NORA | NSPEC® LIGHTING

LED CATALOG

5TH EDITION

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Large enough to do it right, small enough to care.

At Nora Lighting, our clients are at the heart of everything we do. We take their goals seriously, and see their success as our own.

Since 1989, our commitment to our clients, and our desire to strive for excellence have been the base of Nora's corporate culture. We support and champion the technological development of luminaires that meet or exceed the highest international standards of design, craftsmanship, quality, performance, and energy efficiency. We strive to exceed our customer's expectations with products utilizing the latest in lighting technology and exceptional customer service. We pursue these goals with ethical, sound and honest business practices.

Over the past 28 years, Nora Lighting has worked diligently to live up to these goals while offering a product line that continues to set benchmarks for innovation, quality, and performance. Our vast array of LED products presented in this LED product guide are a testament to this. Since the development of our first LED downlight in 2011, our team of engineers has continued to produce LED luminaires that achieve new milestones in energy efficiency, lighting quality, and design.

Our full line of LED and non-LED lighting solutions are a reflection of our commitment to our clients. Our extensive product lines, together with our dedicated sales and support teams continue to support the various needs of our valued customers. We hope you are able to find exactly what you are looking for with Nora Lighting, and when you do, the entire Nora family will be ready to meet your needs.

Cleveland, OH   Syracuse, NY

Detriot, MI   New York, NY

Nora's Network

Nationwide Distribution: Faster Shipping

Nora's nationwide network of distribution points allows us to fill orders faster than most manufacturers and ensures that our clients receive products and support in a timely manner.

From our 150,000 square-foot manufacturing/warehouse center in Southern California to 10 key distribution points across the country, Nora products can be sent out and delivered as soon as you need them. Orders for in-stock items that are received by 12 noon (PST) can be shipped within 24-48 hours.

Los Angeles, CA   Dallas, TX   Nashville, TN
DISTRIBUTION CENTER

Philadelphia, PA

Tampa, FL

Louisville, KY   Cincinnati, OH

NORA | NSPEC
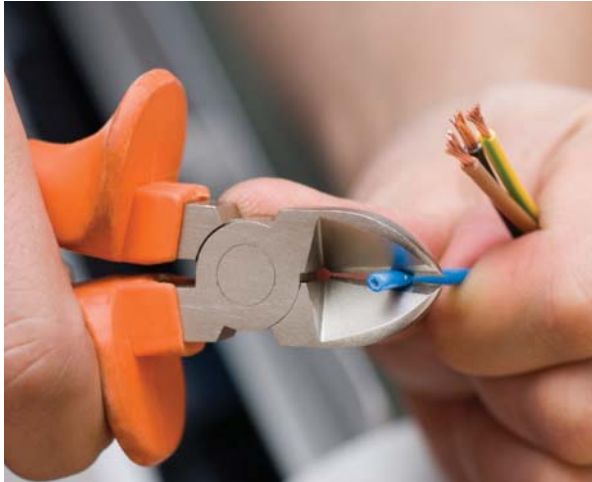
Streamlined Production:
Quick Response Assembly

Nora has implemented new support systems and streamlined production and inventory management to provide better, faster fulfillment. The Integrated Assembly Center at Nora's Commerce headquarters is designed for quick response and flexibility. Whether it is a request for an emergency unit, a special configured LED package dimming driver or custom reflector / trim combination, Nora manufacturing can complete the order and ship it to a distributor within one to five days.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Watts
·	10	A	SINGLE	N.A.	0.920	NPD-E2243-40A	35.99

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SAMPLE OFFICE_Workplane	Illuminance	Fc	62.61	77.2	42.7	1.47	1.81

Luminaire Location Summary

LumNo	Label	X	Y	Z	Orient	Tilt
1	A	3	3	10	0	0
2	A	3	9	10	0	0
3	A	3	15	10	0	0
4	A	3	21	10	0	0
5	A	9	3	10	0	0
6	A	9	9	10	0	0
7	A	9	15	10	0	0
8	A	9	21	10	0	0
9	A	15	3	10	0	0
10	A	15	9	10	0	0

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ABC CORP OFFICE

MY TOWN, USA

| Drawn By: |
| Checked By: |
| Date:6/20/2017 |
| Scale: |

Revisions

| # | Date | Comments |

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LIGHTING
6505 Gayhart Street Commerce, CA 90040
800-686-6672
EMAIL: ALEX@NORALIGHTING.COM

Free Point-by-Point Lighting Design

Nora Lighting through its representatives now offers our customers free Photometric Point-by-Point Lighting layouts, based on a client's information and using AGI32. With this new service, Nora Lighting sales reps can assist in preparing a lighting design for a new project or verify that a design meets IESNA standards. Most layouts can be completed within a 24-hour time frame.

Services and Capabilities

World Class Customer Service

At Nora Lighting, great customer service is our passion. Whenever you contact our administrative offices, your call is personally answered by a friendly staff member who can respond to your query or direct you to a key contact.

All Nora accounts have a dedicated Customer Care representative who is well-acquainted with your projects and orders, and has current details at their fingertips. Our Customer Care specialists act as your in-house "project manager" and can supply all specification and product data, inventory reports, order status and shipping updates.

Assisting our Customer Service is our Quotations Department, a team of knowledgeable experts who understand the various requirements of commercial or residential projects and work to build a package that meets your lighting needs. You can rely on the Nora support team for:

· Project Specifications, Quotations and Sales
· Project Management, Order Status, Processing and Shipping
· Field Support and Technical Services.

The Nora Network:
Distribution Channel Partners

Nora Lighting is proud to be represented by a network of professional lighting supply, showroom and specification agencies across the U.S., Canada, Central and South America. Our complete line of fixtures and accessories can be found nationwide at electrical wholesalers, lighting showrooms and select internet dealers.

That means lighting designers, architects and contractors can count on these industry experts for up-to-date information on what's new and energy-efficient in Nora commercial and residential fixtures and to provide value-added sales support.

To help our sales reps and distributors stay competitive, Nora also offers a variety of distributor programs tailored to meet the goals for growth of our distributor partners. Contact Nora's national sales managers for more details on a program designed for your team.

Nora National Accounts: Customized Programs

Nora is committed to developing long-term relationships with National Accounts and we have expanded our sales programs to better serve large organizations with central purchasing offices. Well-known customers in healthcare, hospitality, retail, industrial, residential and corporate development have discovered the benefits of doing business with us.

Nora's in-house National Accounts Service Team is strictly "hands-on." From quotation and order placement to shipping and confirmation, a National Account representative oversees every step and has status reports on hand. Our specialists are familiar with your inventory requirements and will replenish stock, based on your corporate needs. With Nora's sophisticated inventory control system, we can pre-allocate and hold inventory until it is time to release your shipment.

Here's what Nora can do for your company:

· Outstanding selection of top quality, energy-efficient products with a range of price points

· Nationwide network of centrally-located distribution facilities, stocked and ready to ship

· Advantage of one-source shopping for all corporate lighting needs

· Customized purchase programs that meet customer's needs and expectations.

Nora Engineering
Bringing ideas to reality

Nora's team of designers engineers, mechanical engineers, and electrical engineers work together to develop innovative lines of energy efficient luminaires. Nora engineers combine design and lighting knowledge, thereby creating products that represent an excellent marriage of technology and aesthetics. To aid in their product development lifecycle, Nora engineers have the latest technology at their fingertips. Our 3D printer and software tools allow for rapid development of new designs, while our on-site UL lab and photometric testing facility bring approved designs to market rapidly.

Nora Technical Support

Nora's technical team is available during business hours to guarantee that our customers are getting the best use out of our products. From installation help to trouble shooting, the technical team is able to address any question you may have regarding Nora and NSpec products. Our technical team can also help address questions regarding the new Title 24 requirements and how our products can meet them.

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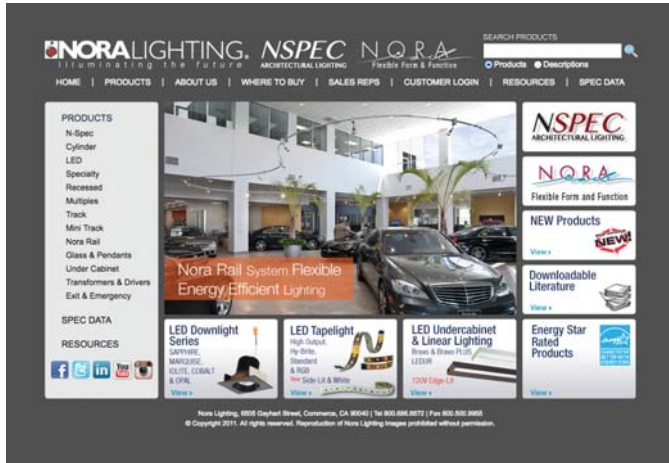
Easy-to-Navigate Website:
www.noralighting.com

The Nora website is more user-friendly than ever and has important information at your fingertips. It quickly links to specific fixture lines and one-click product searches bring up related categories. For example, the Nora Recessed Lighting category links to all recessed lighting fixtures, including: LED, incandescent, low voltage, CFL, metal halide HID, square housings, sloped ceiling, retrofit kits, step lighting and accessories.

An updated Resources section has been added that offers all Nora literature and advertising with download-able PDF product catalogs and configurable specification data sheets that can be saved with customer information. Nora order forms and credit applications, along with company news and product updates, are also easily viewed and printable.

Internet Business Site:
www.Norainfo.com

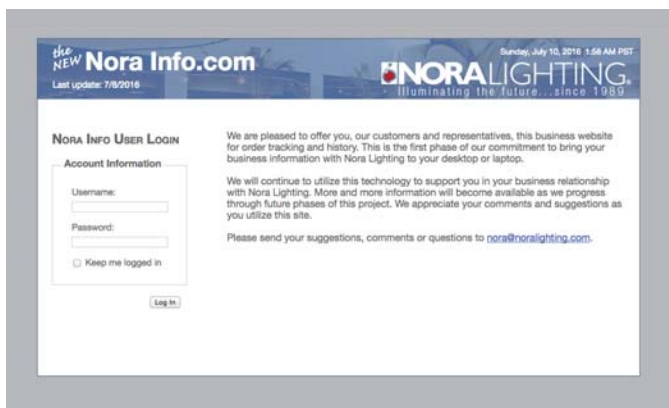If you are following up on an order, but don't have time to call, or are outside of Nora's business hours, you can access your order at NoraInfo.com. NoraInfo houses information relating to current and past orders and can be accessed at any time via the Nora home page or you can simply go to www.NoraInfo.com. Check in 24 hours a day for updates on order information that you need now.
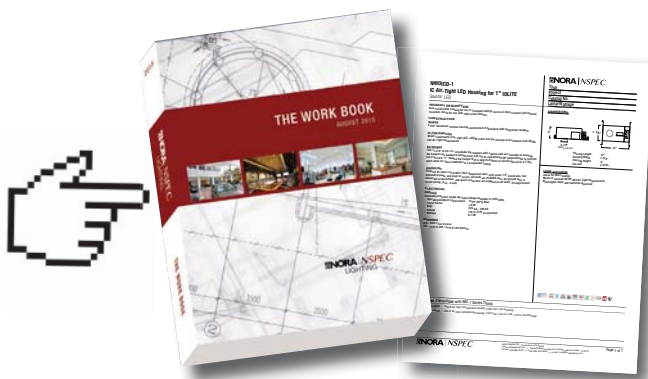
FTP Site (Google Drive)

The Nora FTP site houses on-demand Nora literature and files. Distributors can access our FTP site at anytime to retrieve marketing materials, detailed product files, and general product and company information.

Nora's Marketing Department: Keeping You Up-to-Date

Nora's in-house Marketing Department gives the company an edge in providing our customers with current information on product updates, industry trends and developments that affect your business.

Staffed with talented professionals, this integrated department oversees all Nora sales materials, specification sheets, literature, advertisements, online promotions and product publicity….. and gives Nora the ability to address fast-paced changes in the lighting industry.

As new products are introduced and industry standards modified, Nora can respond with useful information for lighting designers, architects, specifiers, sales representatives and customers to help them make better buying decisions.

Aerial view of Nora's 150,000 square foot facility in Commerce, Ca. In 2016, Nora installed solar panels and is now 100% power by the sun.
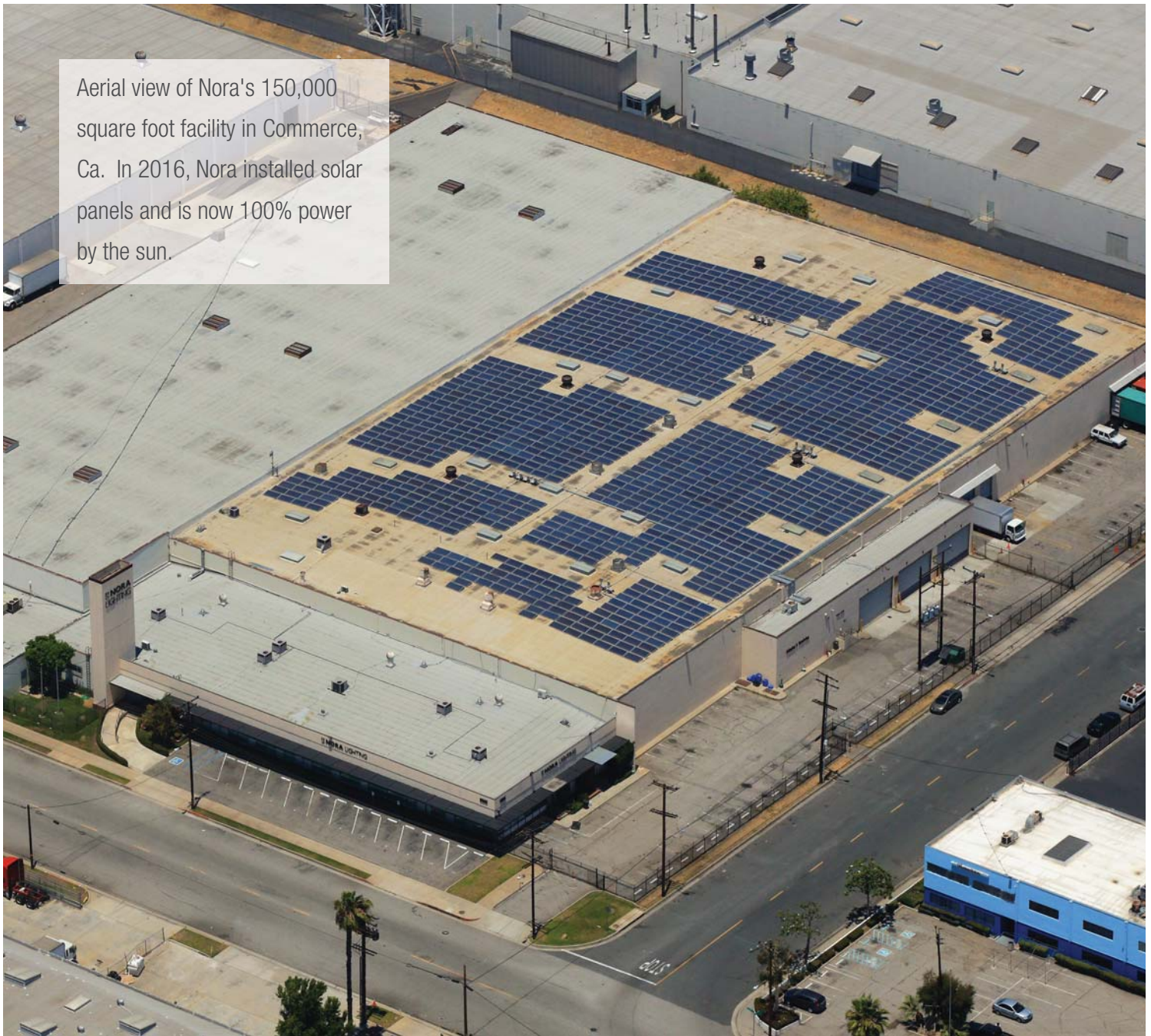
Nora Lighting is Committed to Green

Protecting the environment is an important responsibility and one that Nora Lighting takes seriously in the products we build and in our daily operations.

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Developing products to help you go Green

committed to GREEN

Since 2011, Nora Lighting has focused on the latest technology developing LED luminaires because they represent the standard in energy-efficient and eco-friendly lighting. In addition to the energy savings and long service life that brought LED luminaires to fame, LED's are also more environmentally friendly. They are free of toxic mercury, lead, and PCB's, and don't emit damaging UV rays and IR emissions.

With the rapid development of our LED product line, it is clear that a greener future has already become a reality. With products built to meet Title 24, DLC and ENERGY STAR requirements, Nora and NSpec LEDs can help you in achieving your green initiatives.

Reducing Our Operational Footprint

NORA REUSE — REDUCE • RECYCLE

At Nora Lighting, we are committed to reducing the environmental impact of our business operations. This includes reducing our energy consumption, maintaining a comprehensive recycling program, limiting manufacturing waste, and ensuring sustainable paper procurement and use. In fact, Nora Lighting is currently implementing its "Go Paperless Campaign" which aims at virtually eliminating the use of paper at all of our facilities.

We believe that by focusing on the sustainability of our daily operations, we build a strong foundation for incorporating environmental principles in our products.

Green Solutions for New Construction or Renovations

Lighting designers are at the forefront in specifying energy-efficient Nora fixtures for new and renovation installations. Here are the reasons why they "ask for Nora…"

· LEED points when installing Nora LED fixtures

· Green building compliance (elimination of mercury, lead or PCBs)

· Elimination of projected heat, ultra-violet rays and IR emissions

· Longer-lasting performance life

· Measurable cost savings over the life of the fixtures.

Lighting Applications

MEMORABLE, INVITING, PRACTICAL AND FUNCTIONAL
PERFECT ILLUMINATION IN ANY SPACE

RETAIL LIGHTING

Lighting in retail stores plays a critical role in the shopping experience. With proper lighting, the perceived quality of products and materials is substantially improved. LED luminaires help create a pleasant in-store ambiance, giving customers a reason to stay and make purchases, and to return later on.

Nora and NSpec's high lumen LED track & rail heads provide exceptional accent and spot lighting, while our LED combination lights and Sapphire Series of LED downlights offer general illumination with style. Our LED selection offers excellent color rendition, long life, and energy efficiency, which are critical for retail applications.

HOSPITALITY AND RESTAURANT

Regardless of the space - restaurant, bar, hotel, theater, or casino - lighting is what brings warmth, excitement, and comfort, creating a welcoming and enjoyable environment for patrons.

Every space has different lighting challenges and the flexibility of LED lighting solutions makes it an ideal light source. Whether it be general lighting, spot lighting, accent lighting, or task lighting, Nora and NSpec offer the versatility required to meet different design needs.

