

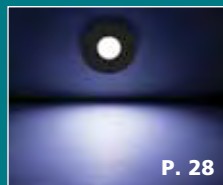
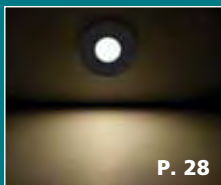
NSL

ARCHITECTURAL AND DECORATIVE LIGHTING

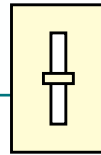
2014-2015



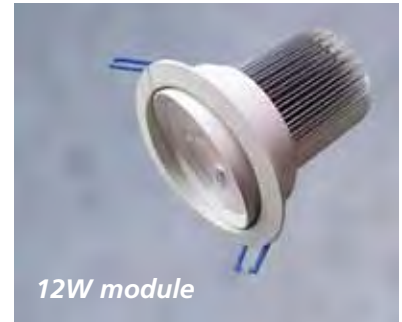
New Products!



*Celebrating our 28th year
serving the lighting industry*



8 watt module



12W module

DESCRIPTION

Introducing the new LED Low Voltage Down Light (LV-DL series) from NSL. The LV-DL series utilizes high brightness Epistar COB (Chip on board) LEDs offering good thermal performance, low power consumption (8.2W with the LV-DL8 series, 13W with the LV-DL13 series) and a long lifespan of 50,000 hrs. The LV-DL8 series has 5 different trim designs to choose from while the LV-DL13 offers a small 110mm (4") adjustable gimbal. Both LV-DL down lights feature a specifically designed heat sink to disperse heat and are powered by a constant current power supply that is dimmable with most trailing edge electronic dimming systems.

RESIDENTIAL APPLICATIONS

- ▶ Kitchens
- ▶ Bathrooms
- ▶ Pantries
- ▶ Living rooms
- ▶ Laundry rooms

COMMERCIAL APPLICATIONS

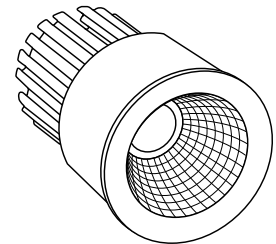
- ▶ Lobbies
- ▶ Retail
- ▶ Hallways
- ▶ Restaurants
- ▶ Elevators
- ▶ Office lighting
- ▶ Stairways

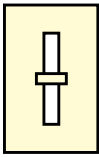


FEATURES

- Energy efficient – up to 80% energy savings
- High Brightness COB LED's
- Low power consumption
- Warm white and neutral white color temperatures

- Available in two standard beam angles
- New Construction, IC and remote installations
- ETL Listed for direct contact with insulation and combustible materials
- Self resetting thermal protector
- Easy to install, modular design
- 50,000 hour life





SPECIFICATIONS

LV-DL8 series

Product Code	Power (W)	Size in inches (size in mm)	Color Temperature WW/NW	Lumen (lm)	Beam Angle (°)	Input Current (A)	Input Voltage (V DC)
LV-DL8-XX-WW	8.2	Φ2 x 3 5/32 (Φ50x80)	3000–3500K	618	25/45	0.28	29
LV-DL8-XX-NW		Φ2 x 3 5/32 (Φ50x80)	4000–4500K	625			

XX - Specify 25 or 45° Beam angle when ordering i.e. LV-DL8-45-WW (module)

HOUSINGS: New Construction: LV-DL8-NC-A, IC: LV-DL8-IC-A, select corresponding A, B, or C housing to match A, B or C series trim selection. Remote LV-DL8-R

Order as 3 separate components for complete fixture. I.E., LV-DL8-NC-B housing, LV-DL8-45-WW module, LV-DL08-B5-WH Trim



LV-DL13 series

Product Code	Power (W)	Size in inches (size in mm)	Color Temperature WW/NW	Lumen (lm)	Beam Angle (°)	Input Current (A)	Input Voltage (V DC)
LV-DL13XX-WW-YY	12	Φ2 3/4 x 4, cut out Φ3 9/16 (Φ70 x 102, cut out Φ90)	3000–3500K	1080	30/60	0.28	42
LV-DL13XX-NW-YY			4000–4500K	1140			

YY – WH for white trim, AL for Aluminum trim

XX - Specify 30 or 60° Beam angle when ordering i.e. LV-DL13-30-WW-WH (module)

HOUSINGS: New Construction: LV-DL13-NC-C, IC: LV-DL13-IC. Remote: LV-DL13-R

Order as 2 separate components for complete fixture. I.E., LV-DL13-NC housing, LV-DL13-60-WW-WH module/trim

LV-DL8 Trim Options

A SERIES	LV-DL8-A1-AL	Regressed baffle trim, aluminum, A Series Φ3 5/32" (80mm)
	LV-DL8-A1-WH	Regressed baffle trim, white, A Series Φ3 5/32" (80mm)
	LV-DL8-A2-AL	Regressed single gimbal trim, aluminum, A Series Φ3 5/16" (88mm)
	LV-DL8-A2-WH	Regressed single gimbal trim, white, A Series Φ3 5/16" (88mm)
B SERIES	LV-DL8-B5-AL	Double gimbal flush trim, aluminum, B Series Φ4 1/16" (103mm)
	LV-DL8-B5-WH	Double gimbal flush trim, white, B Series Φ4 1/16" (103mm)
C SERIES	LV-DL8-C3-AL	Deep regressed baffle trim, aluminum, C Series Φ4 11/94" (109mm)
	LV-DL8-C3-WH	Deep regressed baffle trim, white, C Series Φ4 11/94" (109mm)
	LV-DL8-C4-AL	Deep recessed square baffle trim, aluminum, C Series Φ4 11/94" (109mm)
	LV-DL8-C4-WH	Deep recessed square baffle trim, white, C Series Φ4 11/94" (109mm)

LV-DL8 TRIM OPTIONS



LV-DL8-A1-WH



LV-DL8-A2-WH



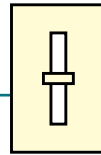
LV-DL8-B5-WH



LV-DL8-C3-WH

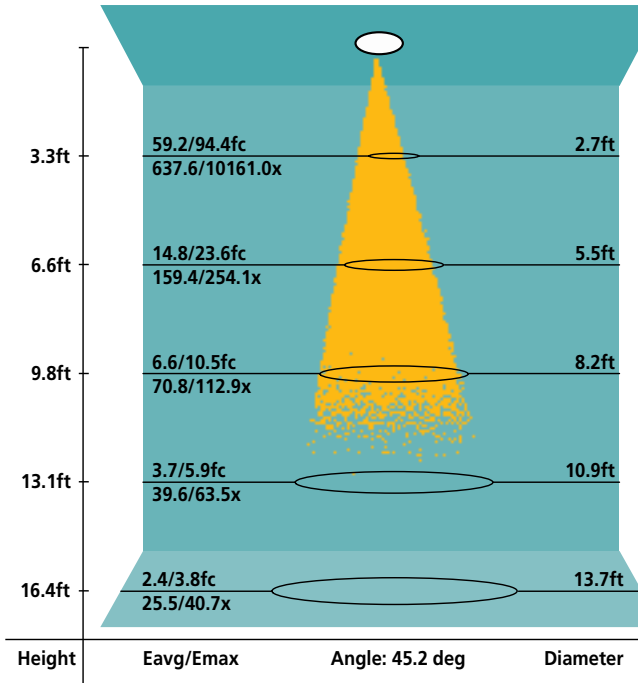


LV-DL8-C4-WH



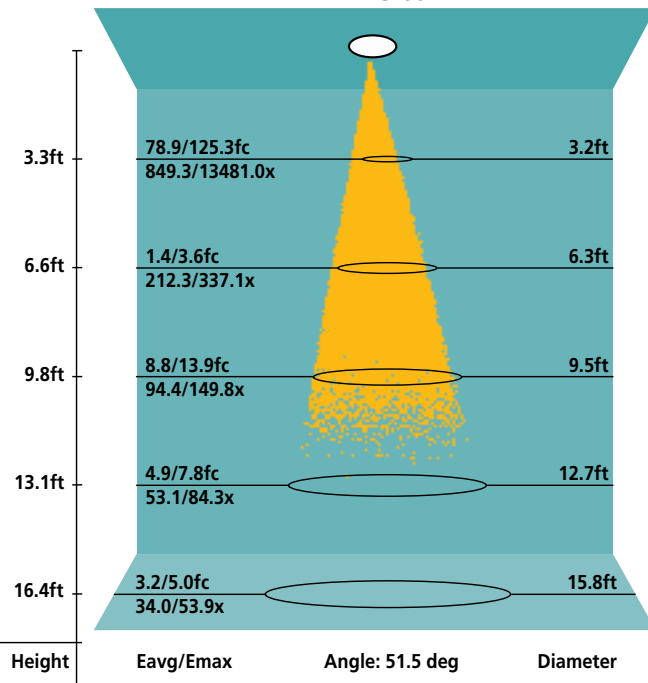
PHOTOMETRICS

LV-DL8-45-WW



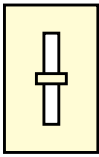
Note: The Curves indicate the illuminated area and the average illumination at a set distance from the LED Down Light.

LV-DL13-60-NW



Note: The Curves indicate the illuminated area and the average illumination at a set distance from the LED Down Light.





LV-DL8 HOUSINGS & ACCESSORIES

NC Housing	Description
LV-DL8-NC-A	New construction housing c/w driver, A Series $\phi 2\ 11/16"$ (68mm)
LV-DL8-NC-B	New construction housing c/w driver, B Series $\phi 3\ 1/8"$ (79mm)
LV-DL8-NC-C	New construction housing c/w driver, C Series $\phi 3\ 3/4"$ (95mm)
IC Housings	
LV-DL8-IC-A	Insulated ceiling housing c/w driver, A Series $\phi 2\ 11/16"$ (68mm)
LV-DL8-IC-B	Insulated ceiling housing c/w driver, B Series $\phi 3\ 1/8"$ (79mm)
LV-DL8-IC-C	Insulated ceiling housing c/w driver, C Series $\phi 3\ 3/4"$ (95mm)
Remote	
LV-DL8-R	Junction Box with Driver, 1 7/8" x 1 1/2" x 6"
Extension cords	
LV-DL-EX-10	10' Remote extension lead

LV-DL13 HOUSINGS & ACCESSORIES

NC Housing	Description
LV-DL13-NC-C	New construction housing c/w driver, $\phi 3\ 3/4"$ (95mm)
IC Housings	
LV-DL13-IC-C	Insulated ceiling housing c/w driver, $\phi 3\ 3/4"$ (95mm)
Remote	
LV-DL13-R	Junction Box with Driver, 1 7/8" x 1 1/2" x 6"
Extension cords	
LV-DL-EX-10	10' Remote extension lead

COLOR OPTIONS



Warm White Module



Neutral White Module

APPROVED DIMMERS

Lutron - Skylark - SELV300P
 Lutron - Maestro - MAELV 600
 Lutron - NovaT- NTELV 300
 Lutron - Diva - DVELV 300P
 Leviton - Illumatech - IPE04
 Leviton - Sureslide - 6615
 Leviton - Vizia - VZE061LZ
 Lutron - AYCL-153
 Lutron - CTCL-153
 Lutron - DVCL-153
 Lutron - MACL-153

PRODUCT CODES

LV-DL8-25-NW
 8 watt, 25° beam angle, 4000–4500K, Neutral White Module

LV-DL8-25-WW
 8 watt, 25° beam angle, 3000–3500K, Warm White Module

LV-DL8-45-NW
 8 watt, 45° beam angle, 4000–4500K, Neutral White Module

LV-DL8-45-WW
 8 watt, 45° beam angle, 3000–3500K, Warm White Module

LV-DL13-30-NW-AL
 13 watt, 30° beam angle, 4000–4500K, Neutral White, Aluminum Trim

LV-DL13-30-WW-AL
 13 watt, 30° beam angle, 3000–3500K, Warm White, Aluminum Trim

LV-DL13-30-NW-WH
 13 watt, 30° beam angle, 4000–4500K, Neutral White, White Trim

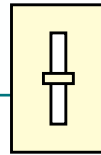
LV-DL13-30-WW-WH
 13 watt, 30° beam angle, 3000–3500K, Warm White, White Trim

LV-DL13-60-NW-AL
 13 watt, 60° beam angle, 4000–4500K, Neutral White, Aluminum Trim

LV-DL13-60-WW-AL
 13 watt, 60° beam angle, 3000–3500K, Warm White, Aluminum Trim

LV-DL13-60-NW-WH
 13 watt, 60° beam angle, 4000–4500K, Neutral White, White Trim

LV-DL13-60-WW-WH
 3 watt, 60° beam angle, 3000–3500K, Warm White, White Trim



**PHOTOMETRICS
ON PAGE 54**

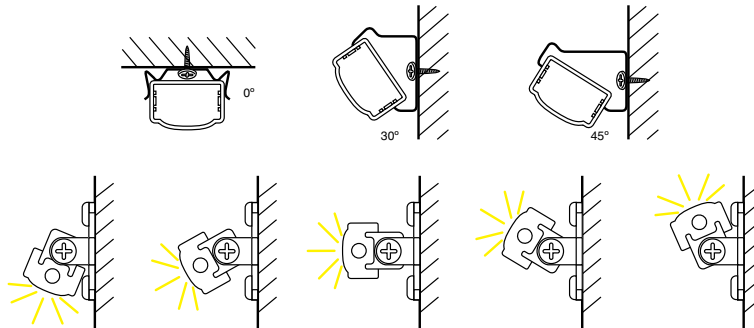
DESCRIPTION

Light Emitting Diode (LED) Hard Strips Series combines high output LED's in a unique linkable extrusion ideal for under cabinet, showcases, and in cabinet applications. LED Hard Strips is available in 3 sizes and 4 mounting options providing seamless, even distribution of light delivering outstanding light output and low power consumption.

APPLICATIONS

- ▶ Under Counter
- ▶ Display Cases
- ▶ Cabinet Interiors
- ▶ Work Stations
- ▶ Linear interior decorative lighting

MOUNTING OPTIONS



Rotary Mounting Clip

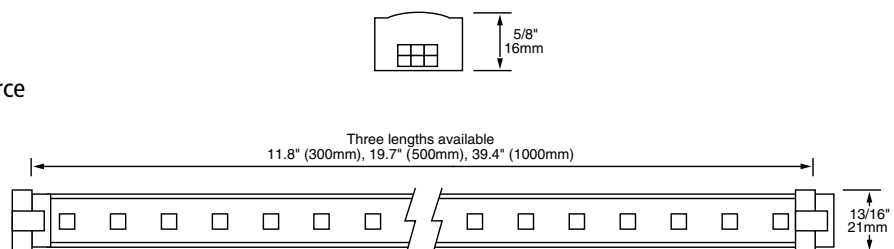
ACCESSORY

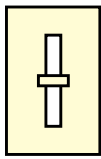


LMSII-001
Terminal Block and Junction Box for connection to additional lengths of power cable if needed

FEATURES

- Uses high brightness 0.5W SMD PLCC-2 LEDs as lighting source
- Even light with 120° viewing angle
- 24V DC
- 3 sizes (11 13/16", 19 11/16", and 39 3/8")
- Convenient connector between two strips
- Diffused frosted lens to reduce glare
- 40,000 hour rated life





DIMMABLE!

LED HARD STRIP

LED PRODUCTS

SPECIFICATIONS

	LV-HS-XX*-24T2-1Y**	LV-HS-XX*-24T2-2Y**	LV-HS-XX*-24T2-3Y**
Color Temperature			
Warm White	3000K +/- 200K	3000K +/- 200K	3000K +/- 200K
Neutral White	4200K +/- 200K	4200K +/- 200K	4200K +/- 200K
Cool White	6200K +/- 200K	6200K +/- 200K	6200K +/- 200K
RGB	-	-	-
Lens	Y**	Y**	Y**
Size	11 13/16" x 5/8" x 25/64"	19 11/16" x 5/8" x 25/64"	39 3/8" x 5/8" x 25/64"
Input Voltage (VDC)	24		
Power per strip	3.6W	6W	12W
Lumens (lm)			
Cool White	280	480	960
Neutral White	270	450	900
Warm White	252	420	840
RGB	-	-	-
LED Qty. per strip	18	30	60
Viewing Angle	120°		
LED Life	40,000 hours		

* XX = LED color: WW = warm white (3000K), NW = neutral white (4200K),

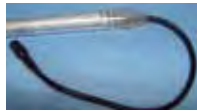
CW = cool white (6200K), RGB

** Y = Lens: F = frosted, clear lens on RGB LED Hard Strip

ACCESSORIES



LV-HS-PF1-12
12" Power Feed for LED Hard Strip single color, Bar - DC plug power supply



LV-HS-PF1-39
39" Power Feed for LED Hard Strip single color, Bar - DC plug power supply



LV-HS-PF1-HW
36" Power Feed for LED Hard Strip single color, Bar - Hard wire power supply



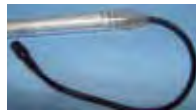
LV-HS-PC1-3
3" Power Connector LED Hard Strip single color, Bar - Bar



LV-HS-PC1-12
12" Power Connector for LED Hard Strip single color, Bar - Bar



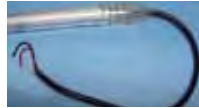
LV-HS-PC1-39
39" Power Connector for LED Hard Strip single color, Bar - Bar



LV-HS-PF2-12
12" Power Feed for LED Hard Strip RGB, Bar - DC plug power supply



LV-HS-PF2-39
39" Power Feed for LED Hard Strip RGB, Bar - DC plug power supply



LV-HS-PF2-HW
36" Power Feed for LED Hard Strip RGB, Bar - Hard wire power supply



LV-HS-PC2-3
3" Power Connector LED Hard Strip RGB, Bar - Bar



LV-HS-PC2-12
12" Power Connector for LED Hard Strip RGB, Bar - Bar



LV-HS-PC2-39
39" Power Connector for LED Hard Strip RGB, Bar - Bar



LV-HS-CN-3DC
Connector for Hard Strip, with 12" wire lead and 3 DC connectors



LV-HS-EC
End Cap for LED Hard Strip



LV-TC101
Mini Three Button Dimmer 24V, 96W



LV-RF103
Wireless RF Mini RGB Controller 24V, 96W



LV-HS-MC0
Mounting clip (2pk)



LV-HS-MC30
Mounting clip 30° (2pk)



LV-HS-MC45
Mounting clip 45° (2pk)



LV-HS-MCRT
Rotary Mounting clip (2pk)

Each Rigid bar ships with two pieces of 0° Mounting Clip

DRIVER OPTIONS

PORTABLE DRIVERS



(Both with six foot (72") power cord to polarized 2-prong, AC plug and 60" lead wire to DC plug and switch, cUL/us Listed)

LV-HSDR-36-24-PC

36W plug-in driver, 24V, DC Portable Driver, 1.5A output, 100V-240V input voltage

LV-HSDR-60-24-PC

60W plug-in driver, 24V, DC Portable Driver, 2.5A output, 100V-240V input voltage

NON DIMMABLE DRIVERS

LEDDR-24-120W

Max recommended load 90W per single tap, 120W combined two secondary taps.
120W hardwire
Input: 100 - 240V AC
Output: 24V DC
10" x 3 3/8" x 3 3/16"

DIMMABLE DRIVERS

(All with Input: 120V AC Output: 24V DC)

TR24L20DC

Max. recommended load 18W, min 9W LED Hard Strip
20W hardwire 5.6" x 2" x 2.14"

TR24L40DC

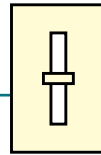
Max recommended load 36W, min. 18W LED Hard Strip
40W hardwire 5.6" x 2" x 2.14"

TR24L60DC

Max recommended load 54W, min 30W LED Hard Strip
60W hardwire 6.55" x 2.25" x 2.55"

TR24L96DC

Max recommended load 90W, min. 50W LED Hard Strip
96W hardwire 6.55" x 2.25" x 2.55"



Underside of Cabinet



Surface Mount

DESCRIPTION

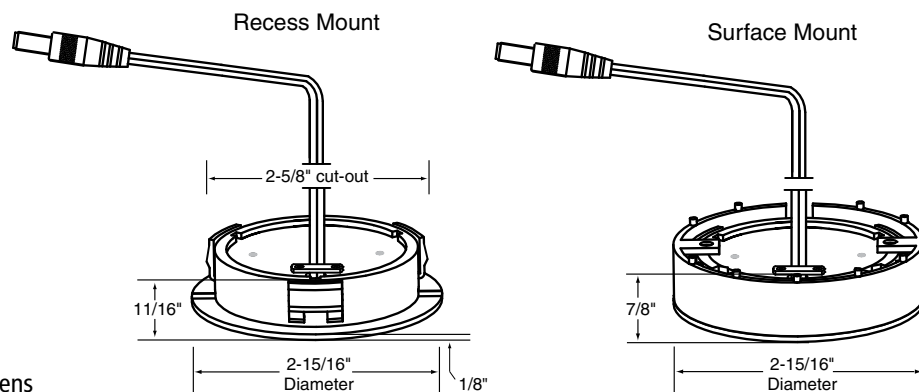
Save up to 87% in running costs compared to 20 watt xenon or halogen puck lights. Use in cabinets, display cases, retail environments, cubbies, entertainment centers, back bar areas, wine rooms, china cabinets, built-in shelving and anywhere a low-profile, economical puck light is required.

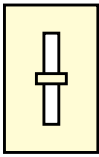
APPLICATIONS

- ▶ Under Counter
- ▶ Over cabinets
- ▶ Indirect lighting
- ▶ Display cases
- ▶ Furniture, shelf lighting

FEATURES

- Warm White (3000K) LED light with 80 CRI
- Plastic housing in two attractive finishes
- Easy installation – no lamps to replace, no dimmers to install!
- Produces minimal heat – helps keep displays cool
- Long life LEDs last up to 30,000 hours
- High light output – each puck delivers 125 lumens





DIMMABLE!

