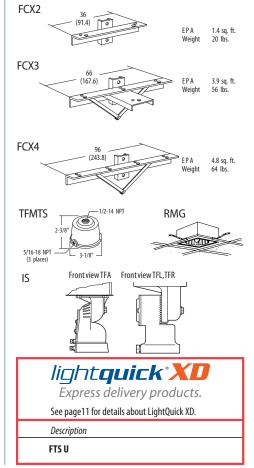


FCRA45







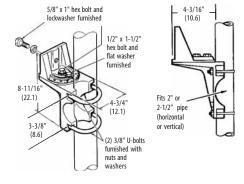


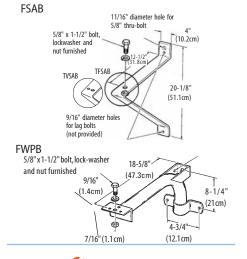
www.lithonia.com

NOTES:

- 1 Order as separate catalog number.
- $2\quad Ships standard with TSP. Order as separate catalog number for other families.$

FPMB





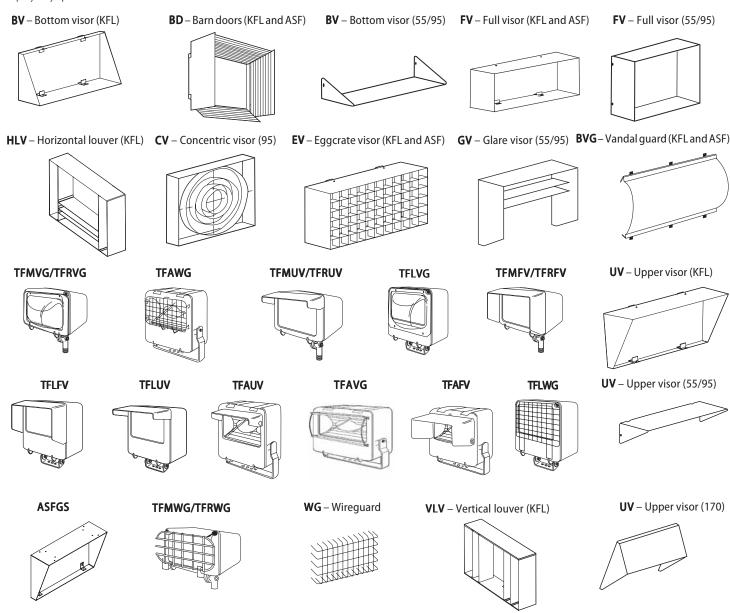


Floodlighting

☐ = Available	as an accessory, shipped separately	ASF	KFL/WFL	55	95	1705	TFA	TFR	TFL	TFM
BD ²	Barn doors									
BV ²	Bottom visor									
BVG ²	Vandal guard									
CV ²	Concentric visor									
EV ²	Eggcrate visor (black finish)									
FV ²	Full visor									
FV/BVG ²	Full visor and vandal gaurd									
GS ²	Glare shield (upper or bottom visor)									
GV ²	Glare visor									
HLV ²	Horizontal louver (black finish)									
VG ^{1,2}	Vandal guard									
UV ²	Upper visor									
UV/BVG ²	Upper visor and vandal guard									
VLV ²	Vertical louver (black finish)									
WG ²	Wire guard									

NOTES:

- 1 Vandal gaurds are compatible with all wattages.
- 2 Specify family as prefix.





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■ = Available as an acce	ssory, shipped separately	ASF1	ASF2	KFL	55	95	1705	TFA	TFR	TFL	TFM
AJB	Architectural J-box, accepts 1/2" NPT THK.										
AFJB	Architectural J-box, accepts ASF1 standard mounting (3/4" NPT THK).										
EWB	Extended wall bracket, yoke mount only.										
AFTMB	Twin mounting bar. Requires tenon slipfitter mounting (2-3/8" OD tenon).										 2
AFTMBTHK	Twin mounting bar, accepts ASF1 standard mounting (3/4" NPT THK).										
KFLTMBTHK	Twin mounting bar for THK option. Only compatible with KFLTHK (1/2" NPT).										
AFSTM	Stanchion mount. Requires tenon slipfitter mounting (2-3/8" OD tenon).										□ ²
AFSTMTHK	Stanchion mount, accepts ASF1 standard mounting (3/4" NPT THK).										
KFLSTMTHK	Stanchion mount, accepts 1/2" NPT THK (use with THK mounting only or standard TFM).										
AFTM	Tenon base mount. Requires tenon slipfitter mounting (2-3/8" OD tenon).										 2
AFWMA	Wall mount arm. Requires tenon slipfitter mounting (2-3/8" OD tenon).										 2
AFWMATHK	Wall mount arm, accepts ASF1 standard mounting (3/4" NPT THK).										
KFLWMATHK	Wall mount arm for THK option. Only compatible with KFLTHK (1/2" NPT THK).										
AFWMPTHK	Wall mount plate, accepts ASF1 standard mounting (3/4" NPT THK).										
TS	Tenon slipfitter. Fits 2-3/8" to 2-7/8" OD tenon (use with yoke mount only).										
AFTS	Tenon slipfitter, accepts ASF1 standard mounting (3/4" NPT THK).										
STM	Stanchion mount — general purpose (2-3/8" OD tenon).										 2

NOTES:

- 1 When used with TFM yoke a 3/8" bolt, two lockwashers and nuts must be furnished by others.
- 2 For use with TFMTS.

STM – Stanchion mount, general purpose **AFTM** – Tenon base mount



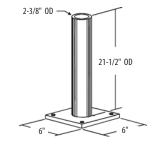
AFJB and AJB-Architectural junction box



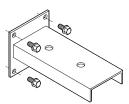
AFTMB – Twin mounting

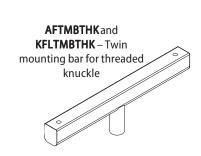
bar for tenon slipfitter

mounting

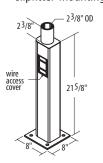


EWB - Extended wall bracket





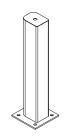
AFSTM - Stanchion mount for tenon slipfitter mounting



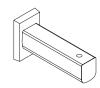
AFWMA – Wall mount for tenon slipfitter mounting



AFSTMTHK and KFLSTMTHK -Stanchion mount for threaded knuckle



AFWMATHK and KFLWMATHK – Wall mount arm for threaded knuckle



AFWMPTHK – Wall mounting plate for 3/4" NPT threaded knuckle



AFTS – Tenon slipfitter fo 3/4" NPT threaded knuckle



Nighttime Friendly™ Lighting

Lithonia Lighting is a leader in providing a variety of outdoor luminaires devoted to energy and environmental concerns. Many communities are interested in maintaining nighttime visibility, safety and security while preserving the night sky. Quality outdoor lighting considers the visual needs of the application while reducing glare and light trespass onto neighboring properties, therefore minimizing sky glow and overall ener-



Nighttime Friendly designates products with superior optical control that are consistent with the goals of USGBC LEED® and meet Green Globes™ product criteria for light pollution reduction. These products are full cutoff and no more than 10% of the lumens from the luminaire are emitted above 80 degrees from nadir.

gy usage. Listed below are several Lithonia Lighting product families that include a wide range of cutoff and full-cutoff luminaires that produce quality lighting and minimize night sky glow.

The Illuminating Engineering Society of North America (IESNA, or IES) provides classifications for luminaires according to their glare control and high-angle brightness. These classification, along with their benefits and limitations, are described in the Technical and Design Considerations section on page 725.

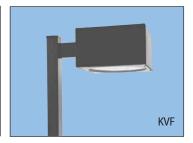
Acuity Brands Lighting uses Nighttime Friendly™ to identify products that reduce negative im-

pacts on the nighttime environment. Products designated with the Nighttime Friendly logo have no uplight, meet the IESNA definition for full cutoff optics and reduce high angle brightness. These measures of luminaire performance are consistent with sustainability standards for light pollution reduction.

For applications where there is a concern with light trespass on neighboring properties, consider products that limit light behind the pole, such as the Type 4 sharp cutoff optical system or house side shielding.









Area Lumina	ires				Trespass Solutions
	Meets Nighttime	Full	PSG		Sharp Cutoff
Luminaire	Friendly™ Criteria	Cutoff	Page	Comments	Optical System
AS	✓ 1	~	472	Aeris™ die-cast housing, dedicated optical platform, 2 housing sizes, flat lens, 400W max.	SR4SC
AST	✓ 1	~	473	Aeris™ die-cast housing, dedicated optical platform, aesthetically pleasing tension rod assembly, 2 housing sizes, flat lens, 400W max.	SR4SC
KAD	V	~	476	Square die-cast housing, flat lens, 400W max.	SR4SC
KADT	~	~	477	Square die-cast housing, aesthetically pleasing tension rod assembly, flat lens, 400W max.	SR4SC
KSF	V	~	475	Rectangular housing, 3 housing sizes, flat lens, 1000W max.	R4SC
KSE	V	~	474	Crisp square housing, 2 housing sizes, flat lens, 400W max.	R4SC
KVF	✓ ²	~	478	Square vertical lamp, flat lens, 1000W max.	SR4SC
KAR		~	482	Round housing, 3 housing sizes, flat lens, 1000W max.	

NOTES

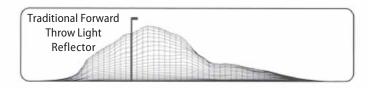
- 1 May not meet Nighttime Friendly™ standards with HS option.
- $2 \quad Will \, not \, meet \, Night time \, Friendly ^{TM} \, standards \, with \, DL \, or \, EHS \, options.$

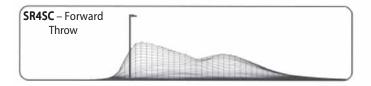
Sharp Cutoff & Light Trespass

Spill light or light trespass is the light that illuminates surfaces beyond the property line. An example is the light on a bedroom wall coming through the window from the ball field across

the street. A number of ordinances place limits on spill light near the property line as the sole means of controlling light trespass. The most effective way to minimize spill light from a location is to apply forward throw optics around the perimeter. Lithonia Lighting's R4SC optic is designed specifically for this application.

For more information on sharp cutoff, visit www.lithonia.com/CutoffLighting/ Areal uminaires.htm.



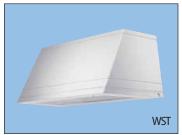




Lithonia Lighting has a diverse selection of building-mounted luminaires to complement our various Nighttime Friendly™ area luminaires. Listed below are several product families that include a

wide range of cutoff and full-cutoff luminaires that produce quality lighting and minimize night sky glow.









Building Mounted Luminaires

	Meets Nighttime				
Luminaire	Friendly Criteria	Full-Cutoff	Cutoff	PSG Page	Comments
ASW	✓ ²	V		504	Aeris™ die-cast housing, architectural style, 2 housing sizes, 400W max.
WSR ¹ ,WST, WSQ	✓ ³	~		506	Decorative die-cast housing, 175W max.
WFL	✓ ²	~		505	Architectural style, 2 housing sizes, 400W max., can be ordered with LC90 option to prevent field adjustment.
TWAC			V	513	Vandal-resistant, polycarbonate lens, 100W max.
TWRC			~	515	General purpose, die-cast aluminum and tempered glass, 400W max., optional full cutoff visor (FCV)
TWR1S	V	V		514	General purpose, die-cast aluminum and tempered glass, 175W max.

NOTES:

- 1 WSR is downlight only.
- 2 May depend on optical selection. Consult factory.
- $3\quad Does \,not\,meet\,Night time\,Friendly^{TM}\,standards\,with\,uplight\,distribution\,options.$

REFERENCES

DESIGN RECOMMENDATIONS FROM INDUSTRY ASSOCIATIONS

IESNA

The Illuminating Engineering Society of North America provides a variety of reference material on effective outdoor lighting design. Both the IESNA Lighting Handbook, 9th edition, and Recommended Practice No. 33 (RP-33-99), Lighting for Exterior Environments, offer discussions on design practices and suggested spill light limitations.

NEMA

The Luminaire Section of the National Electrical Manufacturers Association published a document entitled "White Paper on Outdoor Lighting Code Issues". This paper highlights the pros and cons of methods to control light trespass.

The NEMA Statement of Principles on Outdoor Lighting Codes also provides general guidance in the establishement of local lighting ordinances.

IDA

The International Dark-Sky Association is a grass-roots organization that promotes quality out-door lighting practices. Of particular interest to IDA is the reduction of sky glow. Their guidelines are of significant benefit for lighting installations near astronomical observatories or intrinsically dark areas such as national parks.

 $Lithonia\,Lighting\,is\,a\,member\,of, and\,participates\,in\,the\,activities\,of\,all\,the\,associations\,above.$



Floodlighting Design Guidelines

IES Classifications

for general-purpose floodlighting

The IES beam spreads indicate the angular ranges (horizontally and vertically) through which the intensity of the floodlight is greater than 10% of its maximum intensity. This angular range is referred to as the 'Field Angle'.

For example:

Asymmetrical beam spread 138° (H) x 119° (V) HORIZONTAL VERTICAL = IES 7 x 6

IES B	eamspread Cla	ssification
Field		
angle	IES	Beam
degrees	type	description
10° up to 18°	1	very narrow
18° up to 29°	2	narrow
29° up to 46°	3	medium narrow
46° up to 70°	4	medium
70° up to 100°	5	medium wide
100° up to 130°	6	wide
130° and up	7	very wide

The IES classification was formerly referred to as NEMA Type.

The following outdoor design tips provide general guidelines for lighting design. These guidelines may not apply to all applications.

GROUND-MOUNTED FLOODLIGHTS

Ground-mounted floodlights are used to light building facades, signs and flagpoles.

Facade Lighting

When lighting building facades with ground-mounted floodlights, three factors are considered: setback, spacing and aiming.

Facade lighting considerations:

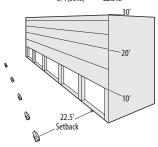
- 1. Setback
- 2. Spacing
- 3. Aiming

A LITHONIA LIGHTING

Setback

The recommended setback is three-fourths the building height. If a building is 30 feet tall, the recommended setback is 22.5 feet from the building. Locating the floodlight closer to the building will sacrifice uniformity; setting it farther back will result in a loss of efficiency.

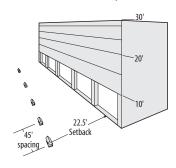
Setback distance = $3/4 \times building height$ 3/4(30 ft.) = 22.5 ft.



Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 22.5 feet, the floodlights should not be placed more than 45 feet apart.

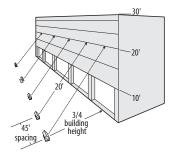
Spacing = 2xsetbackdistance 22.5ft.x2 = 45ft.apart



Aiming

The floodlight should be aimed at least twothirds the height of the building. For example, if a building is 30 feet high, the recommended aiming point is approximately 20 feet high. After installation is complete, aiming can be adjusted to produce the best appearance. Mounting a full or upper visor to the floodlight can reduce unwanted spill light.

> Aiming point = 2/3 x building height 2/3(30ft.) = 20 ft. high



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Sign Lighting

When lighting a sign with ground-mounted floodlights, there are three considerations: set-back, spacing and aiming.

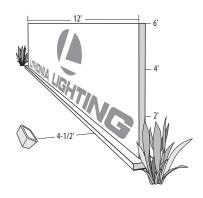
Sign lighting considerations:

- 1. Setback
- 2. Spacing
- 3. Aiming

Setback

When using ground-mounted floodlights to light a sign, the recommended setback is a distance equal to three-fourths the sign height. For example, the setback distance for a 12-foot by 6-foot sign would be 4.5 feet. Locating the floodlight closer will sacrifice uniformity while setting it farther back will result in a loss of efficiency.

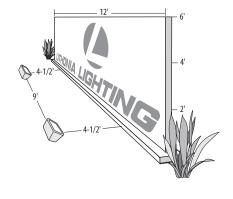
Setback distance = 3/4 x sign height 3/4 (6ft.) = 4.5 ft.



Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 4.5 feet, the floodlights should not be placed more than 9 feet apart.

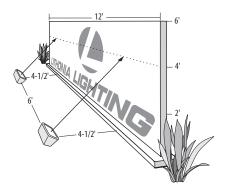
Spacing = 2 x setback distance 4.5 ft.x2 = 9 ft. apart



Aiming

The floodlight should be aimed at least twothirds up the sign. For example, if a sign is six feet tall, then the floodlight will be aimed approximately four feet high. After installation is completed, aiming can be adjusted to produce the best appearance. Mounting a full or upper visor to the floodlight can reduce unwanted glare.

> Aiming point = 2/3 x sign height2/3 (6ft.) = 4ft. high



Flag Lighting

Ground-mounted floodlights also can be used to light flags. Setback, spacing and aiming must all be considered.

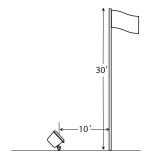
Flag lighting considerations:

- 1. Setback
- Spacing
- 3. Aiming

Setback

The recommended setback for lighting a flag is one-third times the pole height. If the pole is 30 feet tall, the floodlight should be set back a distance of 10 feet away from the pole.

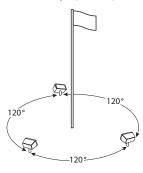
> Setback distance = 1/3 x pole height 1/3(30 ft) = 10 ft



Spacing

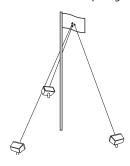
Ideally, three floodlights are recommended to light a flag. The floodlights should be placed approximately 120° apart.

3 floodlights spaced 120° apart



Aiming

The recommended aiming point for each floodlight is the center of the flag or the top of the pole. Mounting a full or upper visor to the floodlight can reduce unwanted spill light.



POLE-MOUNTED FLOODLIGHTS

General Area Lighting

Pole-mounted floodlights commonly are used for general area lighting applications such as parking lots and storage yards. Mounting height, spacing, vertical aiming and horizontal aiming should be considered.

General lighting considerations:

- 1. Mounting height
- Spacing
- Vertical aimiing
- Horizontal aiming

Mounting Height

The recommended mounting height is one half the distance across the area to be lighted. If the area to be lighted is 40 feet across, the lowest recommended mounting height is 20 feet.

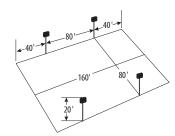
Mounting height = 1/2 distance to be lighted 1/2(40 ft) = 20 ft40' www.lithonia.com

Spacing

Floodlighting Design Guidelines

When more than one pole is added, pole placement is a concern. The "4 times" rule of thumb for spacing indicates that a pole should be placed four times the mounting height from the adjacent poles. If a flood is mounted on a 20-foot pole, space the poles 80 feet apart.

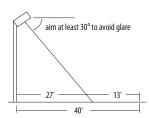
> Pole spacing = 4x mounting height 4(20-ft.pole) = 80 feet between poles



Vertical Aiming

A single floodlight uses the two-thirds rule of thumb for vertical aiming. The fixture is aimed two-thirds of the distance across the area to be lighted and at least 30° below horizontal. If the area to be lighted is 40 feet across, the recommended aiming point is 27 feet.

> Aiming point = 2/3 across distance to be lighted 2/3 (40 ft.) = 27 ft. aiming point

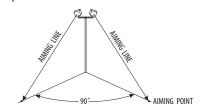


Additionally, to minimize glare, the recommended aiming point distance should never exceed twice the mounting height. If a pole is 20 feet high, the vertical aiming point should not exceed 40 feet out.

2(20 ft. mtg. ht.) = 40 ft.

Horizontal Aiming

When an additional floodlight is added to a single pole, horizontal aiming also must be considered. First, each floodlight should be vertically aimed according to the two-thirds rule. As long as the floodlight has a horizontal NEMA 6 or 7 beamspread, the floodlights can be aimed up to 90° apart.





General Information – Poles

(Poles are available only in U.S.)

All luminaire/pole assemblies require proper evaluation to ensure that the structural integrity of the assembly is not compromised when applied in specific wind conditions. Therefore, the basis for pole selection in this catalog is total weight and effective projected area, EPA (ft2), shown on the individual pole catalog pages. Determination of maximum EPA (ft2) and weight loading must include all luminaires, bracketry, signs, decoration, overhead wire or other equipment that will be mounted to the subject pole. Luminaire EPA (ft²) and weight data are found on their respective product pages.

The total effective projected area of the luminaires and brackets shall not exceed the EPA (ft²) listed for the pole selected at a given wind velocity. Poles that are to be located in areas of known abnormal conditions will require special consideration. Please consult factory if poles are requires for Florida Building Code or ohter special wind load requirements. The map on page 553 gives the wind velocities to be used in determining luminaire pole compatibility.

NOTE: If during the pole warranty period of one year, the product proves defective in material or workmanship, the company shall correct, at its option, by repairing or replacing at no charge to the purchaser, if the purchaser promptly notifies the company. This warranty specifically excludes fatigue failure or similar phenomena resulting from induced vibration harmonic oscillation or resonance associated with the movement of air currents around the product.

Pole Selection Procedure

- **Step 1.** Select the luminaire and decide how many will be mounted per pole. Determine the Effective Projected Area, EPA (ft²), which is given on the dimensional information table.
- **Step 2.** Determine the appropriate mounting method for the luminaire. Options include arm, bracket or wall mounting.
- **Step 3.** Add together the EPA's (ft²) of the luminaire and arm/bracket. Multiply by number of fixtures to be mounted on one pole.
- Consult the Wind Map on page 553 to determine the basic wind velocity for
- **Step 5.** Select the material (steel or aluminum) and shape (square or round) of the pole. Refer to the "Technical Information" chart on the appropriate pole page.
 - Find the desired nominal mounting height in the second column.
 - Verify that the fixture weight does not exceed the maximum number listed.
 - Compare your total EPA (ft²) loading with the maximum EPA (ft²) value found in the wind speed column for your area. Check that the equipment you are using will not exceed this value.
 - If both the weight and EPA (ft²) values do not exceed for which the pole is rated, you have selected the correct pole. If, however, either one of those numbers exceeds the maximum rated values, compare the EPA (ft2) and fixture weight loads to the next larger pole of the same mounting height.

NOTES: "Call Before Number" and complete pole description MUST be included before order can be processed. Bolt templates will be shipped with anchor bolts. To pre-ship templates, place an order for the appropriate template number with <u>Literature.Lithonia@AcuityBrands.com</u> **CAUTION:** This pole selection process is a quideline only. Lithonia Lighting assumes no responsibility for selection and recommends consultation with qualified individuals for verification of luminaire/pole assembly selection.

Ordering Information

Shaft type Nominal mounting height SSS Square straight steel 8-50 feet sportslighting poles up to 115'. RSS Round straight steel See submittal sheets for specific STS Square tapered steel information. RTS Round tapered steel RTSU Round tapered steel with arm(s) STSH Square tapered steel hinged SPRTS Round tapered steel sportslighting SSA Square straight aluminum SSCA Square straight aluminum, cruciform RSA Round straight aluminum RTA Round tapered aluminum RTAU Round tapered aluminum with arm(s) Round straight aluminum hinged SSAH Square straight aluminum hinged Round tapered fiberglass Round tapered fiberglass direct RTFDR burial Square straight fiberglass **STC** Square tapered concrete SPRTC Round tapered concrete

Nominal shaft base size/ wall thickness (in.) **4 C** 0.125 5 E 0.156 **G** 0.188 7 J 0.250

0.312

9 L 0.219

10 P 0.375

PT Open-top Tenon mounting **T20** 2-3/8" OD (2" NPS) T25 2-7/8" OD (2-1/2" NPS) **T30** 3-1/2" OD (3" NPS) T35 4" OD (3-1/2" NPS) Drill mounting DM19 1 at 90° DM28 2 at 180° DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° DM32 3 at 120° (round poles) Aeris drill mounting DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° DM32AS 3 at 120° (round poles)

Fixture mounting method

Options Finish¹ See pages 576-579. DWH DBL RΔ Classic colors DNA DSS DTG DBR DSB ABL Black ADB ANA Existing colors

Architectural colors² Polvester powder Standard colors **DDB** Dark bronze White Black Brushed Aluminum³ DMB Medium bronze Natural aluminum Sandstone **DGC** Charcoal grav Tennis green Bright red Steel blue Class 1 architectural anodize4

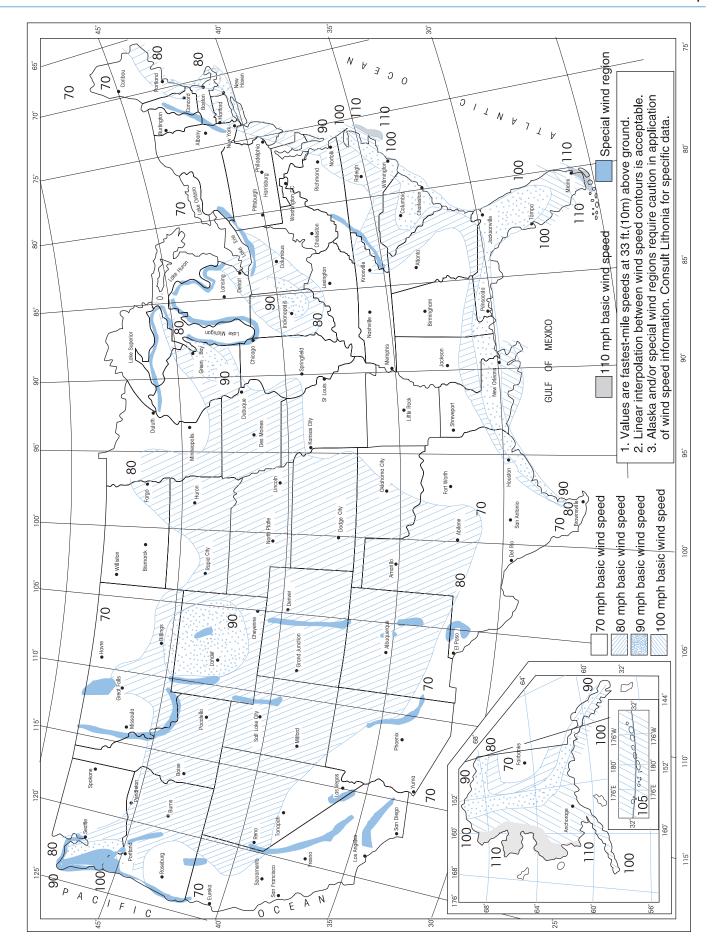
Example: SSA 16 4G DM19 DMB

Dark bronze Natural MAEX Match existing

NOTES:

- 1 Finish must be specified (poles do NOT ship DDB as standard)
- $Additional \, architectural \, colors \, available; see \, Achitectural \, Colors \, brochure \, on \, an extension \, and \, architectural \, colors \, brochure \, on \, an extension \, and \, architectural \, colors \, brochure \, on \, an extension \, and \, architectural \, colors \, brochure \, on \, an extension \, and \, architectural \, colors \, brochure \, on \, an extension \, architectural \, colors \, brochure \, on \, architectural \, colors \, brochure \, architectural \, colors \, brochure \, architectural \, colors \, archit$ www.lithonia.com
- 3 Aluminum poles only.
- 4 RTA, RSA, SSA, RTAU, RSAU, SSCA only.

sportslighting



LITHONIA OUTDOOR

554

SSS

Features

Shaft - Weldable grade, hot-rolled, commercialquality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), 50,000 psi (7gauge). Uniform wall thickness of .125" or .188". Shaft is one piece with a longitudinal, electric, resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor Base – Fabricated from hot-rolled carbon steel plate that meets or exceeds a minimumyield strength of 36,000 psi. The anchor base is provided with slotted holes.

Anchor Bolts - Top 12" galvanized per ASTM A-153. Made of 3/4" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Grounding - Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole - Rectangular, reinforced handhole rim having nominal dimensions of 3"x5" for all shafts. Included is steel cover with attachment screws.

Hardware - Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover finished to match pole.



Express delivery products.

See page11 for details about LightQuick XD.

Description

SSS 20 4C DM28 PL DDB SHAFT ABSSS-4C

Ordering Information: See page 552

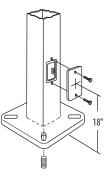
NOTE: Poles are available only in U.S.

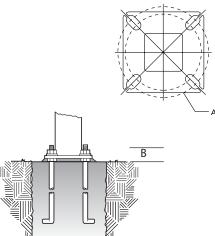
INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with $foundation. Factory-supplied \, templates \, must \, be \, used \, when \, setting \, anchor \, bolts.$ $Lithonia\,Lighting\,will\,not\,accept\,claim\,for\,incorrect\,anchorage\,placement\,due\,to$ failure to use Lithonia Lighting factory templates.

 $Do \, not \, erect \, poles \, without \, having \, fix tures \, installed.$

 $If poles\,are\,stored\,outside, all\,protective\,wrapping\,must\,be\,removed\,immediately$ to prevent finish damage.





Technical Information

EPA (ft2) with 1.3 gust

	Nom.	Pole	Wall								Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.		80	Max.	90	Max.	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	Gauge	mph	wt.	mph	wt.	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
SSS 10 4C	10	4.0x10.0	0.125	11	30.6	765	23.8	595	18.9	473	8-9	3/4x18x3	75
SSS 12 4C	12	4.0x12.0	0.125	11	24.4	610	18.8	470	14.8	370	8–9	3/4x18x3	90
SSS 14 4C	14	4.0x14.0	0.125	11	19.9	498	15.1	378	11.7	293	8–9	3/4x18x3	100
SSS 16 4C	16	4.0x16.0	0.125	11	15.9	398	11.8	295	8.9	223	8-9	3/4x18x3	115
SSS 18 4C	18	4.0x18.0	0.125	11	12.6	315	9.2	230	6.7	168	8-9	3/4x18x3	125
SSS 20 4C	20	4.0x20.0	0.125	11	9.6	240	6.7	167	4.5	150	8–9	3/4x18x3	140
SSS 20 4G	20	4.0x20.0	0.188	7	16.5	415	12.25	310	9.3	240	8-9	3/4x30x3	198
SSS 20 5C	20	5.0x20.0	0.125	11	17.7	443	12.7	343	9.4	235	10-12	1x36x4	185
SSS 20 5G	20	5.0x20.0	0.188	7	28.1	703	21.4	535	16.2	405	10-12	1x36x4	265
SSS 25 4C	25	4.0x25.0	0.125	11	4.8	150	2.6	100	1.0	50	8-9	3/4x18x3	170
SSS 25 4G	25	4.0x25.0	0.188	7	10.8	270	7.7	188	5.4	135	8-9	3/4x30x3	245
SSS 25 5C	25	5.0x25.0	0.125	11	9.8	245	6.3	157	3.7	150	10-12	1x36x4	225
SSS 25 5G	25	5.0x25.0	0.188	7	18.0	350	12.6	350	9.0	250	10-12	1x36x4	320
SSS 30 4G	30	4.0x30.0	0.188	7	6.4	160	4.0	100	2.3	58	8-9	3/4x30x3	295
SSS 30 5C	30	5.0x30.0	0.125	11	4.7	150	2.0	50	—	—	10-12	1x36x4	265
SSS 30 5G	30	5.0x30.0	0.188	7	10.7	267	6.7	167	3.9	100	10-12	1x36x4	380
SSS 30 6G	30	6.0x30.0	0.188	7	15.7	392	10.2	257	6.4	160	11–13	1x36x4	520
SSS 35 5G	35	5.0x35.0	0.188	7	5.9	150	2.5	100	—	—	10-12	1x36x4	440
SSS 35 6G	35	6.0x35.0	0.188	7	9.5	237	5.0	150	1.8	50	11–13	1x36x4	540
SSS 39 6G	39	6.0x39.0	0.188	7	5.1	128	1.3	33	_	_	11–13	1x36x4	605

			Pole D	ata		
Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt and template description	Anchor bolt description	Template number
4"C	8-1/2"	2-3/4"-4"	8"	ABSSS-4C	AB18-0	PJ50004
4"G	8-1/2"	2-3/4"-4"	8"	ABSSS-4G	AB30-0	PJ50004
5"	10"-12"	3-3/8"-4"	11"	ABSSS-5	AB36-0	PJ50010
6"	11"-13"	3-3/8"-4"	12-1/2"	ABSSS-6	AB36-0	PJ50011

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- · Bolt lengths described are normal. Actual bolt lengths may vary.
- · Direct burial option available, consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.



RSS

Features

Shaft – Weldable grade A500 or A513 carbon steel tubing with minimum yield of 46,000 or 42,000 psi. Uniform wall thickness of .120". Shafts are one-piece construction with a full longitudinal weld. The round, straight tube is uniform in cross-section down length of shaft.

Anchor Base – Fabricated from carbon steel plate (ASTM A-36) 3/4" thickness. Base plate and shaft are circumferentially welded at both top and bottom to provide maximum strength at area of critical stress.

Anchor Bolts - Top 12" is galvanized per ASTM

A-153. Made of carbon steel bar with minimumyield strength of 55,000 psi.

Grounding – Nut holder located immediately inside hand hole is tapped for 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole – Nominal 3"x5" hand hole is located 18" above base. Cover and attachment hardware provided.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover finished to match pole.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole	Wall							Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.	80	Max.	90	Max.	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	wt.	mph	wt.	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
RSS 8 4-5B	8	4.5 x 8.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	55
RSS 10 3B	10	3.0 x 10.0	0.120	10	250	7.7	190	6.0	175	8	3/4 x 18 x 3	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15.0	375	12.2	305	8	3/4 x 18 x 3	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	8	3/4 x 18 x 3	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	8	3/4 x 18 x 3	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	8	3/4 x 18 x 3	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	8	3/4 x 18 x 3	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	8	3/4 x 18 x 3	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	8	3/4 x 18 x 3	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	8	3/4 x 18 x 3	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	8	3/4 x 18 x 3	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	8	3/4 x 18 x 3	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	8	3/4 x 18 x 3	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	8	3/4 x 18 x 3	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	_	_	8	3/4 x 18 x 3	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	8	3/4 x 18 x 3	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	8	3/4 x 18 x 3	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	8	3/4 x 18 x 3	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	8	3/4 x 18 x 3	145
RSS 25 4-5B	25	4.0 x 25.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	8	3/4 x 18 x 3	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	8	3/4 x 18 x 3	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	8	3/4 x 18 x 3	210

		P	ole Data		
Shaft base	Bolt circle	Bolt projection	Base square	Anchor bolt	Template
size	Α	В	C	description	number
3	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
4"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
4-1/2"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
5"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041

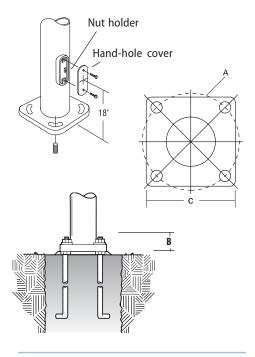
Ordering Information: See page 552 NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do note rect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- Mounting arrangement: (PT) open top accepts KKR; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- $\bullet \ Brackets, see \,page \,578.$
- $\bullet \ \ Bolt lengths described are nominal. Actual bolt lengths may vary.$
- Direct burial option available, consult factory.
- 3-bold bases available.
- $\bullet \ \ Galvanized \ anchor bolts \ available, consult factory.$
- $\bullet \ Consult factory if product must meet "Buy America" specifications.$





STS

Features

Shaft – Minimum weldable-grade (ASTM A-595 Grade A) hot-rolled commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length longitudinal high-frequency resistance welds and are round in cross-section, having a uniform taper of approximately .11" per foot.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

Anchor Bolts – Fabricated from commercialquality, hot-rolled carbon steel with minimumyield strength of 55,000 psi. Bolts have an "L" bend on one end.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts less than 6.375" square and 4"x6.5" for all other shafts. Steel cover with attachment screws in-

cluded. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Base Cover – Full-base cover standard.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

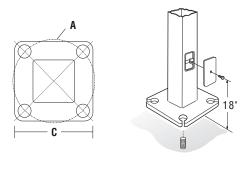
NOTES:

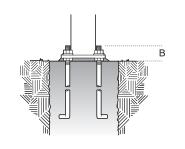
- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ \text{Bolt lengths described are normal. Actual bolt lengths may vary.}$
- Direct burial option available, consult factory.
- Galvanized anchor bolts available, consult factory.
- $\bullet \ Consult factory if product must meet "Buy America" specifications.$

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole	Wall								Bolt	Bolt	Approx
Catalog	mount.	shaft size	thick.		80	Max.	90	Max.	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	Gauge	mph	wt.	mph	wt.	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
STS 20 5-2B	20	5.25 x 3.05 x 20	0.125	11	18.0	452	13.8	345	10.7	268	10-3/4	1 x 36 x 4	155
STS 20 5-5F	20	5.50 x 3.30 x 20	0.188	7	30.5	764	24.0	602	19.0	477	11	1 x 36 x 4	235
STS 25 6-0B	25	6.00 x 3.25 x 25	0.125	11	16.8	422	12.6	315	9.5	238	12	1 x 36 x 4	205
STS 25 6-4F	25	6.41 x 3.66 x 25	0.188	7	28.5	713	22.5	563	18.2	455	12-1/2	1 x 36 x 4	310
STS 30 6-4B	30	6.41 x 3.11 x 30	0.125	11	13.6	340	9.8	245	7.0	175	12-1/2	1 x 36 x 4	260
STS 30 6-4F	30	6.41 x 3.11 x 30	0.188	7	23.6	590	17.9	448	13.7	343	12-1/2	1 x 36 x 4	375
STS 35 6-8B	35	6.81 x 2.96 x 35	0.125	11	10.7	269	7.3	184	4.8	120	13	1 x 36 x 4	305
STS 35 7-1F	35	7.13 x 3.28 x 35	0.188	7	23.4	585	17.4	435	13.0	325	13-1/2	1 x 36 x 4	475
STS 39 7-1B	39	7.18 x 2.92 x 39	0.125	11	8.6	215	5.4	135	3.0	75	13-1/2	1 x 36 x 4	345
STS 39 7-1F	39	7.13 x 2.87 x 39	0.188	7	19.3	483	14.2	355	10.4	260	13-1/2	1 x 36 x 4	500
STS 45 7-8F	45	7.88 x 2.93 x 45	0.188	7	16.0	400	11.1	278	7.4	187	14-1/2	1 x 36 x 4	620
STS 45 8-7F	45	8.75 x 3.80 x 45	0.188	7	23.5	588	16.6	415	11.4	287	15-3/4	1-1/4 x 42 x 6	730
STS 50 8-8F	50	8.81 x 3.31 x 50	0.188	7	19.4	485	13.2	332	8.7	218	16	1-1/4 x42 x 6	780





		Pole	Data		
Shaft	Bolt	Bolt	Base		
base	circle	projection	square	Anchor bolt	Template
size	Α	В	C	description	number
5.2" B	10-3/4"	3-1/2"-4-1/4"	10-3/4"	AB36-0	PJ50095
5.5" F	11"	3-3/4"-4-1/2"	11"	AB36-0	PJ50096
6.0" B	12"	3-1/2"-4-1/4"	11-1/2"	AB36-0	PJ50097
6.4" F	12-1/2"	4"-4-3/4"	11-7/8"	AB36-0	PJ50098
6.4" B	12-1/2"	3-1/2"-4-1/4"	11-7/8"	AB36-0	PJ50099
6.8" B	13"	3-1/2"-4-1/4"	12-1/4"	AB36-0	PJ50101
7.1" F	13-1/2"	4-1/4"-5"	12-5/8"	AB36-0	PJ50102
7.1" B	13-1/2"	3-1/2"-4-1/4"	12-5/8"	AB36-0	PJ50103
7.8" F	14-1/2"	4"-4-3/4"	13-3/8"	AB36-0	PJ50105
8.7" F	15-3/4"	4-3/4"-5-1/2"	14-1/4"	AB42-0	PJ50106
8.8" F	16"	4-1/2"-5-1/4"	15-1/2"	AB42-0	PJ50107



RTS

Features

Shaft – Minimum weldable-grade (ASTM A-595 Grade A), hot-rolled, commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length, longitudinal, high-frequency resistance welds. Round in cross-section, having uniform taper of approximately .14" per foot.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36.

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts

less than 6.25" base diameter and 4"x6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for 1/2"-13 UNC ground bolt and nut (provided by others).

Anchor Bolts – Fabricated from commercialquality hot-rolled carbon steel with minimum yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover standard.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole	Wall								Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.		80	Max.	90	Max.	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	Gauge	mph	wt.	mph	wt.	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
RTS 20 5-9B	20	5.9 x 3.1 x 20	0.125	11	19.3	482	15.1	377	12.2	305	9.0	1 x 36 x 4	140
RTS 20 6-5B	20	6.5 x 3.7 x 20	0.125	11	24.2	605	19.3	482	15.6	390	9.5	1 x 36 x 4	160
RTS 25 5-9B	25	5.9 x 2.4 x 25	0.125	11	12.5	312	9.9	247	8	200	9.0	1 x 36 x 4	155
RTS 25 7-0B	25	7.0 x 3.5 x 25	0.125	11	20.3	507	16.2	405	13.1	327	10.0	1 x 36 x 4	200
RTS 25 7-0F	25	7.0 x 3.5 x 25	0.188	7	28.5	713	22.5	563	18.2	455	10.0	1 x 36 x 4	280
RTS 30 6-6B	30	6.6 x 2.4 x 30	0.125	11	11.7	292	9.3	232	7.5	187	9.5	1 x 36 x 4	200
RTS 30 8-0B	30	8.0 x 3.8 x 30	0.125	11	18.9	473	14.9	373	12	300	11.0	1 x 36 x 4	265
RTS 30 8-0F	30	8.0 x 3.8 x 30	0.188	7	27.5	550	21.6	542	17.5	439	11.0	1-1/4 x 42 x 6	380
RTS 35 7-3B	35	7.3 x 2.4 x 35	0.125	11	11.2	280	8.9	222	7.1	177	10.5	1 x 36 x 4	250
RTS 35 8-5B	35	8.5 x 3.6 x 35	0.125	11	18.9	472	15.1	377	12.2	305	11.5	1 x 36 x 4	315
RTS 35 9-5B	35	9.5 x 4.6 x 35	0.125	11	23.2	580	18.2	455	14.5	363	13.0	1 x 36 x 4	370
RTS 39 7-8B	39	7.8 x 2.4 x 39	0.125	11	10.7	267	8.5	212	6.6	165	11.0	1 x 36 x 4	285
RTS 39 9-0B	39	9.0 x 3.6 x 39	0.125	11	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	355
RTS 39 9-0F	39	9.0 x 3.6 x 39	0.188	7	26.1	654	20.6	517	16.7	419	12.5	1-1/4 x 42 x 6	515
RTS 45 10-0B	45	10.0 x 3.7 x 45	0.125	11	17.4	435	13.5	338	10.6	265	13.5	1 x 36 x 4	450
RTS 45 10-0F	45	10.0 x 3.7 x 45	0.188	7	25.5	639	20.2	505	16.3	409	13.5	1-1/4 x 42 x 6	650
RTS 50 10-0B	50	10.0 x 3.0 x 50	0.125	11	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	475
RTS 50 10-0F	50	10.0 x 3.0 x 50	0.188	7	20.5	512	16.5	412	13.6	340	13.5	1-1/4 x 42 x 6	680

		Pole	Data		
Shaft	Bolt	Bolt	Base	Anchor	
base	circle	projection	square	bolt	Template
size	Α	В	C	description	number
5.9" B	9"	3-1/2"-4-1/4"	10"	AB36-0	PJ50075
6.5" B	9.5"	3-1/2"-4-1/4"	10-1/2"	AB36-0	PJ50074
7.0" B	10"	3-1/2"-4-1/4"	10-7/8"	AB36-0	PJ50077
7.0" F	10"	3-3/4"-4-1/2"	10-7/8"	AB36-0	PJ50076
6.6" B	9.5"	3-1/2"-4-1/4"	10-1/2"	AB36-0	PJ50078
8.0" B	11"	3-1/2"-4-1/4"	11-1/2"	AB36-0	PJ50079
8.0" F	11"	4-1/2"-5-1/4"	11-1/2"	AB42-0	PJ50080
7.3" B	10.5"	3-1/2"-4-1/4"	11-1/4"	AB36-0	PJ50081
8.5" B	11.5"	3-3/4"-4-1/2"	12"	AB36-0	PJ50082
9.5" B	13"	3-3/4"-4-1/2"	13"	AB36-0	PJ50083
7.8" B	11"	3-3/4"-4-1/2"	11-1/2"	AB36-0	PJ50084
9.0" B	12.5"	3-3/4"-4-1/2"	12-3/8"	AB36-0	PJ50085
9.0" F	12.5"	4-1/2"-5-1/4"	12-3/8"	AB42-0	PJ50086
10.0" B	13.5"	3-3/4"-4-1/2"	14"	AB36-0	PJ50087
10.0" F	13.5"	4-1/2"-5-1/4"	14"	AB42-0	PJ50088

Ordering Information: See page 552

Note: Poles are available only in U.S.

INSTALLATION NOTES:

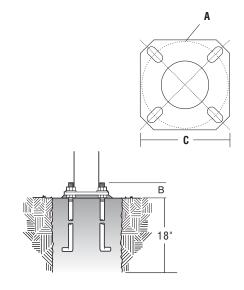
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ Bolt lengths \, described \, are \, nominal, actual \, lengths \, may \, vary.$
- $\bullet \ \, {\sf Direct burial option available, consult factory}.$
- 3-bolt bases available.
- $\bullet \ \ Galvanized \ anchor \ bolts \ available, consult factory.$
- $\bullet \ \ Consult factory if product must meet "Buy American" specifications.$
- $\bullet \ \ Stainless \, steel \, poles \, available, consult factory.$





RTSU

Features

Shaft – Weldable-grade, hot-rolled, commercial quality carbon steel tubing with a minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are one-piece construction with a full-length longitudinal high-frequency resistance weld. Round in cross-section having a uniform taper of approximately .14" per foot.

Arm – Body is 2-3/8" O.D. (2" NPS) galvanized stell tube (sch. 40 material, min. yield strength 36,000 psi). Welding follows AWS standards. Arms are galvanized after fabrication.

Mounting – Mounting plate is designed to be bolted to the shaft using a 1/2" steel bolt Simplex mount. Single-bolt (US4, US6, US8) or multi-bolt design (U10, U12).

Anchor Base – Fabricated from hot rolled carbon steel plate that conforms to ASTM A36.

Anchor Bolts – Fabricated from commercial quality hot-rolled carbon steel with minimum yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole.

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x 5" for

shafts less than 6.25" base diameter and 4"x 6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided.

Finish – Must specify finish.

Base Cover – Full base cover is standard.

Ordering Information: See page 552

Note: Poles are available only in U.S.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed

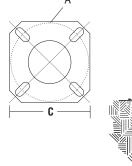
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

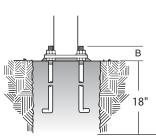
IOTEC

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Bracket, see page 578.
- Bolt lengths described are nominal, actual lengths may vary.
- Direct burial option available, consult factory.
- 3-bolt bases available.
- Galvanized anchor bolts available, consult factory.
- Consult factory if product must meet "Buy American" specifications.
- Stainless steel poles available, consult factory.

Technical Information

		Nom.	Mtg. arm	Pole shaft	Wall	(per arm) EPA ft ²	Bolt				
		mount.	length	size	thick.	w/1.3 gust	max. wt.	circle	Bolt size	Appro	x. ship wt.
Catalog number		(ft.)	(ft.)	(in. x in. x ft.)	(in.)	up to 100 mph	(lbs.)	(in.)	(in. x in. x in.)		(lbs)
Single arms	Double arms									Single arms	Double arms
RTSU 20 5-9B SMP US4	RTSU 20 5-9B SMP 2US4	20	4'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 20 5-9B SMP US6	RTSU 20 5-9B SMP 2US6	20	6'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 20 5-9B SMP US8	RTSU 20 5-9B SMP 2US8	20	8'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 25 5-9B SMP US4	RTSU 25 5-9B SMP 2US4	25	4'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 25 5-9B SMP US6	RTSU 25 5-9B SMP 2US6	25	6'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 25 5-9B SMP US8	RTSU 25 5-9B SMP 2US8	25	8'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 30 6-6B SMP US4	RTSU 30 6-6B SMP 2US4	30	4'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 30 6-6B SMP US6	RTSU 30 6-6B SMP 2US6	30	6'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 30 6-6B SMP US8	RTSU 30 6-6B SMP 2US8	30	8'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 35 7-3B SMP US4	RTSU 35 7-3B SMP 2US4	35	4'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 35 7-3B SMP US6	RTSU 35 7-3B SMP 2US6	35	6'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 35 7-3B SMP US8	RTSU 35 7-3B SMP 2US8	35	8'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 40 9-0B SMP US4	RTSU 40 9-0B SMP 2US4	40	4'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455
RTSU 40 9-0B SMP US6	RTSU 40 9-0B SMP 2US6	40	6'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455
RTSU 40 9-0B SMP US8	RTSU 40 9-0B SMP 2US8	40	8'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455





		Pole (Data		
Shaft	Bolt	Bolt	Base	Anchor	Template
base size	circle A	projection B	square C	bolt description	number
5.9'	9.0"	3.5" - 4.25"	10.0"	AB36-0	PJ50075
6.5"	9.5"	3.5" - 4.25"	10.5"	AB36-0	PJ50074
7.0"	10.0"	3.5" - 4.25"	10-7/8"	AB36-0	PJ50077
7.3"	10.5"	3.5" - 4.25"	11.25"	AB36-0	PJ50133
7.5"	10.5"	3.5" - 4.25"	11.25"	AB36-0	PJ50133
8.0"	11.0"	3.5" - 4.25"	11.5"	AB36-0	PJ50079
9.0"	12.5"	3.75" - 4.5"	12-3/8"	AB36-0	PJ50085
9.5"	13.0"	4.0"-4.5"	13.0"	1 x 36 x 4	PJ50134
10.0"	13.5"	4.0"-4.5"	14.0"	1 x 36 x 4	PJ50135
10.5"	14.0"	4.5"-5.0"	14.5"	1.25 x 42 x 6	PJ50136



STSH

Features

Shaft – Weldable-grade, hot-rolled, commercial-quality carbon steel having a guaranteed minimum yield strength of 55,000 psi and is supplied in 11-gauge (.1196") or 7-gauge (.1793") nominal thickness. Pole is one-piece construction with full-length, longitudinal, high-frequency, electric-resistance weld. Shaft is square in cross section having flat sides, radiused corners, and uniform taper of approximately 0.11 inches per foot of length (4-inch square poles are not tapered).

Hinge – The hinge includes a stainless steel hinge pin. A flexible wiring guide is provided,

passing through the hinge area for wiring protection. Hinge is external.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

Anchor Bolts – Fabricated from commercialquality, hot-rolled carbon steel with minimumyield strength of 55,000 psi. Bolts have an "L" bend on one end.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-3 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3" x 5" for

shafts less than 6.375" square and 4" x 6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover is provided.

Technical Information

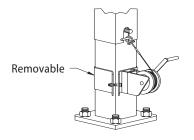
EPA (ft2) with 1.3 gust

	Nom.	Pole	Wall								Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.		80	Max.	90	Max.	100	Max.	circle	size	ship
number	ht. (ft.)	(in.xin.xft.)	(in.)	Gauge	mph	wt.	mph	wt.	mph	wt.	(in.)	(in.xin.xin.)	wt. (lbs)
STSH 20 4F	20	4x4x20	0.188	7	11.6	217	8.5	217	6.2	217	8-1/2-10	3/4x18x3	300
STSH 25 4B	25	4x4x25	0.125	11	7.1	160	4.8	160	3.1	160	8-1/2-10	3/4x18x3	370
STSH 25 6-4B	25	6.41x3.63x25	0.125	11	18.0	254	13.0	254	9.3	254	12-1/2	1x36x4	355
STSH 30 4F	30	4x4x30	0.188	7	4.0	120	2.1	120	0.8	120	8-1/2-10	3/4x18x3	435
STSH 30 6-4B	30	6.41x3.08x30	0.125	11	12.5	230	8.3	230	5.1	230	12-1/2	1x36x4	440
STSH 35 7-1B	35	7.18x2.88x35	0.125	11	7.1	160	3.2	160	_	_	13-1/2	1x36x4	540
STSH 35 7-1F	35	7.13x2.87x35	0.188	7	22.0	155	16.9	155	12.1	155	13-1/2	1x36x4	700
STSH 39 7-1F	39	7.13x2.87x39	0.188	7	19.5	110	13.5	110	9.2	110	13-1/2	1x36x4	740

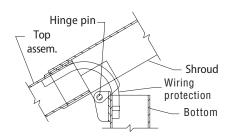
		Pole Da	ıta		
Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt description	Template number
4.0" F 6.4" B 7.1" F 7.1" B	8-1/2"-10" 12-1/2" 13-1/2" 13-1/2"	3-1/2"-4-1/4" 3-3/4"-4-1/2" 4"-4-3/4" 3-1/2"-4-1/4"	9-3/4" 11-7/8" 12-5/8" 12-5/8"	AB18-0 AB36-0 AB36-0 AB36-0	PJ50091 PJ50092 PJ50093 PJ50094

		Winch Ordering	
Family	Winch	Shaft size	Order nomenclature
STSH	WCH	4F	STSHWCH 4F
		6-4B	STSHWCH 6-4B
		7-1B	STSHWCH 7-1B
		7-1F	STSHWCH 7-1F

Winch detail (accessory)



External hinge detail



www.lithonia.com keyword: STSH

Ordering Information: See page 552

Note: Poles are available only in U.S.

INSTALLATION NOTES:

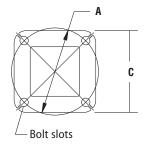
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

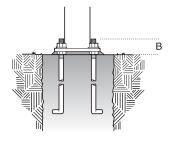
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ Bolt lengths described are nominal. Actual bolt lengths may vary.$
- $\bullet \ \ Pole \ lengths \ cannot \ be \ modified.$
- $\bullet \ \ Galvanized \ Anchor Bolts \ available. Consult factory.$
- $\bullet \ \ Consult factory if product must be ``Buy America.''$
- $\bullet \ \ \text{Hinge point is located approximately two-thirds of the way up the pole.}$







SPRTS

Features

Shaft – The cross section shall be round or 16-sided with a 4" bend radius. Each pole is a constant tapered hollow steel section and shall be up to 55 feet in length with a minimum 1-1/2 times diameter slip joint as standard. The pole shaft sections shall be high-strength low-alloy steel conforming to ASTM A572 Grade 65 or ASTM A595 Grade A. The plate shall be single thickness – no laminations.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36 or ASTM A572 Grade 42.

Hand hole – An oval, reinforced hand-hole rim having a nominal dimension of 4"x6.5". Steel cover with attachment screws included. Hand hole is located 18" above base.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for 1/2" – 13 UNC ground bolt and nut (provided by others).

Anchor Bolts – Fabricated from commercialquality hot-rolled carbon steel with minimumyield strength of 55,000 PSI. Bolts have an "L" bend on one end.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

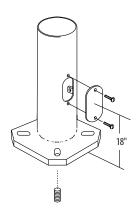
Finish – Must specify finish.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

Technical Information

	lecnnical information													
		Top	section	Botto	m section				EPA (f	t²) with 1	.3 gust			
	Nom.	Base	Wall	Base	Wall							Bolt		# of
Catalog	mount.	dia.	thick.	dia.	thick.	80	Max.	90	Max.	100	Max.	circle	Bolt size	anchor
number	ht. (ft.)	(in.)	(in.)	(in.)	(in.)	mph.	wt.	mph.	wt.	mph.	wt.	(in.)	(in. x in. x in.)	bolts
SPRTS 40 HT01	40	_	_	9	0.1193	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	4
SPRTS 40 HT02	40	_	_	9	0.1793	26.1	654	20.6	517	16.7	419	12.5	1.25 x 42 x 6	4
SPRTS 40 HT03	40	_		10	0.1793	38.6	965	30.6	765	24.6	615	13.5	1.25 x 42 x 6	4
SPRTS 50 HT01	50	_		10	0.1193	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	4
SPRTS 50 HT02	50	_	_	10	0.1793	20.5	512	16.5	412	13.6	340	13.5	1.25 x 42 x 6	4
SPRTS 50 HT03	50	_	_	11	0.1793	29.9	748	23.5	588	18.6	465	15	1.25 x 42 x 6	4
SPRTS 50 HT04	50	_		13	0.1793	50.4	1,260	39.7	992	31.4	785	17	1.50 x 54 x 6	4
SPRTS 50 HT05	50	_	_	13	0.2391	69.2	1,730	55.0	1,375	44.2	1,105	17.5	1.75 x 84 x 6	4
SPRTS 60 HT01	60	5	0.1196	11.5	0.1793	20.0	600	16.0	480	13.0	390	16	1.25 x 42 x 6	4
SPRTS 60 HT02	60	6.5	0.1196	13	0.1793	36.0	1,080	29.0	870	22.0	660	17	1.25 x 42 x 6	6
SPRTS 60 HT03	60	6.6	0.1793	13	0.2391	49.0	1,470	40.0	1,200	32.0	960	17	1.50 x 54 x 6	6
SPRTS 60 HT04	60	12	0.1793	15.87	0.1875	78.0	2,340	62.0	1,860	50.0	1,500	21	1.50 x 54 x 6	6
SPRTS 70 HT01	70	6.6	0.1793	13	0.1793	20.6	515	16.7	417	13.7	342	17	1.50 x 54 x 6	4
SPRTS 70 HT02	70	6.6	0.1793	13	0.2391	23.8	595	19.3	482	15.9	397	17.5	1.75 x 84 x 6	4
SPRTS 70 HT03	70	12	0.1793	14.57	0.1875	39.0	1,170	30.0	900	23.0	690	19	1.25 x 42 x 6	6
SPRTS 70 HT04	70	12	0.1793	15.87	0.1875	52.0	1,560	41.0	1,230	33.0	990	21	1.50 x 54 x 6	6
SPRTS 70 HT05	70	12	0.1793	16.82	0.1875	65.0	1,950	53.0	1,590	42.0	1,260	22.75	1.50 x 54 x 6	6
SPRTS 80 HT01	80	12	0.1793	15.87	0.1875	37.0	1,110	29.0	870	23.0	690	21	1.50 x 54 x 6	6
SPRTS 80 HT02	80	12	0.1793	16.82	0.1875	45.0	1,350	36.0	1,080	28.0	840	22.75	1.50 x 54 x 6	6
SPRTS 80 HT03	80	13	0.1875	17.53	0.2092	58.0	1,740	46.0	1,380	35.0	1,050	23	1.50 x 54 x 6	6
SPRTS 80 HT04	80	12	0.1793	18.7	0.1875	70.0	2,100	56.0	1,680	44.0	1,320	23	1.50 x 54 x 6	8



NOTES:

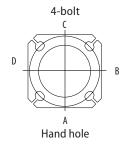
- Bolt lengths descibed are normal. Actual bolt lengths may vary.
- Galvanized anchor bolts available. Consult factory.
- $\bullet \ Consult factory if product must meet "Buy America" specifications.$
- $\bullet \ \ Direct burial \ option \ available, consult factory.$

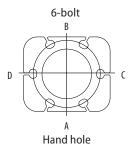
INSTALLATION NOTES:

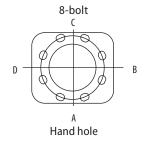
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.









www.lithonia.com, keyword: SPRTS

Angle Iron Crossarms for Steel Poles

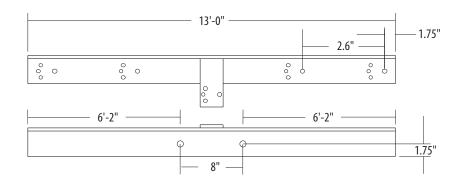
Catalog	Arm EPA	Weight
number	(sq. ft.)	(lbs.)
ACR2	1.98	34.0
ACR3	3.12	54.0
ACR4	4.53	78.0
ACR5	5.95	103.0
ACR6	7.37	127.0

NOTE: Angle iron crossarms can be used with other poles if ordered with the pole.

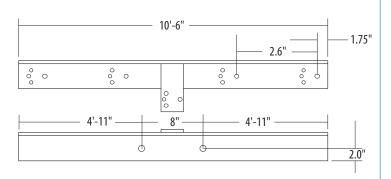
Angle Iron Crossarms for Steel Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

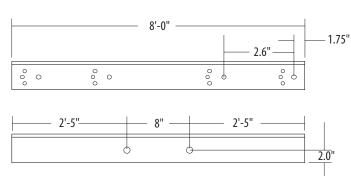
ACR6, 6-Fixture Angle Arm



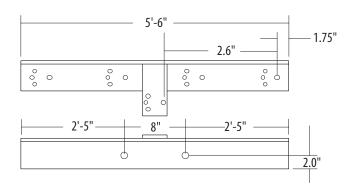
ACR5, 5-Fixture Angle Arm



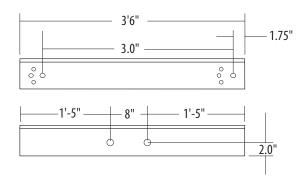
ACR4, 4-Fixture Angle Arm



ACR3, 3-Fixture Angle Arm



ACR2, 2-Fixture Angle Arm





Crossarms for SPRTS Sportslighting Poles

Tubular Crossarms for Steel Poles

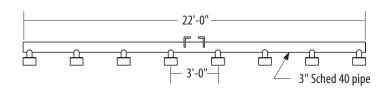
Catalog	Arm EPA	Weight
number	(sq. ft.)	(lbs.)
CR2	1.28	44.0
CR3	2.45	65.0
CR4	3.21	98.0
CR5	4.17	116.0
CR6	5.13	150.0
CR7	6.10	176.0
CR8	7.06	271.0

 $NOTE: Tubular \, crosswarms \, can \, be \, used \, with \, other \, poles \, if \, ordered \, with \, the \, pole.$

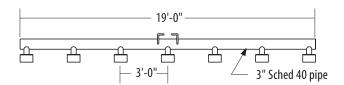
Tubular Crossarms for Steel Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (**EPA**).

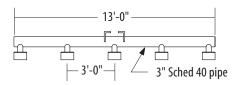
CR8, 8-Fixture Crossarm



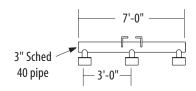
CR7, 7-Fixture Crossarm



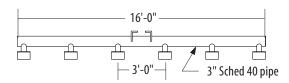
CR5, 5-Fixture Crossarm



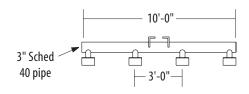
CR3, 3-Fixture Crossarm



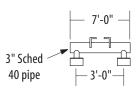
CR6, 6-Fixture Crossarm



CR4, 4-Fixture Crossarm



CR2, 2-Fixture Crossarm





Features

Shaft – Square, non-tapered shaft made from extruded 6063-T6 or 6061-T6 aluminum alloy. Shaft width is 4, 5 or 6 inches. Wall thickness is .125, .188 or .250, depending on mounting height and loading requirements.

Anchor Base – Cast from 356-T6 aluminum alloy. Anchor bolt holes are recessed and covered by aluminum caps.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 3/4" or 1" diameter steel rod having minimum-yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC grounding bolt (by others).

Hand hole – Rectangular reinforced hand hole having nominal dimensions 2" x 4" (4" sq.) or 2-1/2" x 4" (5" or 6" sq.). Hand-hole cover plate made from aluminum alloy with attachment hardware provided.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Top is provided, for drill-mount poles.

Finish – Must specify finish. Brushed aluminum, polyester paint, and anodized finishes available.

Bolt Covers – Nut covers included with each anchor base.

SSA

Technical Information

EPA (ft2) with 1.3 gust

				Lr A (It)	VVICII	.5 gust				
	Nom.	Pole	Wall					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.	80	90	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
SSA 8 4C	8	4.0 x 8.0	0.125	16.5	12.6	9.9	300	8-1/2-9-5/8	3/4 x 18 x 3	32
SSA 10 4C	10	4.0 x 10.0	0.125	11.5	8.6	6.5	230	8-1/2-9-5/8	3/4 x 18 x 3	37
SSA 12 4C	12	4.0 x 12.0	0.125	12.4	9.2	6.9	160	8-1/2-9-5/8	3/4 x 18 x 3	40
SSA 14 4C	14	4.0 x 14.0	0.125	9.3	6.7	4.8	120	8-1/2-9-5/8	3/4 x 18 x 3	50
SSA 15 4C	15	4.0 x 15.0	0.125	8.0	5.6	3.9	100	8-1/2-9-5/8	3/4 x 18 x 3	52
SSA 16 4C	16	4.0 x 16.0	0.125	6.9	4.7	3.1	90	8-1/2-9-5/8	3/4 x 18 x 3	54
SSA 16 4G	16	4.0 x 16.0	0.188	11.8	8.5	6.2	130	8-1/2-9-5/8	3/4 x 30 x 3	74
SSA 16 5G	16	5.0 x 16.0	0.188	15.0	11.1	7.5	280	10-1/2-11-1/2	3/4 x 30 x 3	83
SSA 18 4C	18	4.0 x 18.0	0.125	4.9	3.0	1.7	70	8-1/2-9-5/8	3/4 x 18 x 3	57
SSA 18 4G	18	4.0 x 18.0	0.188	9.2	6.4	4.4	100	8-1/2-9-5/8	3/4 x 30 x 3	80
SSA 18 5G	18	5.0 x 18.0	0.188	16.8	12.2	8.9	230	10-1/2-11-1/2	3/4 x 30 x 3	91
SSA 20 4C	20	4.0 x 20.0	0.125	3.3	1.7	0.5	40	8-1/2-9-5/8	3/4 x 18 x 3	62
SSA 20 4G	20	4.0 x 20.0	0.188	7.0	4.6	2.9	80	8-1/2-9-5/8	3/4 x 30 x 3	85
SSA 20 5G	20	5.0 x 20.0	0.188	13.6	9.5	6.6	180	10-1/2-11-1/2	3/4 x 30 x 3	107
SSA 20 6G	20	6.0 x 20.0	0.188	22.0	15.9	11.6	230	12-13	1 x 36 x 4	155
SSA 20 6J	20	6.0 x 20.0	0.250	30.4	22.6	17.0	300	12-13	1 x 36 x 4	202
SSA 25 5G	25	5.0 x 25.0	0.188	7.2	4.2	2.0	110	10-1/2-11-1/2	3/4 x 30 x 3	130
SSA 25 6G	25	6.0 x 25.0	0.188	13.2	8.6	5.4	180	12-13	1 x 36 x 4	180
SSA 25 6J	25	6.0 x 25.0	0.250	19.7	13.8	9.5	250	12-13	1 x 36 x 4	224
SSA 30 6G	30	6.0 x 30.0	0.188	7.0	3.4	0.8	130	12-13	1 x 36 x 4	210
SSA 30 6J	30	6.0 x 30.0	0.250	12.2	7.5	4.1	170	12-13	1 x 36 x 4	258
SSA 32 6J	32	6.0 x 32.0	0.250	9.7	5.4	2.3	160	12-13	1 x 36 x 4	272
SSA 35 6J	35	6.0 x 35.0	0.250	6.4	2.6	_	200	12-13	1 x 36 x 4	294
SSA 35 7J	35	6.0 x 35.0	0.250	7.6	3.1	_	150	14-1/8-15-1/8	1 x 36 x 4	290

			Pole Data		
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"C	8-1/2-9-5/8"	3-1/8"	9-15/16"	AB18-0	PJ50045
4"G	8-1/2-9-5/8"	3-1/8"	9-15/16"	AB30-0	PJ50045
5"	10-1/2-11-1/2"	3-1/4"	11-9/16"	AB30-0	PJ50046
6"	12"-13"	4"	12-1/4"	AB36-0	PJ50044
7"	14-1/8-15-1/8"	4-1/4"	15-1/8"	AB36-0	PJ50130

NOTES:

- Mounting arrangement: (PT) Open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory
- Consult factory if product must meet "Buy American" specifications.

Ordering Information: See page 552

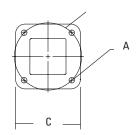
NOTE: Poles are available only in U.S.

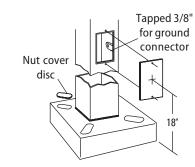
INSTALLATION NOTES:

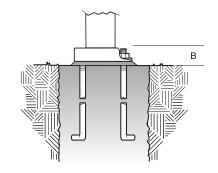
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.









SSCA



Features

Shaft – Square, cruciform, non-tapered shaft made from extruded seamless 6000 series alloy aluminum tubing. Shaft width is 4 or 6 inches. Wall thickness is .188".

Anchor Base – Cast from A356 alloy aluminum. Anchor bolt holes are recessed and are covered by tamper resistant aluminum nut cover disks.

Grounding – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC grounding bolt (by others).

Hand hole – Rectangular reinforced hand hole having nominal dimensions of 2" x 4". Hand-hole cover plate made from aluminum alloy with attachment hardware provided.

Top Cap – Top cap is provided for drill mount poles.

Finish – Must specify finish. Brushed aluminum, polyester powder paint, and anodized finishes available.

Bolt Covers – Nut covers included with each anchor base.

Ordering Information: See page 552

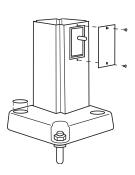
NOTE: Poles are available only in U.S.

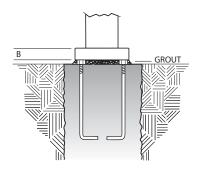
INSTALLATION NOTES:

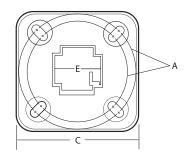
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.







Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole shaft						Approx.		
Catalog	mount.ht.	(size)	Wall thick.				Max. wt.	bolt circle	Bolt	ship wt.
number	(Ft.)	(in. x in. x ft.)	(in.)	80 mph	90 mph	100 mph	(in. x in. x in.)	(in.)	size	(lbs.)
SSCA 8 4G	8'	4.0 x 8.0	0.188	30.2	23.5	18.6	350	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 10 4G	10	4.0 x 10.0	0.188	23.5	18	14.1	260	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 12 4G	12	4.0 x 12.0	0.188	18.4	13.9	10.7	260	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 15 4G	15	4.0 x 15.0	0.188	10.6	7.7	5.6	200	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 18 4G	18	4.0 x 18.0	0.188	7.2	4.9	3.2	200	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 18 6G	18	6.0 x 18.0	0.188	21.7	15.9	11.7	260	12.0 - 13.0	1 x 36 x 4	-
SSCA 20 4G	20	4.0 x 20.0	0.188	5.8	3.6	2	100	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 20 6G	20	6.0 x 20.0	0.188	18.3	13	9.2	150	12.0 - 13.0	1 x 36 x 4	-
SSCA 25 6G	25	6.0 x 25.0	0.188	11	6.8	3.7	150	12.0 - 13.0	1 x 36 x 4	-
SSCA 30 6G	30	6.0 x 30.0	0.188	4.5	1.4	-	260	12.0 - 13.0	1 x 36 x 4	-

	Pole Data									
Shaft	Bolt	Bolt	Base	Anchor						
base	circle	Projection	Square	bolt	Template					
size	Α	В	C	description	number					
4"	8-1/2 - 9-5/8	3-1/8"	9-15/16"	AB18-0	PJ50131					
6"	12.0 - 13.0	4"	12-3/4"	AB36-0	PJ50132					

NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ \text{Bolt lengths described are nominal, actual bolt lengths may vary}.$
- Galvanized anchor bolts available. Consult factory.
- $\bullet \ Consult factory if product must meet "Buy America" specifications.$



Features

Shaft - One-piece extruded 6063-T6 aluminum alloy with T6 temper. Circumferential satinbrushed finish. 4-1/2" round straight tube is uniform in cross-section down length of shaft.

Anchor Base - Cast from A356 aluminum allov and heat treated to T6 temper. Base slipfits shaft, and they are joined together by continuous circumferential welds at both top and bottom of anchor base to provide maximum strength at area of critical stress.

Anchor Bolts - Top 12" is galvanized per ASTM A-153. Made of carbon steel bar with a minimum-yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC ground bolt (not supplied).

Hand hole - Reinforced 3"x5" hand hole is locat-

ed 18" above base, (4" poles have a 2" x 4" cover) Cover and attachment hardware furnished.

Hardware - Stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish - Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

Bolt Covers - A356 nut covers included with anchor base unless otherwise specified.