For example, you can transition a space from casual to romantic with the Comfort Dim option on our Marquise and Sapphire recessed lights, make your bar or entrance pop with Nora RGB tape light, modernize your hotel room with our Cobalt Square trims, or adorn your lobby with Nora LED pendants. Whatever the application, our LED luminaires create a designer look in every space.

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COMMERCIAL LIGHTING

Proper lighting in commercial environments - from workplaces and conference rooms, to auditoriums and multipurpose rooms - helps to increase productivity and creating the proper ambiance.

Our wide array of LED lighting products can light every corner of your commercial space. Achieve general illumination with our LED Edge-Lit Panel, Center Basket Troffer and Recessed, highlight small spaces with our LED undercabinet solutions, create spot lighting with LED Rail and Track, and illuminate exit paths with our LED exist signs. Whatever the task is, Nora and NSpec LED's can be used to illuminate it.

RESIDENTIAL

Lighting is a subtle tool with the power to transform any home. While it serves a functional purpose, it also is used to create the mood and atmosphere in every room in the home. Given its importance, lighting is also a significant portion of a homeowners energy cost and maintenance time.

Nora and NSpec LED luminaries both reduce the cost and maintenance required to keep the home warm and well-lit. Whether you are illuminating artwork, decorative coves, kitchen counters, bathrooms, or bedrooms, our family of LED products can make any home shine.

HEALTHCARE AND EDUCATIONAL

Light has an incredible effect on people – both biologically and emotionally. Used effectively in healthcare and educational facilities, it can enhance a student, patient, or physicians experience and play a key role in promoting well-being, focus, and learning. Lighting optimizes the healing and learning experience. This said, lighting is also a major expense for these institutions where budgets are extremely tight. This makes LED lighting an ideal source of light for healthcare and educational facilities.

Understanding CRI

90+ CRI

In general terms, CRI, or Color Rendering Index, is a measure of how accurately an artificial light source displays colors. CRI is measured by comparing the appearance of a colored object under an artificial light source to its appearance under incandescent light or sunlight.

CRI is rated on a scale from 1-100. The higher the CRI, the better the artificial light source is at rendering colors accurately. CRI is independent of color temperature or Kelvin. An LED with a color temperature of 3000K can have a CRI of 80+ or 90+.

CRI has become a critical determinate in the quality of LED light output. CRI ratings of 80+ are generally considered good and are required for ENERGY STAR certification. CRI ratings of 90+ are considered excellent and are a requirement of the new Title 24 2013 code.

In addition to Nora's LED tape and LED Lightbar the entire series of LED recessed downlights feature a 90+ CRI. Look for the logo to identify all 90+ CRI products in this guide.

CRI = 90

CRI = 80

CRI = 51

LED Quality and Color

Lumen Maintenance

Lumen maintenance compares the amount of light produced from a luminaire when it is brand new to the amount of light output at a specific time in the future. Lumen maintenance of LED luminaires is recorded as the amount of luminous flux output remaining after a defined number of hours (ie. 30,000 hrs). For instance, if a 1000Lm LED is classified with a lumen maintenance of 70 (LM70), this means that after 30,000 hours of use, the lumen output of the LED is 70% of what it was when it was first used, meaning the lumen output for the luminaire is 700 lumens.

Lumen maintenance corresponds to the quality of an LED luminaire. Currently, LM80 is the standard for individual LEDs should perform. Contact us directly for lumen maintenance data of our luminaires.

Get a Brighter White (True White)

CREE TRUE WHITE TECHNOLOGY

Powered by Cree TrueWhite® Technology, Nora Sapphire and Marquise downlights deliver a near perfect combination of the industry's best LED light quality and energy efficacy at a 90+ CRI. Cree TrueWhite® Technology mixes the light from red and unsaturated yellow LEDs to create beautiful, pure, white light. This approach enables active color management to maintain tight color consistency and color rendering over the life of the product. Paired with Nora deep cone reflectors, the result is beautiful, low profile, white light with exceptional performance using a fraction of the energy of traditional light sources—an ideal solution for high efficacy white light needs.

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Color Temperature

Color temperature is measured in Kelvin and represents whether a light source appears warm (1800K to 2800K), neutral (3000K to 3500K), or cool (4000K and up). While the Kelvin rating does not relate to the quality of light, color temperature is closely related to the visual comfort of a given space.

Nora and NSpec LED luminaires offer several possibilities in terms of color temperature, ranging from 2700K to 8000K.

2700K Warm Color

Warm temperatures most closely resemble the standard incandescent lamp. The warm temperature enhances reds and oranges and is considered the most comfortable light. Warm light is very popular in general or dining areas. 2700K is most flattering to skin tones. As a reference, 2700K is a typical incandescent lamp at full brightness, while 1800K is a warm candle glow. See Nora Comfort Dim for the best of warm temperature dimming.

2700K is available on Sapphire, Marquise, Iolite, Cobalt, Onyx and Opal Series downlights as well as LEDUR, Silk, and Tape linear products.

3000K - 3500K Neutral Color

Neutral temperatures cover the middle range of the Kelvin scale.   3000K is the most popular temperature choice in most general commercial areas and the first choice in residential applications, as warm temperatures make spaces more comfortable and people more relaxed. 3000K is comparable to the warmth of halogen sources while 3500K is a little cooler with greater enhancement of blues and greens.

3000K is available on Sapphire, Marquise, Iolite, Cobalt, Onyx and Opal Series downlights as well as LEDUR, Silk, and Tape linear products, Track, LED Panels and Troffers.

3500K is available on Sapphire and Marquise, Iolite and Cobalt downlights and LED Panels and Troffers.

4000K Cool Color

Cool temperatures most closely approximate daylight and are known to illuminate objects with sharper definition. This light is ideal for offices and classrooms, where cooler temperatures make reading easier, and for jewelry stores, where the cool light helps bring out the shine in diamonds and gems.

4000K is available on Sapphire, Marquise, , Iolite, Cobalt, Onyx and Opal Series downlights as well as LEDUR, Silk, and Tape linear products, Track, Rail, LED Panels and Troffers.

LED Products Overview

NEW!

2x2, 1x4, 2x4 LED Center
Basket Troffers
p. 27

2x2, 1x4, 2x4 Edge-Lit
LED Panels
p.29

NEW!

6" LED Cylinder & LED
Compatible Cylinder
p.33

NEW!

2", 3" & 5" LED Mini
Cylinder
p.37

Comfort Dim &
Warm Light Dimming
p.45

SAPPHIRE SERIES HIGH LUMEN COMMERCIAL LED DOWNLIGHTS

4" Architectural
LED Sapphire Series
p.48

4" Commercial
LED Sapphire Series
p.48

4" Remodel
LED Sapphire Series
p.48

6" Architectural
LED Sapphire Series
p.50

6" Commercial
LED Sapphire Series
p.50

6" Remodel
LED Sapphire Series
p.50

8" Architectural
LED Sapphire Series
p.54

8" Commercial
LED Sapphire Series
p.54

8" Remodel
LED Sapphire Series
p.54

NEW!

6" & 8" Sapphire Retrofit
Series
p.52 & p.56

MARQUISE SERIES HIGH LUMEN IC RATED LIGHT COMMERCIAL AND RESIDENTIAL LED DOWNLIGHTS

4" New Construction
LED Marquise Series
p.60

4" New Construction IC
LED Marquise Series
p.60

4" Remodel
LED Marquise Series
p.60

5" New Construction
LED Marquise Series
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5" Remodel
LED Marquise Series
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6" New Construction
LED Marquise Series
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6" New Construction IC
LED Marquise Series
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6" Remodel
LED Marquise Series
p.64

6" Marquise LED
850 Lumen LED Slope and
850-2000 Lm Adjustables
with Comfort Dim option
p.66-67

5"& 6" 850 Lumen LED
Marquise Retrofit
with Comfort Dim option
p.68

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LED Products Overview

IOLITE SERIES SMALL APERTURE + ADJUSTABLE LED DOWNLIGHTS

1" 600 Lumen
Iolite NTF Series
p.75

1" 600 Lumen
Iolite BWF Series
p.77

2" 800 Lumen
Iolite Series
p.79

4" 800 Lumen
Iolite Series
p.81

4" Retrofit 800 Lumen
Iolite Series
p.82

COBALT AND COBALT CLICK SERIES LED DOWNLIGHTS

4" 1000 Lumen
LED Cobalt
p.88

5" 1000 Lumen
LED Cobalt
p.89

6" 1000 Lumen
LED Cobalt
p.90

4" 750 Lumen
LED Cobalt Click
p.93

5" 750 Lumen
LED Cobalt Click
p.94

6" 750 Lumen
LED Cobalt Click
p.95

ONYX SERIES LED DOWNLIGHTS

4" 650 Lumen
Onyx LED Retrofit
p.98

5"/6" 750 Lumen
Onyx LED Retrofit
p.100

OPAL SERIES

6" Retrofit 1000/800 Lumen
Surface or Recessed Mount
p.104
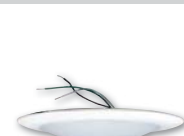
6" AC Retrofit 1050/800
Lumen Surface Mount
p.105

LED MULTIPLE LIGHTING SYSTEM (MLS) TRIMMED AND TRIMLESS

1-3 Module 850-9000 Lm
Multiple Lighting System
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LED Compatible (PAR, PAR
CMH, Low Voltage) MLS
p.109

1-3 Module 2000-6000 Lm
Trimless MLS
p.112

LED Compatible (PAR, PAR
CMH, Low Voltage) Trimless
MLS   **p.113**

LED STEP LIGHTS

Mia Die-Cast Mini
LED Step Lights
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Mini LED Step Lights
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Brick Die-Cast LED Step Lights
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LED Step Lights
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LED Products Overview

24V LED SILK SBC Lightbar
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LED 120V LEDUR
Under Cabinet
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LED 120V Bravo Frost
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0.5W 39 Lumen
LED Flex Light
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1.0W 105 Lumen
LED Flex Light
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1.5W 129 Lumen
LED Flex Light
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0.72W RGB
LED Flex Light
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12V / 24V Standard
Wet Label LED Tape Light
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24V Standard
Damp Label LED Tape Light
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24V Standard
Side-Lit LED Tape Light
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24V Hy-Brite
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24V High Output
LED Tape Light
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12V/24V RGB Color
Changing LED Tape Light
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24V CCT Tuning LED Tape
Light
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24V RGBW Color Changing
LED Tape Light
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24V Continuous LED Tape
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12V LED Puck Light
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LED DRIVERS

LED Drivers & Accessories
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LED TRACK LIGHTING

Revo Remote Control
PAR Track Head
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LED Linear Flood
T-Wash Track Head
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35W LED Aiden Vetical
Track Head
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15W LED Aiden Vetical
Track Head
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10W LED Aiden Horizontal
Track Head
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LED TRACK LIGHTING continued

18W LED
Pillar Track Head
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18W, 28W & 36W Jason
LED Track Head
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18W, 28W & 36W Jason
LED Track Head
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12W/23W LED
Cori Track Head
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9W LED
Robo Track Head
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3W-50W Versa V-Tech
Single Track Head
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3W-50W Versa V-Tech Dual
Track Head
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3W-50W Versa MR16 LED/
Halogen Cylinder Track Head
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3W-50W Versa MR16 LED/
Halogen Gimbal Ring Track
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3W-50W Versa MR16 LED/
Halogen Wireback Track
Head **p.171**

3W-50W Versa MR16 LED/
Halogen Roundback Track
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Metro™ Track Head 3-6W
GU10 MR16 LED
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Italia™ Track Head 3-6W
GU10 MR16 LED
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Architectural Cylinder
7-20W GU10 LED
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Lamp Holder with
7-20W PAR LED
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12W PAR30 LED
17-20W PAR38 LED
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Gimbal Ring
7W PAR20 LED
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Gimbal Ring
12W PAR30 LED
17-20W PAR38 LED
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Truly Universal™ Holder
7-20W PAR LED
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Shroud
13-20W PAR30
or 175 LED
p.300

Architectural Cylinder
13-20W PAR20 LED
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Architectural Cylinder
13-20W PAR30 LED
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Duet Dual Head with
PAR30 LED
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Duet Dual Head with
PAR38 LED
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LED Products Overview

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Rail Fixture
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20W CYLO LED
Rail Fixture
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30W CYLO LED
Rail Fixture
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9W LED Robo
Rail Fixture
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Versa MR16 LED/Halogen
Argon Curve Rail
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Versa MR16 LED/Halogen
Argon Swivel Rail
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Versa MR16 LED/Halogen
Sienna Ring Rail
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Versa MR16 LED/Halogen
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3-6W GU10 MR16 LED
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Neat Rail Fixture
3-6W GU10 MR16 LED
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Ives Gooseneck
3-6W GU10 MR16 LED
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Fili Display Rail
3-6W GU10 MR16 LED
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Ulysses Fixture
PAR20, PAR30, PAR38 GU10
MR16 LED
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Belgium Rail Fixture
12W PAR30 LED (Short Neck)
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Belgium Rail Fixture
20W PAR38 LED
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Gimbal Ring
7W PAR20 LED
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Gimbal Ring
12W PAR30 LED
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Gimbal Ring
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Universal Holder
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Exhibit Display
3-6W GU10 MR16 LED
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14W LED Pendant
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Glass
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Decorative Glass
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LED Exit Sign
LED Exit & Emergency
Combo
p.210

LED Emergency
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NSpec, the newest division of Nora Lighting, is focused on the development of product that meets the criteria of the architectural, specification and design community. NSpec products feature material and components intended for use in commercial applications. Design with optics using photometric data to achieve the most efficient use of the light source while meeting or exceeding industry standards. NSpec products are built and developed to provide optimal visual comfort and consistency in performance.

NSPEC
ARCHITECTURAL LIGHTING

A Division of Nora Lighting

LED TROFFERS

LED CENTER BASKET TROFFER

2X2, 1X4 AND 2X4 · NEW CONSTRUCTION, REMODEL AND RETROFIT

NEW!

NPTCB-E22

Architectural simplicity defined by curves and straight lines

NEW!

NPTCB-E24

NEW!

NPTCB-E14

23.83"

23.83"

47.83"

23.83"

47.83"

11.8"
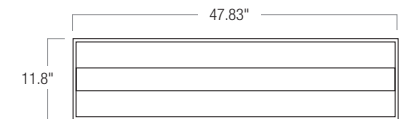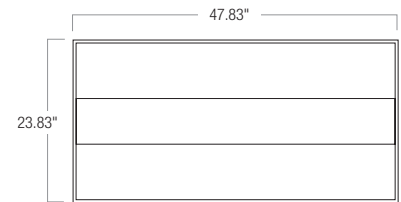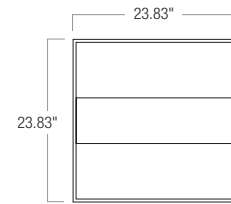
LED CENTER BASKET **TROFFER**

CATALOG NO.	CONFIGURATION	WATTAGE	COLOR TEMP	FINISH	OPTION
NPTCB-E	**14** 1' x 4' **22** 2' x 2'	33W	**30** 3000K **35** 3500K	**W** White	**EM** Emerg. Battery w/ Remote Test Switch
	24 2' x 4'	52W	**40** 4000K **50** 5000K		

*Example: **NPTCB-E2235W** - 2x2 LED Center Basket Troffer, 3500K, White Finish*

NSpec's energy-efficient and economical Center Basket LED Troffer produces an incredible amount of smooth and uniform general lighting. The fixtures include a diffused, removeable lens, a hinged access plate with LED board and built-in earthquake clips. The shallow housing design and easy access wiring plate make the Center Basket Troffer a quick installation. Ideal for use in task areas where general illumination is desired such as offices, schools, conference rooms, libraries, retail, hospitals and others.

DESIGN PERFORMANCE FEATURES:

· Available in 2' x 2', 1' x 4' and 2' x 4' configurations
· Four CCT options: 3000K, 3500K, 4000K and 5000K
· 1' x 4' and 2' x 2' - 32W and 3600 Lumens
· 2' x 4' - 52W and 6100 Lumens
· Fits most 1'x4', 2'x2', 2'x4' grid ceilings
· Removeable diffused lens evenly distributes light and maximizes performance
· Two replaceable LED Strips with tightly spaced diodes eliminate diode image
· Enclosed driver compartment easily accessible from below via hinged LED platform
· Built-in earthquake clips
· Dimmable with compatible 0-10V dimmer
· 100-277V
· 5-Year limited warranty
· cULus Damp Location Listed; DLC listed

LIGHTING TIP

Nora offers LED Edge-Lit Flat Panels and Center Basket Troffers. Use Center Basket Troffers in featured areas such as lobbies, meeting rooms and work centers to create an architectural element. Use Edge-Lit Flat Panels in areas such as lunch rooms, back halls, restrooms, accounting areas, labs, gyms and, residentially in closets, pantries, laundry rooms, crafts room or frame in as skylight.