LED LP Puck Lights

SPECIFICATIONS

Input Voltage:	120V, 60 Hz AC operation (15V DC driver output)
Wattage	LP-1 = 2.9W, LP-3KIT = 8.2W, LP-5KIT = 13W
Maximum Run	6 single pucks or one 5-light kit plus one single puck using LP-6P-15W (included with 5-light kits)
LED specs	5630 SMD LEDs, 30,000 hours rated life
Color Temperature	Warm White (3000K)
Color Rendering Index	80
Dimmers	Dimmable with inline dimmer attached to plug-in drivers (LP-3P-9W and LP-6P-15W)
Lead wires	60" lead wires
Construction	Heavy duty, hard durable plastic
Dimensions	H = 7/8" (surface mounted), H = 1/8" (recessed mounted), Diameter = 2-15/16"
Mounting	Recess or surface mount
Cut-out	2-5/8" hole size for recessed mounting

**PHOTOMETRICS
ON PAGE 54**

ORDERING LOGIC

LP-X-YY

X = KIT

1 = Single Puck
3KIT = 3 Puck Kit
5KIT = 5 Puck Kit

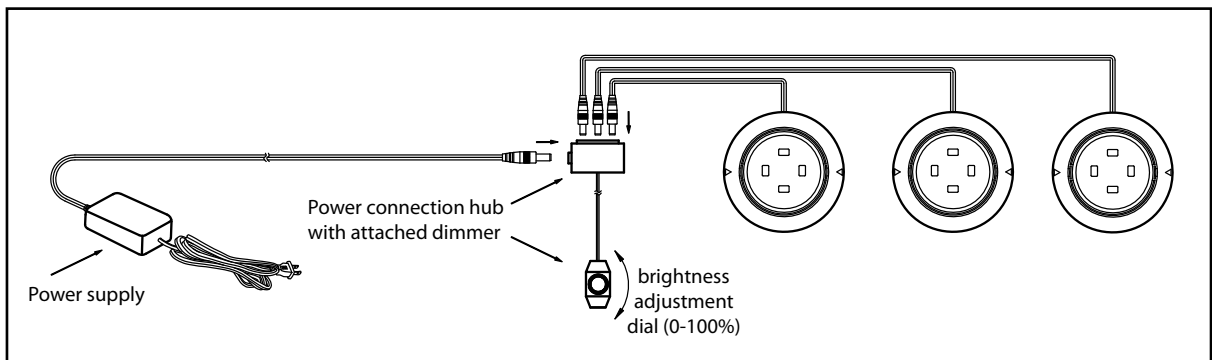
YY = FIXTURE FINISH

WH = White
BK = Black

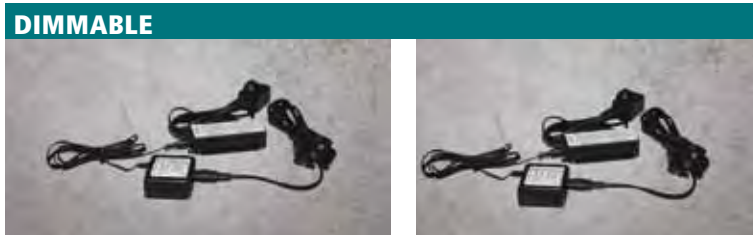
Note:

LP-3KIT-YY includes 3-hub connector, 9W plug-in driver and inline dimmer.
LP-5KIT-YY includes 6-hub connector, 15W plug-in driver and inline dimmer.

CONNECTIONS DIAGRAM

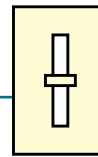


LED DRIVER OPTIONS



LP-3P-9W
9W plug-in driver, 120V, AC input, 15V, 600mA output; with six foot (72") power cord to polarized 2-prong AC plug and 60" lead wire to hub; includes 3-port hub and inline linear dimmer with 58" lead wire, cUL/us Listed

LP-6P-15W
15W plug-in driver, 120V, AC input, 15V, 1Amp output; with six foot (72") power cord to polarized 2-prong AC plug and 60" lead wire to hub; includes 6-port hub and inline linear dimmer with 58" lead wire, cUL/us Listed



DESCRIPTION

LEDs mounted to Flexible Printed Circuit Board with 4.3 watts per foot brightness. Minimal fixture profile of just 2.0mm (3/32") high by 10mm (13/32") wide. Field cuttable and reconnectable every 4". Safe, Class 2 remote LED Drivers power up to 20 ft. of product in a single run. Dimmable. Easy mounting with 3M tape pre-applied to back of fixture. Offered in six LED colors. ETL Listed for Indoor Use only.

APPLICATIONS

- ▶ Under Cabinet Task Light
- ▶ Work Stations
- ▶ Over Cabinet Accent Light
- ▶ Covers
- ▶ Soffits
- ▶ Interior Rails
- ▶ Visual Merchandising
- ▶ Exhibit Projects

ORDERING LOGIC

LTP-XX-YY

XX = STRIP LENGTH

- 10 = 10 ft.
- 19.3 = 19 ft., 4 in.
- 20 = 20 ft. Spool

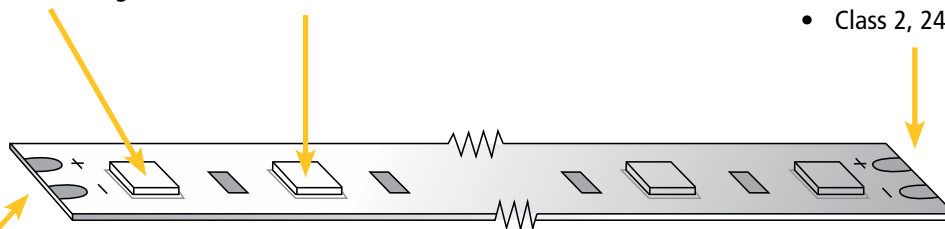
YY = COLOR

- WW = Warm White (3000K)
- CW = Cool White (6000K)
- BL = Blue
- RD = Red
- GR = Green
- AM = Amber

Note: When ordering cut lengths, orders are rounded to the nearest foot

FEATURES

- 4.3 watts per foot
- Dimmable
- Only 3/32" (2.0 mm) high
- Available in 6 LED colors: Warm White, Cool White, Red, Blue, Green and Amber
- Cuts and reassembles every 4"
- Class 2, 24VDC input



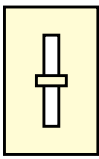
- Only 13/32" (10.0 mm) wide

20 ft. max. single run

- 3M mounting tape pre-applied



Suitable for
• Indoor dry use only



SPECIFICATIONS

	Cool White (3000K)	Warm White (6000K)	Amber, Red, Blue, Green
Electrical Rating	4.3 watts/ft, 180mA, 24VDC		
Maximum Single Run	20 Feet		
Cutability	Every 4" at mark		
LED Spacing	Every 5/8", five LEDs per 4" section		
Average LED Life	35,000 hours at 70% illumination		
Mounting Surface	Dry indoor only		
Lumen Output	325 Lumens per ft	285 Lumens per ft	
Efficacy	75 Lumens per watt	66 Lumens per watt	
Temperature Limits	40F to 90F surface temp. range		
Dimming	Dimmable with magnetic analog dimmer and correct LED Driver		
Agency Approval	ETL listed Indoor Dry locations		
Warranty	Two years. See back cover for details.		

PHOTOMETRICS ON PAGE 54, 55

LED COLOR OPTIONS



Warm White (3000K)



Cool White (6000K)



Amber



Red



Blue



Green

PURCHASE OPTIONS



20 ft. Spools



Custom cuts every 4" to 20 ft. max.

LED DRIVER OPTIONS

DIMMABLE



24VDC, 20-96W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. feet	Max. feet
TR24L20DC	1.6	45
TR24L40DC	4	9
TR24L60DC	7	14
TR24L96DC	11	20

ACCESSORIES



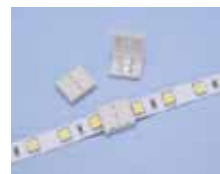
Power Cord, 6 ft
LTP-001-6R
Power Cord, 12 ft
LTP-001-12R



Power Cord Opposite End,
6 ft, LTP-001-6L
Power Cord Opposite End,
12 ft, LTP-001-12L



Step Cord, 2 in
LTP-STP-2IN
Step Cord, 6 in
LTP-STP-6IN
Step Cord, 2 ft
LTP-STP-2
Step Cord, 12 ft
LTP-STP-12



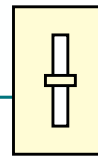
In-Line Connector
LTP-002



Plastic Mounting Channel,
4 ft
Predrilled with Screws
LTP-010-S



Terminal Block and
Junction Box
LMSII-001
For connection to
additional lengths of
power cable if needed



Flexible rail illumination



DESCRIPTION

LEDs mounted to Flexible Printed Circuit Board technology, and extruded in a 6mm x 12mm PVC light strip. Crush proof to 100 psi. LEDs consume only 0.96 watts per foot. Field cuttable every 6" and reconnectable with user installed male and female connectors. Optional molded "+", "T", "L" and wire "Flex" connections are available. Safe, Class 2 LED Drivers power up to 90 feet of product in a single run. ETL listed for indoor and outdoor applications. Offered in six LED colors.

APPLICATIONS

- ▶ Coves
- ▶ Stairs
- ▶ Rails
- ▶ Decks
- ▶ Soffits
- ▶ Eaves
- ▶ Visual Merchandising
- ▶ Exhibit Projects
- ▶ Theatrical Projects

ORDERING LOGIC

LES-XX-YY

XX = STRIP LENGTH

10 = 10 ft.
24 = 24 ft.
90 = 90 ft.

YY = COLOR

WW = Warm White RD = Red
CW = Cool White GR = Green
BL = Blue AM = Amber

Note: When ordering cut lengths, orders are rounded to the nearest foot

SPECIFICATIONS

Voltage	24VDC
Energy Usage	0.96 watts per foot
LED Life	LEDs rated at 40,000 hours
LED Colors	Warm White, Cool White, Blue, Red, Green, Amber
LED Color Temperature	Warm White = 3000K +/- 200K, Cool White = 5800K +/- 200K
LED Spacing	1" on center
Profile	1/4" x 1/2" (6 mm x 12 mm), height x width
Max. Single Run	90 feet
Max. Mounting Surface Temp.	- 40F to +104F
Cuttability	Field cuttable every 6"
Connections	User installed male and female connectors. Molded "+", "T", "L" and wire "Flex" connectors. Molded extension cords. Indoor listed CL2 cords allow wire to be passed through cabinets and walls to/between fixtures. Outdoor listed burial cords allow wire to be routed below grade to/between fixtures. See instructions for details.
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL Listed for indoor and outdoor applications
Warranty	Two years. See back cover for details.

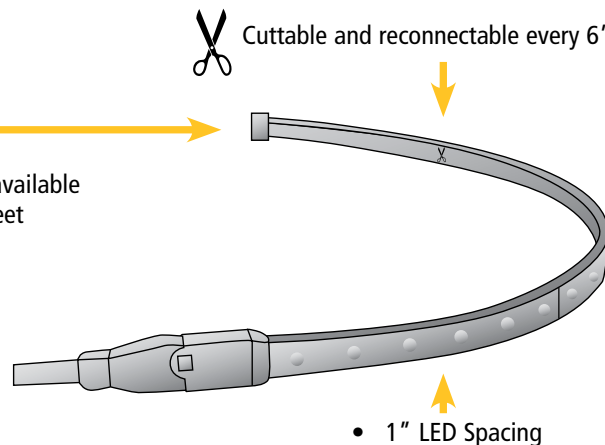
COLOR OPTIONS



Amber, Red, Green, Blue, Cool White, Warm White

FEATURES

- Available in: Warm White, Cool White, Blue, Red, Green, Amber
- "+", "T", "L" and wire "Flex" connectors available
- Maximum single run of 90 feet
- 0.96 watts per foot
- Safe 24VDC Class 2 power supplies
- Dimmable
- CL2 and burial cords



In-Line Connector

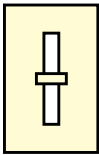


- 1/4" x 1/2" PVC (6mm x 12mm) covering flexible printed circuit board



Suitable for

- Indoor and outdoor applications



ACCESSORIES Inside applications (CL2 wire allows through wall wiring)



6' Power Cord
LES-001-6CL



12' Power Cord
LES-001-12CL



2' Step Cord
LES-STP-2CL



12' Step Cord
LES-STP-12CL



Flex Cord
LES-FLEX-CL



6' Power Cord
LES-001-6BR



12' Power Cord
LES-001-12BR



2' Step Cord
LES-STP-2BR



12' Step Cord
LES-STP-12BR



Flex Cord
LES-FLEX-BR



In-Line Connector
LES-002
(2 per bag)



Push-On End Cap
LES-003-2
(2 per bag)



Molded End Cap
LES-003-3
(2 per bag)



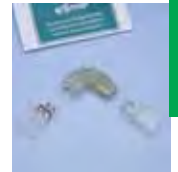
Molded "T"
Connector
Bottom Feed
LES-BFTD



Molded "T"
Connector
Left/right Feed
LES-BFTR



Molded "+"
Connector
LES-BFXN

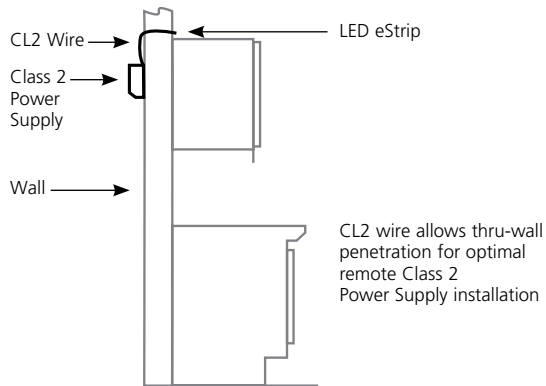


Molded "L"
Connector
LES-BFLN

Note: All molded connectors ship with required male or female fittings to attach to LED eStrip.

PHOTOMETRICS ON PAGE 55

LED eStrip Cabinet Wiring



ACCESSORIES



LMSII-001
Terminal Block and
Junction Box for
connection to
additional lengths of
power cable if needed

MOUNTING OPTIONS



Nail Clips
LES-005
(30 per bag)

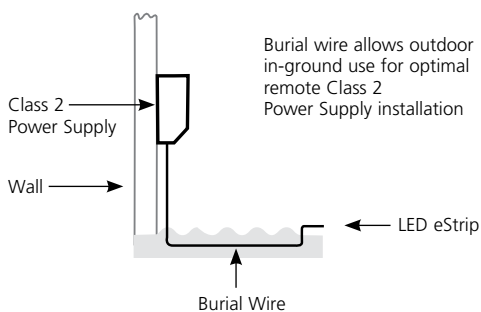


Saddle Mount
with Tie Wraps
LES-008
(30 per bag)



4' Plastic Mounting
Channel
LES-010
LES-010-S:
pre-drilled with screws
LES-010-T:
with double-sided tape

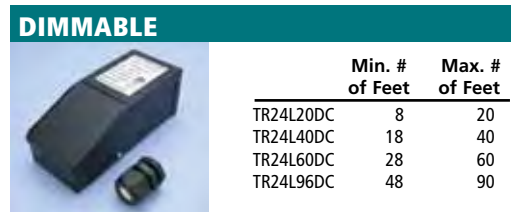
LED eStrip Burial Wiring



LED DRIVER OPTIONS

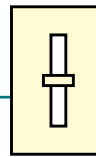


LES-24-65W, 24VDC, 65W,
Class 2, Indoor only, plug-in
Includes LED eStrip molded connector on
secondary cord. No power cord required.
4.5" x 2.1" x 1.5"
1 - 65 Feet



24VDC, 20-96W, Class 2,
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of Feet	Max. # of Feet
TR24L20DC	8	20
TR24L40DC	18	40
TR24L60DC	28	60
TR24L96DC	48	90



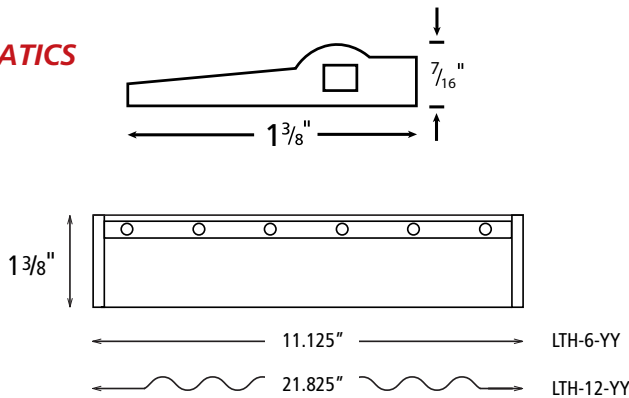
APPLICATIONS

- ▶ Under Counter
- ▶ Work Stations
- ▶ Display Cases
- ▶ Cabinet Interiors
- ▶ Podiums
- ▶ Consoles

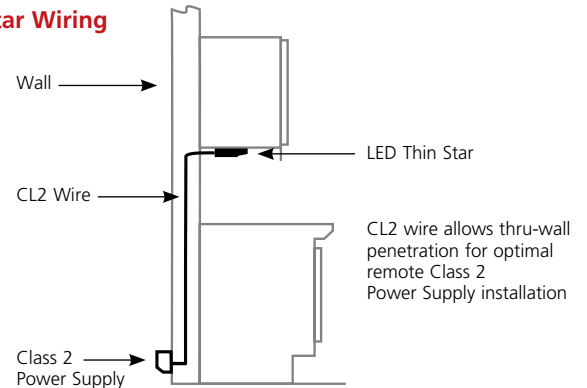
DESCRIPTION

Elegant, low profile LED under cabinet light fixture. Fixture vertical profile of only 7/16" for cabinets with little reveal. Available in four finishes of white, bronze, aluminum and black. Two fixture sizes of 6 LEDs and 12 LEDs per fixture. System scalable to a maximum combination of fixtures of 60 LEDs total per single run. Molded accessories provide 'plug-and-play' installation. System is dimmable with the appropriate LED Magnetic power supply and dimmer. ETL listed for indoor applications.

SCHEMATICS



LED Thin Star Wiring



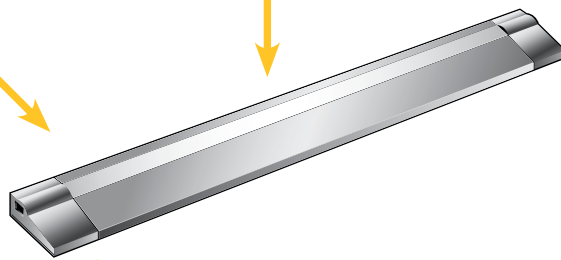
FEATURES

- Low energy usage of 3.2w and 6.4w
- Pleasingly warm color temperature of 3000K
- Max. fixtures per LED Driver
 - 5 pcs of 12-LED fixtures
 - 10 pcs of 6-LED fixture
- Dimmable
- Mini USB connectors

- 7/16" low profile

- Fixture Colors: White, Bronze, Aluminum, Black
- Easy wiring with pre-molded extension cords and joiner sections
- Safe 24 Volt, Class 2 power supply (ordered separately)

- Easy mounting with either double-sided tape or wood screws



Fixture Joiner

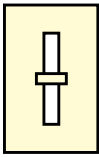


Mini USB Connector on all cords



Suitable for

- Surface mounted indoor applications



SPECIFICATIONS

Voltage	24VDC
Wattage	6 LED = 3.2 watts, 12 LED = 6.4 watts
LED Life	LEDs rated at 40,000 hours
LED Color Temperature	3,000K +/- 200K
Fixture Finish	White, bronze, aluminum, black
Fixture Length	6 LED = 11.125", 12 LED = 21.825"
Mounting	Included double-sided tape and wood screws
Connection	Indoor listed SPT-1 cords allow wire to pass through cabinets with access, but not walls. Indoor listed CL2 cords allow wire to be passed through cabinets and walls to/between fixtures. See instructions for details.
Extension Cords	Male/male: 1.5', 3', 6'. Maximum 91' total of extension cords per driver
Joiner	0.875" after installation
Cord Colors	White, Brown, Black
Joiner Colors	White, Brown, Black, Aluminum
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL Listed for indoor applications
Warranty	Three years. See back cover for details.