Technical Information

EPA (ft2) with 1.3 gust

				A (IL)		gast				
	Nom.	Pole	Wall					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.	80	90	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
<u> 4 Bolt Base</u>										
RSA 8 4C	8	4.0 x 8.0	0.125	11.2	8.6	6.8	125	6-1/2-8-1/4	3/4 x 18 x 3	22
RSA 10 4C	10	4.0 x 10.0	0.125	8.2	6.1	4.7	100	6-1/2-8-1/4	3/4 x 18 x 3	26
RSA 12 4C	12	4.0 x 12.0	0.125	6.0	4.3	3.2	110	6-1/2-8-1/4	3/4 x 18 x 3	30
RSA 12 4-5C	12	4.5 x 12.0	0.125	8.1	6.0	4.8	80	7-1/8-8-3/8	3/4 x 18 x 3	38
RSA 14 4C	14	4.0 x 14.0	0.125	4.1	2.8	1.9	75	6-1/2-8-1/4	3/4 x 18 x 3	35
RSA 14 4-5C	14	4.5 x 14.0	0.125	5.8	4.2	3.3	60	7-1/8-8-3/8	3/4 x 18 x 3	42
RSA 14 5C	14	5.0 x 14.0	0.125	7.8	6.0	4.7	100	7-1/2-9-1/2	3/4 x 18 x 3	39
RSA 16 4C	16	4.0 x 16.0	0.125	2.8	1.6	1.0	150	6-1/2-8-1/2	3/4 x 18 x 3	38
RSA 16 4-5C	16	4.5 x 16.0	0.125	4.2	2.8	2.1	50	7-1/8-8-3/8	3/4 x 18 x 3	46
RSA 16 4-5G	16	4.5 x 16.0	0.188	7.5	5.5	4.3	155	7-1/8-8-3/8	3/4 x 18 x 3	62
RSA 16 5C	16	5.0 x 16.0	0.125	5.9	4.4	3.4	175	7-1/2-9-1/2	3/4 x 18 x 3	46
RSA 16 5E	16	5.0 x 16.0	0.156	8.0	6.1	4.8	190	7-1/2-9-1/2	3/4 x 18 x 3	53
RSA 18 4-5G	18	4.5 x 18.0	0.188	5.7	4.0	3.1	123	7-1/8-8-3/8	3/4 x 18 x 3	68
RSA 18 5C	18	5.0 x 18.0	0.125	4.3	3.1	2.4	150	7-1/2-9-1/2	3/4 x 18 x 3	48
RSA 18 5E	18	5.0 x 18.0	0.156	6.1	4.6	3.5	175	7-1/2-9-1/2	3/4 x 18 x 3	58
RSA 18 5G	18	5.0 x 18.0	0.188	8.0	6.8	4.7	225	7-1/2-9-1/2	3/4 x 18 x 3	68
RSA 20 4-5G	20	4.5 x 20.0	0.188	4.3	2.9	2.1	95	7-1/8-8-3/8	3/4 x 18 x 3	74
RSA 20 5C	20	5.0 x 20.0	0.125	3.0	2.1	1.5	150	7-1/2-9-1/2	3/4 x 18 x 3	54
RSA 20 5E	20	5.0 x 20.0	0.156	4.7	3.4	2.6	150	7-1/2-9-1/2	3/4 x 18 x 3	68
RSA 20 5G	20	5.0 x 20.0	0.188	6.4	4.8	3.6	150	7-1/2-9-1/2	3/4 x 18 x 3	82
RSA 20 6E	20	6.0 x 20.0	0.156	9.3	7.1	5.5	175	8-3/4-10-1/4	3/4 x 30 x 3	95
RSA 25 4-5G	25	4.5 x 25.0	0.188	1.3	_	_	100	7-1/8-8-3/8	3/4 x 18 x 3	89
RSA 25 6E	25	6.0 x 25.0	0.156	5.2	3.8	2.8	150	8-3/4-10-1/4	3/4 x 30 x 3	108
RSA 25 6G	25	6.0 x 25.0	0.188	7.1	5.3	4.0	150	8-3/4-10-1/4	3/4 x 30 x 3	128
RSA 30 6G	30	6.0 x 30.0	0.188	3.5	2.4	1.6	200	8-3/4-10-1/4	3/4 x 30 x 3	146
3 Bolt Base	_	3000	0.135	- 0	4.2		7.	F 1/2 7	2/4 10 2	22
3RSA 8 3C	8 10	3.0 x 8.0	0.125	5.8 4.0	4.3 2.9	3.3 2.1	75 75	5-1/2-7	3/4 x 18 x 3	22
3RSA 10 3C	10	3.0 x 10.0	0.125 0.125	8.2	6.1	4.7	75	5-1/2-7 6-5/16-7-3/8	3/4 x 18 x 3	26 26
3RSA 10 4C 3RSA 12 3C	12	4.0 x 10.0 3.0 x 12.0	0.125	2.7	1.8	1.2	75	5-1/2-7	3/4 x 18 x 3 3/4 x 18 x 3	30
3RSA 12 4C	12	4.0 x 12.0	0.125	5.8	4.2	3.1	150	6-5/16-7-3/8	3/4 x 16 x 3	30
3RSA 12 4C	12	5.0 x 12.0	0.125	10.3	8	6.3	150	7-3/8-8-1/2	3/4 x 16 x 3	36
3RSA 14 3C	14	14.0 x 3.0	0.125	1.7	1.0	0.5	75	5-1/2-7	3/4 x 18 x 3	35
3RSA 14 4C	14	14.0 x 3.0 14.0 x 4.0	0.125	4.1	2.8	1.9	150	6-5/16-7-3/8	3/4 x 18 x 3	35
3RSA 14 4C	14	14.0 x 4.0	0.125	7.9	6.0	4.7	150	7-3/8-8-1/2	3/4 x 18 x 3	39
3RSA 16 4C	16	4.0 x 16.0	0.125	2.8	1.6	1.0	150	6-5/16-7-3/8	3/4 x 18 x 3	38
3RSA 16 5E	16	5.0 x 16.0	0.123	8.0	6.1	4.8	150	7-3/8-8-1/2	3/4 x 18 x 3	53
3RSA 18 5C	18	5.0 x 10.0 5.0 x 18.0	0.130	4.3	3.1	2.4	150	7-3/8-8-1/2	3/4 x 18 x 3	48
3RSA 20 5C	20	5.0 x 20.0	0.125	2.9	2.0	1.4	150	7-3/8-8-1/2	3/4 x 18 x 3	54
3RSA 20 5E	20	5.0 x 20.0	0.123	4.6	3.3	2.5	150	7-3/8-8-1/2	3/4 x 18 x 3	68
JUNE TO JE	20	J.0 A 20.0	0.150	7.0	ر.ر ا	2.5	150	, 3/0 0 1/2	7/ 77 10 7 3	00

Ordering Information: See page 552 NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

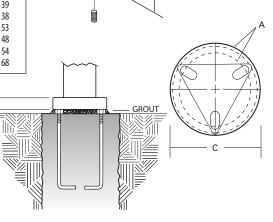
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to the contract of the contractfailure to use Lithonia Lighting factory templates.

 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

 $If poles\,are\,stored\,outside, all\,protective\,wrapping\,must\,be\,removed\,immediately$

NOTES:

- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.



			Pole Data			
	Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4 bolt base	4" 4-1/2" 5" 6"	6-1/2"-8-1/4" 7"-8-1/2" 7-1/2"-9-1/2" 8-3/4"-10-1/4'	3-1/4" 3-1/4"	8-3/4" 8-1/2" 9-1/4" 10-1/4"	AB18-0 AB18-0 AB18-0 AB30-0	PJ50057 PJ50040 PJ50058 PJ50059
3 bolt base	3" 4" 5"	51/2"-7" 6-5/16"-7-3/8' 7-3/8"-8-1/2"		7-1/2" 8-7/8" 10-1/4"	AB18-0 AB18-0 AB18-0	PJ50125 PJ50126 PJ50127

www.lithonia.com, keyword: RSA



RTA

Features

Shaft – The shaft is spun tapered from seamless 6063 alloy aluminum tubing and is heat-treated to produce a T6 temper. The shaft is cone tapered to the butt diameter.

Anchor Base – Cast from A356 alloy aluminum, the anchor base is heat-treated to a T6 condition. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of steel rod having a minimum yield strength of 55,000 PSI.

Grounding – A ground lug located immediately inside the hand hole is tapped round bolt (by others).

Hand hole – A nominal 3"x5" or 4"x6" reinforced flushed covered hand hole is centered 18" above the base.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

Bolt Covers – A356 nut covers shall be included with each anchor base unless otherwise specified.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

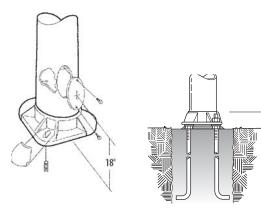
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

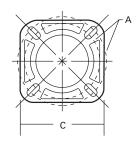
Do not erect poles without having fixtures installed.

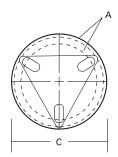
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ Bolt lengths described are nominal, actual bolt lengths may vary.$
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory
- $\bullet \ \ Consult factory if product must meet "Buy America" specifications.$







Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole	Wall							Approx
Catalog	mount	shaft size	thickness	80	90	100	Max.	Bolt circle	Bolt size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
<u> 4 Bolt Base</u>										
RTA 20 5C	20	5 x 3 x 19′8″	0.125	3.9	2.5	1.6	100	7-1/2-9-1/2	3/4 x 18 x 3	62
RTA 20 5G	20	5 x 3 x 19′8″	0.188	7.4	5.2	3.8	100	7-1/2-9-1/2	3/4 x 18 x 3	72
RTA 20 6G	20	6 x 4 x 19′8″	0.188	12.2	9.2	7.2	214	9–10	3/4 x 30 x 3	107
RTA 20 7E	20	7 x 4 x 19′8″	0.156	15.0	11.4	9.0	256	9-7/8-11-1/4	1 x 36 x 4	103
RTA 25 6E	25	6 x 4 x 24′ 8″	0.156	5.3	3.6	2.6	114	9–10	3/4 x 30 x 3	106
RTA 25 7E	25	7 x 4 x 24′8″	0.156	9.5	7.0	5.4	162	9-7/8-11-1/4	1 x 36 x 4	120
RTA 25 8E	25	8 x 4.5 x 24′ 8″	0.156	14.2	10.9	8.5	220	11–12	1 x 36 x 4	130
RTA 25 8G	25	8 x 4.5 x 24′ 8″	0.188	18.0	13.8	10.9	261	11–12	1 x 36 x 4	153
RTA 30 7E	30	7 x 4 x 29'8"	0.156	5.5	3.8	2.7	111	9-7/8-11-1/4	1 x 36 x 4	135
RTA 30 8E	30	8 x 4.5 x 29'8"	0.156	9.4	7.0	5.3	151	11–12	1 x 36 x 4	150
RTA 30 8G	30	8 x 4.5 x 29'8"	0.188	12.4	9.4	7.3	179	11–12	1 x 36 x 4	175
RTA 30 10G	30	10 x 6 x 29'8"	0.188	23.8	18.3	14.3	377	14-1/4-16-1/4	1 x 40 x 4	235
RTA 35 8E	35	8 x 4.5 x 34'8"	0.156	5.8	4.1	2.9	119	11–12	1 x 36 x 4	185
RTA 35 8G	35	8 x 4.5 x 34'8"	0.188	8.3	6.0	4.5	141	11–12	1 x 36 x 4	220
RTA 35 8J	35	8 x 4.5 x 34'8"	0.250	12.9	9.7	7.5	183	11–12	1 x 36 x 4	251
RTA 35 10G	35	10 x 6 x 34'8"	0.188	17.9	13.6	10.4	295	14-1/4-16-1/4	1 x 40 x 4	268
RTA 39 8G	39	8 x 4.5 x 38'8"	0.188	5.6	3.9	2.7	122	11–12	1 x 36 x 4	250
RTA 39 8J	39	8 x 4.5 x 38'8"	0.250	9.7	7.1	5.4	158	11–12	1 x 36 x 4	280
RTA 39 10G	39	10 x 6 x 38'8"	0.188	14.2	10.5	7.8	253	14-1/4-16-1/4	1 x 40 x 4	295
RTA 39 10J	39	10 x 6 x 38'8"	0.250	20.4	15.5	11.9	300	14-1/2-16	1-1/4 x 48 x 5	373
3 Bolt Base										
3RTA 8 4C	8	4.0 x 8.0	0.125	12.1	9.3	7.3	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 10 4C	10	4.0 x 10.0	0.125	8.8	6.7	5.2	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 12 4C	12	4.0 x 12.0	0.125	6.6	4.8	3.6	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 14 4C	14	4.0 x 14.0	0.125	4.9	3.4	2.4	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 16 4C	16	4.0 x 16.0	0.125	3.5	2.3	1.5	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 16 5C	16	5.0 x 16.0	0.125	6.9	5.0	3.8	75	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 18 5C	18	5.0 x 18.0	0.125	5.0	3.5	2.5	150	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 18 5E	18	5.0 x 18.0	0.156	7.0	5.0	3.7	150	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 20 5C	20	5.0 x 20.0	0.125	3.8	2.5	1.6	150	7-1/2-8-1/2	3/4 x 18 x 3	62
3RTA 20 5E	20	5.0 x 20.0	0.156	5.5	3.8	2.6	150	7-1/2-8-1/2	3/4 x 18 x 3	70

			Pole Data			
	Shaft	Bolt	Bolt	Base		
	base	circle	projection	square	Anchor bolt	Template
	size	Α	В	C	description	number
4 Bolt Base	5"	7-1/2"-9-1/2"	3-1/4"	9-1/4"	AB18-0	PJ50032
	6"	9"-10"	3-1/2"	10"	AB30-0	PJ50033
	7"	9-7/8"-11-1/4"	4-1/8"	10-1/2"	AB36-0	PJ50034
	8"	11-12"	4-1/4"	11-1/2"	AB36-0	PJ50035
	10"G	14-1/4"-16-1/4"	4-1/2"	14-1/2"	AB40-0	PJ50036
	10″J	14-1/2"-16"	5"	14-1/2"	AB48-0	PJ50063
3 Bolt Base	4"	6-1/2"-7-1/4"	3-1/4"	8-7/8"	AB18-0	PJ50128
	5"	7-1/2"-8-1/2"	3-1/4"	10-1/4"	AB18-0	PJ50129



RTAU

Features

Shaft – The shaft is spun tapered from seamless 6063 alloy aluminum tubing and is heat-treated to produce a T6 temper. The shaft is cone tapered to the butt diameter.

Arm – Body of the mounting arm is tapered aluminum alloy 6063-T6 tube with 2-3/8" OD (2" NPS) pipe size at luminaire end. The pole end of the arm is welded to an aluminum alloy 6063-T6 mounting plate.

Mounting – The mounting plate is designed to be bolted to the shaft using four 1/2" stainless

steel bolts, nuts and washers. A grommet is provided for the 1-1/4" diameter wiring hole between the pole shaft and the bracket arm.

Anchor Base – Cast from A356 alloy aluminum, the anchor base is heat-treated to a T6 condition. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of steel rod having a minimum yield strength of 55,000 PSI.

Grounding – A ground lug located immediately inside the hand hole is tapped for 3/8"-16 UNC

grounding bolt (by others).

Hand hole – A nominal 3"x5" or 4"x6" reinforced flushed covered hand hole is centered 18" above the base

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Top cap is provided.

Finish – Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

Bolt Covers – A356 nut covers shall be included with each anchor base unless otherwise specified.

Technical Information

Ordering Information: See page 552 NOTE: Poles are available only in U.S.

		Nom.	Mtg. arm	Pole shaft	Wall	(per arn	n) EPA ft²		Bolt			
		mount.	length	size	thick.	w/1.	3 gust	Max. wt.	circle	Bolt size	Approx	c. ship wt.
Catalog	number	(ft.)	(ft.)	(in. x in.)	(in.)	up to 1	00 mph	(lbs.)	(in.)	(in. x in. x in.)	(lbs.)
Single arms	Double arms					Single arms Double arms					Single arms	Double arms
RTAU 20 6E BMA US4	RTAU 20 6E BMA 2US4	20	4'	4" x 6"	0.156"	2	1.5	80	9-10"	3/4 x 30 x 3	153	205
RTAU 20 6E BMA US6	RTAU 20 6E BMA 2US6	20'	6'	4" x 6"	0.156"	2	0.9	80	9-10"	3/4 x 30 x 3	153	205
RTAU 20 6E BMA US8	RTAU 20 6E BMA 2US8	20'	8'	4" x 6"	0.156"	1.7	n/a	80	9-10"	3/4 x 30 x 3	153	205
RTAU 25 7E BMA US4	RTAU 25 7E BMA 2US4	25'	4'	4" x 7"	0.156"	2	1.3	80	10-11"	1 x 36 x 4	170	220
RTAU 25 7E BMA US6	RTAU 25 7E BMA 2US6	25'	6'	4" x 7"	0.156"	2	0.8	80	10-11"	1 x 36 x 4	170	220
RTAU 25 7E BMA US8	RTAU 25 7E BMA 2US8	25"	8'	4" x 7"	0.156"	1.7	n/a	80	10-11"	1 x 36 x 4	170	220
RTAU 30 7E BMA US4	RTAU 30 7E BMA 2US4	30'	4'	4" x 7"	0.156"	1.5	1.3	80	10-11"	1 x 36 x 4	185	235
RTAU 30 7E BMA US6	RTAU 30 7E BMA 2US6	30'	6'	4" x 7"	0.156"	1.1	0.8	80	10-11"	1 x 36 x 4	185	235
RTAU 30 7E BMA US8	RTAU 30 7E BMA 2US8	30'	8'	4" x 7"	0.156"	n/a	0.9	80	10-11"	1 x 36 x 4	185	235
RTAU 35 8E BMA US4	N/A	35'	4'	4.5" x 8"	0.156"	1.7	n/a	80	11-12"	1 x 36 x 4	235	n/a
RTAU 35 8E BMA US6	N/A	35'	6'	4.5" x 8"	0.156"	1.3	n/a	80	11-12"	1 x 36 x 4	235	n/a
RTAU 35 8E BMA US8	N/A	35'	8'	4.5" x 8"	0.156"	n/a	n/a	80	11-12"	1 x 36 x 4	235	n/a
N/A	RTAU 35 8J BMA 2US4	35'	4'	4.5" x 8"	0.250"	n/a	2	80	11-12"	1 x 36 x 4	n/a	350
N/A	RTAU 35 8J BMA 2US6	35'	6'	4.5" x 8"	0.250"	n/a	2	80	11-12"	1 x 36 x 4	n/a	350
N/A	RTAU 35 8J BMA 2US8	35'	8'	4.5" x 8"	0.250"	n/a	1.1	80	11-12"	1 x 36 x 4	n/a	350
RTAU 40 8G BMA US4	N/A	40'	4'	4.5" x 8"	0.188"	1.6	n/a	80	11-12"	1 x 36 x 4	300	n/a
RTAU 40 8G BMA US6	N/A	40'	6'	4.5" x 8"	0.188"	1.1	n/a	80	11-12"	1 x 36 x 4	300	n/a
RTAU 40 8G BMA US8	N/A	40'	8'	4.5" x 8"	0.188"	n/a	n/a	80	11-12"	1 x 36 x 4	300	n/a
N/A	RTAU 40 8J BMA 2US4	40'	4'	4.5" x 8"	0.250"	n/a	1.4	80	11-12"	1 x 36 x 4	n/a	380
N/A	RTAU 40 8J BMA 2US6	40'	6'	4.5" x 8"	0.250"	n/a	0.8	80	11-12"	1 x 36 x 4	n/a	380
N/A	RTAU 40 8J BMA 2US8	40'	8'	4.5" x 8"	0.250"	n/a	n/a	80	11-12"	1 x 36 x 4	n/a	380

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

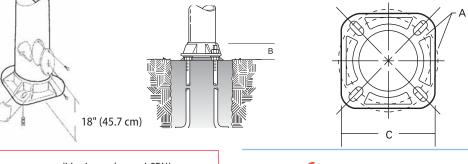
 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ Bolt lengths described are nominal, actual bolt lengths may vary.$
- $\bullet \ \ Direct burial option available. Consult factory.$
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.

Pole Data Shaft Bolt Bolt Base hase circle projection square Anchor bolt Template size Α description 6" 9"-10" 3-1/2' 10" AB30-0 PJ50033 10-1/2" 10"-11' 4-1/8" AB36-0 P150034 7" 8" 11-12" 4-1/4" 11-1/2" AB36-0 PJ50035







RSAH

Features

Shaft – One-piece extruded 6063 aluminum alloy with a T6 temper. Circumferential satin-brushed finish. The round, straight tube is uniform in cross-section down the length of the shaft.

Hinged Anchor Base – Cast from A356 aluminum alloy, the anchor base is heat-treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored sections of the hinged base are joined by a 3/4" diameter solid aluminum pivot rod. The

tilting section of the hinged base is held in a vertical position by three 1/2"-13 x 2-1/2" stainless steel hex head bolts that attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of carbon steel bar having a minimum-yield strength of 55,000 PSI.

Hand hole – Available as an option, and located 90° to the right of the hinge.

Hardware - Stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish. Brushed aluminum, polyester powder paint, and anodized finishes available.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

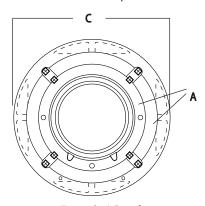
INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

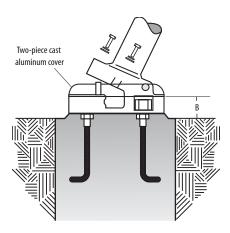
 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

3/4" Solid aluminum pivot rod



Tapped 3/8"-16 for ground connector



Technical Information

EPA (ft2) with 1.3 aust

Lividity With 115 gast										
	Nom.	Pole	Wall					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.	80	90	100	max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs)
RSAH 10 4C	10	4 x 4 x 10	0.125	8.2	6.1	4.7	100	8-1/2-10	3/4 x 18 x 3	43
RSAH 14 4C	14	4 x 4 x 14	0.125	4.4	3.0	2.1	100	8-1/2-10	3/4 x 18 x 3	50
RSAH 14 5E	14	5 x 5 x 14	0.156	10.6	8.2	6.5	100	8-1/2-10	3/4 x 18 x 3	66
RSAH 16 4C	16	4 x 4 x 16	0.125	3.1	1.9	1.2	100	8-1/2-10	3/4 x 18 x 3	5
RSAH 16 5C	16	5 x 5 x 16	0.125	6.2	4.7	3.6	100	8-1/2-10	3/4 x 18 x 3	60
RSAH 16 6E	16	6 x 6 x 16	0.156	13.8	10.7	8.5	100	8-1/2-10	3/4 x 30 x 3	88
RSAH 18 5C	18	5 x 5 x 18	0.125	4.5	3.3	2.5	130	8-1/2-10	3/4 x 18 x 3	65
RSAH 18 5G	18	5 x 5 x 18	0.188	8.2	6.2	4.9	130	8-1/2-10	3/4 x 18 x 3	90
RSAH 20 5C	20	5 x 5 x 20	0.125	3.2	2.2	1.6	130	8-1/2-10	3/4 x 18 x 3	69
RSAH 20 5G	20	5 x 5 x 20	0.188	6.4	4.8	3.7	130	8-1/2-10	3/4 x 18 x 3	97
RSAH 20 6G	20	6 x 6 x 20	0.188	11.7	9.0	7.1	130	8-1/2-10	3/4 x 30 x 3	110

		Po	ole Data		
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"	8-1/2"-10"	3-1/2"	12-5/8"	AB18-0	PJ50060
5"	8-1/2"-10"	3-1/2"	12-5/8"	AB18-0	PJ50061
6"	8-1/2"-10"	3-1/2"	12-5/8"	AB30-0	PJ50062

NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ \text{Bolt lengths described are normal. Actual bolt lengths may vary.}$
- Pole hinges at base.
- Galvanized anchor bolts available. Consult factory.
- $\bullet \ Consult factory if product must meet "Buy America" specifications.$



SSAH

Features

Shaft – Square, non-tapered shaft made from extruded 6063-T6 aluminum alloy. Shaft width is 4 or 5 inches. Wall thickness is .125 or .188 depending on mounting height and loading requirements.

Hinged Anchor Base – Cast from A356 aluminum alloy and heat treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored sections of the hinged base is held in a vertical position by three

1/2"-13 x 2-1/2" stainless steel hex head bolts which attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 3/4" diameter steel rod having minimum-yield strength of 55,000 psi.

Hand hole – Available as an option, and located 90° to the right of the hinge.

Hardware – All screws, nuts and bolts are made of stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish. Brushed aluminum, polyester powder paint and anodized finishes available.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole	Wall					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	thick.	80	90	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	(in.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
SSAH 10 4C	10	4 x 4 x 10	0.125	13.1	9.9	7.5	100	8-1/2-10	3/4 x 18 x 3	48
SSAH 12 4C	12	4 x 4 x 12	0.125	9.6	7.0	5.1	100	8-1/2-10	3/4 x 18 x 3	53
SSAH 14 4C	14	4 x 4 x 14	0.125	7.0	4.9	3.3	100	8-1/2-10	3/4 x 18 x 3	57
SSAH 15 4C	15	4 x 4 x 15	0.125	6.0	4.0	2.6	100	8-1/2-10	3/4 x 18 x 3	60
SSAH 16 4C	16	4 x 4 x 16	0.125	5.0	3.2	1.9	100	8-1/2-10	3/4 x 18 x 3	62
SSAH 16 4G	16	4 x 4 x 16	0.188	8.9	6.2	4.3	150	8-1/2-10	3/4 x 30 x 3	86
SSAH 18 4C	18	4 x 4 x 18	0.125	3.4	1.8	0.7	100	8-1/2-10	3/4 x 18 x 3	67
SSAH 18 4G	18	4 x 4 x 18	0.188	6.8	4.5	2.9	100	8-1/2-10	3/4 x 30 x 3	93
SSAH 18 5G	18	5 x 5 x 18	0.188	12.6	8.8	6.1	150	9-5/16-10	3/4 x 30 x 3	108
SSAH 20 4G	20	4 x 4 x 20	0.188	5.0	3.0	1.6	150	8-1/2-10	3/4 x 30 x 3	100
SSAH 20 5G	20	5 x 5 x 20	0.188	9.9	6.6	4.2	175	9-5/16-10	3/4 x 30 x 3	117

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed

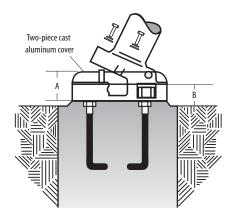
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

		F	Pole Data		
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"C	8-1/2-10"	3-1/2"	11-11/16"	AB18-0	PJ50055
4"G	8-1/2-10"	3-1/2"	11-11/16"	AB30-0	PJ50055
5"	9-5/16-10"	3-1/2"	11-11/16"	AB30-0	PJ50056

NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- $\bullet \ \ Bolt lengths \, described \, are \, nominal. \, Actual \, bolt \, lengths \, may \, vary. \,$
- Pole hinges at base.
- Galvanized anchor bolts available. Consult factory.
- $\bullet \ \ Consult factory if product must meet "Buy America" specifications.$

Hinge direction "A" side of pole





RTF

Features

Shaft – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

Anchor Base - Heavy-duty, A356-T6 aluminum

base casting which is permanently bonded to the outside of the fiberglass shaft.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, 2-1/2"x5" hand hole secured with a vandal-resistant, stainless steel 1/2" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

 $Top\, Cap\, - Top\, cap\, provided\, with\, all\, drill-mount\, poles.$

Finish – Must specify color.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

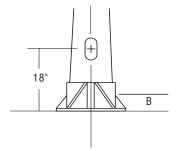
INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact withfoundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

8 + 8 C C



Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	80	90	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	mph	mph	mph	wt.	(in.)	(in. x in. x in.)	(lbs.)
RTF 10 5-4X	10	5.4 x 4.1 x 10	19.0	14.6	11.4	150	8	5/ ₈ x 21 x 3	23
RTF 12 5-6X	12	5.6 x 4.1 x 12	16.0	12.1	9.3	150	81/2	5/8 x 21 x 3	28
RTF 14 5-9X	14	5.9 x 4.1 x 14	14.0	10.4	7.9	150	81/2	5/8 x 21 x 3	32
RTF 16 6-1X	16	6.1 x 4.1 x 16	10.0	7.4	5.5	100	81/2	5/8 x 21 x 3	36
RTF 20 6-6X	20	6.6 x 4.1 x 20	8.2	5.8	4.1	100	91/2	5/8 x 21 x 3	45
RTF 20 7-3X	20	7.3 x 4.6 x 20	14.4	11.1	8.9	200	1111/2	1 x 30 x 4	62
RTF 25 6-7X	25	6.7 x 4.1 x 25	5.4	3.4	2.0	100	91/2	1 x 30 x 4	55
RTF 25 7-3X	25	7.3 x 4.6 x 25	9.6	7.3	5.7	200	111/2	1 x 30 x 4	75
RTF 30 8-4X	30	8.4 x 4.6 x 30	11.2	8.5	6.7	100	111/2	1 x 30 x 4	106
RTF 30 8-5X	30	8.5 x 4.8 x 30	15.6	12.0	9.5	200	111/2	1 x 30 x 4	140
RTF 30 10-5X	30	10.5 x 6.6 x 30	28.7	22.4	17.4	300	141/2	1 x 30 x 4	202
RTF 35 8-4X	35	8.4 x 4.6 x 35	5.5	3.8	2.7	100	111/2	1 x 30 x 4	125
RTF 35 8-5X	35	8.5 x 4.8 x 35	8.5	6.2	4.7	200	111/2	1 x 30 x 4	161
RTF 35 11-2X	35	11.2 x 6.6 x 35	21.8	16.6	12.5	300	15	11/4 x 36 x 6	248
RTF 40 11-7X	40	11.7 x 6.2 x 40	6.4	4.3	2.4	165	15 ¹ / ₂	11/4 x 36 x 6	165
RTF 40 11-8X	40	11.8 x 6.4 x 40	12.2	8.8	6.0	300	151/2	11/4 x 36 x 6	227
RTF 40 12X	40	12.0 x 6.9 x 40	25.8	19.3	14.3	300	151/2	11/4 x 36 x 6	317
RTF 45 11-7X	45	11.7 x 6.2 x 45	3.9	2.0	0.6	300	15 ¹ / ₂	11/4 x 36 x 6	183
RTF 45 11-9X	45	11.9 x 6.6 x 45	15.2	10.9	7.6	300	151/2	11/ ₄ x 36 x 6	295

		Pole Data		
Shaft	Bolt	Bolt	Base	
base	circle	projection	square	Template
size	Α	В	C	number
5.4"	8"	3"	7.75"	PJ50108
5.6"	8.5"	3"	8.125"	PJ50109
5.9"	8.5"	3"	8.125"	PJ50110
6.1"	8.5"	3"	8.125"	PJ50111
6.6	9.5"	3"	8.8"	PJ50112
6.7"	9.5"	3"	8.8"	PJ50113
7.3"	11.5"	4"	11"	PJ50114
8.4"	11.5"	4"	11"	PJ50115
8.5"	11.5"	4"	11"	PJ50116
10.5"	14.5"	4"	13.3"	PJ50117
11.2	15"	4"	13.5"	PJ50118
11.7"	15.5"	4"	14"	PJ50119
11.8"	15.5"	4"	14"	PJ50120
11.9"	15.5"	4"	14"	PJ50121
12.0"	15.5"	4"	14"	PJ50122



RTFDB

Features

Shaft – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

Hand hole – An oval, non-metallic, 2-1/2"x5" hand hole secured with a vandal-resistant, stainless steel 1/4" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Must specify color.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole					Approx.
Catalog	mount.	shaft size	80	90	100	Max.	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	mph	mph	mph	wt.	(lbs.)
RTFDB 18 6X	14	6.0 x 4.1 x 18	14.0	10.4	7.9	150	34
RTFDB 20 6-6X	16	6.6 x 4.1 x 20	10.0	7.4	5.5	100	38
RTFDB 24 6-7X	20	6.7 x 4.1 x 24	8.2	5.8	4.1	150	46
RTFDB 30 8-3X	25	8.3 x 4.4 x 30	6.2	4.7	3.6	100	71
RTFDB 30 8-4X	25	8.4 x 4.6 x 30	14.5	11.2	8.9	200	98
RTFDB 35 8-4X	30	8.4 x 4.6 x 35	10.5	8.0	6.2	200	116
RTFDB 35 8-5X	30	8.5 x 4.9 x 35	14.8	11.4	9.0	300	153
RTFDB 41 11-8X	35	11.8 x 6.4 x 41	14.3	10.8	7.8	300	218

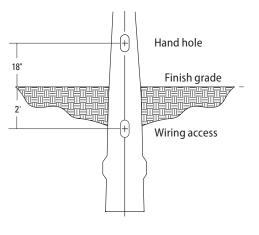
Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.





Square Straight Fiberglass

SSF

Features

Shaft – Constructed by the pultrusion process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight. The fiberglass strands traverse the length of the pole.

Anchor Base – Heavy-duty, A356-T6 aluminum base casting is permanently bonded to the outside of the fiberglass shaft.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, 2-1/2"x 5" hand hole secured with a vandal-resistant, stainless steel 1/4" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish - Must specify color

Base Cover – Full base cover finished to match pole.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

NOTES:

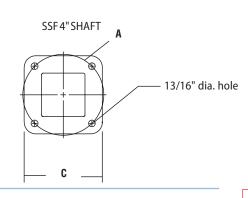
- $\bullet \ \ Mounting \, arrangement: (PT) \, open \, top; (T20) \, 2-3/8" \, OD \, (2" \, NPS)$
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576. Brackets, see page 578.

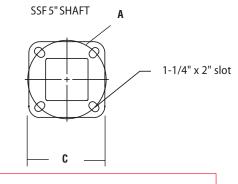
EPA (ft²) with 1.3 g

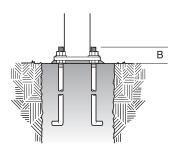
Technical Information EPA (ft²) with 1.3 gust

	Nom.	Pole					Bolt	Bolt	Approx.
Catalog	mount.	shaft size	80	90	100	Max.	circle	size	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	mph	mph	mph	wt.	(in.)	(in.xin.xin.)	(lbs.)
SSF 6 4X	6	4 x 4 x 6	23.2	17.9	14.2	150	8	5/8 x 21 x 3	18
SSF 8 4X	8	4 x 4 x 8	16.5	12.6	9.8	150	8	5/8 x 21 x 3	23
SSF 10 4X	10	4 x 4 x 10	12.0	8.9	6.7	150	8	5/8 x 21 x 3	27
SSF 12 4X	12	4 x 4 x 12	9.1	6.5	4.6	100	8	5/8 x 21 x 3	31
SSF 14 4X	14	4 x 4 x 14	6.7	4.4	2.8	100	8	5/8 x 21 x 3	35
SSF 16 4X	16	4 x 4 x 16	3.7	2.2	1.1	100	8	5/8 x 21 x 3	39
SSF 20 4X	20	4 x 4 x 20	7.2	1.8	0.5	150	8	5/8 x 21 x 3	80
SSF 20 5X	20	5 x 5 x 20	12.2	9.1	6.9	200	11	1 x 30 x 4	110
SSF 25 4X	25	4 x 4 x 25	4.2	2.5	0.75	150	8	5/8 x 21 x 3	90
SSF 25 5X	25	5 x 5 x 25	8.7	6.2	4.4	200	11	1 x 30 x 4	115
SSF 30 5X	30	5 x 5 x 30	4.7	2.8	1.9	200	11	1 x 30 x 4	120
SSF305XHD	30	5 x 5 x 30	8.6	5.1	2.6	200	10-12	1 x 30 x 4	164

		Po	ole Data		
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4" 5"	8" 11"	3" 4"	7.4" 11 1"	ABSSF-4 ABSSF-5	PJ50123 PJ50124









STC

Features

Shaft – Concrete mix has a minimum 28-day compressive strength of 6,500 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .120 (11-gauge) diameter. Poles have a continuous taper of 0.165 inches per foot.

Hand hole – A 3"x5" hand hole is located 24" above ground line and a 2-1/2" x 7" minimum conduit en-

trance is located 18" below ground line. Inserts for the hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – An 18" long, #4 stranded copper pigtail, connected to reinforced strand, is provided at pole top and at cable entrance below grade.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof top cap provided with all drill-mount poles.

Finish – Smooth, natural form finish, soft gray color is standard.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole				Approx.
Catalog	mount.	shaft size	80	90	100	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	mph	mph	mph	(lbs.)
STC 13 4X	10'	4.0 x 4.0 x 13	3.5	3.5	3.5	189
STC 20 7-24X	16	4.0 x 7.24 x 20	22	16	13	680
STC 20 9-24X	16	6.0 x 9.24 x 20	48	37	29	1,110
STC 24 4-80X	20'	4.8 x 4.8 x 24	3.5	N/A	N/A	517
STC 24 5-60X	20'	5.6 x 5.6 x 24	3.5	3.5	N/A	686
STC 24 6-40X	20'	6.4 x 6.4 x 24	3.5	3.5	3.5	917
STC 25 8-05X	20	4.0 x 8.05 x 25	21	16	12	985
STC 25 10-05X	20	6.0 x 10.05 x 25	44	34	26	1,530
STC 30 8-86X	25	4.0 x 8.86 x 30	20	15	11	1,350
STC 30 10-86X	25	6.0 x 10.86 x 30	49	33	28	2,000
STC 35 9-67X	29	4.0 x 9.67 x 35	17	12	8	1,800
STC 35 11-67X	29	6.0 x 11.67 x 35	43	32	24	2,540
STC 35 6-40X	30'	6.4 x 6.4 x 35	3.5	N/A	N/A	1,337
STC 35 7-25X	30'	7.25 x 7.25 x 35	3.5	3.5	N/A	1,685
STC 36 8X	30'	8.0 x 8.0 x 36	3.5	3.5	3.5	2,145
STC 40 12-48X	34	6.0 x 12.48 x 40	42	30	22	3,130
STC 45 13-29X	38	6.0 x 13.29 x 45	41	31	22	3,795
STC 46 8X	40'	8.0 x 8.0 x 46	3.5	N/A	N/A	2,740
STC 47 9-25X	40'	9.25 x 9.25 x 47	3.5	3.5	N/A	3,813

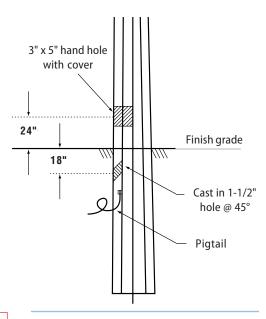
Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

 $Do \, not \, erect \, poles \, without \, having \, fixtures \, installed.$

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.





SPRTC

Feature

Shaft – Concrete mix has a minimum 28-day compressive strength of 11,000 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .203 (5-gauge wire) diameter. Poles have a continuous taper of 0.216 inches per foot. Poles are centrifugally spun and round in cross-section with a hollow center.

Hand hole – 4"x8" hand hole is located 24" above ground line. 4"x8" conduit entrance is located 18" below ground line.2-1/2"x8" reinforced hand hole with flush cover is located at cage/crossarm locations. 1-1/2" coupling wire inlet/outlet is located opposite this hand hole. Inserts for hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – A continuous solid or stranded copper ground wire is cast into the pole. Wire termi-

nates at top of pole to accept a 1/2"x24" lightning rod and approximately 12" below grade. Copper coupling provides a 1/2" tapped insert at pole face for grounding hardware.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Finish – Smooth, natural form finish, soft gray color is standard.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

INSTALLATION NOTES:

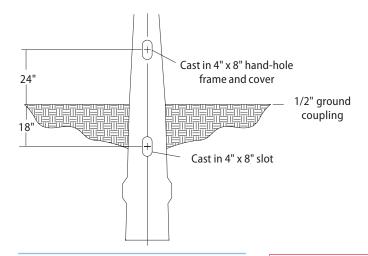
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

Technical Information

EPA (ft²) with 1.3 gust

	Nom.	Pole							Approx.
Catalog	mount.	shaft size	80	Max.	90	Max.	100	Max.	ship wt.
number	ht. (ft.)	(in. x in. x ft.)	mph	wt.	mph	wt.	mph	wt.	(lbs.)
SPRTC C6 45 7-17	38	6.75 X 16.47 X 45	31	620	24	480	18	360	3,400
SPRTC C5 45 7-17	38	6.75 X 16.47 X 45	39	780	30	600	23	460	3,400
SPRTC C4 45 7-17	38	6.75 X 16.47 X 45	52	1,040	40	800	31	589	3,450
SPRTC C4 60 7-20	50	6.75 X 19.71 X 60	47	893	35	665	26	520	5,450
SPRTC C2 60 9-22	50	8.82 X 21.78 X 60	85	1,615	65	1,235	48	912	7,950
SPRTC H1 60 9-22	50	8.82 X 21.78 X 60	138	2,622	101	1,919	80	1,520	8,100
SPRTC C3 70 9-24	60	8.82 X 23.94 X 70	56	1,064	42	798	32	608	9,900
SPRTC C1 70 9-24	60	8.82 X 23.94 X 70	90	1,710	69	1,311	52	988	10,100
SPRTC H2 70 10-24	60	8.82 X 23.94 X 70	139	2,641	103	1,957	81	1,539	10,400
SPRTC C2 80 9-26	68	8.82 X 26.1 X 80	63	1,197	45	855	34	646	12,300
SPRTC C1 80 9-26	68	8.82 X 26.1 X 80	85	1,445	65	1,105	48	816	12,300
SPRTC H2 80 10-26	68	8.82 X 26.1 X 80	136	2,584	101	1,919	79	1,501	12,800
SPRTC C2 90 9-28	77	8.82 X 28.26 X 90	54	1,026	39	741	28	532	14,850
SPRTC C1 90 9-28	77	8.82 X 28.26 X 90	78	1,482	56	1,064	42	798	14,950
SPRTC H2 90 10-28	77	8.82 X 28.26 X 90	132	2,508	97	1,843	75	1,425	15,350
SPRTC C1 105 9-32	91	8.82 X 31.5 X 105	70	1,330	49	931	35	665	19,250
SPRTC H1 105 9-32	91	8.82 X 31.5 X 105	99	1,881	74	1,406	54	1,026	19,450
SPRTC H3 105 11-34	91	11.0 X 33.68 X 105	144	2,736	105	1,995	80	1,520	22,050
SPRTC C1 115 9-34	100	8.82 X 33.66 X 115	65	1,235	45	855	31	589	22,350
SPRTC H1 115 9-34	100	8.82 X 33.66 X 115	96	1,824	70	1,330	50	950	22,550
SPRTC H2 115 10-34	100	8.82 X 33.66 X 115	125	2,375	91	1,729	69	1,311	22,800





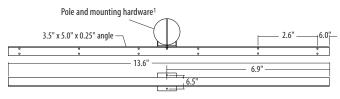
Round Tapered Concrete Sportslighting Poles

Angle Iron Crossarms for Concrete Poles

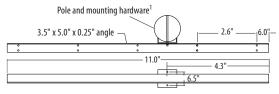
Catalog Number	Arm EPA (sq. ft.)	Weight (lbs.)
ACRCW2	1.80	50.0
ACRCW3	3.00	86.0
ACRCW4	4.50	121.0
ACRCW5	5.70	157.0
ACRCW6	7.00	193.0

Angle Iron Crossarms for Concrete or Wood Poles

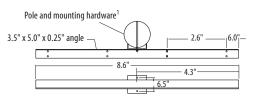
Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).



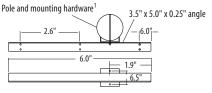
ACRCW6, 6-Fixture Angle Arm

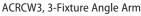


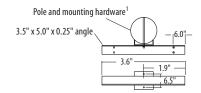
ACRCW5, 5-Fixture Angle Arm



ACRCW4, 4-Fixture Angle Arm







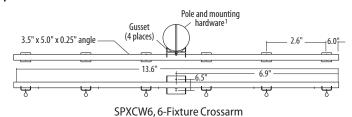
ACRCW2, 2-Fixture Angle Arm

Pre-wired Tubular Crossarms for Concrete Poles

Catalog	EPA	Weight
Number	(sq.ft.)	(lbs.)
SPXCW2	1.00	23.5
SPXCW3	1.80	40.0
SPXCW4	2.50	56.5
SPXCW5	3.20	73.0
SPXCW6	3.90	89.5

Pre-Wired Tubular Crossarms for Concrete or Wood Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA). **Use in conjunction with CV3P luminaire option.**



Pole and mounting hardware 1

2.5"Sched. 40 pipe (4 places)
(2.88 0D)

11.0"

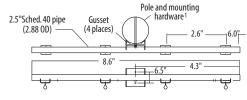
2.6"

6.0"

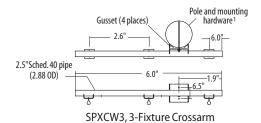
6.5"

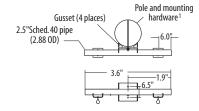
4.3"

SPXCW5, 5-Fixture Crossarm



SPXCW4, 4-Fixture Crossarm





SPXCW2, 2-Fixture Crossarm

NOTES:

1 Connecting hardware for crossarm to pole is supplied by others. Bolt holes in c-channel are 0.88" diameter.



Anchor Bolts

Available in various sizes for use with Lithonia poles. Set includes hex nuts and washers. Anchor bolt is partially galvanized for exposed threads per ASTM-A153. Bolts have minimum-yield strength rating of 55,000 psi, AASHTO M314 GR55. See individual pole catalog pages for anchor bolt sizes and description.



Base Covers

Two-piece, full-base cover. Four fasteners provided to secure pieces together. Finished to match pole. Shipped separately. Standard with steel poles only.

		Dimensions		
Option	Pole	(square)	(depth)
SBC4	SSS 4"	8.75"	х	5.8"
SBC5	SSS 5"	11.44"	Х	6.4"
SBC6	SSS 6"	13.5"	Χ	4"

For full-base cover on other poles, must order FBC. When ordering separately, specify full pole nomenclature; i.e., FBC for RTA 25 TE. Also specify if pole is existing.

Festoon Outlets

Provision provided for mounting duplex outlet. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

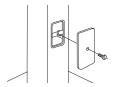
Option	Description

FDL Festoon Duplex Outlet, Less Electric

Hand-hole Cover Plates

SSS HHC: For all SSS poles

All other poles order as hand-hole cover for full pole description. Also specify if pole is existing.



Tenon Dimensions

Tenon Mour	nting Slipfitters				(Ord	der separately)
Number of fixtures						
Tenon OD	0ne	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8"	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490
2-7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490
<u>Aeris</u> ™						
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Couplings & Nipples

Threaded couplings and/or nipples must be factory installed. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

CPL12	1/2"	threaded coupling	NPL12	1/2"	threaded nipple
CPL34	3/4"	threaded coupling	NPL34	3/4"	threaded nipple
CPL1	1"	threaded coupling	NPL1	1"	threaded nipple

Horizontal Arm Bracket

Single or twin side-mounted horizontal arm brackets for additional luminaires. Made from 2-3/8" pipe. Upright is 18" from pole; special arm lengths may be available upon request. Arms are rated for luminaires up to 4.5 sq. ft. EPA and 100 lbs. per arm. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

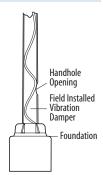
		EPA	Weight	
Option .	Material	(sq. ft.)	(lbs.)	
H1-18A	Aluminum	.43	7	
H1-18S	Steel	.50	11	
H1-18F	Fiberglass	.45	8	
H1-18C	Concrete	.55	9	



NOTE: SSS and SSA arm attachment is slightly different from RTA. Arm modifications located on pole to accept arms. Arms shipped as separate item.

VD - Vibration Damper

It has been found that low steady winds sometimes induce second mode vibration in lighting poles. Second mode vibration is characterized by the maximum periodic motion occuring at approximately the mid-height of the pole. This type of vibration can result in failure of the pole and/or luminaire. There is no method of predicting destructive light pole vibration.

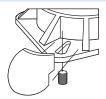


NOTES:

- $1 \quad \mathsf{FVD}-\mathsf{Field}\,\mathsf{installable}\,\mathsf{vibration}\,\mathsf{damper}\,\mathsf{available}\,\mathsf{upon}\,\mathsf{request}.\,\mathsf{Consult}\,\mathsf{factory}.$
- $2\quad For more information on the effects of vibrations, visit www. lithonia.com.$

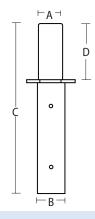
Nut Covers

Four nut covers are standard for RSA and RTA poles only.



Bolt-on Tenon

Cat. No.	Α	В	C	D	Wt. (lbs.)
SBT-4S	2-3/8"	3"	133/4"	5"	7
SBT-5S	2-3/8"	4"	133/4"	5"	8
SBT-6S	2-3/8"	5"	133/4"	5"	17



NOTES:

If ordering for existing pole, must order as MAEX and include order number.



Tamperproof (TP): Order as TP. Tamperproof screws provided with base cover.



The orientation from the hand hole and location from the pole base must be specified when ordering the pole. The orientation from the hand hole is designated by the pole sides A, B, C or D. The location on the pole shaft is designated by the distance from the pole base.

Ordering Information

Height from base (ft.)

Determined by application.

HA Horizontal arm

FDL Festoon outlet- less electrical

Options

12CP 1/2" coupling

34CP 3/4" coupling

1CP 1" coupling

12NP 1/2" threaded nipple

34NP 3/4" threaded nipple

1NP 1" threaded nipple

Extra hand hole, 3 x 5 only нн

PT Open top

T20 2-3/8" tenon

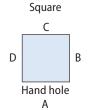
T25 2-7/8" tenon

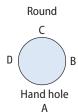
T30 3-1/2" tenon

T35 4" tenon

Example: HA12B

- Orientation A side of the pole with the hand hole
- side of the pole 90 degrees counterclockwise from the hand hole (right)
- side of the pole 180 degrees counterclockwise from the hand hole (opposite)
- side of the pole 270 degrees counterclockwise (or 90 degrees clockwise) from the hand hole (left)





See the following examples:

1. SSS 25 5G with one arm-mount fixture and two floodlights on horizontal arm brackets. Floodlights are to be 180 degrees from each other, 90 degrees from the shoebox and 12 feet above the base.

Order as: SSS 25 5G DM19 HA12A HA12C

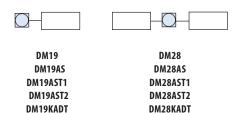
2. RTA 30 8G with two arm-mount fixtures at 180 degrees, one floodlight on a horizontal arm bracket and a 1/2" coupling. Floodlight is to be opposite hand hole and 6 feet from top of pole. Coupling should be 10 feet from top, same side as floodlight.

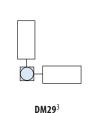
Order as: RTA 30 8G HA24C 12CP20C

3. SSS 20 4C with a 2-3/8" tenon and festoon outlet 90 degrees left of the hand hole, 5 feet above the base.

Order as: SSS 20 4C T20 FDL5D

Drill Mounting Options1



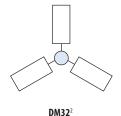


DM29AS3

DM29AST1³

DM29AST2³

DM29KADT³

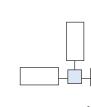


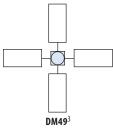
DM32AS²

DM32AST12

DM32AST2²

DM32KADT²





DMA393 DM39AS3 DM39AST13 DM39AST23 DM39KADT³

DM49AS3 DM49AST1³ DM49AST2³ DM49KADT³

NOTES:

- AS denotes Aeris luminaire, AST1/AST2 denotes Aeris Suspend Size 1 or 2 and KADT denotes KAD suspend
- 2 Available with round pole only
- or more fixtures at 90°.

 $3\quad Reference\,fix ture\,page\,for\,minimum\,arm\,length\,required\,when\,mounting\,2$

www.lithonia.com



Aluminum Mounting Brackets

Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (**EPA**).

All brackets have a luminaire rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

Bullhorns and Spokes — order as separate items.

Brackets for Round Aluminum Poles Only

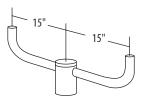
Finish – Natural aluminum. Optional painted finishes available. Plastic cap supplied.

Round pole

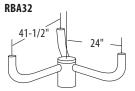
Brackets mount to T25 tenon 2-7/8" OD, or pole top that is 2-7/8" OD.

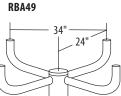
Catalog	EPA	Weight
number	(sq. ft.)	(lbs.)
RBA28	1.2	7.0
RBA32	1.7	14.3
RBA38	1.9	10.5
RBA48	2.7	14.5
RBA49	2.2	17.5



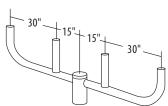


RBA38









Brackets for Square Aluminum Poles Only

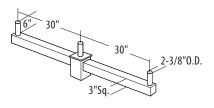
Finish – Natural aluminum. Optional painted finishes available. Plastic cap supplied.

Square pole

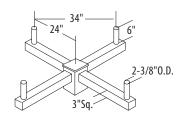
Brackets flush mount on 4", 5" and 6" square poles. For use with internal sleeve, plain opentop poles, Lithonia Lighting poles only. **Must be ordered with pole to ensure proper fit.**

Catalog		EPA	Weight	
	number	(sq. ft.)	(lbs.)	
	SBA28	0.90	12	
	SBA38	1.50	17	
	SBA48	2.25	22	
	SBA49	1.7	22	

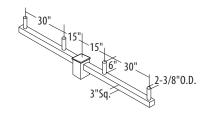
SBA38



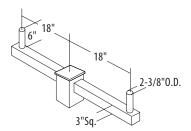
SBA49



SBA48



SBA28





Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (**EPA**). All

12"

(3) 3/8" x 1/2" — set screws @120°

Removable

Cap

2-3/8" O.D.Tubing

brackets have a luminaire rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

Bullhorns and Spokes — Order as separate items.

Brackets for Steel Poles Only

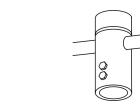
Finish — Dark bronze, standard. Other colors available (consult factory). Plastic cap supplied.

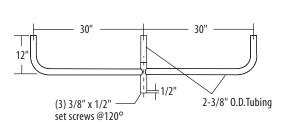
Round pole

Requires T20 Tenon (min. 5" tall). OD 2-7/8" – I.D. 2-1/2"

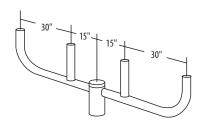
EPA	Weight
(sq. ft.)	(lbs.)
1.0	21.0
1.3	28.0
1.3	34.0
2.0	38.0
1.6	32.0
2.2	38.0
2.3	44.0
3.4	47.0
1.6	44.0
2.8	46.0
	(sq. ft.) 1.0 1.3 1.3 2.0 1.6 2.2 2.3 3.4 1.6

Standard Hub

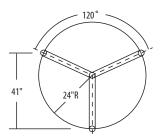




BS48 - slipfitter for T20 BS48 HD - slipfitter for T35

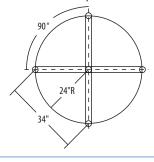


BS32 - slipfitter for T20 BS32 HD - slipfitter for T35



BS49 - slipfitter for T20

BS49 HD - slipfitter for T35



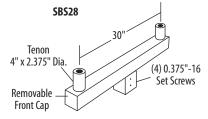
Brackets for Steel Square Poles Only

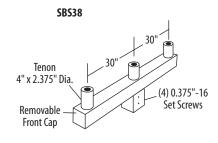
Finish – Dark bronze, standard.

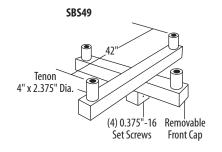
Square pole

Requires T20 (2-3/8" max OD) tenon on pole for mounting.

Catalog		EPA	Weight
	Number	(sq. ft.)	(lbs.)
	SBS 28	1.1	30.0
	SBS 38	1.7	42.0
	SBS 49	2.1	45.0







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ANTIQUE Street Lamps™



Historically Styled Decorative Posts, Luminaires and Arms

Rapid Ship Posts and Luminaires

We offer a wide variety of posts and luminaires for quick delivery to support the fast pace of today's construction industry. Products in this program are shipped from our factory in just 10 days!

Preserving the Night Sky with Superior Optics

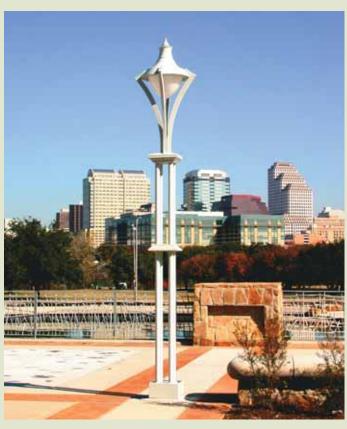
Traditionally styled luminaire designs are combined with high performance cut-off optics to provide nighttime friendly lighting installations. As the market leader in decorative outdoor lighting, Antique Street Lamps offers a multitude of products to meet this need.

Extensive Product Line of Posts, Luminaires, Arms and Accessories

The products represented in the following pages are only a small cross-section of our total capability. Please consult our specifications binder and our website at www.AntiqueStreetLamps.com for complete detailed information.

Custom Design Capabilities

Antique Street Lamps has a long history of creating and engineering project-specific designs. The scope of our experience includes replication of no-longer-available posts and luminaires for historical renovations, or creating completely new and unique signature products.





CONTENTS

Rapid-Ship Posts

582

Key West Series Sussex Series Hartford Series Washington Series New York Series Montreal Series Chicago Series

Rapid-Ship Luminaires

583

Spheres Acorns Octagonal Refractive Internal Cutoff Optics Square Hexagonal

Nighttime Friendly Luminaires 584

Full Cutoff Cutoff

Historical Luminaires

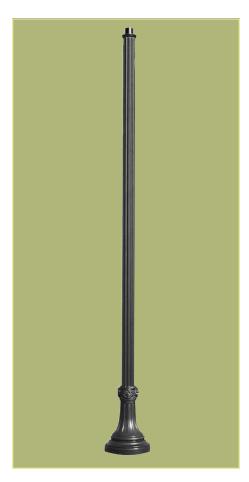
584

Post-top Luminaires Roadway/Pendant Luminaires

Historical Posts and Arms 585

Post-top Arms Roadway Arms Cast Aluminum Posts Cast Iron Posts Cast Iron and Steel Posts

Rapid-Ship Posts



Intended Use

Antique Street Lamps Rapid Ship posts provide a historical style appearance that is perfectly suited for use with Antique Street Lamps luminaires. Posts are available in 10-foot to 16-foot heights. Typical applications include street lighting, downtowns, parks, public areas and mall interiors.

Features

Materials – The post base is manufactured from heavy-wall, low copper, cast aluminum. The shafts are straight smooth or straight fluted extruded aluminum. Hardware and fasteners are stainless steel material. Standard exterior hardware is of a tamper-resistant design.

Construction – All posts are fabricated as onepiece construction. The shafts are telescoped into the bases and double welded for maximum structural integrity. An integral 3" O.D. x 3" tall tenon is provided for luminaire mounting.

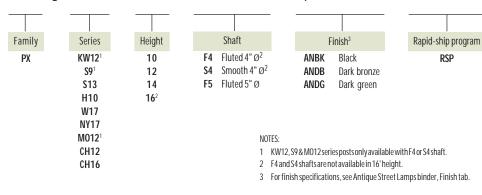
Installation – Posts are provided with four, hotdip galvanized, ¾" L-type anchor bolts. A door is provided in the base for anchorage and wiring access. A grounding screw is provided inside the base accessible from the door.

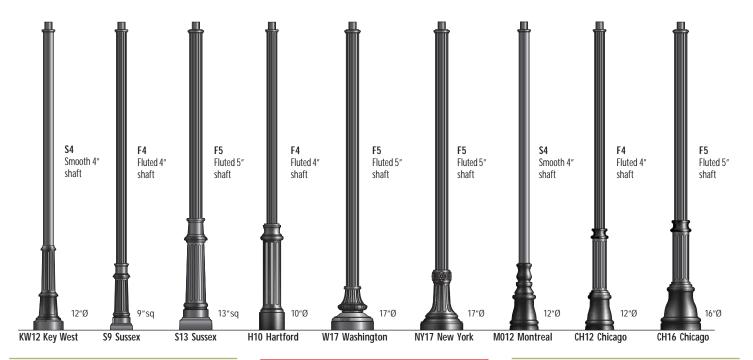
Finish – The posts are finished with a premium polyester powder coating. Standard colors are black, dark bronze or dark green.

Shipping – The Rapid Ship Program provides product shipment within 10 days of receipt of order. Please refer to our website at www.AntiqueStreetLamps.com for more information. The specific details about program terms and conditions, order quantities and product availability are shown on our website and are regularly updated.

Example: PX CH16 14 F5 ANBK RSP

Ordering Information





Antique Street Lamps Rapid Ship luminaires provide a historical style appearance that is perfectly suited for use with Antique Street Lamps posts. Typical applications include street lighting, downtowns, parks, public areas and mall interiors.

Features

Materials – All luminaire bases and frames are manufactured from heavy-wall, low copper, cast aluminum. Round domes are spun aluminum or cast aluminum. Globes are formed from clear acrylic or polycarbonate and are either smooth, textured or refractive. Hardware and fasteners are stainless steel material. Standard exterior hardware is of a tamper-resistant design.

Installation – All luminaires are designed to slip fit

a 3" O.D. x 3" tall tenon and attach with setscrews.

Light Source – Luminaires are provided with a quick-disconnect H.I.D. ballast and socket assembly.

Finish – The posts are finished with a premium polyester powder coating. Standard colors are black, dark bronze or dark green.

Shipping – The Rapid Ship Program provides product shipment within 10 days of receipt of order. Please refer to our website at www.AntiqueStreetLamps.com for more information. The specific details about program terms and conditions, order quantities and product availability are shown on our website and are regularly updated.

Listings

UL Listed to US and Canadian safety standards. Luminaires are labeled as suitable for wet locations.

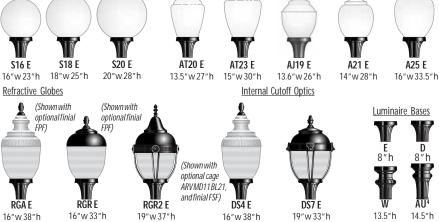
Rapid-Ship Luminaires

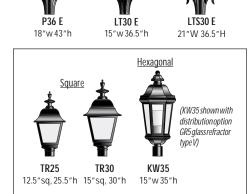


Ordering Information

Example: A25 AU 100M MED ACT GR5 TB1 PER PE1 ANBK RSP

Series	Bases	Wattage/lamp ²	Lens material	Distribution	Voltage ³		Finish ⁵	
S16 ²	E	Metal Halide	All luminaires except those shown below	All luminaires except those shown below	TB1 120V	Al	NBK Black	
S18 ²	AU	70M MED 70W	ACT Acrylic, clear textured	(blank) Symmetrical distribution	TB2 208V	Al	NDB Dark br	ronze
S20	D	100M MED 100W	<u>\$16 and \$18 only</u>	GR5 Glass refractor type V	TB3 240V	Al	. NDG Dark gi	reen
AT20 ²	W	175M MED 175W	AWS Acrylic white smooth	GR3 Glass refractor type III	TB4 277V			
AT23		250M MED 250W	<u>P36 only</u>	RGA, RGRs and AJ19	347 347V		Rapid-s	ship program
AJ19		High Pressure Sodium	PCT Polycarbonate clear textured	R5 Refractive globe type V				RSP
A21 ²		100S MED 100W	RGA and RGRs only	R3 Refractive globe type III		Ontions		
A25		150S MED 150W	ARF Acrylic refractive	DS4 and DS7 only		Options		
P36			DS4 and DS7 only	SR5S Reflector type V	FPF	Finial for AT, A, RGA	ı or RGR	
LT30			(blank) Acrylic refractive		505	only	.D. I	
LTS30			KW35 only		FSF	Finial for RGA or RGI	,	
RGA			ACS Acrylic clear smooth		PER	Twist and lock photo	ocontrol	
RGR			AJ19 only		PE1	receptacle ⁴	L DE 120	
RGR2			GRF Glass refractive		PEI	NEMA twist and lock 208, 240V ⁴	A PE 120,	
DS4 ²		NOTES:			PE3	NEMA twist and lock	k DE 2/17\/ ⁴	
D\$7 ²			$35\mathrm{recommended}$ with a glass refractor, option GR5		PE4	NEMA twist and lock		
TR25	N/A		Mnot available with \$16, \$18, AT20, A21, D\$4 and D\$	7. 250M only available with bases AU	PE7	NEMA twist and lock		
TR30	N/A		W. Lamp not supplied with luminaires.	Canadal	ARV MD11 BL21	Cage for RGA or RGR		
KW35 ¹	N/A		ti-tap ballast (120, 208, 240, 277V), (120, 277, 347V i ional photocontrols only available with the AU lum	•	AIRV INIDITI DEZT	ouge for Nort of Nor	to only	
			finish specifications and color options, see ANTIQU		4			
		3 1011	imisirspecifications and color options, see Air 1120	Estroctedinps binder, i misirtab.	-			
Sp	here Globes		Acorn Globes			√ Oc	tagonal .	Λ



Note: Luminaires above shown with the Eseries luminiare base. Replace Ebase with AU, Dor W base for more luminaire choices. The series luminiare base is a series of the series luminiare base of the series luminiare base is a series of the series luminiare base. The series luminiare base is a series of the series luminiare base is a series of the series luminiare base. The series luminiare base is a series of the series luminiare base is a series of the series luminiare base. The series luminiare base is a series of the series luminiare base is a series of the series luminiare base. The series luminiare base is a series of the series luminiare base is a series of the series of the series luminiare base is a series of the series of the series of the series luminiare base is a series of the


Nighttime Friendly Luminaires





FRIENDLY

Consistent with LEED® goals
& Green Globes™criteria
for light pollution reduction

Not available on all optics. Consult factory.

Historical Style with Cutoff Performance

Antique Street Lamps offers a complete line of historically based designs that help prevent nighttime light pollution while providing quality outdoor illumination. This family of traditional luminaires is designed using the Aeris™ reflector system. Various IES cut-off classifications are available depending on the combination of options selected. Detailed information about these luminaires including photometric performance is available on our website at www.AntiqueStreetLamps.com.

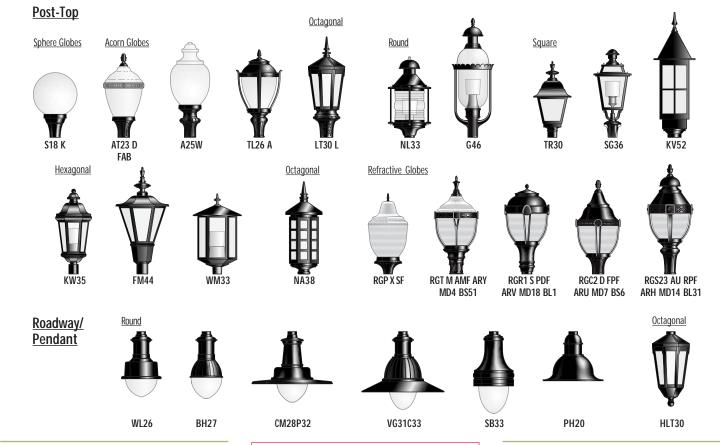
Nighttime Friendly Full Cutoff (IESNA Classification) Luminaires



Historical Luminaires

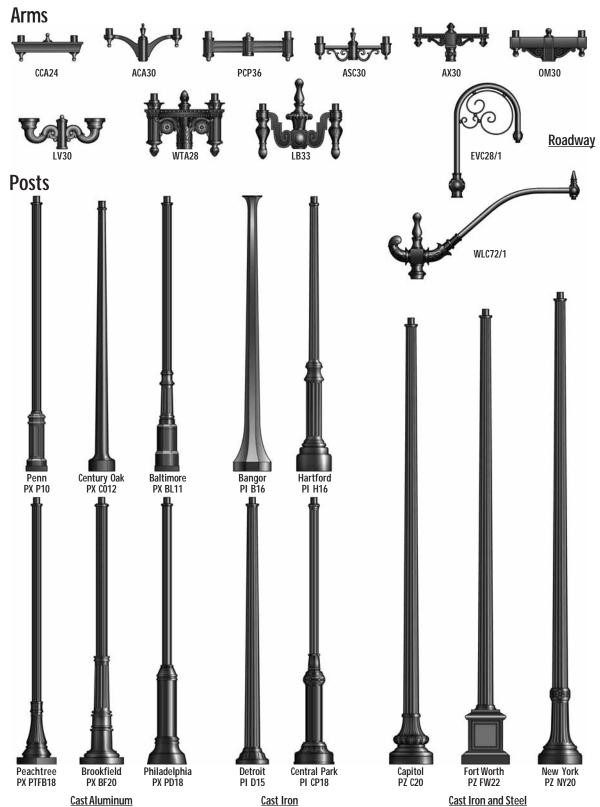
Antique Street Lamps offers a large selection of historical luminaires. Below is a sample of some or our most popular designs. Detailed information about our complete selection is available in our catalog or on our website at www.AntiqueStreetLamps.com.

luminaires.



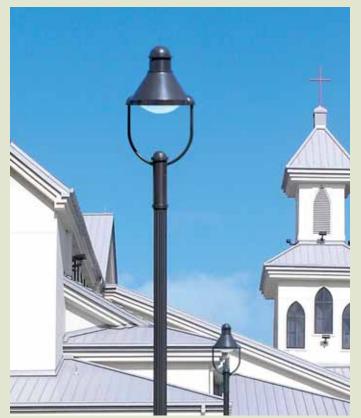
Antique Street Lamps offers a large selection of historical posts and arms. Below is a sample of some of our most popular designs. Detailed information about our complete selection is available in our catalog or on our website at www.AntiqueStreetLamps.com.

Historical Posts and Arms



EUROTIQUE®

Architectural Site & Roadway Lighting



High-Efficiency Architectural Decorative Luminaires, Poles and Arms

Contemporary-Styled Luminaires and Poles

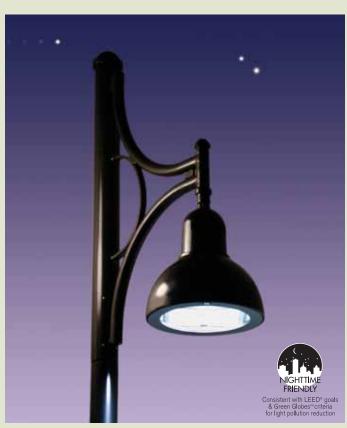
The Eurotique® family offers superior nighttime performance while enhancing the architectural integrity of your project. This product line offers a variety of forms that are carefully scaled to fit each area of your project's outdoor lighting environment. Multiple fixture and arm styles are available in two sizes to complement virtually any architectural style. The modular design concept of the Eurotique® family allows for ease of installation and simple maintenance access to lamp and ballast.

Preserving the Night Sky with Superior Optics

Contemporary-styled luminaire designs are combined with high performance cut-off optics to provide nighttime friendly lighting installations. As the market leader in decorative outdoor lighting, we offer a multitude of products to meet this need.

Custom Design Capabilities

Eurotique® designs have been created and engineered specifically for several custom projects. The scope of our experience includes developing architect-inspired poles and luminaires to complement project style, or creating completely new and unique signature products.





ANTIQUE STREET LAMPS

CONTENTS



Luminaires

588

Copenhagen Series Stockholm Series Munich Series – Pendant Mount Munich Series – Post Top Mount Hanover Series – Pendant Mount Hanover Series – Post Top Mount

Arms and Wall Brackets

590

591

EAA Series EAB Series EAC Series EAD Series EAE Series EAG Series EAH Series EAJ Series EAK Series

EAL Series

Poles

EPAX S4 Series PX PD18 Series EPSX S4 Series EPAX S5 Series EPSX S5 Series EPAX S4S6 Series EPAX S5S7 Series EPSX S5S7 Series

Contemporary Luminaires

EUROTIQUE®



Intended Use

Luminaires are designed for applications where cut-off performance and contemporary architectural style are desired. Typical applications include street lighting, downtowns, parks, public areas and mall interiors.

Features

Eurotique® Luminaires are available in two sizes and utilize the Aeris™ reflector system.

Optics – Anodized segmented reflectors are designed for superior uniformity and control. Reflectors are available in five distributions and attach to the door with internal stainless steel screws.

Materials – All luminaries ballast housings and skirts are constructed of heavy-wall, low copper, cast aluminum. Teardrop globe and half sphere lens options are clear acrylic. Flat and sag lens options are manufactured of clear impact-resistant tempered glass.

Installation – Pendant luminaries are designed to mount to swivel adapters provided with Eurotique® arms. Pole top luminaries are designed to slip-fit 3.375" dia. or 4.375" dia. pole top tenon and attach with (8) socket style set screws.

Light source – Luminaries are provided with a quick-disconnect H.I.D ballast and socket assembly for ease of maintenance.

Finish – The luminaries are finished with a premium polyester powder coating. Standard colors are black, dark bronze or dark green. Consult factory for special custom colors or verde green finish.

Listing

UL Listed to US and Canadian safety standards. Suitable for wet locations.