LED PANELS

LED EDGE-LIT PANELS
2X2, 1X4 & 2X4 · NEW CONSTRUCTION, REMODEL AND RETROFIT

NPD-E24

NPD-E14

NPD-E22

47.75"

23.75"

47.75"

11.75"

23.75"

23.75"
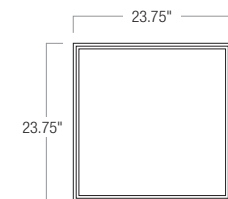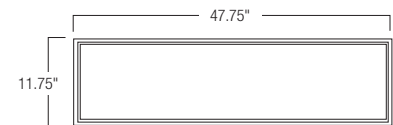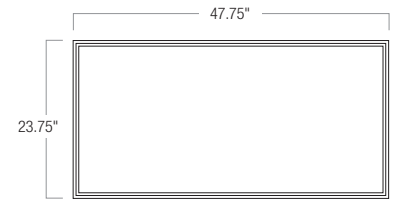
LED EDGE-LIT **PANELS**

FRAME TYPE	SIZE	TEMP	FINISH
NPD Panel, Diffused Lens	**E22** 2x2 84 CRI / 38 Watts / 3000 Lumen / 120/277 Volt **E14** 1x4 84 CRI / 36 Watts / 3300 Lumen / 120/277 Volt **E24** 2x4 84 CRI / 59 Watts / 5000 Lumen / 120/277 Volt	**/30** 3000K **/35** 3500K **/40** 4000K **/50** 5000K	**A** Aluminum

*Example: **NPD-E22/40A** - 2x2 LED Edge-Lit Panel, 4000K, 0-10V Dimmable, Aluminum Finish*

The NSpec Edge-Lit Panels feature an opalescent lens that produces a luminous glow without glare. The panels effectively illuminate an area with 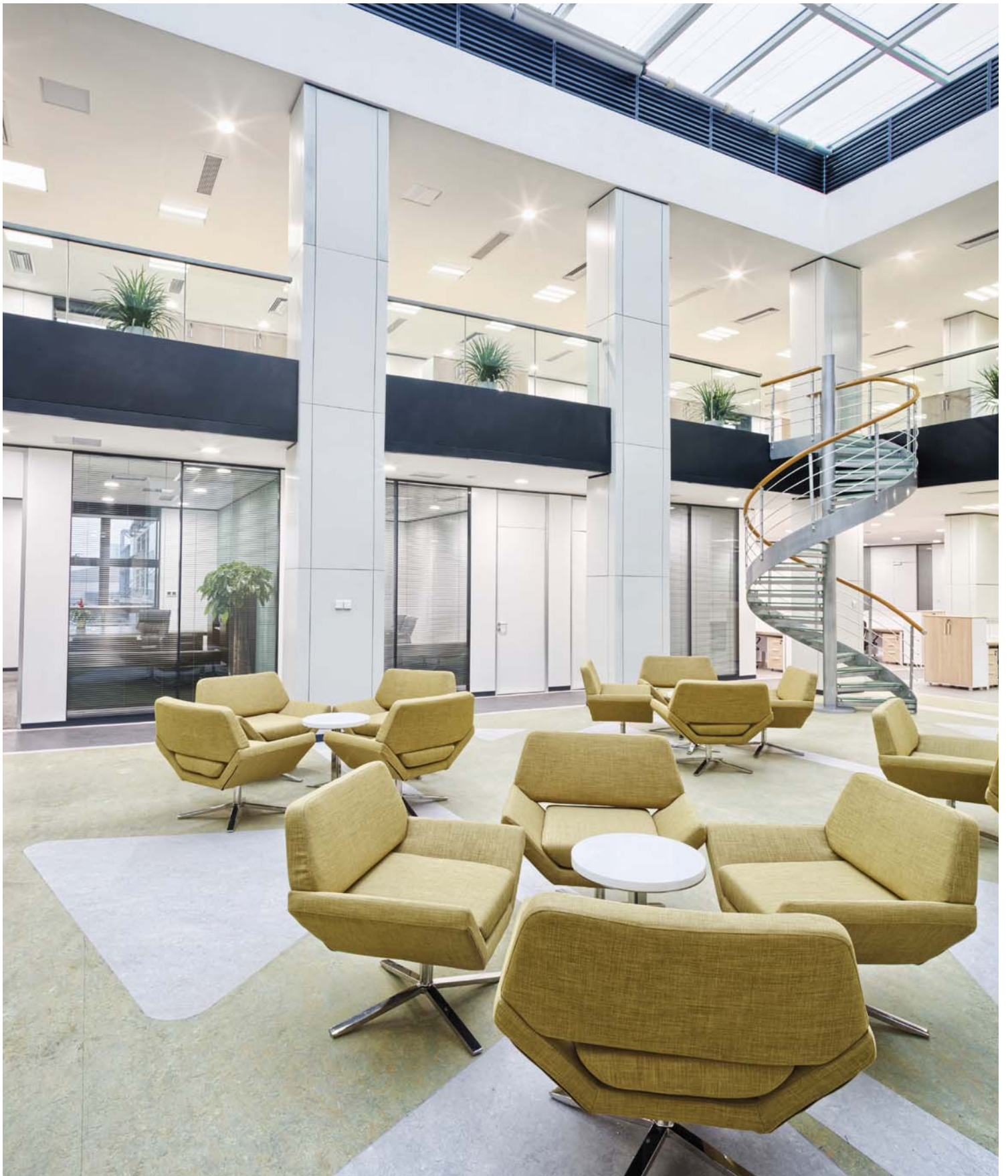ambient upper light while also projecting foot candles to work surface. The LED Edge-Lit panels are energy efficient choices for offices, retail stores, conference rooms, libraries, high-end homes, and other areas where over all even illumination is required.

DESIGN PERFORMANCE FEATURES:

· Available in 2' x 2', 1' x 4' and 2' x 4' configurations
· NPD - Diffused matte white opalescent lens
· Four CCT options: 3000K, 3500K, 4000K and 5000K
· 1' x 4' - 36W and 3300 Lumens
· 2' x 2' - 38W and 3000 Lumens
· 2' x 4' - 59W and 5000 Lumens
· Sealed optics- no maintenance
· Replaces 2' x 2', 1' x 4' or 2' x 4' ceiling panel for easy installation
· Aluminum finish frame
· Mounting kits available for pendant, surface or recessed hard ceiling
· Dimmable down to 5% with compatible 0-10V dimmer
· L70 at 50,000 hours
· 10-Year limited warranty
· cULus – damp location listed; CEC and DLC listed

LIGHTING TIP

While typically thought of as a commercial product, LED panels are an excellent choice for general lighting in residential applications. LED Panels are well suited to areas such as master closets, pantries, home gyms, and laundry, kitchen, bathroom or craft rooms or recessed to simulate a skylight.

LED EDGE-LIT PANELS
ACCESSORIES

Surface Mounting Frame for LED Panels

NPD-14DFK/A	1 x 4 Aluminum
NPD-22DFK/A	2 x 2 Aluminum
NPD-24DFK/A	2 x 4 Aluminum

Clean sharp edges in a natural aluminum finish. Frame mounts over an existing J-Box and panel slides into place. Surface frame extends only 2.5" from the ceiling. May be used with NPD-PK pendant kit.
Note: J-box must be off center frame.

Recessed Mounting Kit for LED Panels and Center Basket Troffers

NPD-14RFK/W	1 x 4
NPD-22RFK/W	2 x 2
NPD-24RFK/W	2 x 4

The white finished flange kit consist of 4 pieces. The assembled frame installs into a hard ceiling. The LED panel or center basket troffer lifts and shifts in the frame ending in a finished flush appearance.

Shown with pendant mount kit, surface mount frame, and 2x2 panel

Universal Pendant Mounting Kit for LED Panels

NPD-PK

Includes canopy, cords and cables

Allows LED panel to be suspended as a pendant. Brushed aluminum finished canopy has four hanging points for 2x2 unit and six for 1x4 and 2x4 units. Grip lock fasteners allow field adjustment of cables from 12" to 96". Canopy includes an 8' power cord that can be shortened in the field. Pendant kit may be used with surface frame as shown above.

PHOTOMETRICS

APPLICATION REFERENCE
2x2 Edge-Lit Panel v.s 2x4 Edge-Lit Panel
Based on 50' x 40' & 9' Ceiling

O.C Spacing	Lumens	Wattage	LPW	w/sq.ft.	Average FC	No. of Fixtures
8 x 8	3237	36	90	0.54	49	30
	5179	59.5	87	0.89	78	30
8 x 10	3237	36	90	0.45	40	25
	5179	59.5	87	0.74	64	25
10 x 10	3237	36	90	0.36	32	20
	5179	59.5	87	0.6	52	20
10 x 12	3237	36	90	0.29	26	16
	5179	59.5	87	0.48	42	16

Based on: 9' MTG HT, 2.5' AFF, 80/50/20 REF. + initial FC.
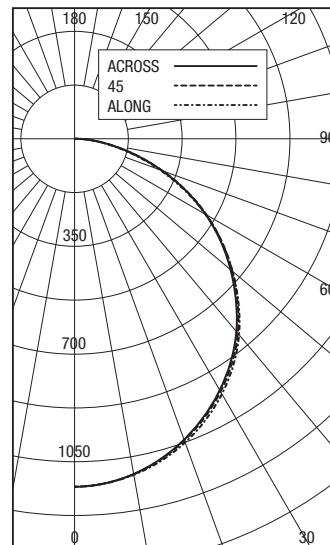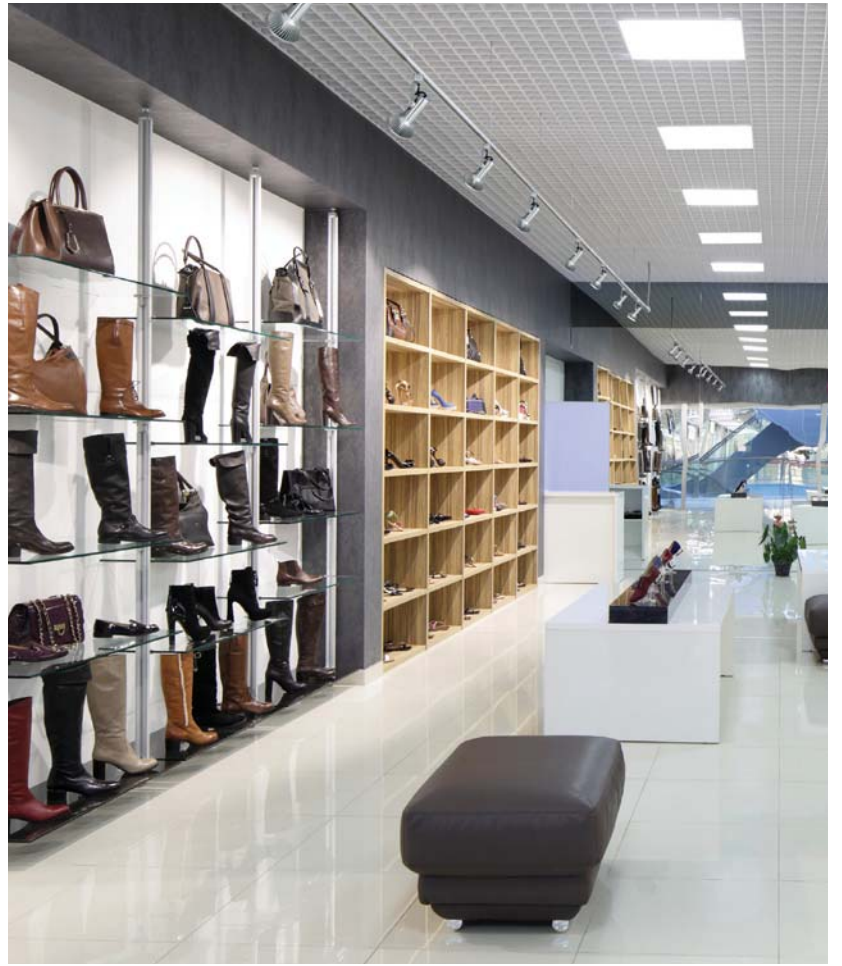
NORA | NSPEC®

CYLINDERS

FOUR MOUNTING STYLES

14.5"

5-3/4"

7-5/8"

Cable Mount   Pendant Stem Mount   Surface Mount   Wall Mount

6" HIGH PERFORMANCE **LED CYLINDER**

FAMILY	MOUNTING	LUMEN	TRIME TYPE	COLOR TEMP	TRIM COLOR	CYLI. COLOR	DIMMING
NYLS-6	**C** Cable **P** Pendant Stem **S** Surface **W** Wall Mount	**8** 850 **1** 1250 **2** 2000* **3** 3000* **4** 4000*	**1** Reflector **2** Reflector for Deco Glass	**27** 2700 **30** 3000 **35** 3500 **40** 4000 **CD** Comfort Dim†	**DB** Diffused Clear/Black Flange **DW** Diffused Clear/White Flange **HB** Haze/Black Flange **HW** Haze/White Flange **WW** White/White Flange	**B** Black **W** White	**1** 120V Triac (850-1250lm) 120V Non-Dim (2000-4000lm) **2** 277V **4** 120V Triac or 0-10V / 277V 0-10V

*Example: **NYLS-6C85127HBB** - 6" Cylinder LED High Performance Cable Mounting Reflector, 850 Lumens, 2700K, Haze Reflector and Black Cylinder*

T- Specifies 120/277 Triac dimming driver for 2000, 3000 and 4000 Lumen. If dimming is not required use 1 for 120V or 2 for 277V (Note: 850 and 1250 Lumen are standard triac dimming.)

*For Dimming - Consult factor   † Comfort Dim only available on 850 & 1250 Lumen

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Architectural grade LED High Lumen Cylinder Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm = 8.76W,   3000lm = 30.93W,
1250lm = 12.88W,   4000lm = 41.10W
2000lm = 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0°C~50°C (32°F~122°F)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
Cylinder Cap: High quality 0.040" steel cap with universal slots to allow for direct mounting into J-Box for surface mount. Incorporates all thread in the center for the installation of a cable or pendant rod kit for the corresponding mounting method. Three screws on the bottom of cap secure cylinder body to cylinder cap. (Adjustable with flathead screw drive).
Cylinder Body: 0.040" steel cylindrical body with three keyhole slots allowing body to be installed to cylinder cap. Spring brackets accept torsion wing trim springs. Four butterfly clips also accommodated for spring-less trims.

INSTALLATION:
Mounting: Cable Mount consist of center mounted aircraft cable and offset cable (5-wire) for power and dimming. **Stem Mount** includes canopy and 7' (consisting of three 12" and two 24" pieces) of internally threaded rod and cylinder. 0-10V dimming spec will include a separate offset cable (2-wire) **Surface Mount** and **Wall Mount** supplied with hardware to mount directly to J-box.
Quick Connector: The reflector LED module installs into the Cylinder body with supplied quick connector.

DIMMING:
Standard Dim: 120V Triac (850 and 1250) or 120V Non-Dim (2000, 3000, 4000)
277V: 277V Non-Dim (850 to 4000)
Universal: 120V Triac or 0-10V / 277V 0-10V (850 to 4000)

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)

LISTING:
cULus Listed for Wet Location (wall mount only)
cULus Listed for Damp Location

WARRANTY:
5-Year Limited Warranty

CREE® LEDs | 90+ CRI | DAMP | COMFORT DIM | RoHS COMPLIANT | R9 80+

cULus LISTED | NORA 5 YEAR LIMITED WARRANTY ENERGY STAR | ASSEMBLED IN USA | COMMITTED TO GREEN | DIM | lighting facts

6" CYLINDER **STANDARD LED**

FOUR MOUNTING STYLES

Cable Mount   Pendant Stem Mount   Surface Mount   Wall Mount

14.5"

5-3/4"

7-5/8"
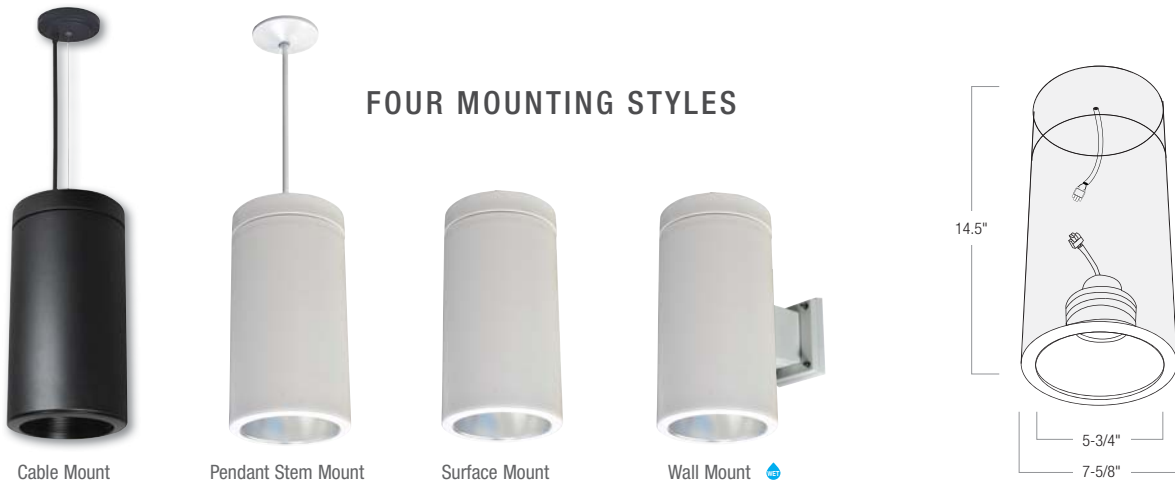
6" STANDARD **LED CYLINDER**

FAMILY	MOUNTING	LUMEN	TRIME TYPE	COLOR TEMP	TRIM COLOR	CYLINDER COLOR	
NYLD-6	**C** Cable **P** Pendant Stem **S** Surface **W** Wall Mount	**9** 1000	**1** Reflector **2** Baffle **8** Reflector for Deco Glass	**27** 2700 **30** 3000 **40** 4000	**DB** Diffused Clear/Black Flange **DW** Diffused Clear/White Flange **HB** Haze/Black Flange **HW** Haze/White Flange **WW** White/White Flange	**B** Black **W** White	

*Example: **NYLD-6P9130WWW** - 6" Cylinder with Dedicated Intergral Driver, Pendant Rod, Mounting Reflector, 1000 Lumens, 3000K, White with White Flange Trim and White Cylinder*

Architectural grade LED High Lumen Cylinder Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
1000lm = 16.6W
Color Rendering Index: 90+ CRI
Color Temperature: 2700K, 3000K, 4000K
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
Cylinder Cap: High quality 0.040" steel cap with universal slots to allow for direct mounting into J-Box for surface mount. Incorporates all thread in the center for the installation of a cable or pendant rod kit for the corresponding mounting method. Three screws on the bottom of cap secure cylinder body to cylinder cap. (Adjustable with flathead screw drive).

Cylinder Body: 0.040" steel cylindrical body with three keyhole slots allowing body to be installed to cylinder cap. Spring brackets accept torsion wing trim springs. Four butterfly clips also accommodated for spring-less trims.

INSTALLATION:
Mounting: Cable Mount consist of center mounted aircraft cable and offset cable (5-wire) for power and dimming. Stem Mount includes canopy and 7' (consisting of three 12" and two 24" pieces) of internally threaded rod and cylinder. Surface Mount and Wall Mount supplied with hardware to mount directly to J-box.
Quick Connector: The reflector LED module installs into the Cylinder body with supplied quick connector.

DIMMING: Compatible with standard leading and trailing edge dimming technologies.
Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet

minimum dimmer load. Consult with dimmer manfacturer.