PHOTOMETRICS ON PAGE 54

ORDERING LOGIC

LTH-X-YY

X = NUMBER OF LEDS

6, 12

YY = FIXTURE FINISH

WH = White
BZ = Bronze
AL = Aluminum
BK = Black

FIXTURE FINISH OPTIONS



White finish



Bronze finish



Aluminum finish



Black finish

ACCESSORY



Terminal Block and Junction Box
LMSII-001
for connection to additional lengths of power cable if needed

ACCESSORIES



6' Power Cord
LTH-001-6WH (white)
LTH-001-6BN (brown)
LTH-001-6BK (black)
LTH-001-6CL (CL2)



12' Power Cord
LTH-001-12WH (white)
LTH-001-12BN (brown)
LTH-001-12BK (black)
LTH-001-12CL (CL2)



1.5' Male-to-Male Cord
Connects fixture-to-fixture
LTHMM-1.5-WH (white)
LTHMM-1.5-BN (brown)
LTHMM-1.5-BK (black)
LTHMM-1.5-CL (CL2)



3' Male-to-Male Cord
Connects fixture-to-fixture
LTHMM-3-WH (white)
LTHMM-3-BN (brown)
LTHMM-3-BK (black)
LTHMM-3-CL (CL2)



6' Male-to-Male Cord
Connects fixture-to-fixture
LTHMM-6-WH (white)
LTHMM-6-BN (brown)
LTHMM-6-BK (black)
LTHMM-6-CL (CL2)

ACCESSORIES



Fixture Joiner
LTH-JOIN-WH (white)
LTH-JOIN-BN (brown)
LTH-JOIN-AL (aluminum)
LTH-JOIN-BK (black)



Wire Screw Clips
WSC-004
(30 per bag)

LED DRIVER OPTIONS

NON DIMMABLE



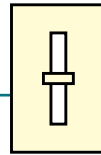
LTH-24-65W
24VDC, 65W, Class 2
Indoor only, plug-in
Includes LED Thin Star molded connector on secondary cord. No power cord required.
4.5" x 2.1" x 1.5" 6 - 60 LEDs

DIMMABLE



24VDC, 20-40W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of LEDs	Max. # of LEDs
TR24L20DC	18	30
TR24L40DC	36	60



*Twice as bright
as Xenon*

APPLICATIONS

- ▶ Under-cabinet task light
- ▶ Work stations
- ▶ Over-cabinet accent light
- ▶ Laboratories
- ▶ Display cases and exhibits
- ▶ Merchandising
- ▶ Indirect accent light
- ▶ Wall units and bars

DESCRIPTION

Completely self-contained under counter light fixture with replaceable 120VDC LED Modules included. Dimmable. Twice the light output as Xenon/Halogen technology with 72% energy savings. 120VAC in and out up to 150 replaceable LED Modules per 15A tap. Numerous contractor preferred 1/2" knockouts in each fixture. Offered in five sizes and four fixture finishes. UL Listed Damp Location.

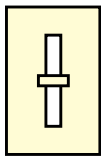
FEATURES

- Replaceable 120VDC LED Modules
- Twice the light output of Xenon/Halogen technology
- Pleasingly warm color temperature of 3100K
- Dimmable
- Captive screw mounting
- Energy usage from 5.2 to 26.0 watts per fixture
- Maximum of 150 LED Modules per 120VAC, 15AMP circuit
- New low-profile lens release
- Light, efficient aluminum frame stamped for 120V hard wire input
- Available in 4 colors: Aluminum, Black, Bronze, and White
- Available in five fixture lengths
- Numerous 1/2" knockouts
- Long life rectifier included. No integral LED driver required
- 120VAC in and out of fixture
- Uses standard household Romex™ wire input/output
- Push-in connectors included for ease of power input



Suitable for

- Indoor and Damp Locations



DIMMABLE!

LED TASK STAR

SPECIFICATIONS

Voltage	120VAC input
Energy Usage	1 module = 5.2 watts, 2 module = 10.4 watts, 3 module = 15.6 watts, 4 module = 20.8 watts, 5 module = 26 watts
LED Color Temperature	3100K +/- 200K
LED Module Life	Replaceable 120VDC LED Module rated at 40,000 hours
Fixture Finish	White or black powder coating; bronze, or natural aluminum
Construction	Aluminum extruded frame with injection molded ends for low fixture weight and consistency of finish.
Lens	Frosted glass for even light distribution. Hinged to aluminum frame for ease of fixture installation and security. Low-profile lens release.
Wiring Options	Hardwire can be parallel wired ("daisy chained") up to 150 LED Modules.
Dimming	Dimmable with specified 120VAC dimmer. See instructions for details.
Agency Approval	UL listed and labeled. Damp location.
Warranty	Three years. See back cover for details.

**PHOTOMETRICS
ON PAGE 54**

FIXTURE FINISH OPTIONS



White



Bronze



Black



Aluminum



Replaceable LED Module
LEDMOD-32-FF

FIXTURE LENGTHS



1 Module = 9"



2 Module = 17.5"



3 Module = 26"



4 Module = 34.5"



5 Module = 38.5"

ORDERING LOGIC

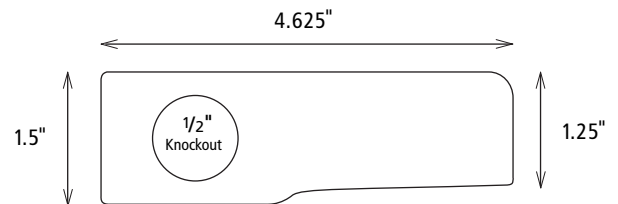
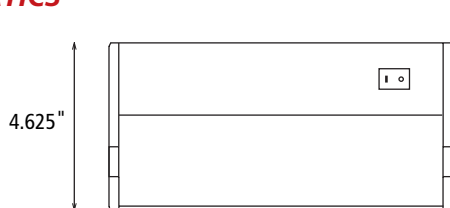
LTS-Z-XX/YY

**Z = NUMBER OF
LED MODULES**
1, 2, 3, 4, 5

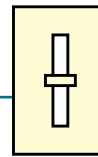
XX = TYPE
HW = Hard Wire

YY = FIXTURE FINISH
WH = White BK = Black
BZ = Bronze AL = Aluminum

SCHEMATICS



← 9" →	LTS-1-XX/YY	One LED Module LED Task Star
← 17.5" →	LTS-2-XX/YY	Two LED Module LED Task Star
← 26" →	LTS-3-XX/YY	Three LED Module LED Task Star
← 34.5" →	LTS-4-XX/YY	Four LED Module LED Task Star
← 38.5" →	LTS-5-XX/YY	Five LED Module LED Task Star



*3 Light cabinet application Bronze finish
Only 10.5 watts total*

APPLICATIONS

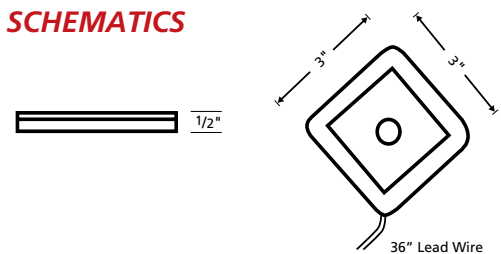
- ▶ Under cabinets
- ▶ Cabinets
- ▶ Shelves
- ▶ Display cases
- ▶ Work stations

DESCRIPTION

Ultra thin 3.26 watt LED under cabinet light fixture. Energy savings of 82% vs. Xenon/Halogen technology. Fixture circuitry allows expandable system design from 1 to 25 fixtures per remote power supply. 24VDC replaceable module included. Four fixture finishes of white, bronze, aluminum and black. Dimmable.

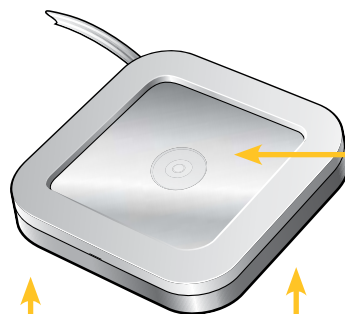


SCHEMATICS



FEATURES

- No custom cords to buy or hide.
- Optional CL2 lead wire to terminal block connectors. CL2 wire is listed to allow wall penetration. See instructions.



- Energy usage of only 3.26 watts per fixture

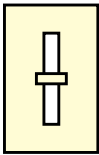
- Slim Profile**
- Ultra thin 1/2" fixture profile
 - Available in four fixture finishes: White, Bronze, Aluminum, Black

- The same light output of Xenon/Halogen technology
- Pleasingly warm color temperature of 3000K
- Replaceable 24VDC LED Module rated at 40,000 hours



Suitable for

- Damp Location



DIMMABLE!

LED MINI STAR II

**PHOTOMETRICS
ON PAGE 57**

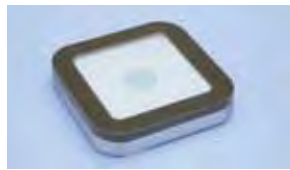
SPECIFICATIONS

Voltage	24VDC
Fixture Energy Rating	24VDC, 135mA, 3.26 watts
LED Color Temperature	3000K +/-200K
LED Module Life	Replaceable 24VDC LED Module rated at 40,000 hours
Construction	Die cast aluminum base. Injection molded plastic covers. Frosted tempered glass lens.
Cover Finish	White, Bronze, Aluminum, Black
Base Finish	Aluminum
Wiring Options	Individual fixtures can be mixed and matched up to 25 fixtures per driver. Each fixture ships with 36" of lead wire.
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL listed and labeled for all under-cabinet and in-cabinet applications. Damp Location.
Warranty	Three years. See back cover for details.

FIXTURE COLOR OPTIONS



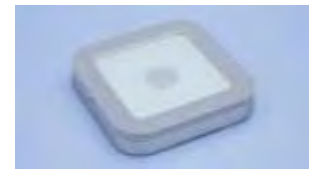
White



Bronze



Black



Aluminum

ORDERING LOGIC LMSII-Z-YY

Z = FIXTURE TYPE

F = Individual Fixture

YY = FIXTURE FINISH

WH = White

BK = Black

BZ = Bronze

AL = Aluminum

EACH FIXTURE INCLUDES:

(1) LED Mini Star II light fixture with 36" lead wire and mounting hardware

(1) Junction Box with Terminal Block
(3) Wire screw clips

LED DRIVER OPTIONS

NON DIMMABLE



LMS-24-60W
24VDC, 60W, Class 2
Indoor only, plug-in
Includes terminal block/
junction box for fixture
lead wire connection.
4.5" x 2.1" x 1.5"
1 - 10 fixtures



LEDDR-24-120W
120W Driver, Class 2
11.6" x 3.6" x 2.25"
1-18 fixtures
(2 runs of 9 fixtures maximum)
See page 58 for details.

DIMMABLE

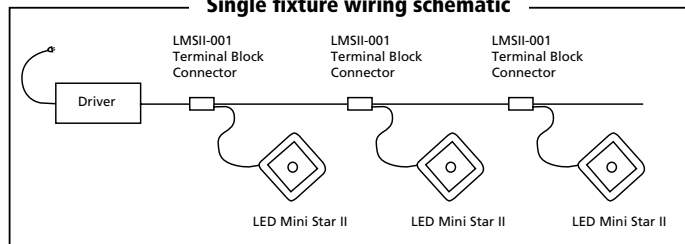


24VDC, 20-96W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of Fixtures	Max. # of Fixtures
TR24L20DC	2	5
TR24L40DC	4	10
TR24L60DC	8	15
TR24L96DC	14	25

WIRING

Single fixture wiring schematic



LMSII-001
Terminal Block and Junction Box

Note:

- ▶ All lead wire can be cut to exact lengths
- ▶ No custom cords to buy/stock
- ▶ No excess cord to hide

ACCESSORIES



LED Module
LEDMOD-24-LP
Replaceable 24VDC LED Module



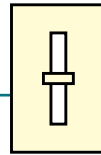
Terminal Block and Junction Box
LMSII-001
Single fixture wiring only



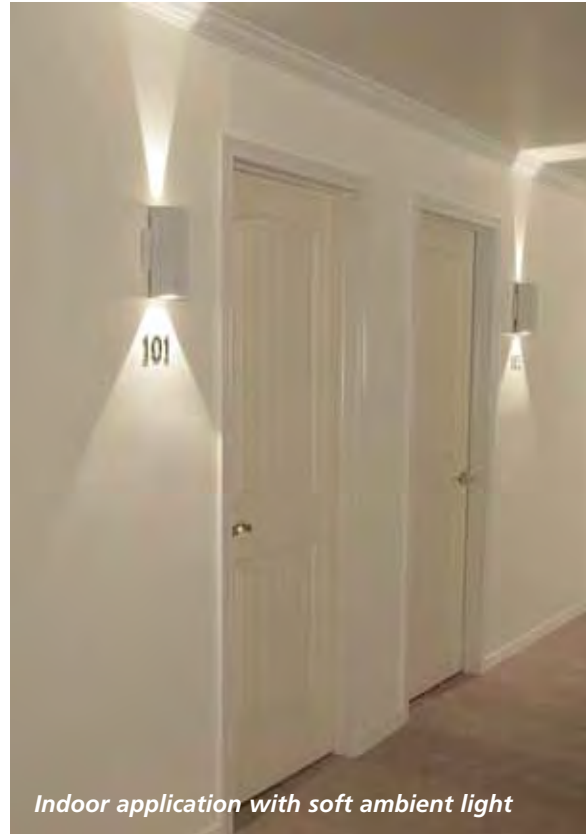
Wire Screw Clips
WSC-004
(30 per bag)



Lead Wire
LW-18G-CL2



Outdoor application with minimal ambient light



Indoor application with soft ambient light

DESCRIPTION

Completely self-contained die cast aluminum wall mount fixture of only 10.4 watts with replaceable 120VDC LED Modules included. Dimmable. Energy savings of 72% vs. Xenon/Halogen technology. 120VAC input and output of up to 75 fixtures per 15A tap. Two light sources per fixture (up and down lighting), each with two different sized openings. Unplugging one module allows one light source option. Offered in four fixture finish colors.

APPLICATIONS

- ▶ Hallways
- ▶ Stairs
- ▶ Entryways
- ▶ Doorways
- ▶ Garages
- ▶ Porches
- ▶ Walkways
- ▶ Lobbies
- ▶ Columns
- ▶ Directional Accents
- ▶ Architectural Accents

FEATURES

- Replaceable 120VDC LED Modules
- Pleasingly warm color temperature of 3100K
- Removal of one module does not affect illumination of remaining module
- Mounts to a standard 4" x 4" junction box
- Uses standard household Romex™ wire input/output

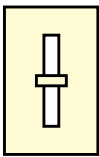


- Energy usage of 10.4 watts per fixture (5.2 watts per Module)
- Maximum of 75 fixtures per 120VAC, 15A circuit
- Dimmable

- Powder coated die cast aluminum construction
- 4 color options: White, Bronze, Aluminum, Black



Suitable for
• Wet Location



DIMMABLE!

LED SCONCE STAR

SPECIFICATIONS

Voltage	120VAC
Fixture Energy Rating	Both modules 120VAC, 95mA, 10.4 watts. One module 120VAC, 50mA, 5.2 watts.
LED Color Temperature	3100K +/- 200K
Average LED Module Life	Replaceable 120VDC LED Module rated at 40,000 hours
Fixture Finish	Powder coated white, black, aluminum and bronze
Construction	Fixture is die cast aluminum for low fixture weight and corrosion protection. Junction box cover is stamped steel.
Lens	Tempered glass
Wiring Options	120VAC can be parallel wired ("daisy chained") up to 75 fixtures maximum per circuit. Check local code and NEC for wiring selection.
Dimming	Dimmable with specified 120VAC dimmer. See instructions for details.
Agency Approval	UL Listed and labeled wet location. Wall mount only.
Warranty	Two years. See back cover for details.

FIXTURE COLOR OPTIONS



White



Bronze



Aluminum



Black

ACCESSORIES



Replaceable LED Module
LEDMOD-32-FF

ORDERING LOGIC

LSS-XX-YY

XX = LED COLOR

WW = Warm White

YY = FIXTURE FINISH

WH = White

BZ = Bronze

BK = Black

AL = Aluminum

ONE LED MODULE CAN BE UNPOWERED

For applications requiring light in the up or down direction only.

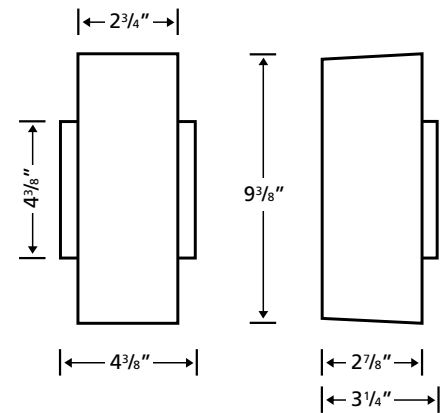


Both modules powered



One module powered

SCHEMATICS



LIGHT OUTPUT FLEXIBILITY

Each fixture has a narrow and a wide opening on opposite fixture ends. Fixtures are symmetrical and mounting can be accomplished with either opening pointing up or down.

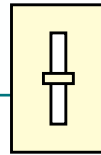


Narrow Opening
7/16" W x 1-5/8" H



Wide Opening
1-3/16" W x 1-5/8" H

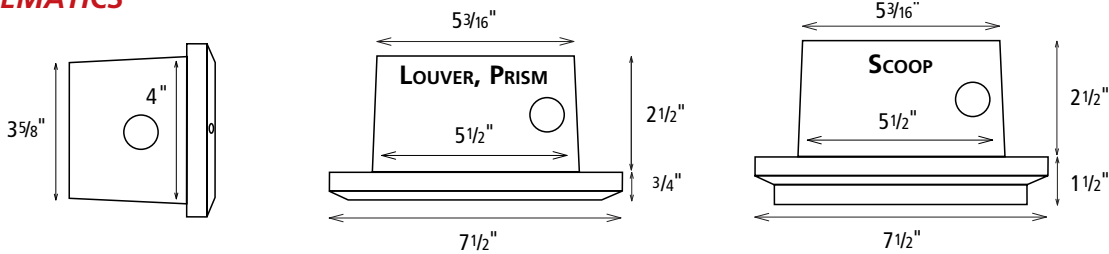
**PHOTOMETRICS
ON PAGE 57**



DESCRIPTION

Die cast aluminum wall mount LED step light fixture of only 5.2 watts. 72% energy savings vs. Xenon/Halogen technologies. Replaceable 120VDC LED Module included. Dimmable. 120VAC input and output of fixture up to 150 fixtures per 15A tap. UL listed Wet Location for all interior and exterior wall, ceiling, and concrete pour applications. Offered in three cover styles and four fixture finishes.

SCHEMATICS



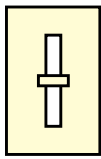
FEATURES

- 120V Power Input
- Low 5.2 watts per fixture energy usage
- Up to 150 fixtures per 120VAC tap
- Dimmable
- Frosted glass lens
- Each fixture ships complete with can and cover
- Die cast aluminum can and cover; suitable for concrete pour
- 3 cover designs: Louver, Prism and Scoop
- 4 cover color options: White, Bronze, Black or Aluminum
- 120VDC replaceable LED Module
- No integral LED Driver required
- 120V push-in connectors included for ease of power input
- Numerous 1/2" NPT fittings for standard Romex™ wire input
- Suitable for:
 - Wet locations
 - Insulation contact
 - Wall and ceiling mount
 - Showers
 - Use in poured concrete



Suitable for

- Wet locations
- Insulation contact
- Wall and ceiling mount
- Showers
- Use in poured concrete



DIMMABLE!

LED STEP STAR

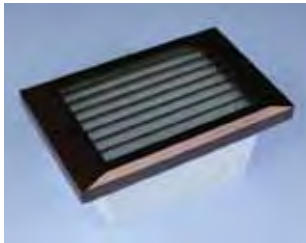
SPECIFICATIONS

Voltage	120VAC
Fixture Energy Rating	120VAC, 43mA, 5.2 watts
LED Module Life	Replaceable 120VDC LED Module rated at 40,000 hours
LED Color Temperature	3100K +/- 200K
Cover Finish	White, bronze, aluminum, black
Can Finish	White with aluminum reflector
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish.
Lens	Frosted tempered glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 150 fixtures per tap. Check local code and NEC for wiring selection
Dimming	Dimmable with specified 120VAC dimmer. See instructions for details.
Agency Approval	UL listed Wet Location for all interior and exterior wall, ceiling, and concrete pour applications.
Warranty	Two years. See back cover for details.

APPLICATIONS

- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Ceilings
- ▶ Showers

COVER OPTIONS



Louver Cover



Prism Cover



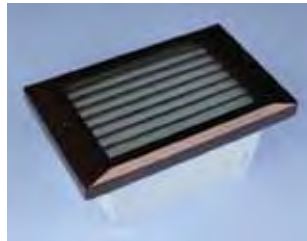
Scoop Cover

PHOTOMETRICS ON PAGE 56

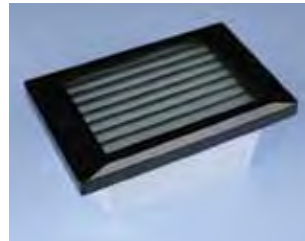
COVER COLOR OPTIONS



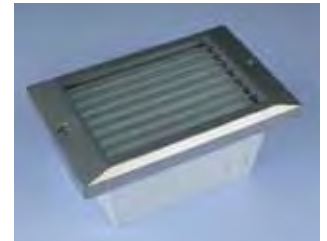
White



Bronze



Black



Aluminum

ORDERING LOGIC

LST-Z-XX-YY

Z = FIXTURE TYPE

- L = Louver Cover
- S = Scoop Cover
- P = Prism Cover

XX = LED COLOR

WH = White

YY = FIXTURE FINISH

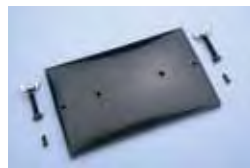
- WH = White
- BZ = Bronze
- BK = Black
- AL = Aluminum

ACCESSORIES

Concrete Cap - direct pour mounting!