Ordering Information

261162	vvattage iamp
EC13RT	Metal Halide
ES22ST	50M MED 50W
EH16RT	70M MED 70W
EH16ST	100M MED 100W
EH16FT	150M MED 150W
EM17RT	175M MOG 175W
EM17ST	High Pressure Sodium
EM17FT	35S MED 35W
ETH16RT	50S MED 50W
ETH16ST FTH16FT	70S MED 70W
FTM17RT	100S MED 100W
ETM17KT	150S MED 150W
ETM175T	1303 WED 130W
LIMITITI	
LIWIT/II	
EH22RT	<u>Metal Halide</u>
	Metal Halide 175M MOG 175W
EH22RT	
EH22RT EH22ST EH22FT EM25RT	175M MOG 175W
EH22RT EH22ST EH22FT EM25RT EM25ST	175M MOG 175W 250M MOG 250W 400M MOG 400W
EH22RT EH22ST EH22FT EM25RT EM25ST EM25FT	175M MOG 175W 250M MOG 250W
EH22RT EH22ST EH22FT EM25RT EM25ST EM25FT ETH22RT	175M MOG 175W 250M MOG 250W 400M MOG 400W High Pressure Sodium
EH22RT EH22ST EH22FT EM25RT EM25ST EM25FT ETH22RT ETH22ST	175M MOG 175W 250M MOG 250W 400M MOG 400W High Pressure Sodium 150S MOG 150W
EH22RT EH22ST EH22FT EM25ST EM25ST EM25FT ETH22RT ETH22ST ETH22FT	175M MOG 175W 250M MOG 250W 400M MOG 400W High Pressure Sodium 150S MOG 150W 250S MOG 250W
EH22RT EH22ST EH22FT EM25RT EM25ST EM25FT ETH22RT ETH22ST ETH22ST ETH22FT	175M MOG 175W 250M MOG 250W 400M MOG 400W High Pressure Sodium 150S MOG 150W 250S MOG 250W
EH22RT EH22ST EH22FT EM25ST EM25ST EM25FT ETH22RT ETH22ST ETH22FT	175M MOG 175W 250M MOG 250W 400M MOG 400W High Pressure Sodium 150S MOG 150W 250S MOG 250W

EC13RT	EC13RT only								
ACS Acrylic, clear smooth									
PCS	Polycarbonate, clear smooth								
ES22, E	ES22, EH16, EM17, EH22, EM25,								
ETH16,	ETM17, ETH22 & ETM25 only								
GCF	Glass, clear flat								
GCSG	Glass, clear sag								
ACHS	Acrylic, clear half sphere								

ACD Acrylic, clear teardrop globe

Lens material

Dist	Distribution ²					
EC13RT or	EC13RT only					
R5	R5 Type V					
ES22, EH1	6, EM17,					
ETH16 & E	TM17 only					
SR2	Type II					
SR3	Type III					
SR4SC	SR4SC Type IV					
SR5S Type V						
SR5S	Type V					
	Type V VI25, ETH22 &					
	M25, ETH22 &					
EH22 & EN	M25, ETH22 &					
EH22 & EN	M25, ETH22 & nly					
EH22 & EM ETM25 on SR2	M25, ETH22 & nly Type II					
EH22 & EM ETM25 on SR2 SR3	M25, ETH22 & nly Type II Type III					
EH22 & EM ETM25 on SR2 SR3 SR4SC	M25, ETH22 & Ily Type II Type III Type IV					

Voltage¹

TB1 120V

TB2 208V

TB3 240V

TB4 277V

347 347V

480 480V³

	Options
HS SF DF QRS	House side shield ⁴ Single fusing Double fusing Quartz restrike
EC13RT, 1DS	H16 & H22 only Decorative shield
EC13RT	only
2DS 2DD	2 decorative shields 2 decorative discs
	luminaires only
EGR	Glow ring⁵
SMF SFF	Finial Finial
GF	
RF	
FSF	
	Finial
RPF	Finial

Example: EM25 400M MOG GCF SR2 TB1 ANBK

Finish⁶

Black (std.)

Dark bronze

Dark green

Verde green

Prime painted

(custom)

ANBK

ANDG

ANVG

ANPP

NIGHTTIME	
FRIENDLY	
nsistent with LEED* a	^

Consistent with LEED® goals & Green Globes™criteria for light pollution reduction Not available on all optics. Consult factory.

Cutoff Classifications

Classification	Lens Type Series		Distribution Optics
Full Cutoff	GCF	EH16, EH22,EM17, EM25	SR2, SR3, SR4SC, SR4W*, SR5S
Tun cuton	001	ETH16, ETH22,ETM17, ETM25	3NZ, 3N3, 3N430, 3N4VV , 3N33
	GCSG	EH16, EH22,EM17, EM25	SR2, SR3, SR4SC, SR4W*, SR5S
Cutoff	0030	ETH16, ETH22,ETM17, ETM25	31(2, 31(3, 31(436, 31(44)) , 31(33
Cuton	ACHS, ACD	EH16, EM17, ETH16, ETM17	SR2, SR3, SR4SC, SR5S
	ACHS, ACD	EH22, EH25,ETH22, ETM25	SRA4C, SR5S
Semi-cutoff	ACHS, ACD	EH22, EM25,ETH22, ETM25	SR2, SR3, SR4W

*SR4W only available with EH22 and EM25.

NOTES:

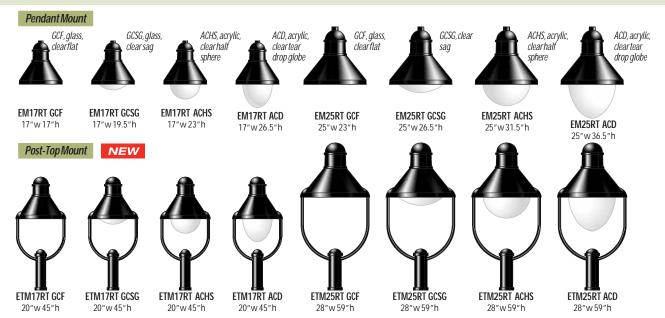
- 1 Multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
- $\label{eq:continuous} 2 \quad \text{Distribution classification depends on lens and reflector combination. See} \\ \quad \text{Eurotique® Binderforphotometric data or go towww.} \\ \text{AntiqueStreetLamps.com}.$
- 3 Consult factory for 480V availability.
- 4 Available for SR2, SR3 and SR4W only.
- 5 Glowring is not available with distribution SR4SC.
- 6 For finish specifications and color options, see ANTIQUE Street Lamps binder, Finish tab.



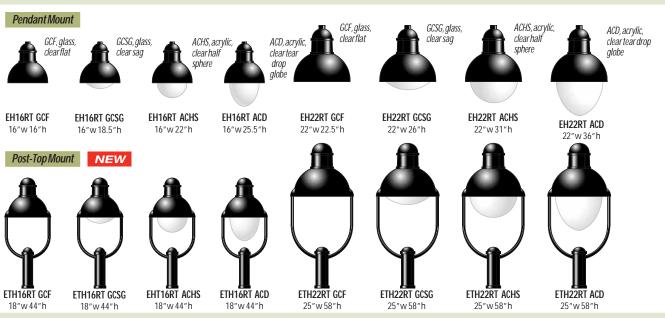




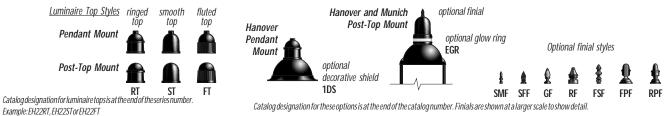




Hanover Series



Options



www.AntiqueStreetLamps.com

ANTIQUE Street Lamps

Contemporary Arms & Wall Brackets

EUROTIQUE®



Ordering Information

Intended Use

Eurotique® arms are designed for aesthetically integrating single or multiple luminaires with Eurotique® posts. A matching family of wall brackets provides the ability to integrate building-mounted luminaires with post-mounted site lighting. A wide variety of styles are available to meet the needs of applications such as street lighting, downtowns, parks, public areas and mall interiors.

Features

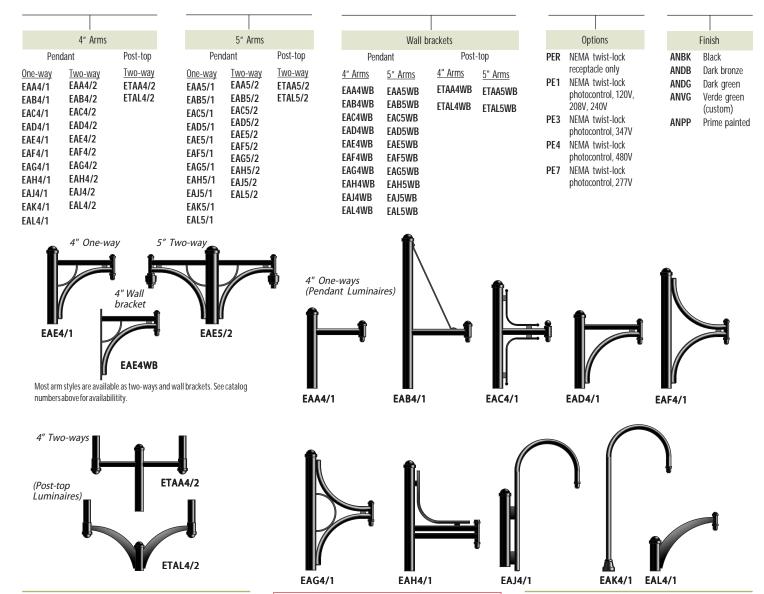
Arms are available in two sizes. The 4" diameter arms are for the Copenhagen, Stockholm, small Hanover and small Munich Series luminaries. The 5" diameter arms are for the large Hanover and large Munich Series luminaries.

Materials – All cast parts are constructed of heavy-wall, low copper, cast aluminum. Arm tubing, center spools and wall bracket back plates are fabricated from extruded or formed aluminum. Hardware and fasteners are stainless steel material. Standard exterior hardware is of a tamper-resistant design.

Installation – The arms are designed to slip-fit a 3.375" dia. pole top tenon (4" arms) or 4.375" dia. pole top tenon (5" arms) and attach with (8) socket style set screws. The center finial and arm finial are removable to allow for wiring access. Wall brackets are provided with four or six ½" diameter holes for mounting to the wall. Wall bracket mounting hardware is not provided. Arms and wall brackets are provided with swivel adapters for luminaire mounting. Optional twist-lock photo control is installed at center spool top instead of the finial.

Finish – The arms and wall brackets are finished with a premium polyester powder coating. Standard colors are black, dark bronze or dark green. Consult factory for special custom colors or verde green finish.

Example: EAG5/2 PER ANBK



Eurotique® poles provide a contemporary style appearance that is perfectly suited for use with Eurotique® luminaires and arms. Poles are available in 10-foot to 30-foot heights.

Features

Poles are available in either aluminum or steel. Poles are of one-piece construction with integral anchor/base plate and two-piece base cover or one-piece cast aluminum base with interior anchor bolts. Aluminum poles are available as round, straight, 4" and 5" or as round stepped, 4"/6.63" and 5"/7". Steel poles are available as round, straight, 4" and 5" or as round stepped, 5"/7".

Materials – Aluminum poles are manufactured of extruded aluminum, with cast aluminum anchor plate or base, base cover and handhole cover or access door. Steel poles are manufactured of

steel tubing with steel anchor plates and cast aluminum base cover and handhole cover. Hardware and fasteners are stainless steel material. Standard exterior hardware is of a tamper-resistant design.

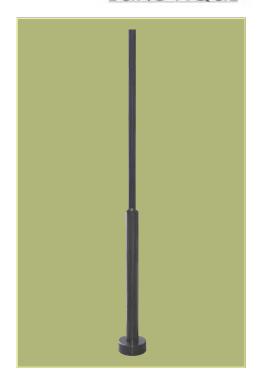
Installation – The 4", 5" and 4"/6.63" poles are supplied with four ¾" diameter, L-type anchor bolts. The 5"/7" aluminum poles are supplied with four 1" diameter, L-type anchor bolts. The 5"/7" steel poles are supplied with four 1¼" diameter, L-type anchor bolts. A hand-hole with cover is provided in the lower shaft for wiring access for EPAX and EPSX series poles. PXPD18 is provided with access door. Integral tenons are provided as required for mounting Eurotique® arms and luminaires.

Finish – The poles are finished with a premium polyester powder coating. Standard colors are black, dark bronze or dark green. Consult factory for special custom colors or verde green finish.

Example: **EPSX 18 S4 3-3/8T11 ANBK**

Contemporary Poles

EUROTIQUE"



Ordering Information

Pole series	Height	Shaft type
Aluminum EPAX PX PD18	10 12 14 16 18	4" Poles \$4
Steel EPSX	16 18 20	4" Poles \$4

Aluminum EPAX	20 22	4/6.63" Poles \$4\$6
Aluminum EPAX PX PD18 Steel EPSX	16 18 20	<u>5" Poles</u> S5
Aluminum EPAX	20 22 24 26	5/7" Poles \$5\$7
Steel EPSX	22 24 26 28 30	5/7" Poles \$5\$7

· ____

Tenon		Finish
4" Poles 3-3/8T11 Standard tenon 3-3/8T8 Tenon for arm EAR 0T0 Tenon for arm EAR	 ANBK ANDB ANDG ANVG	Black Dark bronze Dark green Verde green (custom) Prime painted

5" Poles 4-3/8T11

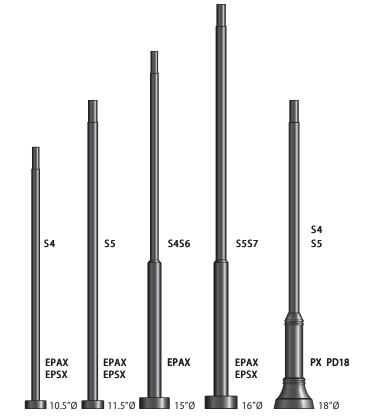
4-3/8T8

0T0

Standard tenon

Tenon for arm EAL5

Tenon for arm EAK5



HYDREL

Architectural Lighting



Hydrel® was launched with a mission: to make the most reliable underwater lighting

the world has ever seen. This was no small task, since water is a hostile environment for lighting. But we accomplished it, and in the ensuing decades as we've moved up onto land, the Company has continued to build its expanding lines of outdoor lighting products the same way. Rugged. Impenetrable. Uncommonly reliable. One thing is certain: Hydrel products are engineered to outperform anything on the market. It is our DNA, and customers couldn't be happier.



www.hydrel.com



Hydrel has always been the "tough environment" lighting company. It's no wonder. We earned our reputation the hard way – under water. And we excelled next with in-grade solutions, where the surroundings are only a fraction more hospitable.

The focus has been on night lights.

These high-performance systems

continue to define Hydrel,

remaining at the heart of our

offering.

However, in recent years architectural floodlights, accent lights and specialized lighting designs have brought Hydrel out into full view. This leads us to the next significant advance in broadening our reputation – the launch of a completely innovative approach to site lighting design.

Our objective is to develop a comprehensive range of outdoor luminaires integrated by singular design signatures. As this concept comes to life, architects and lighting designers will be equipped, for the first time, to realize a high level of aesthetic continuity across all segments of site lighting.



HYDREL







CONTENTS

G2™ Series	596
Building Mounted	597
Pole Mounted	599
Bollards	600
Floodlighting	601



611 Site Lighting



In-grade Lighting 614



Accent Lighting 623



Step Lighting 632



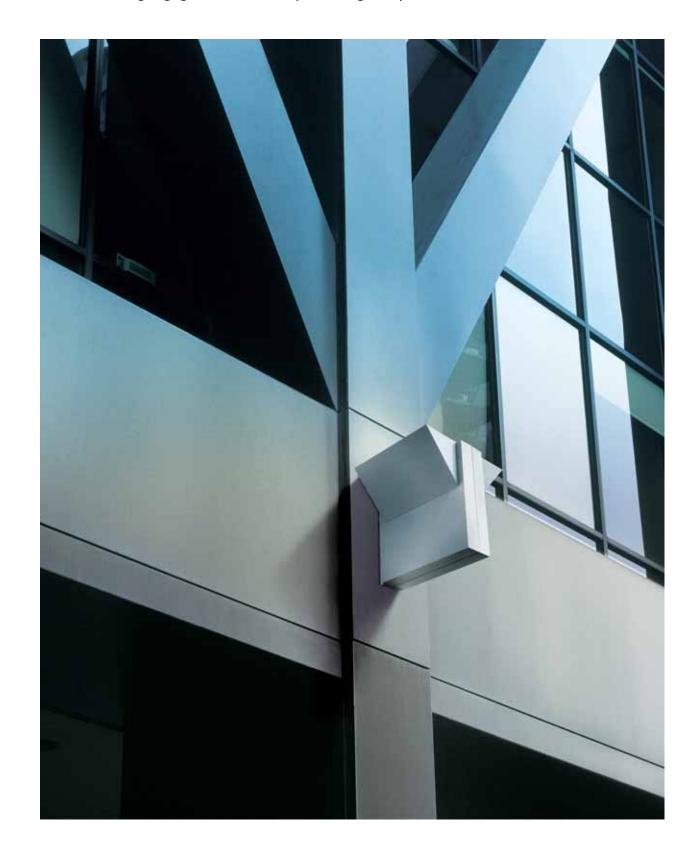
Border Lighting 635

Mounting 639

Underwater Lighting 644

G2™ Family

 62^{TM} Merging geometric shapes, elegantly formed.



The G2™ Block Series may be applied over entries, within entries, up or down, on all building sides or in concert with G2™ Edge or G2™ Plate products. Lighting distributions are symmetric or asymmetric and project in short, medium and long configurations.

G2[™] Block

Building Mounted

Material

Die-cast aluminum housing and door. Fixture fully sealed with silicone gasketing. All hardware for door and mounting accessories are stainless steel. Suitable for wet locations.

Lamp

175W max. metal halide MAX. Other lamp types available (see ordering guide).

Distribution

Area: IES Type II, IES Type III, IES Type IV, IES Type V.

Reflector

High purity anodized specular, semispecular or patterned lighting sheet in various configurations providing optimum optical performance. Reflectors are interchangeable. Reflectors include both segmented and precision-formed types to

provide maximum performance and uniformity. All HID sockets are porcelain medium-base or G12 based, pulse rated for 4KV.

Lens

Molded crowned tempered borosilicate.

Mounting

Surface mounted over recessed junction box or conduit stub-out.

Integrally mounted. Rated for -20°C starting temperatures.

Finish

Polyester powder coated in a range of textured or semi-matte gray tone or earth tone colors.

Listings

U.L., C.U.L., IP65, IES full cut-off, suitable for wet locations.

Ordering Information

Example: G2BD DN 150M 277 SR2 FLC OLS SF LPI DNAT

Product Orio	entation Lamp type	e Voltage	Distribution	Lens	Α	ccessories		Option	La	mp
	I Down <u>Metal halid</u>	_	SR2 IES Type II	FLC	<u>Internal</u> ²		Photo con			amp .
G2BW Block wedge UF	P Up 70M 100M	208 240	SR3 IES Type III SR4SC IES Type IV	FLC5	IBS	Internal backlight shield	PE <u>Fusing</u>	Photo cell	ı	ncluded
	150M	277	SR5S IES Type V		OLS	Obscuring lens	<u>rusing</u> DF	Double fuse ³		F
	175M	347			CFAMB	Color filter amber	SF	Single fuse ³		Finish
	Ceramic metal				CFBLU	Color filter blue	<u>Ballast</u>		DBLB	Designer bl
	70CM	MVOLT ¹			CFGRN	Color filter green	GEB		DCDD	textured
	70CMT6	TB			CFRED	Color filter red		electronic ballast ⁴	עאכע	Dark gray, textured
	100CM						MLEBAD		DNAT	
	150CM						MLEDAD	dimming	DIA	aluminum,
	150CMT6							ballast ^{4,5}		textured
	<u>High pressure so</u> 70S	<u>oaium</u>					BLS	Bi-level	DWHG	Designer wh
	703 150S							switching ⁶		textured
	Fluorescen	nt .							DDBT	
	26TRT	<u>IL</u>								textured
	32TRT									Rust, textur
	42TRT								DSST	Sandstone,
	721111									textured

NOTES:

- 1 MVOLT is standard on all fluorescent and metal halide lamps with electronic ballast option.
- 2 Accessories are mutually exclusive. Choose one.
- 3 SF only valid with 120V, 277V or 347V. DF only valid with 208V or 240V
- 4 Electronic ballasts only are available with metal halide (150W max), fluorescent and MVOLT bal-
- 5 0-10V dimmer required (by others).
- 6 BLS only available for 175M and 150S.



Consistent with LEED* goals & Green Globes™criteria for light pollution reduction

Down (DN) orientation only.

7-3/4 (197) 7-1/2 (191) 7-1/4 (184) −R 6-1/8 (156) ─ 12 Diamete (305) G2BW (203) (203) 5-3/4 (146) 8 (203) 12-1/4 (311) www.hydrel.com

G2BD





G2™ Family

G2[™] Edge

Building Mounted

Intended Use

G2EDGE is uniquely suited for mounting to columns and mullions. Choice of small-scale dome or wedge shaped enclosures house a wide range of high-performance optical systems for safe and secure perimeter lighting, or accent or wallwash lighting effects.

Material

Die-cast aluminum housing and door. Fixture fully sealed with silicone gasketing. All hardware for door and mounting accessories are stainless steel. Suitable for wet locations.

175W max. metal halide MAX. Other lamp types available.

Distribution

Area: IES Type II, IES Type III, IES Type

IV, IES Type V. flood: narrow spot, spot, flood, wide flood, wall wash.

Reflector

High purity anodized specular, semispecular, or patterned lighting sheet in various configurations providing optimum optical performance. Reflectors are interchangeable. Reflectors include both segmented and precision-formed types to provide maximum performance and uniformity. All HID sockets are porcelain medium-base or G12

based, pulse rated for 4KV.

Lens

Molded crowned tempered borosilicate.

Mounting

Surface mounting over recessed, compact junction box or conduit stub-out.

Integrally mounted. Ballasts are 100% factory tested,

and rated for -20°C starting temperatures.

Finish

Polyester powder coated in a range of textured or semi-matte gray tone or earth tone colors.

Listings

U.L., C.U.L., IP65, IES full cut-off, suitable for wet locations.

Lamp

included

Finish

textured

textured

textured

textured

Dark bronze,

Rust, textured

Custom finish

Gloss finish on

dome/wedge

Polished finish on dome/wedge⁹

Sandstone, textured

Designer black.

Dark gray, textured

Natural aluminum,

Designer white,

LPI Lamp

DBLB

DSPD

DNAT

DWHG

DDBT

DSPF

DSST

/ GLS

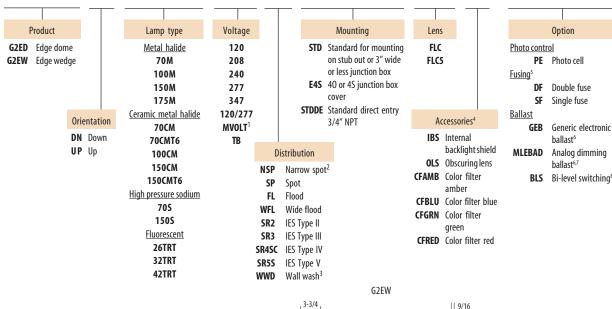
/ POL

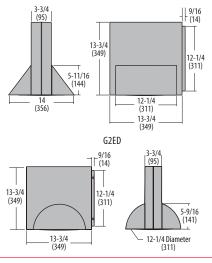
Œ

Optional two-tone finish

Ordering Information

Example: G2EW DN 150M 277 SR2 STD FLC OLS SF LPI DNAT





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NOTES:

- 1 MVOLT is standard on all fluorescent and metal halide lamps with electronic ballast option
- 2 NSP only available with 70CMT6 and 150CMT6.
- WWD includes 14" extended wall mount, consult factory.
- Accessories are mutually exclusive. Choose one
- SFonly valid with 120V, 277V, or 347V. DF only valid with 208V or 240V. DF only valid with 208V o
- Electronic ballasts only are available with metal halide lamps, 150W max.
- 0-10V dimmer required (by others).
- BLS only available for 175M and 150S.
- Not available with G2EW.



Consistent with LEED® goals & Green Globes™criteria for light pollution reduction

Down (DN) orientation only



NEW

Pole mounted dome or wedge shaped enclosures house a range of high-performance optical systems for path, plaza and parking areas.

G2[™] Xtend

Pole Mounted

Material

Die-cast aluminum housing and door. Fixture fully sealed with silicone gasketing. All hardware for door and mounting accessories are stainless steel. Suitable for wet location.

Lamp

T-6, G12 to 150W; E-17 med. base to 175W.

G-12, medium-base or E27 base.

Distribution

Area: IES Type II, IES Type III, IES Type IV, IES Type V.

Reflector

High purity anodized specular, semispecular, or patterned lighting sheet in various configurations providing optimum optical performance. Reflectors are interchangeable. Segmented reflectors provide maximum performance and uniformity. All HID sockets are porcelain medium-base or G12 based, pulse rated for 4KV.

Lens

Molded crowned tempered borosilicate.

Mounting

Luminaire mounts to 4" square or 4" round pole standard aluminum. A custom 3-3/4" square design pole with center line reveals also available.

High power factor magnetic ballast standard. Electronic ballast also available. Ballast rated for low starting temperatures.

Finish

Polyester powder coated in a range of textured or semi-matte gray tone or earth tone colors.

Weight

29.5 lbs.

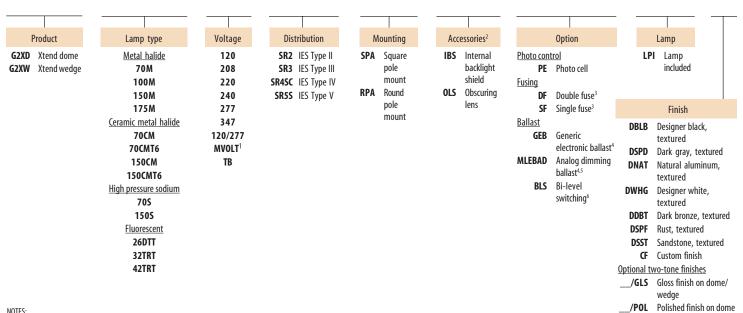
EPA

1.45 Listings

U.L., C.U.L., IP65, IES full cut-off, suitable for wet locations.

Ordering Information

Example: G2XW 150M 277 SR2 SPA OLS SF LPI DNAT

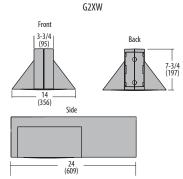


NOTES:

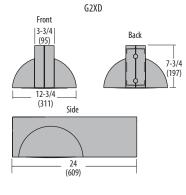
- 1 MVOLT is standard on all fluorescent or metal halide lamps with electronic bal-
- 2 Accessories are mutually exclusive. Choose one
- SF only valid with 120V, 277V, or 347V. DF only valid with 208V or 240V. Electronic ballasts only are available with
- metal halide lamp types, 150W max. 5 0-10V dimmer required (by others).
- 6 BLS only available for 175M and 150S.

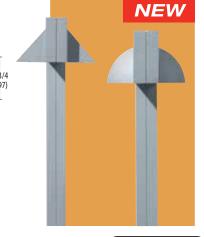


nt with LEED® & Green Globes™criteria for light pollution reduction



Note: see specification sheet for more detailed dimensions.







G2™Family

G2[™] Louver Bollard

Intended Use

The G2™ Bollard Series is designed to work in building perimeter areas and public spaces completing a wide variety of architectural styles. The G2™ Bollard fixture offers an unmatched impact-resistant mounting and leveling design ensuring life-long performance.

Material

Copper-free aluminum A360.

Lamp

Fluorescent: 42W max., triple tube. HID: 70W max. G12, 100W max. E17.

Ballast

Integrally mounted core and coil, electronic ballast with low starting

temperature.

Light Options

Choose between patent-pending LED color wash or light wash. The LED color wash option adds vibrant color to the bollard and creates the opportunity for customized applications. The optional light wash

reflector illuminates the bollard base by redirecting light from main lamp source.

Fasteners

Stainless steel.

Finish

Polyester powder coated in a range of textured semi-matte.

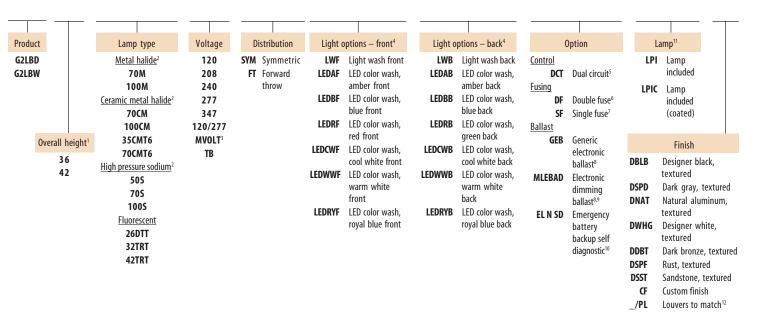
Listinas

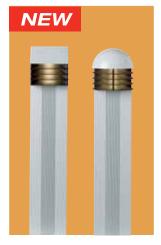
U.L., C.U.L., IP65, suitable for wet locations.

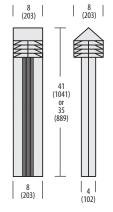
IFS cutoff.

Ordering Information

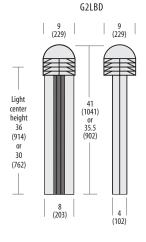
Example: G2LBD 36 100M MVOLT SYM LEDBF LEDCWB DCT GEB LPIC DNAT







G2LBW



NOTES

- 1 Bollard heights are nominal (shown in inches).
- All lamps (excluding 35CMT6 and 70CMT6) are coated as recommended unless LPI is specified.
- 3 MVOLT standard with fluorescent lamps and metal halide lamps with electronic ballast option.
- 4 Light options are mutually exclusive. Choose one per side. For single circuit wiring, LED light option not available with MVOLT or electronic ballast option operating at 277V, or with 347V. For DCT dual circuit option, secondary LED voltage required to be 120V (for primary voltages: 120V, 208V, 347V, MVOLT) or 240V (for primary voltages 240V or 277V).
- 5 DCT available with LED color wash option only.

- 6 SFavailable with 120V, 277V or 347V on HID fixture only.
- 7 DF available with 208V or 240V on HID fixture only.
- 8 Electronic ballast options available with metal halide lamps only.
- 9 0-10V remote analog dimmer system required (by others).
- 10 Available with fluorescent only.
- 11 LPIC recommended for E17 and ED17 lamps. Not available with fluorescent, 35CMT6or70CMT6HIDlamps.
- 12 Standard louver finish: matte black top, high gloss white bottom unless __/PL is chosen. __/PL is not recommended for DWHG white or other light color finishes due to increased visible glare and reduced fixture cutoff.



www.hydrel.com

The 7000 Series floodlight is a compact, high-performance outdoor fixture used for façade and landscape lighting.

7000

Material

Die-cast aluminum housing and door.

Lens

Flat tempered glass.

Lamp

Incandescent: T-4, mini-can to 100W. Fluorescent: TRT triple-tube lamps to 42W. HID: T-6, G12 to 70W, E-17 medium-base to 70W; elliptical, E-27 to 80W

NOTE: All lamps must be rated for "Universal Burning Position" because fixture tilt changes lamp orientation.

Socket

Incandescent: mini-can screw base. Fluorescent: 4-pin, GX24Q base. HID: G-12, medium, or E27 base pulserated 4KV.

Reflector

120/277

MVOLT2

TB

High purity anodized specular, semispecular or patterned lighting sheet in various configurations designed to

Distribution

TSP Tight spot

spot³

FL Flood⁴

MFL Medium flood³

horizontal

NHSP Narrow

provide maximum performance and uniformity.

Electrical Components

Integrally mounted ballasts rated for low temperatures.

Finish

Polyester powder coated in a range of textured or semi-matte finishes.

Mounting

Knuckle mount

Yoke mount

Fasteners

Stainless steel.

YM

Weight

20 lbs. EPA

0.64

Listings

U.L., C.U.L., IP65, suitable for wet locations.

Ordering Information

Product Lamp type Voltage 7000 Incandescent¹ 120 100Q 208 Fluorescent 240 26TRT 277 32TRT 347

Metal halide
70M
100M

42TRT

Ceramic metal halide

70CM 35CMT6 70CMT6

High pressure sodium

35S1

50S 70S

Seepage 610.

Mounting accessories

| Internal | ISS | Internal source shield | IHL | Internal honeycomb | Iouver^{6,7} |

Accessories

Example: 7000 70M 120 FL YM SMSA18 BD LPI BL

CFAMB Color filter amber⁷
CFRED Color filter red⁷
CFBLU Color filter blue⁷

CFGRN Color filter green⁷ External⁸

BD Barn doors

GS Glare shield

Finish

BL Black
BZ Bronze

Lamp

included

LPI Lamp

DDB Dark bronze
DNA Natural aluminum

GN Green GR Gray

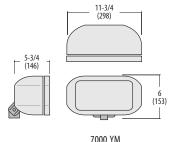
SND Sand STG Steel gray TVG Terra verde green

WH White

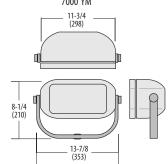
CF Custom

NOTES:

- 1 Available in 120V only.
- 2 MVOLT is the standard voltage for fluorescent lamps.
- 3 Available with T6 and T4 lamps only.
- $4\quad \text{Available with E17 and TRT lamps only}.$
- 5 Available with TSP and MFL distributions only.
- $6 \quad \text{Available with FL distribution only}.$
- 7 Not available with NHSP.
- 8 Accessories are mutually exclusive. Chooseone.
- * Mounting not included.



7000 KM



www.hydrel.com





150CMT6 70CMTD 150CMTD High pressure sodium 70S 100S 150S

7100

Intended Use

The 7100 Series floodlight is a compact, high-performance outdoor fixture used for façade and landscape lighting.

Material

Die-cast aluminum housing and door.

Lamp

Incandescent: T-3, RSC Quartz to 500W, T-4, minican to 250W. HID: T-6, G12 to 150W, E-17 medium-base to 175W; elliptical, E-27 to 150 W.

NOTE: All lamps must be rated for "Universal Burning Position" because fixture tilt changes lamp orientation.

Socket

Incandescent: recessed single contact (RSC), minican screw base. HID: G-12, medium or E27 base pulse-rated 4KV.

Reflector

High purity anodized specular, semispecular, patterned lighting sheet in various configurations designed to provide maximum performance and uniformity.

Lens

Flat tempered glass standard.

Mounting

Knuckle or yoke mounted (180° vertical, 360° rotation); fixed mounted for ceiling or wall. Knuckle mount: die-cast aluminum with 3/4" NPT galvanized nipple standard. Yoke mount: aluminum with 10 ft of 18-3 STW flexible cord polymer yoke mount caps are black finish.

Electrical Components

Integrally mounted ballasts rated for low starting temp.

Finish

Polyester powder coated in a range of textured or semi-matte finishes.

Fasteners

Stainless steel.

Weight

37 lbs.

EPA

1.27

Listings

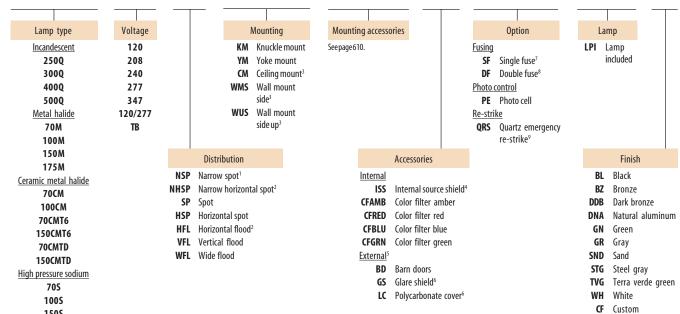
U.L., C.U.L., IP65, suitable for wet locations.

Ordering Information

Product

7100

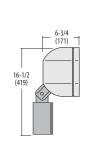
Example: 7100 150M 120 VFL KM WMSA BD SF LPI BL

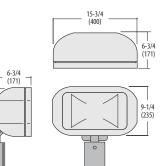


15-3/4 (400)

18-1/2 (470)

7100 KM





7100 YM

NOTES:

- 1 Available with 70 CMT6, 150 CMT6 and 250 Q lamps only.
- 2 Not available with RSC base lamps.
- 3 Not available with mounting accessories.
- 4 Not available with VFL or WFL distributions.
- Accessories are mutually exclusive. Chooseone.
- 6 Not available with CM mounting.
- $7 \quad \text{Available with 120V, 277V or 347 HID only}.$
- 8 Available with 208V or 240V HID only.
- 9 Not available with NSP, WFL and HSP distribution.
- Mounting not included.



The 7200 Series floodlight is a high-performance fixture used for façade and area lighting.

7200

400W max.

Material

Die-cast aluminum housing and door.

Lamp

HID to 400W.

NOTE: All lamps must be rated for "Universal Burning Position" because fixture tilt changes lamp orientation.

Porcelain mogul base rated 5KV.

Reflector

High purity anodized specular, semispecular, or patterned lighting sheet in various configurations designed to provide optimum optical performance. Reflectors are interchangeable using four screws and quick-release electrical connectors (with the exception of spot reflectors). Reflectors include both segmented and hydroformed types to provide maximum performance and uniformity.

Lens

Flat tempered glass.

Mounting

Knuckle or yoke mounted (180° vertical, 360° rotation) on pole, stanchion, wall or tenons.

Electrical Components

Integrally mounted ballasts rated for low temperatures.

Finish

Polyester powder coated in a range

of textured semi-matte finishes.

Fasteners

Stainless steel.

Weight

50 lbs. EPA

3.00

Listings U.L., C.U.L., IP65, suitable for wet

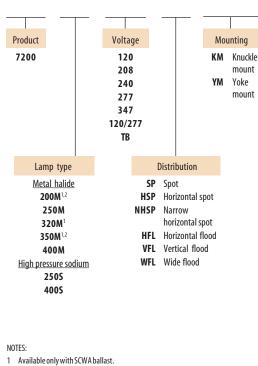
locations.

Ordering Information

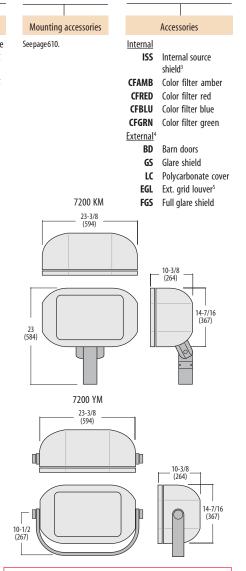
Example: 7200 400M 277 WFL KM EWM24 GS LPI BZ

Lamp

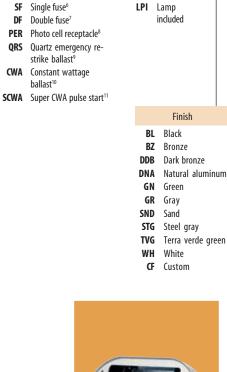
Options



- 2 200M and 350M are not available with SP distribution.
- 3 Not available with WFL distribution.
- 4 Accessories are mutually exclusive. Choose one.
- 5 EGL accessory available in matte black finish only.
- Available with 120V, 277V or 347V HID only.
- 7 Available with 208V, 240V or 480V HID only.
- 8 NEMA twist lock receptacle only, photo control by others and requires mounting accessory
- 9 Not available with TBV, NHSP, SP, WFL or
- 10 Available only with 250M or 400M.
- 11 Available only with 200M, 250M, 320M, 350Mor400M.



www.hydrel.com





Architectural Floodlight

7200

1000W

Intended Use

The 7200 Series flood is designed for use in façade and area lighting.

Material

Die-cast aluminum housing and door.

Lamp

HID to 1000W.

NOTE: All lamps must be rated for "Universal Burning Position" because fixture tilt changes lamp orientation.

Socket

Porcelain mogul base rated 5KV.

Reflector

High purity anodized specular, semispecular or patterned lighting sheet in various configurations to provide optimum optical performance. Reflectors are interchangeable using four screws and quick-release electrical connectors (with the exception of spot reflectors.) Reflectors include both segmented and hydroformed types to provide maximum performance and uniformity.

Lens

Flat tempered glass.

Electrical Components

Externally mounted ballasts rated for low starting temp. Ballast box must be specified.

Finish

Polyester powder coated in a range of textured or semi-matte finishes.

Fasteners

Stainless steel.

Weight

40 lbs. - Head only, does not include ballast.

EPA

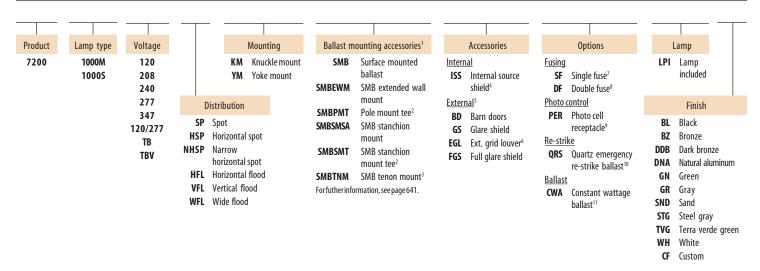
3.00

Listinas

U.L., C.U.L., IP65, suitable for wet locations.

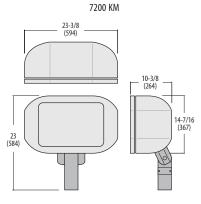
Ordering Information

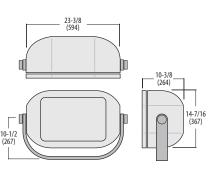
Example: 7200 1000M 120 VFL KM SMB GS LPI BZ



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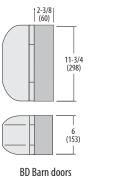


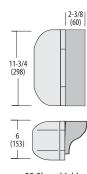
7200 YM

NOTES:

- If not selected, fixture will ship less bal-
- 2 Two fixtures per mount.
- 3 For use with KM only
- Not available with WFL distribution.
- Accessories are mutually exclusive. Choose one.
- EGL available in matte black finish only.
- Available with 120V, 277V or 347V only.
- Available with 208V, 240V or 347V only.
- NEMA twist lock receptacle only, photo control by others.
- 10 Not available with TBV, NHSP, SP, WFL or HSP distribution.
- 11 Available with 1000M only.



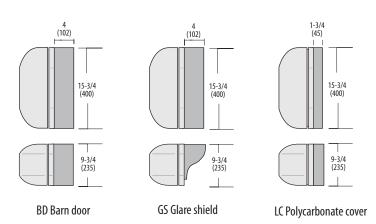


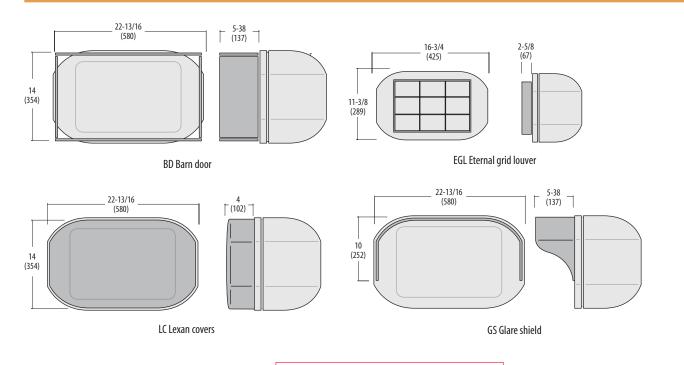


GS Glare shield

7100

7200





www.hydrel.com

8100

Material

Die-cast, copper-free aluminum (A360) housing and doors.

ED-17 medium-base to 175W, T6 G12 base to 150W, Quartz T4 mini-can base to 250W.

Reflector

High purity anodized specular, semispecular or patterned lighting sheet in various configurations to provide optimum optical performance and uniformity.

Intended Use

The 8100 Series is a high-performance compact precision lighting system that provides consistent styling with a variety of light distributions. Multiple optical systems provide a wide range of precise light control. For use in façade, area and pathway lighting.

Flat tempered glass for maximum resistance to impact and thermal

Mounting

Lens

AWM: cast aluminum wall mount plate for mounting over 4-0/4-S recessed J-Box. AWMDE: surface conduit direct entry available for through-branch wiring, 3/4" NPT drilling standard. PM: steel mounting plates for attachment to pole using a unique block/receiver assembly. The block bolts to a pole and engages the receiver within the 8100 integral arm. A single threaded locking fastener secures the fixture to pole. YM: 1-1/ 2" wide aluminum voke, 15° up/down adjustment and stainless steel locking hardware allows fixture head to easily be aimed and fixed in place. Fixtures are provided with a minimum of 10 ft of 18/3 ST-W cord for power supply.

Ballast

High power factor magnetic core and coil standard. Flectronic ballast optional.

Finish

Textured TGIC powder coat polyester finish.

EPA

1.41

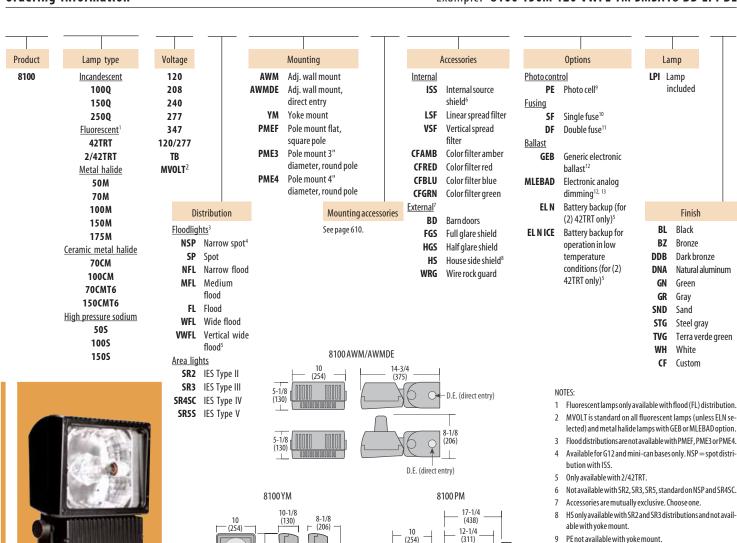
Weight 26.5 max.

Listings

U.L., C.U.L., IP67.

Ordering Information

Example: 8100 150M 120 VWFL YM SMSA18 BD LPI BL



- MVOLT is standard on all fluorescent lamps (unless ELN selected) and metal halide lamps with GEB or MLEBAD option.
- Flood distributions are not available with PMEF, PME3 or PME4.
- $A vailable for G12 and mini-can bases only. \, NSP = spot \, distri-$
- $6 \quad \text{Not available with SR2, SR3, SR5, standard on NSP and SR4SC}.$
- Accessories are mutually exclusive. Choose one
- HS only available with SR2 and SR3 distributions and not avail-
- 10 SF is available with 120V, 277V or 347V on HID only.
- 11 DF is available with 208V, 220V or 240V on HID only.
- 12 Electronic ballast only are available with metal halide lamps 150W max. and MVOLT voltage.
- 13 0-10V dimmer not included

The 8100 EO Series is a high-performance emergency compact fluorescent lighting system. Recommended applications: Areas along the path of egress, educational, athletic fields, health care and commercial facilities needing standby of emergency illumination. For use in façade, area and pathway lighting.

Operation

When the normal supply of AC power fails, the 8100 EO instantly switches to the emergency mode, keeping two compact fluorescent lamps illuminated for a minimum of 90 minutes at full output. When AC power is restored the emergency system returns to the normal mode. Ambient temperature -20°C to +55°C with ICE option.

Material

Die-cast, copper-free aluminum

(A360) housing and doors.

Lamp

Two 42W Gx24q-4 base compact fluorescent lamps.

Mounting

YM: 1-1/2" wide aluminum yoke and stainless steel locking hardware allows fixture head to easily be aimed and fixed in place. Fixtures are provided with a minimum of 10 ft of 18/3 ST-W cord for power supply. AWM: cast aluminum wall mount plate for mounting over 4-0/4-S

recessed J-Box. 15° up/down adjustment. AWMDE: surface conduit direct entry available for throughbranch wiring, 3/4" NPT drilling standard. PM: steel mounting plates for attachment to pole using a unique block/receiver assembly. The block bolts to a pole and engages the receiver within the 8100 integral arm. A single threaded locking fastener secures the fixture to pole.

Illumination Time

Total Lumen Output

6400 lumens.

Test Switch Single pole.

Charging Indicator Light

LED.

Recharge Time 24 Hours.

Input Voltage 120V or 277V, 60Hz. 8100

Emergency Only

EPA 1.5

Finish

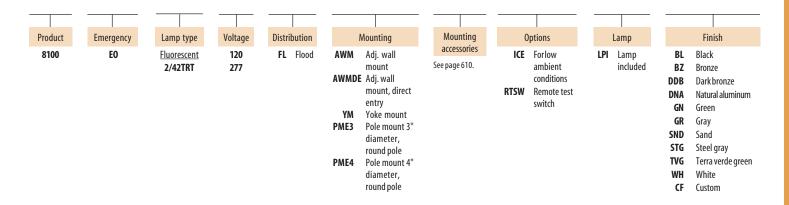
Textured TGIC powder coat polyester finish.

Listings

U.L., C.U.L., IP67.

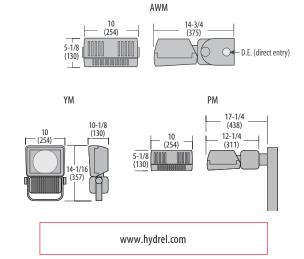
Ordering Information

Example: 8100 EO 2/42TRT 120 FL YM LPI BL



NOTES:

OPERATION: When the normal supply of AC powerfails, the 8100E0 instantly switches to the emergency mode, keeping two compact fluorescent lamps illuminated for a minimum of 90 minutes. When AC power is restored, the emergency system returns to the normal mode. Ambient temperature - 20°C to + 55°C with optional ICE technology. See www.hydrel.com for EO/AC options.





8200

Material

Die-cast, copper-free aluminum (A360) housing and doors.

Lamp

ED18, ED28 or T15 HID to 400-watt maximum. Mogul or E40 sockets.

Reflecto

High purity anodized specular, semispecular or patterned lighting sheet in various configurations to provide optimum optical performance and uniformity.

Intended Use

The 8200 Series is a high-performance precision lighting system that provides consistent styling with a variety of light distributions. Multiple optical systems provide a wide range of precise light control. For use in façade, area and pathway lighting.

Lens

Flat tempered glass for maximum resistance to impact and thermal shock.

Mounting

AWM: Cast aluminum wall mount plate for mounting over 4-0/4-S recessed J-Box. 15° up/down adjustment. AWMDE: Surface conduit direct entry available for throughbranch wiring, 3/4" NPT drilling standard. PM: Steel mounting plates for attachment to pole using a unique block/receiver assembly. The block bolts to a pole and engages the

receiver within the 8200 integral arm. A single threaded locking fastener secures the fixture to the pole. YM: 1-1/2" wide aluminum yoke and stainless steel locking hardware allows fixture head to be easily aimed and fixed in place. Fixtures are provided with a minimum of 10 ft of 18/3 ST-W cord for power supply.

Ballast

High power factor magnetic core and coil standard. Electronic ballast optional.

Finish

Textured TGIC powder coat polyester finish (see ordering guide for available colors).

EPA

1.45

Weight

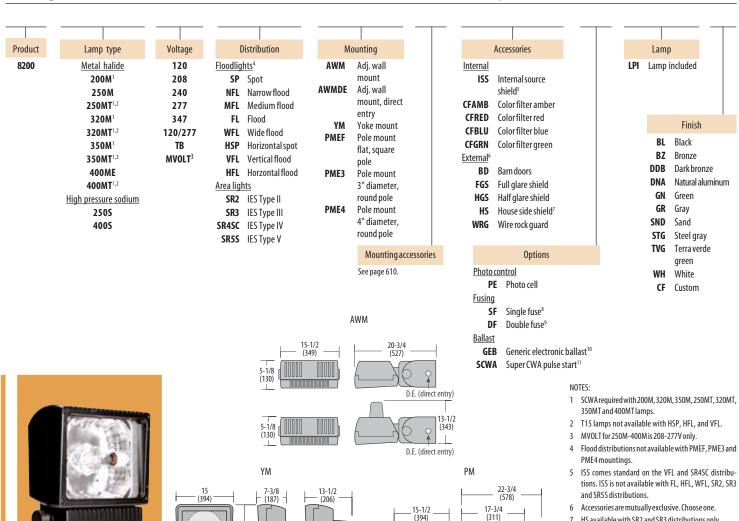
29.5 max.

Listings

U.L., C.U.L., IP67.

Ordering Information

Example: 8200 250M 120 SR2 AWM HS LPI SND



HS available with SR2 and SR3 distributions only.
 SFis available with 120V, 277V or 347V on HID only.
 DF is available with 208V, 220V or 240V on HID only.
 Electronic ballasts are only available with metal halide lamps 250 – 400W, 208-277V only.

 $11 \quad SCWA ballasts are only available with metal halide lamps.$

All Hydrel accessories are manufactured using the highest quality materials.

Accessories

BDBarn doors Four door set, each door mounts independently.



Full glare shield 360° full cutoff. FGS



HGS Half glare shield Cuts upward glare.



HS House side shield Cuts nuisance glare.





Wire guard Additional safety protection. WRG





Flood Mounting Options	No mounting accessories available	ARJB Architectural junction box	FJB Flush mount junction box	PMSA Polemount	PMT Pole mount tee	SMSA Stanchion mount ²	HYDSMDB Stanchion mount direct burial	TRJB Tree mount junction box	EWM Extended wall mount ²	TNM Tenon mount	PAR Pole arm round ²	PAS Pole arm square ²	PATR Pole arm twin round ²	PATS Pole arm twin square ^{1,2}	SMB SMB ballast ¹	SMBEWM SMB extended wall mount	SMBSMSA SMB stanchion mount	SMBSMT SMB stanchion tee mount	SMBPMT SMB pole mount tee	SMBTNM SMB tenon mount	SMBR SMB remote mount
7000 Series Adjustable																					
Knuckle Mount KM					1								1	1							
Yoke Mount YM					1								1	1							
7100 Series																					
Adjustable																					
Knuckle Mount KM					1								■ 1	1							
Yoke Mount YM					1								1	1							
Fixed																					
Wall Mount Side Down/Up WMS/WUS																					
Ceiling Mount CM																					
7200 Series 400-watt Adjustable																					
Knuckle Mount KM					1								1	1							
Yoke Mount YM					1								■ 1	1							
7200 Series 1000-watt																					
Adjustable																					
Knuckle Mount KM																		■ 1	1		
Yoke Mount YM																		1	1		
8100 Series																					
Adjustable																					
Yoke Mount YM		-			1								1	1							
Adjustable Wall Mount AWM/AWMDE																					
Fixed																					
Pole Mount PMEF, PME3, PME4																					
8200 Series																					
Adjustable Yoke Mount YM		_		_	1		_		_		_	_	1	1							
		-			1								1	1							
Adjustable Wall Mount AWM/AWMDE Fixed																					
Pole Mount PMEF, PME3, PME4																					
role Mount PMEF, PME3, PME4																					

NOTES:

- Two fixtures per mounting.
 Multiple lengths available, consult specification sheets.



Ideal for schools, parking garages, walkways, airports and stadiums.

HP3

Housing

One-piece aluminum die-casting having knockouts for 4-0 box entry or independent surface mounting integrated. Accessories include a cast aluminum splice box for direct conduit entry. This unit also is suitable for pole-, pendant- or basemounted applications.

Lens, Door

Molded from clear, UV stabilized polycarbonate for maximum impact resistance. The lens door seals with silicone gaskets providing bug and water tightness. The door is affixed to the housing with four stainless steel tamper-proof fasteners.

Lamp

Metal halide or high pressure sodium to 150W max.

Socket

Medium screw base.

Ballast

Magnetic, high power factor minimum starting temperature is -20°F (-29°C).

Mounting

To surface mount over recessed 4-0 box, or with recessed post, base or direct conduit. Also available as pendant mounted.

Listings

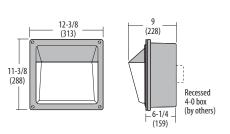
U.L., CSA, suitable for wet locations.

Example: HP3 150M 120 HFW SDE SF LPI BL

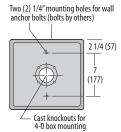
Ordering Information

Product	Lamp type	Voltage	шем	Distribution		Mounting	Ī		Options		Lamp		Finish
НРЗ	Metal halide 50M 70M 100M 150M ¹ High pressure sodium 50S 70S 100S 150S ¹	120 208 240 277 347 120/277 TB TBV	LHW LFW LRW HSC	wall Low horizontal wall Low forward wall Low left wall Low right wall High symmetrical ceiling High narrow ceiling	PN PN RC RS SC SN SP SS	D Plaster frame, direct entry S Plaster frame, splice box S Pole, single E Recessed, direct entry B Recessed, splice box E Surface, direct entry Surface, no box Pendant, single		SF DF PER QRS	Single fuse ² Double fuse ³ Photo control receptacle ^{1,4} Quartz emergency restrike	LP	I Lamp included	BL BZ DDB DNA GN GR SND STG TVG WH	Bronze Dark bronze Natural aluminum Green Gray Sand Steel gray Terra verde green White

- 1 Not available with RSB and RDE mounting
- 2 SF only available with 120V, 277V or 347 V, HID only.
- 3 DF is available with 208V or 240V, HID only.
- 4 NEMA twist-lock receptacle only. Photo control by others.



For dimensions on other mounting options, see www.hydrel.com





HP4

Intended Use

Ideal for schools, parking garages, walkways, airports and stadiums.

Housing

One piece, aluminum die-cast housing with integral knockouts for 4-0 box entry or independent surface mounting. Accessories include cast aluminum splice box for direct conduit entry. This unit also is suitable for pole-, post-, pendant- or base-mounted applications.

Lami

Metal halide or high pressure sodium to 250W max.

Socket

Mogul screw base.

Rallast

Magnetic high power factor. Starting temperature is -20°F (-29°C).

Lens

Unit is provided with a vandalresistant prismatic lens door. This clear polycarbonate lens creates a 180° lateral spread. Flat polycarbonate or tempered glass lens also available. The door seals with silicone gaskets preventing water or bug entry. Two tamper-proof fasteners hinge on stainless steel hardware. The door is easily removed for easy installation, maintenance and relamping.

Listings

Example: HP4 250M 120 SNB SF LPI BL

U.L., CSA, suitable for wet locations.

Ordering Information

Product Voltage Lamp type HP4 120 Metal halide 208 175M 240 200M^{1,2} 250M¹ 277 347 High pressure sodium 120/277 **100S** TB **150S** TBV 250S¹

Optional lenses³ FLG Flat lens tempered glass⁴ FLP Flat lens polycarbonate⁵

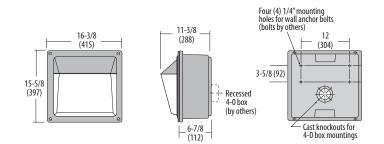
	Mounting
BMS	Base mount, single
PMS	Pole mount, single
RSB	Recessed, splice bo
SNB	Surface, no box
SPM	Pendant, single
SSB	Surface, splice box

		1
g		Options
ınt, single	SF	Single fuse ⁶
ınt, single	DF	Double fuse ⁷
, splice box	PER	Photo cell
no box		receptacle ^{1,8}
single	QRS	Quartz re-strike
splice box	SCWA	Super constant wattage ballast ⁹



CF Custom





 $For dimensions \ on \ other \ mounting \ options, see \ www.hydrel.com$

- 1 Not available with RSB mounting.
- 2 Requires SCWA ballast.
- 3 Will be used in place of standard lens.
- 4 175W maximum, reflector is not adjustable with this lens.
- 5 150W maximum, reflector is not adjustable with this lens.
- 6 SFonly is available with 120V, 277V or 347V on HID only.
- 7 DF only is available with 208V or 240V on HID only.
- 8 NEMA twist-lock receptacle only. Photo control by others.
- 9 Only available on metal halide lamps.



The 3100 Series bollard is a low-level area lighting luminaire, for use in walkways, plazas or pedestrian areas.

31103120

Material

Copper-free aluminum A360.

Lamp

Fluorescent: 42W max. Triple tube. HID: 70W max. G12, 100W max.

E17/elliptical

Low pressure sodium: T16, BY22d base.

Voltage

See ordering guide.

Ballast

Integrally mounted core and coil electronic ballast with low starting temperature.

Fasteners

Stainless steel.

Listings

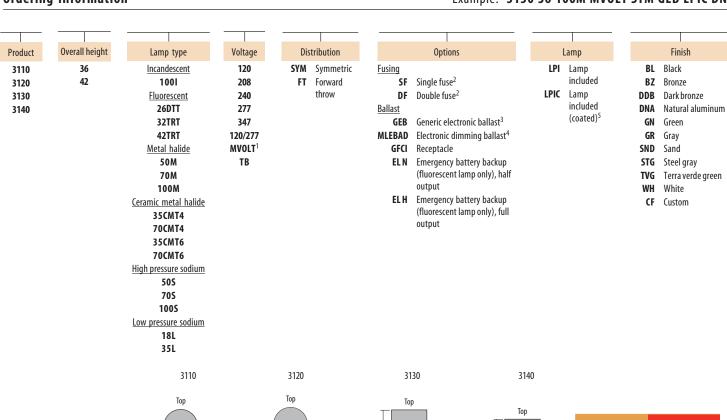
U.L., C.U.L., IP65, suitable for wet locations.

3140

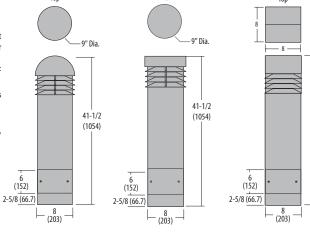
3130

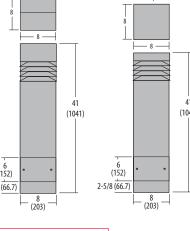
Ordering Information

Example: 3130 36 100M MVOLT SYM GEB LPIC DNA



- 1 MVOLT is standard on all fluorescent lamps or metal halide lamps with GEB or electronic ballasts.
- 2 SF only valid with 120V, 277V or 347V. DF only valid with 208V or 240V.
- 3 Only available with metal halide lamps and MVOLT voltage.
- 4 0-10V dimmer not included by others.
- 5 LPIConlyvalid with 50M, 70M, 100M, 50S, 70S, 100S, 100I.







9000

Intended Use

The 9000 Series fixtures represent the state-of-the-art in flush uplight construction. These multipurpose modular units are designed for flush mounting in planting areas or in concrete, and are used for illuminating building façades, walls, trees and similar applications.

Door Material

Cast aluminum or cast bronze that locks the lamp housing into the rough-in section with two tamper-proof fasteners.

Rough-In Section

Injection molded ABS, U.V. stabilized, impact and corrosion

resistant for use in all types of environments.

Lamp Module Housing

Stainless steel, sealed and purged of all moisture to 100°F (38°C). Electrical access to lamp module is done through submersible rated connector. Thermally protected.

Power Module

Sealed unit encapsulated in an engineered composite resin to eliminate all water entry.

Lamp Types

MR-16, PAR and R lamps with medium bases to 75W max. Lamp included.

Conduit Entries

1/2" NPT openings are available in the cast aluminum integral junction box. Suitable for through-branch wiring. This box has 17in³ of volume.

Listings

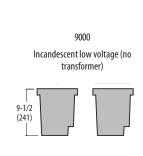
Example: 9000 B M50 120 FL FLC 12B RG

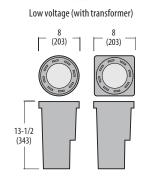
U.L., CSA., IP67.

Ordering Information

Product Material Voltage Distribution ³ Lens Conduit entry Finish Lamp type Accessories Lamp 9000 Aluminum Low voltage 12 VNSP Very **CLC** Convexlens 12B 1/2" NPT <u>Internal</u> LP Lamp BL Black bottom installed 9050 В Bronze M20 120 narrow IHL Internal honeycomb ΒZ Bronze 3/4" NPT spot CLF Convexlens M35 louver DDB Dark bronze bottom frosted Modularsupport M50 DNA Natural NSP Narrow FLC Flat lens rina M75 spot aluminum clear External⁴ GN Green P3636ILV SP Spot FLC5 Flat lens **GS** Glare shield P36501LV GR Gray NFL Narrow clear, 5° axial RG Rock guard⁵ SND Sand P36751LV flood spread Trims and rings STG Steel gray Incandescent² FLC10 Flat lens FL Flood BTR Bronze trim round6 TVG Terra verde P1660I clear, 10° tilt WFL BTS Bronze trim square⁷ Wide P1675I areen FLF Flat lens WH White flood STR Stainless trim round⁶ P2050I frosted Protective ring CF Custom P30751 VWFL Very round6 wide Protective ring flood square7







9050

- If 12V is selected, transformer will not be provided.
- 2 Only available in 120V.
- 3 All distributions are not available with all lamp types.
- 4 Accessories are mutually exclusive. Chooseone.
- 5 RG not valid with CLC or CLF lens.
- 6 Only available with 9000.
- 7 Only available with 9050.



The M9400 Series modular in-grade lights are multi-purpose units designed for flush mounting in a variety of substrates or materials. The M9400 fixtues are used to uplight architectural and landscape features.

M9400

Door Finish

Cast aluminum, cast bronze, cast bronze with stainless perforated trim insert or stainless steel. Round or square with two stainless steel captive fasteners that lock the lamp module into the rough-in section.

Rough-In Section

Injection molded polymer with integral junction box for branch wiring (410 ccm - 25 in³), U.V. stabilized, impact and corrosion resistant for use in all types of environments. Houses power module, lamp modules and finishing

components. Adjustment ring provides 360° aim rotation with keyed section to receive lamp module. Ring locks into position with stainless steel fasteners. RIS has a cylinder/vault configuration.

Lamp Module

Stainless steel, sealed and purged of all moisture with silicone gaskets, stainless steel clamp band and single fastener. Electrical connection to lamp module is done through submersible connector with goldplated contacts. Lamp included.

Double Lens

Includes 360° Aim-Lock™ module support ring, door assembly, tilt ring, and module indexing segment providing maintenance and relamping without re-aiming. The lamp module is suspended below the door lens in a surface adjustable, 15° tilt mechanism. The insulating air layer reduces surface temperatures. The lenses are clear tempered flat glass.

Power Module

Ballast is encapsulated in a customheat dissipating epoxy resin to

eliminate all moisture intrusion to the ballast. Provided with submersible rated cord/connector for connection to integral junction box and lamp module. HID ballasts are magnetic.

Electrical Entries/Junction Box

Two 1/2", 3/4", 1" NPT bottom openings. Box suitable for throughbranch wiring. Splicing volume is 25 in³ (410 ccm).

Listings

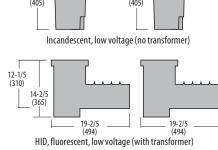
U.L., C.U.L., IP68.

Ordering Information

Example: M9420 BSP 70CMT6 MVOLT SP FLC 34B ISS RG GEB LP

Dro	duct		Material	Lamp type	Voltage	n	istribution 5			Lens		Accessories	\top	Lamp		Finish ¹⁸
M9410 M9420 M9430 M9440	Round single lens Round double lens	A B ASP BSP SS	Aluminum Bronze Aluminum with stainless perforation¹ Bronzewith stainless perforation¹ Bronze with brass perforation¹ Stainless steel	Low voltage ² M35 M50 M75 P3650ILV P3675ILV Incandescent ³ P1675I P2050I P3075I 75Q 100Q Fluorescent	12 120 208 240 277 347 MVOLT ⁴		Very narrow spot Narrowspot ⁶ Spot Medium flood ⁶ Narrowflood Flood Wide flood Very wide flood Wall wash distribution ⁷	FLC10 FLC20 FLCAS	fr CC FI CC fr	onvex lens clear onvex lens rosted lat lens clear lat lens clear, 5° xial spread lat lens clear, 0° tilt lat lens clear, 0° tilt lat lens clear, nti-slip lat lens frosted	CFBLU CFGRN CFRED WWL Externa GS	Internal honeycomb louver Internal source shield ⁹ Linear spread filter Color filter amber Color filter blue Color filter green Color filter green Wall wash louver ¹⁰		LP Lamp in- stalled	BL BZ DDB DNA GN GR SND STG TVG	Black Bronze Dark bronze Natural aluminum Green Gray Sand Steel gray
				18TRT 26TRT						Conduit entry	LS RG	Light shield Rock guard ¹²		Option	5	
				32TRT Ceramic metal halide 35CMT4 35CMT6 70CMT4 70CMT6 P2035CM P3035CM P3070CM			M9410 M9420	12 34 34 1	2S 4B 4S	1/2" NPT bottom 1/2" NPT side 3/4" NPT bottom 3/4" NPT side 1" NPT bottom M9430 M9440	Trims ¹¹ BTR BTS STR STS	Bronze trim round Bronze trim square Stainless trim round Stainless trim square		B Electronic	se ¹⁴ ballast ¹⁶	J
2 If 12Vi provid 3 Only a 4 MVOL and m ballas 5 All dist types.	vailable in 12 T is only availa netal halide la its. tribution nota available with	ansforme OV. able with nmps wit vailable v	erwill not be fluorescent h electronic with all lamp	11 Accessories are mavailablewith SSd beordered togethe 12 RG is not valid with 1 HID only. 14 DF available with 2 HID only. 15 Only available with voltage. 16 Standard on CMTA	oor. Only RG and er. n CLC or CLF lenso 20V, 277V or 34: 108V, 220V or 240 n HID lamps and N	GS can es. 7V and OV and	15-9/ (405 12-1/5 (310))	esce	15-9/1((405)						Tri I

- cent lamps.
- 7 Only available with T4 and fluorescent lamps.
- 8 Only available with fluorescent lamps.
- 9 Not available with PAR, MR or fluorescent
- 10 Only valid with WWD distribution.
- 16 Standard on CMT4 lamps.
- 17 Foruse with 0-10V analog dimmer (by others). Additional electrical conductors are $required. \, Consult \, Hydrel \, for \, details.$
- 18 Standard finish is unpainted unless specified; only available on aluminum





M9700

Door Material

Cast aluminum, cast bronze, cast aluminum or bronze with stainless perforated trim insert or stainless steel. Available in round or square door trim.

Rough-In Section

Injection molded polymer with integral junction box for throughbranch wiring. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. The rough-in section has a cylinder/vault configuration and houses the lamp and power module components and top door

Intended Use

Hydrel's M9700 Series modular in-grade lights are multi-purpose units designed for uplighting of architectural and landscape features. These units can be flush mounted into a variety of substrates or landscape materials.

finishing section.

Lamp Module

Stainless steel housing, factorysealed and purged of all moisture for longer component life. Lens is sealed with silicone gasket and stainless steel clamp band assembly with single fastener. Electrical connection to lamp module is done through a submersible quick-pull plug connector with gold-plated contacts. Standard unit is thermally protected. Lamp included.

Finishing Section

Single lens design includes door

assembly with 360° Aim-Lock™ lamp module support ring. Module indexing provides easy maintenance and relamping without re-aiming. Active optical lenses are also available. Door trim locks into position with two stainless steel captive, tamper-resistant fasteners.

Power Module

Ballast is encapsulated in a custom designed heat-dissipating epoxy resin that also eliminates all moisture intrusion to the ballast. Module is provided with submersible rated cord leads for connection to integral junction box and lamp module.

Standard ballast is high power factor; fluorescent electronic or HID magnetic.

Conduit Entries

Two (2) bottom or side entries available. Box suitable for throughbranch wiring. Splicing volume is 25 in³ (410 ccm).

Finish is natural aluminum or bronze. Stainless steel door is brushed finish. Aluminum doors may be painted. See ordering guide.

Listings

U.L., C.U.L., IP68.