DIMMING OPTIONS: White light dimming

LISTING:
cULus Listed for Wet Location (wall mount only)
cULus Listed for Damp Location

WARRANTY:
5 Year Limited Warranty

LED CYLINDER

MEDIUM BASED INCANDESCENT / LED 6" CYLINDER

14.5"

5-3/4"

7-5/8"

FOUR MOUNTING STYLES

Cable Mount   Pendant Stem Mount   Surface Mount

6" INCANDESCENT MEDIUM BASE **LED COMPATIBLE**

FAMILY	MOUNTING	LAMP SOURCE	TRIME TYPE	TRIM COLOR	CYLINDER COLOR
NYLI-6	**C** Cable **P** Pendant Stem **S** Surface **W** Wall Mount	**I** Incandescent (300W Max PAR Lamp) **L??** LED Specified Wattage Max *Unit will be labeled with a specified maximum wattage.*	**1** Reflector **2** Baffle	**BB** Black/Black Flange **WW** White/White Flange	**B** Black **W** White

*Example: **NYLI-6SL201WWW** - 6" Surface Mounted Cylinder, Medium Base, Labeled as 20W max, White Reflector Trim and White Cylinder*

Architectural grade LED High Lumen Cylinder Downlights featuring deep cone reflectors. 6" Cylindrical surface or pendant fixture. Deep set medium base socket attaches to deep reflector or baffled cone for optimal visual comfort. 2-piece cylinder allows for easy installation. Use with Incandescent BR/PAR lamps or with energy efficient long life LED BR/R/PAR lamps.

ELECTRICAL:
Lamp: cULus Listed for up to 300 watt max. R/BR/ PAR style lamp. For PAR30 use long neck version.

CONSTRUCTION:
Cylinder Cap: High quality 0.040" steel cap with universal slots to allow for direct mounting into J-Box for surface mount. Incorporates all thread in the center for the installation of a cable or pendant rod kit for the corresponding mounting method. Three screws on the bottom of cap secure cylinder body to cylinder cap (adjustable with flathead screw driver).

Cylinder Body: 0.040" steel cylindrical body with three keyhole slots allowing body to be installed to cylinder cap. Spring brackets accept torsion wing trim springs. Four butterfly clips also accommodated for spring-less trims.

INSTALLATION:
Mounting: Cable Mount consist of center mounted aircraft cable and offset cable (5-wire) for power and dimming. Stem Mount includes canopy and 7' (consisting of three 12" and two 24" pieces) of internally threaded rod and cylinder. Surface Mount and Wall Mount supplied with hardware to mount directly to J-box.
Quick Connector: The reflector installs into the Cylinder body with supplied quick connector.
Socket Assembly: Medium base floating socket attaches to trim.

DIMMING: Varies with lamp source

LISTING:
cULus Listed for Wet Location (Wall Mount only)
cULus Listed for Damp Location

WARRANTY:
5 Year Limited Warranty

LED MINI CYLINDER

2", 3" AND 5", 1000 TO 2000 LUMENS   iLENE LED PENDANT

8-1/2'

2C 5-7/8"
3C 6-3/4"
5C 7-7/8"

2C 2-3/8"
3C 3-3/4"
5C 5-1/2"

NYLM-2C   **NYLM-3C**   **NYLM-5C**
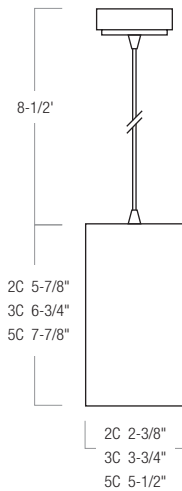
ILENE LED MINI CYLINDER PENDANT

FAMILY	SIZE	COLOR TEMP	BEAM SPREAD	FINISH	DRIVER OPTIONS
NYLM-	**2C** 2" **3C** 3" **5C** 5"	**27*** 2700 **30** 3000 **40** 4000	**X** 25˚, 38˚, 60˚	**BB** Black **SS** Silver **WW** White	**LE3*** 120V Triac/ELV dimming **LE4** 120V Triac or 0-10V / 277V 0-10V

*Example: **NYLM-3C30XBBLE4** - 3" iLENE Mini Cylinder LED Pendant, 3000K, 25˚, 38˚ and 60˚ Reflectors, Black Finish, 120V Triac or 0-10V Dimming*

* LE3 and 27K only available on 2" LED Ilene

Nora/Nspec's iLENE Series of dedicated LED Mini Cylinder Pendants is available in three sizes and outputs. Using Cree COB technology, the iLENE produces 90+ CRI with excellent cut-off for visual comfort. Each cylinder includes three field-changeable reflectors for spot, narrow flood and flood beam spreads. Flood beam spread installed at factory. iLENE is available in three kelvin temperatures and Black, Silver and White finishes.

ELECTRICAL:
Voltage: 120V or 277V AC
Lumens / Power Consumption:
1000lm = 14W
1500lm = 25W
2000lm = 35W
Color Rendering Index: 90+ CRI
Color Temperature: 2700K*, 3000K, 4000K
Life Expectancy: 50,000 Hours

CONSTRUCTION: iLENE Mini Cylinder features a heavy gauge tube of die-cast aluminum with deep set optics. The unit is suspended by a field adjustable coaxial cable. The driver is mounted in the canopy.
Optic: Each iLENE Cylinder includes three field-changeable reflectors for spot, narrow flood and flood (installed) beam pattern.

INSTALLATION:
Mounting: Mounts over a standard fixture ceiling box.

DIMMING:
LE3- 120V Triac/ELV (Only available on NLYM-2C)
LE4 - 120V Triac/ELV or 0-10V / 277V 0-10V

LISTING:
cULus Listed for Damp Location

WARRANTY:
5 Year Limited Warranty

CREE LEDs | 90+ CRI | DAMP | RoHS COMPLIANT | R9 80+

cULus LISTED | ENERGY STAR | NORA 5 YEAR LIMITED WARRANTY | COMMITTED TO GREEN | DIM | lighting facts

RECESSED

NSpec and Nora proudly introduce

THE MOST COMPLETE LINE OF
LED DOWNLIGHTS

ARCHITECTURAL · COMMERCIAL · RESIDENTIAL · RETROFIT

NSPEC SAPPHIRE SERIES
Architectural and Commercial LED Downlights

A **high efficiency commercial series** available in **850 to 8000** lumen packages in **2700K, 3000K, 3500K, 4000K and Comfort Dim**. The LED package features Cree TrueWhite® patented technology which adjusts LEDs to produce consistent light over the life of the product. Featuring deep cone reflectors in 4", 6" and 8" apertures in commercial, architectural, remodel and retrofit style frames.
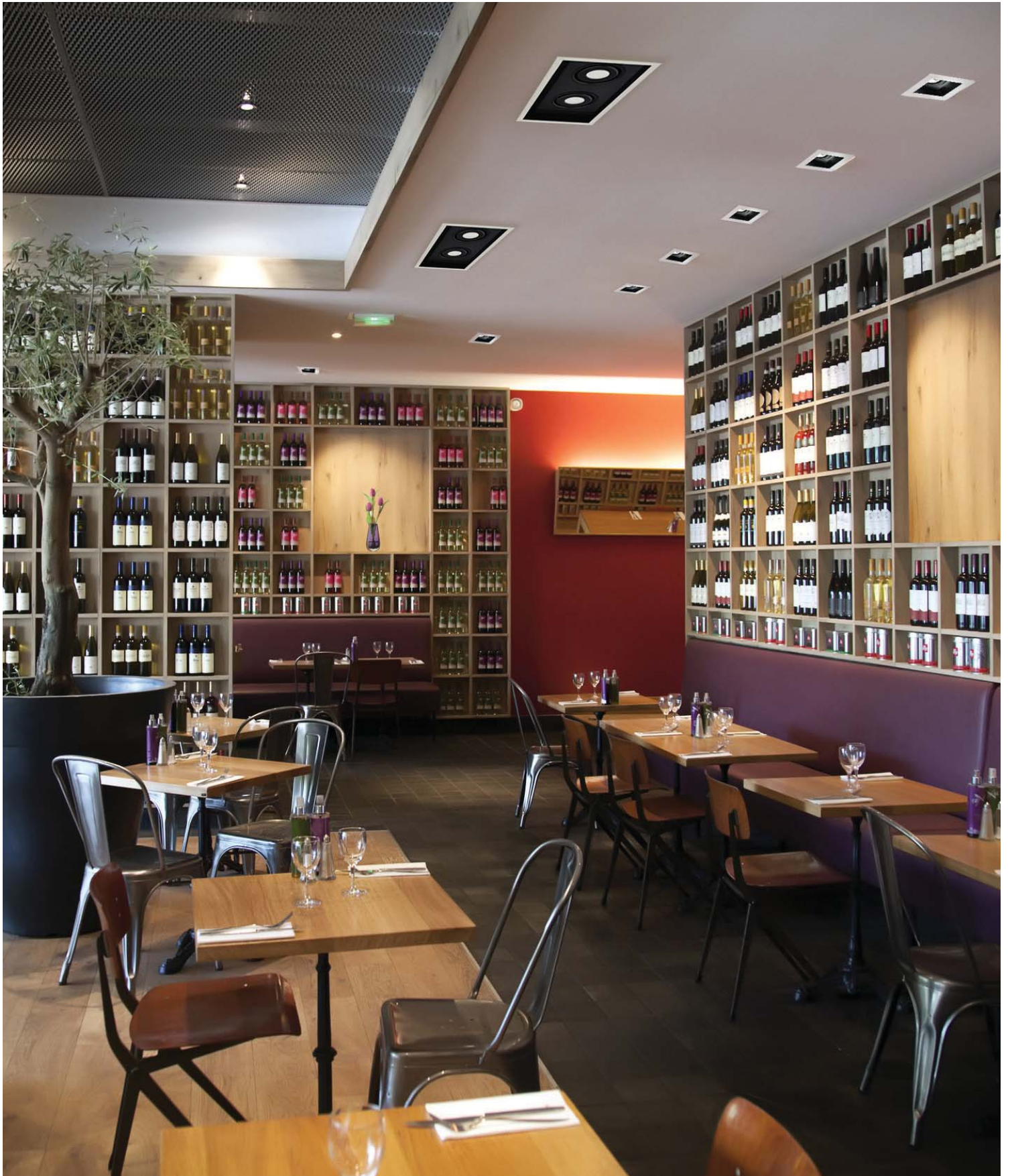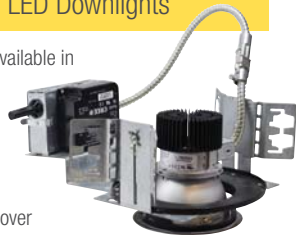
NORA MARQUISE SERIES
Light Commercial and High-End Residential

Utilizing the same Cree TrueWhite® LED and driver packages as the NSpec Sapphire Series, the Marquise Series feature LED packages for **light commercial and high-end residential IC and Non-IC** applications up to **2000** lumens in 2700K, 3000K, 3500K, 4000K and Comfort Dim options. Featuring deep reflectors in seven finishes and in 4", 5" and 6" apertures, Marquise downlights are suitable in retrofit, new construction, and remodel applications.

NORA IOLITE SERIES
1" Downlight, 2" + 4" Adjustable Modular LED

1"downlight, 2" and 4" adjustable modular LED downlights dedicated and retrofit LED adjustable downlights in square and round designs. The **Iolite modular system allows users to field change both the trim and beam pattern without using any tools**. The Iolite LED CREE COB module is 9W/14W and produces 600/800 lumens at 95CRI in various kelvin temperatures. The modules can be used with round and square trims and secure a field changable reflector for beam spread control. The Iolite is available for dedicated IC new contruction and remodel and 4" retrofit applications.

NORA COBALT SERIES
LED Retrofit, New Construction and Remodel

cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others, the Cobalt Series 4", 5" & 6" provides 750 & 1000 Lumen output, drawing 12W & 16W and rendering 95CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

NORA ONYX SERIES
LED Retrofit, New Construction and Remodel

Nora Lighting's new Onyx Series offers an economical quality solution to LED Retrofit Downlighting. Deep-set optics produce visual comfort in 4" and 5"/6" apertures. The Onyx produces 90+ CRI for true vibrant color rendition. Adjustable, baffle and reflector styles blend with popular trims and create an uniform ceiling appearance. The 4" 650 lumen/10 watt and 5/6" 750 lumen/12 watt units are unit is compatible with Nora's dedicated LED housings to meet energy rebate requirements, as well as Nora's medium base housings and housings by others.

NORA OPAL SERIES
LED Surface or Recessed Mount

The Opal Series LED fixture is designed to surface mount over a standard J-Box or is suitable for use with a 5" or 6" recessed housing by Nora or others. The Opal produces even illumination with no diode image, from bright to dim. The low profile unit is cULus wet listed and produces 1000 and 800 lumens at 90+ CRI. Available in three finishes, with AC or DC LEDs, the Opal is an excellent energy efficient lighting solution for laundry rooms, closets, pantries, hallways and showers in residential and commercial retrofit or new construction applications.

NORA FIRE BOX SERIES
2-Hour Fire Rated Housing

Nora Lighting's new specification-grade, fire-rated, new construction recessed downlight was designed to meet strict fire safety codes in commercial, multi-family and residential applications. The cULus listed double wall fixture incorporates a non-combustible fiber insulation to prevent the passage of flames, toxic gases, and ignitable gasses into ceiling plenums and is rated for a minimum of 2 hours protection. In addition, the non-combustible fiber fill acts as sound-deadening material, eliminating the transfer of sound between floors, excellent for use in home theaters. Can be specified with the Nora Marquise, Iolite, Cobalt and Onyx fixtures.
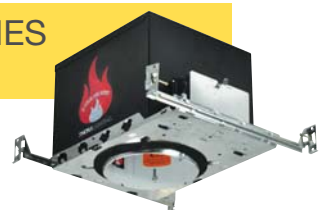
LED DOWNLIGHTS COMPARISON CHART

Series	SAPPHIRE	MARQUISE	IOLITE	COBALT	ONYX	OPAL
Use	Architectural, Commercial	High-End Residential, Light Commercial	Adjustable and Small Aperture Residential and Commercial	Residential, Light Commercial	Residential, Light Commercial	Surface or Recessed Mount
Lumen	850 to 8000	850 to 2000	600 and 800	750 and 1000	650 and 750	800 and 1000
CRI	90+	90+	90+	90+	90+	90+
Kelvin	2700, 3000, 3500, 4000	2700, 3000, 3500, 4000	2700, 3000, 3500, 4000, 5000	2700, 3000, 3500, 4000	2700, 3000, 4000	2700, 3000, 4000
Comfort Dim 2700K - 1800K	Yes (850 to 3000 Lm)	Yes (850 to 2000 Lm)	Yes (3000K to 1900K)	No	No	No
LED Technology	Cree TrueWhite®	Cree TrueWhite®	Cree® COB or Premium non-Cree COB (Comfort Dim)	Cree COB	Samsung	See spec sheet
Ceramic Platform	Yes	Yes	Yes	Yes	No	N/A
Lumen per Watt	100 / 85	100 / 85	60 to 70	60 to 70	60 to 70	60 to 70
Apertures	4", 6", 8"	4", 5", 6"	1", 2", 4"	4", 5", 6"	4", 5"/ 6"	6"
Reflector Style	Dedicated Deep Cone & Wall Wash	Dedicated Deep Cone & Adjustable	Deep Cone, Adj. Gimbal Regressed & Deep Regress (4 Beam Spreads)	Deep Cone, Square	Deep Cone, Adjustable	N/A
Reflector Finishes	B, DW, H, W	BW, BZ, CO,DW, HZW, NN, WW	BZ, HZW, NM, MPW, WW	BW, BZ, CO, DW, HZW, NN, WW	WW	BZ, NM, W
IC Rated	No	Yes	Yes	Yes	Yes	Yes
Retrofit Available	Yes	Yes (850 Lumen)	Yes (only 4")	Yes	Yes	Yes
New Construction	Yes	Yes	Yes	Yes	Yes	Yes
Remodel	Yes	Yes	Yes	Yes	Yes	Yes
Fire Box Compatible	No	Yes	Yes	Yes	Yes	Not Applicable
Dimmable	Yes - Triac & 0-10V	Yes - Triac & 0-10V	Yes - Triac & 0-10	Yes - Triac & 0-10	Yes - Triac	Yes - Triac
Available in 277V	Yes	Yes	Yes	Yes	No	No
cULus Wet Listed	Yes	Yes	Yes	Yes	Yes	Yes
Assembled in USA	Yes	Yes	Yes	No	No	No
Limited Warranty	10 Year	5 year	5 Year	5 Year	5 Year	5 Year
Cost	$$$	$$$	$$	$	$	$

NORA | NSPEC®

LEDs for Any Application

Residential, restaurants and retail; shopping malls and showrooms; hospitals and hospitality, atriums and airports—no matter what your space, NSpec and Nora Lighting LED downlights with Cree integrated driver and True White LED packages can significantly reduce the Lighting Power Density (LPD) without compromising quality of light.

Specify NSpec LED downlights with the lumen output you need to simplify your design process and achieve consistent, full-spectrum lighting for your space.

NSPEC SAPPHIRE AND NORA MARQUISE LIGHTING EQUIVALENTS

15' - 40' CEILINGS
4000* Lumen 38W LED
250W Halogen
57W CFL, 2 x 32W CFL
70W HID

15' - 30' CEILINGS
3000 Lumen 31W LED
42W CFL, 2 x 26W CFL
50W HID

10' - 20' CEILINGS
2000 Lumen 21W LED
150-250W Incandescent
32W CFL
39W HID

8' - 12' CEILINGS
1250 Lumen 13W LED
850 Lumen 9W LED
75-150W Incandescent
18-26W CFL
20W HID

* Sapphire also available in 6000 and 8000 lumens. Consult factory for photometric data.

LIGHTING CONSISTENCY FOR ALL APPLICATIONS.

Nora and NSpec downlights, powered by Cree® modules, represent a family of high efficiency LED downlights that can beautifully light any area.

With our downlights, you achieve a uniform look and uniform consistent lighting. Cree® LED modules provide consistent color and quality of light throughout a space, while Nora trims maintain identical cutoff points and finishes.

Trim Finishes LED Recessed

See individual trim listings for available finishes. All finishes are not available on all trims.

Black Reflector / Wall Wash Self Flange (BSF)
Absorbs light to help hide aperture brightness when on. Gives a "black hole" appearance when off. Excellent for dark ceilings and in areas where minimal aperture brightness is important.

Black Reflector / Wall Wash White Self Flange (BWSF)
Absorbs light to help hide aperture brightness when on. Gives a "black hole" appearance when off. Excellent in areas where minimal aperture brightness is important. White painted flange.

Diffused Clear Reflector / Wall Wash Self Flange (DSF)
Similar to a clear (chrome) finish but slightly diffused for to soften brightness when on or off. Flange is same finish as reflector.

Diffused Clear Reflector / Wall Wash White Self Flange (DWSF)
Similar to a clear (chrome) finish but slightly diffused to soften brightness when on or off. Flange is painted white.

Haze Reflector / Wall Wash Self Flange (HSF)
A soft platinum finish which casts a soft glow with low aperture brightness. Finish is easy to maintain and blends with multiple metal finishes. Haze does not appear as diffused clear when off and blends very well with white ceilings. Flange is finished in haze.