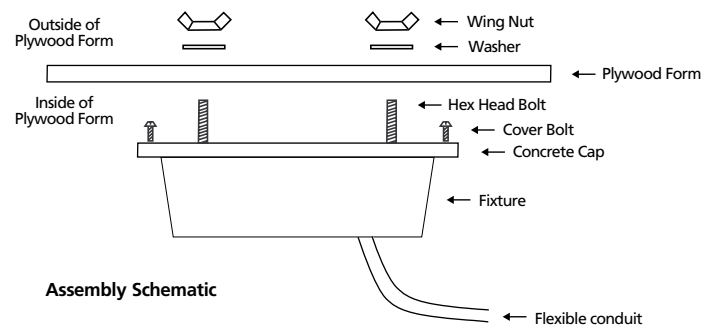
Replaceable LED Module
LEDMOD-32-FF

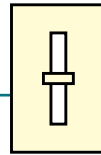


SL-CC
Step Star Concrete Cap
Required for all concrete pour and brick wall applications



Concrete Cap
installed in fixture

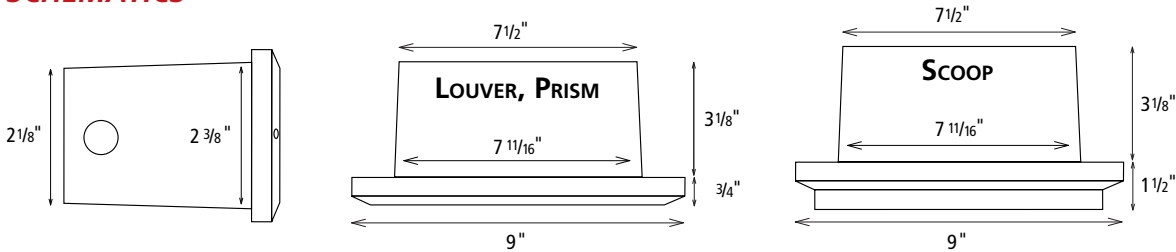




DESCRIPTION

Die cast aluminum wall mount LED light fixture fits standard brick void and consumes only 5.2 watts. 72% energy savings vs. Xenon/ Halogen technologies. Dimmable. 120VAC input and output of fixture up to 150 fixtures per 15A tap. Replaceable 120VDC LED Module included. UL listed Wet Location for all interior and exterior wall, ceiling and concrete pour applications. Offered in three cover styles and five fixture finishes, including Stainless Steel Louver Cover with fluorocarbon lacquer coated aluminum can.

SCHEMATICS



PHOTOMETRICS ON PAGE 56

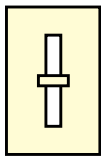
FEATURES

- 120V Power Input
- Low 5.2 watts per fixture energy usage
- Up to 150 fixtures per 120VAC tap
- Dimmable
- Frosted glass lens
- Each fixture ships complete with can and cover
- Die cast aluminum can and cover; suitable for concrete pour
- 3 cover designs: Louver, Prism and Scoop
- 5 cover color options: White, Bronze, Black, Aluminum or Stainless Steel (Louver cover only)
- 120VDC replaceable LED Module
- No integral LED Driver required
- Pleasingly warm color temperature of 3100K
- 120V push-in connectors included for ease of power input
- Numerous 1/2" NPT fittings for standard Romex™ wire input



Suitable for

- Wet locations
- Insulation contact
- Wall and ceiling mount
- Showers
- Use in poured concrete



DIMMABLE!

LED BRICK STAR

SPECIFICATIONS

Voltage	120VAC
Fixture Energy Rating	120VAC, 43mA, 5.2 watts
LED Module Life	Replaceable 120VDC LED Module rated at 40,000 hours
LED Color Temperature	3100K +/- 200K
Cover Finish	White, bronze, aluminum, black or stainless steel
Can Finish	White with aluminum reflector
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish. New Stainless Steel Louver option.
Lens	Frosted tempered glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 150 fixtures per tap. Check local code and NEC for wiring selection
Dimming	Dimmable with specified 120VAC dimmer. See instructions for details.
Agency Approval	UL listed wet location for all interior and exterior wall, ceiling and concrete pour applications.
Warranty	Two years powder coated finish, 3 years stainless steel finish. See back cover for details.

APPLICATIONS

- ▶ Brick walls
- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Ceilings
- ▶ Showers

COVER OPTIONS



Louver Cover



Prism Cover



Scoop Cover



Stainless Steel Louver Cover
Recommended for use in corrosive environments as salt air, adjacent bodies of water, or installed in caustic materials such as limestone. Three year warranty.

COVER COLOR OPTIONS



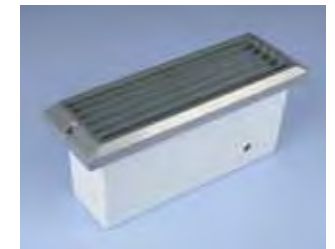
White



Bronze



Black



Aluminum

ORDERING LOGIC

LBR-Z-XX-YY

Z = FIXTURE TYPE

- L = Louver Cover
- S = Scoop Cover
- P = Prism Cover

XX = LED COLOR

WH = White

YY = FIXTURE FINISH

- WH = White
- BZ = Bronze
- BK = Black
- AL = Aluminum
- SS = Stainless Steel (Louver only)

ACCESSORIES

Concrete Cap - direct pour mounting!



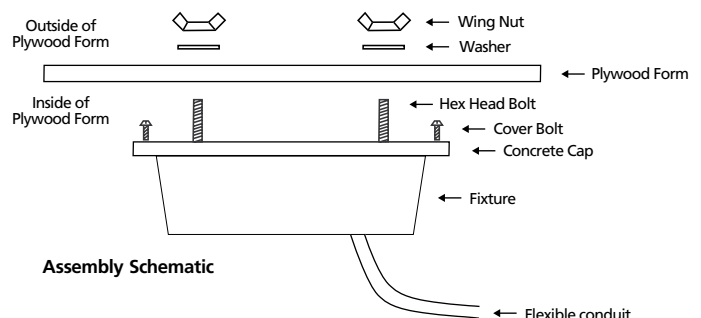
Replaceable LED Module
LEDMOD-32-FF

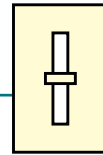


BL-CC
Brick Star Concrete Cap
Required for all concrete pour and brick wall applications



Concrete Cap
installed in fixture



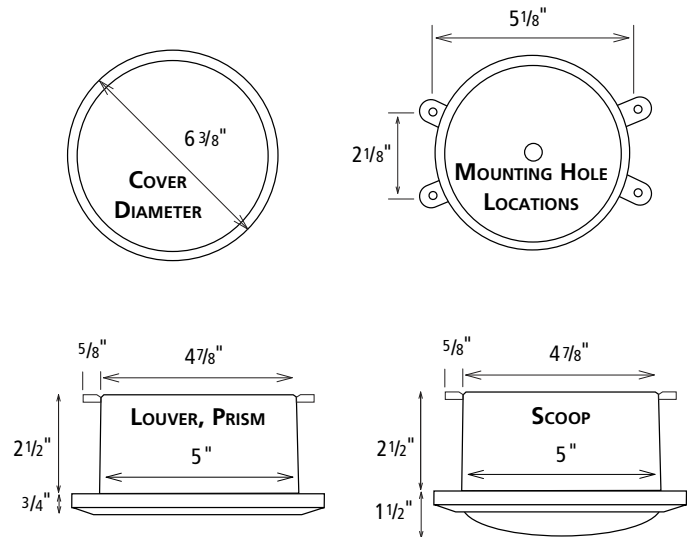


Recessed, White Prism Cover

DESCRIPTION

Die cast aluminum surface or recessed mount LED light fixture of only 5.2 watts. Dimmable. 120VAC input and output of fixture up to 150 fixtures per 15A tap. Replaceable 120VDC LED module included. UL listed Wet Location. Offered in three cover styles and four fixture finishes.

SCHEMATICS



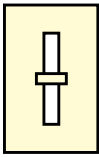
FEATURES

- Replaceable 120VDC LED Module
- Pleasingly warm color temperature of 3100K
- Dimmable
- Die cast aluminum cover and can. Corrosion resistant powder coating. Suitable for concrete pour.
- Three cover designs: Louver, Prism and Scoop
- Four cover color options: White, Black, Bronze or Aluminum
- Mounting flange for recessed mounting
- Can be surface mounted or recessed into any hole 5" diameter and 3" deep
- LED Wall Star has "Knock-off" tabs for surface mounting
- Room for 120V interconnection
- Numerous 120V 1/2" NPT fittings for standard Romex™ input
- Push-In 120V connectors (no wire nuts required)
- Suitable for
 - Wet locations
 - Insulation contact
 - Wall mount
 - Showers
 - Use in poured concrete



Suitable for

- Wet locations
- Insulation contact
- Wall mount
- Showers
- Use in poured concrete



DIMMABLE!

SPECIFICATIONS

Voltage	120VAC power input.
Fixture Energy Rating	120VAC, 43mA, 5.2 watts
LED Module Life	Replaceable 120VDC LED Module rated at 40,000 hours
LED Color Temperature	3100K +/- 200K
Cover Finish	Powder-coated white, black, bronze, or natural aluminum
Can Finish	Powder-coated white with white reflector
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish
Lens	Frosted glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 150 fixtures per 15A tap. One wire between each fixture completes chain. No custom cord required. Check local code and NEC for wiring selection.
Dimming	Dimmable with specified 120VAC dimmer. See instructions for details.
Agency Approval	UL listed and labeled wet and IC locations. Wall or surface mount only. Suitable for concrete pour.
Warranty	Two years. See back cover for details.

**PHOTOMETRICS
ON PAGE 56**

COVER OPTIONS



Louver



Scoop



Prism

APPLICATIONS

- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Showers

FIXTURE COLOR OPTIONS



White



Bronze



Black



Aluminum

ORDERING LOGIC

LWS-Z-YY

Z = COVER TYPE

L = Louver Cover
 S = Scoop Cover
 P = Prism Cover

YY = FIXTURE COLOR

WH = White
 BZ = Bronze
 BK = Black
 AL = Aluminum

Note:

All fixtures have the flexibility to be recessed or surface mounted

MOUNTING OPTIONS



Recessed



Surface mount

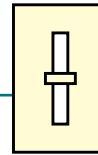
ACCESSORIES



Wall Star Concrete Cap
 WL-CC
 Required for all concrete pour and brick wall applications.



Replaceable LED Module
 LEDMOD-32-FF



NEW PRODUCT!



Indoor step application

DESCRIPTION

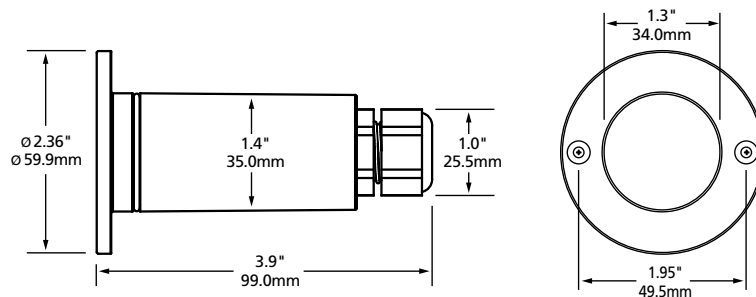
LED Disc Light is a robust fixture suitable for in-ground, ceiling or wall mount applications. The 3 watt LED package delivers a surprising amount of light making it ideal as an up light for shrubs and small trees. Certified for wet burial applications, LED Disc Light makes an excellent paver light for public areas, decks, driveways and patios. Our concrete form makes concrete pour applications simple and fast.

APPLICATIONS

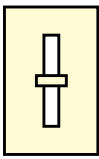
- ▶ Steps
- ▶ Direction Lighting
- ▶ Merchandising
- ▶ Aisles
- ▶ Information Lighting
- ▶ Landscape Accents
- ▶ Paths
- ▶ Decorative Lighting

FEATURES

- Dimmable on the primary power supply side with our new Dimmable LED Drivers!
- Long life – 50,000 hours
- Low power consumption of 3 watts per fixture
- Safe 12 volt, Class 2 power supply (not included)
- Up to 18 fixtures per power supply
- cUL listed for in-wall, in-floor, outdoor wet, and outdoor burial applications
- Rugged 316L Stainless Steel construction



- Fits in any 1.5" diameter hole, 4" long
- No UV, no infrared, no radiated heat
- No mercury



DIMMABLE!

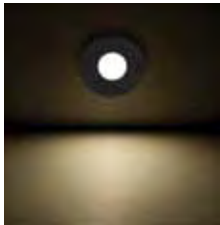
LED DISC LIGHT

SPECIFICATIONS

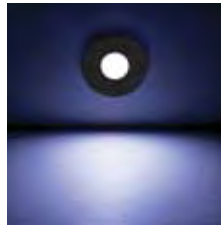
Voltage	12VDC
Fixture Energy Rating	3 Watts
LED Color Temperature	Warm White 2700K +/-200K, Cool White 5500K +/-200K
LED Life	Rated at 50,000 hours
Cover Finish	316L Stainless Steel
Barrel Finish	316L Stainless Steel
Lens	Frosted or Clear Tempered Glass
Wiring Options	Fixtures can be parallel wired or "Daisy chained" together with up to 18 fixtures on our largest driver. See adjacent driver chart for details. NOTE: Use LW-18G-CL2 for all in-wall applications. Use LW-18G-BUR for all burial applications.
Dimming	See instructions for details.
Agency Approval	cUL listed and labeled for wet, IC, ceiling, wall and direct burial applications.
Warranty	See back cover for details.

**PHOTOMETRICS
ON PAGE 57**

LED COLOR OPTIONS



Warm White LE
2700K



Cool White LED
5500K

ORDERING LOGIC

LEDD-Y-XX

Y = TEMPERED GLASS

F = Frosted

C = Clear

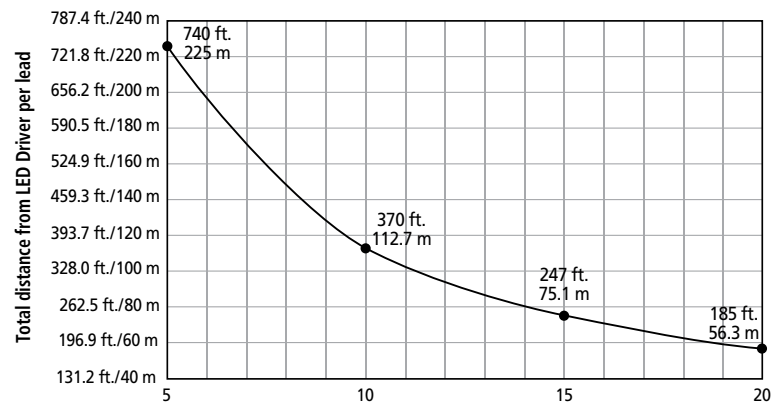
XX = COLOR OF LED

WH = White

WW = Warm White

100% LED LIGHT OUTPUT CHART

With every foot of lead wire and every light fixture, there is voltage loss. With too much voltage loss all light fixtures will not develop 100% of their potential output. To the right is a chart of acceptable voltage loss which will maintain 100% of the potential light output of the LED Disc Light. Simply plot the number of LED Disc Light you wish to place on one lead on the horizontal axis, with the total distance from the LED Driver to the last LED Disc Light on the vertical axis. If the resulting plot is at or below the line shown, you will have acceptable voltage loss and your LED Disc Light will output 100% of their potential.



NOTE: No more than 18 LED Disc Lights per LEDDR-12-60W.

LED DRIVER OPTIONS

NON DIMMABLE



LEDDR-12-60W
Outdoor driver
Max. 18 LED Disc Lights
60W hardware
Input: 100 - 240V AC
Output: 12V DC
See page 58 for details

DIMMABLE



Input: 120V AC
Output: 12V DC
See page 58 for details

	Min. # of Fixtures	Max. # of Fixtures
TR12L20DC	3	6
TR12L40DC	6	12
TR12L60DC	10	18

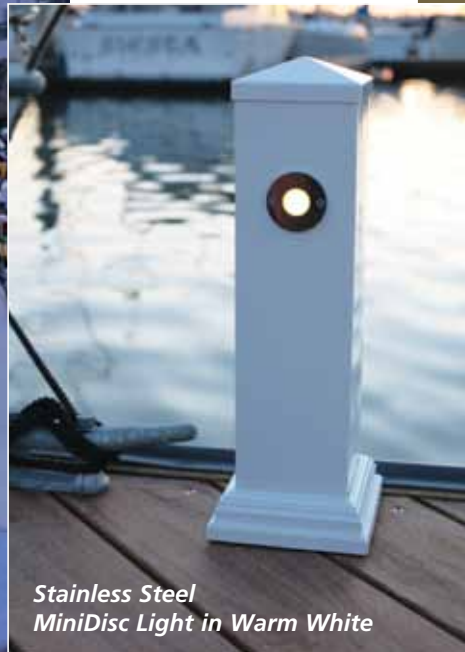
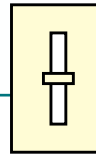
ACCESSORIES



LEDD-CF
LED Disc Light
concrete form
for concrete pour
applications

LED MINI DISC LIGHT

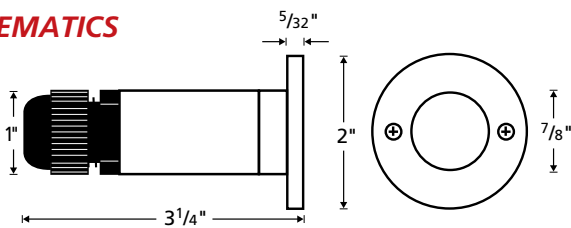
DIMMABLE!



DESCRIPTION

Die cast aluminum, or stainless steel, recessed mini LED accent fixture with prism cover design. Low .24Watts LED provides 80% energy savings vs. Xenon/Halogen technology. Dimmable. Fixture circuitry allows expandable system design from 1 to 100 fixtures per appropriate Class 2 LED driver. ETL listed for in-wall, in-floor, outdoor wet and outdoor burial applications. Offered in six LED colors and five fixture finishes.

SCHEMATICS

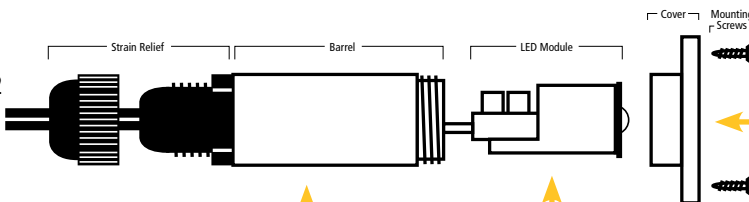


APPLICATIONS

- ▶ Steps
- ▶ Aisles
- ▶ Paths
- ▶ Direction Lighting
- ▶ Information Lighting
- ▶ Decorative Lighting
- ▶ Merchandising
- ▶ Landscape Accents

FEATURES

- Safe 12 volt, Class 2 power supply (remote)
- Up to 200 fixtures per power supply
- Dimmable
- Rugged 316L Stainless Steel construction for harsh environments
- Aluminum construction standard



- Fits in any 1" diameter hole, 3-1/2" long

LED Module

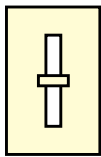
- Low energy requirements of .24Watts per fixture
- 6 LED colors: Warm White, Cool White, Green, Blue, Red, Amber

5 Fixture Finishes:
Aluminum, Black, White, Bronze or Stainless Steel (Prism cover only)



Suitable for

- In wall applications
- In floor applications
- Outdoor wet locations
- Outdoor burial locations



DIMMABLE!

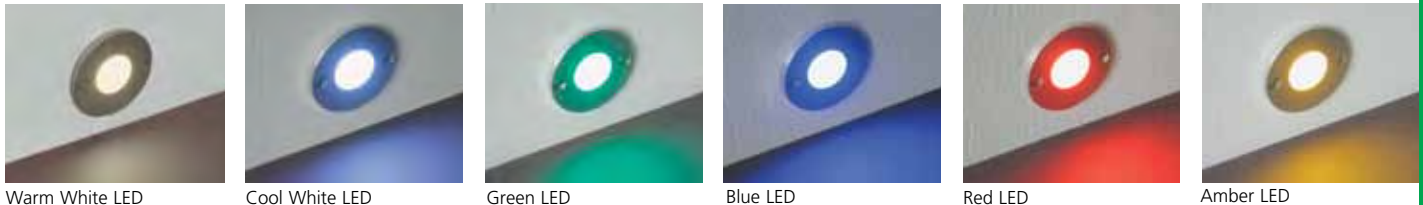
LED MiniDisc LIGHT

**PHOTOMETRICS
ON PAGE 57**

SPECIFICATIONS

Voltage	12VDC
Fixture Energy Rating	12VDC, 20mA, .24Watts
LED Color Temperature	Warm White 2900K +/-200K, Cool White 5400K +/-200K
LED Life	Rated at 40,000 hours
LED Colors	Warm White, Cool White, Green, Blue, Red, Amber
Cover Finish	Aluminum, White, Bronze, Black, Optional 316L Stainless Steel
Barrel Finish	Aluminum, White, Bronze, Black, Optional 316L Stainless Steel
Construction	Both cover and barrel are die cast aluminum for corrosion protection, strength, weight, and consistency of finish.
Lens	Frosted Tempered Glass
Wiring Options	Up to 100 MiniDisc Lights per LED Driver by parallel wiring ("daisy chain") between fixtures. One wire completes chain. No custom cord required. NOTE: Use LW-18G-CL2 for all in-wall applications. Use LW-18G-BUR for all outdoor and burial applications.
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL listed and labeled for wet, IC, ceiling, and direct burial applications.
Warranty	Two years aluminum or powder coated finish, 3 years stainless steel finish. See back cover for details.

LED COLOR OPTIONS



Warm White LED

Cool White LED

Green LED

Blue LED

Red LED

Amber LED

COVER FINISH OPTIONS



Powder Coat - Aluminum



Powder Coat - Bronze



Powder Coat - White



Powder Coat - Black



Stainless Steel
Recommended for use in corrosive environments as salt air, adjacent bodies of water, or installed in caustic materials such as limestone. Three year warranty.

ORDERING LOGIC

LEDMD-XX-YY

XX = LED COLOR

WW = Warm White

CW = Cool White

BL = Blue

GR = Green

AM = Amber

RD = Red

YY = FIXTURE FINISH

AL = Aluminum

BZ = Bronze

WH = White

BK = Black

SS = 316L

Stainless Steel

ACCESSORIES

Wiring and LED drivers



Outdoor Lead Wire
LW-18G-BUR
For all burial applications. Required to assure water tight connection in fixture strain relief guard.