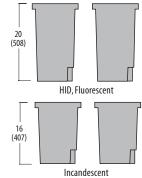
Ordering Information

Example: M9710 B 150CMT6 120 NSP FLC 34B ISS GS LP

										•						
		_						$\overline{}$								
Pro	duct		Material	Lamp type	Voltage	Dis	tribution		Conduit ent	try		Accessories	0p	otions	Lan	пр
M9710 M9720	Round single lens Round double	B SS	Aluminum Bronze Stainless steel Aluminum w/ stainless	P381001 P381501 P382501	120 208 240 277	NSP SP NFL	Narrow spot Spot Narrow flood		12B 1/2" NPT b 12S 1/2" NPT b 34B 3/4" NPT b 34S 3/4" NPT b	side bottom	Internal IHL ISS	Internal honeycomb louver Internal source shield ⁶	Fusing SF DF	Single fuse ¹³	LP Lan inst	np alled
M9730	lens Square	BBP	perforation ¹ Bronze w/brass	100Q 150Q 2500	347 MVOLT ³		Medium flood Flood	CI	Lens C Convex lens cle		LSF CFAMB CFBLU	Linear spread Color filter amber Color filter blue	Ballast ¹⁵ GEB		BL	Finish ¹⁷ Black
M9740	single lens Square	BSP	perforation ¹ Bronze w/ stainless ¹	Fluorescent 18TRT 26TRT		FL WFL WWD	Wide flood Wall wash distribution ⁴	CL	F Convexiens frosted C Flat lens clear		CFGRN CFRED WWL	Color filter green Color filter red	MLEBAD	tronic ballast Elec-	BZ DDB	Bronze Dark bronze
	double lens	AAS	perforation Aluminum door w/aluminum trim, solid ^{1,2}	32TRT 42TRT Metal halide			distribution	FLC	 Flat lens clear, axial spread⁵ Flat lens clear, 		External GS LC	Glare shield Polycarbonate		tronic dim- ming ballast ¹⁶	DNA GN	Natural alumin Green
		ASS	Aluminum door w/stainless steel trim, solid ^{1,2}	100M 150M 175M					tilt O Flat lens clear, in tilt S Flat lens clear, in tilt S Flat lens clear, in tilt		LS RG Trims ⁸	protective cover ⁹ Light shield Rock guard ¹⁰			GR SND STG	Gray Sand Steel g
			Bronze door w/ bronze trim, solid ^{1,2}	P3870M P38100M P38150M				FL	anti-slip Flat lens froster Flat lens froster	ed	BTR	Bronze trim round ¹¹ Bronze trim			WH	Terra ve green White
		BSS	Bronze door w/ stainless steel trim, solid ^{1,2}	<u>Ceramic metal</u> <u>halide</u> 70CMT6		_	12		axial spread ⁴	.u, 3		square ¹² Stainless trim round ¹¹ Stainless trim	6	ISS not availabl	CF	Custom
				150CMT6 70CM 100CM			1000	0000	0 0000		Rings an	square ¹² d masks	7	lamps, or WWD Not available w Not available wi	distributi ith PAR lar	on. nps.
				150CM P3870CM			2000	Ree	000		PRS	Protective ring round ¹¹ Protective ring	9	are mutally excl LCnotavailable f	usive. Cho or M9710,	ose one. M9730.
		ABB		P38100CM High pressure sodium		20 08)				NOTES:	GM	square ¹² Grout mask	11	RG not available Available with M Available with M	19710, M97	20 only.
		-		70S	(5	00)						th M9730, M9740 models		SFavailable with	,	







Available with unpainted finish only 2 Available to 100W max only.

- Standard on fluorescent and metal halide lamps with electronic ballast option.
- FLF5 lens recommended for 70W HID and lower. FLC5 lens recommended for 100W HID and higher.
- 5 Default lens for WWD distribution quartz, fluorescent, and 100W HID and higher.
- 14 DF vailable with 208V, 220V or 240V HID only. 15 Available with MVOLT (120V-277V) voltage only for metal halide lamps to 150W maxi-
- 16 Foruse with O-10V analog dimmer (by others). Additional electrical conductors are
- required. Consult Hydrel for details. 17 Standard finish is unpainted unless specified, only available on aluminum doors.



Installation Accessories

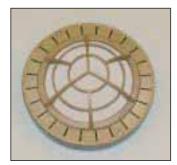


BTR Bronze trim ring



STR Stainless trim ring

Safety Accessories



RG Rock guard, bronze or aluminum



LC Polycarbonate protective cover

Light Control Accessories



GS Glare shield, bronze or aluminum



IHL Internal honycomb louver



WWL Wall wash louver



ISS Internal source shield



FLC5 5° Axial spread lens



FLC10 10° tilt lens



FLC20 20° tilt lens

Door Material Options



BBP Perforated door — brass perforations on bronze



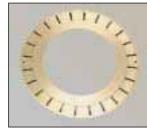
BSP Perforated door — stainless perforations on bronze



ASP Perforated door —stainless perforations on aluminum



A Aluminum door



B Bronze door



SS Stainless steel door

Performance In-grade

6410

Intended Use

This multi-purpose fixture is designed for surface or flush mounting in planting areas and is ideal for lighting walls, building façades, trees and similar applications where a controlled light source is desirable.

Fixture

Cast aluminum or cast bronze.

Lamp

MR-16 with bi-pin socket, 50W max.

Voltage

12V standard.

Electrical
Supplied with a minimum of 10 ft of

#14-2 cable. Side entry. Cord length must be specified.

Lens

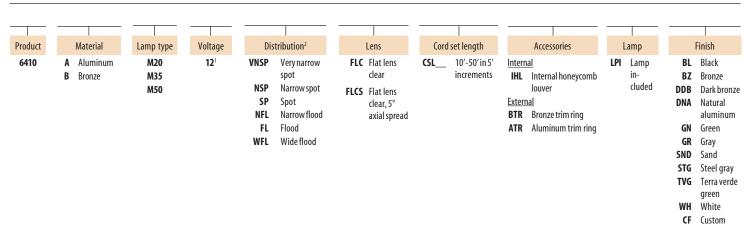
Flat, clear tempered glass.

Listings

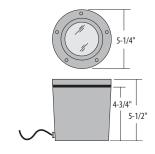
U.L., CSA, suitable for wet locations.

Ordering Information

Example: 6410 B M50 12 VNSP FLC CSL50 IHL LPI







- 1 Transformer sold separately.
- 2 Only valid if LPI is chosen. Not all distributions available with all lamp types.



The 6700 Series sealed outdoor lighting fixture offers high performance and durability in an ingrade fixture. Many lamping options and distributions are available including HID lamps to 175W. Integral ballast and junction box add further to the Series' reliability.

Material

Heavy wall cast bronze body and door.

Reflector

(Non-reflectorized lamps): High purity anodized specular or semispecular materials in various distributions provide maximum

performance and uniformity. Lamps or reflectors are adjustable.

Tempered clear flat borosilicate glass.

Conduit Entries

Two 1/2" or 3/4" NPT entries available bottom or side.

Ballast

Integrally mounted ballast, rated for low starting temperatures.

Finish Raw bronze.

Listings U.L., C.U.L., IP67.

Conduit entry

1/2" NPT

bottom

1/2" NPT

3/4" NPT

bottom

3/4" NPT

side

side

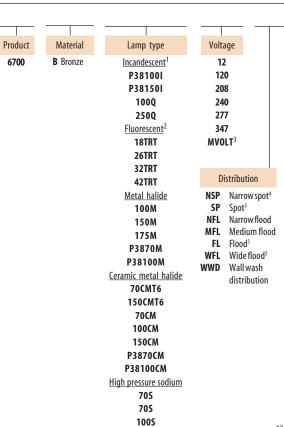
12B

125

34B

Ordering Information

Example: 6700 B 70CMT6 MVOLT NSP FLC 34B IHL GEB LP



150S

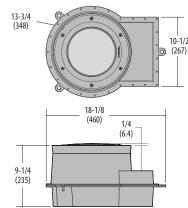
	Lens
CLC	Convexlens
CLF	Convexlens
FLC	frosted Flat lens clear
FLC5	Flat lens clear, 5° axial spread
FLC10	Flat lens clear, 10° tilt
FLC20	Flat lens clear, 20° tilt
FLCAS	Flat lens clear, anti-slip
FLF	Flat lens
	frosted

A	ccessories
<u>Internal</u>	
IHL	Internal
	honeycomb
	louver
ISS	Internal source
	shield ⁶
LSF	Linear spread
	filter
CFAMB	Colorfilter
	amber
CFBLU	Color filter blue
CFGRN	Color filter greer
CFRED	Colorfilterred
WWL	Wallwash
	louver ⁷
External ⁸	
GS	Glare shield
LS	Light shield
RG	Rock guard ⁹
<u>Trims</u>	
BTR	Bronze trim
	round
STR	Stainless trim
	round
<u>Masks</u>	
GM	Grout mask

Accessories	Options	Lamp
Internal honeycomb louver Internal source shield ⁶ Linear spread filter Color filter amber Color filter blue Color filter green Color filter red Wall wash louver ⁷	Fusing SF Single fuse ¹⁰ DF Double fuse ¹¹ Ballast ¹² GEB Electronic ballast	LP Lamp installed
Glare shield Light shield Rock guard ⁹ Bronze trim round Stainless trim round		
Grout mask		

NOTES:

- $1\quad In can descent \, models \, available \, with \, 120V \, only.$
- 2 Fluorescent models available with 347V or MVOLT (120-277V) only.
- 3 Standard on fluorescent lamps and metal halide lamps with GEB ballasts.
- 4 NSP only available with T4 or T6 lamps.
- 5 Not available with T6 lamps.
- $6\quad ISS \, not\, available\, with\, WWD\, distribution\, or\, P38\, lamp\, type.$
- 7 Only available with wall wash distribution (WWD).
- 8 Accessories are mutually exclusive. Choose one.
- 9 RG not available with CLC or CLF lenses.
- 10 SF only is available with 120V, 277V or 347V on HID only.
- 11 DF only is available with 208V or 240V on HID only.
- ${\bf 12} \quad Electronic ballasts only are available with metal halide lamps and MVOLT voltage.$







9310

Intended Use

The 9310 Series is designed for flush mounting in planters and open lawn areas.

Material

Grill: cast aluminum painted or cast bronze natural finish. Well: thick wall A.B.S. pipe.

Lamp Housing

Cast aluminum or bronze body with fins for heat dissipation.

Lamp Type

Incandescent: 50W max. PAR20.

Listings U.L., CSA.

Conduit Entries

Inter-connecting conduit shall be 1/2" galvanized pipe, with brass cord seal.

Ordering Information

Product Material 9310 A Aluminum В Bronze

Lamp type Low voltage M20 M35 M50 <u>Incandescent</u> P20351 P2050I Ceramic metal halide¹

20CMT4 35CMT4 P2035CM

Distribution⁴ NSP Narrow spot Spot NFL Narrow flood FL Flood Medium MFL flood WFL Wide flood

Conduit entry 12B 1/2" NPT bottom 3/4" NPT bottom

Accessories LC Lexan cover

Options **GEB** Electronic ballast⁵

Lamp LP Lamp installed

Example: 9310 B M50 120 NSP 34B LC LP

Finish⁶ **BL** Black ΒZ Bronze DDB Dark bronze DNA Natural aluminum GN Green **GR** Gray SND Sand **STG** Steel gray TVG

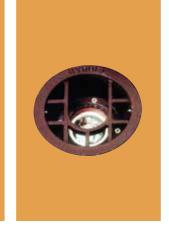
Terra verde green WH White Custom

9310 Incandescent, low voltage (no transformer)

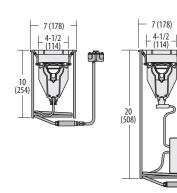
9310 HID, low voltage (with transformer)

GRILL





HYDREL



www.hydrel.com

- 1 Requires GEB ballast option.
- 2 Transformer sold separately.
- MVOLT is standard on all metal halide
- 4 Not all distributions available on all lamp types. T4 lamps only available with SP and MFL distribution.
- 5 Electronic ballasts are only available with metal halide lamps and MVOLT voltage.
- 6 Finish available on aluminum.

The 9330 Series is designed for flush mounting in planter, tree grates or open lawn areas. The 9335 Series is designed for mounting in standard Neenah tree grates.

93309335

Grill

Cast aluminum or bronze — locks to well with two set screws. Full eggcrate louver or directional eggcrate louver square grills and directional louver or clear polycarbonate cover round grills are available. Eggcrate directional louvers provide 30° cut-off.

Well

Thick wall polypropylene pipe.

Lamp Module Housing

70S 100S

Clear Polycarbonate Cover (CPC)

Stainless steel, sealed and purged of all moisture to 100°F (38°C) and mounted integral with grill. Angular adjustment up to 15°. Electrical access to lamp module is done through submersible rated connector.

Thermally protected. Lamp included.

Lens

Tempered glass lens. Convex lens clear (CLC) is standard. Convex lens frosted (CLF) also available.

Power Module

Sealed unit encapsulated in an engineered composite resin to eliminate all water entry.

Conduit Entries/J-Box

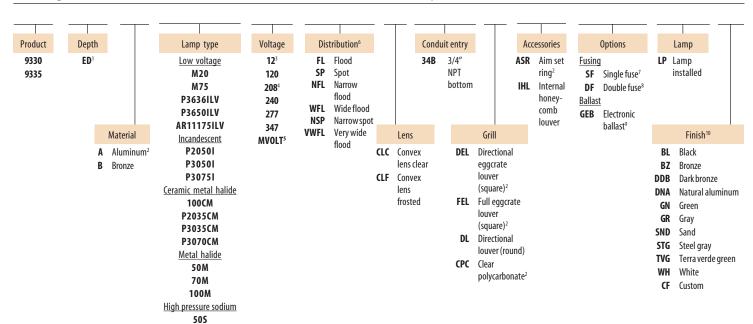
Two 3/4" NPT openings in the bottom of the J - box. 25 in³ of volume suitable for through-branch wiring. Fixture/J-box connecting conduit is 1/2" galvanized pipe with brass cord seal.

Listings

U.L., CSA, IP67.

Ordering Information

Example: 9330 B P3070CM MVOLT SP CLC 34B DL ASR GEB LP

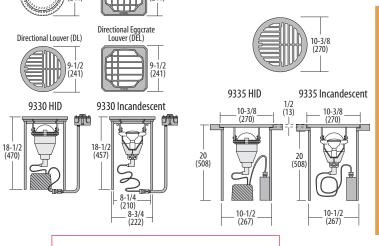


Full Eggcrate Louver (FEL)

NOTES:

PSG9

- 1 EDoption add 10" to well height. Not available with 9335.
- 2 Not available with 9335
- 3 Transformer sold separately.
- 4 208V not available with low-voltage fixtures.
- 5 Standard on fluorescent and metal halide lamps with GEB ballast.
- 6 Not all distributions available with all lamp types.
- 7 SF available with 120V or 277V only.
- 8 DF available with 208V, 240V or 347V only.
- 9 Electronic ballasts are only available with metal halide lamps and MVOLT voltage.
- 10 Finish available on aluminum fixtures only.





9350

Intended Use

Uplighting of trees, shrubs, terraces or walls from a flat lawn area. The units are completely weatherproof, designed for installation in damp areas.

Grill

Cast aluminum or bronze. Locks to well with two set screws. Full eggcrate louver or directional eggcrate louver square grills and directional louver or clear polycarbonate cover round grills are available. Eggcrate directional louvers provide 30° cut-off. Clear polycarbonate cover grill is 100W max.

Wel

Thick wall polypropylene pipe for higher wattages.

Lamp Module Housing

Stainless steel, sealed and purged of all moisture to 100°F (38°C) and mounted integral with grill. Angular adjustment up to 15°. Electrical access to lamp module is done through submersible rated connector.
Thermally protected. Lamp included.

lρn

Tempered glass lens. Convex lens clear (CLC) is standard. Convex lens frosted (CLF) also available.

Power Module

Sealed unit encapsulated in an engineered composite resin to eliminate all water entry. High power factor ballast.

Conduit Entries/J-Box

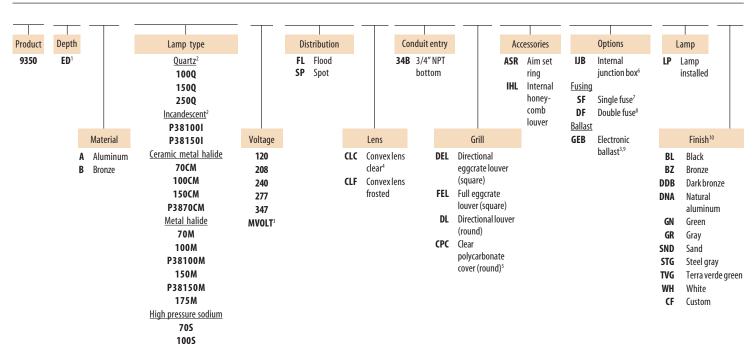
Two 3/4" NPT. 25 in³ of volume suitable for through-branch wiring. Fixture/J-box connecting conduit is 1/2" galvanized pipe with brass cord seal. IJB – internal junction boxes also are available.

Listings

U.L., C.E., CSA, IP67.

Ordering Information

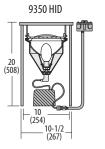
Example: 9350 A 100M 120 FL CLC 34B DEL ASR TVG

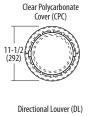




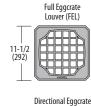


150S











NOTES

- 1 ED option add 10" to standard well height.
- 2 Only available in 120V.
- 3 MVOLT is standard if GEB is selected on metal halide lamps.
- 4 CLC default if lens option not chosen.
- 5 100W max.
- 6 IJB is not available with ED option.
- 7 SF available with 120V, 277V or 347V only.
- 8 DF available with 208V or 240V only.
- 9 Electronic ballasts only are available with metal halide lamps.
- 10 Finish available on aluminum fixture only.



The 2100 Series is a compact, high-performance lighting fixture available with incandescent or HID lamp types. Several ideal distributions are offered for a wide variety of applications. The 2100 Series yoke-mounted unit also includes multiple mounting accessories.

2100

Head

Material

Rugged heavy wall cast aluminum body and hinged door. All fasteners are stainless steel.

Lamr

Incandescent: T-4 mini-can to 250W max. Metal halide: T-6, G12 to 150W max

Socket

Mini-can, screw shell or G12 base, bi-pin.

Lens

High strength curved, tempered glass.

Mounting

Yoke mount with a minimum of 10 ft 18/3 STW cord. Cord length must be specified.

Finish

Textured TGIC powder coat polyester finish (see ordering guide for available colors.

Listings

U.L., C.U.L., suitable for wet locations.

Ordering Information

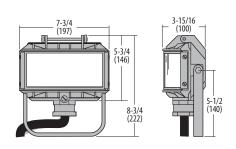
Example: 2100 70CMT6 120 RN YM RACB GS SF CSL10 LPI BL

Product	Lamp type	Voltage	Distribution	Mounting	Mounting	Accessories	Options	Cord set length	Lamp	Finish
2100	Incandescent ¹ 100Q 150Q 250Q Ceramic metal halide ² 35CMT6 70CMT6	120 208 240 277 347 120/277 MVOLT ³ TB	RN Rectangular narrow RM Rectangular medium RW Rectangular wide	YM Yoke mount	accessories See page 631.	GS Half glare shield FGS Full glare shield VSR Visor	SF Single fuse ⁵ DF Double fuse ⁶ Ballast ⁷ GEB Electronic ballast MLEBAD Electronic dimming ballast ⁸	CSL 10'-50' of cord (available in 5' incre- ments)	LPI Lamp included	BL Black BZ Bronze DDB Dark bronze DNA Natural aluminum GN Green GR Gray SND Sand STG Steel gray TVG Terra verde green WH White CF Custom

NOTES:

- 1 Available in 120V only.
- 2 Requires HID ballast enclosure.
- 3 MVOLT is standard on all metal halide lamps with GEB ballast option.
- 4 Accessories are mutually exclusive. Chooseone.
- 5 SFis available with 120V, 277V or 347V on HID only.
 6 DF is available with 208V or 240V on HID
- only.
 7 Only available with 35CMT6 and 70CMT6
- with MVOLT voltage.

 8 Foruse with 0-10V analog dimmer (by others). Additional electrical conductors are required.





NEW

Accent Lighting

4511

Head

Intended Use

Low-profile accent light for shrubs, planters or wall mountings.

Lens

Material

Housing is machined aluminum alloy. Knuckle is cast bronze.

Product

4511

Lamp

Low voltage: MR-11, 35W max.

Listings

U.L., CSA, IP66, suitable for wet Tempered flat glass.

locations. Mounting

Requires low voltage supply. 1/2" NPT adjustable knuckle.

Example: 4511 M35 12 SP WMC LPI DNA



Ordering Information

Lamp type Low voltage M35

Voltage 12¹ **120**² 2772

Distribution³ NR No reflector SP Spot

NSP Narrow spot FL Flood NFL Narrowflood WFL Wideflood

Mounting accessories

See page 631.

Lamp

LPI Lamp included

BL Black BZBronze

Finish

DDB Dark bronze DNA Natural aluminum

GN Green GR Gray

SND Sand

STG Steel gray Terra verde green TVG

WH White

CF Custom

(49)(65)

- 1 Transformer sold separately.
- 2 Only valid when tranfomer box is ordered.
- Distribution only required with LPI option. All others choose NR.

4516

Head

Intended Use

Low-profile accent light for shrubs, planters or wall mountings.

Lamp

(137)

Low voltage: MR-16 quartz halogen,

-15/16

50W max.

Lens

Tempered flat glass.

Mounting 1/2" NPT adjustable knuckle. Listings

U.L., CSA, IP66, suitable for wet

locations.

Requires low voltage supply.

Ordering Information

Example: 4516 M50 12 SP WMSA LPI DNA



Housing is die-cast, copper-free

aluminum alloy A360. Knuckle is cast

Material

Lamp type Low voltage M50

Voltage **12**¹ 120² 2772

Distribution³ NR Noreflector SP Spot

NSP Narrow spot FL Flood

WFL Wideflood

Narrow flood

NFL

Mounting accessories

See page 631.

Lamp LPI Lamp included

> ΒZ Bronze DDB Dark bronze DNA Natural aluminum

GN Green GR Gray

BL Black

SND Sand STG

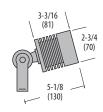
Steel gray TVG Terra verde green

Finish

WH White

CF Custom





- Transformer sold separately.
- 2 Only valid if tranfomer box is ordered.
- 3 Distribution only required with LPI option. All others choose NR.

Spotlights architectural or landscape features from the ground, wall mountings or trees.

4519

Head

Material Cast aluminum with cast bronze

Metal halide: PAR 38 to 150W max. blue, green or red lenses available. Listings

U.L., CSA, suitable for wet locations.

Finish

bronze

Natural

Gray

Sand

areen

Steel gray

Terra verde

aluminum

BL Black

ΒZ Bronze

DDB Dark

DNA

GN Green

GR

SND

STG

WH White

CF Custom

LP Lamp

installed

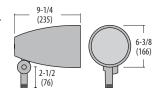
knuckle. Lamp

Incandescent: No lens. Lamp face forms lens on incandescent. HID: convex, clear tempered glass. Amber, Incandescent: PAR38 to 250W max.

Fasteners Stainless steel.

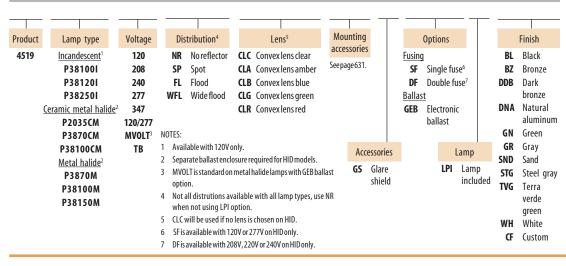
1/2" NPT adjustable knuckle.

Mounting



Ordering Information

4519 P38250I 120 SP JBA LPI DDB Example:





Intended Use

Material

Lamp

Accents trees, shrubs, signs and walls from the ground, wall mountings or trees.

Lens

available.

Listings max. HID: metal halide PAR-20, 35W max. Mounting 1/2" NPT adjustable knuckle. U.L., CSA, suitable for wet locations.

Fasteners Clear convex tempered glass. Amber, blue, green and red lenses also are

Stainless steel.

Head

Ordering Information

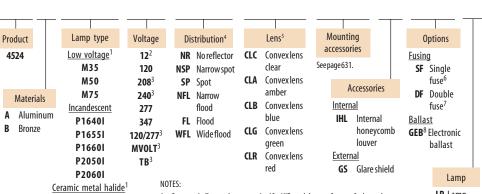
P2035CM

Incandescent: PAR-16 or PAR-20, 60W

Heavy wall cast aluminum or bronze.

Low voltage: MR16, 75W max.

Example: 4524 A P2035CM 277 SP CLC SPCA LP BL



 $Separate \ ballast enclosure \ required for \ HID \ models, transformers for low \ voltage.$

- Transformer sold separately. Only available with HID lamps.
- Not all distributions available with all lamp types, use NR when not using LPI option.
- CLC will be used if no lens is chosen on HID.
- 6 SF is available with 120V, 277V or 347V on HID only.
- DF is available with 208V or 240V on HID only.
- 8 Only valid with metal halide lamps.

3-7/8



4529

Head

Intended Use

Uplighting of trees, signs, walls and building façades.

Material

Cast aluminum or cast bronze body and glare shield. Knuckle is cast bronze.

Lamp Incandescent: PAR38 medium-base.

1/2" NPT adjustable knuckle. Lens **Fasteners** Stainless steel.

Mounting

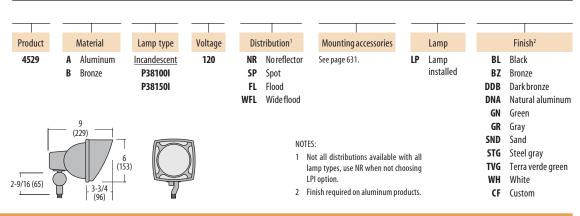
Listings

U.L., suitable for wet locations.



Ordering Information

Example: 4529 B P38150I 120 SP JBB LP



4610,4620

Intended Use

Tree mounted or ground mounted uplighting, or building-mounted facade lighting.

Heads

- 1 Transformer, ballast sold sperately.
- 2 Transfomer included on 4620 unless 12V is speci-
- Separate ballast enclosure required, available on 4620 only.
- Requires GEB ballast.
- 5 Not all distributions available with all lamp types, use NR when not choosing LPI option.
- 6 SF is available with 120V, 277V or 347V on HID only.
- DF is available with 208V or 240V on HID only.
- $Only\,available\,with\,metal\,halide\,lamps\,and\,MVOLT$
- 9 Only valid with yoke mount.

Material

Fixture, knuckle, yoke - copper-free aluminum A360. All aluminum materials are chem filmed or anodized prior to painting.

Lamp MR-16, 50W max.

Lens

Crowned tempered glass.

Mounting

Knuckle1/2" NPT adjustable. Yoke mount with a minimum of 10 Ft. 18/3 STW Cord. Cord length must be specified.

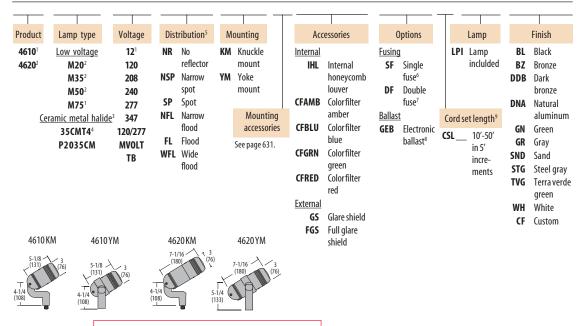
Fasteners Stainless steel.

Listings

U.L., C.U.L., IP66, suitable for wet locations.

Ordering Information

Example: 4610 M50 277 FL KM SSB IHL FGS LPI SND







Landscape and architectural applications.

4630

4640

Material

Fixture, knuckle, yoke — die-cast, copper-free aluminum alloy A360. All materials are chem.-filmed or anodized prior to painting.

Lamp

Incandescent: 150W max. HID: metal halide 150W max.

Mounting

Knuckle: 1/2:" NPT adjustable. Yoke:

minimum of 10 ft 18-3 STW cord. Cord length must be specified.

Lens

Crowned tempered glass.

Fasteners
Stainless steel.

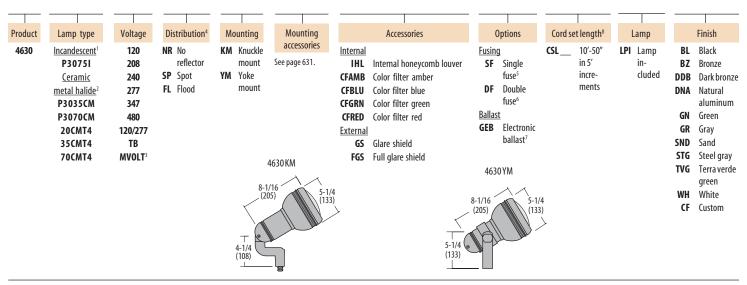
Listings

U.L., C.U.L., C.E., IP66, suitable for wet locations.

Heads

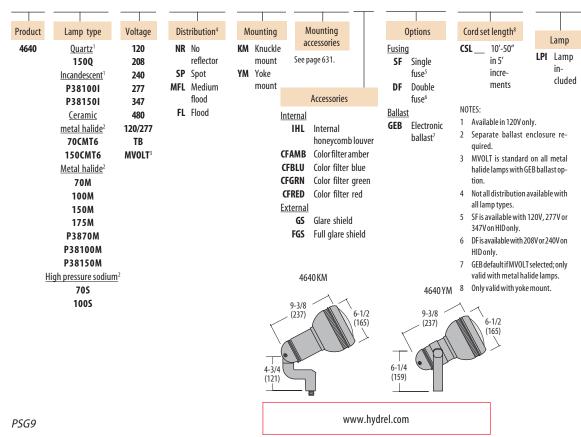
Ordering Information

Example: 4630 P3070CM 120 SP KM SSB IHL LPI BL



Ordering Information

Example: 4640 P38150I 120 SP KM 4TRAS IHL GS LPI TVG







4650

Head

Intended Use

These large, versatile accent lights provide illumination for a variety of architectural and landscape applications to sixty feet.

Material

Die-cast, copper-free aluminum alloy A360. All aluminum materials are chem-filmed or anodized prior to painting.

Lamp

Incandescent: T-4, 250W max., PAR-56, 300W max. HID: E17, T-6 or PAR-38, to 175W max.

Socket

Incandescent: mini-can (T-4) or mogul end prong (PAR 56). HID: medium-base or G12 base.

Voltage

See ordering guide.

Lens

Crowned tempered glass.

Mounting

Knuckle:1/2" NPT, Yoke: with a minimum of 10 ft 18/3STW cord. Cord length must be specified.

Finish

See ordering guide for color options.

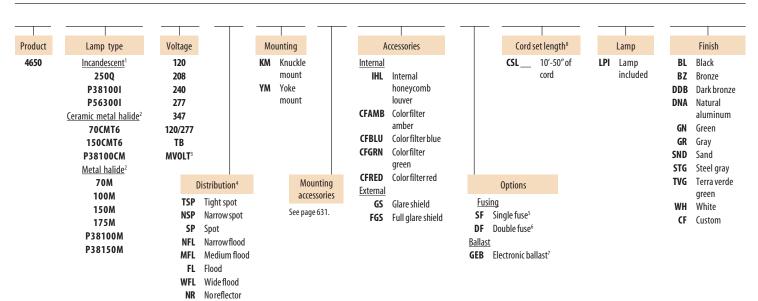
Fasteners Stainless steel.

Listings

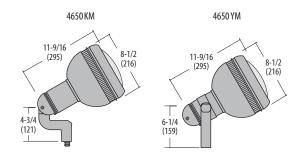
U.L., C.U.L., C.E., IP66, suitable for wet locations.

Ordering Information

Example: 4650 150M TB SP KM BSB FGS IHL LP DDB







- 1 120V only
- 2 Separate ballast enclosure required.
- 3 Standard on metal halide lamps with GEB ballasts.
- 4 Not all distribution available with all lamp types, use NR when not choosing LPI on PAR lamps.
- 5 SFis available with 120V, 277V or 347V on HID only.
- 6 DF is available with 208V or 240V on HID only.
- 7 GEB default if MVOLT selected; only valid with metal halide lamps.
- 8 Only valid with yoke mount.

Designed for installation where cost and reliability are paramount.

Head

Material

Die-cast aluminum. Pulse-rated medium-base.

Lamp Incandesent: PAR-38, 250W max. HID:

PAR-38,150W max.

Socket

Lens Convex tempered glass (HID), lens optional on Incandescent models.

Mounting

1/2" NPT adjustable knuckle.

Fasteners Stainless steel. Listings

U.L., C.U.L., suitable for wet locations.

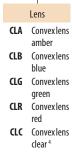
Ordering Information

Product

4709

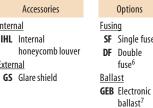
Lamp type Voltage Incandescent¹ 120 P38100I 208 P38150I 240 Metal halide² 277 P3870M 347 P38100M 120/277 P38150M TB P3870CM MVOLT3 P38100CM













Example: 4709 P3870M 120 SP CLC SPCA LP BL



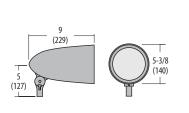


CF Custom

NOTES:

PSG9

- 1 Incandescent models valid with 120V only.
- 2 Separate ballast enclosure required for ${\sf HID\, models}.$
- 3 Standard on metal halide lamps with
- 4 CLC lens provided on all HID models, optional on incandescent.
- 5 SFavailable with 120V, 277V or 347V on HID $6\quad DF available with 208V, 220V or 240V on HID$
- 7 Only available with metal halide lamps and MVOLT voltage.





Linear Floodlight

4750

Material

Extruded A360 aluminum with diecast aluminum end caps. All fasteners are stainlesss steel.

Lame

Fluorescent, single or multiple T5 and T5H0 to 54W per lamp.

Socket

G5 miniature bi-pin.

Voltage

Multi-volt (120V-277V 50/60 Hz).

Distribution

Wall wash, narrow flood, medium flood, vertical flood and wide flood.

Intended Use

T5 and T5HO lamp performance, high output symmetrical and asymmetrical distributions and simple design, make the Hydrel 4750 Series ideal for spreading soft, even illumination along walls, signs and planters.

Lens

Curved high-strength, optical-grade clear acrylic.

Mounting

KM: knuckle mounted with two 1/2" NPT side mounting arms. AWM: adjustable wall mount with two side mounting brackets and minimum of 10 ft 18-3 STW (US) or 3M 3GX1.0mm HO7RN-F (IEC) flexible cord. Cord length must be specified.

Accessories

External glare control available.

Options

Tamper-proof hardware and Polar

Brite $^{\text{TM}}$ cold weather options available.

Ballast

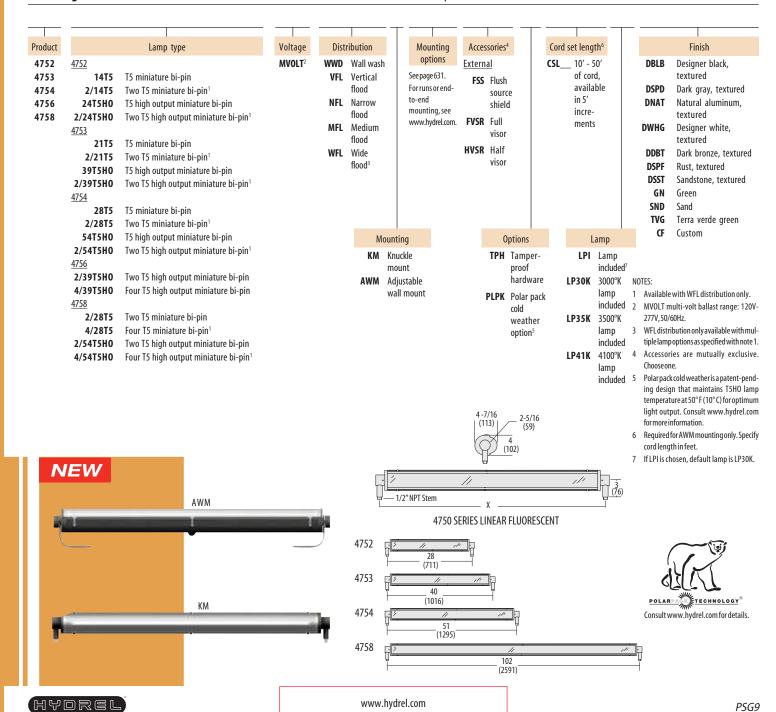
Electronic multi-volt, 0° F (-18° C) minimum starting temperature.

Listings

U.L., C.U.L.

Ordering Information

Example: 4754 54T5HO MVOLT MFL KM WMP FSS LP30K DNAT



 \blacksquare = option available

Accent, Linear Flood Mounting Options													
	2100	4511	4516	4519	4524	4529	4610	4620	4630	4640	4650	4709	4750 ¹
No Ballast													
ARJB Architectural junction box												•	
FJB Flush mounted junction box		•				•						•	
JBA/JBB Junction box aluminum/bronze													
MS/MSB Mounting spike steel/bronze (12" or 18" – 12 volt only)		•											
PS/PSS Polymer ground spike open/sealed (18",24"36") ²		•				•						•	
PSSA Pedestal stanchion mount		•				•						•	
SBA/SBB Stake box aluminum/bronze (12" or 18") ³													
SMSA Stanchion mount		•				•						•	
TRAS/TRBS Tree strap ⁴		•				•				•		•	
WBC35R/WBC40 Wall box cover ^{3,5}		5	5										
WMC Wall mount cover ³		•										•	
WMSA Wall mount with integral splice box		•				•						•	
WMSA EA Wall mount with extended arms		•				•						•	
WMP Wall mount plate		•				•						•	
WMP EA Wall mount plate for extended arm		•				•							
WMP EAS Wall mount plate with extended arm strut		•				•							
Ballast													
AGB Above ground ballast (175-watt max. – remote)													
BPCA/BPCB Big polymer combo box (175-watt max.)													
BPTA Big polymer transfomer box (300-watt max. low voltage)		•											
BSB Big surface box (175-watt max.) ⁵												•	
BSB EA Big surface box with extended arms (175-watt max.)												•	
BSBTS Big surface box with tree strap (175-watt max.) ⁵		•										•	
CBA/CBB Combo box (175-watt max.)												•	
EBA/EBB Encapsulated ballast box (100-watt max.)												•	
RACB Round aluminum combo box (100-watt max.)		5	5				5	5		•			
SCA/SCB Small transformer box, aluminum or bronze (75-watt max.)		•											
SPCA Small polymer combo box (70-watt max.)		•								•			
SSB Small surface box (70-watt max.)		5	5				5	5		•		•	
SSB EA Small surface box with extended arms (70-watt max.)		•								•			
SSBTS Small surface box with tree strap (70-watt max.)		5	5				5	5		•		•	
TRMT Tree mount transformer													

NOTES

- $1\quad \mathsf{Two}\, \mathsf{ofthe}\, \mathsf{selected}\, \mathsf{mounting}\, \mathsf{boxes}\, \mathsf{will}\, \mathsf{be}\, \mathsf{provided}.$
- 2 PS available in 12V only.
- 3 Knuckle mount fixtures only.
- 4 Specify up to 4 junction boxes per strap.
- 5 Will accept two fixtures per mounting. To order with the fixture put 2/ in the lamp type category for example: 45112/M3512 SP WBC 40 DNA.

Visit www.hydrel.com for detailed information on any of the mounting options.

Reminder: Transformer or HID ballast not included (excluding 4620 M50, 4750). Please remember to order a ballast or transformer box.



Step Lighting

4451

4452

4453

Material

Cast aluminum or cast bronze. Aluminum body black permabarred.

Lamp

Incandescent: 40W max, A19 lamp. Fluorescent: single or double 13W max CFL twin tube or double twin tube.

Intended Use

For use in outdoor wet locations, such as patios and pathways at hospitals, hotels, schools, airports and parking garages.

Socket

Incandescent: Medium screw base Fluorescent: 2G7 or GX24Q-1 base.

Rallact

Fluorescent: electronic ballast high frequency with 0° F (-18° C) minimum starting temperature.

Lens

Diffused, tempered glass for nonlouvered door. Clear, tempered glass for louvered door.

Conduit Entries

3/4" NPT side entries standard.

Accessories

Louver door, 45° cut-off.

Fasteners

Stainless steel.

Example: 4451 A 13DTT 120 LPI SND

Listings

U.L., CSA, suitable for wet locations.

Ordering Information

Product

4451

4451

A Aluminum

4452

B Bronze

4453

Lamp type
Incandescent
401'
Fluorescent
7TT
9TT
13DTT
2/7TT²
2/9TT²
2/13TT²

Accessories

External

LLV Louver door

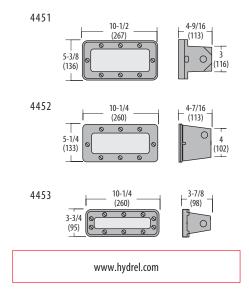
Internal³

IPL Parallel louver

Lamp
LPI Lamp included

Finish **BL** Black ΒZ Bronze DDB Dark bronze DNA Natural aluminum **GN** Green GR Gray SND Sand STG Steel gray TVG Terra verde green WH White **CF** Custom





- 1 Incandescent models available with 120V only.
- 2 Only available with 4452.
- 3 Only available with 4451.

For use in outdoor wet locations, such as patios and pathways at hospitals, hotels, schools, airports and parking garages.

*44*54 *Δ*Δ56

Material

Cast aluminum or cast bronze. Aluminum body black permabarred.

Lamp

HID: 50W max, E17 lamp.

Socket

Product

4454

4456

Medium screw base, pulse-rated.

Ballast

HID: Magnetic ballast high power factor with -20° F (-29° C) minimum starting temperature. Fluorescent: electronic ballast high frequency with 0° F (-18° C) minimum starting temperature.

Lens

Diffused, tempered glass for nonlouvered door. Clear, tempered glass for louvered door.

Conduit Entries

3/4" NPT side entries standard.

Fastener

Stainless steel.

Listings

U.L., CSA, suitable for wet locations.

Ordering Information

Material Lamp type

A Aluminum
B Bronze¹ 751²²³
Fluorescent³
18TRT
26TRT
32TRT
42TRT
Metal halide

Fluorescent³
18TRT
26TRT
32TRT
42TRT
Metal halide
50M
High pressure sodium
355²
50S

 Voltage
 Ad

 120
 Externa

 277
 LL

 347
 LL

Accessories

External

LLV Louver door

Options^{3,4}

EL N NICAD
battery
backup

EL N SD NICAD

backup

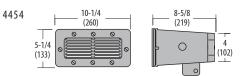
EL N SD NICAD
battery
backup self
diagnostic

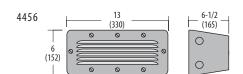
Lamp LPI Lamp included

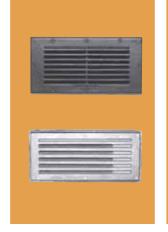
Example: 4456 A 42TRT 120 EL N LPI DDB

Finish **BL** Black ΒZ Bronze DDB Dark bronze DNA Natural aluminum GN Green GR Gray SND Sand STG Steel gray TVG Terra verde green WH White CF Custom

- 1 Not available with the 4456.
- 2 Available in 120V only.
- 3 Not available with 4454.
- 4 Only available with fluorescent lamps.









Intended Use

Meets installation requirements for wood and all (insulation) type IC applications. Fixtures are completely weatherproof with neoprene gasket and tempered lens.

Fixture Housing and Door

Heavy wall cast bronze construction. Natural bronze finish.

Niche

Stainless steel with cast bronze mounting frame which has provisions for locking fixture into position. Single conduit entrance is 3/4" NPT with 3/4" x 1/2" NPT reducer bushing.

Lamp

Incandescent: A-19 90W max., 120V.

Quartz halogen: T-4 75W max., 120V. Low voltage: (2) MR-16, 35W max. each.

Socket

Incandescent: medium base. Quartz Halogen: Mini-can screw base. Low Voltage: Gx5.3 bi-pin.

Lens

Tempered borosilicate diffuse glass standard. Clear tempered borosilicate glass.

Gasket

Single piece, molded U-shaped silicone.

Cord

Minimum of 35 ft of #16-3ST submersible rated cord. Cord entrance is brass water-tight seal and epoxy encapsulated. Cord length must be specified.

Factory Leak Tested

Fixtures are tested at 10 PSI (0.70kg/cm2) internal pressure

while totally submerged in water.

Fasteners

Stainless steel.

Listings

Example: 4462 2/M35 12 FL RG CSL50 LPI

U.L., C.U.L., IP67.

Ordering Information

Product 4462

Lamp type
Incandescent
901
Quartz
75Q
Low voltage
2/M35

Voltage 12¹ 120

Accessories

External³

RG Rock guard

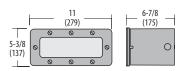
LLV Louver

Cord set length
CSL ____ 35'-120' of cord⁴

Lamp

LPI Lamp
included





- 1 Transformer sold separately.
- 2 Only available with 2/M35.
- 3 Accessories are mutually exclusive. Chooseone.
- $4\quad CSL50\,is\,maximum\,length\,for\,12V\,fixtures.$

This unique style, and distinctive fixture is ideal for installation in sidewalks or promenades – designed to be recessed in concrete, flush to lower rim.

M4534

Material

Cast aluminum housing with integral 24 in³ junction box (incandescent) or ballast box (HID, fluorescent).

Lamp

Incandescent: 60W max., A-15 or T-10/tubular. 100Q (Quartz) 100W max., T-4/tubular. HID:100W max., E-17/elliptical or T6/G12. Fluorescent: 32TRT, 32W max.

Socket

Quartz: mini-can base. Fluorescent: Gx24q-3 base. HID, Incandescent: pulse-rated medium base. Lens

Molded, tempered, borosilicate.

Gasket

Molded silicone.

Conduit Entries

Two 3/4" NPT, 1/2" NPT side or

bottom openings available.

Glare Control

Black finish Glarefoil $\mbox{\scriptsize IM}$ included.

Listings

U.L., C.U.L.

Ordering Information

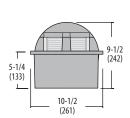
Example: M4534 70CMT6 MVOLT 34S MILS180 GEB LPI STG

Product Lamp type Voltage Conduit entry Accessories	Options
NA534 Incandescent 120 128 1/2" NPT MILS90 Internal 90° light Fusing 50 100Q 240 125 1/2" NPT side MILS180 Internal 180° DI Fluorescent 277 348 3/4" NPT Ight shield Ballast Ballast	Double fuse' Electronic ballast

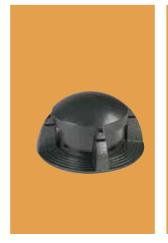
	Options		Lamp		Finish
SF DF t ⁵	Single fuse ³ Double fuse ⁴ Electronic	LPI	Lamp included	BL BZ DDB DNA	Black Bronze Dark bronze Natural aluminum
	ballast			GN	Green
AD	Electronic dimming ballst ⁶			GR SND STG	Gray Sand Steel gray
				TVG	Terra verde green
				WH	White

NOTES:

- 1 Only available in 120V.
- 2 MVOLT is only available with fluorescent and metal halide lamps with GEB or MLEBAD options.
- 3 SF available with 120V, 277V or 347V and HID only.
- 4 DF available with 208V or 240V and HID only.
- 5 Only available with metal halide lamps and MVOLT voltage.
- 6 0-10V dimmer not included.



www.hydrel.com



CF Custom

Material

The bollard section is fabricated from heavy cast aluminum.

Lamp

T6/G12.

Intended Use

This unique and distinctive fixture has been custom designed for installation along park walkways and sidewalks.

HID:100W max., E-17/elliptical or

Socket

Pulse-rated medium base.

Rough-In Section

Injection-molded ABS, U.V. stabilized, impact and corrosionresistant for use in all types of environments.

Lens

Molded tempered glass. 90° cutoff with internal louver.

Conduit Connection

Two 3/4" NPT bottom openings are standard in the cast aluminum integral junction box. Suitable for

through-branch wiring, this box has 24 in³ of volume.

Power Module

Example: 4540 70M 277 34B LP BL

Sealed unit encapsulated in an engineered composite resin to eliminate all water entry.

Ordering Information

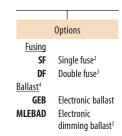
Product					
4540					

Lamp type
Metal halide
50M
70M
Ceramic metal halide
35CMT4
35CMT6
70CM
70CMT4
70CMT6

Voltage
120
208
240
277
347
MV0LT1

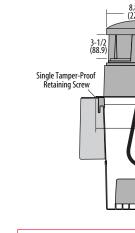
Cone	duit entry
34B	3/4" NPT
	bottom
12B	1/2" NPT
	bottom

ssories
Internal 90° light shield
Internal 180° light shield





	Finish			
BL	Black			
BZ	Bronze			
DDB	Dark bronze			
DNA	Natural			
	aluminum			
GN	Green			
GR	Gray			
SND	Sand			
STG	Steel gray			
TVG	Terra verde			
	green			
WH	White			
CF	Custom			



NOTES:

- 1 MVOLT is only available with GEB and MLEBAD options
- 2 SF available with 120V, 277V or 347V and HID only.
- 3 DF available with 208 or 240 volts and HID
- 4 Only available with MVOLT voltage.
- 5 0-10V dimmer not included.

. 10 (254)

636

Pathway and marker lights are multi-purpose units designed for high-traffic areas to be mounted in a variety of substrates. The M9460 Series also is suitable for drive-over applications.

See www.hydrel.com for more details.

M9450

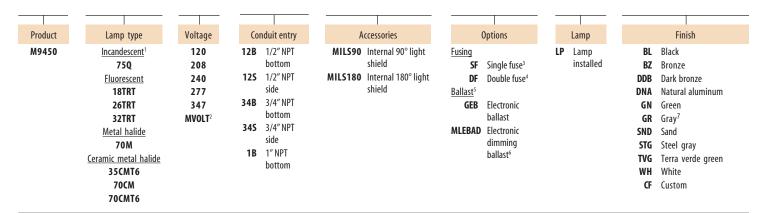
Pathway Light

M9460

Marker Light

Ordering Information

Example: M9450 18TRT MVOLT 12B LP SND



Ordering Information

Example: M9460 100CM 120 34B LP TVG

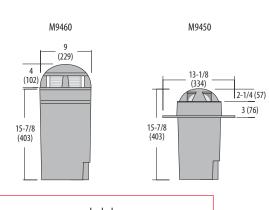
Product	Lamp type	Voltage	Co	nduit entry	Accessories		Options	Lamp			Finish	
M9460	Low voltage 50QT3 Incandescent ¹ 75Q Ceramic metal halide 35CMT4	12 ⁷ 120 208 240 277 347	34B	1/2" NPT bottom 1/2" NPT side 3/4" NPT bottom 3/4" NPT side	Extermal glare shield (2) exteral glare shields	Fusing SF DF Ballast ⁵ GEB	Single fuse ³ Double fuse ⁴ Electronic ballast	LP Lamp installed	BL BZ DDB DNA	Dark bronze	TVG WH	Steel gray Terra verde green
	35CMT6 70CMT4 70CMT6	MVOLT ²	1B	1" NPT bottom		MLEBAD	Electronic dimming ballast ⁶		GR	Gray ⁷		

NOTES:

- 1 Only available in 120V.
- 2 MVOLT is only available with fluorescent and metal halide lamps.

70CM 100CM

- 3 SF available with 120V, 277V or 347V and HID only.
- 4 DF available with 208V or 240V and HID only.
- 5 Only available with HID lamps and MVOLT voltage.
- 6 0-10V dimmer not included.
- 7 Lowvoltage only, transformer sold separately.





Border Lighting

4595

4596

4597

4598

Intended Use

The graceful mushroom garden light is ideal for lighting flower beds, low planter areas, walkways and driveways, or any area where an unobstructed circular field of light is desired.

Socket Lamp Lens Quartz T3 20W max. G4 bi-pin Glass

Ordering Information

Product 4595 4596 4597 4598

Lamp type 20QT3

Material

Heavy-gauge cast bronze body

with spun copper canopy.

Voltage **12**¹

Accessories JBA J-box, aluminum J-box, bronze

LPI Lamp

Lamp

included

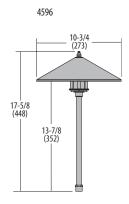
Finish² **VBL** Black VBZ Bronze VGN Green

Example: 4595 20QT3 12 JBA LPI VBL

Terra verde green VTVG VWH White

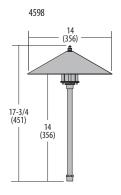
- 1 Low-voltage transformer sold separately.
- 2 Vendor-supplied finish. Consult factory for details.

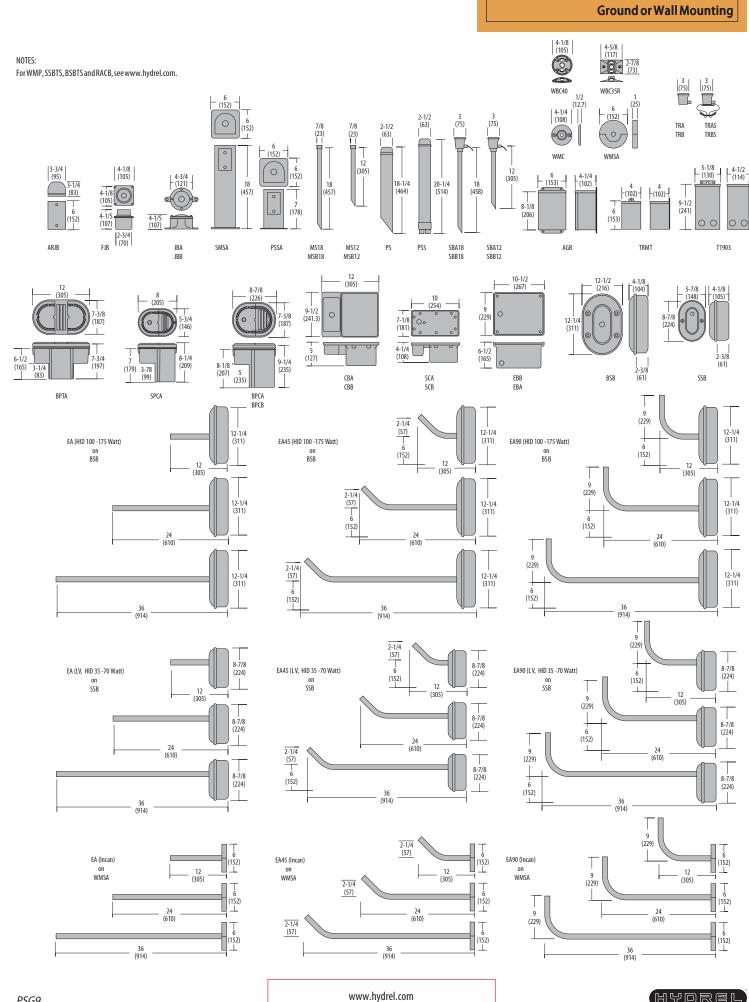


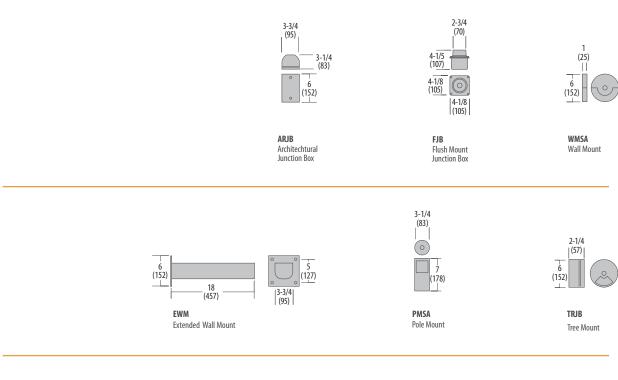


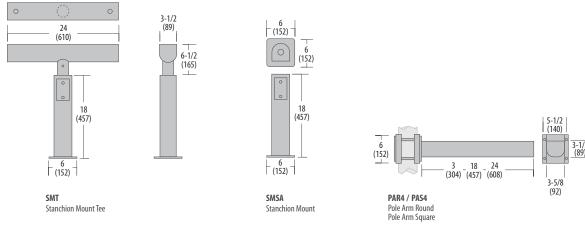


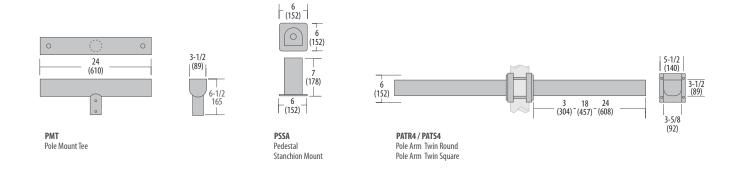


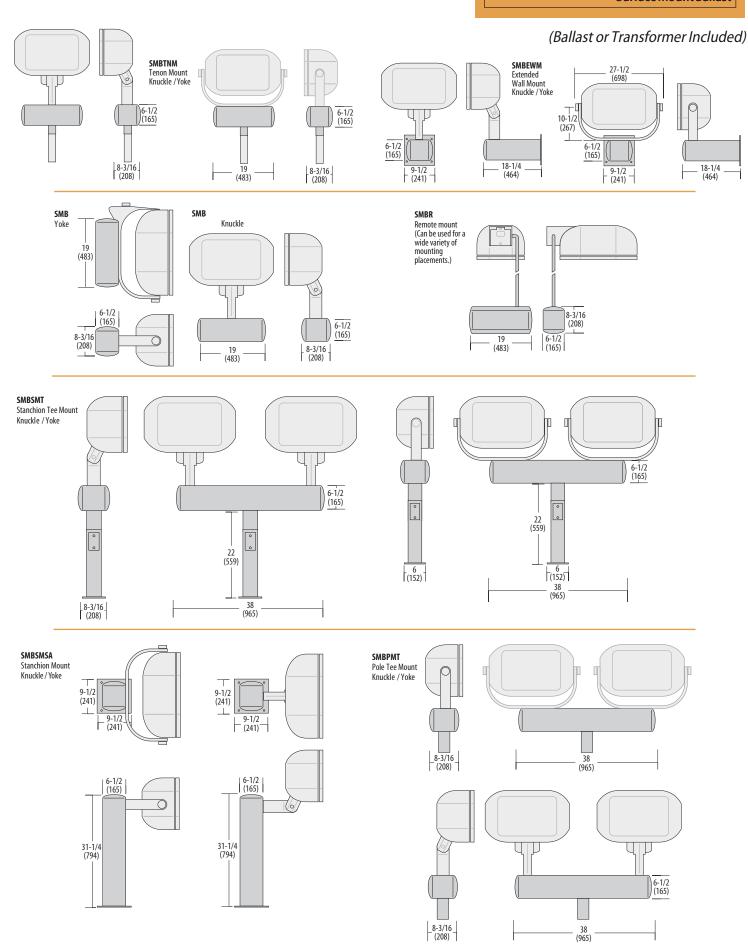










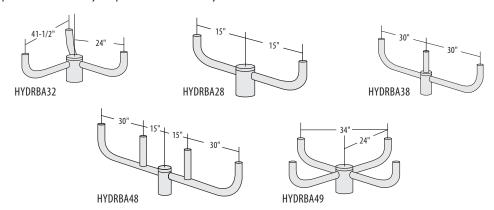


Brackets (for Pole/Tenon Mounts)

Brackets – Must be ordered with pole to insure proper fit. For use with Hydrel poles or stanchions only.

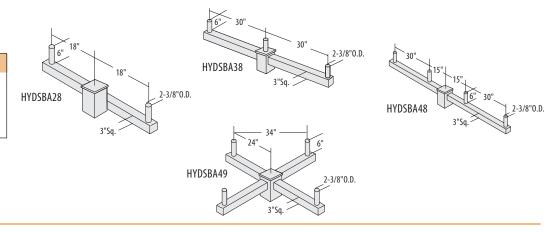
RSA Pole - mount to T25 2-7/8" OD tenon

Part Number EPA Weight HYDRBA 28 1.2 7.0 HYDRBA 32 1.7 14.3	NOA TOIC - IIIOUIIC to 125 2-7/0 OD tCIIOII						
	Part Number	EPA	Weight				
HYDRBA 32 1.7 14.3	HYDRBA 28	1.2	7.0				
	HYDRBA 32	1.7	14.3				
HYDRBA 38 1.9 10.5	HYDRBA 38	1.9	10.5				
HYDRBA48 2.7 14.5	HYDRBA48	2.7	14.5				
HYDRBA 49 2.2 17.5	HYDRBA 49	2.2	17.5				



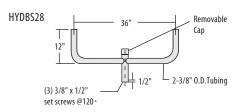
SSA Pole — brackets flush mount on 4" or 5" poles. For use with internal sleeve, plain open top poles.

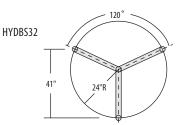
roi use with internal sieeve, piani open top poles.							
Part Number	EPA	Weight					
HYDSBA28	.90	12					
HYDSBA38	1.5	17					
HYDSBA48	2.25	22					
HYDSBA49	1.7	22					

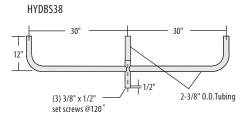


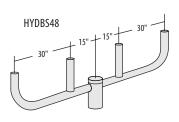
RSS Pole - requires T20 or TC stanchion mount

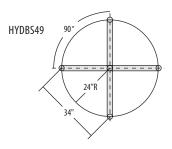
133 Fold - Tequiles 120 of Te stalleriloff filount								
Part Number	EPA	Weight						
HYDBS28	1.0	21.00						
HYDBS32	1.3	34.00						
HYDBS38	1.6	32.00						
HYDBS48	2.3	44.00						
HYDBS49	1.6	44.00						





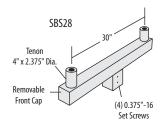


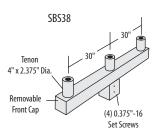


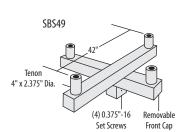


SSS Pole — requires T20 or TC stanchion mount

sss rote requires 120 or restautement mount							
Part Number	EPA	Weight					
HYDSBS28	1.1	30.00					
HYDSBS38	1.7	42.00					
HYDSBS49	2.1	45.00					









Poles: For detailed technical information, EPAs and wind map, please visit www.hydrel.com.

Ordering Information

-				1	
Туре		Height	Nominal shaft base size wall thickness (in.)		
HYDSSAG2	Square straight aluminum G2	10-16	3.75	J	.250
HYDSSA	Square	8-35	4	C .	.125
	straight		5	G	.188
	aluminum		6	J	.250
HYDSSS	Square	10-39	4	C	.125
	straight		5	G	.188
	steel		6		
HYDRSA	Round	8-30	4	C	.125
	straight		4.5	Ε	.156
	aluminum		5	G	.188
			6		
HYDRSS	Round	8-35	4	В	1.20
	straight		4.5		
	steel		5		

Fixture mounting method

Mounting	

PT Open top Tenon mounting

T20 2-3/8" 0.D. T25 2-7/8" O.D.

Drill mounting G2XTEND

DM19G2 Single luminaire drilling DM28G2 Two luminaires at 180° DM29G2 Two luminaires at 90° DM39G2 Three luminaires at 90° Four luminaires at 90° DM49G2 8100/8200 PM

DM19AS Single luminaire drilling DM28AS Two luminaires at 180° DM29AS Two luminaires at 90° DM39AS Three luminaires at 90° DM49AS Four luminaires at 90°

Options

PER NEMA twist-lock receptacle only located at pole top²

L/AB Less anchor bolts VD Vibration damper

TP Tamper-proof screws provided with base cover

Horizontal arm^{3,4} Festoon duplex outlet FDL__

less electrical³ $FGL_{\underline{}}$ Festoon GFI outlet less electrical³

HYDRSA

 HH_{--} Extra handhole^{3,5}

Finish

Standard colors

Example: HYDSSAG2 16 3.75 J T20 DDB

BL Black ΒZ Bronze

DDB Dark bronze DNA Natural aluminum

GN Green

GR Gray

SND Sand

STG Steel gray

TVG Terra verde green

WH

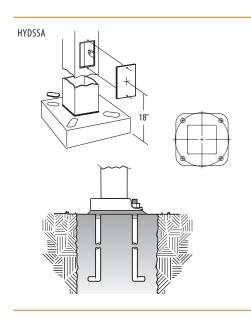
Designer colors

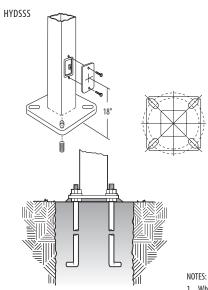
DBLB Designer black, textured DSPD Dark gray, textured Natural aluminum, DNAT textured **DWHG** Designer white,

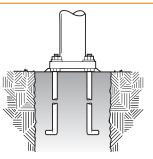
textured DDBT Dark bronze, textured

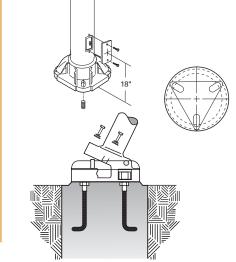
Rust, textured DSST Sandstone, textured

CF Custom









- $When ordering tenon \, mounting \, and \, drill \, mounting \, for \, the \, same \, pole,$ $follow this \, example: DM28G2/T20. \, The \, combination \, requires \, an \, extra \, handhole.$
- $2 \quad \text{NEMA twist-lock photo control by others. Not available with tenon mounting}.$
- $Must specify \, location \, and \, orientation \, when \, ordering \, an \, option.$ $For 1st space _: Specify the height in feet above base of pole.$ Example: 5ft = 5 and 20ft = 20 $For 2nd space_: Specify orientation from handhole (A,B,C,D)\\$

Refer to the handhole orientation diagram on this page.

- $4\quad \text{Horizontal arm\,is}\, 18"\,x\,2\text{--}3/8"\,0.D.\, tenon\, standard.$
- Combination of tenon-top and drill mount requires extra handhole.

 $\textbf{\textit{CAUTION:}} \ This pole selection \ process is a \ guideline \ only. \ Hydrel \ and \ Acuity \ Brands$ $Lighting\ assumes\ no\ responsibility for\ selection\ and\ recommends\ consultation\ with$ qualified individuals for verification of luminaire/pole assembly selection.





HYDRSS

Fountain and Swimming Pool

4428

Intended Use

Swimming pool, reflection pool and fountain pool lights. This 175W metal halide fountain light, the first HID underwater light in the industry, delivers the equivalent light output of a 1000W Quartz halogen lamp while consuming only one-fifth the power and attaining 2-1/2 times longer lamp life.

Features

The industry's first 175W metal halide swimming pool and fountain light provides light output equivalent to a 1000W incandescent lamp but uses only one-fifth the power, with more than two times

the lamp life.

Ballast

Metal halide ballast encapsulated and contained in fixture. Heavy wall cast bronze construction.

Lens

Tempered borosilicate clear lens and silicone gaskets.

Reflector

Fountain light provides three reflectors – a 7° spot, a medium flood and a wall wash.

Listings

U.L., submersible or wet/dry listed fountain (submersion not required for safe operation).

Ordering Information

SS Stainless

Swimming pool or niche mount fountain application.



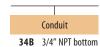


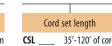
steel trim















Example: 4428 SS 175M 120 NM 34B CSL120 SWM LP



LP Lamp installed

Ordering Information

Base mount fountain application.























Accessories



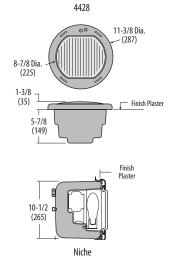
Example: 4428 175M 120 FL FLC BM CSL100 LP

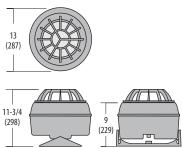






HYDREL

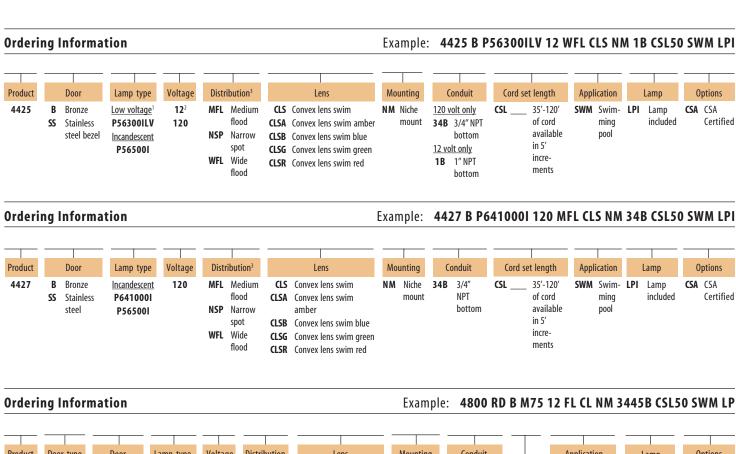


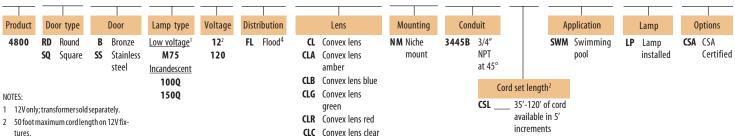


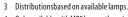
Base

Swimming pool fixtures. Maximum wattages of each lamp type listed. Lower wattages available; consult www.hydrel.com for more information.

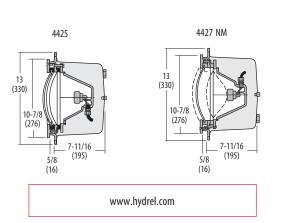
4425 NM SWM 4427 NM SWM 4800 NM SWM

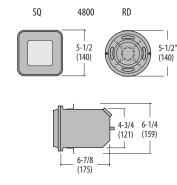






4 Only available with M75 lamp, otherwise leave blank.



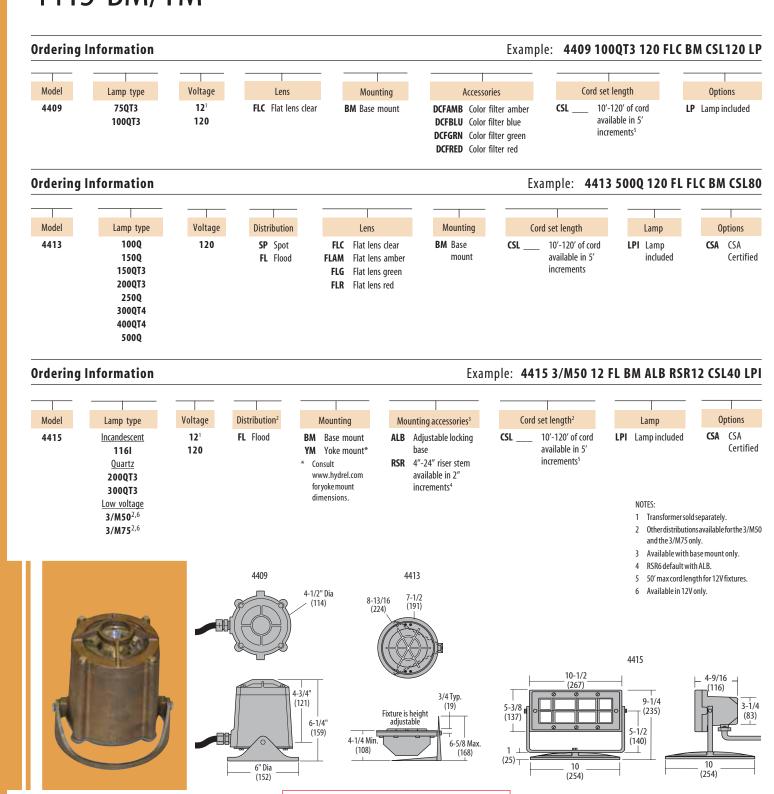


Fountain

4409 BM 4413 BM 4415 BM/YM

Intended Use

Lighting for fountains and reflecting pools – base/yoke mount.



www.hydrel.com

PSG9

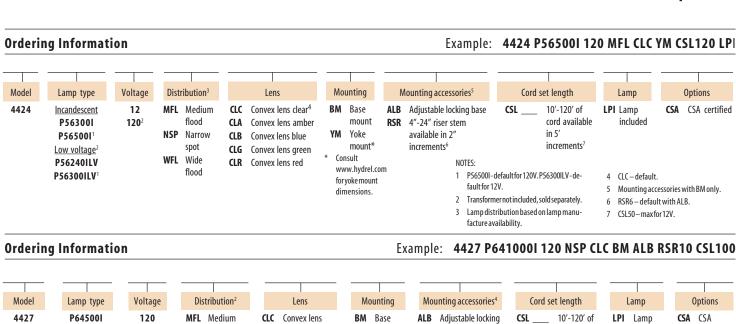
HYDREL

Lighting for fountains and reflecting pools – base/yoke mount.

4424 BM/YM 4427 BM/YM 4800 BM/YM

included

Certified



4 Mounting accessories with BM only.

P641000I¹

Lamp distribution based on lamp manu-

flood

NSP Narrow spot

WFL Wide flood

clear3

amber

CLG

CLR

Convex lens

Convex lens

Convex lens red

Convex lens blue

Ordering Information 4800 100Q 120 FL CLC BM CSL90 LP Example:

mount

mount*

www.hydrel.com

for yoke mount

dimensions.

Consult

YM Yoke base

4"-24" riser stem

available in 2"

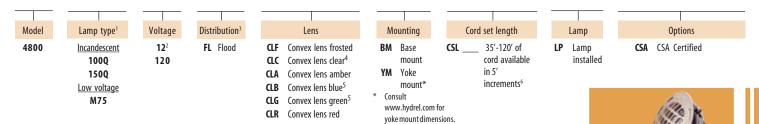
increments⁵

RSR

cord

available in

increments



NOTES:

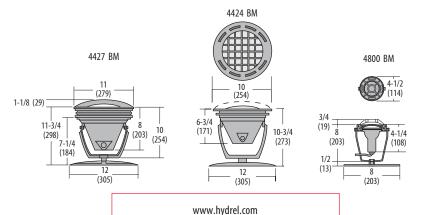
NOTES:

1 P6410001 - default

facture availability.

5 RSR6 – default with ALB.

- 1 Other wattages available by request.
- 2 Transformer sold senarately
- 3 Distribution included on 12V only.
- 4 CLC-default.
- 5 CLB and CLG not available with 1500
- 6 CSL50 max. cord length for 12V.
- * Consult www.hydrel.com for yoke mount dimensions.