Haze Reflector / Wall Wash White Self Flange (HWSF)
A soft platinum finish which casts a soft glow with low aperture brightness. Finish is easy to maintain and blends with multiple metal finishes. Haze does not appear as diffused clear when off and blends very well with white ceilings. Flange is painted white.

White Reflector / Wall Wash Self Flange (WSF)
White creates the highest aperture brightness, yet blends in well with white ceilings when off.

TRIM FLANGE OPTIONS

Self Flange - SF
5/8" integral flange is a part of the reflector and finished in the same finish as the reflector.

White Self Flange - WSF
5/8" integral flange is a part of the reflector and finished in white.

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Specular Black, White Flange (BW)
A specular black finish that best hides aperture brightness. It is often the top choice by designers when glare and minimum ceiling brightness are a concern. Available in Reflector or Baffle styles.

Bronze, Bronze Flange (BZBZ)
A beautiful dark bronze finish with a hint of copper highlights that blend well with all oil rubbed bronze fixture finishes. The finish provides low aperture brightness. Available in Reflector or Baffle styles.

Copper, Copper Flange (COCO)
A beautiful, full flavor finish similar to an old copper penny. It blends well with period copper fixtures, provides good performance and lower aperture brightness. Available in Reflector or Baffle styles.

Diffused Clear, White Flange (DW)
Similar to a specular clear (chrome) finish but slightly diffused to soften brightness when on or off. Flange is painted white.

Haze, White Flange (HZW)
A soft platinum finish which casts a soft glow with low aperture brightness. Finish is easy to maintain and blends with multiple metal finishes. Haze does not appear as diffused clear or clear when off and blends very well with white ceilings. Flange is painted white.

Natural Metal, Natural Metal Flange (NN)
An industrial, brushed raw metal finish that blends well with all stainless steel and brushed nickel fixtures. The finish provides a soft aperture brightness. Available in Reflector or Baffle styles.

White, White Flange (WW)
White creates the highest aperture brightness, yet blends in well with white ceilings when off. Available in Reflector or Baffle styles.

Matt Powder White (MPW)
A pure white, whiter than Nora's standard white. A matte finish that blends well with contemporary brighter white ceilings.

REFLECTORS AND TRIM GLASS OPTIONS (SPECIFY REFLECTOR AND GLASS SEPERATELY)

NTG-B/167
Tempered Blue Glass 6-5/8"
Open Center

NTG-B/120
Tempered Blue Glass 4-3/4"
Open Center

NTG-B/80
Tempered Blue Glass 3-1/8"
Open Center

NTG-CF
Tempered Clear Glass with
Frosted Center

NTG-FC
Tempered Frosted Glass, Clear
Center
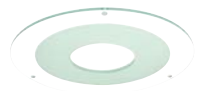
NTG-HC
Tempered Clear Glass with
Frosted Center, 3-1/8" Open
Center

LED Dimming Two Choices

WHITE LIGHT DIMMING AND COMFORT DIM

The NSpec Sapphire Series and Nora Marquis Series offer both white light dimming and comfort dim. Both are compatible with TRIAC, 0-10V, and other widely used lighting control system.

WHITE LIGHT DIMMING (STANDARD)

Consistent color across dimming range keeps colors natural and consistent

Unlike incandescent dimming, most LED dimming does not change in color as power decreases but remains close to the original kelvin temperature of the source. This is called White Light Dimming. White Light dimming is also found with fluorescent dimming, and has become accepted in most commercial, architectural and residential applications primarily because there were not other energy efficient solutions that would warm the light as it was dimmed.

COMFORT DIM (OPTIONAL)

Warm, rich light dimming creates an intimate atmosphere

An innovation in energy efficient dimming, Comfort Dim presented by Nora and Cree™, warms the light as power is reduced. Comfort Dim color tunes the temperature from a bright color to a warm and romantic incandescent feel. The Sapphire and Marquise Series go from 2700K to 1800K while the Iolite Series goes from 3000K to 1900K. The warm dim Comfort Dim is the perfect solution for restaurants, cineplex, home theaters, multi-purpose event venues and other applications where the temperature and comfort of the light sets the mood.

NORA COMFORT DIM

Comfort Dim®
Recreate the Sunset with LED
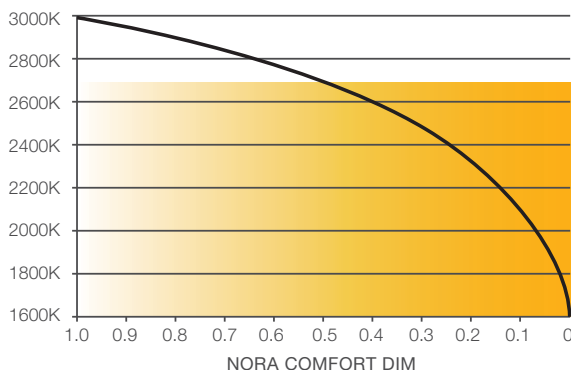
*Sapphire Series
available in Retrofit
see page 52*

LED
Sapphire
Series

ARCHITECTURAL LED DOWNLIGHT

The Sapphire Series of LED architectural downlights features one of the highest efficacy ratings in the industry. NSpec designed reflectors combined with the Cree® intergrated TrueWhite™ LED packages produce high CRI efficient light for commercial applications. The deep reflectors provide optimal visual comfort.

White Light Dimming features lumen packages from 850 to 8000 with smooth consistent dimming white light shift down to 5%.

Comfort Dimming features lumen packages from 850 to 3000 lumen with smooth gradual even line dimming from 2700K down to 1800K. Comfort Dimming is perfect for restaurants, theaters, multi-use rooms and high-end residential applications where warm color tuning is important to the ambiance of the occasion or function.

NSPEC

SAPPHIRE SERIES ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS

4" FRAME-INS 850-2000 LUMEN LED
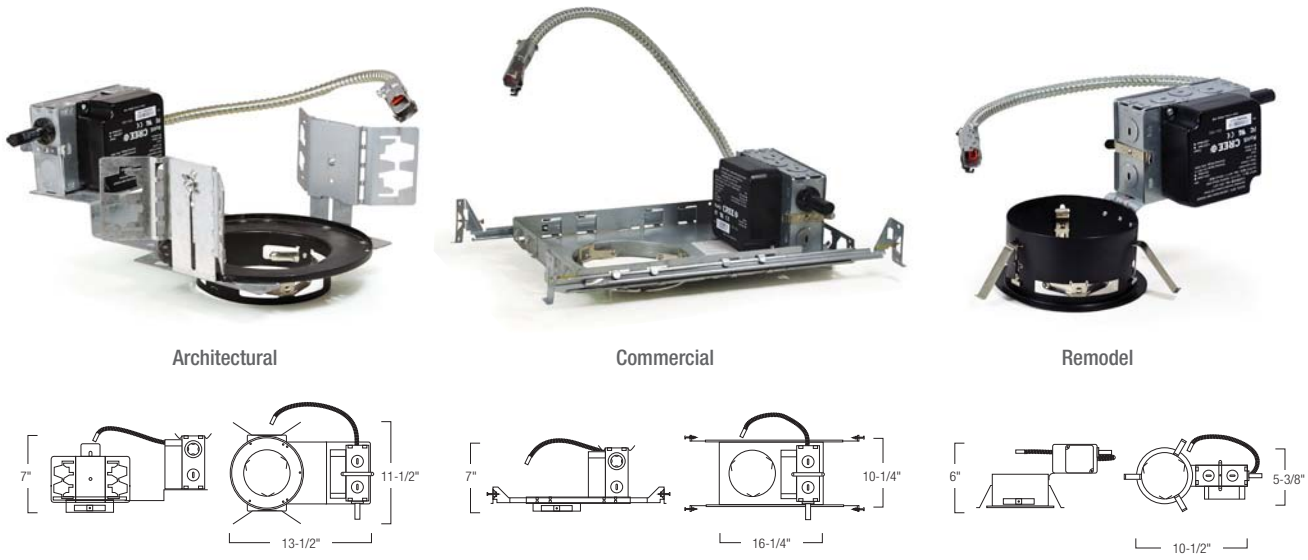
Architectural

Commercial

Remodel

4" SAPPHIRE HIGH LUMEN FRAME-IN

FRAME TYPE	SERIES	LUMEN	DRIVER	VOLTAGE + DIMMING	EMERGENCY
NAH Architectural **NCH** Commercial **NCHR** Remodel	**430** New Const **434** Remodel	**85** 850 **12** 1250 **20** 2000	**(Blank)** Standard **C** Comfort Dim† **LUXX***	**LE1** 120V 850 /1250 lm Triac/ELV Dim ; 2000 lm 0-10V Dim **LE2** 277V 0-10V Dim **LE3** 120V Triac/ELV Dim **LE4** 120V 0-10V Dim	**EM** Emerg Pack w/ Test Switch

*Example: **NCH-43085LE1EM** - 4" Sapphire Series Commercial LED New Construction Frame-in, 850 Lumen, 120V, with Emergency Pack and Remote Test Switch*

†Comfort Dim requires ELV or 0-10V dimming control   **LUXX: Consult factory for Lutron® driver options*

Architectural grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance. Dedicated EM housing back-ups available for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm = 10W,
1250lm = 15W,
2000lm = 24W

Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0˚C~50˚C (32˚F~122˚F)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
Architectural: Universal brackets adjust vertically and accept C-Channel or flat bar hangers (ordered separately), or simple rigid 1/2" steel conduit for tie-down to ceiling grids.
Commercial: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installations.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)
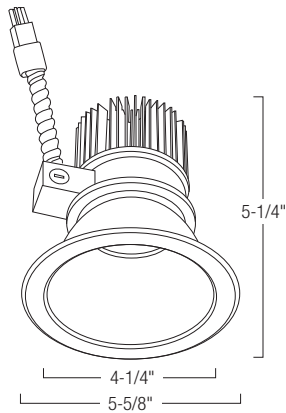
EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light.

LISTING:
cULus Listed for Wet Location

WARRANTY:
10 Year Limited Warranty

NORA NSPEC®

ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS **SAPPHIRE SERIES**

850-2000 LUMEN LED **4" REFLECTORS**

5-1/4"

4-1/4"

5-5/8"

NC-431   **NC-436**   **NC-438**

4" SAPPHIRE HIGH LUMEN **REFLECTORS**

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	REFLECTOR FINISH	FLANGE
NC-431 Open Reflector **NC-436** Wall Wash **NC-438** Decorative Glass*	**L** LED	**85** 850 **12** 1250 **20** 2000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**B** Black **D** Clear Diffused **H** Haze **W** White	**SF** Self Flange **WSF** White Self Flange

438 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*

NTG-4SPH-CF 4" Tempered Clear Glass with Frosted Center
NTG-4SPH-FC 4" Tempered Frosted Glass with Clear Center
NTG-4SPH-HC 4" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass.

*Example: **NC-431L2040DWSF** - 4" Sapphire Series, Open Reflector, LED, 2000 Lumen, 4000K, Clear Diffused, White Self-Flange*

†Comfort Dim requires ELV or 0-10V dimming control
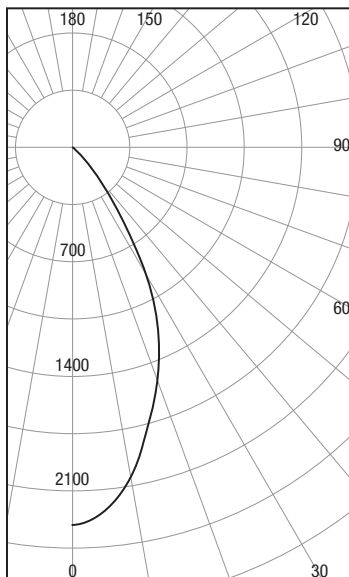
NCH-43020LE1 / NC-431L2030DSF   Test No. 36855

CANDLEPOWER SUMMARY

ANGLE	MEAN CP	LUMENS
0	2311	
5	2243	210
10	2044	
15	1776	493
20	1503	
25	1243	558
30	904	
35	528	334
40	253	
45	109	91
50	35	
55	7	10
60	1	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY
REFLECTANCE = .20

CC		80		
WALL	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.15	1.12	1.10	1.08
2	1.10	1.06	1.03	1.00
3	1.06	1.01	0.97	0.94
4	1.02	0.96	0.92	0.88
5	0.98	0.91	0.86	0.83
6	0.94	0.87	0.82	0.79
7	0.90	0.83	0.78	0.75
8	0.87	0.79	0.74	0.71
9	0.83	0.75	0.70	0.66
10	0.80	0.71	0.66	0.63

APPLICATION REFERENCE Sapphire Cat.# NC-431L2040DWF, 2000 LMS, 4000K, Diffused Reflector Finish

O.C Spacing	Lumens	Wattage	LPW	w/sq.ft.	Average FC	Mtg. Height	No. of Fixtures
6 x 6	1707	24	0.71	0.6	38	15	15
	1707	24	0.71	0.6	29	25	15
	1707	24	0.71	0.6	21	35	15
6 x 8	1707	24	0.71	0.48	30	15	12
	1707	24	0.71	0.48	23	25	12
	1707	24	0.71	0.48	17	35	12
8 x 8	1707	24	0.71	0.48	28	15	12
	1707	24	0.71	0.48	21	25	12
	1707	24	0.71	0.48	16	35	12
8 x 10	1707	24	0.71	0.36	21	15	9
	1707	24	0.71	0.36	16	25	9
	1707	24	0.71	0.36	12	35	9

NSPEC

SAPPHIRE SERIES ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS

6" FRAME-INS 850-8000 LUMEN LED

Architectural   Commercial   Remodel

6-1/4"   11-3/8"   6-1/4"   11-3/8"   6-1/4"   6-1/4"

13"   13"   8-3/4"

6" SAPPHIRE HIGH LUMEN FRAME-IN

FRAME TYPE	SERIES	LUMEN	DRIVER	VOLTAGE + DIMMING	EMERGENCY
NAH Architectural **NCH** Commercial **NCHR** Remodel	**630** New Const **634** Remodel	**85** 850 **12** 1250 **20** 2000 **30** 3000 NEW! **40** 4000 NEW! **60** 6000 **80** 8000	**(Blank)** Standard **C** Comfort Dim† **LUXX***	**LE1** 120V 850 /1250 lm Triac ELV Dim or 120V 2000 lm 0-10V Dim **LE2** 277V 0-10V Dim **LE3** 120V Triac ELV Dim **LE4** 120V 0-10V Dim	**EM** Emerg Pack w/ Test Switch

*Example: **NAH-63020LE1EM** - 6" Sapphire Series Architectural LED New Construction Frame-in, 2000 Lumen, 120V, with Emergency Pack and Remote Test Switch*

*†Comfort Dim requires ELV or 0-10V dimming control   *LUXX: Consult factory for Lutron® driver options*

6" Sapphire LED Retrofit available. See page 52

Architectural grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance. The Sapphire series is specifiable in 120V or 277V for commercial jobs of all sizes and is cULus wet listed. Dedicated EM housing back-ups available for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm = 10W,   1250lm = 15W,
2000lm = 24W,   3000lm = 36W,
4000lm = 41W   6000lm = 82W
8000lm = 112W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
Architectural: Universal brackets adjust vertically and accept C-Channel or flat bar hangers (ordered separately), or simple rigid 1/2" steel conduit for tie-down to ceiling grids.
Commercial: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installations.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K) 850-3000 Lumen

EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light.

LISTING:
cULus Listed for Wet Location

WARRANTY:
10 Year Limited Warranty

CREE TRUE WHITE TECHNOLOGY | COMFORT DIM | 90+ CRI | RoHS COMPLIANT | R9 80+ | NORA 10 YEAR LIMITED WARRANTY

cULus LISTED | ENERGY STAR | TITLE 24 2008 | DIM | WET | ASSEMBLED IN USA | COMMITTED TO GREEN | lighting facts

NORA | NSPEC®

ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS SAPPHIRE SERIES
850-8000 LUMEN LED 6" REFLECTORS

6-1/4"

6"

7-1/2"

NC-631 **NC-636** **NC-638**

6" SAPPHIRE HIGH LUMEN REFLECTORS

| REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	REFLECTOR FINISH	FLANGE
NC-631 Open Reflector **NC-636** Wall Wash **NC-638** Decorative Glass*	**L** LED	**85** 850 **12** 1250 **20** 2000 **30** 3000 **40** 4000 NEW! **60** 6000 NEW! **80** 8000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**B** Black **D** Clear Diffused **H** Haze **W** White	**SF** Self Flange **WSF** White Self Flange

638 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*

NTG-6B/120 6" Tempered Blue Glass with 4-3/4" Open Center
NTG-6B/80 6" Tempered Blue Glass wit h 3-1/8" Open Center
NTG-6CF 6" Tempered Clear Glass with Frosted Center
NTG-6FC 6" Tempered Frosted Glass with Clear Center
NTG-6HC 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass.