Indoor Lead Wire
LW-18G-CL2
For all in-wall applications



NON DIMMABLE
LEDDR-12-60W
12VDC, 60W, Class 2
10.25" x 3" x 2"
1-100 fixtures
See page 58 for details.



DIMMABLE
12VDC, 20-60W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of Fixtures	Max. # of Fixtures
TR12L20DC	4	64
TR12L40DC	30	120
TR12L60DC	50	200

Concrete Form - Available for concrete pour and brick/stone applications



LED MiniDisc Concrete Form
LEDMD-CF
5.25"H x 2"DIA



Concrete form, before LED MiniDisc is installed



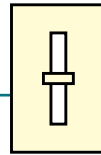
Concrete form, after LED MiniDisc is installed and operating



Concrete form fits over most 1/2" conduit junction boxes for easy wire installation/removal

LED MINI DISC SCOOP LIGHT

DIMMABLE!



LED MiniDisc Scoop Light in Cool White



LED MiniDisc Scoop Light in Amber

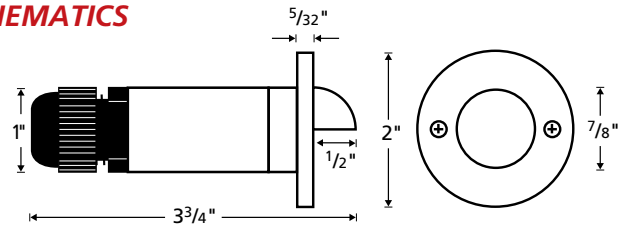
DESCRIPTION

Die cast aluminum recessed mini LED accent fixture with scoop cover design. Low .24Watts LED provides 80% energy savings vs. Xenon/Halogen technology. Dimmable. Fixture circuitry allows expandable system design from 1 to 100 fixtures per appropriate Class 2 LED driver. ETL listed for in-wall, in-floor, outdoor wet and outdoor burial applications. Offered in six LED colors and four fixture finishes.

APPLICATIONS

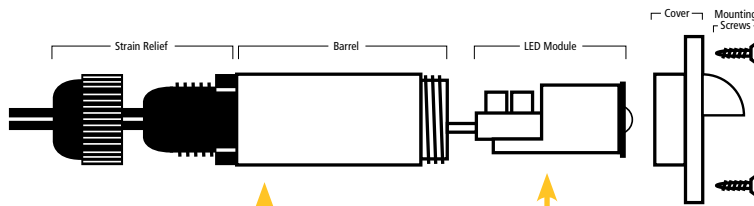
- ▶ Steps
- ▶ Aisles
- ▶ Paths
- ▶ Direction Lighting
- ▶ Decorative Lighting
- ▶ Merchandising
- ▶ Landscape Accents

SCHEMATICS



FEATURES

- Safe 12 volt, Class 2 power supply (remote)
- Up to 200 fixtures per power supply
- Dimmable



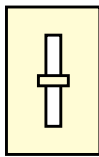
• Fits in any 1" diameter hole, 3-1/2" long

- LED Module
- Low energy requirements of .24Watts per fixture
 - 6 LED colors: Warm White, Cool White, Green, Blue, Red, Amber

4 powder coated cover colors:
Aluminum, Black, White, Bronze



- Suitable for
- In wall applications
 - In floor applications
 - Outdoor wet locations
 - Outdoor burial locations



DIMMABLE!

LED MiniDisc Scoop Light

SPECIFICATIONS

Voltage	12VDC
Fixture Energy Rating	12VDC, 20mA, .24Watts
LED Color Temperature	Warm White 2900K +/-200K, Cool White 5400K +/-200K
LED Life	Rated at 40,000 hours
LED Colors	Warm White, Cool White, Green, Blue, Red, Amber
Cover Finish	Aluminum, White, Bronze, Black
Barrel Finish	Aluminum, White, Bronze, Black
Construction	Both cover and barrel are die cast aluminum for corrosion protection, strength, weight, and consistency of finish.
Lens	Frosted Tempered Glass
Wiring Options	Up to 100 MiniDisc Lights per LED Driver by parallel wiring ("daisy chain") between fixtures. One wire completes chain. No custom cord required. NOTE: Use LW-18G-CL2 for all in-wall applications. Use LW-18G-BUR for all outdoor and burial applications.
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL listed and labeled for wet, IC, ceiling, and direct burial applications.
Warranty	Two years. See back cover for details.

**PHOTOMETRICS
ON PAGE 57**

LED COLOR OPTIONS



Warm White LED

Cool White LED

Green LED

Blue LED

Red LED

Amber LED

COVER FINISH OPTIONS



Powder Coat - Aluminum

Powder Coat - Bronze

Powder Coat - White

Powder Coat - Black

ORDERING LOGIC

LEDMDS-XX-YY

XX = LED COLOR

WW = Warm White
CW = Cool White
BL = Blue

GR = Green
AM = Amber
RD = Red

YY = FIXTURE FINISH

AL = Aluminum
BZ = Bronze
WH = White
BK = Black

ACCESSORIES

Wiring and LED drivers



Outdoor Lead Wire
LW-18G-BUR
For all burial applications. Required to assure water tight connection in fixture strain relief guard.



Indoor Lead Wire
LW-18G-CL2
For all in-wall applications

LED DRIVER OPTIONS

NON DIMMABLE



LEDDR-12-60W
12VDC, 60W, Class 2
10.25" L x 3" W x 2" H
1-100 fixtures
See page 58 for details.

DIMMABLE



12VDC, 20-60W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of Fixtures	Max. # of Fixtures
TR12L20DC	4	64
TR12L40DC	30	120
TR12L60DC	50	200

Concrete Form - Available for concrete pour and brick/stone applications



LED MiniDisc Concrete Form
LEDMD-CF
5.25" H x 2" DIA



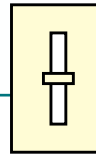
Concrete form, before LED MiniDisc is installed



Concrete form, after LED MiniDisc is installed and operating



Concrete form fits over most 1/2" conduit junction boxes for easy wire installation/removal



36 LED Surface Star Lights in Trellis Application

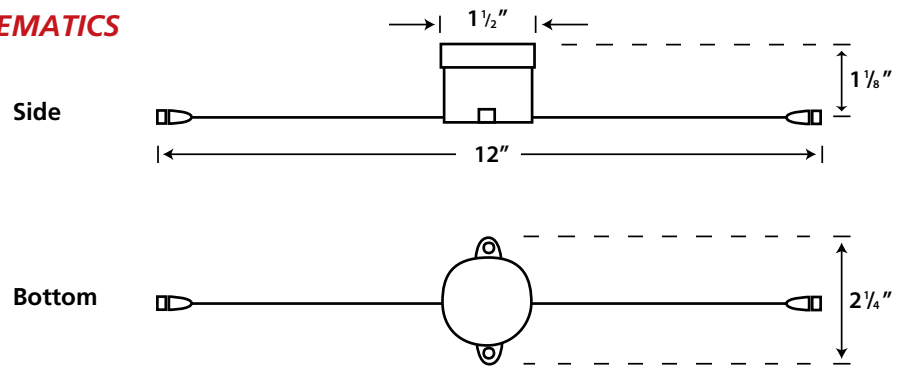
DESCRIPTION

Die cast aluminum 1.2 watt surface mounted mini LED accent fixture. 80% energy savings vs. Xenon/Halogen technology. Dimmable. Fixture circuitry allows expandable system design from 1 to 45 fixtures per appropriate LED driver with Class 2 safety and 'plug-and-play' pre-molded extension cords. ETL listed Wet Location. Offered in five LED colors and four fixture finishes.

APPLICATIONS

- ▶ Handrails
- ▶ Cabinets
- ▶ Decks
- ▶ Gazebos
- ▶ Trellis
- ▶ Posts
- ▶ Architectural Accents
- ▶ Landscape Accents
- ▶ Merchandising

SCHEMATICS

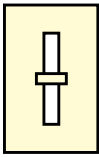


FEATURES

- Safe 12 volt, Class 2 power supply (remote)
- Up to 45 fixtures per LED Driver
- Easy wiring with pre-molded extension cords
- Low 1.2W energy usage
- Compact 1.5" diameter by 1.125" high design
- 5 LED Colors: White, Green, Blue, Red, Amber
- 4 Fixture finishes: White, Bronze, Aluminum, Black



Suitable for
 • Indoor and Outdoor applications



DIMMABLE!

LED SURFACE STAR

SPECIFICATIONS

Voltage	12VDC
Fixture Energy Rating	12VDC, 100mA, 1.2 watts
LED Color Temperature	3800K +/-200K
LED Life	Rated at 40,000 hours
LED Colors	White, Green, Blue, Red, Amber
Finish	White, Bronze, Aluminum, Black
Construction	Die cast aluminum for corrosion protection, strength, weight, and consistency of finish.
Lens	Clear Tempered Glass
Wiring Options	Up to 45 LED Surface Stars per LED Driver.
Dimming	Dimmable with appropriate LED Magnetic Power Supply and dimmer. See instructions for details.
Agency Approval	ETL listed and labeled for surface mounted wall, ceiling, cabinet, under-cabinet, and wet locations.
Warranty	Two years. See back cover for details.

**PHOTOMETRICS
ON PAGE 57**

LED COLOR OPTIONS



White LED



Green LED



Blue LED



Red LED



Amber LED

FIXTURE FINISH OPTIONS



White finish



Bronze finish



Aluminum finish



Black finish

ORDERING LOGIC

LEDSS-XX-YY

XX = LED COLOR

WH = White	RD = Red
GR = Green	AM = Amber
BL = Blue	

YY = FIXTURE FINISH

WH = White	BK = Black
BZ = Bronze	AL = Aluminum

ACCESSORIES



Extension Cords
Use between LED Driver and first fixture, or fixture-to-fixture. Available in three colors and seven lengths. See price list for model numbers.



Wire Screw Clips
WSC-004
(30 per bag)

LED DRIVER OPTIONS



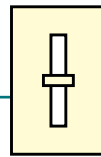
NON DIMMABLE
LEDDR-12-60W
12VDC, 60W, Class 2
10.25"L x 3"W x 2"H
1-45 fixtures
See page 58 for details.



DIMMABLE
12VDC, 20-60W, Class 2
5.6" x 2" x 2.14" or
6.55" x 2.25" x 2.55"
See page 58 for details.

	Min. # of Fixtures	Max. # of Fixtures
TR12L20DC	7	14
TR12L40DC	13	25
TR12L60DC	23	45

LED PRODUCTS



LED Brite Strip festoon bulb
in a cove

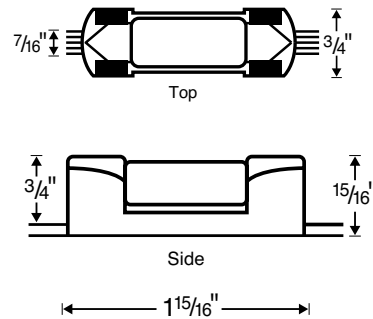
APPLICATIONS

- ▶ Ceiling coves
- ▶ Wall coves
- ▶ Display cases
- ▶ Under cabinet lighting
- ▶ Shelf lighting
- ▶ Sign backlighting
- ▶ Architectural accents
- ▶ Decorative accents

DESCRIPTION

Flexible light strip featuring LED efficiency and field cutability. Molded festoon bulb sockets located at two, three and four bulbs per foot on listed 12AWG wire. Each socket accepts a 0.5 watt LED festoon bulb. Bulbs are rated at 40,000 hour life. Light strip is dimmable with 0.5 watt festoon bulbs powered by appropriate LED driver and dimming device. See instructions for complete specifications and installation details.

SCHEMATICS



FEATURES

Fixture Design

- Field cutable power strip for custom, hard to estimate applications
- Flexible design allows unlimited applications
- Parallel wiring means loss of a bulb does not affect remaining strip
- Listed 12 AWG wire
- Simple, safe, effective standard terminal block connector with Junction Box



Socket

- Pre-installed on wire for installation ease
- "Snap In" bulb socket design for ease of bulb replacement

Bulb

- Low 0.5 watts per LED festoon bulb
- Rated 40,000 hour LED life
- Festoon bulbs dim with appropriate LED driver and dimmer. See instructions.

Mounting

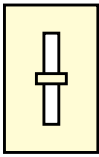
- Each socket ships complete with 3M double-sided mounting tape
- Optional nail clips for difficult mounting applications



Intertek

Suitable for

- Indoor dry locations



SPECIFICATIONS

Voltage 24VDC
LED Bulb Specifications 0.5W LED Festoon (dimnable)
LED Color Temperature Warm White 2600K +/-200K, Cool White 6000K +/-200K
LED Bulb Life Replaceable LED bulbs rated at 40,000 hours
Socket Spacing 1" between bulb sockets (4 bulbs per foot)
 2" between bulb sockets (3 bulbs per foot)
 4" between bulb sockets (2 bulbs per foot)
Socket Connection Horizontal individual sockets parallel wired to flat 12AWG power wire.
Wire and Socket Color White or black
Maximum Single Run LED Festoon Bulbs: 180 bulbs with LEDDR-24-120W non-dimmable driver, or 160 bulbs with TR24L96DC dimmable magnetic transformer.
Dimming 0.5W LED Festoon bulbs are dimmable with appropriate magnetic LED driver and dimmer. See instructions for details.
Agency Approval ETL listed for indoor and other dry location use
Warranty Two years. See back cover for details.

**PHOTOMETRICS
ON PAGE 55**

COLOR OPTIONS



Black/White

PURCHASE OPTIONS



2, 3, 4 Bulbs/Foot



Custom Cuts



100 ft. Spools

ORDERING LOGIC

LBL-Z-XXYY

Z = BULB SPACING

2 = 2 bulbs/foot
 3 = 3 bulbs/foot
 4 = 4 bulbs/foot

XX = STRIP LENGTH

Custom Length or
 100 = 100 foot spool

YY = LIGHT STRIP COLOR

WH = White
 BK = Black

Note: When ordering cut lengths, orders are rounded to the nearest foot

LED BULBS



LED Festoon Bulb
 LBL-24-.5WW
 LBL-24-.5CW
 (dimmable)

LED DRIVER OPTIONS



NON DIMMABLE
 LEDDR-24-120W
 24VDC, 120W, Class 2
 11.6" x 3.6" x 2.25"
 1-180 Bulbs
 See page 58 for details.



DIMMABLE
 24VDC, 20-96W, Class 2
 5.6" x 2" x 2.14" or
 6.55" x 2.25" x 2.55"
 See page 58 for details.

	Min. # of Bulbs	Max. # of Bulbs
TR24L20DC	16	32
TR24L40DC	30	60
TR24L60DC	50	100
TR24L96DC	80	160

ACCESSORIES



Assembly Kit
 (Required to ship with every cut)
 BL-001/WH White
 BL-001/BK Black
 Includes: Junction Box,
 Terminal Block and End cap
 2.2"L x 1.8"W x 1"H

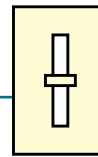


End Caps
 BL-003/WH
 BL-003/BK



Lead Wire
 LW-12G/WH
 LW-12G/BK

Note:
 For mounting options
 see page 28.



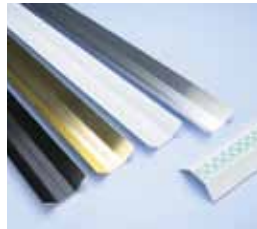
MOUNTING OPTIONS



Double Sided Tape
on every socket



Nail Clips
BL-005/BK Black
BL-005/WH White
12 Gauge Wire



Brite Strip Reflector
BLF-4-BA, BLF-4-PB,
BLF-4-GW, BLF-4-GB.
Sold in 4' lengths only.
Custom cutting for pieces
less than 4' available.



Brite Strip Fascia
BLFAS-4-BA, BLFAS-4-GW
Sold in 4' lengths only.
Custom cutting for pieces
less than 4' available.



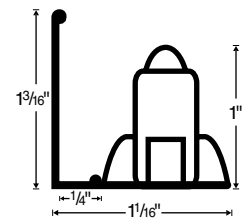
Cove Reflector
BLCOVE-4-GW
Sold in 4' lengths only.
Custom cutting for pieces
less than 4' available

BRITE STRIP™ FASCIA EXTRUSION



FEATURES

- ▶ Custom profile shields bulb glare while reflecting light toward work surface. Provides proper spacing between Brite Strip bulb and Fascia surface.
- ▶ Can be used as an accessory with LED eStrip.
- ▶ Sold in two colors: Aluminum and White
- ▶ Aluminum offers the greatest reflectivity.
- ▶ White acts like a primer to allow on-site custom paint matching with hi-temp paint.
- ▶ 3M double sided tape included with every section.
- ▶ Sold in 4 foot lengths only. Custom cuts for pieces less than 4 feet available.



BLFAS-4-XX

APPLICATIONS

- ▶ Cabinets
- ▶ Displays
- ▶ Work Stations
- ▶ Shelves
- ▶ Linear Task Lighting

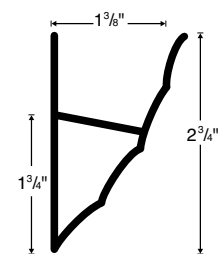
COVE REFLECTOR



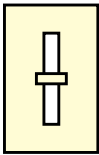
*Brite Strip in Cove Reflector
(Floor View)*

FEATURES

- ▶ An aluminum extrusion in the shape of a standard cove molding, with a white gloss mounting area for the illumination system.
- ▶ Can be used as an accessory with LED eStrip.
- ▶ Pre-engineered with appropriate bulb side clearances.
- ▶ Pre-primed in white for ease of wall match painting, and interior reflective qualities.
- ▶ Cove reflector can be used with Brite Strip or LED eStrip.
- ▶ Sold in 4 foot lengths only. Custom cutting for pieces less than 4 feet available.



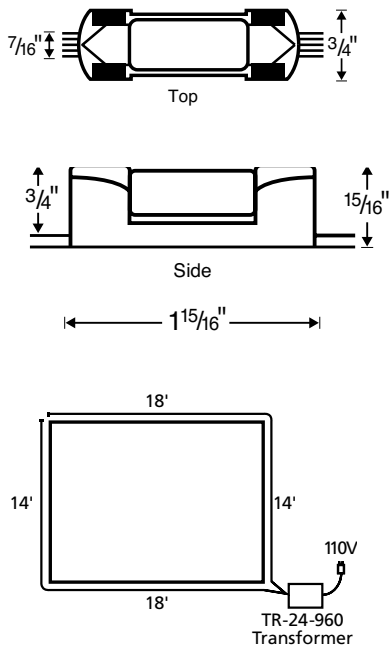
BLCOVE-4-GW



DESCRIPTION

Flexible light strip featuring field cutability and Xenon festoon, Incandescent festoon, and Halogen MR-11 bulb options. Molded festoon bulb sockets located at two, three and four bulbs per foot on listed 12AWG wire. All festoon bulbs are offered in either clear or frosted options. Xenon bulbs are rated at a 10,000 avg. bulb life. Light strip is dimmable with any bulb mentioned above and appropriate dimming device. See instructions for complete specifications and installation details.

SCHEMATICS



If you wish to do cove lighting around an 18' x 14' room, the efficient way to illuminate this area would be utilizing a 24V system (3 bulbs per foot) and 5 watt, possibly frosted bulbs. This would require 2 runs with only one TR-24-960 in the middle.

APPLICATIONS

- ▶ Ceiling coves
- ▶ Wall coves
- ▶ Display cases
- ▶ Under cabinet lighting
- ▶ Shelf lighting
- ▶ Sign backlighting
- ▶ Architectural accents
- ▶ Decorative accents

FEATURES

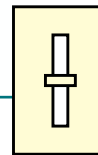
- Fixture Design**
- Field cuttable power strip for custom, hard to estimate applications
 - Flexible design allows unlimited applications
 - Parallel wiring means loss of a bulb does not affect remaining strip
 - Listed 12 AWG wire
 - Simple, safe, effective standard terminal block connector



- Mounting**
- Each socket ships complete with 3M sided double-mounting tape
 - Optional nail clips for difficult mounting applications
 - Fascia extrusion
 - Reflectors boost light output 50% at 16" cabinet-to-counter dimension

- Bulb**
- 5 watt or 10 watt festoon
 - Incandescent or Xenon
 - Clear or frosted
 - 12V or 24V
 - 20 watt MR-11s in 12V or 24V

- Socket**
- Pre-installed on wire for installation ease
 - "Snap In" bulb socket design for ease of bulb replacement



SPECIFICATIONS

Voltage	12V or 24V "Festoon" bulbs, and 12V or 24V MR11 Bulbs. Use "TR" or "TECLT" transformers. See instructions.
Bulb Specifications	5 watt and 10 watt Festoon incandescent or "Xenon" bulbs (12V or 24V), 20 watt MR11 bulbs (12V or 24V)
Average Bulb Life	10,000 hours (festoon); 2,500 hours (MR11)
Bulb Spacing	1" between bulb sockets (4 bulbs per foot) 2" between bulb sockets (3 bulbs per foot) 4" between bulb sockets (2 bulbs per foot)
Bulb Color	Clear or frosted (All types and voltages of festoon bulbs. Clear only for MR-11).
Bulb Connection	Horizontal individual sockets parallel wired to flat power wire
Wire and Socket Color	White or Black
Maximum Single Run	A maximum total of: 480 watts on a 24 volt system or 240 watts on a 12 volt system
Dimming	Dimmable. See instructions.
Agency Approval	ETL listed for indoor and other dry location use. Requires a listed transformer with secondary circuit protection not to exceed 20 amps.
Warranty	One year. See back cover for details.