Fountain

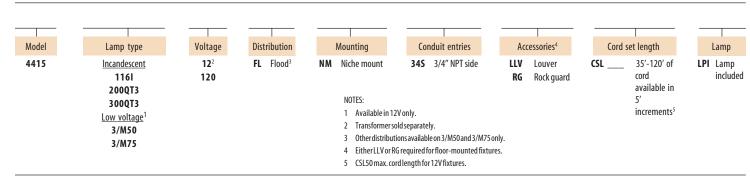
4415 NM 4424 NM 4800 NM

Intended Use

Lighting for fountains and reflecting pools – niche mount.

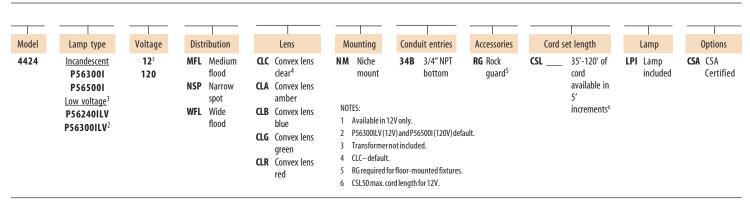
Ordering Information

Example: 4415 3/M50 12 FL NM 34B RG CSL50 LPI



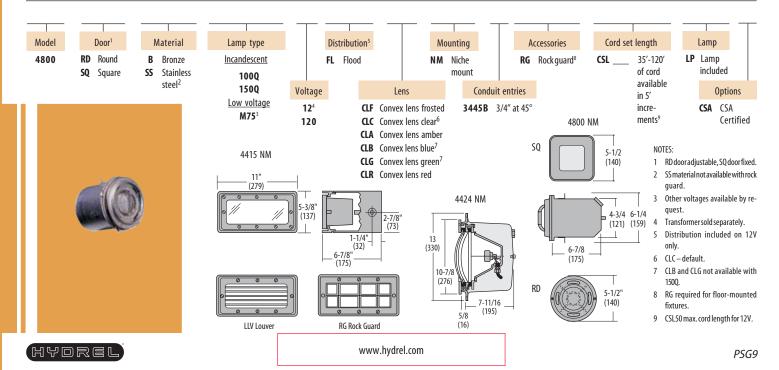
Ordering Information

Example: 4424 P56500I 120 MFL CLC NM 34B CSL120 LPI



Ordering Information

Example: 4800 RD SS 100Q 120 FL CLC NM 3445B CSL75 LP



Complementing their underwater lights, is Hydrel's full line of accessories is manufactured to the high standards required for underwater fountain and pool products.

Underwater Accessories

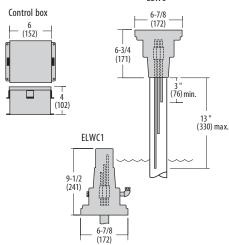
Electronic Water Level and **Cut-Off Controls**

Model #

ELWC Deck and remote mount

ELWC1 Conduit mount





Colored Lenses

Green, red, amber and blue available for most fixtures.



Potting Compound

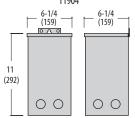
PC21 is a re-enterable potting compound which pours yellow and cures transparent so connections are easily located. It meets **NEC** requirements for potting underwater junction boxes.



Model #

PC21 35 CU. IN. PC2112 20 CU. IN.

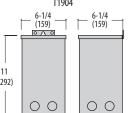




Low Voltage Transformers

Low voltage lighting fixtures require that the line voltages be stepped down. This is normally accomplished with a transformer or a series of transformers located in the pool equipment area. Hydrel offers such parts in sizes from 300 to 1000 watts.

NOTE: Special consideration must be given to the length of cords used with low voltage underwater fixtures.

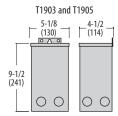


Model # T1903

300-watt transformer 1000-watt T1904

transformer T1905 500-watt transformer







Underwater Accessories

Underwater Junction Boxes

Hydrel underwater junction boxes are designed for the connection of supply cords from underwater fountain fixtures and service conduits. They feature heavy cast bronze

construction, neoprene gaskets, internal ground lugs and stainless steel hardware.

All hubs may be tapped either 1/2"

NPT or 3/4" NPT with other drillings available upon request. When ordering, specify the catalog number, hub location and hub size.

Letters around perimeter indicate side drill locations. Letters within box indicate bottom drill locations.



JB1701

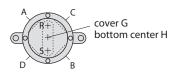


JB1703



JB1705





Outside dimensions: 43/4" (121) dia. x 3" (76) deep

Inside dimensions: 31/2" (89) dia. x 2" (51) deep (25 cubic inches)

Cover may have single 1/2" or 3/4" hub. Bottom may also have single 1" hub.



Outside dimensions: 33/8" (86) x 43/8" (111) x 21/2" (64) deep

Inside dimensions: 3" (76) x 2" (51) x 2" (51) deep (12 cubic inches)



Outside dimensions: 4³/₄" (121) sq. x 2¹/₂" (64) deep

Inside dimensions: 3" (76) sq. x 2" (51) deep (18 cubic inches)



Outside dimensions: 5³/8" (137) sq. x 2¹/2" (64) deep

Inside dimensions: 4" (102) sq. x 2" (51) deep (32 cubic inches)



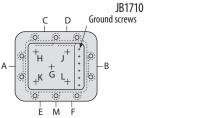
JB 1708







JB1713



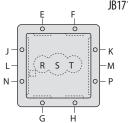
Outside dimensions:

Inside dimensions:

(62 cubic inches)

 $7^{5}/8''$ (194) x $6^{1}/2''$ (165) x $4^{7}/16''$ (113) deep

53/16" (132) x 41/8" (105) x 311/16" (94) deep



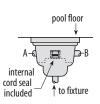
Outside dimensions:

75/8" (194) sq. x 43/4" (121) deep



two 11/4" hubs or one 2" hub.

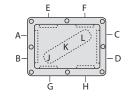
Bottom may have maximum three 1" hubs or



Outside dimensions:

4¹/₂" (115) dia. x 3⁵/₈" (93) deep

Inside dimensions: 23/4" (71) dia. x 21/4" (58) deep (10 cubic inches)



Outside dimensions: 73/8" (188) x 53/8" (137) x 21/2" (64) deep

Inside dimensions: 6" (153) x 4" (102) x 2" (51) deep (48 cubic inches)

Bottom may have single 1" or 11/4" hub.



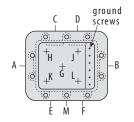
Underwater Accessories

Deck Mounted Junction Box

Specifically designed for deck or remote wall mountings, this deck junction box meets all the requirements of the NEC. It features cast bronze construction, neoprene gaskets, one hub at each end and two hubs on one side. The entire bottom and one side of the box are suitable for drilling. Fasteners are stainless steel.

 $NOTE: Specify \, USR \, strain \, reliefs \, for \, the \, total \, number \, of \, fixtures. \, USR \, sold \, separately. \, and \, reliefs \, for \, the \, total \, number \, of \, fixtures. \, SR \, sold \, separately. \, The first in the first$





Outside dimensions:

 $7^{5}/8''$ (194) x $6^{1}/2''$ (165) x $4^{7}/16''$ (113) deep

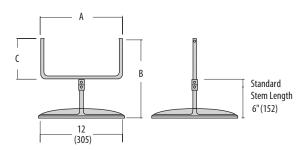
Inside dimensions:

 $5^{3}/16''$ (132) x $4^{1}/8''$ (105) x $3^{11}/16''$ (94) deep (62 cubic inches)

ALB - Adjustable Locking Base

This fountain lighting economy base allows for variable fixture height and includes Hydrel's pro-focus aim-set feature. Multiple riser heights available.

Model	Α	В	C
ALB15	101/2 (267)	125/8 (321)	85/8 (219)
ALB21	$7^{7}/_{8}$ (200)	11 (279)	7 (178)
ALB22	$7^{11}/_{16}$ (195)	12 (305)	8 (203)
ALB24	$7^{11}/_{16}$ (195)	12 (305)	8 (203)
ALB27	$7^{11}/_{16}$ (195)	12 (305)	8 (203)



Cord Seals

Constructed of brass with neoprene grommets, these seals are for use in underwater junction boxes for fixture cord entrance seals.

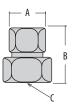
Model	NPT	Cord	Α	В
CS14302	1/2	18-3	7/8	$1^{1}/_{2}$
CS143022	1/2	16-3* (3 x 1.5)	7/8	$1^{1}/_{2}$
CS14304	3/4	18-3	$1^{1}/_{4}$	$1^{3}/_{4}$
CS14303	3/4	14-3 (2 x 4)	11/4	$1^{3}/_{4}$
CS143032	3/4	12-3	11/4	$1^{3}/_{4}$
CS143033	3/4	10-3 (2 x 6)	11/4	$1^{3}/_{4}$



SR Strain Relief

A threaded cord grip that prevents cord movement from pulling on connections. Used where J-box is mounted above the floor or deck.

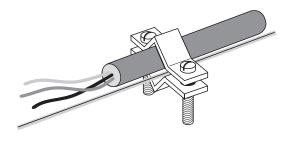
Model	C(NPT)	CORD	Α	В
SR50	1/2	16-3*	⁷ / ₈	$1^{3}/_{8}$
SR754	3/4	18-3	11/4	$1^{1}/_{2}$
SR75	3/4	10-3	11/4	11/2



18-2/16-1 cord fits SR50 and CS143022 parts.

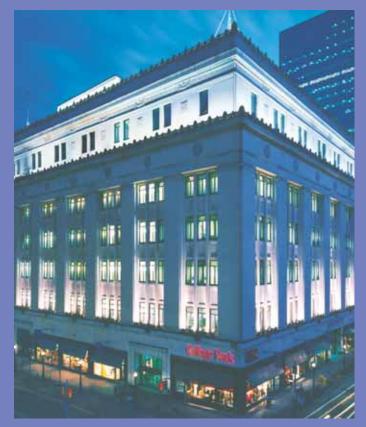
USR Strain Relief

Universal strain relief (USR). Strain reliefs, used where J-boxes are mounted flush to floor or deck. Specify for the total number of fixtures to be mounted.



HYDREL

LITHONIA LIGHTING®

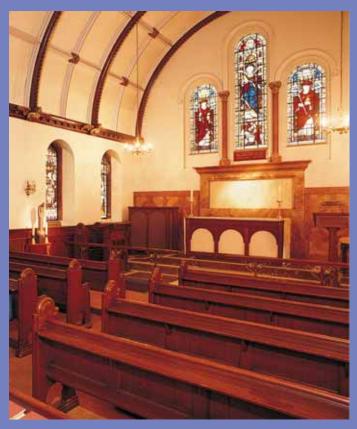


Control Systems

Lithonia Lighting produces a wide range of control systems for both architectural dimming and lighting energy management. These systems are suitable for applications in high-rise office buildings, educational facilities, multi-building complexes, manufacturing plants and sports facilities.

Lighting controls dramatically enhance efficiency by governing the amount of light needed to maintain illuminance levels and by limiting light use to occupied spaces. Lithonia offers a variety of lighting control solutions to meet ASHRAE 90.1 and similar legislation requirements.





LITHONIA CONTROL SYSTEMS

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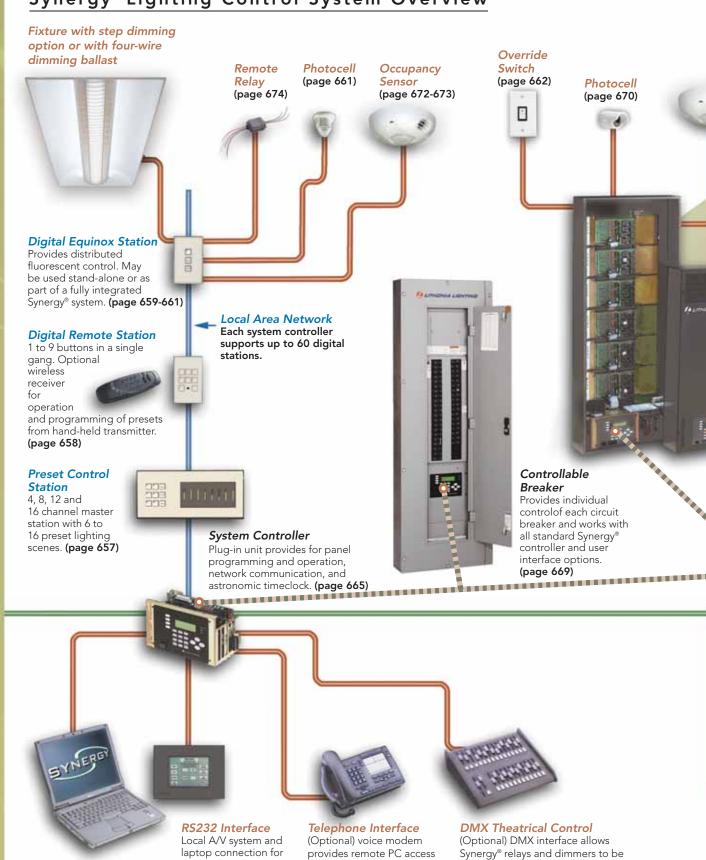
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Sequel IDC	675
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Fluorescent Dimming Guide 680

Application	Good	Solution Better	Best
Building-wide Control		SwitchPak w/ SR option page 671 (on/off control only)	Synergy MLX pages 654-670 (on/off and dimming control)
Energy Management - on/off only	Occupancy Sensors pages 672-674 SweepSwitch page 662	SwitchPak page 671 Digital Equinox page 660	Synergy MLC or MLX pages 654-670
Energy Management - dimming (Daylight Harvesting) ISD DPC page 679		Digital Equinox page 659	Synergy MLX pages 654-670
Timeclock control	SwitchPak page 671	Synergy MLC pages 657-670	Synergy MLX pages 654-670
Architectural Dimming	Sequel IDC page 675	Synergy MLC pages 657-670	Synergy MLX pages 654-670
Wallbox Dimming	DSD page 677	ISD pages 678-679	Sequel IDC page 675
Classroom Control	Occupancy Sensors pages 672-674 SweepSwitch page 662	SwitchPak page 671 Digital Equinox pages 659-660	Synergy MLX with Digital Equinox pages 654-670, pages 659-660
University / College Campus	Occupancy Sensors pages 672-674	SwitchPak w/ SR option page 671	Synergy MLX with Digital Equinox pages 654-670, pages 659-660

Synergy[®] Lighting Control System Overview



and override of lighting via

any touchtone telephone.

(page 665)



programming and

operation. (page 665)

controlled by theatrical systems.

(page 665)

Power Module Options

May be combined within the same enclosure to meet job site requirements



System Enclosure for Relays and Dimmers Three capacities, up to

Three capacities, up to 48 relays or 30 dimmers each. (page 664)



Relay Module

Eight single-pole relays with zerocross switching, plus eight switch and two analog input terminals. (page 666)



Relays with Breakers

As above with either six 120V, four 277V or four 347V branch circuit breakers. (page 666)



Dimmer Module

Six universal load digital dimmers suitable for 120V or 277V incandescent, fluorescent, low voltage, neon, cold cathode and non-dim loads.





DALI Control Module

Network controllers and power supplies for three DALI networks. (page 667)



Ballast Control Module

Eight channels of 0-10VDC dimming with integrated 20A relays for four-wire dimming ballasts. Available with 120V, 277V and 347V circuit breakers. (page 667)



Tap Feed Lug Option

Allows several Synergy enclosures to share a single main feed up to 400 amps three phase. (page 668)



Interactive Graphics

Monitor and control entire lighting system via virtual control panel screens created with simple on-board tools, or import graphic image backgrounds and floorplans to suit project requirements. (page 656)



Synergy® CONFIG Software

Configure, control and monitor Synergy® lighting control panels on-site or remotely via phone lines or WAN with this easy-touse Windows® application. (page 656)



...........

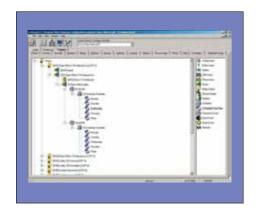
BACnet WAN

Allows over 4 million Synergy® panels to interact as an integrated system using BACnet, the ANSI and ISO standard for building automation.





SYSW CONFIG



Intended Use

PC-based Windows™ application used to configure a Synergy® system equipped with MLX controllers (page 665). Allows on-site or remote programming and configuration of all system parameters and schedules.

Features

Utilizes a familiar Windows™ graphical user interface to provide easy access to all system data. A simple tab-based navigation scheme allows the user to reach most configuration screens with a single click of the mouse. Access privileges for different software features can be set up for multiple users through the use of administrator-defined login IDs and passwords.

Online mode allows real-time monitoring and

override of input and load status as well as diagnostic functions.

Connection to the system may be made with the supplied RS-232 cable through the front-mounted DB-9 connector on any system controller, or directly over the BACnet™ network (optional network interface card may need to be installed on PC). A connection may also be made from a remote site using standard telephone lines via the PHONE option on the controller (see page 665) and a PC equipped with a telephone modem.

Minimum hardware requirements are a 266MHz Pentium™ II class PC running Windows™ 2000 or later operating system with 128 MB RAM, 30 MB free disk space and 800 x 600 video resolution.

Ordering Information

Series

SYSW CONFIG Synergy® configuration software

Example: SYSW CONFIG

Graphical Interface Software

SYSW GRAPHIC



Intended Use

Adds real-time control and monitoring capabilities to a Synergy® system through the use of a flexible graphical interface. Runs as a fully integrated component of the SYSW CONFIG software (above) installed on a desktop, laptop or panel PC connected to the system via an RS-485, Ethernet or wireless network connection.

Features

Provides intuitive and interactive point-andclick control of loads with status feedback and remote diagnostic capability. Simple setup and configuration options allow the creation of floorplan-based, button-based or combination

screens. Flexible control options allow graphical objects to directly monitor and override all system inputs (switches, photocells, digital stations), outputs (relays, dimmers, controllable breakers, DALI devices) room partitions and load groups. Integrated scheduling module allows the creation of temporary, PC-based schedules for special events.

Over 32,000 screens may be configured and the number of control objects per screen is limited only by screen resolution. Control screens may be user-configured in the field or ordered factory-prepared to client specifications via the SYSW SCREEN accessory.

Ordering Information

Series SYSW GRAPHIC Synergy® graphical user interface Example: SYSW GRAPHIC

(Order separately) Accessories **SYSW SCREEN** Factory-prepared SYSW GRAPHIC screen per user specifications. Indicate quantity of screens required.

> **LSA PC** PC workstation suitable for system configuration or graphics. Contact factory for mounting and touchscreen options.



Provide manual dimming and preset lighting control for architectural dimming applications. Offered in a variety of styles and architectural finishes suitable for virtually any application. May be daisy-chained together with SYRS digital remote stations (page 658) for multi-location control.

Features

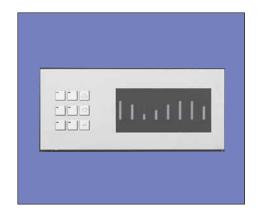
Functions – Master raise and lower buttons adjust the intensity of all lights dimmed from the station. Channel raise and lower buttons adjust the intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets and fade time is adjustable for each preset scene. Preset button saves and activates presets. Off function turns off all channels.

Integral dry contact closure interface allows access to 16 presets and master raise/lower and off functions for A/V systems and auxiliary equipment.

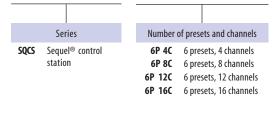
Installation: 4- and 8-channel stations mount in Lithonia #SQCS 5GB or RACO 699 five-gang backbox; 12- and 16- channel stations mount in Lithonia #SQCS 8GB backbox. Stations connect to a Synergy® system controller (page 665) via the four wire A4 control station network wire (page 670) which can be shared by up to 60 SQCS and SYRS (page 658) wallstations per system controller.

Classification - Class 2 low voltage device.





Ordering Information



NOTES:

1 Additional delivery time and/or cost may be associated

Example: SQCS 6P 4C BJ4 TR

	Finish	Wall	plate style
BJ4	Brushed stainless steel, black buttons	SD TR	Solid Translucent
WC2	Painted white, white buttons		
IE3	Painted ivory, ivory buttons		
BL4	Painted black, black buttons ¹		
BF4	Polished brass, black buttons ¹		

Accessories	(Order separately)

SQCS 5GB 5 gang backbox for 4-channel and 8-channel stations
SQCS 8GB 8 gang backbox for 12-channel and 16-channel stations
BKLE Engraved button cap (specify button color and wording)

<u>Series</u>	<u>Width</u>	Thickness	<u>Height</u>	<u>Weight</u>
SQCS 4C	10-1/8 (257)	1/4 (6)	4-5/8 (117)	2-1/2 (1.13)
SQCS 8C	10-1/8 (257)	1/4 (6)	4-5/8 (117)	2-1/2 (1.13)
SQCS 12C	15-7/16 (392)	1/4 (6)	4-5/8 (117)	4 (1.8)
SQCS 16C	15-7/16 (392)	1/4 (6)	4-5/8 (117)	4 (1.8)

 $\label{limeters} Dimensions are shown in {\it inches} \ ({\it millimeters}) \ or {\it pounds} \ ({\it kilograms}) \ unless otherwise noted.$

Intended Use

Used in conjunction with a Synergy® system equipped with SYSC MLX controllers (page 665) to provide system-wide configuration, monitoring and override of lighting zones

Features

8.0" full-color TFT touchscreen graphical interface may be configured with floorplan-based or button-based screens. Flexible control options allow graphical objects to monitor and override any system input, output or load group as needed to satisfy project requirements. Screens may be field or factory configured.

Listings

UL Listed to US and Canadian safety standards.

Graphical LCD User Interface





Ordering Information



SYA LCD 8.0" full color touch screen user interface (May be wall or panel mounted)¹

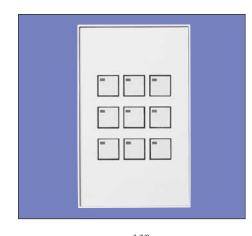
NOTES:

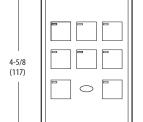
1 Other screen sizes and mounting options are available. Consult factory for information.

Example: SYA LCD



SYRS





Dimensions are shown in **inches (millimeters)** unless otherwise noted.

Intended Use

Provides a convenient means to add pushbutton controls for on/off, preset, raise/lower, partition control or other user interface to a Synergy® lighting control system. IR option adds an infrared receiver for use with SYWR wireless remote transmitters (below).

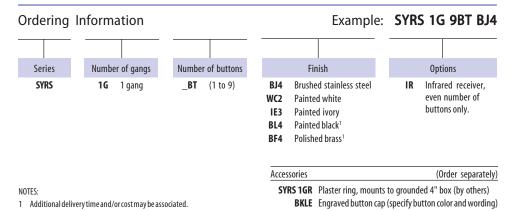
Features

Stations are single gang, screwless appearance and are available with 1 to 9 buttons in a variety of painted and metallic finishes. Button caps can be engraved with labels having up to two lines of text. Buttons may be field configured via the Synergy® system controller (page 665) to satisfy a wide variety of project requirements. Integral LED indicator on each button provides status. An

optional infrared receiver adds capability for operation and programming of station functions from an accessory SYWR wireless hand held transmitter or programmer (below).

Installation: wallstation mounts in Lithonia #SYRS 1GR or Steel City #52C13 plaster ring. Stations connect to a Synergy® system controller via the four wire SYA CABLEA4 (page 670) control station network wire which can be shared by up to 60 SYRS and SQCS (pages 657-658) stations per system controller.

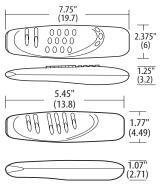
Classification – Class 2 low voltage device.



Infrared Wireless Transmitter and Scene Programmer

SYWR





 $Dimensions are shown in {\it inches (millimeters)} unless otherwise noted.$

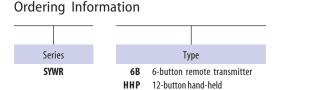
Intended Use

Used for wireless remote control of lighting functions in a Synergy® system. Operates in conjunction with the optional infrared receiver on the SYRS digital remote wallstation (above). The HHP version is useful in providing preset dimming control without the need for an SQCS control station.

Features

The SYWR 6B six-button transmitter provides remote activation of four presets, master raise/

lower and master on/off. The SYWR HHP handheld programmer permits the saving and activation of 12 lighting preset scenes, the manual control of up to 12 dimming channels, master raise/lower and master on/off. Preset scenes configured and saved with the HHP may be recalled from buttons on the wallstation.



programmer

Example: **SYWR HHP**



Ideal for applications which require manual and automatic control of fluorescent or HID lighting equipped with compatible 4-wire (0-10V) electronic dimming ballasts. Wall-mounted control station provides local on/off, manual dimming and automated daylight dimming control in localized applications. May be used as a standalone room controller or connected to a Synergy® system for timeclock control and integration with a building automation system.

Features

Microprocessor-based wallstation incorporates one of the most advanced and easiest to configure daylight harvesting algorithms in the industry. When used with Litronic® Series occupancy sensors (pages 672-673), all settings either adjust automatically to actual room usage or are set at the station, eliminating costly "ladder time" spent

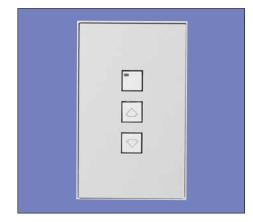
making adjustments on the sensors themselves. Local switching is provided by LPCS Series power pack(s) (page 674), eliminating the need for home run wiring back to panel mounted relays.

When connected to a Synergy® system, all station buttons, inputs and outputs are fully programmable from the Synergy® controller or software and, like all Synergy® inputs and outputs, fully accessible to BACnet™ building automation systems. This allows daylight harvesting and dimming to be fully integrated into the building control system more simply and economically than ever before. Room switching and dimming parameters can be easily incorporated into a time schedule, dimming preset, or progressive load shedding strategy for maximum occupant comfort and energy savings.

Classification – Class 2 low voltage device.

SYRS EXT

Digital Equinox®

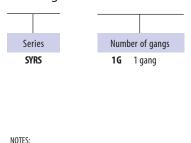


Example: SYRS 1G 3BT BJ4 EXT

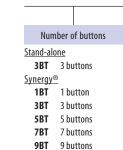
Type

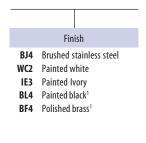
EXT External inputs for occ. sensor and photocell, outputs for LCPS and 0-10V dimming ballast.

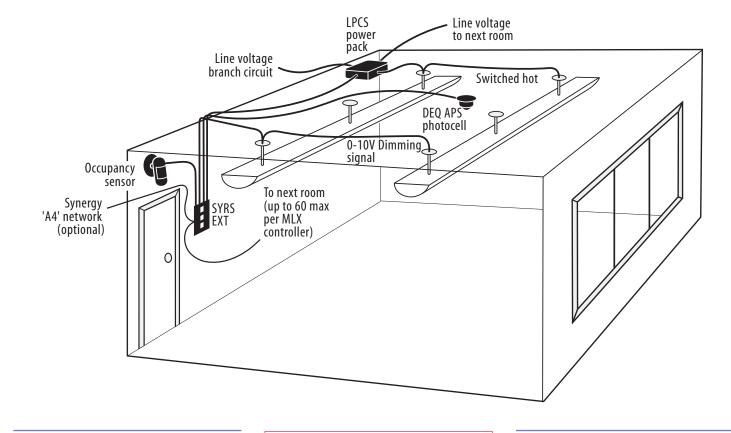
Ordering Information



1 Additional delivery time and/or cost may be associated.

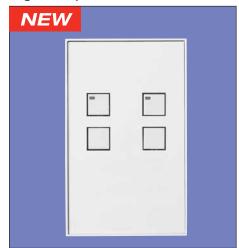






SYRS EXTDS

Digital Equinox®



Intended Use

Ideal for applications which require manual and automatic control of RT5™ fluorescent fixtures equipped with step-dimming ballasts, fluorescent fixtures wired for inboard/outboard switching or two independent lighting zones. Wallmounted control station provides local manual control with fully integrated occupancy sensor and photocell inputs for automated energy management. May be used as a stand-alone room controller or connected to a Synergy® system for timeclock control and integration with a building automation system.

Features

Microprocessor-based wallstation provides intuitive manual control of bi-level lighting. Compatible with all Litronic® Series occupancy sensors (pages 672-673) for easy code compliance in a variety of applications.

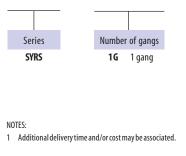
BJ4

Use LPCS Series power packs (page 674) to switch up to two full 20A circuits on each zone, eliminating the need for home run wiring back to panel mounted relays.

When connected to a Synergy® system, all station buttons, inputs and outputs are fully programmable from the Synergy® controller or software and, like all Synergy® inputs and outputs, fully accessible to BACnet™ building automation systems. This allows daylight harvesting and remote switching to be fully integrated into the building control system more simply and economically than ever before. Relays and buttons in each room can be easily incorporated into a time schedule, dimming preset or progressive load shedding strategy for maximum occupant comfort and energy savings.

Classification – Class 2 low voltage device.

Ordering Information



Number of buttons

Stand-alone

4BT 4 buttons

Synergy®

2BT 2 buttons

4BT 4 buttons

6BT 6 buttons

9BT 9 buttons

Finish

Brushed stainless steel, black buttons

WC2 Painted white, white buttons
IE3 Painted ivory, ivory buttons
BL4 Painted black, black buttons¹
BF4 Polished brass, black buttons¹

Example: SYRS 1G 4BT BJ4 EXTDS

Type

EXTDS External inputs for occ. sensor and photocell, two outputs for LCPS power packs.

Qty.2 LPCS RT5 fixture with step Line voltage dimming option power to next room packs Switched leg 'S1 Line voltage branch circuit Switched leg DEQ APS photocell Occupancy (sensor To next room Synergy 'A4' network (up to 60 max SYRS per MLX EXT DS (optional) controller)



Integrates a localized zone of fluorescent lighting equipped with compatible four-wire electronic dimming ballasts into a Synergy® system. Plenum-mounted DEQ LC load controller provides on/off, dimming and automated daylight dimming control for a single lighting zone when a wall-mounted control station is not desired.

Features

The DEQ LC installs in the plenum above the area to be controlled in place of the cover on a standard 4" or 5" square junction box.

DEQ LC load controller acts as a hub for the connection of the low voltage DEQ APS photocell (below), Litronic® occupancy sensor (pages 672-673), LPCS power control station (page 674) and 0-10V dimmable ballast control leads. If desired, a standard wall switch can be used for lo-

cal on/off operation making the control system totally unobtrusive to the user.

When connected to a part of a Synergy® system, the DEQ LC can share status, set point and override functions with all Synergy® system controllers, PC graphics and other building control systems through the BACnet™ protocol.

DEQ LC

Digital Equinox®



Ordering Information

Series

DEQ LC Digital Equinox® load controller

Example: **DEQ LC**

Intended Use

Low voltage sensor used to provide ambient light level information to Digital Equinox® load controller or wallstations for indoor daylight harvesting applications.

Features

This speciality photosensor is factory calibrated to accommodate the relatively low light levels normally found on the ceiling in office applications. 360° lens allows the sensor to average the room light level, reducing the effect of re-

flective or lightly colored items brought into the room or placed on a desk.

Classification – Class 2 low voltage device.

Analog Photosensor

DEQ APS

Digital Equinox®

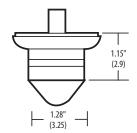


Ordering Information



Example: **DEQ APS IN**

Options CNPY Canopy mount to a 4" square junction box.



Dimensions are shown in inches (millimeters) unless otherwise noted.



LVMS WPM



NOTES

- 1 Plates larger than four gangs may have longer lead times.
- 2 Must equal the number of gangs (one switch per gang) or two times the number of gangs (two switches per gang).
- Two lines, seven characters per line for two switches per gang plate or two lines,12 characters per line for one switch per gang plate.

Intended Use

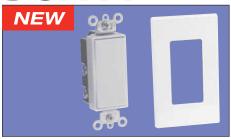
Lithonia LVMS switches and WPM wallplates provide a durable and attractive solution for configuring low voltage control switch assemblies. Switches snap-fit into the wallplates and are supplied with push-on connectors for low voltage wire connections. Wallplates are offered in a variety of sizes and configurations and may be engraved with customer-supplied labels. Use with Synergy® or SwitchPak® lighting control panels.

Classification – Class 2 low voltage device.

Ordering Information Example: LVMS PILOT WH Series **Options** Color LVMS Standard switch FILLER Snap-in blank filler (blank) ١V Ivory PILOT Pilot light switch **PILOT KEY** Key-operated switch WH with pilot Key operated switch KEY Ordering Information Example: WPM 1G 4MS WH Series Finish Number of gangs Number of openings Options WPM Brushed stainless $_{\mathsf{G}}$ 1 to 10¹ _MS 1 to 20² BS LE Custom

Low Voltage Decora® Switch

LVDS



Additional delivery time and/or cost may be associated with these premium

Intended Use

Lithonia LVDS switches and DSA wallplates provide a durable and attractive low voltage switch solution with a standard strap-mount form factor and designer styling. Switches may be

ganged with other Decora® style devices. DSA wallplates are offered in a variety of sizes and finishes. Use with Synergy® or SwitchPak® lighting control panels.

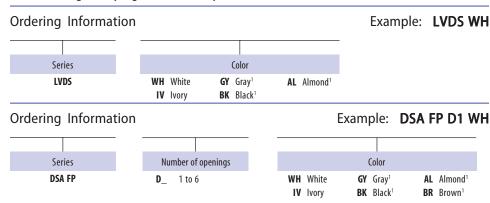
labeling³

Classification - Class 2 low voltage device.

Painted white

Painted ivory

WH



SSPL

SweepSwitch®



Intended Use

Provides individual local line voltage override control of lighting in time-based control schemes. Can be used manually to turn lighting on and off in the normal manner. Resets itself automatically to the off position in response to a programmed power interruption signal provided by the lighting control panel.

Works like a standard wall switch for on/off operation. Automatically resets to off when power is removed for approximately five seconds. Switch handle is lighted for easy location in the dark.

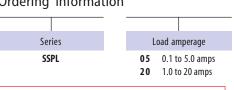
Wires to a 120V or 277V circuit switched by a Synergy® or SwitchPak® relay panel like a standard toggle switch, is not line/load sensitive and does not require a neutral connection.

Strap-mount device; mounts in a standard single gang switch box and uses a standard toggle opening wallplate (not included).

Listings

UL Listed. CSA Certified.

Ordering Information



Example: SSPL 05 277

Voltage 120V or 277V (dual voltage)



www.lithonia.com, keywords: LVMS, LVDS and SSPL

A unique lighting control system that integrates all aspects of lighting control into a single system platform. Combines architectural dimming, low voltage switching, lighting automation and energy management functions into a single scalable package capable of meeting the requirements of virtually any lighting control application.

Features

Combines the most popular aspects of lighting automation with full-featured low voltage switching and architectural dimming functions.

Switching and dimming functions may be controlled manually or scheduled on a weekly or calendar date basis. Functions may be set up using the integral LCD alphanumeric display and keypad or through the use of a personal computer

with optional software (page 656).

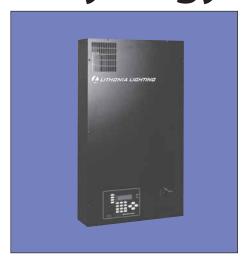
Panels can operate individually as stand-alone lighting controllers or optionally in a network configuration with distributed intelligence. A choice of system controllers (page 665) allows customization to best meet the requirements and budget of each project.

Provides capacity for a maximum of 48 relays or 30 dimmers per enclosure (pages 666-669). Enclosures can operate in a master/secondary configuration, providing control of up to 96 outputs from a single controller. Relays and dimmers are each rated for control of one lighting circuit at the listed voltage.

Listings

UL Listed to US and Canadian safety standards. California Title 24 certified.

Synergy®



Ordering Information

Example: SYELB 16RB1 18DBI MLX NBAR DMX

	I			
	Series		Output	quantity/type
SYES	Small enclosure, 2 modules max. Medium	_DB1	Qty. 120V 2KW dimmers with six 20A circuit breakers, six dimmers per module	_F
	enclosure, 4 modules max.	_DB2	Qty. 277V 3.5KW dimmers with four 20A circuit breakers, six	_FH
SYEL	Large enclosure, 6 modules max.	_DB3	dimmers per module Qty. 120V 1.5KW dimmers with	
SYESB	Small enclosure with breaker door, 2 modules max.	_DB4	six 15A circuit breakers, six dimmers per module Qty. 277V 3.3KW dimmers with four 15A circuit breakers, six	_FB1
SYEMB	Medium enclosure with breaker door, 4	_R	dimmers per module Qty. single pole, 120/277 20A, eight relays per module	_FB2
SYELB	modules max. Large enclosure with breaker	_RB1	Qty. single pole 20A relays, six 120V, 20A circuit breakers, eight relays per module	_FB3
	door, 6 modules max.	_RB2	Qty. single pole 20A relays, four 277V, 20A circuit breakers, eight relays per module Qty. single pole 20A relays, six	FB4
		_крэ	120V, 15A circuit breakers, eight relays per module	
		_RB4	Qty. single pole 20A relays, four 277V, 15A circuits, eight relays per module	_FB6
		_CB2	Oty. 277V constant breakers, four breakers per module	
		_CB1	Qty. 120V constant breakers, six breakers per module	_FB7
		_HB6	Qty. single pole 20A relays, four	

347V, 20A circuit breakers, eight

Qty. single pole 20A relays, four

347V, 15A circuit breakers, eight

relays per module

relays per module

NOTES:

- 1 Not available with MLC controller.
- Only required for _R and RB output types. All other modules come standard with RO option.
- ${\it 3} \quad Only required for _R and _R Boutput types. All other modules come standard with 0S option. R0 option included when 0S option specified.$

itity/type	
_ F	Qty. 0-10V dimmers with single- pole 20A relays, suitable for 120 277V, eight relays and dimmers per module
_FH	Qty. 0-10V dimmers with single- pole 20A relays, suitable for 120 277 and 347V, eight relays and dimmers per module
_FB1	Qty. 0-10V dimmers with single 20A relays, six 120V, 20A circuit breakers, eight relays and

- _FB3 Qty. 0-10V dimmers, single pole 20A relays, six 120V, 15A circuit breakers, eight relays and dimmers per module
- _FB4 Qty. 0-10V dimmers, single pole 20A relays, four 277V, 15A circuit breakers, eight relays and dimmers per module
- _**FB6** Qty. 0-10V dimmers, single pole 20A relays, four 347V, 20A circuit breakers, eight relays and dimmers per module
 - B7 Qty. 0-10V dimmers, single pole 20A relays, four 347V, 20A circuit breakers, eight relays and dimmers per module
 - H Qty. single pole 20A relays suitable for 120V, 277V or 347V operation, eight relays per module

Cont	roller type
MLC	Basic controller for stand- alone panel
MLX	operation Enhanced controller for network
SCP	panel operation Secondary panel, less controller

Main i	eea options
(blank)	No tap feed lugs, no main breaker
ML	Tap-feed
	lugs for
	powering up
	to four
	cabinets
	from a
	single main
	feed.
	Requires 2
	module
	positions;
	requires
	power modules
	modules with circuit
	breakers
MB	Main
MD_	
	breaker, 3 pole, specify
	# of amps
NDAD	•
NBAR	42 circuit
	neutral bar

Main food ontions

	Options
(blank)	Panel ships as components consisting of enclosure, power modules and controller
FA	Panel ships fully assembled (controller and relay modules factory-installed in enclosure)
DMX	Dimming interface required for connection to DMX512 control
PHONE	Telephone interface ¹
RO	Remote override, accepts contact closure to force all relays to full- on for essential lighting applications ²
OS	Occupancy sensor compatible inputs for dry contact switches or occupancy sensors ³
LEGACY	Allows control of legacy MiniPac®, Sequel® and MaxStar® dimmer cabinets¹

Accessories

(Order separately)

SYA SRE Recess kit for small enclosures
SYA MRE Recess kit for medium enclosures
SYA LRE Recess kit for large enclosures
LSA DOC Job specific submittal and documentation

LITHONIA LIGHTING

Shipping Weight: Small enclosure

Medium enclosure

Large enclosure

SYE



Intended Use

Provides housing and electrical support for the relay power modules, dimmer power modules and system controller in a Synergy® lighting control application.

Features

Synergy® system enclosures are shipped from factory stock in three sizes, accommodating either 2, 4 or 6 power modules (pages 666-668). The enclosures are fabricated from cold rolled steel, are designed for surface wall mounting and carry a NEMA 1 electrical rating.

An optional recessed mounting kit permits the enclosure to be flush-mounted in a six-inch thick wall.

All enclosures are shipped with a factory installed power supply with input terminals provided for either 120, 240 or 277 volts supply voltage. Enclosures intended for use with dimmer

modules are supplied with an internal thermostatically controlled cooling fan and a cover with hinged locking door to cover the power module mounted circuit breakers.

A variety of main lug, neutral bar and main breaker options (page 668) are available to configure Synergy® as a bussed three phase or single phase dimming/switching panel.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Series **SYE**

Capacity

- Small enclosure. 2 power module spaces. No
- circuit breaker door.

 M Medium enclosure. 4 power module spaces.
 No circuit breaker door.
- L Large enclosure. 6 power module spaces. No circuit breaker door.
- SB Small enclosure. 2 power module spaces. Provision for circuit breakers¹.
- MB Medium enclosure. 4 power module spaces.

 Provision for circuit breakers.
- LB Large enclosure. 6 power module spaces. Provision for circuit breakers.

Example: **SYEM 120/277**

Voltage

120/277 120/240/277V, 50 or 60Hz

operation

NOTES:

1 Maximum one dimmer module

Accessories (Order separately)

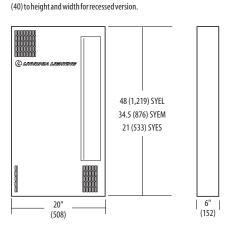
SYASRE Recess kit for small enclosures
SYAMRE Recess kit for medium enclosures

SYALRE Recess kit for large enclosures
SYPMB NBAR Neutral bar assembly. Requires one module

space (page 668).

SYPMB MB_NBAR Main breaker assembly with neutral bar, 3-pole.

Specify capacity in amps (30, 40, 50, 60, 70, 80, 90, 100). Requires one module space (page 668).



30 lbs. (14 kg)

40 lbs. (18 kg)

50 lbs. (23 kg)

Dimensions are shown in **inches (millimeters)** unless otherwise noted. Add 1.5



Provides user interface, display, clock and logic circuits for a Synergy® lighting control system enclosure and a means to set up lighting control functions, including manual switching, manual and preset dimming, schedules, astronomic time control, photocell switching and daylighting.

Features

Constructed as a plug-in chassis to enhance initial installation and serviceability. Used to set up and save operational features of the system. Provides support for external control devices (Synergy® digital remote stations (page 658), Sequel® preset dimming control stations (page 657), Digital Equinox® devices (page 659-660) and legacy dimmer cabinets (page 676) (optional).

User interface is designed for simple operation using the soft key format popular on automated teller machines. Large back-lit display provides text-based prompting and feedback for menu

navigation as well as status, diagnostic information and alarms.

Astronomic feature built into Synergy's internal clock will calculate sunrise and sunset times for use in the lighting schedules. The controller also can read values from accessory photocells and provide automatic switching or dimming of lighting based on the ambient light level.

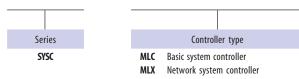
See the matrix below for additional features and capacities specific to the controller type selected.





Example: SYSC MLX

Ordering Information



NOTES:

- 1 No voice-prompted override with SYSC MLC.
- 2 Not available with SYSC MLC.

Features Selection Matrix

System Function	MLC Controller	MLX Controller	
Relay Capacity (No breakers)	48	48 (96 total with secondary cabinet)	
Relay Capacity (With breakers)	40	40 (80 total with secondary cabinet)	
Dimmer Capacity	30	30 (60 total with secondary cabinet)	
DMX512 Input	DMX channel-to-output configured via hardware settings	DMX channel-to-output configured via controller software	
Scheduling	11 schedules, 99 events	100 schedules, unlimited events	
Analog Inputs	YES	YES	
PC Support	YES	YES	
Script Logic	NO NO	YES	
Logging	NO NO	YES	
Priority Logic NO		YES	
Ethernet Network	NO NO	YES	
ARCNET Network	NO NO	YES	
Telephone Override	NO NO	YES, optional	
BACnet®	NO NO	YES	
RS232	YES	YES	
Modem	YES, optional	YES, optional	
Sequel® Stations	YES	YES	
Legacy Dimmers	NO NO	YES, optional	
Digital Remotes YES		YES	

Options

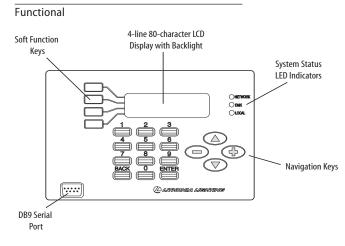
ISA Three 16-bit ISA expansion slots

PHONE Telephone interface for voice-prompted override and remote modem access (requires ISA option)¹

Theatrical dimming interface, required for connection to DMX512 control signal

LEGACY Allows control of one complete network (255 dimmers) of legacy MiniPac®, Sequel® and Max-Star® dimmer cabinets. Replaces master controller on existing systems.

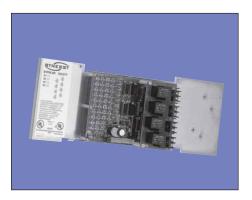
Accessories	(Order separately)
SYA SKIT	Permits two SYE enclosures to operate with a single controller.
SYSW CONFIG	Windows™ configuration software and cable (page 656).²
SYA CABLEA4	Class 2, four-conductor, plenum-rated network cable (page 670).
SYA CABLES2	Lithonia plenum-rated RS485 network cable ² (page 670).



Shipping Weight is 5.5 lbs. (2.5 kg).



SYPM 8R SYPM 8H



Intended Use

Used in conjunction with system enclosure and controller (pages 664-665) to provide manual and automatic on/off control of all types of lighting loads. Combine with line voltage dimmer (below), 0-10V and DALI (page 667) modules to create a complete lighting control solution for any application.

Features

Modules include eight 20A relays and are available for 120V to 277V and 120V to 347V applications. Unique zero-cross switching technology minimizes the destructive effects of switching large high-inrush loads, such as electronic fluorescent and HID. All relay module types may be ordered with optional 15A or 20A branch circuit breakers.

Modules are equipped with a pilot light output for each relay, eight low voltage contact switch inputs (see page 662 for available switches) and two analog inputs (see page 670 for photocells). Switch inputs on units ordered with the "OS" option are compatible for direct connection to occupancy sensors (pages 672-673). All inputs are fully configurable through the use of a system controller (page 665) to work with a wide variety of input devices and control any combination of system relays and dimmers. Once configured, all module settings are stored locally and the module will continue to operate in fail-safe mode even if the system controller is removed from the system.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Series

SYPM Module for use with external circuit breakers

SYPMB Module with circuit breakers

NOTES:

- 1 Only available with SYPMB 8H module.
- 2 RO option is standard for all modules with OS option; RO and OS options are standard for 8H modules.

Shipping weight is 4lbs. (1.9kg) without breakers and 9lbs. (4.1kg) with breakers.

8R Relay module with eight single-pole 20A relays for 120 or 277V operation

Type

8H Relay module with eight single-pole 20A relays for 120, 277 or 347V operation

Circuit breakers/voltage

(blank) No circuit breakers

- B1 Six 20A, 120V, 10KAIC breakers
- B2 Four 20A, 277V, 14KAIC breakers
- Six 15A, 120V, 10KAIC breakers
- **B4** Four 15A, 277V, 14KAIC breakers **B6** Four 20A, 347V, 14KAIC breakers¹
- **B7** Four 15A, 347V, 14KAIC breakers¹

Options²

Example: SYPM 8R

- RO Remote override. Accepts contact closure to force all relays on in essential lighting applications
- OS Occupancy sensor. Eight low voltage inputs for contact switches or occupancy sensors.

Line Voltage Dimmer Power Module

SYPMB 6D



Intended Use

Used in conjunction with system enclosure and controller (pages 664-665) to provide manual and automatic on/off and line voltage dimming control of a wide variety of lighting loads. Combine with relay (above), 0-10V and DALI (page 667) modules to create a complete lighting control solution for any application.

Features

Modules include six 20A line voltage dimmers with integral 15A or 20A circuit breakers and are available for 120V, 230V and 277V applications. Each dimmer is equipped with an air-gap relay and an architectural-grade toriodal filter.

All digital design ensures smooth, dependable

performance without field calibration. Unique combination of analog circuitry and digital signal processing techniques minimize the effects of poor power quality and prevent noticeable flicker and drift.

Individual dimmer response curves are field configurable to accommodate most lamp and ballast types via the system controller (page 665). Once configured, all module settings are stored locally and the module will continue to operate in fail-safe mode even if the system controller is removed from the system.

Listings

Example: SYPMB 6DB1

 $\label{thm:condition} \textbf{UL Listed to US and Canadian safety standards}.$

Ordering Information

Series Dimmers
SYPMB 6D Six dimmers per module

Circuit breakers/voltage

- **B1** Six 20A, 120V, 10 KAIC breakers
- B2 Four 20A, 277V, 14 KAIC breakers
- 3 Six 15A, 120V, 10 KAIC breakers
- **B4** Four 15A, 277V, 14 KAIC breakers
- **B5** Four 20A, 120V, 65KAIC breakers

Shipping weight is 22lbs. (10kg).



www.lithonia.com, keywords: SYPM and SYPMB 6D

LITHONIA CONTROL SYSTEMS

Intended Use

Used in conjunction with system enclosure and controller (pages 664-665) to provide manual and automatic on/off and 0-10V dimming control of compatible four-wire fluorescent and non-dim loads. Combine with DALI (below), relay and line voltage dimmer (page 666) modules to create a complete lighting control solution for any application.

Features

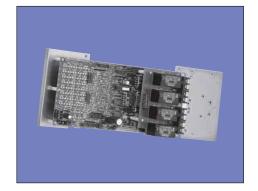
Modules include eight 20A relays and 0-10VDC outputs for dimming ballast control, are available for 120V to 277V or 120V to 347V applications and may be ordered with optional 15A or 20A branch circuit breakers. Unique zero-cross switching technology minimizes the destructive effects of switching high-inrush loads. Each 0-

10V output may be used to control up to 50 compatible four-wire ballasts. Modules are equipped with two analog inputs (see page 670) for photocells) and eight low voltage inputs suitable for dry contact switches (page 662) and occupancy sensors (pages 672-673). All inputs are fully configurable through the use of a system controller (page 665) to work with a wide variety of input devices and control any combination of system relays and dimmers. Once configured, all module settings are stored locally and the module will continue to operate in fail-safe mode even if the system controller is removed from the system.

Listings

UL Listed to US and Canadian safety standards.

SYPM 8F



Example: SYPM 8F

Ordering Information

Series

SYPM Module for use with external circuit breakers

SYPMB Module with circuit breakers

Type

8F Ballast module with eight single-pole, 20A relays and eight 0-10VDC analog outputs

Circuit breakers/voltage

(blank) No circuit breakers suitable for 120V or 277V operation

- **H** No circuit breakers suitable for 120, 277 or 347V operation
- **B1** Six 20A, 120V, 10KAIC circuit breakers
- B2 Four 20A, 277V, 14KAIC circuit breakers
- B3 Six 15A, 120V, 10KAIC circuit breakers
- **B4** Four 15A, 277V, 14KAIC circuit breakers
- 6 Four 20A, 347V, 14KAIC circuit breakers
- **B7** Four 15A, 347V, 14KAIC circuit breakers

Shipping weight is 4lbs. (1.9kg) without breakers and 9lbs. (4.1kg) with breakers.

Intended Use

Used in conjunction with system enclosure and SYSC MLX controller (pages 664-665) to provide manual and automatic control of compatible devices on a DALI network. Combine with 0-10V (above), relay and line voltage dimmer (page 666) modules to create a complete lighting control solution for any application.

Features

Module includes network controllers and power supplies for three DALI networks (loops) of up to 64 devices each. Connected DALI devices may be configured via the system controller (page 665) for status monitoring and prioritized control by any Synergy® user interface, timeclock schedule

or graphical workstation.

Listings

UL Listed to US and Canadian safety standards.

DALI Fluorescent Control Power Module

SYPM DALI



Ordering Information Example: SYPM DALI

Series

SYPM DALI Network controller and power supply for three DALI loops

Shipping weight is 4lbs. (1.8kg).

SYPMB NBAR SYPMB MB_NBAR



Intended Use

Used in conjunction with system enclosure (page 664) and power modules equipped with branch circuit breakers (pages 666 and 667) to facilitate connection of an individual Synergy® cabinet to a three-phase, four-wire or single-phase, three-wire main feed.

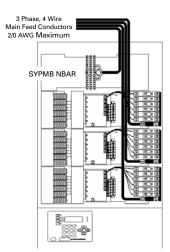
Features

Modules include a 42 circuit neutral bar rated for a #6 to 2/0 AWG main feed and #14 to #4 AWG branch neutral conductors. The neutral bar can be used in 120V, 277V or 347V applications.

The optional main breaker is available in capacities up to 100A and is rated for 120V/240V, 120/208V and 277/480V feeds and conductor sizes up to 2/0 AWG.

Listings

UL Listed to US and Canadian safety standards.



18 Dimmer, 3 Phase, 4 Wire Example

Ordering Information

Series SYPMB Main breaker

(blank) No main breaker

MB_ Main breaker, 3 pole, indicate capacity:
30, 40, 50, 60, 70, 80, 90 or 100 amps

Neutral bar

Neutral bar, 42 circuit

Tap Feed Modules

SYPMB ML SYPMB MB_ML SYPMB MN



Intended Use

Used in conjunction with system enclosures (page 664) and power modules equipped with branch circuit breakers (pages 666 and 667) to facilitate connection of up to four Synergy® cabinets to a single three-phase, four-wire or single-phase, three-wire main feed.

Features

ML modules include a three position power distribution block and optional main breaker. MN modules include a single position power distribution block and a 42 circuit neutral bar. All distribution positions include one main lug rated for a single #4 AWG to 500 kcmil conductor and four tap lugs rated for a single #14 to 2/0 AWG conductor each.

One ML module and one MN module is required for each application. All units are rated for 120V/240V, 120/208V and 277/480V applications.

Listings

UL Listed to US and Canadian safety standards.

3 Phase, 4 Wire Tap Feed Conductors
500 kcmil Maximum

SYPMB ML

SYPMB MN

S

Shipping weights are 5 lbs. (2.3 kg) without main breaker and 8 lbs. (3.6 kg) with main breaker.

Ordering Information

Series SYPMB

Main breaker

(blank) No main breaker

B_ Main breaker, 3 pole, indicate capacity: 30, 40, 50, 60, 70, 80, 90 or 100 amps

Example: SYPMB ML

Distribution lugs

ML Phase conductor tap feed lugs, 3 position

Neutral conductor tap feed lug with 42

circuit neutral bar



www.lithonia.com, keyword: SYPMB

Ideal for applications requiring circuit level remote control or lighting automation. Combines the powerful capabilities of the Synergy® lighting control system with the familiar footprint of a standard circuit breaker panel. This unique concept provides fully automated lighting control without the need to install both a relay panel and a branch circuit breaker panel. Also requires less wall space and will often provide a lower installed cost.

Features

Scheduling - Using integral astronomic clock capability, lighting can be fully automated to conform to a rotating seven-day schedule. Astronomic feature provides dusk/dawn operation, eliminating the need for photocells. Holiday schedule allows entry of up to 32 periods. Blinkwarn feature can blink lights automatically prior to a scheduled off.

Overrides – Use Synergy® digital remote stations (page 658) to provide manual control of any combination of breakers and override scheduled events. Each station can provide up to nine buttons with integral LED status indicators. A single four-wire cable is all that is required for connection of up to 60 (16 with MLC controller) stations. Optional switch input card also allows the use of traditional low voltage switches and other dry contact closures.

Networking - Panels can be networked together and used with other Synergy® switching and dimming panels to form a building-wide lighting control system. Networked systems offer the flexibility of central control, monitoring and programming via PC software. Integrates with building automation systems via native BACnet[™] protocol.

Capacity - Up to 42 circuits with 100, 225 or 400-amp bus. Controllable circuit breakers are available in 15, 20 or 30-amp single-pole or two-pole for 120/208-volt, 120/240-volt or 277/480-volt operation. Compatible with noncontrollable breakers.

Listings

UL Listed to US and Canadian safety standards.





Ordering Information

Se	ries	١	Voltage	Maxir	mum rating
SYBP18	18-pole capacity¹	P1 P2	120/208V 277/480V	100 225	100 amps 225 amps
SYBP30	30-pole capacity¹			400	400 amps
SYBP42	42-pole capacity ¹				

1 Order branch circuit breakers separately. See selection table at below.

2 Consult factory for additional main breaker selections and interrupt ratings

Main feed options² ML Main lug 100A main **MB100** breaker MB225 225A main breaker **MB400** 400A main breaker

Main feed locations Door type/mounting T Top feed SS Standard surface Door-in-door **B** Bottom feed DS SF

surface Standard flush

network panel operation Secondary panel. less controller

Controller type

Enhanced

controller for

Basic controller

for stand-alone

panel operation.

MLC

Options

Interface for DMX connection to DMX512 control^{3,4} PHONE Telephone

interface4 Eight low voltage switch and two analog inputs

> FA Factory-assembled interior with breakers and controllers⁵

LEGACY Interface to allow control of up to 62 MiniPac® distributed dimmer packs

Accessories (Order separately) **LSA DOC** Job specific submittal and documentation. **SYSW CONFIG** Windows[™] 95/98, 2000, NT or XP configuration software and cable (page 656). Order branch circuit breakers separately. See Branch Circuit Breaker Selection Table.

Branch Circuit Breaker Selection Table (Order as separate items.) Standard Breakers (Non-Controllable) Controllable Breakers **SYBPB BABRS1020** 120V, 20A, 1POLE SYBPB BAB1020 120V, 20A, 1POLE **SYBPB BABRS1030** 120V, 30A, 1POLE SYBPB BAB1030 120V, 30A, 1POLE SYBPB BABRS2020 120V, 20A, 2POLE SYBPB BAB2020 120V, 20A, 2POLE SYBPB BABRS2030 120V, 30A, 2POLE **SYBPB BAB2030** 120V, 30A, 2POLE **SYBPB GHQRS1020** 277V, 20A, 1POLE SYBPB GHB1020 277V. 20A. 1POLE **SYBPB GHQRS1030** 277V, 30A, 1POLE SYBPB GHB1030 277V. 30A. 1POLE SYBPB GHQRS2020 277V, 20A, 2POLE SYBPB GHB2020 277V, 20A, 2POLE SYBPB GHQRS2030 277V, 30A, 2POLE SYBPB GHB2030 277V, 30A, 2POLE

NOTES: Contact factory for additional breaker sizes.



NOTES:

3 For house lighting control only.

5 Must provide panel schedules.

4 Not available with MLC or SCP controllers.

LSA APS



Intended Use

A low voltage system component that provides ambient light level information to a Synergy® or SwitchPak® lighting control system for use in dimming, switching or daylighting applications.

Features

Units for outdoor or skylight applications mount to J-box via integral 1/2" nipple. Unit for indoor

applications mounts directly to ceiling tile via peel-and-stick adhesive backing or mounts to J-box using optional canopy. Units are factory-calibrated for the light levels indicted and connect directly to a Synergy® or SwitchPak® system analog input. Configuration, setpoints and deadband all are remotely configurable from the Synergy® or SwitchPak® controller keypad.

Classification – Class 2 low voltage device.

Ordering Information



Type/mounting

OL Outdoor (0-100 fc)

OH Outdoor (0-1,000 fc)

S Skylight/atrium (0-10,000 fc)

Indoor (0-100 fc)

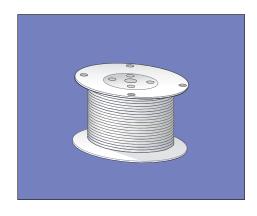
Options

CNPY Canopy mount to a 4" square junction box

Example: LSA APS OL

Network Cable

SYA



Intended Use

Plenum rated network cable suitable for use with industrial EIA RS-485 networks.

SYA CABLES2 – Fully compatible with Synergy® MLX (page 665) and SwitchPak® System Remote (SR option) (page 671) panel to panel networks.

SYA CABLEA4 -Fully compatible for use with Synergy® SQCS (page 657) and SYRS (page 658) digital networks.

Features

Single twist pair network cables with conductor color coding consistent with all Lithonia factory

wiring diagrams and installation instruction for trouble-free network installations.

SYA CABLES2 – For use with industrial EIA RS-485 networks.

SYA CABLA4 – Includes all required power and communication conductors. For use with industrial EIA RS-485 networks plus two #16 AWG conductors for 24V station power.

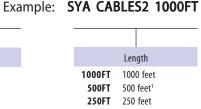
Listings

UL Listed, NEC type CL2P, rated for 75° C/300 Volts.

Ordering Information



Cable
CABLES2
CABLEA4



NOTES:

1 Additional delivery time may be associated.



LITHONIA CONTROL SYSTEMS

Intended Use

A compact and economical lighting control panel that offers simplified solutions for a broad range of lighting control applications. This timebased controller switches lighting on/off at preset times while managing a variety of low voltage inputs. Relays are rated to directly switch 20A lighting loads, eliminating the need for external contactors or relays.

Features

Simple Set-Up and Operation – Programming is guick and easy using the large LCD display with associated soft keys and automatic ReadyHelp™ on-screen help guide. Unique quick-assign keys provide one-touch program selections and instant override.

Scheduling - Individual daily schedules automatically repeat for seven-day lighting load operations. Holiday schedule accommodates 32 dates. Astronomic and automatic Daylight Savings Time operation.

Warn-before-off feature flashes lights prior to turning off.

Overrides - Eight low voltage switch inputs can be programmed to provide manual control of any combination of relays or override one to eight zones of scheduled lighting. Analog photocell input does not require remote calibrations.

System Remote Option - A single SwitchPak® provides a complete lighting control solution and can be used to control operation of additional units. This powerful option expands the capability of Switch-Pak® to a system level without adding the complexity often associated with networked systems.

Housing - NEMA 1 enclosure wall-mount with hinged locking cover. Separate line and low voltage compartments

Capacity - Eight single-pole, 20A rated relays for 120/277 dual voltage. Optional configurations of 600V two-pole relays.

Listings

UL Listed to US and Canadian safety standards.

SPAK



Ordering Information

Series		Relays/poles	
SPAK	4S For 4S2D For	yht single-pole 20 <i>l</i> ur single-pole 20A ur single-pole 2 d two double-pol <i>I</i> s	relays OA relays
	4D For	ur double-pole 30	A relays

Example: SPAK 8S 120/277 Voltage Options 120/277 120/277 dual voltage System remote¹

Accessories	(Order separately)
LSA APS	Analog photosensor (page 670)
SYA CABLES2	System remote network cable for plenum applications (page 670)
LVMS/WPM	Low voltage override switches (page 662)
LVDS/DSA	Decora® style low voltage override switches (page 662)

NOTES:

Low Voltage Remote Station

LVRS

The LVRS low voltage remote station is ideal when one to nine buttons are required for a compact location. Buttons may be programmed at SwitchPak® panel for override control of individual or multiple relays.

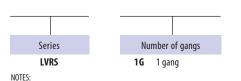
Intended Use

Features

Stations are single gang, screwless appearance and are available with 1 to 9 buttons in a variety of painted and metallic finishes. Optional LED pilot lights provide positive feedback of button operation. Button caps can be engraved with labels having up to two lines of text.

Installation: wallstation mounts in a grounded Lithonia #SYRS 1GR or Steel City #52C13 plaster ring. Stations connect to SwitchPak® panel switch inputs with #18 - #14 AWG low voltage Class 2 conductors.

Ordering Information



 $1\quad 0 ther finishes available; contract your local Lithonia representative or the Lithonia factory for more information.$

Number of switches

1 to 9

SW

Finish¹ Brushed stainless steel, black buttons

Painted white, white buttons Painted ivory, ivory buttons IE3

Options PL 24V pilot indicators

www.lithonia.com, keywords: SPAK and LVRS



Example: LVRS 1G 2SW BJ4 PL

¹ Specify SR option for all SwitchPak® panels to be linked together.

Directional Wall or Ceiling Mount Occupancy Sensors

LMT H



58-16--11.5-0-11.5-16--31-58-8-4 SIDE VIEW

Intended Use

Provides automatic on/off lighting control for indoor applications where a directional occupancy sensor is required. Use with LPCS power pack (page 674), Synergy® (pages 654-669) or Switch-Pak® (page 671). Versions are available for a wide variety of coverage patterns for hallways, warehouses and rooms with pendant fixtures.

Features

Directional sensor heads are low voltage and mount quickly to a wall or ceiling using the supplied "twist and lock" bracket. High motion sen-

sitivity and automatically adapting digital circuitry provide "install and forget" simplicity. Integrated photocell may be used to hold lights off when sufficient daylight is available.

LMT – Multi-Technology Sensor Head. Ultrasonic and infrared sensing provide maximum sensitivity to small movements and high immunity to false triggering. 500ft² coverage for minor motion, 1200ft² coverage for major motion when mounted at an 8ft height.

Listings

UL Listed to US and Canadian safety standards.

Ordering Information

Series

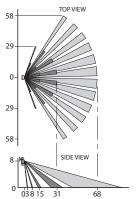
LMT H Multi-technology directional sensor head

Example: LMT H

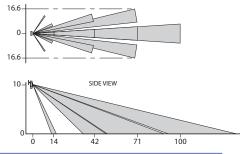
LIRC



Field of View (in feet) LIRC H



Field of View (in feet) LIRC LR H



Intended Use

Provides automatic on/off lighting control for indoor applications where a directional occupancy sensor is required. Use with LPCS power pack (page 674), Synergy® (pages 654-669) or Switch-Pak® (page 671). Versions are available for a wide variety of coverage patterns for hallways, warehouses and rooms with pendant fixtures.

Features

Directional sensor heads are low voltage and mount quickly to a wall or ceiling using the supplied "twist and lock" bracket. High motion sensitivity and automatically adapting digital circuitry provide "install and forget" simplicity. Integrated photocell may be used to hold lights off when sufficient daylight is available.

LIRC H – Infrared Sensor Head. Passive infrared sensor head ideal for areas where it can be

mounted with an unobstructed view of the occupants. 850ft² coverage for minor motion, 2500ft² coverage for major motion when mounted at an 8ft height.

LIRCLR H – Infrared Hallway Sensor. Passive infrared sensor head ideal for long, relatively narrow areas, such as aisles, hallways and corridors. 100ft long x 14ft wide coverage pattern when mounted at a 10ft height.

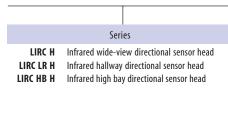
LIRC HB H – Infrared High-Bay Sensor. Designed for long, narrow spaces where a high mounting height is required, such as warehouse aisles and factory storage racks, this passive infrared sensor head provides long range and high sensitivity. 55ft long x 7ft wide coverage pattern when mounted at a 30ft height.

Listings

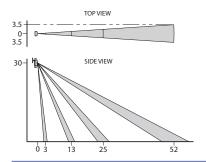
Example: LIRC H

UL Listed to US and Canadian safety standards.

Ordering Information



Field of View (in feet) LIRC HB H





www.lithonia.com, keywords: LMT and LIRC

Omni-directional Ceiling Mount Occupancy Sensors

Intended Use

Ceiling mount sensor heads provide automatic on/off lighting control for indoor applications where an occupancy sensor with a 360° coverage pattern is required. Use with an LPCS power pack (page 674), Synergy® system (pages 654-669) or SwitchPak™ relay panel (page 671). Multi-technology, ultrasonic and passive infrared sensors are available for a wide variety of applications.

Features

Omni-directional sensor heads are low voltage and mount quickly to a variety of ceiling surfaces using the supplied hardware. High motion sensitivity and advanced, automatically adapting digital circuitry provide "install and forget" simplicity. Integrated photocell may be used to hold lights off when sufficient daylight is available.

LMTO H – Ultrasonic and infrared sensing provide maximum sensitivity to small movements and high immunity to false triggering. Perfect for classrooms, large offices, conference rooms and cafeterias. 1000ft² coverage for minor motion, 2000ft² coverage for major motion when mounted at an 8ft height.

LUSO H – Ultrasonic sensors provide excellent sensitivity to small movements without the requirement of an unobstructed view of the occupants. Use for storage areas, warehouses, cafeterias and public areas in commercial facilities.

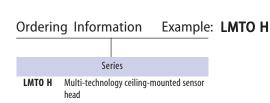
1000ft² coverage for minor motion, 2000ft² coverage for major motion when mounted at an 8ft height.

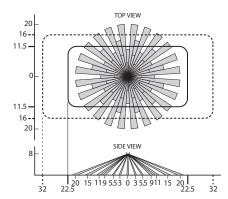
LIRO H – Passive infrared sensor with a high immunity to false triggering that works well in lobbies, closets, wide hallways and other areas with an unobstructed view of the sensor. 1500ft² coverage for major motion when mounted at an 8ft height.

Listings

UL Listed to US and Canadian safety standards.

Multi-Technology Sensor Head

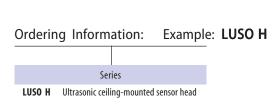


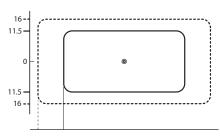


NEW

LMTO H

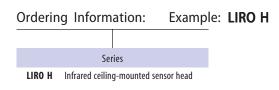
Ultrasonic Sensor Head

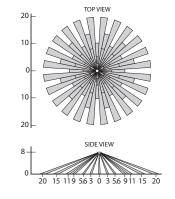




LUSO H

Infrared Sensor Head







Minor Motion, IR Major Motion, IR

Minor Motion, Ultrasonic

Major Motion, Ultrasonic

LPCS



Intended Use

Switches line voltage lighting loads and provides low voltage power to Litronic® occupancy sensor heads (pages 672-673) and Digital Equinox® stations (pages 659 & 660). The DCO option can be used to send a dry contact status signal to HVAC or building automation systems.

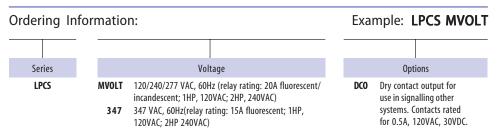
Features

Integrated 24VDC Class 2 supply and power relay provide a convienient and durable means for

switching lighting loads when distributed relay control is desired. Power relay utilizes zero-cross switching for extended life and is rated for fluorescent, incandescent, low voltage and motor loads. Integral 24V power supply is short-cicuit protected and compatible with all Litronic® occupancy sensors and Digital Equinox® stations. Mounts with integral threaded nipple to ballast cavity or junction box knock out.

Listings

UL Listed to US and Canadian safety standards.



Wall-Switch Replacement

LIRW

Decora®



Intended Use

Designed to replace a standard wall switch and provide automatic lighting control in a variety of indoor applications requiring on/off and bi-level switching control. Sensors will always automatically turn off lights after no motion is detected for a period of time, but may be configured to operate in either "manual on" or "automatic on" modes.

Single Switch – Use for applications that require only a single zone of on/off control, such as private offices, employee lounges and conference rooms. May be used in conjunction with a DSD or ISD Series dimmer (pages 677-679) when continuous dimming control with automatic on/off operation is desired.

Dual Switch – Perfect for use with RT5™ fixtures with the step-dim option, this sensor provides dual switched outputs for high/low, inboard/outboard, or two zone control. Perfect for private of-

fices, classrooms, conference rooms and day care centers. Photocell calibration and sensor timeout may be set to adjust automatically based on actual occupant usage.

Features

Advanced passive infrared occupancy sensor detects movement over 2000ft² with a 180° line-of-sight coverage pattern. One (LIRW) or two (LIRW DS) front-mounted switches provide independent manual override control for occupants. Integrated photocell may be used to hold lights off when sufficient daylight is available.

Low profile Decora® design matches DSD, ISD (pages 677-679) and LVDS (page 662) Series devices and is compatible all with DSA Series face-plates (page 677).

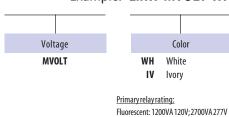
Listings

UL Listed to US and Canadian safety standards.

Ordering Information:



Example: LIRW MVOLT WH



Fluorescent: 1200VA 120V; 2700VA 277V Incandescent: 800W 120V Secondary relay rating: Fluorescent: 800VA 120V; 1200VA 277V Incandescent: 800W 120V



Provides manual and preset dimming of most lamp types in wallbox applications. Offered in a variety of styles and architectural finishes. May be used singly, with matching remote stations or interfaced with external systems.