†Comfort dim available in 850, 1250, 2000, & 3000 Lumens. Note: 2000 and 3000 Lm require 4000 Lm Drivers. Comfort Dim requires ELV or 0-10V dimming control

*Example: **NC-631L2040DWSF** - 6" Sapphire Series Open Reflector LED, 2000 Lumen, 4000K, Clear Diffused Reflector, White Self-Flang*
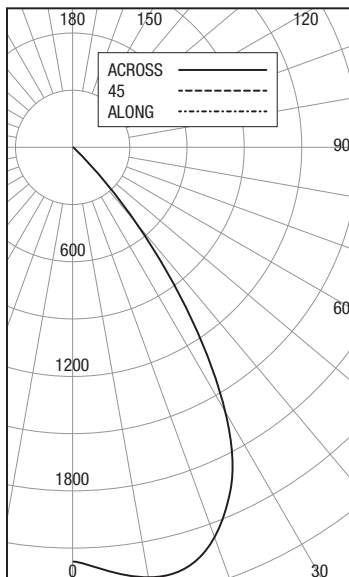
NCH-63130LE1 / NC-631L3030DWF Test No. 284636

ACROSS 45 ALONG

180 150 120 90 60 30 0

600 1200 1800

CANDLEPOWER SUMMARY

ANGLE	MEAN CP	LUMENS
0	2173	
5	2225	218
10	2298	
15	2284	639
20	2173	
25	1965	889
30	1639	
35	1084	663
40	523	
45	199	173
50	50	
55	16	177
60	7	
65	4	4
70	1	
75	0	0
80	0	
85	0	0
90	0	

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY
REFLECTANCE = .20

CC		80		
WALL	**70**	**50**	**30**	**10**
RCR				
0	1.19	1.19	1.19	1.19
1	1.14	1.12	1.09	1.07
2	1.09	1.05	1.02	0.99
3	1.05	0.99	0.95	0.92
4	1.00	0.94	0.89	0.86
5	0.96	0.89	0.83	0.80
6	0.92	0.84	0.79	0.75
7	0.87	0.79	0.74	0.70
8	0.83	0.75	0.69	0.66
9	0.79	0.70	0.65	0.61
10	0.75	0.66	0.61	0.57

APPLICATION REFERENCE Sapphire Cat.# NC-631L3030DWF, 3000 LMS, 3000K, Diffused Reflector Finish

O.C Spacing	Lumens	Wattage	LPW	w/sq.ft.	Average FC	Mtg. Height	No. of Fixtures
6 x 6	2615	36	73	0.9	57	15	15
	2615	36	73	0.9	44	25	15
	2615	36	73	0.9	29	35	15
6 x 8	2615	36	73	0.72	44	15	12
	2615	36	73	0.72	32	25	12
	2615	36	73	0.72	23	35	12
8 x 8	2615	36	73	0.72	41	15	12
	2615	36	73	0.72	31	25	12
	2615	36	73	0.72	22	35	12
8 x 10	2615	36	73	0.54	32	15	9
	2615	36	73	0.54	24	25	9
	2615	36	73	0.54	17	35	9

SAPPHIRE RETROFIT SERIES COMMERCIAL

6" RETROFIT 850-4000 LUMEN LED

NCR-61
6" Open Reflector
B, D, H, W

NCR-66
6" Wall Wash
B, D, H, W

NCR-68
6" Decorative Glas
B, D, H, W

6" SAPPHIRE RETROFIT HIGH LUMEN REFLECTORS

REFLECTOR TYPE	LUMEN	COLOR TEMP	VOLTAGE/DIMMING	REFLECTOR FINISH	FLANGE
NCR-61 Open Reflector **NCR-66** Wall Wash **NCR-68** Decorative Glass*	**85** 850 **12** 1250 **20** 2000 **30** 3000 **40** 4000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD†** Comfort Dim	**LE1** 120V **LE2** 277V **LE3** 120V **LE4** 120V	**B** Black **D** Clear Diffused **H** Haze **W** White	**SF** Self Flange **WSF** White Self Flange

68 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*
NTG-6B/167 6" Tempered Blue Glass with 6-5/8" Open Center
NTG-6B/80 6" Tempered Blue Glass wit h 3-1/8" Open Center
NTG-6CF 6" Tempered Clear Glass with Frosted Center
NTG-6FC 6" Tempered Frosted Glass with Clear Center
NTG-6HC 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass.

LE1 - 120V - 850lm & 1250lm Triac Dimming
        2000 & up 0-10V Dimming
LE2 - 277V 0-10V Dimming
LE3 - 120V Triac Dimming
LE4 - 120V 0-10V Dimming

†Comfort dim available in 850, 1250, 2000, & 3000 Lm. Note: 2000 and 3000 Lm require 4000 Lm Drivers.

*Example: **NCR-6620CDWSF** - 6" Sapphire Retrofit Wall Wash LED, 2000 Lumen, Comfort Dim, White Reflector, White Self-Flange*

Architectural grade LED High Lumen Retrofit Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance. The Sapphire series is specifiable in 120V or 277V for commercial jobs of all sizes and is cULus wet listed. An excellent solution for retrofitting older CFL, CMH or Incandescent souces to energy efficient LED.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm = 8.76W   3000lm = 30.93W
1250lm = 12.88W   4000lm = 41.10W
2000lm = 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K

and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Aluminum spun reflector attached to LED module and UTM heat sink. Reflector has disconnect. Aluminum whip connected to UL recognized J-box support LED Drive. Aluminum whip with quick connect for power connection.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION: The Sapphire retrofit is intended to install into existing 6" Commercial and Architectural frames by Nora. For compatible frames by others refer to spec sheet.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K) 850-3000 Lumen

LISTING:
cULus Listed for Wet Location

WARRANTY:
10 Year Limited Warranty

NORA | NSPEC®

SAPPHIRE SERIES ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS

8" FRAME-INS 850-8000 LUMEN LED

Architectural

Commercial
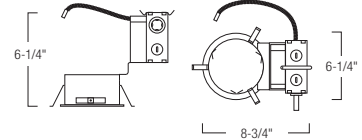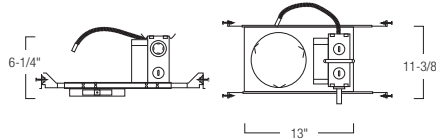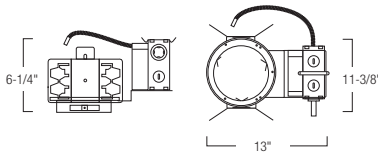
Remodel

8" SAPPHIRE HIGH LUMEN FRAME-IN

FRAME TYPE	SERIES	LUMEN	DRIVER	VOLTAGE	EMERGENCY
NAH Architectural **NCH** Commercial **NCHR** Remodel	**830** New Const **834** Remodel	**85** 850 **12** 1250 **20** 2000 **30** 3000 **40** 4000 **60** 6000 **80** 8000	**(Blank)** Standard **C** Comfort Dim† **LUXX***	**LE1** 120V 850 /1250 lm Triac Dim 　　 or 120V 2000 lm 0-10V Dim **LE2** 277V 0-10V Dim **LE3** 120V Triac Dim **LE4** 120V 0-10V Dim	**EM** Emerg Pack w/ Test Switch

*Example: **NCHR-83420CLE2EM** - 8" Sapphire Series Architectural LED Remodel Frame-in, Comfort Dim, 2000 Lumen, 277V, with Emergency Pack and Remote Test Switch*

†Comfort Dim requires ELV or 0-10V dimming control　　　*LUXX: Consult factory for Lutron® Driver Options

8" Sapphire LED Retrofit available. See page 56

Architectural grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance. The Sapphire series is specifiable in 120V or 277V for commercial jobs of all sizes and is and cULus listed. Dedicated EM housing back-ups available for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm / 8.76W,　　　　1250lm / 12.88W,
2000lm / 20.62W,　　　3000lm / 30.93W,
4000lm = 41.10W　　　6000lm = 82W
8000lm = 112W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
Architectural: Universal brackets adjust vertically and accept C-Channel or flat bar hangers (ordered separately), or simple rigid 1/2" steel conduit for tie-down to ceiling grids.
Commercial: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installations.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified - see above.

**DIMMING OPTIONS:** White light dimming (standard); Comfort Dim (2700K-1800K) 850-3000 lumen

EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light.

LISTING:
cULus Listed for Wet Location

WARRANTY:
10 Year Limited Warranty

NORA NSPEC®

ARCHITECTURAL AND COMMERCIAL DOWNLIGHTS SAPPHIRE SERIES
850-8000 LUMEN LED 8" REFLECTORS
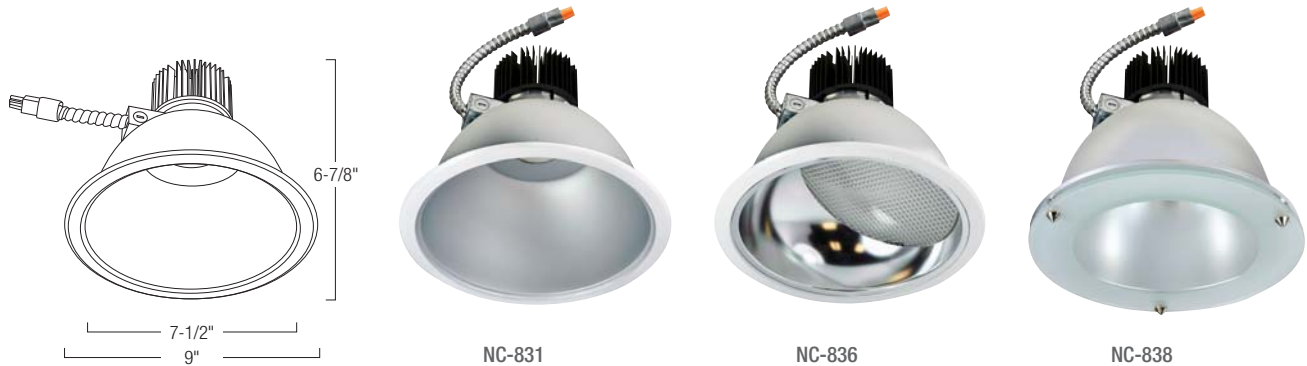
6-7/8"

7-1/2"

9"

NC-831

NC-836

NC-838

8" SAPPHIRE HIGH LUMEN REFLECTORS

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	REFLECTOR FINISH	FLANGE
NC-831 Open Reflector NC-836 Wall Wash NC-838 Decorative Glass*	L LED	85 850 12 1250 20 2000 30 3000 40 4000 **NEW!** 60 6000 **NEW!** 80 8000	27 2700K 30 3000K 35 3500K 40 4000K CD† Comfort Dim	B Black D Clear Diffused H Haze W White	SF Self Flange WSF White Self Flange

638 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*

NTG-8B/167	8" Tempered Blue Glass with 6-5/8" Open Center
NTG-8B/80	8" Tempered Blue Glass wit h 3-1/8" Open Center
NTG-8CF	8" Tempered Clear Glass with Frosted Center
NTG-8FC	8" Tempered Frosted Glass with Clear Center
NTG-8HC	8" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass.

†Comfort dim available in 850, 1250, 2000, & 3000 Lumens. Note: 2000 and 3000 Lm require 4000 Lm Drivers. Comfort Dim requires ELV or 0-10V dimming control

Example: NC-836L20CDWSF - 8" Sapphire Series Wall Wash LED, 2000 Lumen, Comfort Dim, White Reflector, White Self-Flange

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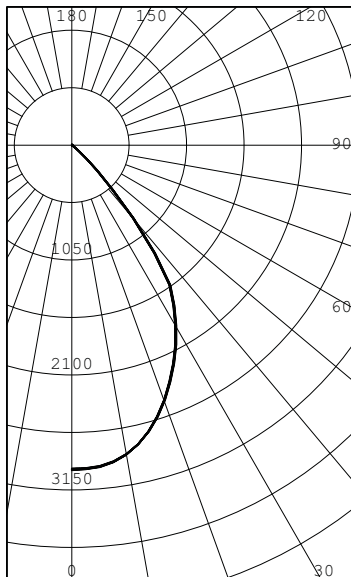
NCH-83040LE1 / NC-831L4027DWF   Test No. 295577

CANDLEPOWER SUMMARY

ANGLE	MEAN CP	LUMENS
0	2963	
5	2949	283
10	2872	
15	2708	756
20	2477	
25	2203	1007
30	1901	
35	1562	916
40	875	
45	329	290
50	90	
55	32	290
60	17	
65	9	33
70	4	
75	0	10
80	0	
85	0	0
90	0	

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY
REFLECTANCE = .20

CC	80			
WALL	70	50	30	10
RCR				
0	1.19	1.19	1.19	1.19
1	1.14	1.11	1.09	1.07
2	1.09	1.05	1.01	0.98
3	1.04	0.98	0.94	0.90
4	1.00	0.93	0.88	0.84
5	0.95	0.87	0.82	0.78
6	0.90	0.82	0.77	0.73
7	0.86	0.77	0.72	0.68
8	0.82	0.72	0.67	0.63
9	0.77	0.68	0.62	0.58
10	0.73	0.64	0.58	0.54

APPLICATION REFERENCE Sapphire Cat.# NC-831L4027DWF, 4000 LMS, 2700K, Diffused Reflector Finish

O.C Spacing	Lumens	Wattage	LPW	w/sq.ft.	Average FC	Mtg. Height	No. of Fixtures
6 x 6	3310	43	77	1.07	71	15	15
	3310	43	77	1.07	51	25	15
	3310	43	77	1.07	36	35	15
6 x 8	3310	43	77	0.86	56	15	12
	3310	43	77	0.86	40	25	12
	3310	43	77	0.86	28	35	12
8 x 8	3310	43	77	0.86	52	15	12
	3310	43	77	0.86	38	25	12
	3310	43	77	0.86	27	35	12
8 x 10	3310	43	77	0.65	40	15	9
	3310	43	77	0.65	29	25	9
	3310	43	77	0.65	21	35	9

SAPPHIRE RETROFIT SERIES COMMERCIAL

8" RETROFIT 850-4000 LUMEN LED

NCR-81
8" Open Reflector
B, D, H, W

NCR-86
8" Wall Wash
B, D, H, W

NCR-88
8" Decorative Glas
B, D, H, W

8" SAPPHIRE RETROFIT HIGH LUMEN **REFLECTORS**

REFLECTOR TYPE	LUMEN	COLOR TEMP	VOLTAGE/DIMMING	REFLECTOR FINISH	FLANGE
NCR-81 Open Reflector **NCR-86** Wall Wash **NCR-88** Decorative Glass*	**85** 850 **12** 1250 **20** 2000 **30** 3000 **40** 4000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD†** Comfort Dim	**LE1** 120V **LE2** 277V **LE3** 120V **LE4** 120V	**B** Black **D** Clear Diffused **H** Haze **W** White	**SF** Self Flange **WSF** White Self Flange

88 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*	LE1 - 120V - 850lm & 1250lm Triac Dimming

88 DECORATIVE GLASS OPTIONS *(Glass Ordered Separately)*
NTG-8B/167 8" Tempered Blue Glass with 6-5/8" Open Center
NTG-8B/80 8" Tempered Blue Glass wit h 3-1/8" Open Center
NTG-8CF 8" Tempered Clear Glass with Frosted Center
NTG-8FC 8" Tempered Frosted Glass with Clear Center
NTG-8HC 8" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

LE1 - 120V - 850lm & 1250lm Triac Dimming
       2000 & up 0-10V Dimming
LE2 - 277V 0-10V Dimming
LE3 - 120V Triac Dimming
LE4 - 120V 0-10V Dimming

†Comfort Dim requires ELV or 0-10V dimming.

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass.

*Example: **NCR-8620CDWSF** - 8" Sapphire Retrofit Wall Wash LED, 2000 Lumen, Comfort Dim, White Reflector, White Self-Flange*

Architectural grade LED High Lumen Retrofit Downlights featuring deep cone reflectors. Dimmable with Cree® LEDs and Cree® LED drivers for reliable performance. The Sapphire series is specifiable in 120V or 277V for commercial jobs of all sizes and is cULus wet listed. An excellent solution for retrofiting older CFL, CMH or Incandescent souces to energy efficient LED.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm = 8.76W   3000lm = 30.93W
1250lm = 12.88W   4000lm = 41.10W
2000lm = 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K

and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Aluminum spun reflector attached to LED module and UTM heat sink. Reflector has disconnect. Aluminum whip connected to UL recognized J-box support LED Drive. Aluminum whip with quick connect for power connection.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION: The Sapphire retrofit is intended to install into existing 8" Commercial and Architectural frames by Nora. For compatible frames by others refer to spec sheet.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K) 850-3000 Lumen

LISTING:
cULus Listed for Wet Location

WARRANTY:
10 Year Limited Warranty

NORA | NSPEC®

LED Marquise Series

IC-RATED, HIGH PERFORMANCE LED DOWNLIGHT

Marquise Series also available in Retrofit see page 71

Nora's **Marquise Series of High Performance LED downlights** for light commercial and high-end residential applications. Using the same high-efficiency Cree® TrueWhite™ LED Integrated package as found in Nora's NSpec architectural Sapphire Series, the Marquise is available in 4", 5", 6" and 6" adjustable apertures for use in IC and non-IC applications.

White Light Dimming (Standard) features lumen packages from 850 to 2000 lumens with smooth and consistent dimming white light shift down to 5%.

Comfort Dimming (Optional) features lumen packages from 850 to 2000 lumens with smooth, gradual even line dimming from 2700K down to 1800K. Comfort Dimming is perfect for restaurants, multi-use rooms and high-end residential applications where warm color tuning is important to the ambiance of the occasion or function.

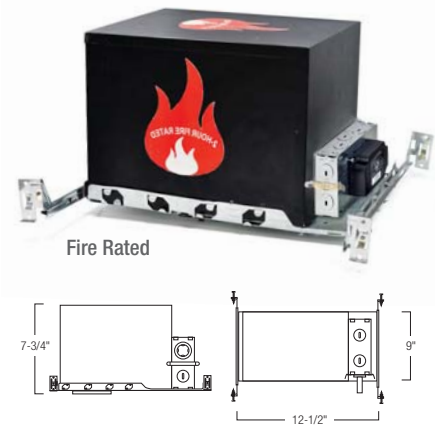# MARQUISE SERIES IC / NON-IC · LIGHT COMMERCIAL & RESIDENTIAL
4" HOUSINGS 850-1250 LUMEN LED

New Construction

IC Double Wall
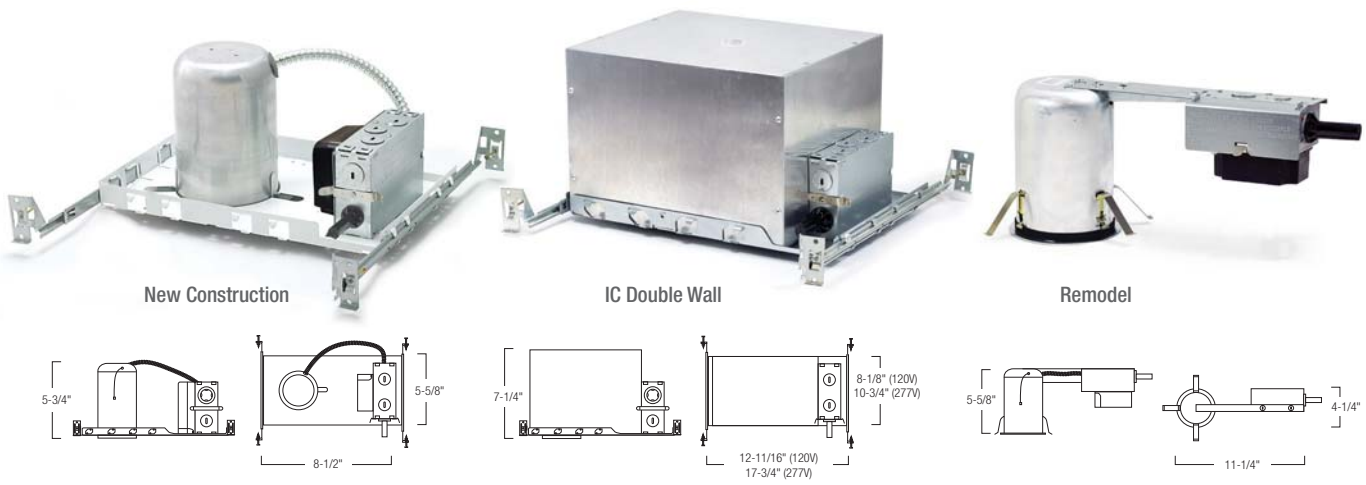
Remodel

4" MARQUISE SERIES HOUSING

HOUSING TYPE		LUMENS	DRIVER	DIMMING	EMERG
NHMIC-4	4" IC New Construction Housing	**85** 850	**(Blank)** Standard	**LE1** 120V 850lm /1250lm Triac	**EM** Emerg Pack with Test Switch
NHRMIC-4	4" IC Remodel Housing				
NFBIC-4L85AT	4" IC Dedicated Fire Box - 850 Lumen		**C** Comfort Dim†	**LE2** 277V 0-10V	
NHM-4	4" New Construction Housing	**12** 1250		**LE3** 120V Triac	
NHRM-4	4" Remodel Housing			**LE4** 120V 0-10V	
NHMICD-4	4" IC Double Wall New Const.				
NFBIC-4L12AT	4" IC Dedicated Fire Box - 1250 Lumen				

*Example: **NHM-412LE1** - 4" Marquise Series LED New Construction Housing, 1250 Lumen, 120V*
†*Comfort Dim requires ELV dimming on 850lm & 1250lm*

Fire Rated

Commercial grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable Cree® LEDs and Cree® LED drivers for reliable performance. The Marquise Series is specifiable in 120V or 277V for light commercial, high-end residential applications and offers dedicated EM housing back-ups for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm / 8.76W,
1250lm / 12.88W,
2000lm / 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES:
Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.
IC housings are rated for direct contact and do not have any minimum clearance requirements

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified (see above)

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)
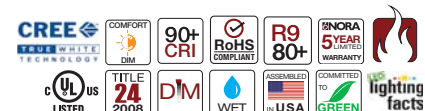
EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light. Double wall housings require access from above.