**PHOTOMETRICS
ON PAGE 54**

COLOR OPTIONS



Black/white

PURCHASE OPTIONS



2, 3, 4 Bulbs/Foot



Custom Cuts



100 ft. Spools

ORDERING LOGIC

LBL-Z-XX/YY

Z = BULB SPACING

2 = 2 bulbs/foot
3 = 3 bulbs/foot
4 = 4 bulbs/foot

XX = STRIP LENGTH

Custom Length or
100 = 100 foot spool

YY = LIGHT STRIP COLOR

WH = White
BK = Black

Note: When ordering cut lengths, orders are rounded to the nearest foot

BULB OPTIONS



Brite Strip bulbs
See price list for product codes



20W MR-11 Bulbs
HMT-12-20W
HMT-24-20W



Use "TR" or "TECLT" transformers
See page 51 and instructions for transformer specification and installation details.



ACCESSORIES



Connector Assembly Kit
BL-001/WH, BL-001/BK
(Required to ship with every cut)
Includes Junction Box,
Terminal Block and End Cap.
2.2"L x 1.8"W x 1"H

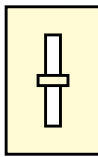


End Caps
BL-003/BK
BL-003/WH



BL-ADT Adapter
HMT-12-20W (12V MR11 Bulb)
HMT-24-20W (24V MR11 bulb)

Note:
For mounting options
see page 28.



DIMMABLE!

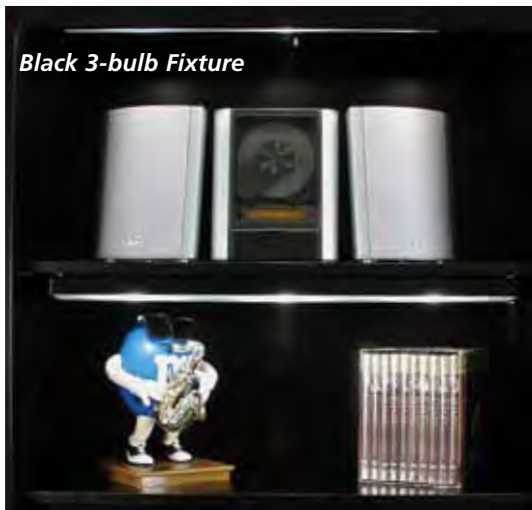
XENON TASK LIGHT

XENON PRODUCTS

White 4-bulb Fixture



Black 3-bulb Fixture



Bronze 4-bulb Fixture

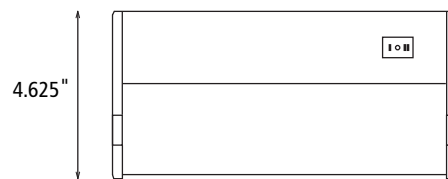
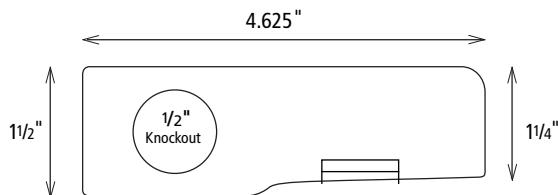


Aluminum 3-bulb Fixture

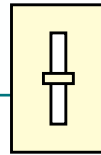
DESCRIPTION

Completely self-contained under counter light fixture with 10,000 hour average bulb life Xenon bulbs included. 120VAC in and out up to 66 bulbs. Numerous contractor preferred 1/2" knockouts in each fixture. Offered in five sizes and four fixture finishes. UL Listed Damp Location.

SCHEMATICS



- | | | |
|-----------|-------------|-----------------------------|
| ← 9" → | XTL-1-XX/YY | One Bulb Xenon Task Light |
| ← 17.5" → | XTL-2-XX/YY | Two Bulb Xenon Task Light |
| ← 26" → | XTL-3-XX/YY | Three Bulb Xenon Task Light |
| ← 34.5" → | XTL-4-XX/YY | Four Bulb Xenon Task Light |
| ← 38.5" → | XTL-5-XX/YY | Five Bulb Xenon Task Light |



SPECIFICATIONS

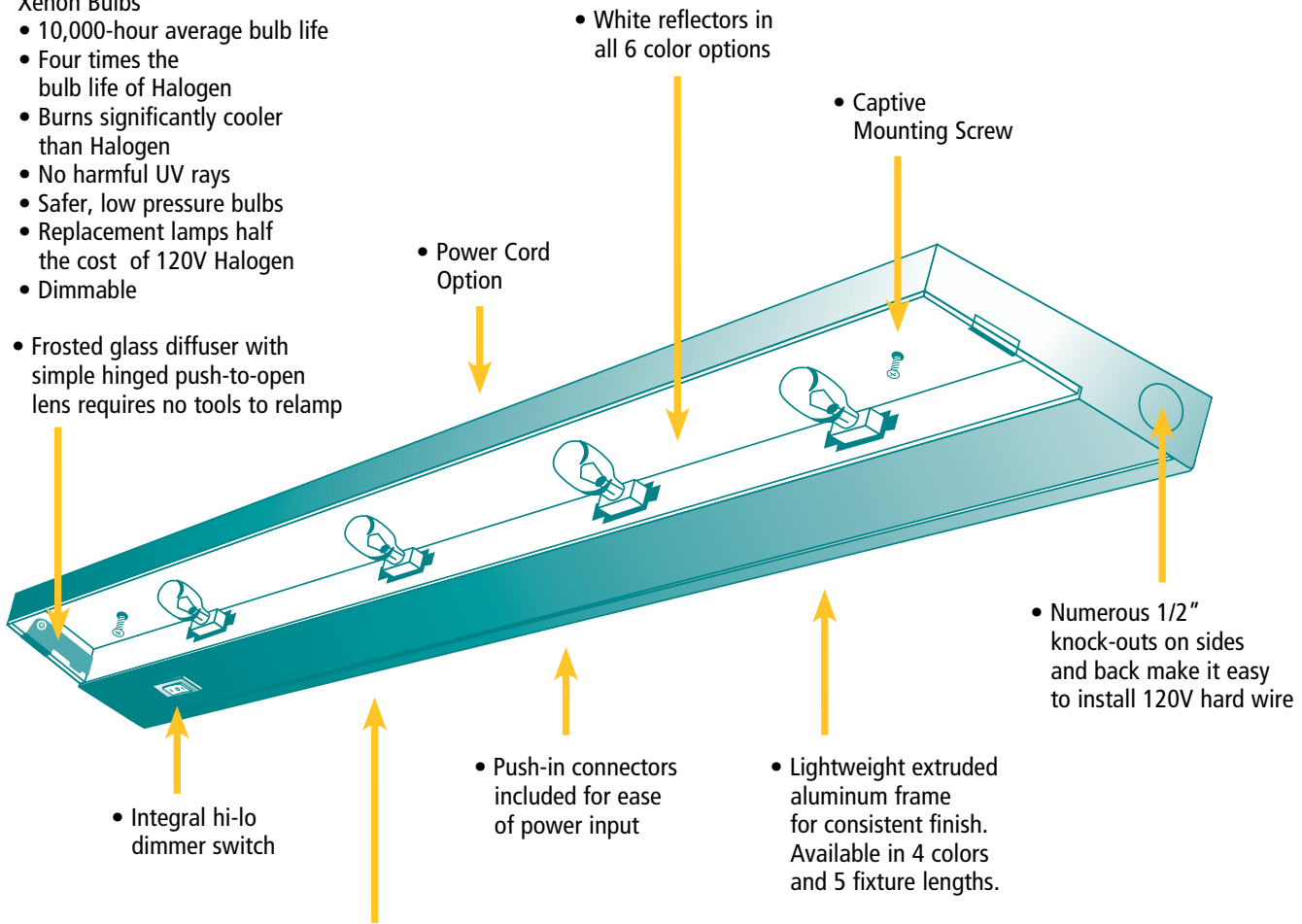
Voltage	120VAC input to fixture via hardwire or power cord. Integral 12V transformer per fixture
Bulb Specifications	18W wedge base Xenon (1-,2-, 3-, 4- or 5-bulb fixtures)
Average Bulb Life	10,000 hours
Color Temperature	2800K +/-200K
Fixture Finish	White or black powder coating; bronze anodized, or natural aluminum
Construction	Aluminum extruded frame with injection molded sides for weight efficiency and consistency of finish
Lens	Frosted glass. Hinged to aluminum frame.
Wiring Options	Hardwire or power cord options. Hardwire option can be parallel wired ("daisy chained") up to 1188 watts (66 bulbs). One wire between each fixture completes chain. No custom cord required. Check local code and NEC.
Dimming	Hi/Lo switch per fixture, or dims with standard electronic low voltage dimmer on primary.
Agency Approval	UL listed and labeled. Damp Location.
Warranty	One year. See back cover for details.

FEATURES

Xenon Bulbs

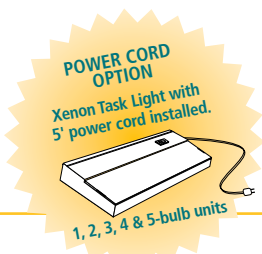
- 10,000-hour average bulb life
- Four times the bulb life of Halogen
- Burns significantly cooler than Halogen
- No harmful UV rays
- Safer, low pressure bulbs
- Replacement lamps half the cost of 120V Halogen
- Dimmable

- Frosted glass diffuser with simple hinged push-to-open lens requires no tools to relamp

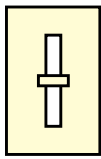


• Integral hi-lo dimmer switch

• Integral 12V electronic transformer in each fixture. Plus 120VAC input/output allows fixtures to be daisy chained up to 66 bulbs per 15A tap.



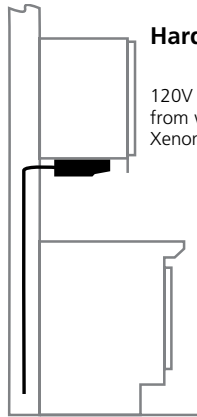
Suitable for Damp locations



DIMMABLE!

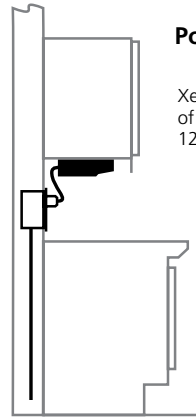
XENON TASK LIGHT

WIRING OPTIONS



Hardwire (HW)

120V Romex™ Wiring from wall direct to Xenon Task light



Power Cord (PC)

Xenon Task light has 60" of lamp cord. Plugs into 120V receptacle

APPLICATIONS

- ▶ Under-cabinet task light
- ▶ Work stations
- ▶ Over-cabinet accent light
- ▶ Laboratories
- ▶ Display cases and exhibits
- ▶ Merchandising
- ▶ Indirect accent light
- ▶ Wall units and bars

PHOTOMETRICS ON PAGE 54

FIXTURE LENGTH OPTIONS



1-Bulb unit 9"



2-Bulb unit 17.5"



3-Bulb unit 26"



4-Bulb unit 34.5"



5-Bulb unit 38.5"

FIXTURE COLOR OPTIONS



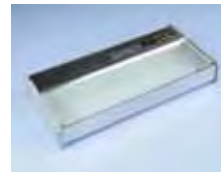
White



Bronze



Black



Aluminum

ORDERING LOGIC

XTL-Z-XX/YY

Z = NUMBER OF BULBS

1, 2, 3, 4, 5

XX = TYPE

HW = Hard Wire
PC = Power Cord

YY = FIXTURE FINISH

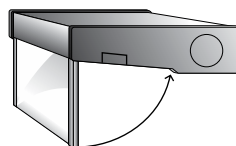
WH = White
BZ = Bronze
AL = Aluminum
BK = Black

ACCESSORIES

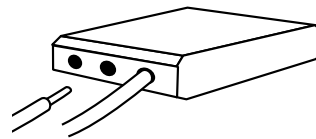


Replacement Bulb
XEN-12-18W Clear

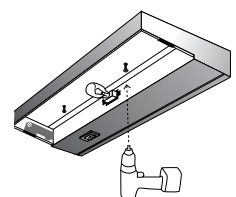
INSTALLATION AND OPERATIONAL FEATURES



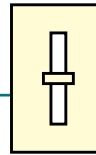
Easy-to-use hinged lens design



Push-in connector



Captive Mounting Screw



Bronze Prism Cover



Aluminum Scoop Cover

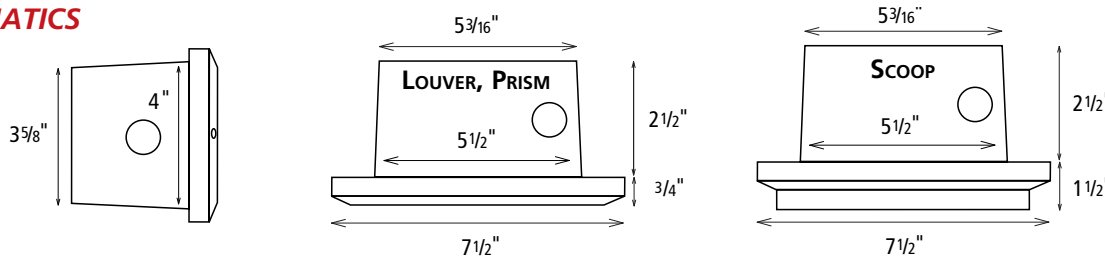


White Louver Cover

DESCRIPTION

Die cast aluminum wall mount Xenon step light fixture of 18 watts. 120VAC input and output of fixture up to 66 fixtures per 15A tap. 10,000 hour average Xenon bulb life of 2800K color temperature. UL listed Wet Location for all interior and exterior wall, ceiling, and concrete pour applications. Dimmable with a low voltage electronic dimmer. Offered in three cover styles and four fixture finishes.

SCHEMATICS



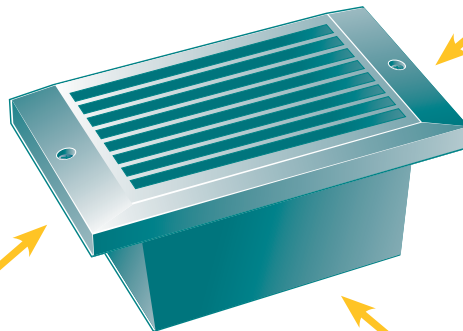
FEATURES

Xenon Bulbs

- Four times the bulb life of Halogen at 1/2 the cost of 120V Halogen
- Burns significantly cooler than Halogen
- No harmful UV rays
- Safer, low pressure bulbs
- 18 watts
- Dimmable

- Wide mounting flange works well even in drywall-only housing holes

- Push-In 120V connectors (no wire nuts required)
- Numerous 120V 1/2" NPT fittings for standard Romex™ input



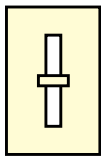
- Die cast aluminum can and cover
- Corrosion resistant
- Suitable for concrete pour
- 3 cover designs: Louver, Prism and Scoop
- 4 cover color options: White, Bronze, Black, Aluminum

- Ample room for 120V interconnection



Suitable for

- Wet locations
- Insulation contact
- Wall and ceiling mount
- Showers
- Use in poured concrete



DIMMABLE!

XENON STEP LIGHT

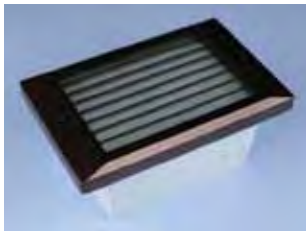
SPECIFICATIONS

Voltage	120VAC power input. Integral Class 2 12V transformer per fixture.
Fixture Energy Rating	120VAC, 150mA, 18 watts
Average Bulb Life	10,000 hours
Color Temperature	2800K +/- 200K
Cover Finish	White, bronze, aluminum, black
Can Finish	White with white reflector
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish.
Lens	Frosted tempered glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 66 fixtures per tap. Check local code and NEC for wiring selection
Dimming	Dimmable with an electronic low voltage dimmer on primary.
Agency Approval	UL listed Wet Location for all interior and exterior wall, ceiling, and concrete pour applications.
Warranty	One year. See back cover for details.

APPLICATIONS

- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Ceilings
- ▶ Showers

COVER OPTIONS



Louver Cover



Prism Cover



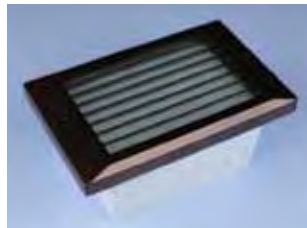
Scoop Cover

PHOTOMETRICS ON PAGE 56

COVER COLOR OPTIONS



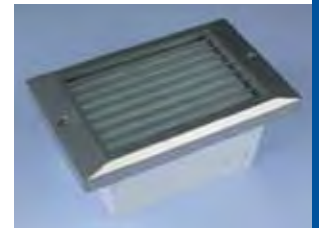
White



Bronze



Black



Aluminum

ORDERING LOGIC

XSL-Z-YY

Z = FIXTURE TYPE

- L = Louver Cover
- S = Scoop Cover
- P = Prism Cover

YY = FIXTURE FINISH

- WH = White
- BZ = Bronze
- BK = Black
- AL = Aluminum

ACCESSORIES

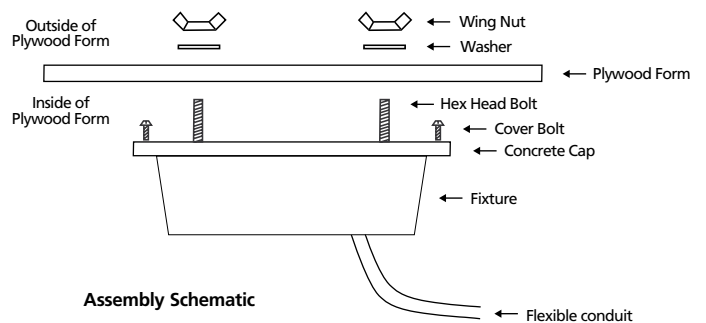
Concrete Cap - Required for direct pour mounting!



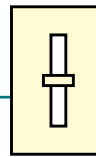
SL-CC Step Light Concrete Cap
Required for all concrete pour and brick wall applications



Concrete Cap installed in fixture



Assembly Schematic

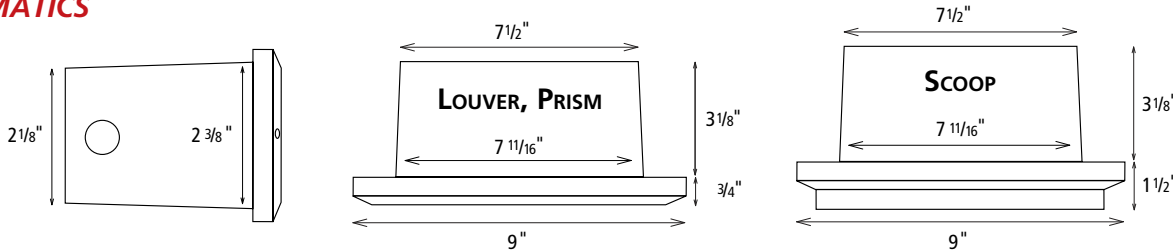


DESCRIPTION

Die cast aluminum wall mount Xenon light fixture fits standard brick void and consumes 18 watts. 120VAC input and output of fixture up to 66 fixtures per 15A tap. 10,000 hour average Xenon bulb life of 2800K color temperature. Offered in three cover styles and five fixture finishes. UL listed Wet Location for all interior and exterior wall, ceilings and concrete pour applications. Dimmable with a low voltage electronic dimmer.

PHOTOMETRICS ON PAGE 56

SCHEMATICS



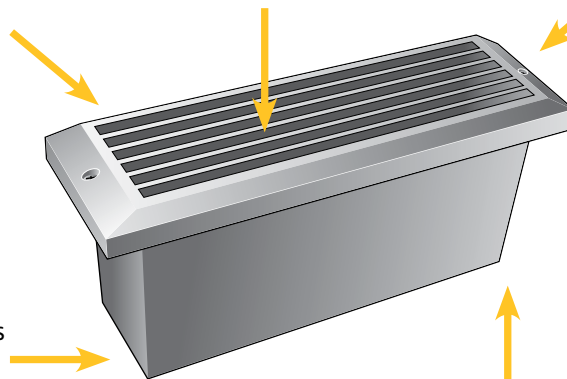
FEATURES

Xenon Bulbs

- Four times the bulb life of Halogen at 1/2 the cost of 120V Halogen
- Burns significantly cooler than Halogen
- No harmful UV rays
- Safer, low pressure bulbs
- 18 watts
- Dimmable

- Numerous 120V NPT fittings for standard Romex™ input

- Stainless Steel Louver option



- Die cast aluminum can and cover
- Fits standard brick void
- Corrosion resistant
- Suitable for concrete pour
- 3 cover designs: Louver, Prism and Scoop
- 5 cover color options: White, Bronze, Black, Aluminum or Stainless Steel (Louver cover only)

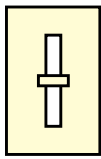
- Push-In 120V connectors (no wire nuts required)
- Numerous 120V 1/2" NPT fittings for standard Romex™ input

- Ample room for 120V interconnection



Suitable for

- Wet locations
- Insulation contact
- Wall and ceiling mount
- Showers
- Use in poured concrete



DIMMABLE!