Features

Master raise and lower buttons adjust intensity of all lights dimmed from station. Channel raise and lower buttons adjust intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets. Fade time is adjustable for each preset scene. Preset button saves and activates presets. Off function turns off all lighting. Low-end and high-end dimming limits

and dimmer curves are adjustable per channel.

Terminals on rear of station allow access from SQRS remote stations or momentary dry contact closures to: six presets, master raise/lower, channel raise/lower, select and off.

Overall maximum is 2000VA. Maximum per output (1-4) is 600VA electronic ballast or 800VA incandescent, magnetic low voltage and magnetic ballast, 600VA electronic two- and threewire fluorescent ballasts. Mounts in five-gang masonry wall box.

Listings

UL Listed to US and Canadian safety standards.



Seguel® IDC

Voltage

120



Example: SQIDC 2000 6P 4C BJ4 TR 120

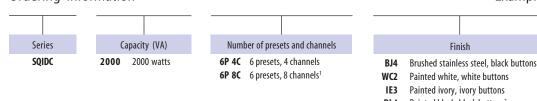
Wallplate style

Translucent

SD Solid

TR





Painted white, white buttons Painted ivory, ivory buttons BL4 Painted black, black buttons² BF4 Polished brass, black buttons²

(Order separately)

Finish

- on

> <u>Series</u> Width **Thickness Height** 10-1/8 (257) 1/4 (6) 4-5/8 (117) SQIDC

 $Dimensions are shown in {\bf in ches (millimeters)} unless otherwise noted.$

NOTES:

8-channel unit requires Sequel® MiniPac® dimmer cabinet (page 676) for control of loads on channels 5-8.

Intended Use Activates control functions in conjunction with the Sequel® IDC wallbox dimming system.

2 Additional delivery time and/or cost may be associated

Accessories SOCS 5GB 5-gang backbox for 4C and 8C stations.

BKLE Engraved button caps. Specify wording.

Remote Stations

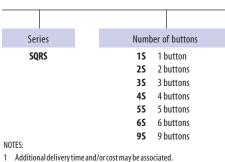
Operation - Functions include preset recall, channel raise/lower, master raise/lower and off.

Features

Installation - Mounts to a Lithonia SYRS 1GR box or 2" wide single-gang switch box.

Classification - Class 2 low voltage device.

Ordering Information



Example: SQRS2S BJ4

	Finish
BJ4	Brushed stainless steel, black buttons
WC2	Painted white, white buttons
IE3	Painted ivory, ivory buttons
BL4	Painted black, black buttons ¹
BF4	Polished brass, black buttons ¹

www.lithonia.com, keywords: SQIDC and SQRS

Accessories (Order separately) SYRS 1GR 1-gang plaster ring. **BKLE** Engraved button caps. Specify wording.

Series Width Thickness **Height** Weiaht

1/4 (6)

SORS

2-7/8 (73)

Dimensions are shown in inches (millimeters) or pounds (kilograms) unless otherwise noted.



4-5/8 (117)

1/2 (.2)

SQMPDC

MiniPac®



Intended Use

Increases the individual channel capacity for SQIDC wall box dimming system (page 675) or may be used as a remote dimmer pack for a Synergy® system equipped with the Legacy option (page 665).

Features

When used with SQIDC: An integral switch matrix allows dimmers to be flexibly assigned to SQIDC station channels. Up to four dimmer pack may be used per SQIDC system.

When used with Synergy®: MLX controller with Legacy option required; up to 64 dimmer packs may be connected to each controller. Dimmers are fully configurable from system controller and software and may be controlled by any Synergy®

user interface or schedule.

High quality architectural-grade filters minimize lamp noise. Dimmers are cooled through natural convection flow provided by front cover venting and are available with or without positive air gap on/off relays.

Installation – NEMA 1 enclosure is suitable for surface or flush wall mounting. Dimmers are fed from individual 15A or 20A branch circuits. All dimmers in a single pack must be fed from a single phase; no phase relationship between different dimmer packs or SQIDC circuits. Connects to Synergy® cabinet or SQIDC via Lithonia SYA CABLES2 network wire (page 670).

Listings

UL Listed to US and Canadian safety standards.

Ordering Information



Number of dimmers

- 2 2 dimmers
- 4 4 dimmers

Dimmer type

- UX Universal incandesent; two wire fluorescent
- Universal incandesent; and two, three and four-wire fluorescent; non-dim

Capacity per dimmer 2 2000VA, 120V

4000VA, 277V

Type Voltage

120 120V (single phase) **277** 277V (single phase)

Options

Example: SQMPDC 4UX2 S2 120

EM For essential lighting loads. All dimmers automatically set to full on upon loss of normal power. Type 4UX2 or 4UX4 cabinets only. Transfer of input fee by others.

Remote Dimmer Modules

RDM



Intended Use

Used to boost the capacity of an ISD (page 678), DSD (page 677), or SQIDC (page 675) Series wall-box dimmer. Also allows an ISD Series dimmer to control three-wire fluorescent dimming ballasts and SQIDC dimmers to control four-wire fluorescent dimming ballasts.

Features

Available for a wide variety of dimming load

types. Models for use with line voltage loads include an integral RFI filter and may be surface or flush mounted using a 1900 box and 2-gang raised cover. All models are phase independent of the control device and equipped with a lowend trim adjustment.

Listings

Example: **RDMI 2000 120**

UL Listed. CSA Certified. NOM Certified.

Ordering Information

Series

RDMI 2000 120 1920 W/VA, 120V, 50/60Hz for incandescent, magnetic low voltage, neon and cold-cathode.

RDMF 2000 120 1920 VA, 120V, 50/60Hz for Advance Mark 10[™] and Lutron Hi-Lume®, Tu-Wire® and ECO10[™] fluorescent RDMI 3000 277 3000 VA, 277V, 50/60Hz for Advance Mark 10[™] and Lutron Hi-Lume®, Tu-Wire® and ECO10[™] fluorescent

RDMBC 120/277 1920VA at 120V, 4400VA at 277V, 50/60Hz for 0-10VDC fluorescent ballasts only. Mounts to a grounded 4" outlet box.

Load type	Load voltage	Controller	RDM
Incandescent, magnetic low voltage, neon	120V	SQIDC or ISD 600 I 120	RDMI 2000 120
Advance Mark 10™, Lutron Tu-Wire®	120V	SQIDC, ISD 600 ADEZ 120,	RDMF 2000 120
Advance Mark 10™, Lutron Tu-Wire®	277V	or DSD 500 ADEZ 120	RDMF 3000 277
Lutron Hi-Lume®/ECO10™	120V	COIDS ISD COO 120	RDMF 2000 120
Lutron Hi-Lume®/EC010™	277V	SQIDC or ISD 600 I 120	RDMF 3000 277
0-10VDC Fluorescent	120V or 277V	SQIDC or ISD 600 I 120	RDMBC 120/277



DSD Series dimmers provide smooth full-range dimming of fluorescent fixtures equipped with the Advance Mark 10™ dimming ballast. Dimmers have a strap-mount design and may be used individually or ganged together for multiple load applications. These dimmers are ideally suited for use with Lithonia fixtures with the ADEZ dimming ballast option.

Features

Operation - Linear slide dimming with separate rocker switch for preset or three-way on/off operation and single location dimming.

Installation - All dimmers mount in standard single-gang switch box and can be ganged together using multi-gang wallplates (see below).

Compatability – Two-wire dimming ballasts as indicated on page 680.

Listings

Ballast type

Advance Mark 10™ fluorescent

UL Listed. CSA Certified. NOM Certified.





Example: DSD 500 ADEZ 277 IV

'	
Voltage	Color
120 277	IV Ivory ¹ WH White ¹

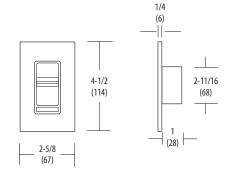
Ordering Information



NOTES:

 $1 \quad Includes \, standard \, Leviton \, Decora @ \, wall plate. \, Order \, screwless \, or \, multi-gang$ DSA wallplates separately below.

Advance Mark 10™ two-wire ballasts, 120V and 277V



Dimensions are shown in inches (millimeters) unless otherwise noted

277V

ADEZ

Advance		Max. no. ballast/dimmer
Mark 10™	Lamp	One-gang or
catalog no.	type	multi-gang
VEZ-2Q26	CFM26W	8
VEZ-1T32	CFM32W	12
VEZ-1T42	CFM42W	10
VEZ-1Q18	CFQ18W	22
VEZ-2Q18	CFQ18W	11
VEZ-132	F32T8	13
VEZ-2S32	F32T8	6
VEZ-3S32	F3T8	4
VEZ-154	F54T5/H0	7
VEZ-2S54	F54T5/H0	4
VEZ-1TTS40	FT40W	12
VEZ-2TTS40	FT40W	6

120V

Capacities and Derating

Advance	Max. n	o. ballast/d	<u>limmer</u>
Mark 10™	Lamp	One-	Multi-
catalog no.	type	gang	gang
REZ-1T32	CFM32W	13	10
REZ-1T42	CFM42W	10	8
REZ-1Q18	CFQ18W	23	18
REZ-2Q18	CFQ18W	11	9
REZ-2Q26	CFQ26W	8	6
REZ-2T42	CFTR42W	5	4
REZ-132	F32T8	13	11
REZ-2S32	F32T8	6	5
REZ-3S32	F32T8	4	3
REZ-154	F54T5/H0	7	6
REZ-2S54	F54T5/H0	3	3
REZ-1TTS40	FT40W	12	9
REZ-2TTS40	FT40W	6	4

For higher capacity, use either ISD ADEZ (page 678) or DSD with RDM remote dimmer (page 676).

Architectural Wallplates for Decora® Products

Intended Use

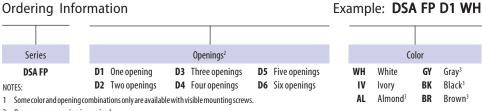
Provides an architecturally-styled finish treatment for DSD, ISD, LVDS and LIRW Series products. Wallplates are available for individual devices and multi-gang applications with up to six devices.

Features

Low profile wallplates are compatible with DSD, ISD, LVDS and LIRW Series products and other Decora® style devices.

Adapter strap permits mounting to the device without exposed fasteners1.

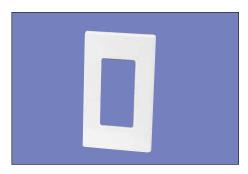
Ordering Information



2 One gang per opening is required.

 $3\quad Additional\, delivery\, time\, and/or\, cost\, may\, be\, associated\, with\, these\, premium\, colors, and the second control of the control of th$

DSA FP





ISD



Intended Use

The ISD Series wallbox dimmers are designed to provide smooth full-range dimming for a variety of loads. Products are available for incandescent, low voltage, electronic low voltage and fluorescent two-wire and four-wire load types. The ISD dimmers can be used in place of a standard wall switch to provide on/off and dimming lighting control.

Features

Fluid slide movement allows fine adjustment of light level over the entire dimming range. Separate on/off switch permits switching of lighting at a preset level. An integral LED indicator on illuminated dimmers turns on when the switch is

off to facilitate switch location in a dark room. Can be used with standard three-way or four-way switch for multi-location switching. ISD Series dimmers are compatible with Leviton Decora® Series wallplates. Single location, linear slide dimming with separate push on/off switch for preset three-way and four-way switching. Available in standard white and ivory and supplied with a matching single-gang Decora® style wallplate. Snap-on Decora® style wallplate. Snap-on Decora® style wallplate color change kits available (gray, black, brown, almond, white and ivory). Devices can be multi-gang mounted (optional multi-gang DSA wallplate required – see page 677).

Listings

UL Listed. CSA Certified. NOM Certified.

Ordering Information

Incandescent (supplied with white and ivory faceplates)

ISD 600 I 120 WH/IV Illuminated slide dimmer; 600W, 120V, 60Hz

ISD 1000 I 120 WH/IV Illuminated slide dimmer; 1000W, 120V, 60Hz

Catalog number

Magnetic low voltage (supplied with white and ivory faceplates)

ISD 600 LV 120 WH/IV Illuminated slide dimmer; 600VA,

120V, 60Hz

ISD 1000 LV 120 WH/IV Illuminated slide dimmer; 1000VA, 120V, 60Hz

Electronic low voltage (supplied with white and ivory faceplates)

ISD 400 ELV 120 WH/IV Illuminated slide dimmer; 400VA,

120V, 60Hz Fluorescent Mark 10™ (supplied with white and ivory faceplates)

ISD 600 ADEZ 120 WH/IV Slide dimmer; 600VA, 120V, 60Hz ISD 1000 ADEZ 120 WH/IV Slide dimmer; 1000VA, 120V, 60Hz

ISD 1200 ADEZ 277 WH/IV Slide dimmer; 1200VA, 277V, 60Hz
Fluorescent four-wire (supplied with white and ivory faceplates)
ISD BC 120/277 WH/IV Ballast controller; 120/277V

Example: ISD 600 LV 120 WH/IV

Accessories	(Order separately)
ISD CCKIT	Color change kit, specify WH (White), IV (Ivory), GY (Gray), BR (Brown), BK (Black) or AL (Almond).
DSA FP D	Low profile thermoplastic wall-plate for ISD or Leviton Decora® compatible devices (page 677).

Maximum load/dimmer									
ISD I/ISD LV/ISD ELV									
	One Two More than								
Catalog Number	gang	gang	two gang						
ISD 1000 I 120	1000W	800W	700W						
ISD 600 I 120	600W	500W	400W						
ISD 1000 LV 120	1000VA	800VA	700VA						
ISD 600 LV 120	600VA	500VA	400VA						
ISD 400 ELV 120	400VA	350VA	250VA						

Maximum number of ballasts/dimmer

120V Advance Mark 10™

120V Advance Wark 10								
		ISD 600 ADEZ 120			<u>ISD 1000 ADEZ 120</u>			
Catalog Number	Lamp type	One gang	Two gang	More than two gang	One gang	Two gang	More than two gang	
REZ-1T32	CFM32W	15	13	10	26	20	18	
REZ-1T42	CFM42W	12	10	8	20	16	14	
REZ-1Q18	CFQ18W	27	23	18	46	37	32	
REZ-2Q18	CFQ18W	13	11	9	23	18	16	
REZ-2Q26	CFQ26W	10	8	6	17	13	12	
REZ-2T42	CFTR42W	6	5	4	10	8	7	
REZ-132	F32T8	16	13	11	27	22	19	
REZ-2S32	F32T8	8	6	5	13	11	9	
REZ-3S32	F32T8	5	4	3	9	7	6	
REZ-154	F54T5/H0	9	7	6	15	12	11	
REZ-2S54	F54T5/H0	4	3	3	7	6	5	
REZ-1TTS40	FT40W	14	12	9	24	19	17	
REZ-2TTS40	FT40W	7	6	4	12	9	8	

Maximum number of ballasts/dimmer

277V Advance Mark 10™

		ISD 1200 ADEZ 277						
Catalog Number	Lamp type	One gang	Two gang	More than two gang				
VEZ-2Q26	CFM26W	20	20	20				
VEZ-1T32	CFM32W	30	30	30				
VEZ-1T42	CFM42W	24	24	24				
VEZ-1Q18	CFQ18W	54	54	54				
VEZ-2Q18	CFQ18W	27	27	27				
VEZ-2T42	CFTR42W	12	12	12				
VEZ-132	F32T8	33	33	33				
VEZ-2S32	F32T8	16	16	16				
VEZ-3S32	F32T8	11	11	11				
VEZ-154	F54T5/H0	18	18	18				
VEZ-2S54	F54T5/H0	9	9	9				
VEZ-1TTS40	FT40W	28	28	28				
VEZ-2TTS40	FT40W	14	14	14				



Connects directly to up to 80 compatible fourwire dimming ballasts with Class 2 low voltage control wire. Photocell automatically maintains a constant preset lighting level.

Features

Operation – Automatically maintains a constant preset lighting level in response to the availability of natural daylight (daylighting) and/or automatically maintains a constant preset light level over the life of the lighting system (lumen depreciation maintenance). 7-140 footcandles response range \pm 1% at 70°F. Immediate or extended fade time response to light level changes.

Housing – Low-profile, UV-stable, white ABS housing with flat Fresnel lens.

Installation – Mounts directly to the ceiling tile. Class 2 low voltage control wire.

Compatability – Four-wire dimming ballasts as indicated on page 680.

Classification - Class 2 low voltage device.

ISD DPC



Ordering Information

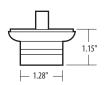
Series

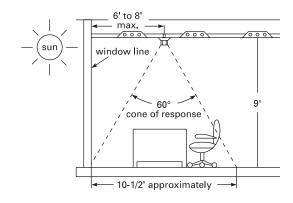
ISD DPC Dimming photocell

Example: ISD DPC

Applications:

Install near fixtures being controlled or central to circuit being controlled. Cone of response of photocell (60°) must contain area that is lit by fixtures being controlled. Cone of response area must not contain any artificial uplight (i.e., desk lamp). For day light harvesting, photocell should be installed six to eight feet from window line, depending on ceiling height, so that cone of response only contains work area inside actual window line. Can be used with an ISD BC ballast controller for automatic and manual dimming control.





Fluorescent Dimming Guide

Four-wire, 0-10VDC control signal and two line voltage (Example: Osram Helios™)

Ballasts have Class 2 control wires (purple and gray) to connect low voltage control devices such as Equinox® dimming control products.

Advantages:

- Control zones are created by interconnecting the low voltage wires and are not affected by the line voltage circuiting of the fixtures.
- Simple low voltage control devices such as the ISD DPC dimming photocell are self-powered by the ballast.
- Small control devices can control a large number of ballasts since they are not supplying power to the loads.
- · Choice of ballast suppliers.
- · Lowest cost for 1% dimming.

Disadvantages:

Requires additional controls.

Two-wire line voltage, 0-120 VAC or 0-277 VAC (Example: Advance Mark 10°)

Ballasts have only one hot and one neutral wire and are directly controllable by fluorescent wallbox dimmers or universal system dimmers.

Advantages:

- Requires no additional wires, the black and white input leads provide for power and dimming.
- Wide dimming range (100-1%).
- Lowest installed cost.

Disadvantages:

 Minimum input voltage must be assured, requires dimmers with low-end trim adjustments or factory preset low-end adjustment. Three-wire line voltage, 0-120 VAC or 0-277 VAC (Example: Lutron Hi-Lume)

Ballasts are powered by a non-dimmed line voltage input and controlled via a second variable line voltage input.

Advantages:

- · Line voltage control wiring
- Wide dimming range (100-1%).

Disadvantages:

- Requires a 2nd input power wire connection.
- Minimum input voltage must be assured, requires dimmers with low-end trim adjustments.
- Dimmers require a neutral.
- · Highest relative cost to achieve 1% dimming.

*Four-wire digital addressable ballast (consult factory).

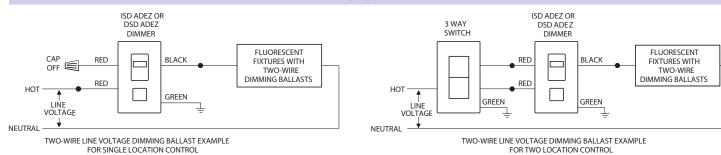
Advance				Universal	Osram/				Lutron	DALI
Control type		Advance	Lutron	SuperDim®/		Advance	Lutron	Lutron	Hi-Lume/	(various
Control type		Mark 7®	TVE	Ballastar®	Helios™	Mark 10®	Tu-Wire	ECO-10	Compact SE	manufacturers)
Ballist nomerclature ADITACT TVE DIM-DIM-10/VS PHO-DIM REZVIZE ZW ECO DBMH ADAL/OSDAL , TROME						Two-wire	Two-wire	Three-wire	Three-wire	Digital,
ADZIADZTH TVE10 TUB VPTUDA TUDO OSC,OSDIA,OSTOC ADEZ ZWS ECO10 DMHL ADAIL,OSDAL,TRRALF	Control type	Four-wire	Four-wire	Four-wire	Four-wire	line voltage	line voltage			DALI protocol
The number of lamps that can be operated by each ballsst is indicated below. Refer to ballsst manufacture for dimming range for each lamp type. 12	Ballast nomenclature	RZT/VZT,IZT	TVE	DIM-D,DIM-10,V5	(PHO-)DIM	REZ/VEZ	2W	ECO	FDB/HL3	varies
F18 Quad fube	Lithonia nomenclature	ADZT,ADZTH	TVE10	TUBV,TUDA, TUDD	OS5C,OSDIM,OS	10C ADEZ	2W5	ECO10	DMHL	ADALI,OSDALI,TRDALI4
FIS Quad Tube		The number of	lamps that can	be operated by each ba	allast is indicated b	elow. Refer to bal	last manufacturer f	or dimming range for	each lamp type.	
12	F13 Quad Tube	1,2		1,2						1,2
F32 Quad Tube	F18 Quad Tube	1,2		1,2		1,2	2		1,2	1,2
F13 Triple Tube 1.2 F18 Triple Tube 1.2 F19 Triple Tube 1.2 F10 Triple Tube 1.2	F26 Quad Tube	1,2		1,2		1,2	1,2		1,2	1,2
F18 Triple Tube	F32 Quad Tube									
F26 Triple Tube	F13 Triple Tube	1,2								1,2
F32 Triple Tube	F18 Triple Tube	1,2				1,2	2		1,2	1,2
F42 Triple Tube	F26 Triple Tube	1,2		1		1,2	1,2		1,2	1,2
F42 Triple Tube				1						
FS7 Triple Tube	F42 Triple Tube			1		1				
F36 Blax T5	F57 Triple Tube					1				
F39 Blax T5	F70 Triple Tube	1				1				1
F40 Biax T5	F36 Biax T5	2				1,2				1.2
F50 Biax T5	F39 Biax T5							1,2,3	1,2,3	
F55 Biax T5	F40 Biax T5	1,2		1,2		1,2		1,2,3	1,2,3	1,2
F55 Biax T5	F50 Biax T5	1,2						1,2	1,2	
F21 T5	F55 Biax T5					1,2				1,2
F28 T5	F14 T5			1,2				1,2		1,2
F35 T5	F21 T5			1,2				1,2		
F24 TS HO	F28 T5			1,2				1,2		1,2
F24 TS HO	F35 T5			1						1,2
F54 T5 H0	F24 T5 H0							1,2	1,2	
F17 T8	F39 T5 H0							1,2	1,2	
F25 T8	F54 T5 H0	1,2		1	1,2	1,2		1,2	1,2	1,2
F32 T8	F17 T8	1,2,3,4	1	1,2,4	1		2	1,2,3	1,2,3	1,2,3
F40 T8	F25 T8	1,2,3,4	1	1,2,4	1	1,2,3	1,2	1,2	1,2,3	1,2,3,4
Synergy dimmer modules (pg 666-667) Synergy dimmer modules (pg 666-667) Digital Equinox®³ (pg 659-661) MiniPac types (pg 676) SQIDC (pg 675) requires RDMBC requires RDMBC requires RDMBC requires RDMBC SYRS EXT,DEQ LC SYRS	F32 T8	1,2,3,4	1,2,3	1,2,3,4	1,2,3,4	1,2,3	1,2	1,2,3	1,2,3	1,2,3,4
Synergy dimmer modules (pg 666-667) Synergy dimmer modules (pg 659-661) Synergy dimmer modules (pg 659-667) Synergy dimmer modules (pg 659-667) Synergy dimmer modules (pg 659-667) Synergy dimmer modules (pg 678-679) Synergy dimmer modules (pg 679-679) Synergy dimmer modules (pg 679	F40 T8								1,2	
(pg 666-667) SYPM 8F N/A N/A N/A N/A N/A N/A N/A										
Digital Equinox®3	Synergy dimmer modules	CVDIA OF	CVD11 OF	CVDLL OF	CVDM OF	CVDMD CDD	CVDIAD CDD	CVDMD CDD	CVDMD CDD	CVDM DALL
(pg 659-661) SYRS EXI,DEQ LC SYRS EXI,DEQ LC SYRS EXI,DEQ LC SYRS EXI,DEQ LC N/A N/A N/A N/A N/A MiniPac types (pg 676) UF UF UF UF US,UF US,UF UF UF N/A SQIDC (pg 675) requires RDMBC requires RDMBC requires RDMBC Yes Yes Yes Yes Yes N/A ISD Series (pg 678-679) ISD BC ISD BC ISD BC ISD BC ISD BC ISD ADEZ ISD ADEZ ISD I with RDMF ISD I with RDMF N/A DSD Series (pg 677) N/A N/A N/A N/A DSD ADEZ DSD ADEZ N/A N/A N/A	(pg 666-667)	SYPM 8F	SYPM 8F	SYPM 8F	SYPM 8F	ZAHWR PDR	ZALWR PDR	ZALWR ODR	ZALWR ODR	SYPM DALI
MiniPac types (pg 676) UF	Digital Equinox®3	CVDC EVT DED 10	CADC EALUEVI	C CVDC EVT DED LC	CVDC EVT DEG 16	N/A	N/A	NI/A	N/A	NI/A
SQIDC (pg 675) requires RDMBC requir	(pg 659-661)	STRS EXT, DEQ LC	STRS EXT, DEQ I	L STRS EXI, DEQ LC	SIKS EXI, DEQ LC	N/A	N/A	N/A	N/A	N/A
SD Series (pg 678-679) ISD BC ISD BC ISD BC ISD BC ISD BC ISD BC ISD ADEZ ISD ADEZ ISD I with RDMF ISD I with RDMF N/A		UF	UF	UF	UF	UX,UF		UF		
ISD Series (pg 678-679) ISD BC ISD I with RDMF ISD I with RDMF ISD I with RDMF N/A DSD Series (pg 677) N/A N/A N/A DSD ADEZ DSD ADEZ N/A N/A N/A Remote dimmer modules Remote dimmer modules ISD I with RDMF ISD I with RDMF N/A N/A	SQIDC (pg 675)	requires RDMBC	requires RDMB	C requires RDMBC	requires RDMBC	Yes	Yes	Yes	Yes	N/A
DSD Series (pg 677) N/A N/A N/A N/A DSD ADEZ DSD ADEZ N/A N/A N/A N/A Remote dimmer modules					Wallbox	dimmers				
Remote dimmer modules Supplies	ISD Series (pg 678-679)		ISD BC		ISD BC			ISD I with RDMF	ISD I with RDMF	
	DSD Series (pg 677)	N/A	N/A	N/A	N/A	DSD ADEZ	DSD ADEZ	N/A	N/A	N/A
RDM (pg 676) RDMBC RDMBC RDMBC RDMBC RDMF RDMF RDMF RDMF N/A					Remote din	nmer modules				
	RDM (pg 676)	RDMBC	RDMBC	RDMBC	RDMBC	RDMF	RDMF	RDMF	RDMF	N/A

- 1 Lamp and ballast information shown on this table was compiled per ballast manufacturer literature available when the table was prepared. Refer to the ballast manufacturers' current literature for up-to-date information about their product lines.
- $2 \quad \text{Refer to the ballast manufacturers' information for specific low-end dimming for each lamp type.} \\$
- 3 Requires LPCS nower control station (nage 674)
- ${\color{red} 4 \quad Consult factory for specific lamp configurations available for different DALI \, ball as top tions.}$

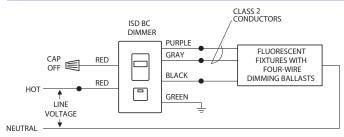


TYPICAL WIRING DIAGRAMS FOR FLUORESCENT WALLBOX DIMMERS

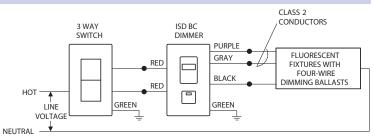
TWO-WIRE DIMMING BALLASTS (ADVANCE MARK 10®, LUTRON TU-WIRE) 120V OR 277V



FOUR-WIRE DIMMING BALLASTS (ADVANCE MARK 7®, SYLVANIA HELIOS™) 120V OR 277V

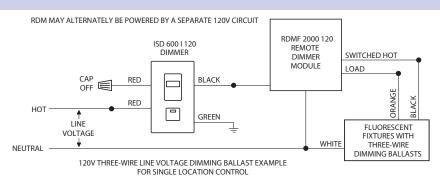


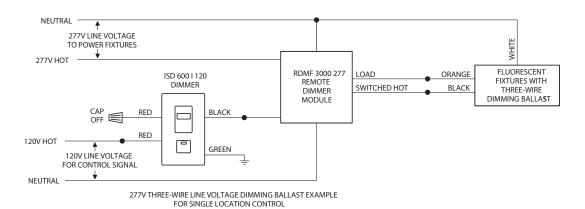




FOUR-WIRE 0-10V DIMMING BALLAST EXAMPLE FOR TWO LOCATION CONTROL

THREE-WIRE DIMMING BALLASTS (LUTRON HILUME, ECO-10)

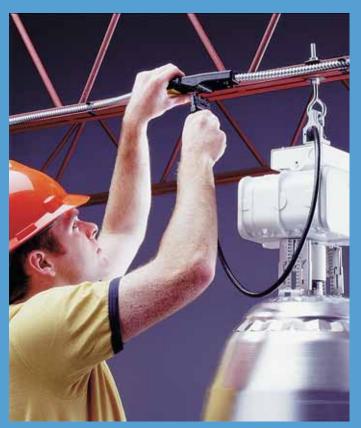




www.lithonia.com



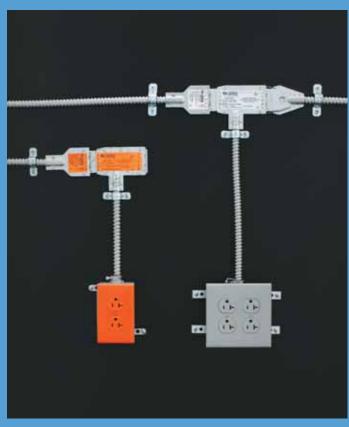
LITHONIA LIGHTING®



Reloc® Wiring Systems

The leader in modular wiring for more than 20 years, Reloc® wiring systems offer unique wiring systems for commercial, industrial and specialty applications that are fast, easy and effective.

In today's fast-track market, every job demands wiring solutions that reduce installation time and adapt to changes that occur both during and after construction. Reloc® systems give you the edge you need to stay on schedule and on budget.





LITHONIA RELOC WIRING SYSTEMS

CONTENTS









684







Open Ceiling Lighting Systems

OnePass® 690

















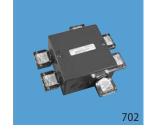






Specialty Lighting and Power Systems

Power Wiring 695 **Specialty Lighting** 695 Power Pole 703





LITHONIA LIGHTING®

Quick-Flex®



Intended Use

The Quick-Flex® system costs less than other wiring methods for commercial lighting in offices, schools and other accessible ceiling applications. Quick-Flex® systems are simple and utilize components that snap together in a fraction of the time required for MC cable or other traditional wiring methods.

Features

Pin-and-socket contacts. Rated for use on 20-amp branch circuits.

All conductors are No. 12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Component provides a fully rated No. 12 AWG grounding conductor.

Fixture leads are No. 18 AWG solid copper rated at 105°C with pushnut connectors for easy connection to ballast leads; wirenuts not required.

Lithonia access plate is included with the QFC and QSFC cables. The access plate can be snapped into place or discarded if not required. No fixture ground lead to connect. UL listed auto grounding feature eliminates the need for gound wire connection on each fixture.

Safety keying prevents accidental mating of components of different voltages and reverse polarity. Color-coded labels for quick voltage identification. Suitable for make or break under load.

Autolatching springs for easy male/female connections.

Quick-Flex® is manufactured from listed MC cable.

Listings

UL Listed to US and Canadian safety standards.

Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

Factory-Installed Fluorescent Combo



Intended Use

The Reloc® combo option provides the Quick-Flex® fixture cable pre-wired to a Lithonia fixture at the factory.

Ordering Information

Example: 2PM3N G B 3 32 18LD MVOLT 1/3 GEB

QFC277 12/2G11A

The voltage for the QFC must be specified when ordered with a multi-volt ballast fixture. All Quick-Flex® products are voltage specific. The wiring instruction also must be included in the QFC description.

The QFC is prewired to the fixture and is easily snapped into place during the fixture installation.

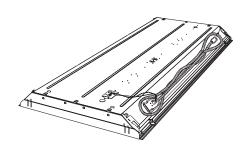
Dust covers are not included with the fluorescent combo option.

If extra dust covers are needed, they must be ordered separately: **QUICKFLEX DUST COVER J50**.

When ordered as a separate item, the dust covers will come in packs of 50 only. Orders must be entered in multiples of 50.

Combo Factory Wiring Instructions

	, ,
Wiring Instruction Indicator	Wiring Description
Α	All normal ballast(s) wired to hot 1.
В	All normal ballast(s) wired to hot 2 (12/3G
	cable only).
AB	All normal ballast(s) wired to hot 1 and hot 2 (12/3G cable only).
AE	All normal ballast(s) connect to hot 1; EL inverter connects to hot 2 (12/3G cable only).
NW	Cable packaged with fixture, not wired.



www.lithonia.com, keyword: QF

Provides the interface between hardwiring and the Quick-Flex® system at the homerun location. Conventional wiring methods bring power from the panel to the homerun location or above.

Example: QC277 12/3G

Length

6" leads

Quick-Flex® Converter

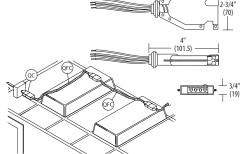
Ordering Information

Family	Voltag
QC	120
	277
	347

Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

Three 12 AWG conductors (blank) plus one 12 AWG ground 09

Size and number of conductors







NOTES:

 $Three\ Quick-Flex @\ dust\ covers\ are\ included\ for\ every\ 10\ pieces\ ordered.$

Features

Access plate is preattached (standard) to QFC to

Length

07 7" leads

Dimensions are shown in inches (millimeters).

Intended Use

Male/female cable that provides power from fixture to fixture in the Quick-Flex® system.

Ordering Information

Voltage
120
277
347

Size and number of conductors Two 12 AWG conductors plus one 12AWG ground 12/3G Three 12 AWG conductors plus one 12 AWG ground

Voltage Wire Color and Position			
Pin Position#	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

NOTES:

- 1 UL Listed for auto ground. Use Goption only when required by local codes.
- 2 Goption is required in Canada.

 $Three\ Quick-Flex @\ dust\ covers\ are\ included\ for\ every\ 10\ pieces\ ordered.$

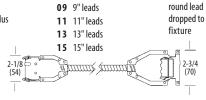
Dust covers are not included with factory combo option. See page 684 for combowiring and ordering instructions.

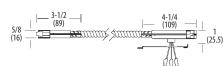
provide quick, easy fixture installation. The access plate is not fully engaged to the fixture spring.

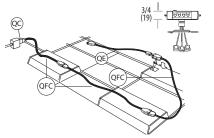
Example: QFC277 12/3G11

Optional ground lead 1,2

18 AWG







Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: QC and QFC

Quick-Flex® Fixture Cable







QE

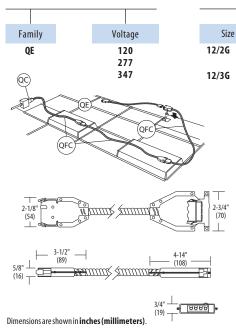
Quick-Flex® Extender Cable



Intended Use

Male/female cable that provides additional length anywhere in the Quick-Flex® system.

Ordering Information



Example: **QE277 12/3G15**

size	and number of conductors	Length
G	Two 12 AWG conductors plus one 12AWG ground	05 09
G	Three 12 AWG conductors plus one 12 AWG ground	11 15
		21

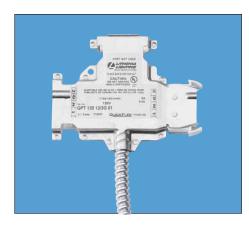
NOTES:

Three Quick-Flex® dust covers are included for every 10 pieces ordered.



QPT

Quick-Flex® Power Tee



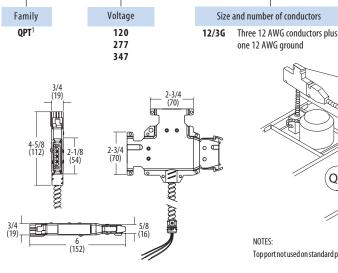
Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

Intended Use

Carries power with the use of the Quick-Flex® extender (QE). Ideal for powering downlighting, under-floor systems, track light feeds, exit signs,

unit equipment and power receptacles. Can be used in place of two existing products, the Quick-Flex® splitter (QS) and drop (QD).

Ordering Information

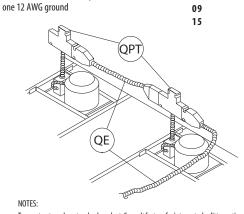


Dimensions are shown in inches (millimeters).

Example: **QPT277 12/3G01**

Length

01



Top port not used on standard product. Consult factory for integrated splitter option.

 $Three\,Quick-Flex@\,dust\,covers\,are\,included\,for\,every\,10\,pieces\,ordered.$



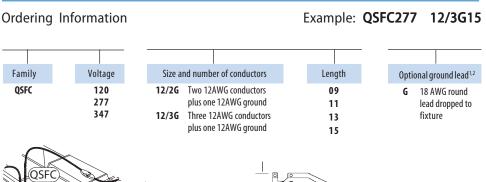
www.lithonia.com, keywords: QE and QPT

Combination of converter (QC) and fixture cable (QFC). Wires directly into homerun junction box,

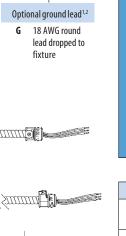
switch box or junction box above switch location; provides power to first fixture from that location.

QSFC

Quick-Flex® Starter Fixture Cable



2-3/4 (70)





Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

MC cable by others OSFC

NOTES:

- 1 UL Listed for auto ground. Use G option only when required by local codes.
- 2 G option is required in Canada.

 $Three\ Quick-Flex @\ dust\ covers\ are\ included\ for\ every\ 10\ pieces\ ordered.$

Intended Use

Located above the primary switch location to in-

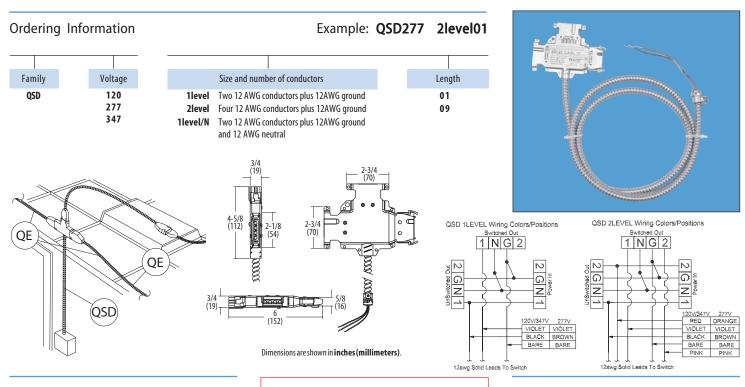
terface local switching to the Quick-Flex® system.

Dimensions are shown in inches (millimeters).

Provides local switched power for fixtures and the ability to carry on unswitched power to the next location through the use of a Quick-Flex® extender (QE).

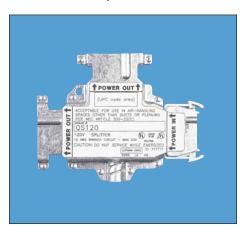
QSD

Quick-Flex® Switch Drop



QS

Quick-Flex® Splitter

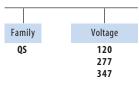




Intended Use

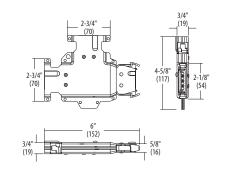
Separates the branch circuit into two directions. The QS is a male/female component that can be used anywhere throughout the Quick-Flex® system.

Ordering Information

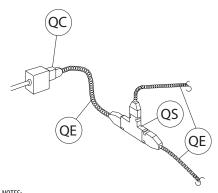


Size and number of conductors

12/36 Three 12 AWG conductors plus one 12 AWG ground







Example: **QS277 12/3G**

NOTES:

Three Quick-Flex® dust covers are included for every 10 pieces ordered.

QD

Quick-Flex® Drop Cable



Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

Intended Use

Provides power to electrical devices, which allows them to become part of the Quick-Flex® system.

Provides power integration of other electrical devices into the Quick-Flex® system, such as exit signs, unit equipment, downlights, track lights, and power receptacles. Must be used in conjunction with Quick-Flex® splitter (QS).

Example: QD277 12/3G09

Ordering Information

Ordering information	
Family	Voltag
QD	120 277 347
2.1/8"	/

2-1/8" Wummy smm (**)	QVIIII
3-1/2" — (89) ————————————————————————————————————	

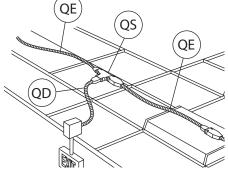
Dimensions are shown in inches (millimeters).

Size and number of conductors

12/26 Two 12 AWG conductors plus one 12 AWG ground

12/36 Three 12 AWG conductors plus one 12 AWG ground

QE



NOTES:
Three Quick-Flex® dust covers are included for every 10 pieces ordered.



www.lithonia.com, keywords: QS and QD

Step 1

Count the number of fixtures.

Layout example (see below) shows 11 type A fixtures, two type A1 fixtures and two type B fixtures.

17 fixtures to wire.

Step 2

Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures, plus one foot. Layout example shows all fixtures are on 8-foot centers.

9-foot cables are needed.

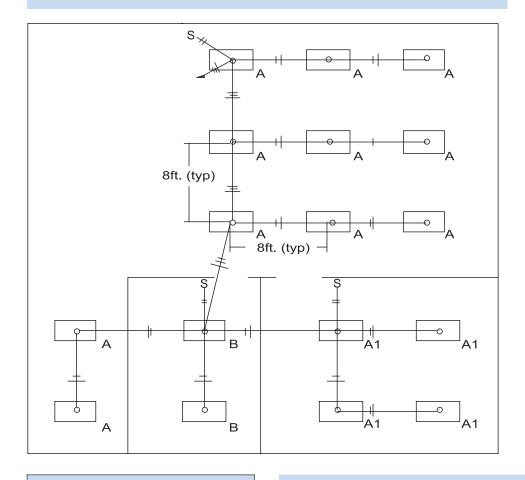
Step 3

Determine number of conductors.

(Determined by number of switches in a room). Layout example shows all rooms have single-level switching (See Guide to Conductors below for details).

Use 12/2G conductors.

Layout Example



Guide to Conductors

Symbol	Description
S	Single-pole switch; requires 12/2G conductors.
SS	Two single-pole switches; requires 12/3G conductors.
S	Single-pole switch with emergency/night-light; requires 12/3G conductors.

Based on the results from steps 1-3, establish a bill of materials.

Using the **percent factors** shown at right, calculate the number of components required. To make the calculations, use the number of fixtures in Step 1 as 100 percent.

Example: Percent factor for QE cables is 15 percent.

17 X .15 = 2.5 (round up to 3)

3 QE extender cables are needed.

Use the percent factors below to calculate the required numbers of Quick-Flex® components.

Component ¹	Description	Percent Factor	Quantity to order
QFC 12/2G09	Fixture cables to wire the 17 fixtures.	100%	17
QE 12/2G09	Extender cables for extra length where needed.	15%	3
QS 12/3G	Splitter for wiring in more than one direction. ²	3%	1
QC12/3G	Converters to connect Reloc® system to hardwiring³	12%	3

NOTES:

- 1 Must specify voltage. Example: QFC 120 12/2G09.
- 2 QS available only with 12/3G conductors.
- 3 QC available only with 12/3G conductors.

If Quick-Flex® switchdrops (QSD) are required, each switch location must be counted to determine the exact quantity of QSDs needed. For each homerun location, one Quick-Flex® convertor (QC) is needed.



OnePass®

Patented OnePass® Circuit Selector



NOTF:

The catalog number for One Pass® dust covers is RDC3 METAL DUST COVER J50. If extra dust covers are needed, they must be ordered separately and in multiples of 50. Dust covers come in packs of 50 only.

The OnePass® circuit selector features a unique thumbslide action that allows you to choose the desired hot conductor(s) to energize each fixture in the field. The OCS and non-selectable OCU permit disconnecting the fixture without disrupting the power downstream.

The OCS enables all fixtures to be wired the same way, with the ability to select the appropriate circuit when the fixture is installed. For future changes, simply unplug the OCS and select a different circuit.

Intended Use

The OnePass® system offers quick installation of industrial fixtures plus the flexibility to relocate fixtures in the future. Patented components allow both fixtures and wiring to be installed at the same time or in one pass, significantly reducing labor.

Features

Pin-and-socket contacts.

Rated for use on 20-amp branch circuits.

Safety keying prevents accidental mating of components of different voltages. Color-coded labels for quick voltage identification.

Each conductor and position is properly identified for easy circuit identification throughout

the system.

Circuit selector (OCS) is No. 16AWG rubberized cord with 105°C thermoplastic insulation, conductors rated at 600V. Starter cable, 2-port (OSC2) and OnePass cable, 2-port (OC2) are 10AWG or 12AWG, MC cable with 90°C thermoplastic insulation and conductors rated at 600V.

Fixture removal may be accomplished without interrupting the branch circuit wiring.

Component design allows removal without additional components. Suitable for make or break under load.

Replaces conventional cord and plug. Uniquely keyed for industrial/open-ceiling applications.

Housing components are constructed of textured, high-impact, polymeric compound (OCS). Patent No. 5,679,016 (OCS).

All unused parts are required to be covered. The RDC3 is the dust cover for the OnePass® system. If extra dust covers are needed, they can be ordered separately: RDC3 METAL DUST COVER J50.

Listings

UL Listed to U S and Canadian safety standards.

Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

OCS

OnePass® Circuit Selector



Voltage Wire Color and Position								
120V & 277V Pin Position #	Pin Function	Wire Color	208V, 240V & 480V Pin Position #	Pin Function	Wire Color			
1	G	Green	1	G	Green			
2	Hot 1 (Selectable)	•	2	Hot 1 (Selectable)	Black			
3	Hot 2 (Selectable)	Black	3	Hot 2 (Selectable)	White			
4	Hot 3 (Selectable)	A	4	Hot 3 (Selectable)	•			
5	N	White	5	N	NA ⁶			

▲ and ▼ denote switch movement

🖊 LITHONIA LIGHTING'

Intended Use

A plug-in connection for open ceiling fixtures. Prewired by fixture manufacturer or field installed by contractor.

Ordering Information

Family	Voltage
ocs	120 ¹ 277 ¹ 347 208 ^{2,3,4} 240 ^{2,3,4} 480 ^{2,3,4}
NOTES:	2-1/4 (57) 3-3/64 (77)

- 1 20 and 277V 2 circuit 2 neutral applications require the OCU to pick up the second Hot and Neutral.
- 2 For 2-circuit 480, 240 and 208V applications, the OCU is required to pick up the 2nd circuit.
- 3 480, 240 and 208V OCS has 2 selector switches. This allows the selectability to operate the fixture on any combination of phase circuit A, B or C.
- 4 Consult factory for voltages.
- 5 White 5ft. cord is standard
- 6 No wire in 5th position

Example: OCS 277 05 WH

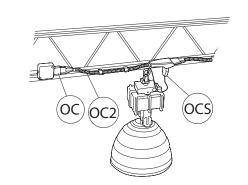
wн

BK

Cord color

White cord

Black cord



Dimensions shown in **inches (millimeters)**.

Cable length (ft.)

05

10

15 20

www.lithonia.com, keyword: OCS

Provides the interface between hardwiring and the Reloc® wiring system. A converter and ex-

tender in one component. The OSC2 is wired into the homerun junction box and brings power to the OCS, OCU or OD.

OSC₂

OnePass® Starter Cable, 2-Port

Ordering Information

Family	Voltage		Number of conductors
OSC2	120 277	12/2 G	Two No. 12 AWG conductors plus one No. 12 AWG ground
	347 208 ¹	12/3G	Three No. 12 AWG conductors plus one No. 12 ground
	240 ¹ 480 ¹	12/4G	Four No. 12 AWG conductors plus one No. 12 ground
		10/2G	Two No. 10 AWG conductors plus one No. 10 AWG ground
		10/3G	Three No. 10 AWG conductors plus one No. 10 ground
		10/4G	Four No. 10 AWG conductors plus one No. 10 ground
			<u> </u>

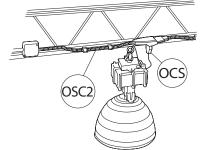
	Cable length (ft.)	Options
s d ors	09 15 21	2 N Two circuit, two neutral; available only in 12/4G conductors only.
S	25 31	conductors only.
s d		

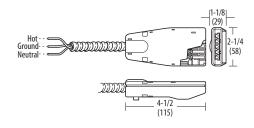
Example: OSC2 277 12/4G 09

NOTES:

1 Consult factory for voltages.

 $Three\,RDC3\,dust\,covers\,included\,with\,every\,10\,ordered\,pieces.$





Dimensions are shown in inches (millimeters).



Voltage Wire Color and Position							
Pin Position	Pin Function	120/347V	120/347V 208/240V 277V				
1	G	Green	Green	Green	Green		
2	Hot1	Black	Black	Brown	Brown		
3	Hot2	Red	Red	Orange	Orange		
4	Hot3	Blue	Blue	Yellow	Yellow		
5	N	White	Violet	Gray	Violet		

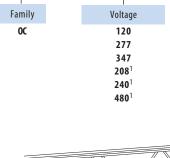
NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position. 208V/240V/480V is hot, provided with Hot in 5th position (12/4G).

Intended Use

Provides the interface between hardwiring and the Reloc® wiring system at homerun location.

OnePass® Circuit Distributor

Ordering Information



Example: **OC 277 12/4G**

Number of conductors

12/46 Four No. 12 AWG conductors plus one No. 12 ground

Options

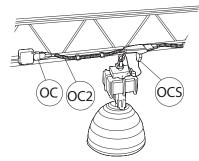
2N Two circuit, two neutral; available only in 12/4G conductors only.

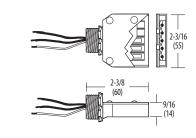
NOTES:

1 Consult factory for voltages.

Three RDC3 dust covers included with every 10 ordered pieces.

Not available in 10 AWG.





Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: OSC2 and OC



Voltage Wire Color and Position							
Pin Position	Pin Function	480V					
1	G	Green	Green	Green	Green		
2	Hot1	Black	Black	Brown	Brown		
3	Hot2	Red Red C		Orange	Orange		
4	Hot3	Blue	Blue	Yellow	Yellow		
5	N	White	Violet	Gray	Violet		

NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position. 208V/240V/480V is hot, provided with Hot in 5th position (12/4G).



OC2

OnePass® Cable, 2-Port

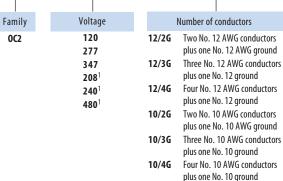


Ordering Information

cuit into two directions.

Intended Use A splitter and cable extender in one easy-to-use component. Used to bring power to OCS, OCU or

an OD in industrial applications, or to split a cir-



COVER

UNUSED

Cable length (ft.)

09

15

21

25

(OC

Example: OC2 277 12/4G 09

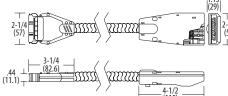
Options

Two circuit, two

only in 12/4G

conductors only.

neutral; available



Dimensions shown in inches (millimeters)

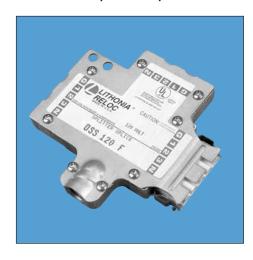


1 Consult factory for voltages.

 $Three\,RDC3\,dust\,covers included\,with\,every\,10\,ordered\,pieces.$

OSS

OnePass® Splitter Splice



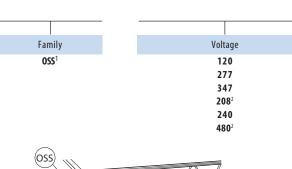
NOTES:

- Consult factory for voltages.
- 2 BSS not available in 10AWG.

Intended Use

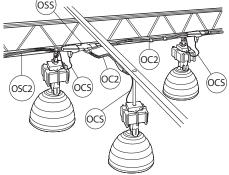
Splits a branch circuit into two directions. Male/ female component that can be used anywhere in the OnePass® system.

Ordering Information



Number of conductors
12/2G
12/3 G
12/4 G

Example: OSS 277 12/4G





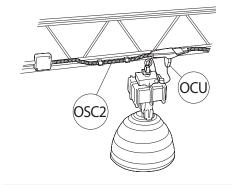
A polarized, non-circuit, selectable plug-in connection for industrial fixtures. Prewired by fixture manufacturer or field installed by contractor.

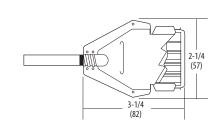
OCU

OnePass® Cord Unselectable

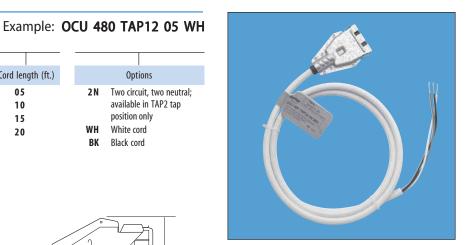
Ordering Information

Family	Voltage	Tap fro	m position	Cord length (ft.)		Options
OCU	120 277 208 ¹ 240 ¹ 480 ¹	TAP2 TAP12 TAP34 TAP1 TAP3 TAP23	1 and 2 3 and 4 1 3	05 10 15 20	2 N WH BK	Two circuit, two neutra available in TAP2 tap position only White cord Black cord





 $Dimensions shown in {\bf inches (millimeters)}.$



NOTES:

- 1 Consult factory for voltages.
- 2 White SFT cord is standard.

Intended Use

Allows miscellaneous devices (exits, emergency units, etc.) to become part of the OnePass® sys-

tem to be field installed by contractor. Also a plug-in connection for industrial fixtures that can be prewired by fixture manufacturer or field installed by contractor.

Example: **OD 277 12/2G 15**

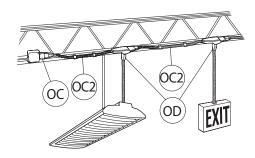


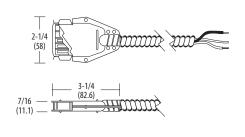
Ordering Information

Family	Voltage		Number of conductors	Cable length (ft.)		Options
OD	120 277 208 ¹ 240 ¹ 480 ¹	12/2G 12/3G 12/4G	Two No. 12 AWG conductors plus one No. 12 AWG ground Three No. 12 AWG conductors plus one No. 12 ground Four No. 12 AWG conductors plus one No. 12 ground	05 10 15 20	2 N	Two circuit, two neutral; available in 12/4G conductors only.

NOTES:

1 Consult factory for voltages.





 $Dimensions are shown in {\it inches (millimeters)}.$

www.lithonia.com, keywords: OCU and OD



Voltage Wire Color and Position							
Pin Position	Pin Function	120/347V	277V	480V			
1	G	Green	Green	Green	Green		
2 Hot1		Black	Black	Brown	Brown		
3 Hot2		Red	Red	Orange	Orange		
4	Hot3	Blue	Blue	Yellow	Yellow		
5	N	White	Violet	Gray	Violet		

NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position. 208V/240V/480V is hot, provided with Hot in 5th position (12/4G).



Step 1

Count the number of fixtures.

Layout example (see below) shows 18 type H fixtures.

17 fixtures to wire.

Step 2

Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures. Layout example shows all fixtures are on 15-foot centers.

15-foot cables are needed.

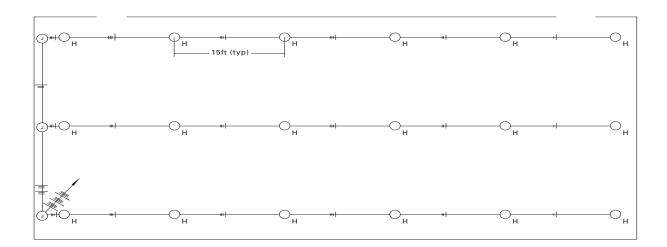
Step 3

Determine number of conductors.

Determined by maximum number of short vertical marks in the layout. Layout example shows three short vertical marks. (See Guide to Number of Conductors below for details).

Use 12/4G conductors.

Layout Example



Guide to Number of Conductors

Symbol Description
One short vertical mark indicates
12/2G conductors are required.
Two short vertical marks indicate
12/3G conductors are required.

Symbol Description



Three short vertical marks indicate 12/4G conductors are required.

NOTE: Long vertical mark denotes neutral.

Based on the results from steps 1-3, establish a bill of materials.

Using the **percent factors** shown at right, calculate the number of components required. *To make the calculations, use the number of fixtures in Step 1 as 100 percent.*

Example: Percent factor for OC converters is 13 percent.

 $18 \times .13 = 2.34$ (round up to 3)

3 OC converters are needed.

Use the percent factors below to calculate the required numbers of OnePass® components.

OC212/4G15 Cables to wire the 18 fixtures. 100% 18 OCS2 Circuit selectors to connect the 18 fixtures. 100% 18 OCS2 Circuit selectors to connect the 18 fixtures. 100% 18	Componen	t ¹ Description	factor	to order
	OC2 12	2/4G15 Cables to wire the 18 fixtures.	100%	18
06 13/46 Committee to a second Pole a section to be solvinia section 130/	OCS	Circuit selectors to connect the 18 fixtures.	100%	18
OC 12/4G Converters to connect Reloc system to hardwiring. 13% 3	OC 12/	4G Converters to connect Reloc system to hardwiring.	13%	3

NOTES:

- 1 Must specify voltage. Example: OC2 277 12/4G 15.
- $2 \quad \text{Must specify length of OCS in feet. Example: OCS 120} \, \textbf{05} \, \text{WH}.$



Reloc® specialty lighting and power products provide maximum flexibility and unique capabilities for full system integration where more complex wiring schemes are required. This includes raised floor and modular convenience power applications such as retail displays, gondolas, kiosks and checkout registers.







PSG9

Specialty Lighting



Intended Use

Five-wire system accommodates applications requiring three circuits with a common neutral; or two circuit; two neutral or two circuits, one neutral and an isolated ground.

Features

Rated for use on 20-amp branch circuits. Pinand-socket contacts.

All conductors are No. 12AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages and reverse polarity.

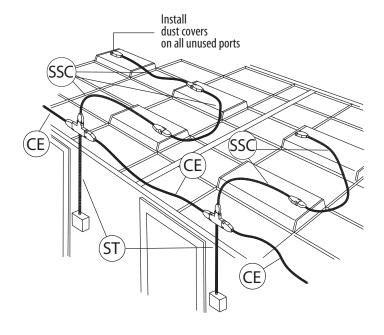
Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor.

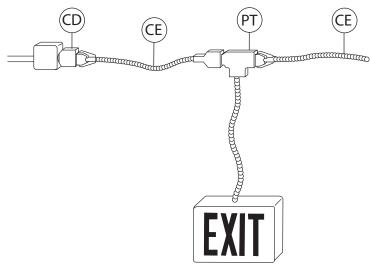
Autolatching springs prevent accidental disengagement.

Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

Specialty Lighting System View



Reloc® 820 Power Tee



Five-wire system accommodates applications requiring three circuits with a common neutral; or two circuit two neutral; or two circuit, one neutral and an isolated ground.

Features

Rated for use on 20-amp branch circuits. Pin-and-socket contacts.

All conductors are No. 12 AWG copper with 90°C thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components for different voltages and reverse polarity.

Color-coded labels for quick voltage identification.

All conductors are clearly identified on the product to simplfy the installation.

All components provide a fully rated No. 12 AWG grounding conductor.

Isolated ground conductor option available. Installs through standard 1" trade-size knockout.

6" of exposed leads, prestripped for easy wiring.

Duplexes supported for new construction and modular cabinets. Single and double duplexes are available.

Standard and clean power (isolated ground) are available with certain components.

Power poles are available in a wide variety of optional finishes.

All unused ports are required to be covered. The RDC3 is the dust cover for the specialty lighting and power system.

If extra dust covers are needed, they are to be ordered separately: RDC3 METAL DUST COVER J50.

Listings

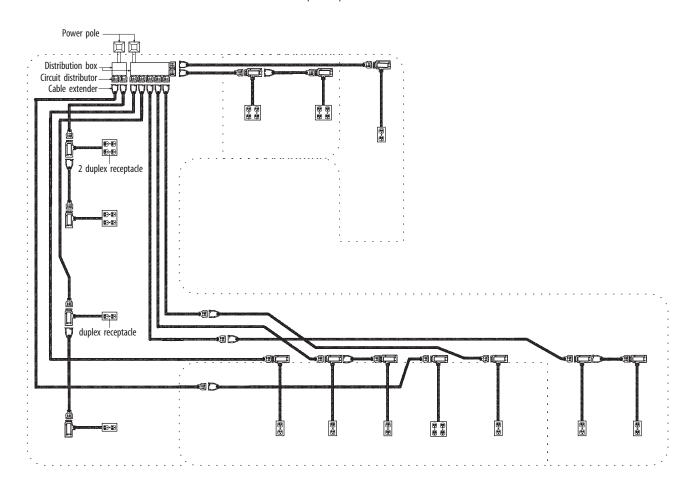
UL Listed. CSA Certified. Distribution boxes (DB) are UL Listed only.

Power Wiring



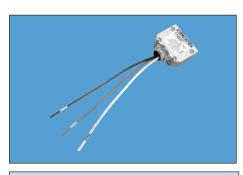
Counter Power System View

NOTE: All unused ports require a dust cover.



Specialty Lighting & Power Components

820 Circuit Distributor



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
1	Hot2	Red	Brown	
2	Hot1	Black	Yellow	
3	G	Green	Green	
4	N	White	White	
5	Hot3	Blue	Orange	

NOTE: Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

Intended Use

Provides interface between hardwiring and the Reloc® wiring system. Conventional wiring methods bring power from panel to homerun location, where CD is installed.

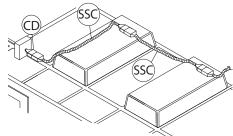
Ordering Information

Family	Voltage	Number of conductors
Œ	120	D Three
	277	E Four
	347	F Five
NOTES:		

 $1 \quad Must add \, CSA \, suffix for certification.$

Three dust covers are included for every 10 pieces ordered.





only

CSA Certified

Example: CD 120 F CSA¹

Options Isolated ground wire; available with 120V and conductor only

Two circuit, two neutral; available with 120V, 277V and 347V; F conductors

Dimensions are shown in inches (millimeters).

SSC

820 Standard Selector Cable

Intended Use

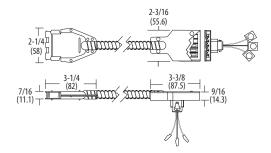
Male/female cable, provides power from fixture to fixture. Attaches to access plate or through $\frac{1}{2}$ -inch trade-size knockout.

Ordering Information

Family	Voltage	Number of conductors	Factory keying
SSC	120	D Three	U
	277	E Four	
	347	F Five	

Example: SSC 120 F U 11 CSA¹

Cable length (ft.)		Options
09	2 N	Two circuit, two neutral;
11		available with F conductor
13	G	Ground lead with lug term
15		(Required in Canada)
	CSA	CSA Certified



Dimensions are shown in inches (millimeters)

2 Three dust covers are included for every 10 pieces ordered.



www.lithonia.com, keywords: CD and SSC

1 Must add CSA suffix for certification.

Male/female cable that provides additional length anywhere throughout the Reloc® system.

CE

820 Cable Extender

Ordering Information

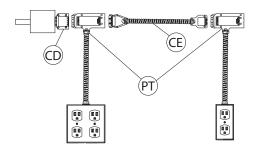
Family	Voltage	Number of conductors
CE	120	D Three
	277	E Four
	3.47	F Five

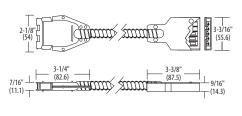
Example: CE 277 F U 11 2N CSA¹

Cable length (ft.)		Options
09 11	IGW	Isolated ground wire; available only with 120V and F conductor
15 21 25		Two circuit, two neutral; available with 120, 277 and 347V; F conductor only CSA Certified

Factory keying







Dimensions are shown in inches (millimeters).

NOTES:

1 Mustadd CSA suffix for certification.

Three dust covers are included for every 10 pieces ordered.

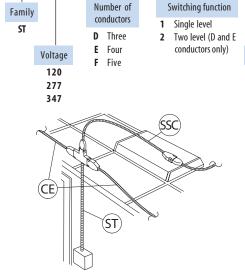
Intended Use

Introduces local switching to Reloc® systems. Located above primary switch location; provides local switched power and unswitched power to be used as needed.

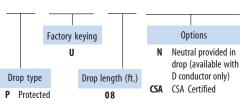
ST

820 Switching Tee

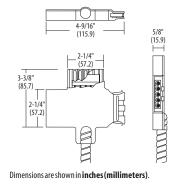
Ordering Information

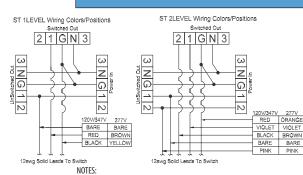


Example: ST 277 D1 P U 08 CSA1









1 Must add CSA suffix for certification.

www.lithonia.com, keywords: <u>CE</u> and <u>ST</u>



Specialty Lighting & Power Components

SS

820 Splitter Splice



Intended Use

Used to split branch circuit into two directions in commercial or power applications.

Ordering Information

Family
SS

Voltage	
120	
277	
347	

Number of conductors

F Five

Factory keying

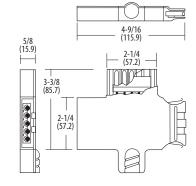
Example: SS 277 F U CSA¹

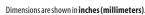
Option

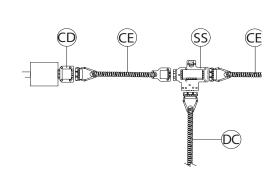
IGW Isolated ground wire; available only with 120V and F conductor.

2 N Two circuit, two neutral; available with 120, 277 and 247V; F conductor only.

CSA CSA Certified







NOTES:

1 Must add CSA suffix for certification.

CSU

820 Circuit Selector Unit



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
1	Hot2	Red	Brown	
2	Hot1	Black	Yellow	
3	G	Green	Green	
4	N	White	White	
5	Hot3	Rlue	Orange	

NOTE: Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

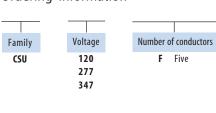
NOTES:

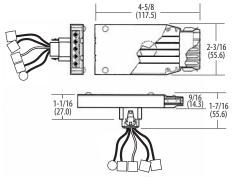
1 Must add CSA suffix for certification.

Intended Use

Provides wiring of any device through 1/2" trade-size knockout. CSU uses No. 12 AWG leads, allowing full circuit access.

Ordering Information

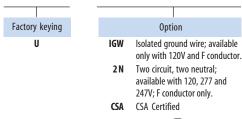


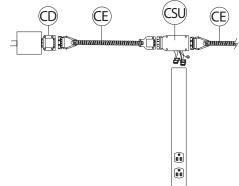


Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: SS and CSU

Example: CSU 120 F U CSA¹







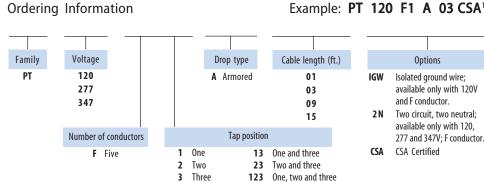
A through-wired component that makes it possible to select which branch circuit

conductor feeds a specific device. Also provides power to devices used on convenience power, access floor systems and commercial lighting.



820 Power Tee

Ordering Information



12 One and two

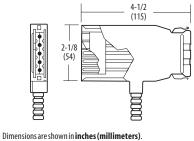
Options IGW Isolated ground wire; available only with 120V and F conductor. Two circuit, two neutral; available only with 120, 277 and 347V; F conductor. CSA Certified



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
1	Hot2	Red	Brown	
2	Hot1	Black	Yellow	
3	G	Green	Green	
4	N	White	White	
5	Hot3	Blue	Orange	

NOTE: Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

ande 🗍 🗓 (CE) (CD)



NOTES:

1 Must add CSA suffix for certification.

Intended Use

Provides integration of other electrical devices into the 820 system, such as power outlets and power strips (see above).

Conventional pipe and wiring not required to convey wiring.

IGW

Example: DC 120 D U 09 CSA¹

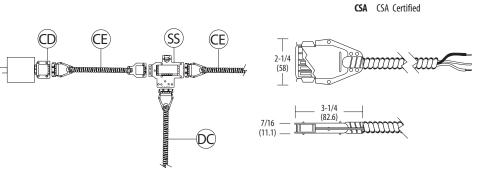
Options Isolated ground wire; available only with 120V and

F conductor. Two circuit, two neutral; available only with 120, 277 and 347V; F conductor.

820 Drop Cable

Ordering Information

Family	Voltage	Number of conductors	Factory keying	Cable length (ft.)
DC	120 277 347	D Three E Four F Five	U	09 11 13 15



Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: PT and DC



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
1	Hot2	Red	Brown	
2	Hot1	Black	Yellow	
3	G	Green	Green	
4	N	White	White	
5	Hot3	Blue	Orange	

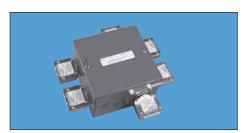
NOTE: Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

NOTES:

1 Must add CSA suffix for certification.



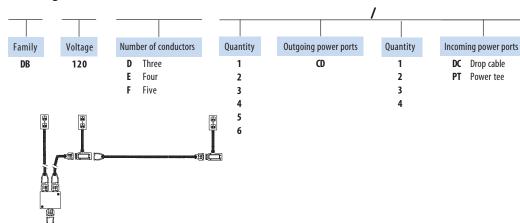
DB



Intended Use

The distribution box (DB) can be used as the interface between the Reloc® wiring system and hardwiring. The DB can be used to distribute power to power tracks, wall units, gondola lamps and other lighting displays. From the DB, circuits can be fed in different directions.

Ordering Information



Example: DB 120 F 4CD/1DC 01

DC/PT length	Options
01 03 05	Isolated ground wire; with E and conductors only Two circuit, two neutral; with F conductor only

Box Dimensions							
# of Outgoing	Width of Length of Heigh						
Power Ports	Box	Box	Box				
1-6	6"	6"	3"				
7-8	6"	8"	4"				
9-14*	14"	16"	4.5"				

^{*}Standoff legs included on this version.

Duplex Receptacle

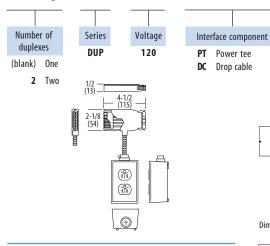
DUP

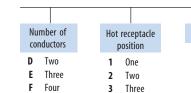


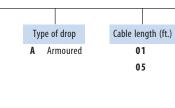
Intended Use

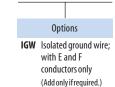
The DUP is a prewired power receptacle outlet box that integrates with a Reloc® system. The DUP can be used to manage phase loading on power receptacle applications. Pre-order the appropriate number of receptacles for each circuit prewired from the factory.

Ordering Information

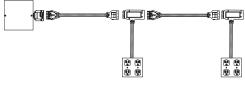








Example: DUP 120 PT F1A01



Dimensions are shown in **inches (millimeters)**.



www.lithonia.com, keywords: DB and DUP

A convenient and economical means to provide power, data and/or telecommunications cables to a workstation. The Lithonia PP2 is designed to be used in areas where traditional wiring methods would prove to be difficult, costly and unsightly.

Features

"I" beam construction for strength and rigidity.

IBEW labeled.

All installation hardware supplied.

Rated for use on 20 amp branch circuits.

Receptacle options of NEMA configuration duplex receptacles standard.

Two channel – isolates power and communications wiring.

Circuit conductors are solid No. 12 AWG copper with 600 volt 90°C thermo-plastic insulation.

Available with a wide variety of electrical, data and telecommunications options.

Wire leads extend to top of pole where connections are made above the ceiling.

Available in a wide variety of optional finishes.

Anchors to carpet or tile floor coverings.

1/2" inch knockouts in end caps for easy installation.

Communications compartment supplied with protective bushing and easily removable cover.

Listings

UL Listed.