LISTING:
cULus Listed for Wet Location

WARRANTY:
5 Year Limited Warranty

NORA | N*SPEC*®

MARQUISE SERIES

850-1250 LUMEN LED **4" REFLECTORS**

NRM-411
4" Open Reflector
BW, BZ, CO, CW, DW, HZW, NN, WW

NRM-412
4" Baffle
BW, BZ, CO, NN, WW

NRM-413
4" Square Round Reflector
BZ, CW, HZW, NN, WW

NRM-418 / NTG-4B/80
4" Decorative Glass
BW, BZ, CO, CW, DW, HZW, NN, WW

4-9/16"
3-5/8"
5"

4" MARQUISE SERIES **REFLECTORS**

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	FINISH	
NRM-411 Open Reflector	**L** LED	**85** 850	**27** 2700K	**BW**	Specular Black with White Flange
NRM-412 Baffle		**12** 1250	**30** 3000K	**BZ**	Bronze with Bronze Flange
NRM-413 Square Round Reflector			**35** 3500K	**CO**	Copper with Copper Flange
NRM-418 Decorative Glass*			**40** 4000K	**CW**	Specular Clear with White Flange
			CD Comfort Dim†	**DW**	Diffused Clear with White Flange
				HZW	Haze with White Flange
				NN	Natural Metal and Flange
				WW	White with White Flange

*Example: **NRM-411L1230BW** - 4" Marquise Series, Open Reflector, LED, 1250 Lumen, 3000K, Black Specular Reflector, White Self-Flange*

†Comfort Dim requires ELV dimming on 850lm and 1250lm

NHM-412LE1 / NRM-411L8530DW   Test No. 668100

INTENSITY (CANDLEPOWER) SUMMARY
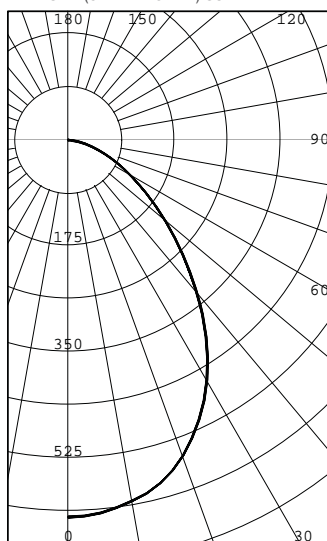
ANGLE	MEAN CP
0	616
5	612
10	599
15	580
20	548
25	505
30	452
35	392
40	327
45	264
50	208
55	160
60	120
65	87
70	60
75	38
80	20
85	6
90	0

ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	367	49.95
0-40	538	73.27
0-60	713	97.10
0-90	735	100.00
40-90	196	26.73
60-90	21	2.90
90-180	0	0.00
0-180	735	100.00

LUMINACE SUMMARY CD. / SQ.M.

ANGLE	MEAN CD/SQ M
45	35490
55	16885
65	6890
75	835
85	0

4" DECORATIVE **GLASS**

418 DECORATIVE GLASS OPTIONS
Glass sold separately

NTG-4B/80 4" Tempered Blue Glass with 3-1/8" Open Center

NTG-4CF 4" Tempered Clear Glass with Frosted Center

NTG-4FC 4" Tempered Frosted Glass with Clear Center

NTG-4HC 4" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass

MARQUISE SERIES IC / NON-IC · LIGHT COMMERCIAL & RESIDENTIAL
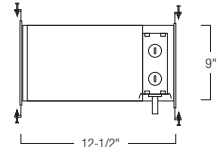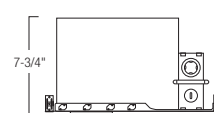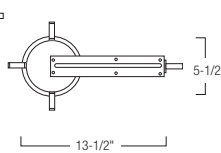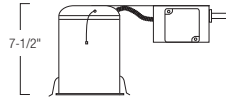## 5" HOUSINGS 850-2000 LUMEN LED

New Construction

Remodel

Fire Rated

7-1/2"   7-1/4"   10-1/2"

7-1/2"   5-1/2"   13-1/2"

7-3/4"   9"   12-1/2"
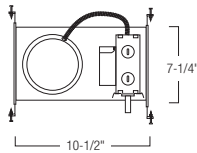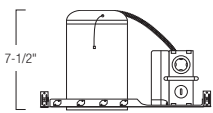
5" MARQUISE SERIES HOUSING

HOUSING TYPE		LUMENS	DRIVER	DIMMING	EMERGENCY
NHMIC-5	5" IC New Construction Housing	**85** 850	**(Blank)** Standard	**LE1** 120V 850lm /1250lm Triac	**EM** Emerg Pack with Test Switch
NHRMIC-5	5" IC Remodel Housing				
NFBIC-5L85AT	5" IC Dedicated Fire Box - 850 Lumen		**C** Comfort Dim†	**LE2** 277V 0-10V	
NHM-5	5" New Construction Housing	**12** 1250		**LE3** 120V Triac	
NHRM-5	5" Remodel Housing	**20** 2000		**LE4** 120V 0-10V	

*Example: **NHM-520LE1** - 5" Marquise Series LED New Construction Housing, 2000 Lumen, 120V*

†*Comfort Dim requires ELV or 0-10V dimming control*

5" Marquise LED Retrofit available. See page 71.

Commercial grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable Cree® LEDs and Cree® LED drivers for reliable performance. he Marquise Series is specifiable in 120V or 277V for light commercial, high-end residential applications and offers dedicated EM housing back-ups for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm / 8.76W,
1250lm / 12.88W,
2000lm / 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32°F~122°F)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)
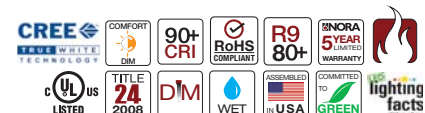
EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light. Double wall housings require access from above.
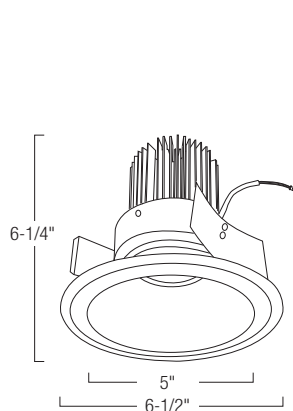
LISTING:
cULus Listed for Wet Location

Warranty:
5 Year Limited Warranty

NORA | **NSPEC**®

MARQUISE SERIES
850-2000 LUMEN LED 5" REFLECTORS

6-1/4"

5"

6-1/2"

NRM-511
5" Open Reflector
BW, BZ, CO, CW, DW, HZW, NN, WW

NRM-512
5" Baffle
BW, BZ, CO, NN, WW

NRM-518 / NTG-5CF
5" Decorative Glass
BW, BZ, CO, CW, DW, HZW, NN, WW

5" MARQUISE SERIES **REFLECTORS**

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	FINISH	
NRM-511 Open Reflector	**L** LED	**85** 850	**27** 2700K	**BW**	Specular Black with White Flange
NRM-512 Baffle		**12** 1250	**30** 3000K	**BZ**	Bronze with Bronze Flange
NRM-518 Decorative Glass*		**20** 2000	**35** 3500K	**CO**	Copper with Copper Flange
			40 4000K	**DW**	Diffused Clear with White Flange
			CD Comfort Dim†	**HZW**	Haze with White Flange
				NN	Natural Metal and Flange
				WW	White with White Flange

*Example: **NRM-511L1230BW** - 5" Marquise Series, Open Reflector, LED, 1250 Lumen, 3000K, Black Specular Reflector, White Self-Flange*

†Comfort Dim requires ELV dimming on 850lm & 1250lm

NHM-512LE1 / NRM-511L1230DW   Test No. 663849

INTENSITY (CANDLEPOWER) SUMMARY
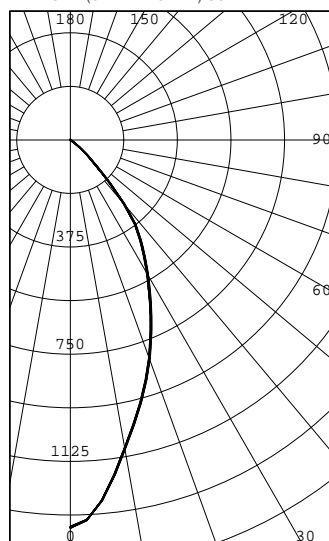
ANGLE	MEAN CP
0	1356
5	1267
10	1097
15	951
20	809
25	667
30	539
35	428
40	292
45	134
50	54
55	18
60	1
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	686	63.49
0-40	949	87.81
0-60	1081	99.99
0-90	1081	100.00
40-90	132	12.19
60-90	0	0.01
90-180	0	0.00
0-180	1080	100.00

LUMINACE SUMMARY CD. / SQ.M.

ANGLE	MEAN CD/SQ M
45	11335
55	1924
65	2
75	0
85	0

5" DECORATIVE **GLASS**

518 DECORATIVE GLASS OPTIONS
Glass sold separately

NTG-5B/80 5" Tempered Blue Glass with
3-1/8" Open Center

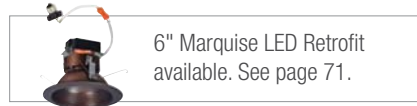**NTG-5CF** 5" Tempered Clear Glass with
Frosted Center

NTG-5FC 5" Tempered Frosted Glass
with Clear Center

NTG-5HC 5" Tempered Clear Glass with
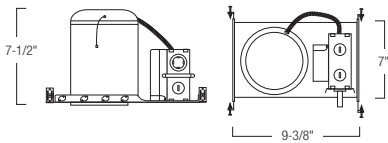Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass

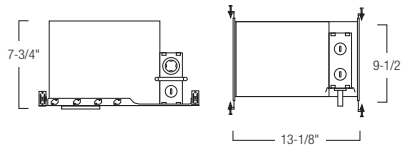# MARQUISE SERIES IC / NON-IC · LIGHT COMMERCIAL & RESIDENTIAL
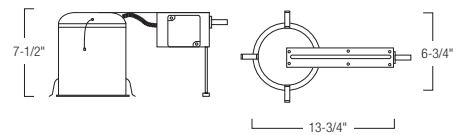
6" HOUSINGS 850-2000 LUMEN LED

6" Marquise LED Retrofit available. See page 71.

New Construction

IC Double Wall

Remodel

7-1/2"   7"   9-3/8"

7-3/4"   9-1/2"   13-1/8"

7-1/2"   6-3/4"   13-3/4"

6" MARQUISE SERIES HOUSING

HOUSING TYPE		LUMENS	DRIVER	DIMMING	EMERGENCY
NHMIC-6	6" IC New Construction	**85** 850	**(Blank)** Standard	**LE1** 120V 850lm /1250lm Triac	**EM** Emerg Pack w/ Test Switch
NHRMIC-6	6" IC Remodel Housing				
⚠ **NFBIC-6L85AT**	6" IC Dedicated Fire Box - 850 Lumen		**C** Comfort Dim†	**LE2** 277V 0-10V	
NHM-6	6" New Construction	**12** 1250		**LE3** 120V Triac	
NHRM-6	6" Remodel Housing	**20** 2000		**LE4** 120V 0-10V	
NHMICD-6	6" IC Double Wall				
⚠ **NFBIC-6L12AT**	6" IC Dedicated Fire Box - 1250 Lumen				

*Example: **NHM-620LE1** - 6" Marquise Series LED New Construction Housing, 2000 Lumen, 120V*
†Comfort Dim requires ELV or 0-10V dimming control

Fire Rated

7-3/4"   9"   12-1/2"

Commercial grade LED High Lumen Downlights featuring deep cone reflectors. Dimmable Cree® LEDs and Cree® LED drivers for reliable performance. The Marquise Series is specifiable in 120V or 277V for light commercial, high-end residential applications and offers dedicated EM housing back-ups for new construction and remodel applications.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm / 8.76W,
1250lm / 12.88W,
2000lm / 20.62W
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION: Architectural quality 0.050 galvanized steel ring riveted to elevated 0.064 steel junction box and driver tray.

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: As specified - see above

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)

EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light. Double wall housings require access from above.
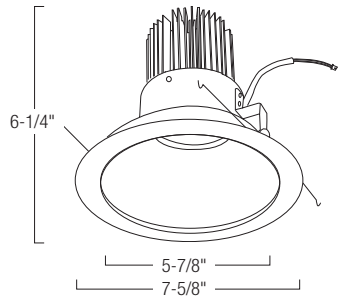
Listing:
cULus Listed for Wet Location

Warranty:
5 Year Limited Warranty

NORA NSPEC®

6-1/4"

5-7/8"
7-5/8"

NRM-611
6" Open Reflector
BW, BZ, CO, CW, DW, HZW, NN, WW

NRM-612
6" Baffle
BW, BZ, CO, NN, WW

NRM-618 / NTG-6CF
6" Decorative Glass
BW, BZ, CO, CW, DW, HZW, NN, WW

6" MARQUISE SERIES **REFLECTORS**

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	FINISH	
NRM-611 Open Reflector **NRM-612** Baffle **NRM-618** Decorative Glass*	**L** LED	**85** 850 **12** 1250 **20** 2000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**BW** **BZ** **CO** **DW** **HZW** **NN** **WW**	Specular Black with White Flange Bronze with Bronze Flange Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal and Flange White with White Flange

*Example: **NRM-611L1230BW** - 6" Marquise Series, Open Reflector, LED, 1250 Lumen, 3000K, Black Specular Reflector, White Self-Flange*

†*Comfort Dim requires ELV or 0-10V dimming control*

NHM-620LE1 / NRM-611L2030DW   Test No. 668101

INTENSITY (CANDLEPOWER) SUMMARY
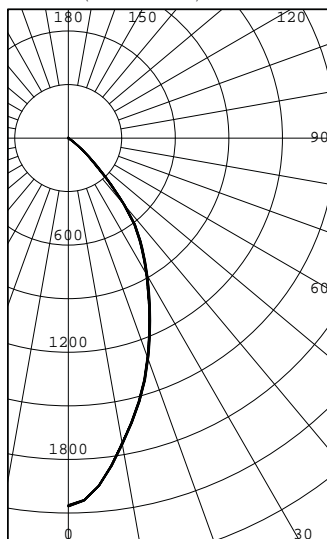
ANGLE	MEAN CP
0	2059
5	1957
10	1740
15	1529
20	1305
25	1078
30	877
35	700
40	485
45	244
50	105
55	32
60	2
65	1
70	0
75	0
80	0
85	0
90	0

ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1100	62.30
0-40	1530	86.66
0-60	1764	99.93
0-90	1766	100.00
40-90	236	13.34
60-90	1	0.07
90-180	0	0.00
0-180	1766	100.00

LUMINACE SUMMARY CD. / SQ.M.