XENON BRICK LIGHT

SPECIFICATIONS

Voltage	120VAC power input. Integral Class 2 12V transformer per fixture.
Fixture Energy Rating	120VAC, 150mA, 18 watts
Average Bulb Life	10,000 hours
Color Temperature	2800K +/- 200K
Cover Finish	White, bronze, aluminum, black, stainless steel louver option
Can Finish	White with white reflector, fluorocarbon lacquer on stainless steel option
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish. New stainless steel louver option!
Lens	Frosted tempered glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 66 fixtures per 15A tap. Check local code and NEC for wiring selection
Dimming	Dimmable with an electronic low voltage dimmer on primary.
Agency Approval	UL listed Wet Location for all interior and exterior wall, ceiling and concrete pour applications.
Warranty	One year. See back cover for details.

APPLICATIONS

- ▶ Brick walls
- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Ceilings
- ▶ Showers

COVER OPTIONS



Louver Cover



Prism Cover



Scoop Cover



Stainless Steel Louver Cover
Recommended for use in corrosive environments as salt air, adjacent bodies of water, or installed in caustic materials such as limestone.

COVER COLOR OPTIONS



White



Bronze



Black



Aluminum

ORDERING LOGIC

XBL-Z-YY

Z = COVER TYPE

- L = Louver Cover
- S = Scoop Cover
- P = Prism Cover

YY = COVER COLOR/FINISH

- WH = White
- BK = Black
- BZ = Bronze
- AL = Aluminum
- SS = Stainless Steel (Louver cover only)

ACCESSORIES

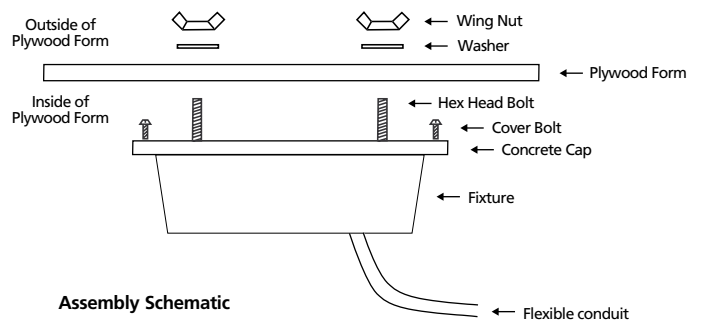
Concrete Cap - Required for direct pour mounting!

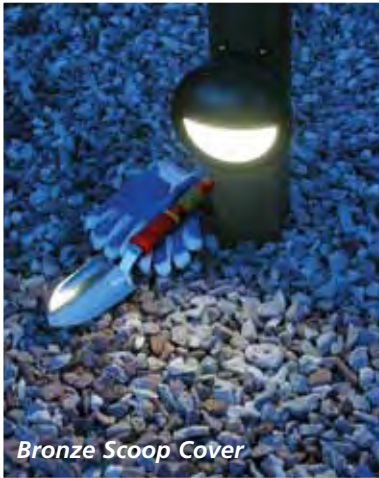
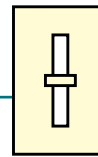


BL-CC
Brick Light Concrete Cap
Required for all concrete pour and brick wall applications



Concrete Cap installed in fixture





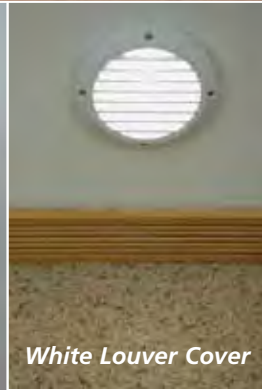
Bronze Scoop Cover



Aluminum Prism Cover



Recessed or Surface Mount

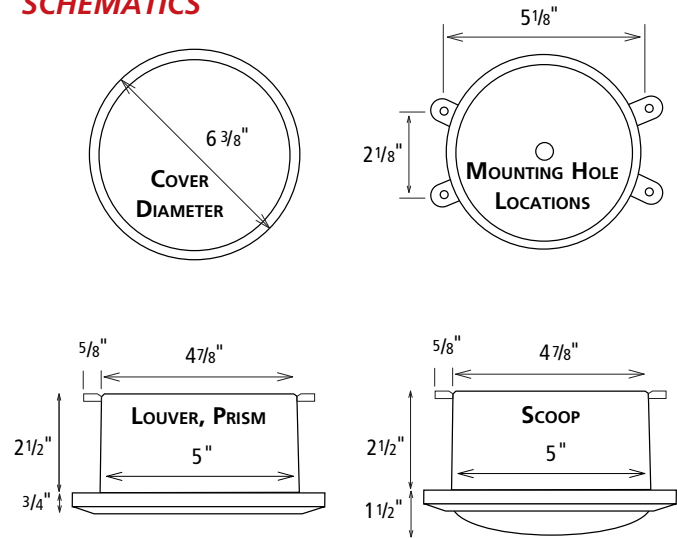


White Louver Cover

DESCRIPTION

Die cast aluminum surface or recessed mount Xenon light fixture of 18 watts. Dimmable. 120VAC input and output of fixture up to 66 fixtures per 15A tap. UL listed Wet Location. Offered in three cover styles and four fixture finishes.

SCHEMATICS



FEATURES

Xenon Bulbs

- Four times the bulb life of Halogen at 1/2 the cost of 120V Halogen
- Burns significantly cooler than Halogen
- No harmful UV rays
- Safer, low pressure bulbs
- 18 watts
- Dimmable

- Can be surface mounted or recessed into any hole 5" diameter and 3" deep

- Xenon Wall light has "Knock-off" tabs for surface mounting

- Die cast aluminum cover and can. Corrosion resistant. Suitable for concrete pour



- Three cover designs: Louver, Prism and Scoop
- Four cover color options: White, Black, Bronze or Aluminum

- Mounting flange for recessed mounting

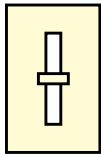
- Push-In 120V connectors (no wire nuts required)

- Numerous 120V 1/2" NPT fittings for standard Romex™ input



Suitable for

- Wet locations
- Insulation contact
- Wall mount
- Showers
- Use in poured concrete



DIMMABLE!

XENON WALL LIGHT

SPECIFICATIONS

Voltage	120VAC power input. Integral Class 2 12V transformer per fixture
Fixture Energy Rating	120VAC, 170mA, 18 watts
Average Bulb Life	10,000 hours
Color Temperature	2800K +/-200K
Cover Finish	White, black, bronze, or aluminum
Can Finish	White with white reflector
Construction	Both cover and can are die cast aluminum for corrosion protection, strength, weight, and consistency of finish
Lens	Frosted glass
Wiring Options	120V can be parallel wired ("daisy chained") up to 1188 watts (66 bulbs).
Dimming	Dimmable with an electronic low voltage dimmer on primary.
Agency Approval	UL listed and labeled wet and IC locations. Wall or surface mount only.
Warranty	One year. See back cover for details.

**PHOTOMETRICS
ON PAGE 56**

COVER OPTIONS



Louver



Scoop



Prism

APPLICATIONS

- ▶ Interior steps
- ▶ Exterior steps
- ▶ Aisles
- ▶ Halls
- ▶ Paths
- ▶ Patio lighting
- ▶ Entry lighting
- ▶ Post lighting
- ▶ Showers

FIXTURE COLOR OPTIONS



White



Black



Bronze



Aluminum

ORDERING LOGIC

XWL-Z-YY

Z = COVER TYPE

L = Louver Cover
S = Scoop Cover
P = Prism Cover

YY = FIXTURE COLOR

WH = White
BZ = Bronze
BK = Black
AL = Aluminum

Note:

All fixtures have the flexibility to be recessed or surface mounted

MOUNTING OPTIONS



Recessed



Surface mount

ACCESSORIES

Concrete Cap - Required for direct pour mounting!

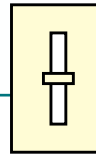


Wall Light Concrete Cap
WL-CC
Required for all concrete pour
and brick wall applications.



Concrete Cap
installed in fixture

XENON PRODUCTS



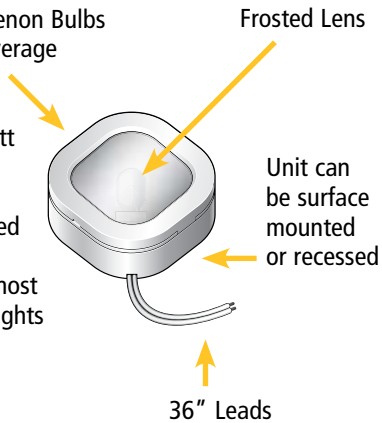
DESCRIPTION

Xenon 18 watt under cabinet light fixture. Approximately one-half the heat output of similar Halogen fixtures. Avg. bulb life of an impressive 10,000 hours. Does not emit harmful UV rays. Fully dimmable with the appropriate low voltage dimmer on the primary side of the transformer. Offered in six fixture finishes.

FEATURES

Xenon Bulbs

- 12V 18 watt Xenon Bulbs
- 10,000 hour average bulb life, versus 2,500 hour for 20 watt Halogen bulbs
- Fixture is laboratory tested to have a heat output 1/2 of most Halogen mini lights
- Dimmable



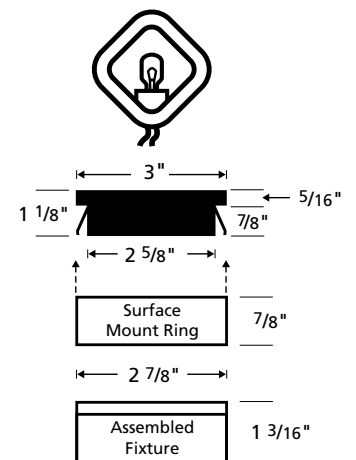
- Sold as both custom orders matching specific light fixtures, transformers, lead wires and connectors to specific applications, and 3-light, 54 watt retail kits

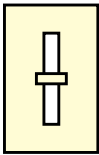


APPLICATIONS

- ▶ Under cabinets
- ▶ Display cases
- ▶ Furniture
- ▶ China cases
- ▶ Office work stations

SCHEMATICS





DIMMABLE!

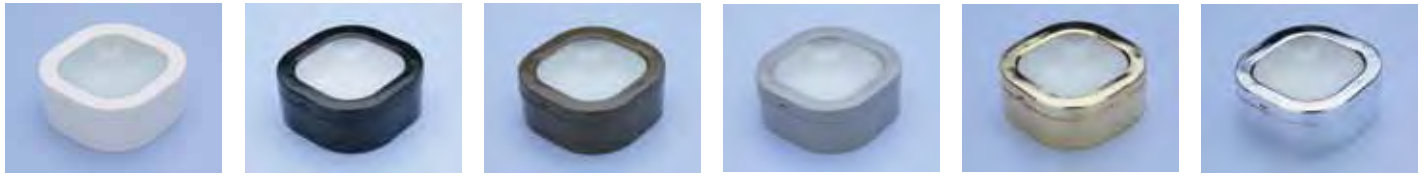
XENON MINI LIGHT

SPECIFICATIONS

Voltage	12V
Bulb Specifications	18 watt wedge base Xenon
Average Bulb Life	10,000 hours
Fixture Finishes	Gold, chrome, white, black, bronze, aluminum
Protective Features	Heat-resistant plastic design
Lens	Frosted
Leads	36"
Dimming	Dimmable with the appropriate low voltage dimmer on primary side of transformer
Agency Approval	ETL listed for use in cabinets and furniture with appropriate NSL transformer only
Warranty	One year. See back cover for details.

**PHOTOMETRICS
ON PAGE 57**

FIXTURE COLOR OPTIONS



White

Black

Bronze

Aluminum

Gold

Chrome

PURCHASE OPTIONS

3-Light Kit



XML-3-(color) 3 Light kit

- Contains:**
 Instructions
 (3) Fixtures, 39" Lead Wires
 60W Class 2 Electronic Transformer
 Connectors
 (6) 1-3/8" Mounting Screws
 (6) 7/16" Mounting Screws

Single Fixture (use transformers below)



XML-F-(color) fixture

- Contains:**
 Instructions
 (1) Fixture, 36" Lead Wire
 Terminal Block
 (2) 1-3/8" Mounting Screws
 (2) 7/16" Mounting Screws



TECLT-12-60
 6.5" x 1.5" x 1.5"
 Class 2, 1 circuit at 60 watts
 Up to 3 fixtures



TECLT-12-150
 7.1" x 1.75" x 1.75"
 1 circuit at 150 watts
 Up to 8 fixtures

ORDERING LOGIC

XML-X-Y

X = NO. OF FIXTURES

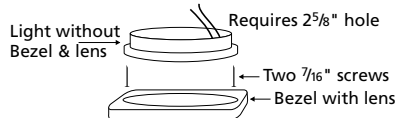
F = Single Fixture
 3 = 3 Light Kit

Y = FIXTURE COVER

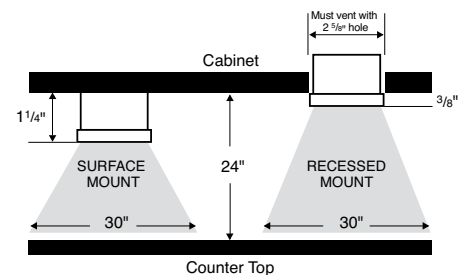
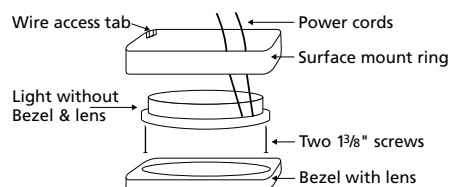
W = White A = Aluminum
 B = Black G = Gold
 Z = Bronze C = Chrome

MOUNTING OPTIONS

Recessed Mount Schematic



Surface Mount Schematic



ACCESSORIES



Replacement bulb
XEN-12-18W Clear



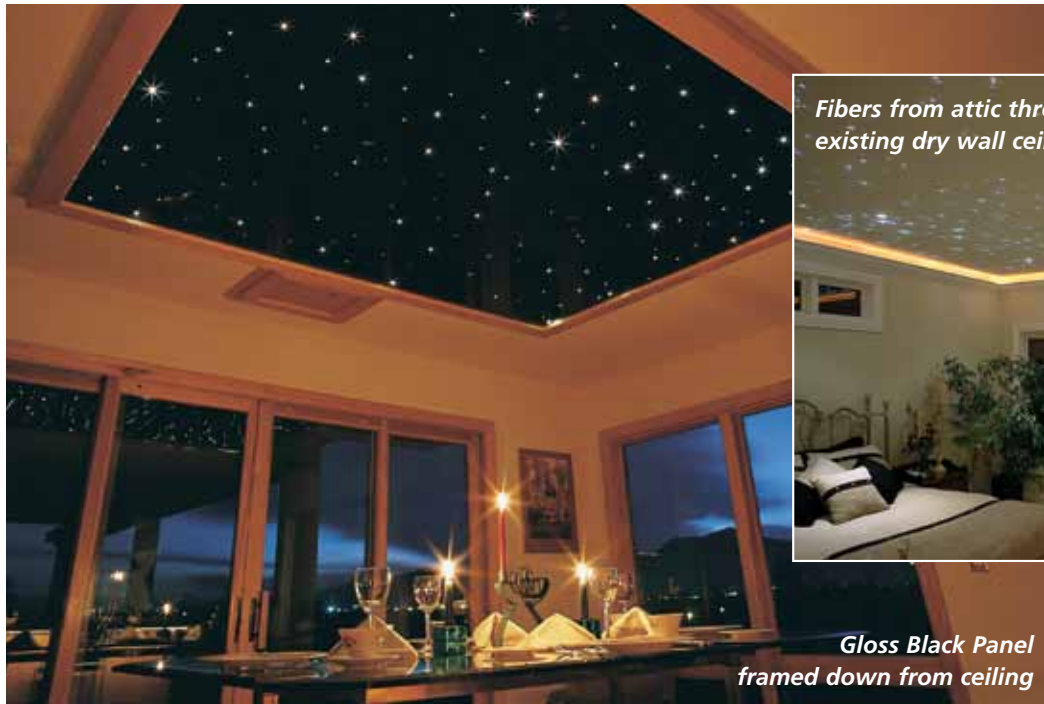
XML-DRILL



Wire Screw Clips
WSC-004
(30 per bag)



Terminal Block
LW-1



APPLICATIONS

- ▶ Dining Rooms
- ▶ Bedrooms
- ▶ Bathrooms
- ▶ Entryways
- ▶ Living Rooms
- ▶ Entertainment Rooms
- ▶ Visual Merchandising
- ▶ Exhibit Projects

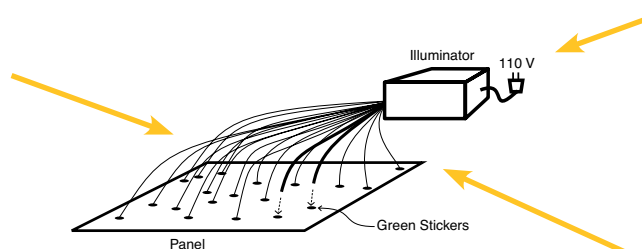
DESCRIPTION

System is comprised of a fiber optic illuminator of LED or Halogen light source, 12' long, 1/16" (1.0mm) dia. clear acrylic fibers, and acrylic panels or existing ceiling/wall covering drilled to accept the fibers. Fiber optic illuminators ships with a black/white wheel for a twinkling star night effect, or a color wheel for a kaleidoscope effect. Standard acrylic panels fit into a 2' x 2' or 2' x 4' drop ceiling. Custom panels available to 4' x 8' and all panels can be mounted adjacent one another. ETL listed for indoor dry locations only.

FEATURES

- Point-to-point acrylic fibers transmit light from the illuminator to a gloss or matte black panel. Black and white wheel create a "twinkling" effect. Color wheel is a kaleidoscope effect.

Standard Panel Installation



- Four illuminator choices
- Low power usage. As many as 300 fibers illuminated by just 10 watts
- New LED illuminator has 85% energy savings vs. similar Halogen model.
- Standard 2' x 2' and 2' x 4' panels pre-cut to fit in drop ceilings
- Custom cut panels for special applications
- Gloss and matte panel finish options

PANEL DIMENSIONS

Stock = 2' x 2'
 2' x 4'
 Custom = Any dimension up to a 4' x 8'

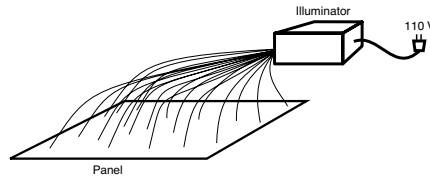
ILLUMINATOR DIMENSIONS

LED GP-5 = 7" x 5 1/2" x 5 3/4"
 Halogen GP-35 = 7" x 5 1/2" x 5 3/4"
 Halogen GP-50 = 11" x 5 1/2" x 5 3/4"
 Halogen GP-75 = 11" x 5 1/2" x 5 3/4"

SPECIFICATIONS

"Galaxy Fiber Optic Panel Systems" incorporates our own "clear nite" background panel. The "clear nite" background is a 3/16" gloss or matte black acrylic panel whose highly reflective surface allows for depth and multiple light point representation. Optional matte finish on plexiglass panels diffuses possible reflections from ambient room illumination.

Standard "clear nite" panels are 2' x 2' or 2' x 4' and fit into standard drop ceilings. Custom sizes are available. Our "star point" fibers can also be placed into any other medium of approximately 1" or less width for custom applications (i.e., wood or standard ceiling tiles). See instructions for complete specifications and installation details. (www.nslusa.com) Do not dim. One year warranty. See back cover for details.



GP-5-12' Interior showing 5 watt LED MR-16 bulb

Illuminator	Fiber Length	Number of Fibers	Maximum Panels / Area	Maximum Fibers/Sq.Ft	Total Fixture Wattage
GP-35B-12'	12'	160	(3) 2x4 / 24 sq. ft.	6.7	55
GP-50-12'	12'	300	(4) 2x4 / 32 sq. ft.	9.4	70
GP-5-12'	12'	300	(4) 2x4 / 32 sq. ft.	9.4	10
GP-75-12'	12'	400	(4) 2x4 / 32 sq. ft.	12.5	95

All illuminators ETL Listed for indoor use only.

Note: Standard 2x4 panels are pre-drilled with 70 holes.

ILLUMINATOR PURCHASE OPTIONS



GP-5-12' 5W LED Illuminator with a harness of 300 Fibers in a 12' length. 7" x 5.5" x 5.75" - 5 watt LED bulb.



GP-35B-12' 35W Illuminator with a harness of 160 Fibers in a 12' length. 7" x 5.5" x 5.75" - 35 watt Halogen bulb.



GP-50-12' 50W Illuminator with a harness of 300 Fibers in a 12' length. 11" x 5.5" x 5.75" - 50 watt Halogen bulb.



GP-75-12' 75W Illuminator with a harness of 400 Fibers in a 12' length. 11" x 5.5" x 5.75" - 75 watt Halogen bulb.