Example: PP2 L126 GY 2D20A120V H24 IGB

Ordering Information

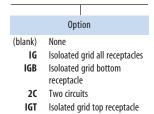
F	amily	Length ¹
PP1	1 channel	L78
PP2	2 channel	L102
PP3	3 channel	L126
		L150
		L186
		L222
		1264

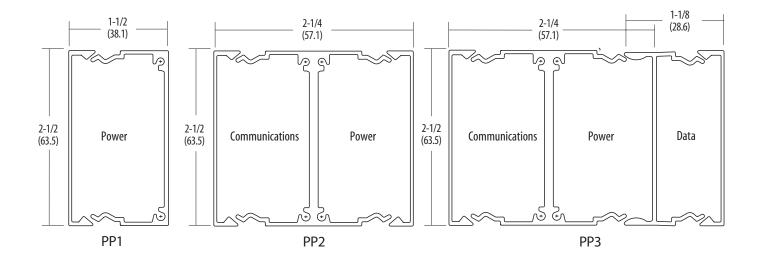
Po	ole color ²
WH	White
GY	Gray
BA	Brushed
	aluminun

Rece	ptacles/amps/voltage³
ID20A120V IR30A208V 2D20A120V	One duplex 20 amp/120 volt One receptacle 30 amp/208 volt Two duplex 20 amp/120 volt

olt 18 volt olt

Receptacle mounting height⁴
(blank) 3.25" from bottom
H24 24" from bottom
H48 48" from bottom





NOTES:

- $1\quad Power pole \, lengths \, are \, shown \, in \, in ches.$
- 2 Receptacle and plate colors will match pole color except for brush aluminum, which will come with a gray receptacle and plate.
- 3 30A208v is single receptacle.
- $4\quad In ches from \, bottom \, of the \, pole \, to \, the \, center \, of \, the \, duplex \, or \, receptacle.$



National Electric Codes Articles as They Apply to Modular Wiring

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ARTICLE 604 Manufactured Wiring Systems 604.1 Scope.

The provisions of this article apply to field-installed wiring using off-site manufactured subassemblies for branch circuits, remote-control circuits, signaling circuits, and communications circuits in accessible areas.

604.2 Definition.

Manufactured Wiring System. A system containing component parts that are assembled in the process of manufacture and cannot be inspected at the building site without damage or destruction to the assembly.

604.3 Other Articles.

Except as modified by the requirements of this article, all other applicable articles of this Code shall apply.

604.4 Uses Permitted.

Manufactured wiring systems shall be permitted in accessible and dry locations and in ducts, plenums, and other air-handling spaces where listed for this application and installed in accordance with 300.22.

Exception No. 1: In concealed spaces, one end of tapped cable shall be permitted to extend into hollow walls for direct termination at switch and outlet points.

Exception No. 2: Manufactured wiring system assemblies installed outdoors shall be listed for use in outdoor locations.

604.5 Uses Not Permitted.

Manufactured wiring system types shall not be permitted where limited by the applicable article in Chapter 3 for the wiring method used in its construction.

604.6 Construction.

(A) Cable or Conduit Types.

(1) Cables. Cable shall be listed Type AC cable or listed Type MC cable containing nominal 600-volt, 8 to 12 AWG insulated copper conductors with a bare or insulated copper equipment grounding conductor equivalent in size to the ungrounded conductor.

Other cables as listed in 725.61, 800.113, 820.113, and 830.179 shall be permitted in manufactured wiring systems for wiring of equipment within the scope of their respective articles.

(2) Conduits. Conduit shall be listed flexible metal conduit or listed liquidtight flexible conduit containing nominal 600-volt, 8 to 12 AWG insulated copper conductors with a bare or insulated copper equipment grounding conductor equivalent in size to the ungrounded conductor.

Exception No.1 to (1) and (2):A luminaire (fixture) tap, no longer than 1.8 m (6 ft) and intended for connection to a single luminaire (fixture), shall be permitted to contain conductors smaller than 12 AWG but not smaller than 18 AWG.

Exception No. 2 to (1) and (2): Listed manufactured wiring assemblies containing conductors smaller than 12 AWG shall be permitted for remote-control, signaling, or

communication circuits.

- (3) Flexible Cord. Flexible cord suitable for hard usage, with minimum 12 AWG conductors, shall be permitted as part of a listed factory-made assembly not exceeding 1.8 m (6 ft) in length when making a transition between components of a manufactured wiring system and utilization equipment, other than luminaires (fixtures), not permanently secured to the building structure. The cord shall be visible for its entire length and shall not be subject to strain or physical damage.
- **(B) Marking.** Each section shall be marked to identify the type of cable, flexible cord, or conduit.
- **(C) Receptacles and Connectors.** Receptacles and connectors shall be of the locking type, uniquely polarized and identified for the purpose, and shall be part of a listed assembly for the appropriate system.
- **(D) Other Component Parts.** Other component parts shall be listed for the appropriate system.
- **(E) Securing and Supporting.** Manufactured wiring systems shall be secured and supported in accordance with the applicable cable or conduit article for the cable or conduit type employed.
- **(F) Luminaires (Fixtures).** Installation of listed electric-discharge luminaires (fixtures) complying with 410.30(C) shall be permitted.

604.7 Unused Outlets.

All unused outlets shall be capped to effectively close the connector openings.



300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and raceways shall not be supported by ceiling grids.

(1) Fire-Rated Assemblies. Wiring located within the cavity of a fire-rated floor—ceiling or roof—ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design. Exception: The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.

FPN: One method of determining fire rating is testing in accordance with NFPA 251-1999, Standard Methods of Tests of Fire Endurance of Building Construction and Materials.

(2) Non–Fire-Rated Assemblies. Wiring located within the cavity of a non–fire-rated floor—ceiling or roof—ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

Exception: The ceiling support system shall be permitted

to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.

- **(B) Raceways Used as Means of Support.** Raceways shall be used only as a means of support for other raceways, cables, or nonelectric equipment under any of the following conditions:
- (1) Where the raceway or means of support is identified for the purpose
- (2) Where the raceway contains power supply conductors for electrically controlled equipment and is used to support Class 2 circuit conductors or cables that are solely for the purpose of connection to the equipment control circuits
- (3) Where the raceway is used to support boxes or conduit bodies in accordance with 314.23 or to support luminaires (fixtures) in accordance with 410.16(F)
- **(C) Cables Not Used as Means of Support.** Cable wiring methods shall not be used as a means of support for other cables, raceways, or nonelectrical equipment.

300.22 Wiring in Ducts, Plenums and Other Air-Handling Spaces.

The provisions of this section apply to the installation and uses of electric wiring and equipment in ducts, plenums, and other air-handling spaces.

(A) Ducts for Dust, Loose Stock, or Vapor Removal. No wiring systems of any type shall be installed in ducts used to transport dust, loose stock, or flammable vapors. No wiring system of any type shall be installed in

any duct, or shaft containing only such ducts, used for vapor removal or for ventilation of commercial-type cooking equipment.

(B) Ducts or Plenums Used for Environmental Air.

Only wiring methods consisting of Type MI cable, Type MC cable employing a smooth or corrugated impervious metal sheath without an overall nonmetallic covering, electrical metallic tubing, flexible metallic tubing, intermediate metal conduit, or rigid metal conduit without an overall nonmetallic covering shall be installed in ducts or plenums specifically fabricated to transport environmental air. Flexible metal conduit shall be permitted, in lengths not to exceed 1.2 m (4 ft), to connect physically adjustable equipment and devices permitted to be in these ducts and plenum chambers. The connectors used with flexible metal conduit shall effectively close any openings in the connection. Equipment and devices shall be permitted within such ducts or plenum chambers only if necessary for their direct action upon, or sensing of, the contained air. Where equipment or devices are installed and illumination is necessary to facilitate maintenance and repair, enclosed gasketed-type luminaires (fixtures) shall be permitted.

(C) Other Space Used for Environmental Air. This section applies to space used for environmental air-handling purposes other than ducts and plenums as specified in 300.22 (A) and (B). It does not include habitable rooms or areas of buildings, the prime purpose of which is not air handling.

Exception: This section shall not apply to the joist or stud spaces of dwelling units where the wiring passes through such spaces perpendicular to the long dimension of such spaces.

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LAMPS AND BALLASTS

CONTENTS

Ballast Characteristics

707

Discharge Lamps and Ballasts

 $Luminaires\ may\ utilize\ fluorescent\ or\ high\ intensity\ discharge\ sources\ that\ contain$ small amounts of mercury. New disposal labeling for these lamps includes the mercury identifier shown below to indicate that the lamp contains mercury and should be disposed of in accordance with local requirements.



Information sources regarding lamp recycling and disposal are included on the packaging of most mercury-containing lamps and also can be located at www.lamprecycle.org.

TECHNICAL SUPPORT FOR LAMP AND BALLAST SUPPLIERS

Lamp Supplier	Phone
GE	800-GE LAMPS
Philips	800-555-0050
SYLVANIA	800-255-5042
Venture	800-451-2606
Ballast Supplier	Phone
Advance Transformer Co	800-372-3331, ext. 2
Aromat Corporation	888-427-6628
Denki Corporation of North America	800-908-8882
Future Wave Technologies, Inc.	508-460-3300
Howard Industries, Inc.	800-956-3456, ext. 1654
Lutron Electronics Co., Inc.	800-523-9466
OSRAM SYLVANIA	800-654-0089
OSRAM SYLVANIA, Canada	905-673-6171
Radionic Industries, Inc.	773-804-0100
Robertson Worldwide	800-323-5633, ext. 5
Universal Lighting Technologies	800-225-5278, ext. 538
Venture Lighting International	800-451-2606

Linear Fluorescent

Lamp Ordering & Availability 708 Generic Electronic Ballasts 709 Magnetic Ballast Data 710 **Ballast Testing** 711

Compact Fluorescent

Lamp Ordering & Availability 712 Ballast Data 713

High Intensity Discharge

Lamp Data	714
Ballast Data	716
Ballast Circuit Data	720
Ballast Testing	722



All electric discharge lamps are characterized as negative resistance light sources. Therefore, they require support devices that limit the current when voltage is applied, to prevent the lamp from being destroyed. The ballast is the device limiting the current capability.

Additionally, the ballast provides the lamp with proper voltage to reliably start and operate the lamp throughout its rated service life. A transformer integral to the ballast circuit matches voltage required for the lamp to the available supply voltage.

Fluorescent and H.I.D. lamps exhibit several electrical characteristics that have important effects on ballasts. The following definitions will help explain those characteristics.

Starting Voltage

Fluorescent rapid start lamps contain cathodes which are preheated by the ballast. A variety of fluorescent rapid start ballasts are available to produce reliable starting for specific ambient temperatures. Mercury vapor and most metal halide lamps incorporate integral starting electrodes which allow the lamps to start at relatively low voltages in ambient temperatures ranging above -20°F (-30°C).

High pressure sodium and low wattage (≤ 150 watts) metal halide lamps require separate electronic starting devices (called "ignitors") which deliver a high voltage pulse to establish the arc. HPS will start reliably above -40°F (-40°C) ambient temperatures. The pulse repeats each cycle with a maximum pulse width of 15 microseconds. Once the lamp arc is established, the ignitor drops out of the circuit.

Starting Current

This is the initial current available to the lamp during warm-up. If the current is incorrect, the lamp may not start or reach its rated operating performance. Rated lamp life may be affected.

Operating Current

Operating current is the rated current flow under nominal operating conditions once the lamp arc has been established and is performing at rated levels. The starting current may differ from the operating current. Care should be taken to load circuits to the highest load conditions (amperes). Normal power factor ballasts have higher starting currents than operating. Low wattage (100 watts or less) metal halide and HPS lamps have the highest current demand during restrike (hot start).

Fluorescent lamp operating voltage remains relatively constant throughout rated life. Lamp life, ballast life, and light output may be affected if the operating voltage varies significantly from the voltage specified for the ballast. In general, fluorescent ballasts should be operated within $\pm 7\%$ of their rated voltage.

Mercury vapor and metal halide lamp operating voltage remains relatively constant throughout rated life, although lamp manufacturing tolerances can allow for as much as $\pm 10\%$ variance

from nominal. As a result, depending on the type of ballast being used, H.I.D. lamp wattage may vary considerably. High pressure sodium lamp operating voltage rises continually from initial installation until end of life.

HPS ballasts are designed to provide increased voltage requirement to the lamp through rated life. For example, a 400W HPS lamp normally starts at 100 volts and increases to 140 volts at end of life.

Operating Wattage

Fluorescent lamps operate at rated wattage if the supply voltage is nominal and the lamp is operating at an ambient temperature of 77°F (25°C). H.I.D. lamps operate at rated wattage only if the lamp voltage and supply voltage is nominal. Lamp wattage, light output, and lamp life may be affected if any conditions vary from nominal.

Crest Factor

Crest factor is the ratio of peak to RMS (root mean square) current. For example, the crest factor of a true sine wave form is 1.41. Lamp manufacturers' published data is based on lamps operated on a standard reactor ballast with a 1.41 crest factor. Input voltage to a commercial ballast is a sine wave, but the secondary voltage wave shape in the inductive and capacitive type ballast is distorted, and their crest factors are higher than 1.41.

Tests indicate that ballasts with higher crest factors may result in depreciation of lumen output or reduced lamp life. In general, a maximum lamp current crest factor of 1.7 for fluorescent ballasts is recommended. H.I.D. constant wattage and constant wattage autotransformer ballasts have a crest factor of about 1.8. Metal halide and HPS ballasts approach 1.65. H.I.D. lamp recommendations suggest a maximum crest factor of 2.0 for mercury vapor and 1.8 for metal halide and HPS.

Power Factor

Power factor (the phase between voltage and current) is the ratio of line watts to line volts x line amps, expressed in a percentage. A high power factor (HPF) ballast must have a power factor of at least 90% at nominal line voltage and lamp voltage. In most cases as the lamp and capacitors age, the power factor will drop below 90%. A normal power factor (NPF) ballast has a power factor below 90%, usually around 50%. NPF compact fluorescent ballasts can be as low as 28%.

A normal power factor ballast has almost twice the line current as a high power factor ballast, thereby requiring larger wire sizes, breakers, switches, etc. for the equivalent connected load. Some power utilities may assess a penalty charge for inefficient use of power due to low power factor equipment.

Radio Frequency Interference (RFI) and Electromagnetic Interference (EMI)

Electronic fluorescent ballasts generally operate at a frequency in excess of 20,000 Hz to optimize lamp efficacy. Electronic ballasts may feed back interference into the power system resulting in in-

terference with sensitive electronic equipment such as communications or data processing equipment. High-quality electronic ballasts use filters and enclosures to reduce conducted and radiated EMI to acceptable limits as specified by the Federal Communications Commission (FCC).

Ballast Sound Ratings

Core and coil ballasts may produce a slight hum due to the magnetic action within the ballast. Fluorescent ballasts are sound rated by a letter code, A through D. An A sound rating is the quietest ballast and is typically recommended for commercial applications. Because solid state electronic ballasts do not contain a core and coil, they will generally operate quieter than magnetic ballasts.

Ballast Case Temperature

The ballast case temperature is affected by changes in ambient temperature and voltage increase. Fluorescent ballasts contain a Class P thermal switch which will disconnect the ballast if it exceeds 105°C. Excessive ambient temperature or voltage supply may significantly reduce the life of the ballast.

Harmonic Distortion

All ballasts generate harmonic currents of some magnitude in the electrical distribution system. The ratio of RMS (root mean square) harmonic current to the RMS fundamental current is the Total Harmonic Distortion or THD. THD is often used to assess the ability of a fluorescent electronic ballast to control harmonic currents. The ANSI standard for electronic ballasts specifies a maximum THD of 32%. Conventional magnetic ballasts are generally in the range of 10% to 20%. Most hybrid electronic ballasts (containing both electronic and electromagnetic components) fall into the area of 20% to 30% THD. Solid state electronic ballasts (containing virtually all electronic components) are usually less than 10%.

Ballast Regulation

This is the ability of a ballast to control lamp wattage when subjected to line voltage variation. Consideration should be given to line voltage variations expected on a given electrical system where H.I.D. lamps are used. Most new power distribution systems are designed to provide $\pm 3\%$ of nominal voltage. However, some systems, especially older ones, may have variances up to $\pm 10\%$ from nominal. Regulation characteristics for various ballast types are listed in the ballast data tables. Typically the cost of a ballast rises with the degree of regulation available. The better the regulation, the higher the cost.

Primary Dropout Voltage

All power distribution systems experience dips and peaks in line voltage as well as other transient conditions. Well-regulated systems seldom see voltage fluctuations of 20% or more. Be sure to check the primary dropout voltage rating on H.I.D. ballasts if voltage variations are of concern. Voltage dips in excess of this rating may cause the lamps to extinguish and recycle.



Lamp Ordering and Availability

Ordering Information

	Wattage Length/Bulb	Manufacturer LPG = GE	Color/Job Pack Designation											
	Designation	LPS = SYLVANIA LPP = Philips	CW	CWX	WW	WWX	2700	3000	3500	4100	5000	6500	7500	DAY
	F13T5 F13T5	LPP	CW		1444/104									
	F17T8	LPS LPG	CWJ24		WW J24			730J24 830J24	735J24 835J24 SP35J24	741 J24 841 J24	850J24			
	F17T8	LPS					827 J30		735J30 835J30 M735J30 M835EXJ30	741 J30 841 J30				
	F17T8	LPP						TL830J25		TL741J25 TL841J25				
	F25T8	LPG						730J24 830J24	735J24 SP35J24 SX35J24	741 J24 SX41 J24				
	F25T8	LPS					827J30		M735J30 M835EXJ30	M741J30 M841EXJ30				
	F25T8 F30T12	LPP LPG						TL730J25 TL830J25	TL735J25 TL835J25 SX35J24	TL741J25 TL841J25				
								ME730EXJ36	3A33JZ4	M741EXJ36				
	F32T8	LPG						IVIL / JULA JU	M835J36	ME741EXJ36		SP65J36		
Linear Fluorescent	F32T8	LPS					827J30	730J30 830J30 M730J30	735J30 835J30 835EXJ30 M735J30 M835J30 M835EXSJ30	741J30 841J30 M741J30 M841J30 M81EXJ30 M841EXSJ30	850J30			
	F32T8	LPP						M730J25 M830J25 TL930J25	M735J25 M835J25	M741.J25 M741EX.J25 M841.J25 M841EX.J25 M841EXL.J25	TL950J25			
	F39T5H0	LPS							835J40					
	F40T12 F40T12	LPG LPP	ESCWJ30					ME730SJ30	SP35J30 M835J25					
	F40T12	LPS	ESCW J30					IVIL/303330	IVIOSSIJZS					
	F48T12H0	LPG	.124						SP35J24					
	F48T12H0	LPS								D41J30				
	F48T8H0	LPP							TL735J24 TL835J24					
	F54T5H0	LPG								841J40				
	F54T5H0	LPS						830J40	835,140	841 J40				
	F54T5H0 F96T12	LPP LPS							835J40 ESD35J15					
	F96T12H0	LPS	CTJ15						SP35J15					
	F96T12H0	LPS	ESCWJ15						01 003 10					
	F96T8	LPG							SP35J24					
	F96T8	LPS							835J24	841J24				
	F96T8H0	LPG							SP35J24 SX35J24					
	F96T8H0	LPP							735J24 835J24 735J24	841 J24				
	F96T8H0	LPS							835J24 835J15	841 J24				
(0	FB31T8 FB32T8	LPS LPG						830J15	835EXJ15 SP35J12	841 J15				
U Lamps									SX35J12					
UL	FB32T8	LPP						M830J20	TL835J20 735J16					\vdash
	FB32T8 FB40T12	LPS LPS	ESCWJ12					730J16	835J16 835J16	741 J16				
	FCF18	LPS	ESCANTIS					SX30J40						
<u> </u>	FCF39	LPG						3/3/0340	SX35J40					
Compact Fluor.	FCF40	LPG							SX35J36	SX41 J36				
act	FCF40	LPP							TL835J25	TL841J25				
omp	FCF40	LPS						830J10	835J10	841J10				
3	FCF55	LPS						830J10	835J10	841J10				
NOTES														

NOTES:

- 1 The table above shows those lamps commonly available through Lithonia Lighting. Please contact $your Lithonia \, representative \, or \, your \, lamp \, manufacturer$ $for other lamps \ available \ from \ these \ manufacturers.$
- 2 Performance for these lamps will vary, contact your lamp supplier for specific performance information.
- Many lamps meet the Federal EPATCLP test and are available from several lamp manufacturers. Consult your lamp manufacturer for availability.
 Jxx (example: J24) refers to the number of lamps in a single job pack.



Example: F32T8 LPPM730 J25

Generic Electronic Ballasts

Generic Electronic Ballast Option

Lithonia Lighting maintains in its distribution centers and selected field warehouses the industry's largest and broadest inventory of luminaires with popular electronic ballasts. If ballast quality, performance and availability are a concern, but you have no vendor preference, specify Lithonia's generic electronic ballast option. This ensures you an electronic ballast that meets or exceeds ANSI standards for high-frequency electronic ballasts. Ballasts are from nationally-recognized manufacturers with established warranty and service programs.

Specify **GEB** for ballasts with less than 20%THD. Specify **GEB10IS**, **GEB10RS** and **GEB10PS** for ballasts with less than 10%THD. Multi-volt option (**MVOLT**) currently is available in *less than 10% THD ballasts* only. GEB10IS is standard MVOLT.

GEB/GEB10_Specifications

- UL Listed. CSA Certified. Thermally protected Class P, non-PCB ballast.
- Minimum line transient as shown in IEE587,
 Category A and ANSI-62.41.
- Ballast circuit type: instant or rapid start, series or parallel wired.
- Ballast operation: 120V nominal (108V-132V) 60Hz, 277V nominal (249V-305V) 60 Hz, MVOLT (108V-305V) 50Hz or 60Hz, or 347V nominal (312V-381V) 60Hz.
- Ballast meets 1988 Federal Efficacy Standard (Law 100-357) where applicable.

- Meets FCC rules/regulations Part 18, 15J for EMI / RFI.
- Minimum lamp starting temperatures: 0°F (-17.8°C) for T5, T5HO, and T8 lamps, 50°F (10°C) for rapid start T8 and T12 standard lamps and 60°F (15.6°C) for T12 energy-saving lamps.
- Power factor equal to or greater than .95.
- Maximum lamp crest factor 1.7.
- Minimum 5-year ballast manufacturer's warranty.
- Ballasts meet all requirements of ANSI C82.11.

Ordering Information

Example: 2SP8 G 3 32 A12 MVOLT 1/3 GEB10IS

			_
Voltage		Configuration	
120	(blank) Star	ndard	G
277	(see	e box at lower right)	GEB10
347	1/3 One	: 3-lamp ballast	GEB10
MVOLT ¹	1// One	A-lamn hallast	GER10

Type GEB ≤20 THD GEB10IS ≤10 THD, instant start, multi-volt GEB10RS ≤10 THD, rapid start GEB10PS ≤10 THD, program start²

NOTES:

- 120-277V. Must specify GEB10IS.
- 2 Available for standard T5 and T5HO lamps in 347V or MVOLT only.
- 3 IS = instant start, RS = rapid start.
- 4 S = series, P = parallel. Slimline = series lead or lead lag.
- 5 Single ballast operating all lamps in 3-lamp or 4-lamp configuration.

GEB/GEB10_ Performance

	Lithonia Iamp descr.	Lamp type	Lamp wattage	No.of lamps operated	Max. ANSI watts	Min. ballast factor	Circuit type ³	Circuit wiring ⁴	Sound rating
GEB10IS only	U31 U316 32	24" T8 U(1 ⁵ / ₈ ") 24" T8 U(6") 48" T8	Std	1 2 3 ⁵ 4 ⁵	32 59 88 113	0.85	IS	Р	A
ORS	U31 U316 32	24" T8 U(1 ⁵ / ₈ ") 24" T8 U(6") 48" T8	Std	1 2 3 ⁵ 4 ⁵	39 62 95 114	0.85	IS or RS	S or P	A
GEB and GEB10RS	40 U40	48" T12 24" T12 U(6")	Std	1 2 3 ⁵	38 74 110	0.85	RS	S	А
	U403	24" T12 U (3")	ES	1 2 3 ⁵	31 63 93	0.83	RS	S	A
GEB and GEB10IS	CF 40	24" TT5	Std	2 3 ⁵	70 101	0.85	IS	Р	А
3 and	96	96" T8	Std	2	110	0.85	IS	Р	Α
GEF	96T8H0	96" T8	Std	2	160	0.85	RS	S	Α
GEB10PS	54T5H0	48" T5H0	Std	1 2	62 121	1.10 1.00	PS	S	А
E 0E	28T5	48" T5	Std	1 2	33 66	1.04 1.03	PS	S	А
GEB only	96	96" T12	Std ES	2	140 116	0.85	IS	Slimline ⁴	В
95	96H0	96" T12 H0	Std ES	2	209 178	0.85	RS	S	В

Lithonia Standard Ballast Configurations

- 1-lamp fixtures: One 1-lamp ballast
- 2-lamp fixtures: One 2-lamp ballast
- 3-lamp fixtures: One 1-lamp ballast, one 2-lamp ballast
- 4-lamp fixtures: Two 2-lamp ballasts

Magnetic Ballast Data

Fluorescent Ballasts¹

Fluorescent ballasts are designed to meet the electrical requirements of a specific type of lamp. Preheat, slimline instant start and rapid start are commonly used ballasts. Preheat and rapid start ballasts provide a starting current to heat the lamp electrodes before the lamp is ignited. Slimline instant start ballasts ignite the lamp by providing a high initial voltage between the lamp electrodes. A larger autotransformer is required for these ballasts to create the high starting voltage. Since fluorescent systems generally are used indoors, fluorescent ballasts incorporate a thermal protective device (Class P switch) to prevent a fire hazard if the ballast should overheat.



Fluorescent Ballast Legislation

The US Department of Energy and Natural Resources Canada has approved legislation that will phase out virtually all T12 fluorescent magnetic ballasts with the exception of dimming ballasts and residential grade ballasts. The intent of the ruling is to convert commercial T12 systems to more efficient electronic T8 systems. The rulemaking will ultimately cover ballasts for 1 and 2 lamp F40T12 lamps; 2 lamp F96T12 and 2 lamp F96T12HO lamps — standard and energy-saving type lamps. Canada legislation also covers T8 magnetic systems. Under the terms of the rulemaking, luminaire manufacturers cannot purchase covered T12 magnetic ballasts on or after July 1, 2005. Magnetic T12 ballasts will be available for replacement into existing commercial and industrial products until June 30, 2010. For more information regarding the legislation or for additional ballast information, review our web information at:

www.lithonia.com/products/groups/fluorescent/mvolt/

NOTES:

- 1 All data based on magnetic ballasting. For information regarding operation of electronic ballasts, consult ballast manufacturer's technical data.
- 2 For 347V or other voltages, consult factory.

Magnetic Ballast Data

Lamp Type	Power Factor	Minimum Starting	Primary Voltage ²	Operating Current	Input Wattag
Preheat – Trigger St		Starting	voitage	ouncin	wattag
(1) F15WT8, T12	HPF	10°C/50°F -18°C/0°F	120 277	0.27 0.12	32
(2) F15WT8, T12	HPF	-18°C/0°F	120 277	0.47 0.20	53 56
Slimline and Instant	Start		211	0.20	30
(1) F48T12	HPF	-18°C/0°F	120 277	0.55 0.24	61
(2) F48T12	HPF	10°C/50°F	120 277	0.85 0.37	102
(1) F72, F96T12	HPF	-18°C/0°F	120 277	0.85 0.35	100
(2) F96T12	HPF	10°C/50°F	120 277	1.35 0.60	158
Rapid Start					
(1) F25T8	HPF	10°C/50°F	120 277	0.30 0.12	33
(2) F25T8	HPF	10°C/50°F	120 277	0.55 0.24	65
(1) F30T12	HPF	10°C/50°F	120 277	0.40 0.18	46 48
(2) F30T12	HPF	10°C/50°F	120 277	0.68 0.30	81
(1) F32T8	HPF	10°C/50°F	120 277	0.32 0.14	37
(2) F40T8	HPF	10°C/50°F	120 277	0.61 0.26	71
(1) F40T12 (34 watt)	HPF	16°C/60°F	120 277	0.38 0.16	43
(2) F40T12 (34 watt)	HPF	16°C/60°F	120 277	0.63 0.27	72
(1) F40T10,T12	HPF	10°C/50°F	120 277	0.43 0.19	50
(2) F40T10,T12	HPF	10°C/50°F	120 277	0.73 0.32	86
300mA – High Outpu	ıt				
(1) F48T12H0	HPF	10°C/-20°F	120	0.75	85
			277	0.32	80
(2) F48T12H0	HPF	10°C/-20°F	120 277	1.30 0.56	145
(1) F72 or F96T12H0	HPF	-28°C/-20°F	120 277	1.15 0.50	135
(2) F96T12H0	HPF	-28°C/-20°F	120 277	2.05 0.88	237
1500mA – Very High	Output/P	ower Groove			
(1) F96PG/VH0/SH0	HPF	-28°C/-20°F	120 277	3.30 1.35	375
75 Twin Fluorescent					
(1) FT24W, 27W	HPF	10°C/50°F	120 277	0.28 0.12	32
(2) FT24W, 27W	HPF	10°C/50°F	120 277	0.58 0.25	66
(1) FT36W, 39W	HPF	10°C/50°F	120 277	0.44 0.19	51
(2) FT36W, 39W	HPF	10°C/50°F	120 277	0.76 0.34	88
(1) FT40W	HPF	10°C/50°F	120 277	0.40 0.18	45 46
(2) FT40W	HPF	10°C/50°F	120	0.69	82



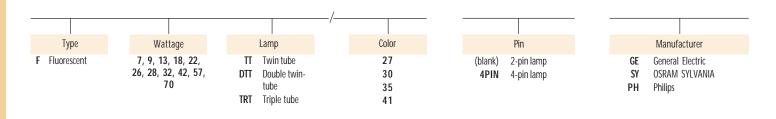
Fluorescent Magnetic (60Hz) Ballasts

Type of Ballast	Type of Measurement	Equipment Required	Testing Procedure
Preheat	Starting Current and Operating Current	Ammeter (0–1 amp scale)	Measure amps between lamp and colored high-voltage secondary ballast lead. Remove lamp.
	Starting Voltage	Voltmeter (0-300V scale)	1-lamp: Measure voltage between red lead and white lead. 2-lamp: Measure voltage between a red lead and white lead; between blue lead and white lead.
Rapid Start	Starting Voltage	Voltmeter	Measure voltage between a blue lead and highest-reading red lead.
	Filament Voltage	(0-1000V scale) Voltmeter	1-lamp: Measure voltage between two red leads; between two blue leads. 2-lamp: Measure voltage between two red leads; between two blue leads; between
		(0-1000V scale)	two yellow leads.
00mA	Starting Voltage	Voltmeter	Measure voltage between a blue lead and highest-reading red lead.
	Filament Voltage	(0-1000V scale)	1-lamp: Measure voltage between two red leads; between two blue leads.
	mamon voltage	Voltmeter (0-1000V scale)	2-lamp: Measure voltage between two red leads; between two blue leads; between two yellow leads.
500mA	Starting Voltage	Voltmeter	Measure voltage between a blue lead and highest-reading red lead.
Filament Volt	Eilamant Valtaga	(0-1000V scale)	1-lamp: Measure voltage between two red leads; between two blue leads.
	i nameni voitage	Voltmeter	2-lamp: Measure voltage between two red leads; between two blue leads; between two yellow leads.
Slimline	Starting Voltage	Voltmeter (electrostatic or high-voltage type, 0- 1000V scale)	Remove lamp. Measure voltage between primary and secondary leads of each lamp as indicated below. For series-sequence ballast, red lead must be in position while measuring starting voltage of remaining lamp.
			1-lamp: Measure between red lead and white lead.
			2-lamp (series): Measure between red lead and white lead. Insert lamp in red and white position and measure between blue lead and black lead.
			2-lamp (lead lag): Measure between red lead and white lead; between blue lead and white lead.
nstantStart	Starting Voltage	Voltmeter (electrostatic or high-voltage type, 0- 1000V scale)	Remove lamp. Measure voltage between primary and secondary leads of each lamp as indicated below. For series-sequence ballast, red lead must be in position while measuring starting voltage of remaining lamp.
			1-lamp: Measure between red lead and white lead.
			2-lamp (series): Measure between red lead and white lead. Insert lamp in red and white position and measure between blue lead and black lead.
			2-lamp (lead lag): Measure between red lead and white lead; between blue lead and white lead.



Lamp Ordering & Availability

Example: F18DTT/35 4PIN GE



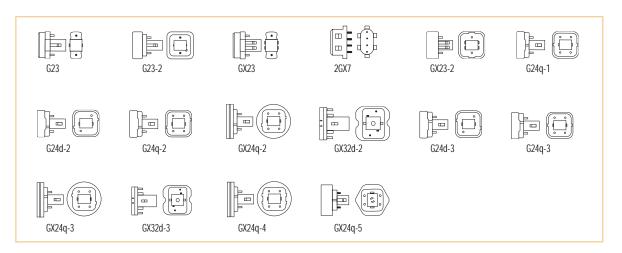
Availability of Compact Fluorescent Lamps

\blacksquare = Available

Wattage/		Col	nr		F	Pin	Base
Lamp Type	27	30	35	41	2-pin	4-pin	Configuration
7TT	1,2,3		1,2,3	1,2,3			G23
9TT	1,2,3		1,2,3	1,2,3			G23
9DTT	1,2	2	2	1			G23-2
13TT	1,2,3	1,2,3	1,2,3	1,2,3			GX23
13TT	2	2		2		-	2GX7
13DTT	1,2,3	1,2,3	1,2,3	1,2,3			GX23-2
13DTT	1,2,3	1,2,3	1,2,3	1,2,3		-	G24q-1
18DTT	1,2,3	1,2,3	1,2,3	1,2,3			G24d-2
18DTT	1,2,3	1,2,3	1,2,3	1,2,3		•	G24q-2
18TRT	1,2,3	1,2,3	1,2,3	1,2,3		-	GX24q-2
22DTT	3						GX32d-2
26DTT	1,2,3	1,2,3	1,2,3	1,2,3			G24d-3
26DTT	1,2,3	1,2,3	1,2,3	1,2,3		-	G24q-3
26TRT	1,2,3	1,2,3	1,2,3	1,2,3		-	GX24q-3
28DTT	3						GX32d-3
32TRT	1,2,3	1,2,3	1,2,3	1,2,3		-	GX24q-3
42TRT	1,2,3	1,2,3	1,2,3	1,2,3		•	GX24q-4
57TRT	2	2	2	2		•	GX24q-5
70TRT	2	2	2	2		•	GX24q-5

NOTES:

- 1 Available from General Electric.
- 2 Available from OSRAM SYLVANIA.
- 3 Available from Philips.





Electronic BallastsPower Factor > 98%, THD<10%, flicker-free starting, 4-pin lamp

			0 1 1		Electrical information							
Wattage/	No. of		Starting temp.		12	0V	27	7V	34	7V		
Wattage/ lamp type	lamps	120V	277V	347V	Input watts	Max. amps	Input watts	Max. amps	Input watts	Max. amps		
13TT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	30	0.25	29	0.11	N/A	N/A		
13DTT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	18	0.15	18	0.07	18	0.06		
ווענו	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	32	0.27	32	0.12	33	0.10		
18DTT,	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	22	0.16	22	0.07	21	0.06		
18TRT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	40	0.30	40	0.13	38	0.11		
26DTT,	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	28	0.25	28	0.11	31	0.09		
26TRT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	56	0.49	56	0.21	57	0.17		
	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	36	0.32	36	0.14	36	0.11		
32TRT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	69	0.58	69	0.26	62	0.19		
AOTOT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	48	0.42	48	0.18	50	0.15		
42TRT	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	94	0.78	94	0.33	80	0.25		
57TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	59	0.50	59	0.21	61	0.18		
3/161	2	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	118	1.00	118	0.42	122	0.36		
70TRT	1	0°F (-18°C)	0°F (-18°C)	0°F (-18°C)	75	0.63	75	0.27	74	0.21		

Electromagnetic Ballasts

Power Factor –	Normal =	50%, High <u>≥</u> 9	0%, 2-pin lamp			Electrical information							
Wattage/ lamp type	No. of	Power	1201/	Starting temp.	2471/		0V	27			347V		
	lamps	factor	120V	2777	347V	Input watts	Max. amps	Input watts	Max. amps	Input watts	Max. amps		
7TT	1	Normal	0°F (-18°C)	N/A	N/A	9	0.19	N/A	N/A	N/A	N/A		
	2	Normal	0°F (-18°C)	N/A	N/A	18	0.38	N/A	N/A	N/A	N/A		
9TT	1	Normal	25°F (-4°C)	N/A	N/A	10	0.19	N/A	N/A	N/A	N/A		
	2	Normal	25°F (-4°C)	N/A	N/A	20	0.38	N/A	N/A	N/A	N/A		
9TT	1	High	25°F (-4°C)	0°F (-18°C)	N/A	11	0.20	13	0.18	N/A	N/A		
	2	High	25°F (-4°C)	0°F (-18°C)	N/A	18	0.25	17	0.16	N/A	N/A		
13TT,	1	Normal	32°F (0°C)	0°F (-18°C)	N/A	17	0.44	16	0.35	N/A	N/A		
13DTT	2	Normal	32°F (0°C)	0°F (-18°C)	N/A	34	0.88	32	0.70	N/A	N/A		
13TT,	1	High	32°F (0°C)	0°F (-18°C)	32°F (0°C)	16	0.36	24	0.30	22	0.30		
13DTT	2	High	32°F (0°C)	0°F (-18°C)	32°F (0°C)	35	0.44	27	0.35	35	0.15		
18DTT	1	Normal	50°F (10°C)	50°F (10°C)	N/A	25	0.48	22	0.27	N/A	N/A		
	2	Normal	50°F (10°C)	50°F (10°C)	N/A	50	0.96	44	0.54	N/A	N/A		
18DTT	1	High	50°F (10°C)	50°F (10°C)	15°F (-9°C)	23	0.35	23	0.27	24	0.25		
	2	High	50°F (10°C)	50°F (10°C)	15°F (-9°C)	44	0.73	42	0.28	48	0.50		
22DTT	1	High	0°F (-18°C)	N/A	N/A	26	0.62	N/A	N/A	N/A	N/A		
	2	High	0°F (-18°C)	N/A	N/A	52	1.24	N/A	N/A	N/A	N/A		
26DTT	1	Normal	50°F (10°C)	50°F (10°C)	N/A	33	0.67	31	0.33	N/A	N/A		
	2	Normal	50°F (10°C)	50°F (10°C)	N/A	66	1.34	62	0.66	N/A	N/A		
26DTT	1	High	50°F (10°C)	50°F (10°C)	25°F (-4°C)	28	0.41	32	0.38	36	0.25		
	2	High	50°F (10°C)	50°F (10°C)	25°F (-4°C)	50	0.42	58	0.32	72	0.50		
28DTT	1	High	-20°F (-29°C)	N/A	N/A	32	0.84	N/A	N/A	N/A	N/A		
	2	High	-20°F (-29°C)	N/A	N/A	64	1.68	N/A	N/A	N/A	N/A		

Lamp Data

	Wattage	ANSI	Base – number	Beam bulb type	Burning position	Coated	Manufacturer ¹	Lithonia Cat. No. ²
letal Halide ³	50M	M110	MED-ED17	,,	Universal	Yes	PH, GE, VE	MH50M/C/U
otal Hando	70M	M98	MED-ED17		Universal	Yes	PH, GE, VE	MH70M/C/U
	100M	M90	MED-ED17		Universal	Yes	PH, GE, VE	MH100M/C/U
	150M	M102	MED - ED17		Universal	No	PH, GE, SY, VE	MH150M/U
	175M	M137 or M152	MOG - ED28		Base up	Yes	PH, GE, VE	MS175BU PSL
	175M	M137 or M152	MOG - ED28		Base up	No	GE, VE	MS175C/BU PSL
	200M	M136	MOG - ED28		Universal	Yes	VE	MS200U PSL
	200M	M136	MOG - ED28		Universal	No	VE	MS200C/U PSL
	250M	M138 or M153	MOG - ED28		BU-HOR	Yes	VE	MS250C/BUH PSL
	250M	M138 or M153	MOG - ED28		BU-HOR	No	VE	MS250BUH PSL
	250M	M138 or M153	MOG - ED28		Base up	Yes	GE, SY	MS250C/BU PSL
	250M	M138 or M153	MOG - ED28		Base up	No	PH, GE, SY	MS250BU PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	Yes	VE	MS300R/C BUD PSL
	300M	M151	MOG - ED28		Vertical +/- 15°	No	VE	MS300R/BUD PSL
	320M	M132 or M154	MOG - ED28		Universal	Yes	PH	MS320R/C/U PSL PH
	320M	M132 or M154	MOG - ED28		Universal	No	PH	MS320R/U PSL PH
	320M	M132 or M154	MOG - ED28		Vertical +/- 15°	Yes	GE, VE	MS320R/BU PSL
	320M	M132 or M154	MOG - ED28		Vertical +/- 15°	No	GE, VE	MS320R/C BU PSL
	320M	M132 or M154	MOG - ED28		BU-HOR	Yes	SY	MS320R/C BU PSL S
	320M	M132 or M154	MOG - ED28		BU-HOR	No	SY	MS320R/BU PSL SY
	350M	M131	MOG - ED37		Universal	Yes	PH, GE, VE	MS350C/BUD PSL
	350M	M131	MOG - ED37			No No		MS350/BUD PSL
					Universal		PH, GE, VE	
	400M	M135 or M155	MOG - ED37		Base up	Yes	PH, GE, SY, VE	MS400C/BU PSL
	400M	M135 or M155	MOG - ED37		Base up	No	PH, GE, SY, VE	MS400BU PSL
	450M	M144	MOG - ED37		Base up	Yes	VE	MS450C/BU PSL
	450M	M144	MOG - ED37		Base up	No	VE	MS450BU PSL
	750M	M149	MOG - BT37		Base up	Yes	GE	MS750C/BU PSL
	750M	M149	MOG - BT37		Base up	No	GE	MS750BU PSL
	750M	M149	MOG - BT37		BU-HOR	No	SY	MS750BUH PSL
	875M	TBD	MOG - BT37		Base up	No	VE	MS875R/BU PSL
	1000M	M141	MOG - BT37		Universal	No	SY	MS1000R/U PSL
	1000M	M141	MOG - BT37		Base up	No	PH, SY, VE	MS1000R/BU PSL
	1500M	M48	MOG-BT56		BU-HOR	No	PH, GE, SY	MH1500BUH
		M48	MOG-BT56		BD BD	No		MH1500BD
	1500M						PH, GE, SY	
al Halide4	50M	M110	MED-ED17		Universal	Yes	PH, SY, VE	MP50M/C/U
	70M	M98	MED-ED17		Universal	Yes	PH, GE, SY, VE	MP70M/C/U
	100M	M90	MED-ED17		Universal	Yes	PH, GE, SY, VE	MP100M/C/U
	150M	M102	MED-ED17		Universal	Yes	SY	MP150M/C/U
	175M	M57	MOG - ED28		Base up	Yes	SY	MP175C/BU
	175M	M57	MOG - ED28		Base up	No	PH, SY	MP175BU
	200M	M136	MOG - ED28		Vertical +/- 15°	Yes	VE	MP200C/BUD PSL
	200M	M136	MOG - ED28		Vertical +/- 15°	No	VE	MP200BUD PSL
	250M	M58	MOG - ED28		Base up	Yes	SY	MP250C/BU
	250M	M58	MOG - ED28		Base up	No	PH, SY	MP250BU
	250M	M138 or M153	MOG - ED28	<u> </u>	Base up	Yes	VE	MP250C/BU PSL
	250M	M138 or M153	MOG - ED28		Base up	No	VE	MP250BU PSL
				 				
	300M	M151	MOG - ED28	 	Vertical +/- 15°	Yes	VE	MP300R/C BU PSL
	300M	M151	MOG - ED28	-	Vertical +/- 15°	No	VE VE	MP300R/BU PSL
	320M	M132 or M154	MOG - ED28		Base up	Yes	GE, SY, VE	MP320R/C BU PSL
	320M	M132 or M154	MOG - ED28		Base up	No	GE, SY, VE	MP320R/BU PSL
	350M	M131	MOG - ED37		Vertical +/- 15°	Yes	VE	MP350C/BUD PSL
	350M	M131	MOG - ED37		Vertical +/- 15°	No	VE	MP350BUD PSL
	350M	M131	MOG - ED37		Base up	Yes	GE, SY	MP350C/BU PSL
	350M	M131	MOG - ED37		Base up	No	GE, SY	MP350BU PSL
	400M	M59	MOG - ED37		Universal	Yes	PH, GE, SY, VE	MH400C/U
	400M	M59	MOG - ED37		Universal	No	PH, GE, SY, VE	MH400U
	400M	M59	MOG - ED37		Base up	Yes	PH, GE, SY	MP400C/BU
	400M	M59	MOG - ED37		Base up	No No	PH, GE, SY	MP400BU
				-				
	400M	M135 or M155	MOG - ED37	 	Base up	Yes	PH, GE, SY, VE	MP400C/BU PSL
	400M	M135 or M155	MOG - ED37	-	Base up	No	PH, GE, SY, VE	MP400BU PSL
	450M	M144	MOG - ED37		Base up	Yes	VE	MP450C/BU PSL
	450M	M144	MOG - ED37		Base up	No	VE	MP450BU PSL
	1000M	M47	MOG - BT56		Base up	Yes	SY	MP1000C/BU
	1000M	M47	MOG - BT56		Base up	No	SY	MP1000BU
	1000M	M47	MOG - BT56		Universal	Yes	PH, GE, SY, VE	MH1000C/U
	1000M	IVIT7	14100 P100	1	Jilivoradi	103	1 11, UL, U1, VL	IVII I I UUUU/ U

NOTES:

1 GE = General Electric; SY = OSRAM SYLVANIA; PH = Philips; VE = Venture

- 2 To specify a manufacturer, add manufacturer to item number. Example: MC100M/CUGE.
- $3\quad \text{For use in enclosed rated fixtures only}.$
- 4 For use in open or enclosed rated fixtures.



	Wattage	ANSI	Base –	Beam	Burning	Coated	Manufacturer ¹	Lithonia
	7014	MOO	number MED DADO	bulb type	position Universal	No	DIL CE CV VE	catalog number ²
Metal Halide	70M 70M	M98 M98	MED-PAR38 MED-PAR38	Spot Flood	Universal	No No	PH, GE, SY, VE	MP70P38S MP70P38F
PAR Lamps	70M	M98	MED-PAR38	Wide Flood	Universal	No	PH, GE, SY,VE GE, SY, VE	MP70P38W
	100M	M90	MED-PAR38	Spot	Universal	No	PH, GE, SY, VE	MP100P38S
	100M	M90	MED-PAR38	Flood	Universal	No	PH, GE, SY, VE	MP100P38F
	100M	M90	MED-PAR38	Wide Flood	Universal	No	GE, SY, VE	MP100P38W
	150M	M102	MED-PAR38	Spot	Universal	No	GE, SY	MP150P38S
	150M	M102	MED-PAR38	Flood	Universal	No	GE, SY	MP150P38F
	150M	M102	MED-PAR38	Wide Flood	Universal	No	GE, SY	MP150P38W
Color-Corrected	70M	M98	MED-ED17	Wide Hood	Universal	Yes	PH, GE	MC70M/CU
Ceramic Metal Halide ³	100M	M90	MED-ED17		Universal	Yes	PH, GE	MC100M/CU
ocianne metal nanac	150M	M102	MED-ED17		Universal	Yes	PH	MC150M/CU
0.1.0	70M	M98	MED-ED17		Universal	Yes	PH	MPC70M/CU
Color-Corrected	100M	M90	MED-ED17		Universal	Yes	PH	MPC100M/CU
Ceramic Metal Halide ⁴	150M	M102	MED-ED17		Universal	Yes	PH	MPC150M/CU
	400M	M135 or M155	MOG-ED37		Base up	Yes	GE	MPC400C/BU LP940
	400M	M135 or M155	MOG-ED37		Base up	No	GE	MPC400/BU LP940
	35M	M130	MED-PAR20	Spot	Universal	No	PH	MPC35P20S
Color-Corrected Ceramic	35M	M130	MED-PAR20	Flood	Universal	No	PH	MPC35P205
Metal Halide PAR Lamps	35M	M130	MED-PAR20		Universal		PH	
	35M	M130	MED-PAR30	Spot Flood	Universal	No No	PH	MPC35P30S MPC35P30F
	70M	M98	MED-PAR30	Spot	Universal	No No	PH, GE	MPC70P30S
	70M	M98	MED-PAR30	Flood	Universal	No	PH, GE	MPC70P30F
	70M	M98	MED-PAR38	Spot	Universal	No	PH, GE	MPC70P38S
	70M	M98	MED-PAR38	Flood	Universal	No	PH, GE	MPC70P38F
-	70M	M98	MED-PAR38	Wide Flood	Universal	No	PH	MPC70P38W
	100M	M90	MED-PAR38	Spot	Universal	No	PH, GE	MPC100P38S
	100M	M90	MED-PAR38	Flood	Universal	No	PH, GE	MPC200P38F
	100M	M90	MED-PAR38	Wide Flood	Universal	No	PH	MPC100P38W
High Pressure	35\$	S76	MED-ED17		Universal	Yes	PH, GE, SY	LU35M/C
Sodium	35\$	S76	MED-ED17		Universal	No	PH, GE, SY	LU35M
	50\$	\$68	MED-ED17		Universal	Yes	PH, GE, SY	LU50M/C
	50\$	\$68	MED-ED17		Universal	No	PH, GE, SY	LU50M
	50S	\$68	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU50C
	50\$	\$68	MOG-ED23.5		Universal	No	PH, GE, SY	LU50
	70\$	S62	MED-ED17		Universal	Yes	PH, GE, SY	LU70M/C
	70\$	S62	MED-ED17		Universal	No	PH, GE, SY	LU70M
	70\$	S62	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU70C
	70\$	S62	MOG-ED23.5		Universal	No	PH, GE, SY	LU70
	100S	S54	MED-ED17		Universal	Yes	PH, GE, SY	LU100M/C
	100S	S54	MED-ED17		Universal	No	PH, GE, SY	LU100M
	100S	S54	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU100C
	100S	S54	MOG-ED23.5		Universal	No	PH, GE, SY	LU100
	150S	\$55	MED-ED17		Universal	Yes	PH, GE, SY	LU150M/C
	150S	\$55	MED-ED17		Universal	No	PH, GE, SY	LU150M
	150S	S55	MOG-ED23.5		Universal	Yes	PH, GE, SY	LU150C
	150S	\$55	MOG-ED23.5		Universal	No	PH, GE, SY	LU150
	200S	\$66	MOG-BT18		Universal	Yes	PH, GE, SY	LU200C
	200S	S66	MOG-BT18		Universal	No	PH, GE, SY	LU200
	250S	\$50	MOG-BT28		Universal	Yes	PH, SY	LU250C
	250S	S50	MOG-BT28		Universal	No	PH, GE, SY	LU250
	310S	S67	MOG-BT18		Universal	No	PH, GE, SY	LU310
	400S	S51	MOG-BT37		Universal	Yes	PH, GE, SY	LU400C
	400S	S51	MOG-BT37		Universal	No	PH, GE, SY	LU400
	600S	S106	MOG-T15		Universal	No	PH, GE, SY	LU600
	750S	S111	MOG-ED37		Universal	No	PH, GE, SY	LU750
	1000S	S52	MOG-E25		Universal	No	PH, GE, SY	LU1000
White SON High	35SDW	S99	PG12-T10		Universal	No	PH	WS35P
Pressure Sodium	50SDW	S104	MED-ED17		Universal	Yes	PH	WS50M/C
	50SDW	S104	PG12-T10		Universal	No	PH	WS50P
	100SDW	\$105	MED-ED17		Universal	Yes	PH	WS100M/C
ľ	100SDW	S105	PG12-T10		Universal	No	PH	WS100P

- $1 \quad \mathsf{GE} = \mathsf{General}\,\mathsf{Electric}; \mathsf{SY} = \mathsf{OSRAM}\,\mathsf{SYLVANIA}; \mathsf{PH} = \mathsf{Philips}; \mathsf{VE} = \mathsf{Venture}$
- Tospecify a manufacturer, add manufacturer to item number.
 Example: MC100M/CUGE.

 For use in enclosed rated fixtures only.
- 4 For use in open or enclosed rated fixtures.



Ballast Data – High Pressure Sodium



High pressure sodium ballasts require a magnetic circuit to produce the open-circuit voltage and control the lamp operating current, and a special electronic starting circuit. The electronic starting circuit applies

Minimum

a high voltage pulse across the lamp to initiate the arc. The pulse continues to fire at each half cycle until the arc is established, at which time it shuts off.

	-					Minimum					Open-	
Mana	ANSI	Ballast	Power	Wiring	Regulation	Starting	Primary	Dropout	Starting	Operating	Circuit	Input
Wattage	Code	Туре	Factor	Diagram	LineV=LampW	Ambient	Voltage	Voltage	Current	Current	Current	Wattage
5	S76	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	1.35	0.84	NIL	46
	S76	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.78	0.38	0.68	46
)	S68	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	1.80	1.18	NIL	62
	S68	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.95	0.55	1.00	62
	S68	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	95/225	0.65/0.30	0.61/0.26	1.24/0.44	66
)	S62	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	2.10	1.60	NIL	83
	S62	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	0.90	0.75	1.30	83
	S62	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	95/225	0.90/0.35	0.82/0.36	1.40/0.70	94
	S62	HX	HPF HPF	H4	+/-5%=+/-12%	-40C/-40F	208	155	0.50	0.48	0.90	94
	S62 S62	HX HX	HPF	H4 H4	+/-5%=+/-12% +/-5%=+/-12%	-40C/-40F -40C/-40F	240 347	180 275	0.44 0.25	0.41 0.29	0.80 0.60	94 94
	S62	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.21	0.20	0.40	94
	S62	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.90/0.40	0.90/0.40	0.20/0.09	95
	S62	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.50/0.25	0.86/0.43	0.50/0.25	95
	S62	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.30	0.50	0.30	95
	S62	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	85/165	0.45/0.20	0.90/0.50	0.60/0.30	103
0	S54	R	NPF	H1	+/-5%=+/-12%	-40C/-40F	120	95	3.10	2.10	NIL	117
	S54	R	HPF	H2	+/-5%=+/-12%	-40C/-40F	120	95	1.50	1.05	1.80	117
	S54	HX	HPF	H5	+/-5%=+/-12%	-40C/-40F	120/277	96/222	1.30/0.60	1.14/0.49	2.20/0.95	130
	S54	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	208	166	0.75	0.66	1.30	130
	S54	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	240	192	0.65	0.57	1.10	130
	S54	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	347	275	0.45	0.39	0.70	130
	S54	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.35	0.28	0.60	130
	S54	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.80/0.35	1.20/0.50	0.65/0.25	138
	S54	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	480	360	0.20	0.30	0.15	138
	S54	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.70/0.35	1.22/0.61	0.70/0.35	130
	S54	CWI	HPF HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.40	0.70	0.40	130
	S54 S54	MRB MRB	HPF HPF	H9 H9	+/-10%=+/-3% +/-10%=+/-3%	-40C/-40F -40C/-40F	120/240 277	75/150 195	1.00/0.50	1.20/0.60 0.60	0.44/0.22 0.45	138 138
	S54 S54	MRB	HPF HPF	H9 H9	+/-10%=+/-3%	-40C/-40F	480	185 330	0.21 0.12	0.30	0.45	138
n	S55	R	NPF	H1	+/-10%=+/-3%	-40C/-40F	120	95	4.50	3.20	NIL	171
50	S55	R R	NPF HPF	HI H2	+/-5%=+/-12% +/-5%=+/-12%	-40C/-40F	120	95 95	4.50 2.25	3.20 1.50	2.40	171
	S55	HX	HPF HPF	HZ H5	+/-5%=+/-12%	-40C/-40F	120/277	95 96/222	2.00/0.88	1.66/0.72	3.00/1.30	189
	S55	HX	HPF	rb H4	+/-5%=+/-12%	-40C/-40F	208	166	1.15	0.96	1.65	189
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	240	192	1.00	0.83	1.45	189
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	347	280	0.53	0.57	1.00	189
	S55	HX	HPF	H4	+/-5%=+/-12%	-40C/-40F	480	385	0.50	0.44	0.72	189
	S55	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120/277	90/208	0.96/0.42	1.70/0.70	0.96/0.42	190
	S55	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	480	360	0.24	0.50	0.24	190
	S55	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	0.90/0.45	1.76/0.88	1.00/0.50	190
	S55	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.50	1.01	0.60	190
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	75/150	1.40/0.70	1.70/0.90	1.60/0.80	196
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	160	0.60	0.75	0.70	196
	S55	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	300	0.35	0.40	0.40	196
00	S66	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120	80	1.50	2.20	1.25	245
	S66	CWA	HPF HPF	HB	+/-10%=+/-10%	-40C/-40F	208	130	0.92	1.25	0.75	245
	S66	CWA	HPF	H3 H3	+/-10%=+/-10%	-40C/-40F -40C/-40F	240 277	160 180	0.75	1.10 0.95	0.75	245 245
	S66 S66	CWA CWA	HPF	rb HB	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F	347	230	0.66 0.55	0.75	0.60 0.38	245
	S66	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	480	300	0.41	0.56	0.35	245
	S66	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	55/110	0.80/0.40	2.20/1.10	1.50/0.75	255
	S66	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	220	0.20	0.55	0.38	255
50	S50	CWA	HPF	НВ	+/-10%=+/-10%	-40C/-40F	120	90	1.75	2.50	1.70	300
-	S50	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	208	156	1.00	1.50	1.00	300
	S50	CWA	HPF	НВ	+/-10%=+/-10%	-40C/-40F	240	180	0.85	1.30	0.80	300
	S50	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	277	208	0.75	1.10	0.75	300
	S50	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	347	260	0.75	0.90	0.70	300
	S50	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	480	360	0.44	0.65	0.46	310
	S50	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	1.20/0.60	2.75/1.38	1.50/0.75	300
	S50	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	0.70	1.60	0.87	300
	S50	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	55/110	1.00/0.50	2.70/1.45	1.80/0.90	310
	S50	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	277	120	0.45	1.20	0.75	310
	S50	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	240	0.25	0.70	0.45	310
0	S67	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120	90	1.70	3.40	1.80	365
	S67	CWA	HPF HPF	HB	+/-10%=+/-10%	-40C/-40F	208	156	0.89	1.95	1.00	365
	S67 S67	CWA	HPF HPF	H3 H3	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	240 277	180 208	0.85 0.75	1.70 1.45	0.90 0.80	365 365
	S67	CWA CWA	HPF HPF	HB	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F	480	208 360	0.75	0.90	0.45	365
	567	MRB	HPF	H9	+/-10%=+/-10%	-40C/-40F	120/240	40/80	1.30/0.75	3.30/1.70	1.20/0.60	380
	S67	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	480	175	0.37	0.90	0.30	380
0	S51	CWA	HPF	НВ	+/-10%=+/-10%	-40C/-40F	120	90	3.30	3.90	2.00	465
-	S51	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	208	156	1.80	2.25	1.20	465
	S51	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	240	180	1.60	1.95	0.95	465
	S51	CWA	HPF	НВ	+/-10%=+/-10%	-40C/-40F	277	208	1.40	1.70	0.85	465
	S51	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	347	260	1.10	1.36	0.70	465
	S51	CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	480	360	0.75	1.00	0.60	467
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	120/240	90/180	2.00/1.00	4.20/2.10	2.00/1.00	465
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	208	156	1.15	2.40	1.15	465
	S51	CWI	HPF	H6	+/-10%=+/-10%	-40C/-40F	480	330	0.68	0.93	0.46	446
	S51	MRB	HPF	H9	+/-10%=+/-3%	-40C/-40F	120/240	45/90	2.00/1.00	4.20/2.10	2.20/1.10	490
	S51	MRB	HPF HPF	H9	+/-10%=+/-3%	-40C/-40F	277	105	0.85	1.80	0.95	490
	S51	MRB		H9	+/-10%=+/-3%	-40C/-40F	480	180	0.50	1.10	0.55	490
^		CWA	HPF	HB	+/-10%=+/-10%	-40C/-40F	120	65	5.20	5.50	3.00	670
0	S106	CINIA	HPF	HB	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	208 240	110 130	3.00 2.60	3.30 2.90	1.75 2.60	670 670
0	S106	CWA	LINC	LD	+/-10%=+/-10%		240 277	140	2.60	250 250	1.40	665
0	S106 S106	CWA	HPF HDE	HB HB	±/-1006=±/ 1006	-AOC/ AOE	211	140	4.10	4.DU	1.40	UOD
0	S106 S106 S106	CWA CWA	HPF	HB	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	2/17					
00	S106 S106 S106 S106	CWA CWA CWA	HPF HPF	HB HB	+/-10%=+/-10%	-40C/-40F	347 480	160	1.70	2.00	1.10	665
	S106 S106 S106 S106 S106	CWA CWA CWA	HPF HPF HPF	Н3 Н3 Н3	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	480	160 250	1.70 1.20	2.00 1.43	1.10 0.75	665 665
	S106 S106 S106 S106 S106 S111	CWA CWA CWA CWA	HPF HPF HPF	нз нз нз нз	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F	480 120	160 250 90	1.70 1.20 6.70	2.00 1.43 7.12	1.10 0.75 3.00	665 665 840
	\$106 \$106 \$106 \$106 \$106 \$111 \$111	CWA CWA CWA CWA CWA	HPF HPF HPF HPF	ю ю ю ю ю	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208	160 250 90 156	1.70 1.20 6.70 3.85	200 1.43 7.12 4.10	1.10 0.75 3.00 1.75	665 665 840 840
	\$106 \$106 \$106 \$106 \$106 \$111 \$111	CWA CWA CWA CWA CWA CWA	HPF HPF HPF HPF HPF	нз нз нз нз нз нз	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240	90 156 180	1.70 1.20 6.70 3.85 3.35	200 1.43 7.12 4.10 3.56	1.10 0.75 3.00 1.75 1.60	665 665 840 840 840
	\$106 \$106 \$106 \$106 \$106 \$111 \$111 \$111	CWA CWA CWA CWA CWA CWA CWA	HPF HPF HPF HPF HPF HPF	нз нз нз нз нз нз нз	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277	160 250 90 156 180 208	1.70 1.20 6.70 3.85 3.35 3.00	200 1.43 7.12 4.10 3.56 3.10	1.10 0.75 3.00 1.75 1.60 1.50	665 665 840 840 840 840
50	\$106 \$106 \$106 \$106 \$106 \$110 \$111 \$111	CWA	HPF HPF HPF HPF HPF HPF	нз нз нз нз нз нз нз нз	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347	160 250 90 156 180 208 260	1.70 1.20 6.70 3.85 3.35 3.00 2.30	200 1.43 7.12 4.10 3.56 3.10 2.50	1.10 0.75 3.00 1.75 1.60 1.50 1.20	665 665 840 840 840 840 840
50	\$106 \$106 \$106 \$106 \$106 \$110 \$111 \$111	CWA	HPF HPF HPF HPF HPF HPF HPF	н н н н н н н н н н	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347 480	160 250 90 156 180 208 260 360	1.70 1.20 670 3.85 3.35 3.00 2.30 1.65	200 1.43 7.12 4.10 3.56 3.10 2.50 1.80	1.10 0.75 3.00 1.75 1.60 1.50 1.20 0.90	665 665 840 840 840 840 840
0	\$106 \$106 \$106 \$106 \$106 \$111 \$111 \$111	CWA	HPF HPF HPF HPF HPF HPF HPF HPF	нз нз нз нз нз нз нз нз нз	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347 480	160 250 90 156 180 208 260 360	1.70 1.20 6.70 3.85 3.35 3.00 2.30 1.65	200 1.43 7.12 4.10 3.56 3.10 2.50 1.80	1.10 0.75 3.00 1.75 1.60 1.50 1.20 0.90	665 665 840 840 840 840 840 840
	\$106 \$106 \$106 \$106 \$106 \$111 \$111 \$111	CWA	HPF HPF HPF HPF HPF HPF HPF HPF HPF	#3 #3 #3 #3 #3 #4 #3 #4 #3 #4 #4 #4 #4	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347 480 120 208	160 250 90 156 180 208 260 360 90	1,70 1,20 6,70 3,85 3,35 3,00 2,30 1,65 6,40 3,80	200 143 7.12 4.10 3.56 3.10 2.50 1.80 9.20 5.50	1.10 0.75 3.00 1.75 1.60 1.50 1.20 0.90 3.70 2.7	665 665 840 840 840 840 840 840 1100
0	\$106 \$106 \$106 \$106 \$106 \$111 \$111 \$111	CWA	HPF	H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H3 H	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347 480 120 208 240	160 250 90 156 180 208 260 360 90 156 120	1.70 1.20 6.70 3.85 3.35 3.00 2.30 1.65 6.40 3.80 3.20	200 143 7.12 4.10 3.56 3.10 250 1.80 9.20 5.50 4.75	1.10 0.75 3.00 1.75 1.60 1.50 1.20 0.90 3.70 2.7 2.4	665 665 840 840 840 840 840 840 1100 1100
0	\$106 \$106 \$106 \$106 \$106 \$111 \$111 \$111	CWA	HPF HPF HPF HPF HPF HPF HPF HPF HPF	#3 #3 #3 #3 #3 #4 #3 #4 #3 #4 #4 #4 #4	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	480 120 208 240 277 347 480 120 208	160 250 90 156 180 208 260 360 90	1,70 1,20 6,70 3,85 3,35 3,00 2,30 1,65 6,40 3,80	200 143 7.12 4.10 3.56 3.10 2.50 1.80 9.20 5.50	1.10 0.75 3.00 1.75 1.60 1.50 1.20 0.90 3.70 2.7	665 665 840 840 840 840 840 840 1100





Metal halide lamps are available in two varieties: PROBE START lamps, which rely on a high lamp current crest factor, a high ballast open-circuit voltage and a starting electrode to initiate the arc; and PULSE START lamps, which contain no starting electrode and rely on an ignitor in the ballast to initiate the arc.

HAZARD WARNING - USE OF METAL HALIDE LAMPS

These lamps can cause serious skin burn and eye inflamation from ultraviolet radiation if the outer envelope of the lamp is broken or punctured and the arc-tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available.



California will not allow the use of probe-start metal halide ballasts in 150-500W luminaires with a vertical base-up lamp beginning January 1, 2006. Other states have implemented similar requirements, typically beginning in 2008.