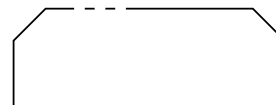
PANEL PURCHASE OPTIONS



2' x 2'
Gloss = GP-P-2
Matte = GP-P-2-M
35 pre-drilled holes for fiber



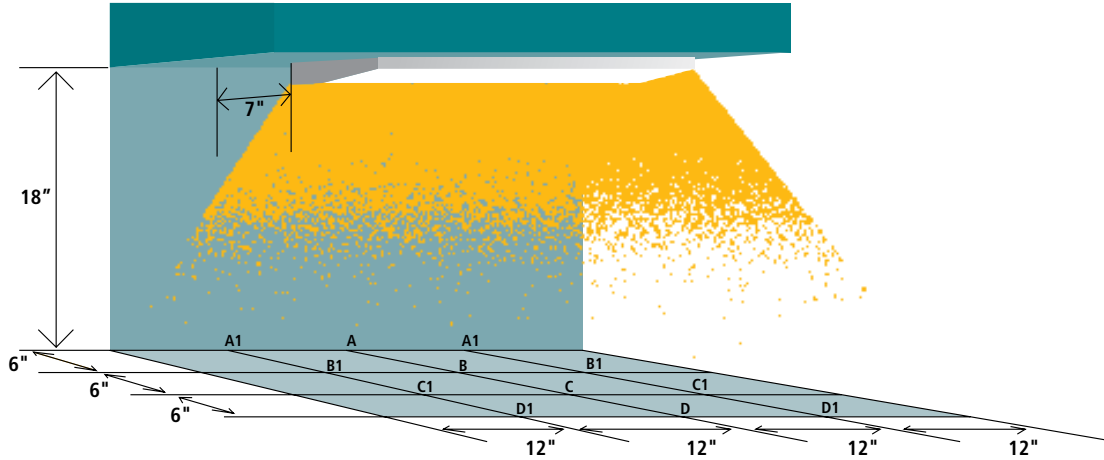
2' x 4'
Gloss = GP-P-4
Matte = GP-P-4-M
70 pre-drilled holes for fiber



Custom =
Contact distributor for quote

PHOTOMETRICS

Under Cabinet Applications



3 LED Module Task Star (Model no. LTS-3-HW/WH) Lumens=446 Watts=15.6

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	86.2	58.3	91.0	61.4	75.2	51.4	54.7	38.2

LED Tape Light (Model no. LTP-3-WW) Lumens=939 Watts=24.1

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	138	111	144	116	121	97.9	92.8	74.7

LED Thin Star (Model no. LTH-12-XX) Lumens=248 Watts=6.4

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	50.3	28.4	53.9	30.3	46.2	26.6	35.0	20.9

LED Mini Star II (Model no. LMSII-F-XX) Lumens=172 Watts=3.26

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	43.2	17.2	45.5	17.8	37.6	15.3	27.4	12.2

Xenon Task Light (Model no. XTL-3-HW/WH) Lumens=308 Watts=54

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	21.3	15.6	35.5	25.1	43.0	30.5	36.5	26.9

Xenon Mini Light (Model no. XML-F-XX) Lumens=131 Watts=18

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	25.8	11.2	32.9	12.5	23.4	9.9	11.4	6.1

LED Hard Strip (Model no. LV-HS-NW-24T2-2Y) Lumens=367 Watts=6

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	70.93	47.97	74.88	50.52	61.88	42.30	45.01	31.43

LED Puck Lights (Model no. LP-X-YY) Lumens=125 Watts=2.9

Kitchen Cabinet Photometrics H=18"

GRID LOCATION:	A	A1	B	B1	C	C1	D	D1
ILLUMINANCE IN FOOTCANDLES:	18.2	8.3	30.0	13	26.1	11.1	15.0	7.0

LED

	FOOTCANDLES ON CEILING							
LED Tape Light	116.0	7.9	3.3	1.9	1.6	1.4	1.3	1.0
LED eStrip	17.6	1.4	0.7	0.5	0.4	0.3	0.3	0.2
LED Brite Strip	23.5	2.9	1.0	0.6	0.4	0.4	0.4	0.3

LED Tape Light
(Model no. LTP-3-WW)
Lumens=939
Watts=24.1

LED eStrip
(Model no. LES-3-WW 3 ft)
Lumens=166
Watts=2.88

LED Brite Strip
(Model no. BLF-4-WW 2 ft)
Lumens=200
Watts=4.16

LED Tape Light	11.8	14.0	11.1	8.1	5.8	4.3	3.4	2.0
LED eStrip	1.8	2.2	2.1	1.6	1.1	0.9	0.7	0.4
LED Brite Strip	2.3	2.2	1.8	1.4	1.1	0.8	0.7	0.4
FOOTCANDLES ON TASK PLANE 30" ABOVE FLOOR								
LED Tape Light	10.4	10.2	8.8	7.0	5.4	4.3	3.5	2.6
LED eStrip	1.6	1.6	1.6	1.3	1.1	0.8	0.7	0.5
LED Brite Strip	1.7	1.7	1.6	1.3	1.1	0.9	0.7	0.5
FT	1'	3'	5'	7'	9'	11'	13'	15'
FOOTCANDLES ON FLOOR								

INCANDESCENT/XENON

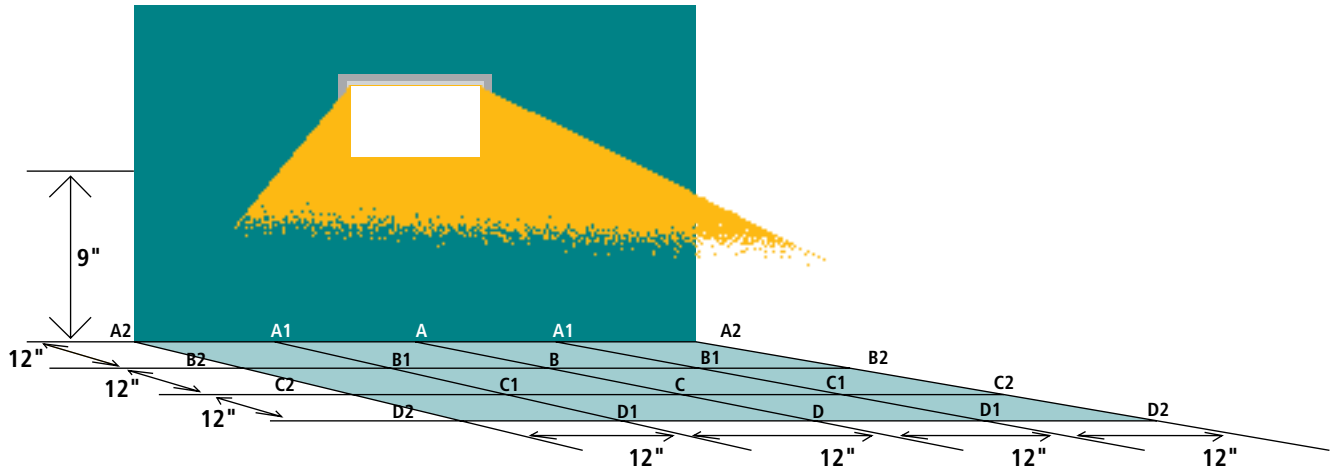
	FOOTCANDLES ON CEILING							
FC: 5W Incandescent	23.4	4.0	2.2	1.6	1.4	1.1	1.0	1.0
FC: 10W Xenon	67.4	11.6	6.5	4.7	3.9	3.0	3.0	2.9

5W Incandescent
(Model no. BLF-4-XX 2 ft)
Lumens=192
Watts=40

10W Incandescent
(Model no. BLF-4-XX 2 ft)
Lumens=550
Watts=80

FC: 5W Incand	4.1	3.7	3.2	2.7	2.3	2.0	1.8	1.6
FC: 10W Xenon	12.1	10.9	9.2	7.7	6.6	5.9	5.3	4.7
FOOTCANDLES ON TASK PLANE 30" ABOVE FLOOR								
FC: 5W Incand	3.6	3.3	3.0	2.7	2.3	2.1	1.9	1.7
FC: 10W Xenon	10.5	9.7	8.7	7.7	6.8	6.1	5.5	4.8
FT	1'	3'	5'	7'	9'	11'	13'	15'
FOOTCANDLES ON FLOOR								

OTHER



LED Step Star (Model no. LST-P-WH-WH)

Lumens=73.5 Watts=5.2

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	6.51	2.54	0.53	2.11	1.38	0.56	0.79	0.63	0.36.

LED Brick Star (Model no. LBR-P-WH-WH)

Lumens=70.2 Watts=5.2

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	6.42	2.51	0.52	1.91	1.26	0.53	0.70	0.56	0.33

LED Wall Star (Model no. LWS-P-WH-WH)

Lumens=61.1 Watts=5.2

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	5.62	2.23	0.47	1.62	1.08	0.46	0.59	0.47	0.28

Xenon Step Light (Model no. XSL-P-WH)

Lumens=86 Watts=18

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	8.1	2.3	0.4	3.5	2.0	0.6	1.3	1.0	0.5

Xenon Brick Light (Model no. XBL-P-WH)

Lumens=62 Watts=18

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	4.5	1.8	0.4	1.9	1.3	0.5	0.8	0.6	0.4

Xenon Wall Light — Surface Mount (Model no. XWL-P-WH)

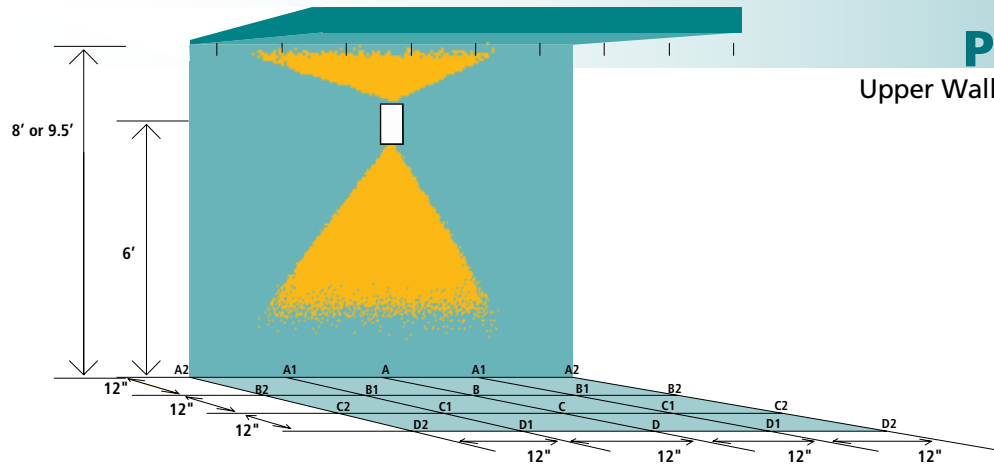
Lumens=52.2 Watts=18

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	11.2	3.0	0.5	4.4	2.3	0.7	1.6	1.1	0.5

Xenon Wall Light — Recessed (Model no. XWL-P-WH)

Lumens=52.2 Watts=18

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	9.8	3.2	0.6	3.4	2.0	0.7	1.3	1.0	0.5



LED Sconce Star (wide opening down, narrow opening up) (Model no. LSS-WW-AL) Lumens=151 Watts=10.4

Floor Photometrics (Fixture center 6 ft. above floor)

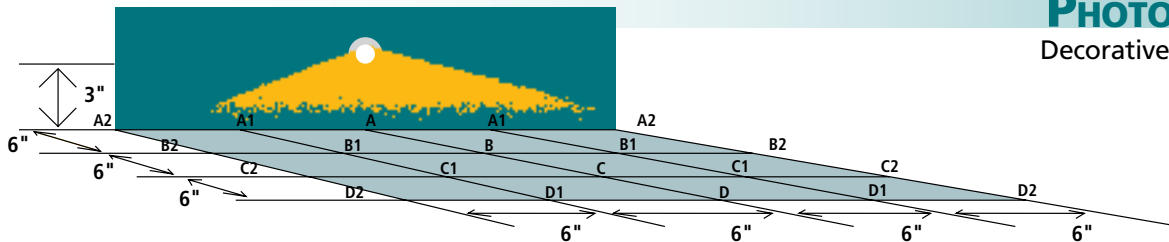
GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	2.18	2.08	1.76	2.08	2.01	1.72	1.85	1.78	1.50	1.46	1.39	1.18

Ceiling Photometrics (Ceiling height 8 ft. above floor)

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	21.63	1.15	0.16	14.13	0.72	0.14	3.62	0.32	0.09	0.13	0.09	0.05

Ceiling Photometrics (Ceiling height 9.5 ft. above floor)

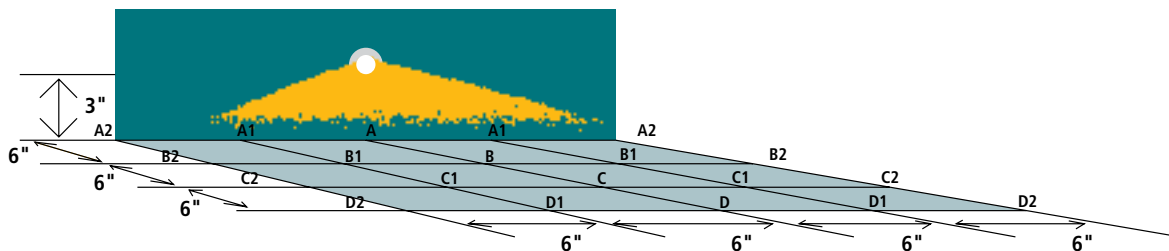
GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	5.87	1.67	0.27	5.39	1.73	0.23	3.44	1.56	0.16	1.85	0.64	0.13



LED Surface Star (Model no. LEDSS-WH-WH) Lumens=16.2 Watts=1.2

Floor Photometrics

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	20.2	0.37	0.05	3.0	1.81	0.06	0.86	0.70	0.37



LED Disc Light (3" above floor) (Model no. LEDMD-WW-YY) Lumens=2 Watts=0.54

Floor Photometrics (Cool White)

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	49.2	11.6	1.6	8.9	5.1	1.8	2.8	2.2	1.1

LED MiniDisc Light (3" above floor) (Model no. LEDMD-WW-YY) Lumens=2 Watts=0.54

Floor Photometrics (Cool White)

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	0	0	0	0.94	0.25	0.04	0.17	0.1	0.04	0.05	0.04	0.02

LED MiniDisc Scoop Light (3" above floor) (Model no. LEDMDS-WW-YY) Lumens=1 Watts=0.54

Floor Photometrics (Cool White)

GRID LOCATION:	A	A1	A2	B	B1	B2	C	C1	C2	D	D1	D2
ILLUMINANCE IN FOOTCANDLES:	1.44	0.07	0.01	0.86	0.22	0.03	0.12	0.07	0.03	0.04	0.03	0.02

OTHER

DIMMABLE LED DRIVERS



TR12L20DC
5.6" x 2" x 2.14" Class 2
1 circuit at 20 watts for 12VDC



TR12L40DC
5.6" x 2" x 2.14" Class 2
1 circuit at 40 watts for 12VDC



TR12L60DC
6.55" x 2.25" x 2.55" Class 2
1 circuit at 60 watts for 12VDC



TR24L20DC
5.6" x 2" x 2.14" Class 2
1 circuit at 20 watts for 24VDC



TR24L40DC
5.6" x 2" x 2.14" Class 2
1 circuit at 40 watts for 24VDC



TR24L60DC
6.55" x 2.25" x 2.55" Class 2
1 circuit at 60 watts for 24VDC



TR24L96DC
6.55" x 2.25" x 2.55" Class 2
1 circuit at 96 watts for 24VDC

Note:

- ▶ Wattage ratings are for maximum load of dimming LED Drivers. Use without dimmer or for peak performance with dimmer, requires a minimum load \geq 50% of maximum load.
- ▶ All dimmable LED Drivers are ETL listed as an indoor/outdoor stand alone power supplies.
- ▶ All hardwire LED Drivers ship with an outdoor rated low voltage strain relief included.

NON DIMMABLE LED DRIVERS



LEDDR-12-60W
10.25" x 3" x 2" Class 2
1 circuit at 60 watts for 12VDC
RU Component indoor/outdoor listed



LEDDR-24-120W 11.6" x 3.6" x 2.25"
Either 1 circuit at 90 watts, or
2 circuits at 60 watts for 24VDC
RU Component indoor/outdoor listed



LMS-24-60W 4.5" x 2.1" x 1.5"
1 circuit at 60 watts for 24VDC
UL Listed as a plug-in indoor
stand alone power supply

DIMMERS



Skylark™ Low Voltage Magnetic Dimmer
ED-LV/W-480 (white)
ED-LV/I-480 (ivory)
For use with "TR" LED Drivers or transformers under 480 watts. Connects on 120VAC side of transformer. Maximum wattage is listed for primary side of transformer. Read fixture and dimmer instructions before use.



Skylark™ Standard 120VAC Dimmer
ED-HV/W-600 (white)
ED-HV/I-600 (ivory)
For use with all 120VDC LED Module products, and most "TE" transformers under 480 watts. Connects on 120VAC side of transformer. Maximum wattage is listed for primary side of transformer. Read fixture and dimmer instructions before use.

MOUNTING ACCESSORIES



Wire Screw Clips
WSC-004
(30 per bag)



LMSII-001
Class 2 Junction Box & Terminal Block
1-7/16"(l) x 11/16"(w) x 9/16"(h)

MAGNETIC ETL listed indoor and outdoor



TR-12-150
 10" x 3.1" x 3"
 1 circuit at 150 watts for 12VAC



TR-12-240
 10" x 4.25" x 3.6"
 1 circuit at 240 watts for 12VAC



TR-12-300 or TR-24-300
 10" x 4.25" x 3.6"
 2 circuits at 150 watts each for 12VAC
 1 circuit at 300 watts for 24VAC



TR-12-480 or TR-24-480
 11.1" x 4.75" x 4.25"
 2 circuits at 240 watts each for 12VAC
 1 circuit at 480 watts for 24VAC



TR-24-600
 11.1" x 4.75" x 4.25"
 2 circuits at 300 watts each for 24VAC



TR-24-960
 12.5" x 7.0" x 4.75"
 2 circuits at 480 watts each for 24VAC

ELECTRONIC UL listed as a component ("RU" Marking). Check your fixture listing for acceptability. All connections must be made per fixture listing and NEC. 120VAC input/11.6VAC output.



TER-12-60/W (white)
 TER-12-60/B (black)
 3.5" x 1.5" x 1"
 1 circuit at 60 watts, class 2, 11.6VAC



TE-12-80
 2.125" x 1.25" x 0.75"
 1 circuit at 80 watts for 11.6VAC



TE-12-105
 3.0" x 1.25" x 0.75"
 1 circuit at 105 watts for 11.6VAC



TE-12-150
 4.0" x 1.6" x 1"
 1 circuit at 150 watts for 11.6VAC

ELECTRONIC ETL listed as a stand alone power supply ("ETL" Marking). Each transformer is enclosed in a painted steel enclosure with 1/2" knockouts for the incoming 120VAC and the 11.7VAC output.



TECLT-12-60
 6.5" x 1.5" x 1.5"
 Class 2, 1 circuit at 60 watts for 11.7VAC



TECLT-12-150
 7.1" x 1.75" x 1.75"
 1 circuit at 150 watts for 11.7VAC

Note:

- ▶ All transformer and LED driver dimensions are Length x Width x Height
- ▶ All transformer dimensions are of enclosure including mounting flanges and included strain relief.
- ▶ All transformers should not be totally enclosed, and must ventilate.
- ▶ All LED drivers, dimmers and transformers carry a two year warranty.

OTHER

WARRANTY

AVERAGE BULB LIFE

National Specialty Lighting tests average bulb life and LED life under standard industry specifications. Lifetime figures and warranty periods for each product line are listed below. Individual bulb life or LED life experience may vary with actual environmental conditions (i.e, proper installations, ambient temperature, and input voltage fluctuations).

EXTENDED LIMITED WARRANTY

National Specialty Lighting, Ltd. ("NSL") hereby warrants to the original purchaser only, the following products, for the warranty periods specifically identified for each product below, to be free from defects in material and workmanship under normal use and service. If the original purchaser of an NSL product listed below discovers any defect in the material and workmanship in such product during the applicable warranty period, NSL shall, at NSL's cost, repair or replace, at NSL's sole option, any defective product. The applicable warranty

period shall commence on the date the product is shipped from NSL's warehouse facility. The foregoing warranty shall include cost of shipment of the product from and to the original purchaser and NSL, but NSL shall have no responsibility for any labor charges relating to the removal, installation or reinstallation of the product. The products may represent a possible shock or fire hazard if improperly installed or attached in any way. THIS EXTENDED LIMITED WARRANTY DOES NOT APPLY TO ANY PRODUCTS WHICH HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH THE OWNER'S MANUAL, CURRENT LOCAL CODES, AND/OR THE CURRENT NATIONAL ELECTRICAL CODE. All warranty claims or questions should be addressed to NSL, Attn: President, 2299 Kenmore Ave, Tonawanda, NY 14207. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. EXCEPT FOR THE FOREGOING EXTENDED LIMITED WARRANTY, NSL MAKES NO OTHER WARRANTY WHATSOEVER WITH RESPECT TO ITS PRODUCTS.

PRODUCT	RATED LED LIFE (HOURS)	WARRANTY PERIOD	PRODUCT	AVG. BULB LIFE (HOURS)	WARRANTY PERIOD
LED LV-DL Series	50,000	3 years	LED Surface Star	40,000	2 years
LED Hard Strip	40,000	2 years	LED Brite Strip	40,000	2 years
LED Puck Lights	30,000	2 years	LED Fiber Optic	40,000	2 years
LED Tape Light	40,000	2 years	Brite Strip & Accessories	10,000 2,500	1 year (6 mos.-bulbs) 3 months (MR11 bulbs)
LED eStrip	40,000	2 years	Xenon Task Light	10,000	1 year
LED Thin Star	40,000	3 years	Xenon Step Light	10,000	1 year
LED Task Star	40,000	3 years	Xenon Brick Light	10,000	1 year
LED Mini Star II	40,000	3 years	Xenon Wall Light	10,000	1 year
LED Sconce Star	40,000	2 years	Xenon Mini Light	10,000	1 year
LED Step Star	40,000	2 years	Halogen Galaxy Fiber Optic	5,000	1 year (6 mos.-bulbs)
LED Brick Star	40,000	2-3 years	Transformers/Dimmers	-----	1 year
LED Wall Star	40,000	2 years	LED Drivers	-----	2 years
LED Disc Light	50,000	3 years			
LED MiniDisc Light	40,000	2-3 years			

PRICE: \$4.95

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All product instructions can be found on our website: www.nslusa.com



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NATIONAL SPECIALTY LIGHTING

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