						Minimum					Open-	
Wattage	ANSI Code	Ballast Type	Power Factor	Wiring Diagram	Regulation LineV=LampW	Starting Ambient	Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Circuit Current	Input Wattage
50	M110	R	NPF	Diagram	+/-5%=+/-12%	-30C/-20F	277	190	.068	0.62	NIL	62
•	M110	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.35	0.22	0.55	62
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.60/0.25	0.66/0.28	1.00/0.45	72
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	150	0.51	0.35	0.67	67
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	175	0.47	0.30	0.57	67
	M110	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	220	0.17	0.20	0.55	67
)	M98	R	NPF		+/-5%=+/-12%	-30C/-20F	277	190	1.15	.90	NIL	85
	M98	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.50	0.32	0.80	85
	M98	HX	HPF HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.55/0.25	0.85/0.37	1.90/0.80	88
	M98	HX		M1	+/-5%=+/-12%	-30C/-20F	208	156	0.30	0.49	1.00	88
	M98 M98	HX HX	HPF HPF	M1 M1	+/-5%=+/-12% +/-5%=+/-12%	-30C/-20F -30C/-20F	240 347	180 260	0.25 0.20	0.42 0.30	0.90 0.65	88 88
00	M90	R	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	190	0.70	0.45	1.05	118
JU .	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	1.15/0.50	1.15/0.50	2.60/1.15	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	156	0.66	0.66	1.50	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	180	0.58	0.58	130	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	260	0.40	0.40	1.00	130
	M90	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	480	340	0.30	0.30	0.55	132
	M90	CWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	120/277	60/140	0.80/0.35	1.20/0.50	1.05/0.45	128
50	M102	LLRPSL	HPF	M5	+/-5%=+/-12%	-30C/-20F	277	170	0.70	0.63	1.50	173
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	120/277	90/208	0.95/0.42	1.60/0.70	3.65/1.58	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	208	156	0.55	0.90	2.10	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	240	180	<i>5</i> 0	.80	1.80	185
	M102	HX	HPF	M1	+/-5%=+/-12%	-30C/-20F	347	260	0.65	0.55	1.25	185
	M102	SCWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	120/277	90/210	1.15/0.50	1.75/0.80	1.40/0.60	189
175	M102	SCWA	HPF	M4	+/-10%=+/-10%	-30C/-20F	347	260	0.40	0.70	0.50	189
د	M57orH39 M57orH39	CWA CWA	HPF HPF	M2 M2	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	120 208	60 105	1.30 0.74	1.80 1.10	1.80 1.10	213 213
	M57orH39 M57orH39	CWA	HPF	M2	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	240	120	0.74	0.90	0.85	213
	M57orH39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	140	0.53	0.80	0.80	213
	M57orH39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	180	0.36	0.62	0.62	213
	M57orH39	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	220	0.27	0.45	0.51	213
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	60	1.10	1.80	1.70	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	105	0.58	1.10	1.10	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	120	0.51	0.90	0.85	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	140	0.45	0.80	0.80	208
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	185	0.40	0.70	0.60	220
	M137	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	220	0.25	0.50	0.45	210
	M137 M137	RLB RLB	HPF HPF	M6 M6	+/-10%=+/-3%	-40C/-40F -40C/-40F	120 277	84 195	1.0 0.43	2.00 0.87	1.25 0.54	220 220
	M137	RLB	HPF	M6	+/-10%=+/-3% +/-10%=+/-3%	-40C/-40F	347	243	0.35	0.70	0.43	220
	M137	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	480	336	0.25	0.50	0.31	220
00	M136	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	180	1.00	0.80	1.30	218
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	80	1.15	2.20	1.80	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	140	0.65	1.25	1.25	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	160	0.55	1.10	1.10	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	180	0.49	0.95	0.90	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	215	0.55	0.77	0.75	232
	M136	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.19	0.50	0.43	232
	M136	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	138	0.60	0.90	0.50	244
50	M58orH37	CWA	HPF HPF	M2	+/-10%=+/-10%	-30C/-20F	120 208	65	1.35 0.72	2.60 1.50	2.04	294 294
	M58orH37 M58orH37	CWA CWA	HPF	M2 M2	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	240	105 125	0.72	130	1.48 1.22	294 294
	M58orH37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240 277	150	0.44	1.12	1.12	294
	M58orH37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	190	0.35	0.85	1.05	294
	M58orH37	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	260	0.25	0.65	0.65	294
					+/-10%=+/-10%	-30C/-20F	120/240		0.90/0.45	2.66/1.33	2.00/1.00	295
	M58orH37	CWI	HPF	MB	T/-1070—T/-1070		120/2-10	60/120	0.50/0.45			
	M58orH37	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	208	105	0.50	1.54	1.20	295
	M58orH37 M138	CWI SCWA	HPF HPF	M3 M7	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F	208 120	105 60	0.50 1.96	2.50	1.20 1.85	288
	M58orH37 M138 M138	CWI SCWA SCWA	HPF HPF HPF	M3 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	208 120 208	105 60 115	0.50 1.96 1.13	2.50 1.45	1.20 1.85 1.07	288 288
	M58orH37 M138 M138 M138	CWI SCWA SCWA SCWA	HPF HPF HPF	M3 M7 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F	208 120 208 240	105 60 115 133	0.50 1.96 1.13 0.98	2.50 1.45 1.25	1.20 1.85 1.07 0.92	288 288 288
	M58orH37 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA	HPF HPF HPF HPF	M3 M7 M7 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277	105 60 115 133 153	0.50 1.96 1.13 0.98 0.85	250 1.45 1.25 1.10	1.20 1.85 1.07 0.92 0.80	288 288 288 288
	M58orH37 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA	HPF HPF HPF HPF HPF	MB M7 M7 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347	105 60 115 133 153 180	0.50 1.96 1.13 0.98 0.85 0.45	2.50 1.45 1.25 1.10 0.95	1.20 1.85 1.07 0.92 0.80 0.75	288 288 288 288 298
	M58orH37 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA	HPF HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480	105 60 115 133 153 180 220	0.50 1.96 1.13 0.98 0.85 0.45 0.21	250 1.45 1.25 1.10 0.95 0.57	1.20 1.85 1.07 0.92 0.80 0.75 0.48	288 288 288 288 298 298
	M58orH37 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA RLB	HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7 M7 M8	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-3%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120	105 60 115 133 153 180 220 85	0.50 1.96 1.13 0.98 0.85 0.45 0.21	250 1.45 1.25 1.10 0.95 0.57 2.80	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31	288 288 288 288 298 298
	M58orH37 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA	HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480	105 60 115 133 153 180 220	0.50 1.96 1.13 0.98 0.85 0.45 0.21	250 1.45 1.25 1.10 0.95 0.57	1.20 1.85 1.07 0.92 0.80 0.75 0.48	288 288 288 288 298 298
	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA RLB RLB	HPF HPF HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7 M7 M6	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-3%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240	105 60 115 133 153 180 220 85	0.50 1.96 1.13 0.98 0.85 0.45 0.21 1.00	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15	288 288 288 288 298 298 298
	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB	HPF HPF HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7 M6 M6	+/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277	105 60 115 133 153 180 220 85 165 195	0.50 1.96 1.13 0.98 0.85 0.45 0.21 1.00 0.50 0.43	2.50 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15	288 288 288 288 298 298 298 298 298
0	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA RLB RLB RLB	HPF HPF HPF HPF HPF HPF HPF HPF HPF	M3 M7 M7 M7 M7 M7 M6 M6 M6	+/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-1096 +/-1096=+/-396 +/-1096=+/-396 +/-1096=+/-396 +/-1096=+/-396	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277 347	105 60 115 133 153 180 220 85 165 195 243	050 1.96 1.13 0.98 0.85 0.45 0.21 1.00 0.50 0.43	250 1.45 1.25 1.10 0.95 0.57 280 1.38 1.20 0.95	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80	288 288 288 288 298 298 298 298 298
0	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB RLB RLB LLRPSL LLSCWA	HPF	MS M7 M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M6 M6	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480	105 60 1115 133 153 180 220 85 165 195 243 336	050 136 136 133 098 085 045 021 100 050 043 035 025	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58	288 288 288 288 298 298 298 298 298 298
D	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB RLB RLB LLRPSL LLSCWA	HPF	MS M7 M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M6 M7 M7 M7 M7 M7 M7 M7 M7 M7	+/-10%==+/-10% +/-10%==+/-10% +/-10%==+/-10% +/-10%==+/-10% +/-10%==+/-10% +/-10%==+/-10% +/-10%=+/-10% +/-10%=-+/-3% +/-10%=-+/-3% +/-10%=-+/-3% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-(-+/-10% (+/-)10%=(-+/-)10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208	105 60 1115 133 153 180 220 85 165 195 243 336 180 67	050 196 113 098 085 045 021 100 050 043 035 025 145 204	250 1.45 1.25 1.10 0.95 0.57 280 1.38 1.20 0.95 0.70	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95	288 288 288 288 298 298 298 298 298 298
20	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB RLB RLB LLRPSL LLSCWA LLSCWA	HPF	MS M7 M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=-(+/-10% (+/-10%=-(+/-10% (+/-10%=-(+/-10%)	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208	105 60 1115 133 133 153 180 220 85 165 195 243 2336 180 67 114 135	050 196 1.13 098 085 045 021 100 050 043 035 025 145 204 1.16	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70 1.30 2.96 1.48	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.90	288 288 288 298 298 298 298 298 298 298
20	MS8orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB LLRPSL LLSCWA LLSCWA LLSCWA	HF	MS M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10% +/-10%=-(-/-10%	-40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F -40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 347 207 208 240 277	105 60 115 133 153 180 220 85 165 243 336 7 114 135 156	050 136 113 098 085 045 021 100 050 043 035 025 145 204 1.16 1.01	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70 1.30 2.96 1.69 1.48 1.27	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.97	288 288 288 288 298 298 298 298 298 298
20	M58orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB LLRPSL LLSCWA LLSCWA LLSCWA	HPF	MS M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-3% +/-10%=+/-10% +/-10%=-/-10% +/-10%=(+/-10% +/-10%=(+/-10% +/-10%=(+/-10% +/-10%=+/-10% +/-10%=+/-10% +/-10%=+/-10%	-40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208 240 277	105 60 115 133 153 180 220 85 165 195 243 336 180 67 114 135 156 90	050 196 113 098 085 045 021 100 050 043 035 025 145 204 1.16 1.01 088 3.30	250 1.45 1.25 1.10 0.95 0.57 2.60 1.38 1.20 0.95 0.70 1.30 2.96 1.69 1.48 1.27 3.30	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.97 0.84 1.60	288 288 288 298 298 298 298 298 298 298
0	MS8orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA SCWA SCWA RLB	HF H	MS M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M7	+/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-10% +/-10%=-+/-3% +/-10%=-+/-3% +/-10%=-+/-3% +/-10%=-+/-10% +/-5%=-+/-10% +/-10%=-(+/-)10% (+/-)10%=-(+/-)10% (+/-)10%=-(+/-)10% (+/-)10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(+/-)10% +/-10%=-(-)10% +/-10%=-(-)10% +/-10%=-(-)10%	-40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208 240 277 120 208	105 60 1115 133 133 153 180 220 85 165 195 243 336 67 114 135 156 90 155	050 196 1.13 098 085 045 021 100 050 043 035 025 145 204 1.16 1.01 088 3.30 1.90	250 1.45 1.25 1.10 0.95 0.57 280 1.38 1.20 0.95 0.70 1.30 2.96 1.48 1.27 3.30 1.90	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.97 0.84 1.60 1.00	288 288 288 288 298 298 298 298 298 298
0	MS8orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB LLRPSL LLSCWA LLSCWA LLSCWA SCWA SCWA	HF	MS M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10%	-40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208 240 277 120 208 240 277 120 208	105 60 115 133 153 180 220 85 165 195 243 336 7114 135 156 90 155 180	050 156 113 098 085 045 021 100 050 043 035 025 145 204 1.16 101 088 330 1500	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70 1.30 2.96 1.69 1.48 1.27 3.30 1.90 1.70	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.94 1.60 1.00 0.80	288 288 288 288 296 296 296 296 296 296 296 296 296 296
σ	MS8orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB RLB RLS RLB RLS RLS RLB RLS RLB RLS RLS RLS RLS RLS RLS RLS RLS RLS RLS	HPF	MS M7 M7 M7 M7 M7 M6 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-10% +/-10%=-/-10% -/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10%	-40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 120 277 347 480 277 120 208 240 277 120 208 240 277	105 60 1115 133 153 180 220 85 165 195 243 336 180 67 114 135 156 90 155 180 208	050 196 113 098 085 045 021 100 050 043 035 025 145 204 116 101 088 330 190 140	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70 1.30 2.96 1.69 1.48 1.27 3.30 1.90 1.70 1.40	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.97 0.84 1.60 1.00 0.880 0.70	288 288 288 288 298 298 298 298 298 298
0	MS8orH37 M138 M138 M138 M138 M138 M138 M138 M138	CWI SCWA SCWA SCWA SCWA SCWA RLB RLB RLB RLB LLRPSL LLSCWA LLSCWA LLSCWA SCWA SCWA	HF	MS M7 M7 M7 M7 M7 M7 M6 M6 M6 M6 M7	+/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=+/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-3% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10% +/-10%=-/-10%	-40C/-40F	208 120 208 240 277 347 480 120 240 277 347 480 277 120 208 240 277 120 208 240 277 120 208	105 60 115 133 153 180 220 85 165 195 243 336 7114 135 156 90 155 180	050 156 113 098 085 045 021 100 050 043 035 025 145 204 1.16 101 088 330 1500	250 1.45 1.25 1.10 0.95 0.57 2.80 1.38 1.20 0.95 0.70 1.30 2.96 1.69 1.48 1.27 3.30 1.90 1.70	1.20 1.85 1.07 0.92 0.80 0.75 0.48 2.31 1.15 1.00 0.80 0.58 1.90 1.95 1.09 0.94 1.60 1.00 0.80	288 288 288 288 296 296 296 296 296 296 296 296 296 296

Ballast Data - Metal Halide (350W-1500W)

					Open	Minimum						
	ANSI	Ballast	Power	Wiring	Regulation	Starting	Primary	Dropout	Starting	Operating	Circuit	Input
Vattage	Code	Туре	Factor	Diagram	LineV=LampW	Ambient	Voltage	Voltage	Current	Current	Current	Wattage
50	M131	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	200	2.00	1.50	2.10	375
	M131 M131	SCWA SCWA	HPF HPF	M7 M7	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	120 208	60 105	3.60 2.10	3.70 2.10	1.80 1.10	400 400
	M131	SCWA	HPE	M7	+/-10%=+/-10%	-40C/-40F	240	120	1.80	1.80	0.90	400
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	140	1.60	1.60	0.80	400
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	175	1.00	1.25	1.05	400
	M131	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	240	0.75	0.90	0.65	400
00	M59orH33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	60	250	4.00	3.20	452
	M59orH33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	105	1.40	230	1.80	458
	M59orH33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	120	1.20	2.00	1.60	458
	M59orH33	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	140	1.00	1.75	1.50	458
	M59orH33	CWA	HPF HPF	M2	+/-10%=+/-10%	-30C/-20F	347	175	1.20	1.40	1.05	460
	M59orH33 M59orH33	CWA CWI	HPF HPF	M2 MB	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	480 120	240 60	0.60 1.30	1.00 4.20	0.90 4.10	465 465
	M59orH33	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	208	104	0.75	2.45	2.40	465
	M59orH33	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	240	120	0.65	2.10	2.05	465
	M59orH33	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	277	138	0.60	1.70	1.80	462
	M59orH33	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	347	174	0.50	1.35	1.45	462
	M59orH33	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	480	200	0.60	1.00	0.90	458
	M135	LLRPSL	HPF	M5	+/-5%=+/-12%	-40C/-40F	277	200	2.10	1.70	2.10	425
	M155/M135	LLSCWA	HPF	M7	(+/-)10%=(+/-)10%	-40C/-40F	120	60	3.16	3.80	2.10	434
	M155/M135	LLSCWA	HPF	M7	(+/-)10% = (+/-)10%	-40C/-40F	208	104	1.78	2.10	1.20	434
	M155/M135 M155/M135	LLSCWA LLSCWA	HPF HPF	M7 M7	(+/-)10% = (+/-)10% (+/-)10% = (+/-)10%	-40C/-40F -40C/-40F	240 277	120 138	1.58 1.38	1.90 1.65	1.07 0.92	434 434
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	90	3.30	4.00	230	454 456
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	155	2.00	230	1.90	456
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	180	1.75	2.10	1.60	456
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	208	1.40	1.80	0.90	456
	M135	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	175	1.20	1.40	0.95	456
	M135	SCWA SCWI	HPF HPF	M7 M4	+/-10%=+/-10%	-40C/-40F -40C/-40F	480 120	240	0.85	1.00	0.63 3.80	456
	M135 M135	SCWI	HPF HPF	M4 M4	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F -40C/-40F	120 208	60 104	1.30 0.75	4.20 2.40	3.80 2.20	455 455
	M135	SCWI	HPF	M4	+/-10%=+/-10%	-40C/-40F	240	120	0.65	2.10	1.90	455 455
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	120	65	1.85	4.00	2.40	465
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	208	113	1.10	2.30	1.40	465
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	240	130	0.95	2.00	1.20	465
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	277	150	0.70	1.70	1.25	465
	M135	RLB	HPF	M6	+/-10%=+/-3%	-40C/-40F	347	185	0.55	1.40	0.90	465
50	M135 M144	RLB LLRPSL	HPF HPF	M6 M5	+/-10%=+/-3% +/-5%=+/-12%	-40C/-40F -40C/-40F	480 277	250 200	0.40 2.25	1.00	0.70 2.35	465 480
iU	M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	120	200 75	2.70	4.44	268	508
	M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	208	130	1.56	2.56	1.67	508
	M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	150	1.35	222	1.44	508
	M144	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	170	1.17	1.92	1.25	508
	M144	SCWA	HPF HPF	M7	+/-10%=+/-10%	-40C/-40F	347	220	1.45	1.60	0.30	505
	M144 M144	SCWA RLB	HPF HPF	M7 M6	+/-10%=+/-10% +/-10%=+/-3%	-40C/-40F -40C/-40F	480 277	270 110	1.00 0.70	1.10 2.00	025 125	514 530
0	M149	SCWA	HPF	M7		-40C/-40F	120	80	5.80	7.00	6.00	825
U	M149	SCWA	HPF	M7	+/-10%=+/-10% +/-10%=+/-10%	-40C/-40F	208	150	3.30	4.00	3.50	825
	M149	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	240	160	2.90	3.50	3.10	825
	M149	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	277	185	2.50	3.00	2.70	825
	M149	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	347	230	2.00	2.45	2.20	825
	M149	SCWA	HPF	M7	+/-10%=+/-10%	-40C/-40F	480	320	1.50	2.00	1.50	825
000	M47orH36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	85	5.70	920	6.00	1080
	M47orH36	CWA CWA	HPF HPF	M2	+/-10%=+/-10%	-30C/-20F	208	145	3.40	5.30	3.50	1080 1080
	M47orH36 M47orH36	CWA	HPF HPF	M2 M2	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	240 277	170 195	2.90 2.50	4.60 4.00	3.00 2.60	1080
	M47orH36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	245	1.30	3.20	250	1080
	M47orH36	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	335	1.50	230	1.60	1080
	M47orH36	CWI	HPF	M3	+/-10%=+/-10%	-30C/-20F	208	125	1.65	5.30	3.25	1080
	M47orH36	CWI	HPF	MB	+/-10%=+/-10%	-30C/-20F	240	145	1.30	4.80	3.20	1080
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	120	84	7.80	9.20	4.50	1080
	M141	SCWA SCWA	HPF HPF	M7 M7	+/-10%=+/-10%	-30C/-20F	208	146 168	4.00 3.70	530	2.70	1080 1080
	M141 M141	SCWA SCWA	HPF HPF	M7 M7	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F -30C/-20F	240 277	168 194	3.70 3.20	4.60 4.00	230 220	1080 1080
	M141 M141	SCWA	HPF HPF	M7	+/-10%=+/-10%	-30C/-20F -30C/-20F	2// 347	230	3.20 2.25	4.00 3.20	1.75	1080
	M141	SCWA	HPF	M7	+/-10%=+/-10%	-30C/-20F	480	320	1.65	235	1.30	1080
00	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	80	9.00	14.00	6,60	1610
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	140	520	8.00	3.85	1610
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	160	4.50	7.00	3.45	1610
	M48	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	185	3.85	6.00	3.05	1610
	M48	CWA CWA	HPF HPF	M2 M2	+/-10%=+/-10% +/-10%=+/-10%	-30C/-20F	347	230	4.60	4.80 3.50	1.70 1.65	1610 1610
	M48					-30C/-20F	480	320	225			

Important Changes in the 2005 National Electrical Code for Metal Halide Systems

The 2005 NEC requires that luminaires with a metal halide lamp be provided with either a containment barrier that encloses the lamp or with a means that will only accept an ANSI Type O metal halide lamp.

Metal halide lamps are rated based on their enclosure requirements:

ANSI Type E: enclosed-rated for luminaires that have a glass lens or plastic lens rated for arc tube containment.

ANSI Type S: standard lamps rated for enclosed luminaires or open luminaires if certain lamp operating conditions are followed based on the lamp manufacturer's recommendations.

ANSI Type O: open-rated for use in open or enclosed luminaires. These lamps have a special base with a narrow contact point.

Enclosed luminaires:

Lithonia metal halide enclosed luminaires are provided with a standard socket, which will accept Type E, Type S or Type O lamps.

Open luminaires:

Lithonia metal halide open luminaires are available with a protected socket, which will accept only Type O lamps.

For more information, see page 385 of the HID section, or go to:

http://www.lithonia.com/protectedsocket/



www.AcuityBrandsLighting.com



Mercury vapor lamps from 175 watts through 1000 watts will operate satisfactorily on equivalent-wattage probe-start metal halide ballasts

For electrical characteristics of these wattages, see metal halide ballast information.

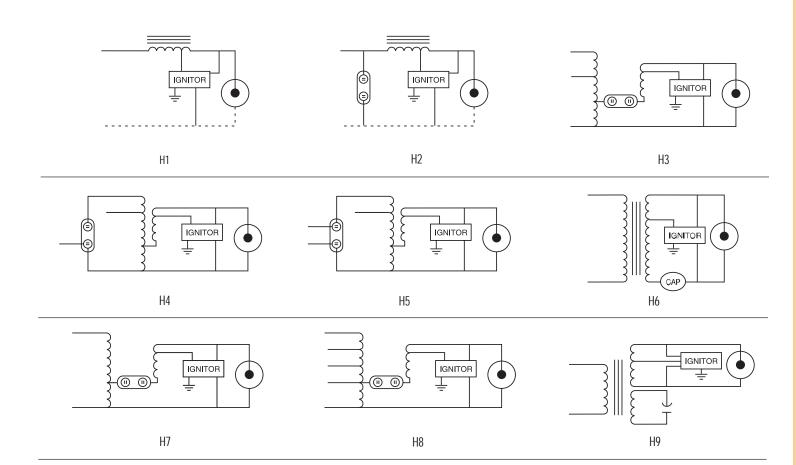
HAZARD WARNING - USE OF MERCURY VAPOR LAMPS

These lamps can cause serious skin burns and eye inflammation from ultraviolet radiation if the outer envelope of the lamp is broken or punctured and the arc-tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available.



The Energy Policy Act of 2005 will ban the use of mercury vapor ballasts in the US, manufactured or imported after January 1, 2008.

Wattage	ANSI Code	Open Ballast Type	Power Factor	Wiring Diagram	Regulation LineV=LampW	Starting Ambient	Minimum Primary Voltage	Dropout Voltage	Starting Current	Operating Current	Circuit Current	Input Wattage
50	H46 H46	HX CWA	NPF HPF	M1 less cap M2	+/-5%=+/-12% +/-10%=+/-10%	-30C/-20F -30C/-20F	120 120/277	80 60/138	2.10 0.60/0.25	1.50 0.70/0.30	0.25 0.25/0.11	74 74
75	H43	НХ	NPF	M1 less cap	+/-5%=+/-12%	-30C/-20F	120	102	2.60	1.60	0.30	96
	H43	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120/277	64/145	0.80/0.35	0.90/0.40	0.50/0.22	93
100	H38 or H44	HX	NPF	M1 less cap	+/-5%=+/-12%	-30C/-20F	120	90	3.60	2.10	0.50	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	120	65	0.68	1.05	0.52	123
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	208	110	0.44	0.60	0.36	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	240	130	0.39	0.52	0.31	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	277	150	0.34	0.45	0.28	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	347	180	0.38	0.38	0.22	125
	H38 or H44	CWA	HPF	M2	+/-10%=+/-10%	-30C/-20F	480	230	0.26	0.26	0.16	120

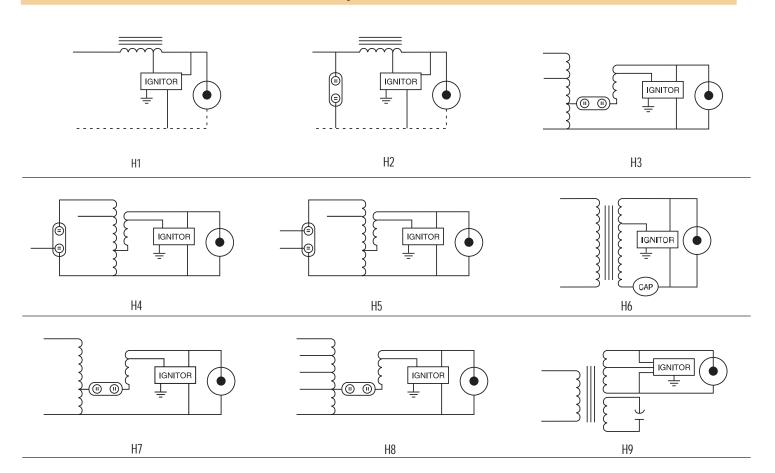


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Ballast Circuit Data – High Pressure Sodium

Ballast Type	st Type Available Input Voltage Maximum Input Current		Power Factor	Regulation (+/- Input Voltage = +/- Lamp Wattage)	Input Watts Loss	Crest Factor		
	High Pressure Sodium							
Reactor								
Taxana 19	50W, 70W, 100W, and 150W; 120V only	Higher than operating	50% NPF Standard 90% + HPF Optional	+/- 5% = +/- 12%	LOW	1.4 to 1.5		
High-Reactance Autotransformer								
	50W; 120V or 277V 70W, 100W, and 150W; 120V, 277V, or 347V	Higher than operating	90% + HPF	+/- 5% = +/- 12%	MEDIUM	1.5		
Constant Wattage Autotransformer (CWA)							
STARTER	70W, 100W and 150W; 120V or 277V 200W, 250W, 310W, 400W 600W, 750W, and 1000W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8		
Constant Wattage Isolated (CWI)								
•	70W, 100W, 150W, 250W, and 400W; 120V, 208V, or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8		
Magnetic Regulator (MRB)								
	70W; 120V or 240V 100W, 150W, 250W, and 400W; 120V, 240V, 277V or 480V 200W and 310W; 120V, 240V, or 480V	Operating	90% + HPF	+/- 10% = +/- 3%	HIGH	1.7 to 1.8		

High Pressure Sodium





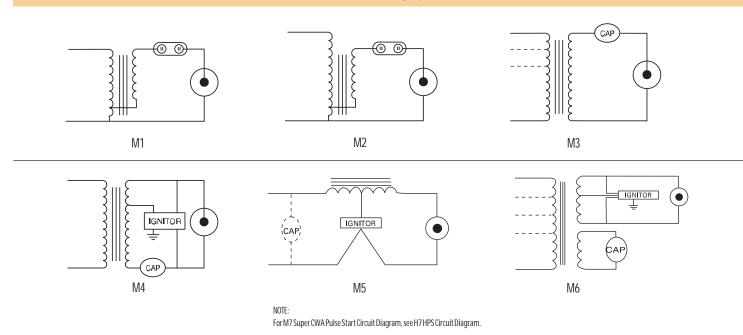
Ballast Circuit Data – Metal Halide & Mercuy Vapor

Ballast Type	Available Input Voltage	Maximum Input Current	Power Factor	Regulation (+/- Input Voltage = +/- Lamp Wattage)	Input Watts Loss	Crest Factor
		Metal Halide				
Linear Reactor (Pulse Start)						
	50W, 70W, 100W, 150W, 200W, 320W, 350W, 400W, and 450W; 277V only	Higher than operating	90% + HPF	+/- 5% = +/- 12%	LOW	1.4 to 1.5
High-Reactance Autotransformer (Pu	ılse Start)					
	50W; 120V or 277V 70W, 100W, and 150W; 120V, 277V, or 347V	Higher than operating	90% + HPF	+/- 5% = +/- 12%	MEDIUM	1.5
Constant Wattage Autotransformer ((CWA)					
	175W, 250W, 400W, and 1000W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Super Constant Wattage Autotransfo						
STARTER	100W; 120V or 277V 150W; 120V, 277V or 347V 175W; 120V, or 347V 200W, 250W, 350W, 350W, 400W and 450W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.6
Constant Wattage Isolated (CWI)						
	250W; 120V, 208V, or 240V 400W; 120V, 208V, 240V, 277V or 347V 1000W; 208V or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.7 to 1.8
Super Constant Wattage Isolated (SC	CWI) (Pulse Start)					
	400W; 120V, 208V, or 240V	Operating	90% + HPF	+/- 10% = +/- 10%	MEDIUM to HIGH	1.6
Regulated Lag (RLB) (Pulse Start)						
	175W; 120V, 277V, 347V, or 480V 200W and 450W; 277V only 250W and 400W; 120V, 240V, 277V, 347V, or 480V	Operating	90% + HPF	+/-10% = +/-3%	HIGH	1.6
		Mercury Vapor				
High-Reactance Autotransformer						
	50W, 75W, 100W, 175W, 250W; 120V only	Higher than operating	50% NPF Standard	+/- 5% = +/- 12%	MEDIUM	1.5
Constant Wattage Autotransformer (
	50W, 75W and 1000W; 120V, or 277V 100W, 175W, 250W, and 400W; 120V, 277V, or 347V	Operating	90% + HPF	+/- 10% = +/- 5%	MEDIUM to HIGH	1.7 to 1.8

NOTE: Ungrounded power distribution systems may carry transient line voltages under fault conditions. Because high transients can cause premature ballst and lamp failures, it is not recommended that luminaires be operated on any 480V or other ungrounded systems.

The ballast serves four basic functions: 1) Transforms the line voltage to the required lamp operating voltage; 2) Limits the lamp operating current; 3) Provides the open-circuit starting voltage characteristics required to start the lamp; and 4) Regulates the lamp wattage for a variation in power supply input voltage.

Metal Halide/Mercury Vapor



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Ballast Testing

1. H.I.D. Open-Circuit and Short-Circuit Test Limits

	Lamp)		Secondary
	Wattage	ANSI Number	RMS Voltage	short circuit current Amps
Mercury ballasts	50 75 100 175 250 400 2–400 (ILO) 2–400 (Series) 700	H46 H43 H38 H39 H37 H33 2–H33 2–H33 H35	225–255 225–255 225–255 225–255 225–255 225–255 225–255 225–255 475–525 405–455	0.85-1.15 0.95-1.70 1.10-2.00 2.00-3.60 3.00-3.80 4.40-7.90 4.40-7.90 4.20-5.40 3.90-5.85
	70	H36	405–455 210–250	5.70–9.00 0.85–1.30
alide sts	100 150 175 250 250	M90 M81 M57 M80	250–300 220–260 285–320 230–270	1.15–1.76 1.75–2.60 1.50–1.90 2.90–4.30
Metal halide ballasts	250 400 2–400 (ILO) 2–400 (Series) 1000 1500	M58 M59 2-M59 2-M59 M47 M48	285–320 285–320 285–320 600–665 400–445 400–445	2.20–2.85 3.50–4.50 3.50–4.50 3.30–4.30 4.80–6.15 7.40–9.60
	35 50	\$76 \$68	110–130 110–130	0.85–1.45 1.50–2.30
ıre sodium sts*	70 100 150 150	\$62 \$54 \$55 \$56	110–130 110–130 110–130 200–250	1.60–2.90 2.45–3.80 3.50–5.40 2.00–3.00
High pressure sodium ballasts*	200 250 310 400 1000	\$66 \$50 \$67 \$51 \$52	200–230 175–225 155–190 175–225 420–480	2.50-3.70 2.50-3.70 3.00-5.30 3.80-5.70 5.00-7.60 5.50-8.10
Low pressure sodium ballasts	18 35 55 90 135 180	L69 L70 L71 L72 L73 L74	300–325 455–505 455–505 455–525 645–715 645–715	0.30-0.40 0.52-0.78 0.52-0.78 0.80-1.20 0.80-1.20 0.80-1.20

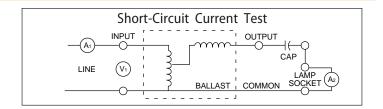
^{*} CAUTION: Always disconnect the ignitor before measuring the output voltage of high pressure sodium ballasts. High voltage starting pulses can damage commonly used multi-meters.

2. H.I.D. Short-Circuit Lamp Current

To ensure the ballast is delivering the proper current under lamp starting conditions, a measurement may be taken by connecting an ammeter between the lamp socket center pin and the socket shell with rated input voltage applied to the ballast. If available, a socket adapter may be used.

- 1. Energize ballast with proper rated input voltage.
- 2. Measure current with ammeter at A₁ and A₂ as shown below.
- 3. Readings must be within test limits shown above.

When using a clamp-on ammeter for this measurement, be certain the meter is not near the magnetic field of the ballast or any steel member which might distort the magnetic field.



When short-circuit lamp current test results in high, low or no reading:

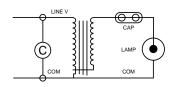
Further checks should be made to determine whether cause is attributable to improper supply voltage, shorted or open capacitor or inoperative ballast. Checks may be made as follows:

- Supply Voltage Check
 - Measure line voltage. If ballast is multi-voltage unit make certain input voltage connection is made to proper input voltage terminal or lead.
- Capacitor Check
 - Verify capacitor rating is as required and shown on ballast label.
- Ballast Check
 - Perform open-circuit voltage test to ensure operation within the RMS range shown in the table to the left.

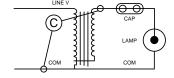
3. H.I.D. Ballast Continuity Testing

Continuity of Primary Coil

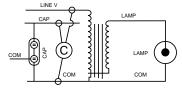
- Disconnect ballast from power supply and discharge the capacitor.
- Check for continuity of ballast primary coil between input leads.
- Continuity of Secondary Coil
- Disconnect ballast from power supply and discharge the capacitor.
- 2. Check for continuity of ballast secondary coil between lamp and common leads.



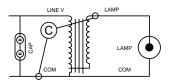
Between Common and Line Leads



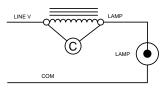
Between Common and Capacitor Leads.



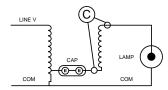
Between Line and Lamp Leads



Between Common and Lamp Leads.



Between Common and Capacitor Leads.



etween Common and Lamp Leads

 $NOTE: Information compiled \ by \ Advance \ Transformer \ Co.\ and \ reprinted \ with \ permission.$





TECHNICAL AND DESIGN CONSIDERATIONS

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Lighting Terminology

Definitions

Luminaire – A complete lighting unit consisting of lamp or lamps, the parts designed to distribute the light, the fixture housing and any necessary starting components (ballasts).

Photometrics – A photometric test measures the quantity and direction of light emitted from a luminaire. Photometrics refers to the measured values.

Luminous Intensity – Measured in a photometric test to describe the intensity of light in a particular direction. Measured in candelas.

Luminous Flux – The flow of light from a lamp or luminaire. Measured in *lumens*.

Illuminance – The flow of light onto a surface. Expressed in footcandles (English units) or lux (metric units).

Luminous Efficacy – Quantifies lumens produced per unit of power (watts) consumed. Can be used to evaluate the energy efficiency of a lamp or a luminaire. Measured in *lumens per watt*. Luminaire Efficacy Rating (LER) – A metric used to describe the energy efficiency of lighting products. This value, listed on many product specification sheets, consists of a prefix indicating the product category and a number indicating lumens per watt or LER.

Luminous Efficiency – Total lumen output of a luminaire expressed as a percent of rated bare-lamp lumens (as determined by photometric tests). Luminous efficiency quantifies only the amount of light emitted from a luminaire. It does not describe the quality of the light from the luminaire.

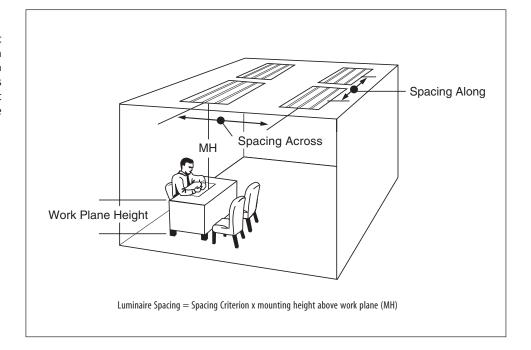
Work Plane – A horizontal surface where visual tasks are performed. The work plane is typically ground level for outdoor applications and 2.5 feetfor office applications (corresponding with desk height). In some cases, a work plane may be vertical, such as a library stack or warehouse rack.

Coefficient of Utilization (CU) – The percent of rated bare-lamp lumens that exit the fixture and reach the work plane. The CU accounts for light directly from the luminaire as well as light reflected off the room surfaces. The CU value is used in lighting calculations to estimate light levels or the quantity of luminaires needed. The CU is determined from a photometric test and is typically published on product catalog sheets in a tabular form.

Spacing to Mounting Height Ratio (S/MH)—
A value, calculated from photometric data, that is used to estimate how far apart luminaires mounted in a row can be spaced to maintain uniform illuminance on the work plane. The spacing criterion value is multiplied by the luminaire mounting height above the work plane to estimate acceptable spacing. For luminaires mounted in a rectangular array, the spacing criterion provides a better indicator of the spacing required to achieve uniform illuminance.

Spacing Criterion (SC)

A value, calculated from photometric data, that is used to estimate how far apart luminaires can be spaced to maintain uniform illuminance on the work plane. The spacing criterion value is multiplied by the luminaire mounting height above the work plane to estimate an acceptable center-to-center luminaire spacing.





Nighttime Friendly Lighting

Luminaire Classifications for Controlling Glare

The Illuminating Engineering Society of North America (IESNA, or IES) provides classifications for luminaires according to their glare control and high-angle brightness. These classifications include full cutoff, cutoff, semi-cutoff and noncutoff.

Acuity Brands Lighting uses Nighttime Friendly to identify products that reduce negative impacts on the nighttime environment. Products designated with the Nighttime Friendly logo have no uplight, meet the IESNA definition for full cutoff optics and reduce high-angle brightness. These measures of luminaire performance

are consistent with sustainability standards for light pollution reduction.

For applications where there is a concern with light trespass on neighboring properties, consider products that limit light behind the pole such as the Type 4 sharp cutoff optical system or house side shielding.

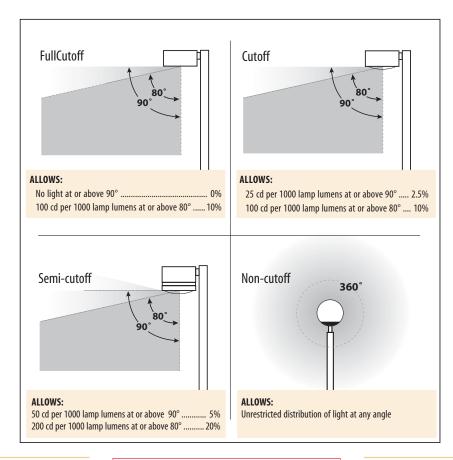


Nighttime Friendly designates products with superior optical control that are consistent with the goals of USGBC LEED® and meet Green Globes™ product criteria for light pollution reduction. These products are full cutoff and no more than 10% of the lumens from the luminaire are emitted above 80 degrees from nadir.

Classification	Definition	Benefits	Limitations
Full Cutoff	Zero intensity at or above horizontal (90° above nadir) and limited to a value not exceeding 10% of lamp lumens at or above 80°.	Limits spill light onto adjacent property, reduces glare. No light is emitted directly from the luminaire into the sky.	May reduce pole spacing to maintain uniformity and increase pole and luminaire quantities.
Cutoff	Intensity at or above 90° (horizontal) no more than 2.5% of lamp lumens, and no more than 10% of lamp lumens at or above 80°.	Small increase in high-angle light allows increased pole spacing.	May allow some uplight from luminaire. Typically a small overall impact on sky glow.
Semi-cutoff	Intensity at or above 90° (horizontal) no more than 5% of lamp lumens and no more than 20% at or above 80°.	High-angle light accents taller vertical surfaces such as buildings. Most light is still directed downward.	Little control of light at property line. Potential for increased glare when using high wattage luminaires. Typically directs more light into the sky than cutoff.
Non-cutoff	No limitations on light distribution at any angle.	Uniform luminous surfaces such as internally illuminated signs or globes. Wattage should be limited. Suitable for sports lighting, facade, landscape or other applications where luminaires are tilted due to limitations in pole or fixture locations.	Location and aiming are critical. Most likely of all categories to produce offensive brightness and sky glow.

NOTE:

 $The Illuminating \ Engineering \ Society of North America plans to adopt a new luminaire classification system in 2006 that will supercede the current cutoff classifications.$



LEED with Lighting – A LEED Overview

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System® is a voluntary, consensus-based national standard developed by the US Green Building Council (USGBC). LEED standards define the criteria for developing high-performance, environmentally sustainable buildings. For full details, go to www.AcuityBrandsLighting.com/sustainability.

Category	Prerequisite or Credit	NC v2.2 New Construction	EB v2 Existing Buildings	Cl v2 Commercial Interiors
Site Selection	Light pollution reduction (½ to 1 credit)	Interior Lighting The angle of max candela from each interior luminaire shall not exit out through the windows OR All non-emergency interior lighting shall be automatically controlled to turn off during non-business hours. Exterior Lighting Do not exceed 80% of the LPDs for exterior areas and 50% for building facades and landscape features as defined in ASHRAE/IESNA Standards 90.1-2004 without amendments. Limits have been set (by IESNA Lighting Zone) on illuminance outside of site boundaries, fall off of illuminance outside of site boundaries, fall off of illuminance outside of site boundaries, and total uplight.	Have no luminaire 50 watts or greater with uplight or show that less than 5% of light emitted by all exterior luminaires reaches the night sky on an annual basis. The direction of max intensity for all interior luminaires must fall within the building (not striking a window). The direction of max intensity for all exterior luminaires must fall within the property.	Meet or be lower than light levels in IESNA RP-33-99. Shield all exterior luminaires with initial lamp lumens over 1000 lumens. All exterior luminaires with initial lamp lumens over 3,5000 must be IESNA full cutoff. The direction of max intensity for all interior luminaires must fall within the building (not striking a window). All exterior lighting within 2.5 mounting heights of the property boundary cannot emit light off of the property.
	Fundamental commissioning (prerequisite)	Lighting controls (including for daylighting) must be commissioned.	Lighting controls (including for daylighting) must be commissioned.	Lighting controls (including for daylighting) must be commissioned.
	Minimum energy performance (prerequisite)	Meet ASHRAE/IESNA 90.1 - 2004 or local energy code (whichever is more stringent)	Achieve an EPA energy performance rating of at least 60 using the portfolio manager.	Meet ASHRAE/IESNA 90.1 - 2004 with amendments or local energy code (whichever is more stringent)
here	Optimize energy performance (1-10 credits)	Reductions in energy use below that set in ASHRAE/IESNA 90.1 - 2004 without amendments:	Achieve an EPA energy performance rating of at least:	Reductions in lighting power density below that set in ASHRAE/IESNA 90.1 - 2004 with amendments:
Energy & Atmosphere		• 10.5% = 1 point • 14.0% = 2 • 17.5% = 3 • 21.0% = 4 • 24.5% = 5 • 28.0% = 6 • 31.5% = 7 • 35.0% = 8 • 38.5% = 9 • 42.0% = 10		 15% = 1 point 25% = 2 35% = 3 And install daylight responsive controls in regularly occupied spaces within 15' of windows and under skylights = 1 point.
	Enhanced metering (¼ credit)	Lighting systems and controls are optional.	Lighting systems and controls are optional.	Lighting systems and controls are not optional.
S	Mercury content in lamps (prerequisite)		Below 100 picograms per lumen-hour.	
source	Mercury content in lamps (1 credit)		Below 80 picograms per lumen-hour.	
Materials & Resources	Recycled content	Lighting equipment is specifically excluded from this credit.		Lighting equipment is specifically excluded from this credit.
Ma	Regional materials	Lighting equipment is specifically excluded from this credit.		Lighting equipment is specifically excluded from this credit.
Indoor Environmental Quality	Controllability of systems (1-2 credits) • Provide individual lighting controls for 90% (minimum) of the building occupants to enable adjustments to suit individuals task needs and preferences AND • Provide lighting system controllability for all shared multi-occupant spaces to enable lighting adjustment that meets group needs and preferences.		Provide lighting control for: 50% of all occupants allowing for individual adjustments, and All shared areas	Provide lighting control for: • 90% of all occupants allowing for individual adjustments, and • All shared areas
		_		



LEED with Lighting – Optimizing Energy Performance



RTS™ Volumetric Recessed Lighting



Direct-Indirect Lighting



Architectural Grade Downlighting



Industrial Spaces



Commercial Downlighting



Exit Signs

Superior optics in the lighting will help the designer toward a goal of meeting the energy prerequisite of LEED and to maximize the number of optional points to be obtained while meeting the vision needs of the occupants. In interior spaces, high efficiency products such as these minimize energy use while providing excellent visual acuity and a safe and secure environment. Links are provided to web-based examples of using these products to meet LEED requirements.

RT5™ Volumetric Recessed Lighting

Looking for something better than the harsh overhead light and confining cave effect of parabolics? Choose the new standard in fluorescent lighting – RT5 volumetric recessed lighting from Lithonia Lighting. Unlike parabolics, RT5 luminaires are designed to deliver the right amount of soft, comfortable light throughout a room, truly enhancing the work environment. This makes this new fixture an ideal solution for offices, schools, hospitals, retail and other workspaces.

Producing 52 fc on 8'x10' spacing allows RT5 luminaires to consume up to 33% less energy then the standard 18-cell, 3-lamp, T8 parabolic for a lighting power density of only 0.75 watts per square foot. This is 43% less than the 90.1-1999 requirement for offices helping you toward six points under EAc1-Optimizing Energy Performance. Intelligent technology includes stepped switching bi-level output, and for even greater energy savings, end-of-life sensing.

Direct-Indirect Lighting

Peerless has always designed lighting fixtures that use high efficiency fluorescent lamps, and in fact, we pioneered the concept of indirect lighting, a healthier, more energy-efficient approach to lighting offices and educational environments. Recently conducted research into the effects of lamp operating temperatures on performance, allowed us to further increase efficiency by ensuring all our luminaires are thermally optimized. We also have designed HOT-5 + products to achieve the lamp manufacturers' peak output rating of 5000 lumens, reducing energy and materials usage, reducing lamp maintenance and disposal costs.

Architectural Grade Downlighting

Make a distinct visual statement while using highly efficient sources such as compact fluorescent. Differentiate a space with light. Add unique character; give your design an edge. You want to play with light. So do we. ICE™ is about having some fun with lighting while saving energy.

Industrial Spaces

Lithonia's new I-BEAM™ unit is the perfect match for high bay situations. Available in 4 or 6 high performance T8 lamps with wide or narrow distributions, the I-BEAM Series ranges in efficiency from 87% to more than 96%. When HID is still the right choice, we have a wide range of luminaires using pulse-start technology. A change in the lamp and ballast construction allows pulse-start metal halide lamps to start using a high voltage ignitor in the ballast instead of a starting electrode (probe) in the lamp. The result is a "white light" system that challenges high pressure sodium's long lamp life, high lumen output and quick starts capabilities.

Lithonia Commercial Downlighting

Compact fluorescent downlights are ideal for energy-efficient illumination in many applications. Reduced energy consumption coupled with long lamp life reduces energy and maintenance costs. Lithonia Downlighting products offer exceptional quality, performance, availability, versatility and selection to help you meet your design needs.

Exit Signs

The Precise® edge-lit, Signature® die-cast aluminum, Extreme® all-conditions cast aluminum and Quantum® thermoplastic exit sign families provide a broad range of attractive products for many building applications where low energy consumption and longevity are required. Our LED lighting sources provide bright and even illumination that lasts more than 25 years with energy requirements of as little as 0.62-watts. The high performance levels of Lithonia Lighting exit signs easily surpass the stringent guidelines that have been set by the EPA and U.S. Department of Energy.



LEED with Lighting – Controlling the Lights

To make the most of the LEED criteria EAp2-Minimum Energy Performance, EAc1-Optimize Energy Performance, EAc5-Measurement & Verification and EQc6-Controllability of Systems lighting controls are a must, including:

- Automatic shutoff
- Occupancy sensors
- · Lighting load reduction
- Daylight harvesting
- · Outdoor lighting control

Synergy® System

A unique lighting control system that integrates all aspects of lighting control into a single system platform. Synergy combines architectural dimming, low-voltage switching, lighting automation and energy management functions into a single scalable package capable of meeting the requirements of virtually any lighting control application.

Occupancy Sensors

The ABL sensor line consists of multiple sensing technologies including Infrared, Ultrasonic and combined multi-technology offering directional or omni-directional sensing. These sensors provide effective coverage for automatic on/off lighting control in indoor applications, immediately switching lights on when movement is detected. After the room is vacated for a preset length of time, the sensor automatically switches lights off.

KiloWatch® System

Ideal for warehouses, storage areas, parking garages, shipping docks and gymnasiums. Energy savings for HID lighting through a multi-level control system. With energy costs on the rise, there is a need for a better control of energy usage. Efficient, well-designed lighting systems offer a tremendous opportunity to reduce energy consumption while maintaining productivity. The KiloWatch system from Lithonia Lighting combines the high efficiencies and energy savings of high intensity discharge lighting with proven control technology, allowing you to have light when you need it and save energy when you don't. KiloWatch systems can reduce lighting power cost by up to 40%.

Multi-Level Outdoor Lighting

Acuity Brands Lighting offers a compact and economical lighting control panel that offers simplified solutions for exterior lighting control applications. This time-based controller switches lighting On/Off at pre-set times while managing a variety of low-voltage inputs for photocells and switches. The built-in astronomic time clock function with daylight savings capability meets many outdoor lighting control code requirements. Relays are rated to directly switch 20A or 30A lighting loads, eliminating the need for external contactors or relays.



Synergy® System



Occupancy Sensors



KiloWatch® System

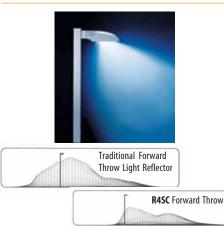


Multi-Level Outdoor Lighting



LEED with Lighting – LEED Goes Outdoors





Superior Optical Designs



Eurotique® Luminaires

Full Cutoff Luminaires

Whatever your needs, 150W to 1000W, square or round housings, architectural styling or economic solutions, Acuity Brands Lighting has the right full cutoff product to assist you in meeting LEED criteria SSc8 (Light Pollution Reduction). Full cutoff distributions are available in area, roadway and wall mounted fixtures.

Superior Optical Designs

The Aeris™ Series provides nighttime performance as dramatic as its daytime appearance. High performance optics make the best use of new efficient lamps, resulting in low energy consumption. These reflectors are tuned for improved performance at lower mounting heights ensuring pole-mounted luminaires will maintain proper scale with the structure. Distribution types SR2, SR3, SR4SC (sharp cutoff), SR4W (wide), and SR5S provide choices for effective coverage of roadways, parking lots, walkways and campuses, All reflectors are interchangeable and can be rotated in 90° increments. The unique nature of the Aeris optics virtually eliminates the stripes, or striations, normally associated with horizontal lamp luminaires. For more than 10 years, the SR4SC distribution has been the industry's best solution to controlling stray light behind the pole. With a new and improved design, the SR4SC now provides even more light in front of the pole while improving cutoff of back light. Aeris luminaires are true architectural lighting instruments. The SR4SC optics package is available in a wide range of outdoor products including projects looking for an economical solution.

Eurotique® Luminaires

Performance with style! Eurotique luminaires offer superior nighttime performance without jeopardizing the architectural integrity of your project. The carefully scaled family approach to design offers you the ability to begin at the building and continue through the parking lot and into the street with continuity in your design. The multiple fixture and arm styles along with the availability of two different sizes gives you the ability to match virtually any architectural style. The modular design concept of Eurotique offers ease of installation and simple lamp and ballast access for maintenance. Eurotique products are available in a Full Cutoff distribution to meet SSc8 – the Light Pollution Reduction credit.

Luminaire Efficacy Rating (LER)

The Energy Policy Act of 1992 requires that the lighting industry develop a rating for luminaires that allows designers to compare the energy efficiency of lighting products.

Luminaire Efficacy Rating (LER) has been developed by the National Manufacturer's Association (NEMA) and approved by the National Lighting Collaborative to fulfill the requirements for the Energy Policy Act.

The Collaborative represents a broad spectrum of industry professionals including manufacturers, industry associations, government, designers and energy conservation groups.

This rating already has begun to be incorporated on Lithonia specification sheets and catalog information. NEMA document LE5 describes the calculation of LER as:

where

EFF = luminaire efficiency

TLL = # lamps per luminaire X rated lumens per lamp

BF = ballast factor

Input watts = total system watts of the luminaire

This results in a lumens-per-watt rating that can be used to compare the energy efficiency of various products.

The initial implementation of rating luminaires covers categories of common fluorescent 4' and 8' luminaires, downlights and HID industrial luminaires. In addition to the LER value, a prefix indicating the type of source and general category of luminaire (such as FL for Fluorescent Lensed, FP for Fluorescent Parabolic or HO for HID Open Industrial) ensures that comparisons can be made among similar products.

www.AcuityBrandsLighting.com

Energy and Environmental Information

As part of the Lithonia Lighting commitment to quality, our laboratory has been accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), administered by the National Institute of Standards and Technology (NIST).

The Acuity Brands Lighting – Conyers Lab is NV-LAP-accredited for the scope of accreditation under NVLAP Lab Code 200007-0. NVLAP accreditation is based on an assessment of a laboratory's quality system, technical qualifications and competence to perform tests in accordance with specific test methods.

Our accreditation is under the NVLAP Energy Efficient Lighting Products Program. For a complete listing of the scope of accreditation, go to the website:

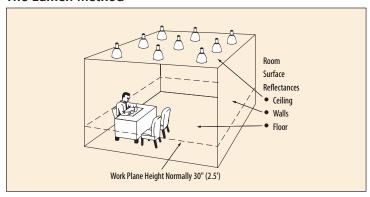
ts.nist.gov/ts/htdocs/210//214/scopes/2000070.htm.



Lighting Calculations

Well-balanced illumination is the signature of quality lighting design. Whether lighting for visual task performance or for aesthetic appeal, calculations are the mechanism through which quality design is achieved. The following methods are instrumental in designing and evaluating potential systems.

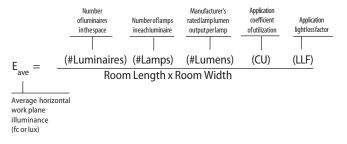
The Lumen Method



The lumen method is used when an average horizontal illuminance level is desired. It is based on the fundamental equation for illuminance, or

Illuminance =
$$\frac{Luminous flux in lumens}{Area}$$

The general lumen method equation, also known as the zonal cavity method, is:



An alternate form via algebraic manipulation is:

of Luminaires Required =
$$\frac{(E_{ave} \text{ desired}) (L) (W)}{(\#Lamps) (\#Lumens) (CU) (LLF)}$$

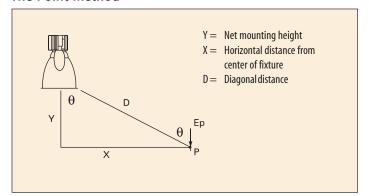
The *coefficient of utilization* is based on the photometric distribution of the luminaire and the geometry and surface reflectances of the space. It is typically less than 1.0 and represents the percentage of the total lamp lumens that ultimately reach the horizontal work plane (see figure above). Pre-calculated values can be found on the appropriate product's specification sheet.

The *light loss factor* accounts for decreased light output over time. It addresses variations from test conditions, equipment operating characteristics, depreciating lamp lumen output, dirt buildup, material degradation and ballast factor.

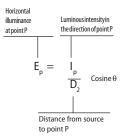
This calculation method is valid for an empty rectangular room geometry, a uniform layout of lighting equipment and uniform luminance on room surfaces.

The Visual® Lumen Method Tool is lighting design sofware that provides step-by-step guidance through the Lumen Method calculation, as described in the IESNA handbook. It is included with both the Visual Basic and Professional Editions, and is available from Acuity Brands Lighting Group at www.visuallightingsoftware.com.

The Point Method



The point method is used to determine the specific illuminance at a point in space. These calculations are invaluable for analyzing the variations in illuminance over a region. Based on spatial geometry, the point method equation, also known as the inverse square and cosine laws, is:



The *luminous intensity* is found in a luminaire's photometric report, and the distance is computed using a standard geometric formula. Referring to the figure above, the formula for the diagonal distance D is:

$$D = \sqrt{(X^2 + Y^2)}$$

Because light is additive, the total direct point illuminance is simply the sum of the individual contributions from each luminaire or source.

The point method as presented here does not account for light that is reflected from room surfaces.

While point illuminance can be calculated using the inverse square cosine law, this method does not account for light that is reflected from room surfaces or shadows from obstructions. Visual* software from Acuity Brands Lighting Group is a collection of lighting calculation tools and powerful 3D modeling software engineered to simplify the design process and provide a comprehensive analysis for advanced lighting projects. The Visual Professional Edition is a comprehensive lighting analysis tool designed for demanding interior and exterior applications. The Professional Edition combines an intuitive user interface with the latest advances in radiosity theory to provide efficient and highly accurate analysis of complex modeling environment, resulting in an intuitive and powerful design experience. A trial edition of Visual software can be obtained from www.visuallightingsoftware.com.



Troubleshooting Guide

Most lighting installations provide reliable service for many years with no maintenance except for routine cleaning and lamp replacement. If a malfunction does occur, use the information below to diagnose and correct the problem. Disconnect the power before servicing any lighting system. Do not perform service while the fixture is engaged. Contact the Lithonia Customer Service Department if you need further assistance.

The following is a list of common malfunctions, possible causes and appropriate corrective action.

Lamp Will Not Start

Incorrect lamp or ballast – Check fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check that lamp is in proper burning position (Metal Halide).

Lamp is improperly seated in socket – Back out lamp and retighten. Check pin connection with socket. HID: Check to see if center contact of socket is compressed. If so, disconnect fixture from power supply and bend contact into position with a screwdriver.

Incorrect or loose wiring – Disconnect from power. Check wiring connections. HID: Connect fixture lead marked with proper voltage to voltage supply lead. 120V, 277V and 347V: Connect lead marked COM to neutral supply. 208V, 240V and 480V: Connect lead marked COM to other voltage supply lead.

Lamp at or near end of life – Replace with new lamp. HID arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Photoelectric control defective – Disconnect button type cell from circuit or replace NEMA twist-lock cell with shorting cap, test fixture. If lamp starts, replace PE control.

Line or ballast output voltage low – Check line voltage at the fixture. Check open circuit voltage. See page 722 for HID ballasts.

Ballast burned out – Check circuit continuity. See page 711 for fluorescent ballasts. See page 722 for HID ballasts.

Starter circuit failure – Replace lamp with known good lamp. If lamp fails to start, replace starter.

Improper ambient temperature – Check ballast or fixture rating against existing environmental conditions. Fluorescent lamps experience starting problems when the ambient temperature is below 50°F. Mercury and metal halide will start above -20°F and high pressure sodium above -40°F.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Slow or Erratic Starting

Lamp at or near end of life – Replace with new lamp. HID arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Line or ballast output voltage low – Check line voltage at the fixture. Check open circuit voltage. See page 722 for HID ballasts.

Line voltage varies – Check incoming voltage with recording voltmeter (if this is the problem, check other equipment on the same circuit).

Incorrect lamp or burning position – Check fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check for proper lamp operating position (metal halide).

Improper ambient temperature – Check ballast or fixture rating against existing environmental conditions. Fluorescent lamps experience starting problems when ambient temperature is below 50°F. Mercury and metal halide will start above -20°F and high pressure sodium above -40°F.

Hard-starting lamp – Replace with new lamp if delay is lengthy.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast near or at end of life – Test ballast. See page 711 for fluorescent ballasts.

Blinking, "Snaking" or Flickering (Fluorescent)

New lamp may need to be seasoned – Turn fixture on and off several times at 30-minute intervals.

Ambient temperature too low—If ambient temperature is below 50°F, change to ballast rated for conditions.

Significant air movement across lamps – Check for fans or air conditioning blowing across lamps.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Line voltage varies – Check voltage supply. See page 711 for fluorescent ballasts.

Cycling (Lamp Turns On and Off)

Line voltage varies – Check voltage supply.

Faulty insulation detector (recessed fixtures) – Bypass to verify or move insulation if in contact. Insulation must be kept at least 3" from the side and 1/2" from the top of the fixture.

High Intensity Discharge:

Lamp at end of life or defective HPS lamp – Replace with new lamp.

PE control receives reflected light – Cover PE control and test fixture.

Incorrect lamp or ballast – Compare fixture and lamp labels for matching wattage and source. Compare fixture and system voltage rating.

Ballast output voltage low – Check line voltage at fixture. Check open circuit voltage. See page 722 for HID hallasts.

Incorrect lamp operating position (metal halide) – Check lamp specifications for proper operating position.

Fluorescent:

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast is operating too hot – Check for high ambient temperatures, ventilate or suspend fixture.

Ballast near or at end of life – Test ballast. See page 711 for fluorescent ballasts.

Reduced Light Output

Improper ambient temperature – Fluorescent: Check for ambient temperature significantly above or below 77°F.

Air movement across lamps – Fluorescent: Check for fans or air conditioning blowing across lamps.

Lamp at or near end of life – Replace with new lamp. HID arc tubes will blacken near end of life. Mercury and metal halide lamps will produce low light output and may exhibit intermittent starting. Metal halide will suffer severe color changes. High pressure sodium lamps will exhibit normal starting, but will turn on and off (cycle) during operation. The envelope of a high pressure sodium lamp may develop a brownish discoloration. Low pressure sodium lamps will operate at nearly full light output but starting will become impossible at end of life.

Incorrect or loose wiring – Disconnect from power. Check wiring connections.

Ballast near or at end of life – Test ballast. See page 711 for fluorescent ballasts. See page 722 for HID ballasts.

Short Lamp Life

Incorrect lamp or ballast – Compare fixture label against lamp type. Check lamp and ballast ANSI numbers to ensure they match. Check that lamp is in proper burning position.

Line voltage or ballast output voltage low – Check line voltage at fixture. Check open circuit voltage. See page 722 for HID ballasts.

Lamp operates less than 10 hours per start — Rated lamp life is based on 10 hours of operation per start. General rule for expected lamp life is: 50% reduction in burn time per start results in 25% reduction in lamp life.

Faulty lamp – Replace with new lamp.

Radio Interference (Fluorescent)

Interference from electronic equipment – Move electronic equipment at least 10 feet away from lamps. Install radio frequency shielding. Install radio interference filter. Improve equipment grounding. Install shielded and grounded radio antenna.

Blown Fuses or Tripped Circuit Breaker (HID)

Improper fuses installed in fixture – Check fuses to fixture manufacturer's specification. Replace if incorrect.

Overloaded circuit – Verify that total circuit load is less than circuit rating.

Shorted (grounded) fixtures – Check with shorted (grounded) test. If shorted, replace fixture. See page 722 for HID ballasts.



Ingress Protection

The IEC (International Electrotechnical Commission) uses the term "International Protection" or IP to define the environmental protection of an enclosure. This is described in IEC Standard 529.

The IP rating system designates, by means of a two-digit number, the degree of protection against ingress of dust and moisture. The first digit defines the level of protection against solid objects, while the second digit defines the level of protection against moisture. The higher the digit, the greater is the level of protection.

First Digit Degree of protection against solid objects	Second Digit Degree of protection against water
0 Non-protected	0 Non-protected
1 Protected against a solid object greater than 50mm such as a hand	Protected against water dripping vertically
2 Protected against a solid object greater than 12mm such as a finger	2 Protected against dripping water when incident up to 15° from vertical
3 Protected against a solid object greater than 2.5mm such as a wire or a tool	3 Protected against water spraying at an angle of up to 60°
4 Protected against a solid object greater than 1.0mm such as a wire or thin strip	4 Protected against water splashing from any direction
5 Dust-protected. Prevents ingress of dust sufficient to cause harm	5 Protected against jets of water from any direction
6 Dust-tight. No dust ingress.	6 Protected against heavy seas or powerful jets in harmful quantities
	7 Protected against harmful ingress of water when immersed between a depth of 150mm and 1 meter
	8 Protected against submersion. Suitable for continuous immersion in water

Protection Against Moisture

UL and CSA define several levels of protection against moisture damage to a luminaire. These definitions describe the space in which the luminaire is intended to operate without damage to the electrical or mechanical components from the environment. These definitions cover pure water protection only, not damage protection from acidic or alkaline conditions.

Dry Location – A location not normally subject to dampness, but may include a location subject

to temporary dampness as in the case of a building under construction, provided that ventilation is adequate to prevent an accumulation of moisture.

Damp Location – An exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Wet Location – A location in which water may drip, splash, or flow on or against electrical equipment. A wet location fixture is constructed so that water cannot enter or accumulate in the wireway, lampholders or other electrical parts. Wet location does not mean *hosedown*. A rating for low-pressure (100psi) or high-pressure (200psi) hosedown is an additional option.

Hazardous Areas

Hazardous areas are locations where atmospheres may be exposed to the release of flammable dusts, vapors or gases in explosive concentrations. The National Electrical Code requires that these areas be classified and sets rules for the types of luminaires that may be installed in them. Luminaires are typed in Article 500 of the NEC as Class I, Class II and Class III locations. All electrical equipment must be tested

and listed (or approved) by class, division and group for use in each respective area. The hazardous materials defined in each of these classifications are: Class I, Flammable gases or vapors; Class II, Combustible dust and Class III, Combustible fibers or flyings. Each class is subdivided into two divisions depending on the likelihood that the hazard will be present. Division 1 applies to an area where the hazardous condition would nor-

mally exist, while Division 2 applies to an area where there is a potential for the hazardous condition to exist.

Each classification also is subdivided by groups representing the types of gas or dust that will or might be present. Gases fall into Groups A, B, C or D. Dusts fall into Groups E, F or G. There is no group subdivision for fibers or flyings.

Environmental Constraints

Lighting equipment must be chosen from the listing for the class, group and division of the hazardous material present in the areas where

they are to be used. Improper application of a luminaire can result in fire or explosion, which could cause serious injury or death to the occu-

pants. Classification of these areas within a plant must be made prior to selection of the light source and luminaire type.



Class	Division	Group
l Gas	 Area where gases or vapors are normally present Area where gases or vapors are handled or stored but are normally confined 	A. Acetylene B. Hydrogen C. Ethyl ether etc. D. Gasoline, natural gas etc.
ll Dust	Area where combustible dust is always present Area where combustible dust may be present	E. Metal dust F. Carbon black, coal dust etc. G. Flour or grain
III Fibers	Production areas Handling or storage areas	Atmospheres containing wood, textile or synthetic fibers

Food Processing

Sanitation is a critical part of the food processing industry. Because of this, a thorough cleaning and sanitizing program must be incorporated into the food production process. High-pressure wash-down with hot water and/or sanitation chemicals may approach 1000-psi nozzle pressure. Lighting fixtures must be designed and manufactured so as not to leak, corrode, harbor bacteria, or cause fires or electrical problems. Lamps must be protected so if they break, glass or other materials shall not contaminate the food production area.

The National Sanitation Foundation (NSF) is a not-for-profit, independent, third-party certifier

of products and systems for conformity with consensus and official regulations and specifications, industry standards, and product-specific test protocols. NSF requires that all materials, which could come in contact with food products, meet the stringent requirements of the Federal Food, Drug, and Cosmetic Act (FDA). In order to determine its suitability for use in food processing and food handling areas, the equipment and the manufacturer must pass a stringent series of tests. NSF performs all tests in their own laboratories.

Lighting equipment falls under the NSF C-2 listing procedure (Special Equipment and/or devices). The C-2 procedure has protocols that ana-

lyze the physical design of, the specific properties of each substance used in the manufacture of, and the fabrication of the fixture. In addition, NSF investigates the reliability of the manufacturer and the manufacturing process as it relates to the listed product.

There are three certifiable locations for equipment used in food processing.: Non-food Zone, Splash Zone and Food Zone. Only the first two are applicable to lighting fixtures. These zones are defined in the following NSF table:

NSF Certification	Description Of Location/Use and Commentary	Typical Lighting Applications
Non-Food Zone	Areas where direct contact with food products during normal operations would not be expected. Equipment is located outside the normal wash-down area. There is a concern that the fixture will add contamination to the protected space or food product (i.e. cleanability – will the finish withstand cleaning, chipping paint, deteriorating paints or finishes, lens impact resistance, lamp glass breakage, etc.)	Kitchens; food storage; dry process areas; damp process areas – no drip possibility.
Splash Zone	Areas where direct contact with food products during normal operations would not be expected; however, the fixture may be situated such that liquids used in the processing or cleaning procedures, may splash, spill or otherwise soil – either intentionally or inadvertently – the surface of the fixture. Then there is the potential for dripping or draining onto other surfaces or even the process. Since these fixtures often are used in wash-down areas, a wet-location listing is not sufficient. Fixtures must be tested to withstand high-pressure hose wash-down. The concerns of non-food zone also apply.	Wet or damp process areas; high pressure purging or decontamination used in the process; area using hose wash-down.
Food Zone	Areas where direct contact with food products is normally expected and surfaces from which the food may drip, drain, or splash back onto surfaces normally in contact with food. Equipment other than lighting fixtures typically require this certification (i.e. work tables, cutting boards, other direct contact equipment).	Category not typically used for lighting.



Cleanrooms

A cleanroom is a room in which the concentration of airborne particles is controlled to specified limits. These particles can be in the form of dust, spores, vapors, skin flakes, hair fragments etc. If present in a sensitive environment, they can destroy or severely alter products being manufactured. To keep contamination to a minimum, a cleanroom must be designed and constructed according to very strict guidelines, and the lighting fixtures selected need to maintain the integrity of the space.

Cleanrooms are classified according to the number and size of particles found in a given cubic measure of space. Particle limits are set forth by Federal Standard 209E and, more recently, by ISO standards 14644-1 and 14644-2. Because these ISO standards are international in scope and are

directly impacted by ISO 9000 and ISO 14000 certification criteria, they often are accepted as replacing Federal Standard 209E classes. Both of these standards refer to the maximum allowable number of particles of a given diameter per cubic area of measure, but differ in describing both the size particle and the area of concentration. Also different under each system are procedures for testing and measuring these environments, both initially and for ongoing conformance.

In order to achieve a Class 1 or Class 10 (Federal Standard 209E) or ISO Class 3 or Class 4 level, laminar airflow design is incorporated into the cleanroom. Laminar airflow moves all air in a vertical or a horizontal pattern through the space. With vertical airflow, the entire ceiling system consists of high-efficiency particulate air (HEPA)

filters or ultra-low penetration air (ULPA) filters, which screen out 99.995% and 99.999% of the particles respectively. All incoming purified air moves in a vertical pattern through the ceiling, down to a raised, ducted floor, and back up through the outer walls. With horizontal laminar flow, the same principle is used with a horizontal pattern and filtered walls.

As the process in the cleanroom becomes less critical, greater quantities of particles may be present in the air without causing problems in the manufacturing process. Thus, the class of the cleanroom may be higher. Federal Standard 209E will determine the class of cleanroom required for the activity to be performed.

Federal Standard 209E

	Airborne particle size/limits											
Cleanroom Class		0.1 microns		0.2 microns		0.3 microns		0.5 microns		5.0 microns		
English	SI	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	
1	M1.5	35	1,240	7.5	265	3	106	1	35	-		
10	M2.5	350	12,400	75	2,650	30	1,060	10	353	-		
100	M3.5	_		750	26,500	300	10,600	100	3,530	-		
1,000	M4.5	_		_		_		1,000	35,300	7	247	
10,000	M5.5	_		_		_		10,000	353,000	70	2,470	
100,000	M6.5	_		_		_		100,000	3,530,000	700	24,700	

ISO Classification Chart – Selected ISO airborne particulate cleanliness classes for cleanrooms and clean zones

Maximum concentration limits (particles/m³ of air) for particles equal to and larger than the considered sizes below												
Classification	Classification											
number	0.1 microns	0.2 microns	0.3 microns	0.5 microns	1.0 microns	5.0 microns						
ISO 1	10	2	-	-	-	-						
ISO 2	100	24	10	4	-	-						
ISO 3	1,000	237	102	35	8	_						
ISO 4	10,000	2,370	1,020	352	83	_						
ISO 5	100,000	23,700	10,200	3,520	832	29						
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293						
ISO 7	_	_	_	352,000	83,200	2,930						
ISO 8	-	-	-	3,520,000	832,000	29,300						
ISO 9	_	-	_	35,200,000	8,320,000	293,000						



Acrylic Environmental Compatibility Chart

Acrylic reflectors, refractors or lenses should not be used in any location where they will be exposed to environmental contaminants that may diminish their integrity. Many chemicals can be vaporized and attack the acrylic as an airborne contaminant. Exposure of Acrylic (PMMA - Polymethylmethacrylate) materials to certain chem-

icals can cause deterioration of the material, which may lead to discoloration, crazing, cracking and mechanical failure. Products with visually noticeable deterioration have diminished integrity and must be replaced immediately. Acrylic products should not be cation where they will be expo

directly to compounds identified as "Not Recommended". This chart identifies the most common chemicals and is not intended to be all-inclusive. Prolonged exposure to compounds identified, as "Not Recommended" will void any warranty asso-

Acceptable 2-Ethylhexyl Sebacate Nitrogen Dioxide Gas Acetic Acid, 5% Nitrogen Monoxide Gas Ammonia-based Cleaners Olefric Carbolic Acids Ammonia Gas Oleic Acid Ammonium Hydroxide, 28% Olive Oil Ammonium Nitrate Oxalic Acid, 100% Ammonium Phosphate Oxygen Gas Aniseed, Bay leaves, Nutmeg Ozone Gas Anti-freeze Paraffin, Medicinal Beer Pepper, Cinnamon, Onions **Bleaching Powder Paste** Phosphoric Acid, 10%@20C Bleaching Powder Solution, 2% Photographic Baths Calcium Hypochlorite **Polishing Compounds** Car Wash Detergent Potassium Chlorate Carbon Dioxide Gas Potassium Cvanide Carbon Monoxide Gas Potassium Dichromate, 10% Caustic Potash Potassium Hydroxide @ 20C **Chlorine Based Cleaners** Potassium Permanganate Chlorine, Aqueous, 2% Potassium Sulfite Citric Acid, 10% Power Steering Fluid Coffee Propylene Cooking Oil Pure-oil Paints Cottonseed Oil Silicone Oil Diethylene Glycol Silver Nitrate Epoxy Adhesives Soap Suds Ethyl Alcohol, 15% Soda Ethylene Glycol E Sodium Chloride, 10% Ethylene Oxide (Dry) Sodium Cyanide Ferric Chloride, Aqueous, 10% Sodium Fluoride Formaldehyde, Aqueous, 40% Sodium Hydroxide, 60% Fruit Juice Sodium Nitrate Glycerol Sodium Thiosulphate, 40% Heptane Stearic Acid Hexane Sulfur Dioxide, Dry Gas Hydrochloric Acid, 38% Sulfuric Acid, 30% Kerosene Sulfurous Acid, 5% Lactic Acid Tararic Acid, 50% Metal Carbonates Transmission Fluid Metal Chlorides Tricresyl Phosphate Metal Sulfates Triethyl Amine Methane gas Vinegar Water, Mineral Water Milk, Chocolate Wax Polish Motor Fuel Mixture, without Benzene White Spirit Motor Oil Whitewash Natural Gas Wine

All technical information is believed to be accurate as of May 5, 2005.

pe used in any appli- posed directly or in-	ciated with the product. Consult factory for co patibility of compounds not identified.
Acetandehyde, 100%	Not Recommended
Acetates	Ethylene Oxide (Moist)
Acetic Acid, Glacial, 100%	Glass Cleaners
Acetic Anhydride	Glycol
Acetone	Hydrogen Peroxide, 28%
Acetonitrile	Hydrogen Peroxide, 3%
Acetophenone	Iron Perchloride
Acrylic paints	Isoctane
Alcohol, Allyl	Isopropyl alcohol
Alcohol, Amyl	Lacquer Thinner
Alcohol, Benzyl	Lactic Acid Butyl Ester
Alcohol, Ethyl, 100%	Mercury Chloride
Alcohol, Ethyl, 50%	Meta-Cresol
Alcohol, Isopropyl, 100%	Methanol, 15%
Alcohol, Methyl, 10%	Methanol, Concentrated
Alcohol, Methyl, 100%	Methyl Benzoate
Alcohol, Methyl, 50%	Methyl Chloride
Alcohol, n-butyl	Methyl Cycohexanol
Amyl Acetate	Methyl Ethyl Ketone
Aniline	Methyl Naphthalene
Aviation Fuel (100 Octane)	Methyl Salicyclate
Bathroom Cleaners	Methylamine
Benzaldehyde	Methylene Dichloride
Benzene	Mineral Oil
Benzoic Aldehyde	Motor Fuel Mixture, with Benzene
Brake Fluid	Nail Polish
Bromine Gas	Naphtha
Butanol	n-butyric Acid, 100%
Butraldehyde	Nitric Acid, 40%
Butyl Acetyl Ricinoleate	Nitric Acid, 70%
Butyl Stearate	Nitrobenzene
Carbolic Acid	n-Octane
Carbon Disulfide	Paint Removers
Carbon Disultide	Paint Thinner
Cellulose Paints	Perchlorethylene Petroleum Ether (100-120C)
Chlorinated Hydrocarbons	Phenois
Chlorinated Solvents	Phenol, Aqueous, 5%
Chlorine Gas	Phosphoric Acid, 95% @ 20C
Chlorophenol	Phthalates
Chromic Acid, 40%	Pyridine
Cloves	Soap Solution
Coffee	Sodium Carbonate, 2%
Cosmoline Removers	Sodium Carbonate, 20%
Cresol	Sodium Phosphate
Cyclohexane	Sulfur Dioxide, Liquid
Cyclohexanone	Sulfuric Acid, 98%
Cyclohexene	Sulfurous Acid, Concentrated
Detergent Solution	Tea
Diacetone Alcohol	Tincture of lodine, 5%
Diamyl Phthalate	Toluene
Dibutyl Sebacate	Transformer Oil
Diethyl Ether	Trichloraethane

ScuityBrands.

Trichloraethane

Trichloroacetic Acid

Trichloroethylene

Unleaded Gasoline

Vegetable Oil

Xylene

Turpentine

Dimethyl Formamide

Ethyl Alcohol, Concentrated

Dioctyl Sebacate

Ethyl Acetate

Ethyl Bromide Ethyl Butyrate Ethylene Bromide Ethylene Dibromide

Dioxane

Ether

Nitric Acid, 10%

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A1210B low bay opticals	375	Affinity emergency units	432	Ballast characteristics	707
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