ANGLE	MEAN CD/SQ M
45	20639
55	3325
65	142
75	7
85	0

6" DECORATIVE **GLASS**

618 DECORATIVE GLASS OPTIONS
Glass sold separately

NTG-6B/120 6" Tempered Blue Glass with 4-3/4" Open Center

NTG-6B/80 6" Tempered Blue Glass with 3-1/8" Open Center

NTG-6CF 6" Tempered Clear Glass with Frosted Center

NTG-6FC 6" Tempered Frosted Glass with Clear Center

NTG-6HC 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

* Reflector supplied with three studs mounted in flange for attaching decorative glass (specified separately). The decorative glass will reduce the amount of usable light by 10 to 30% depending on the selected glass

MARQUISE SERIES IC / NON-IC · LIGHT COMMERCIAL & RESIDENTIAL
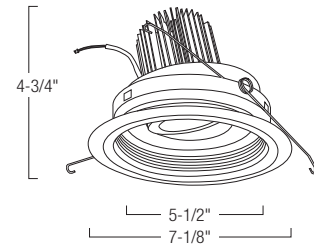
6" ADJUSTABLES 850-2000 LUMEN LED

3-3/4"

5-1/4"

8-1/8"

4-3/4"

5-1/2"

7-1/8"

NRM-614
6" Surface Adjustable
B, BZ, C, CO, NN, WW

NRM-617
6" Regressed Baffle
BW, BZ, CO, NN, WW

NRM-619
6" Regressed Reflector
BW, BZ, CO, CW, HZW, NN, WW
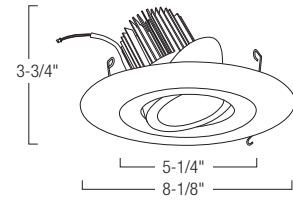
6" MARQUISE SERIES ADJUSTABLES

REFLECTOR TYPE	SOURCE	LUMEN	COLOR TEMP	FINISH	
NRM-614 Surface Adjustable **NRM-617** Regressed Baffle **NRM-619** Regressed Reflector	**L** LED	**85** 850 **12** 1250 **20** 2000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**B** **BW** **BZ** **C** **CO** **CW** **HZW** **NN** **WW**	Black Specular Black with White Flange Bronze with Bronze Flange Chrome Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal and Flange White with White Flange

*Example: **NRM-614L8527BZ** - 6" Marquise Series, Surface Adjustable Reflector, LED, 850 Lumen, 2700K, Bronze*

Marquise Series Adjustable Trims require 6" Marquise housing - see page 60.   †*Comfort Dim requires ELV or 0-10V dimming control*

COMPATIBLE HOUSINGS:

New Construction
NHM-612 6" 1250 lumen New Construction
NHM-620 6" 2000 lumen New Construction

Remodel
NHRM-612 6" 1250 lumen Remodel
NHRM-620 6" 2000 lumen Remodel
NHMIC-685 6" 850 lumen IC New Construction
NHRMIC-685 6" 850 lumen IC Remodel
NHMICD-620 6" 2000 Lumen IC Double Wall New Construction

NORA | NSPEC®

6-1/8"

5-1/8"
7-1/2"
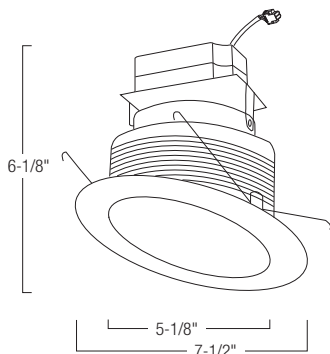
NRMC-6S11
6" Slope Reflector
B, W

NRMC-6S12
6" Slope Baffle
B, W

COMPATIBLE HOUSINGS
MARQUISE SLOPE RETROFIT

New Construction
NHIC-926LMRAT 6" ICAT Ded. LED
NHIC-926QAT 6" ICAT Line Voltage

Remodel
NHRIC-926LMRAT 6" ICAT Ded. LED
NHRIC-926QAT 6" ICAT Line Voltage

6" MARQUISE SLOPE SERIES **REFLECTORS**

TYPE	APERTURE	TRIM	LUMEN	COLOR TEMP	FINISH	VOLTAGE
NRMC Slope Retrofit	**6S1** 6"	**1** Reflector **2** Baffle	**85** 850	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**B** Black **W** White	**1** 120V **2** 277V

Example: **NRMC-6S118527W1**- *6" Marquise Retrofit, 2700K, White Reflector, White Flange, 120V*

†*Comfort Dim requires ELV or 0-10V dimming control*

COMPATIBLE HOUSINGS:

New Construction
NHMIC-926LMRAT   6" ICAT Dedicated LED
NHIC-926QAT   6" ICAT Line Voltage

Remodel
NHRMIC-926LMRAT 6" ICAT Dedicated LED
NHRIC-926QAT   6" ICAT Line Voltage

The Nora | NSpec Marquise Series 6" Slope Retrofit accommodates slope ceilings up to 23 degrees (6/12). The deep set optics can be adjusted to match the slope degree.

MARQUISE RETROFIT LIGHT COMMERCIAL AND RESIDENTIAL
## 5"* AND 6" · COMFORT DIM OPTION 850 LUMEN LED

NRMC-51
5" Open Reflector
BW, BZ, CO, DW, HZW, NN, WW

NRMC-52
5" Baffle
BW, BZ, CO, NN, WW

NRMC-61
6" Open Reflector
BW, BZ, CO, DW, HZW, NN, WW

NRMC-62
6" Baffle
BW, BZ, CO, NN, WW

5" and 6" MARQUISE SERIES **RETROFIT**

UNIT TYPE	STYLE	SOURCE	LUMEN	COLOR TEMP	FINISH	
NRMC- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**51*** 5" Open Reflector **52*** 5" Baffle **61** 6" Open Reflector **62** 6" Baffle	**L** LED	**85** 850	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim†	**BW** **BZ** **CO** **DW** **HZW** **NN** **WW**	Specular Black with White Flange Bronze with Bronze Flange Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal with Natural Metal Flange White with White Flange

*Example: **NRMC-51L8530BW** - 5" Marquise Series Retrofit, Open Reflector, LED, 850 Lumen, 3000K, Black Specular Reflector, White Self-Flange*

* Note: 5" Marquise Retrofit requires the removal of the socket to be replaced with the disconnect.   †Comfort Dim requires ELV dimming.

Marquise 5" and 6" Retrofit LEDs feature a deep cone for visual comfort and offer the 850 lumen Comfort Dim option for areas critical to ambience and feel. The retrofit fits 6" and 5" IC and Non-IC housings by Nora and others. Use Marquise Retrofits for a dramatic, economical, dimmable experience in commercial and residential spaces.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption:
850lm / 8.76W,
Color Rendering Index: 90+ CRI TrueWhite™
Color Temperature: 2700K, 3000K, 3500K, 4000K and Comfort Dim (2700K-1800K)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

DIMMING: 850 Triac ELV

DIMMING OPTIONS: White light dimming (standard); Comfort Dim (2700K-1800K)

LISTING:
cULus Listed for Wet Location

WARRANTY:
5 Year Limited Warranty

COMPATIBLE HOUSINGS
New Construction
NHIC-501QAT   5" ICAT Line Voltage
NFBIC-5INCAT   5" ICAT Fire Box
NH-501Q   5" Line Voltage
NHIC-5G24ATFL   5" ICAT GU24[1]
NHIC-5LMRAT   5" ICAT Dedicated LED
NFBIC-5LMRAT   5" ICAT Dedicated LED Fire Box
NHIC-17QAT   6" ICAT Line Voltage
NHIC-17QNBAT   6" ICAT Line Voltage (No Bracket)
NFBIC-6INCAT   6" ICAT Fire Box
NH-26Q   6" Line Voltage
NH-26QNB   6" Line Voltage (No Bracket)
NHIC-6G24ATFL   6" ICAT GU24[1]
NHIC-6LMRAT   6" ICAT Dedicated LED
NFBIC-6LMRAT   6" ICAT Dedicated LED .Fire Box

Remodel
NHRIC-504QAT   5" ICAT Line Voltage
NHR-504Q   5" Line Voltage
NHRIC-5G24ATFL   5" ICAT GU24[1]
NHRIC-5LMRAT   5" ICAT Dedicated LED
NHRIC-17QAT   6" ICAT Line Voltage
NHRIC-17QNBAT   6" ICAT Line Voltage (No Bracket)
NHR-26Q   6" Line Voltage
NHRIC-6G24ATFL   6" ICAT GU24[1]
NHRIC-6LMRAT   6" ICAT Dedicated LED
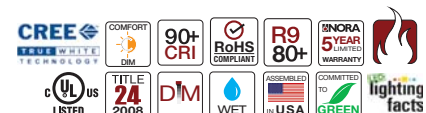
[1]*Requires **NRA-212SM** - GU24 adaptor*

NORA | NSPEC®

Comfort Dim technology allows even dimming from 2700K down to 1800K.

One LED module.
More than 100
design possibilities.
Patent-pending housing.

LED Iolite
Series

1", 2", 4" APERTURE
MODULAR LED DOWNLIGHT

Nora Lighting and NSpec's **Iolite Series of 1", 2" and 4" dedicated and retrofit modular LED adjustable downlights** come in square and round designs. The die-cast aluminum trims feature sharp, clean edges and can be aimed down for general lighting or adjusted to highlight or wall wash a focal point. The Iolite modular system allows users to field-change the beam spread without the use of tools. The 11W 1-inch and 14W 2- and 4-inch Iolite LED module produces 600 to 1000 lumens and 95 CRI in various kelvin temperatures. The Iolite family and comes in IC new construction, remodel, and 4" retrofit.

NSPEC cULus LISTED WET 90+ CRI DIM TITLE 24 2008 USA GREEN NORA 10 YEAR WARRANTY lighting facts Comfort Dim

PATENT-PENDING, IC, AIR-TIGHT HOUSING WITH DRIVER ACCESSIBILITY DESIGN

1

Driver in tray with disconnects for power and LED module.

2

Driver has pull tab for easy removal.

3
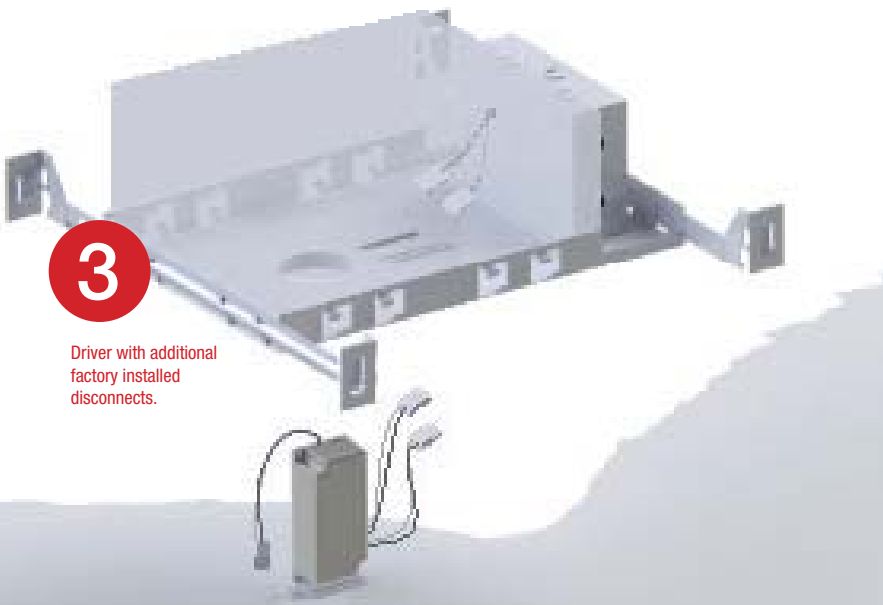
Driver with additional factory installed disconnects.

...tent-pending housing that allows the driver ...without the use of tools and without tearing ...rture Iolite housing. The Iolite patent-pending ...ows the end-user to slide out the driver and ...L approved disconnects.

IOLITE SERIES COMMERCIAL AND RESIDENTIAL
1" HOUSINGS INTEGRAL 600 LUMEN, 11W DRIVER

NHIOICD-16
1" Iolite New Construction Housing

4"
2-3/16" Cut-out

7-5/8"

12"
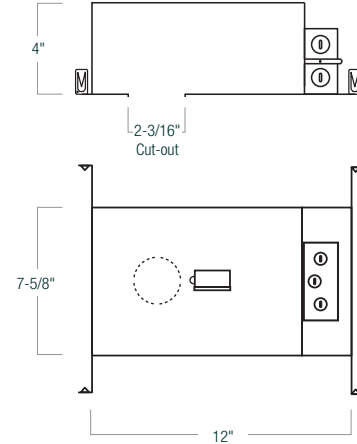
1" IOLITE SERIES HOUSING REQUIRES NIO-1 OR NIOB-1 TRIM

HOUSING TYPE	APERTURE	LUMENS	DRIVER
NHIOICD New Construction	**1** 1"	**6** 600	**LE3** 120V Triac/ELV Dimming **LE4** 120V Triac/ELV: Dimming 0-10V 277V: Dimming 0-10V

*Example: **NHIOICD-16LE3** - 1" Iolite Series LED New Construction Housing, 600 Lumen, 120V Triac Dimming*

Iolite 1" dedicated LED downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. 20˚, 40˚ and 60˚ reflectors are included with each module. The 11W Iolite LED module produces 600 lumens at 95 CRI in various kelvin temperatures.

SPECIFICATIONS:
Voltage: 120V or 277V AC
Current: 250-280mA
Lumens / Power Consumption: 600lm / 11W
Color Rendering Index: 95+ CRI
Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim
Comfort Dim: Dims from 3100K to a warm 2000K
Optics: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)
Operating Temperature: 0˚C~50˚C (32˚F~122˚F)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
**Housing:** Shallow aluminum housing is IC rated and meets air-tight requirements. Features patent-pending design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection. Housing requires top access.
Trim/Module Construction: Trims are die-cast aluminum with fine threads for joining of LED module. LED Module features COB technology and die-cast aluminum heat sink. Module includes three reflectors for beam angle selection: spot, narrow flood and flood.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation. Housing requires top access.

DRIVER/DIMMING: Two options available
LE3: Standard 120V Triac/ELV dimming
LE4: 120V Triac/ELV or 0-10V / 277V 0-10V

LISTING:
cULus Listed for Wet Location
ENERGY STAR
Compliant with 2016 Title 24 Part 6 High Efficacy LED Light Source Requirements

WARRANTY:
5 Year Limited Warranty

NORA | NSPEC

IOLITE SERIES

600 LUMEN LED 1" NTF REFLECTORS

1" IOLITE NEW CONSTRUCTION HOUSING REQUIRED

NIO-1RNB
1" Round Bull Nose Regress
Non-Adjustable
BZ, MPW, NN, WW

NIO-1SNB
1" Square Bull Nose Regress
Non-Adjustable
BZ, MPW, NN, WW

NIO-1RNG
1" Round Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIO-1SNG
1" Square Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

3"
1/16"
2-3/8"
1-1/4"

1" NTF Iolite trims feature an extremely low profile that blends seamlessly with the ceiling. **1" NTF Iolite trims are compatible only with new construction housings.**

1" IOLITE NTF MODULAR LED REFLECTORS NON-ADJUSTABLE · REQUIRES NHIOICD-1 HOUSING

SERIES	SIZE	SHAPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH
NIO- NTF Trim w/ LED Module	1 1" Non-Adjustable	R Round S Square	NB Bull Nose Regress NG Straight Regress	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K CD Comfort Dim	X 20°/40°/60°	BW Black / White BZ Bronze / Bronze HW Haze / White MPW Matte Powder White NN Natural Metal WW White / White *Not all finishes available on all trims.*

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).

*Example: **NIO-1RNB27XBZ** - 1" Iolite NTF Round Bull Nose Trim Reflector, 2700K with 20, 40 and installed 60 degree Reflectors, Bronze finish.*

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 84 for full details.

NIO-REFL(degree)FR — Frosted Filter-Reflector Assembly
Degree: 15, 25, 38, 60

NIO-AS(depth)(finish) — Translucent Deco Collar
Depth: 15, 19, 24   Finish: BLU, FR, AM, R

NIO-AS(depth)(finish) — Opaque Snoot Collar
Depth: 15, 19, 24   Finish: BLK, MPW, WH

NIO-HC — Hex Cell Louver

IOLITE SERIES COMMERCIAL AND RESIDENTIAL
1" HOUSINGS INTEGRAL 600 LUMEN, 11W DRIVER

NHIOICD-16
1" Iolite New Construction Housing

NHRIOIC-16
1" Iolite Remodel Housing

NHIOFK-1
1" Iolite Frame-In for Remodel Housing
Allows access from below.

7-5/8"
4"
2-3/16"
Cut-out
12"

4-7/8"
2-3/16"
Cut-out
10"

8-1/4"
2-3/8"
Cut-out
13"
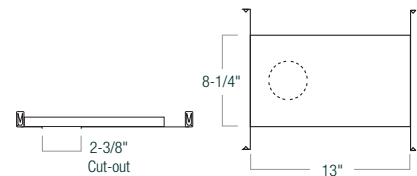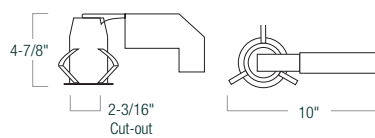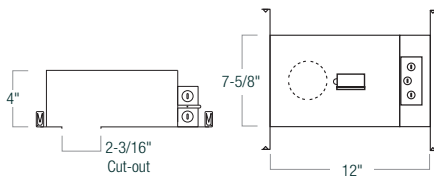
1" IOLITE SERIES HOUSING NHIOICD REQUIRES NIO-1 OR NIOB-1 TRIMS · NHRIOC REQUIRES NIOB-1

HOUSING TYPE	APERTURE		LUMENS		DRIVER
NHIOICD New Construction **NHRIOIC*** Remodel	**1**	1"	**6**	600	**LE3** 120V Triac/ELV Dimming *(New Construction only)* **LE4** 120V Triac/ELV Dimming 0-10V, 277V Dimming 0-10V
NHIOFK Frame-In	**1**	1"			New Construction Frame-In for 1" Iolite Remodel IC AT Housing - Allows access from below.

*Example: **NHIOICD-16LE3** - 1" Iolite Series LED New Construction Housing, 600 Lumen, 120V Triac Dimming*

Iolite 1" dedicated LED downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. 20˚, 40˚ and 60˚ reflectors are included with each module. The 11W Iolite LED module produces 600 lumens at 95 CRI in various kelvin temperatures.

SPECIFICATIONS:
Voltage: 120V or 277V AC
Current: 250-280mA
Lumens / Power Consumption: 600lm / 11W
Color Rendering Index: 95+ CRI
Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim
Comfort Dim: Dims from 3100K to a warm 2000K
Optics: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)
Operating Temperature: 0˚C~50˚C (32˚F~122˚F)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
New Construction Housing: Shallow aluminum housing is IC rated and meets air-tight requirements. Features patent-pending design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection. Housing requires top access.
Remodel Housing: The remodel housing is AT and IC rated. A pivoting arm allows the remodel to be used in 2 x 6 construction.
Trim/Module Construction: Trims are die-cast aluminum with fine threads for joining of LED module. LED Module features COB technology and die-cast aluminum heat sink. Module includes three reflectors for beam angle selection: spot, narrow flood and flood.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation. Housing requires top access.
Remodel: Can be installed in an existing ceiling.

Pivoting arm allows for installation in 2 x 6 construction. *Consult factory or spec sheet for new construction mounting frame for remodel.

DRIVER/DIMMING: Two options available
LE3: Standard 120V Triac/ELV dimming (New Construction only)
LE4: 120V Triac/ELV or 0-10V / 277V 0-10V

LISTING:
cULus Listed for Wet Location
ENERGY STAR
Compliant with 2016 Title 24 Part 6 High Efficacy LED Light Source Requirements

WARRANTY:
5 Year Limited Warranty

NORA | **NSPEC**®

600 LUMEN LED 1" BWF REFLECTORS

1" IOLITE NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED

NIOB-1RNB
1" Round Bull Nose Regress
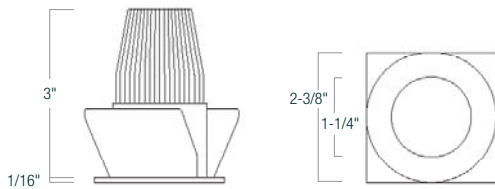Non-Adjustable
BZ, MPW, NN, WW

NIOB-1SNB
1" Square Bull Nose Regress
Non-Adjustable
BZ, MPW, NN, WW

NIOB-1RNG
1" Round Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIOB-1SNG
1" Square Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

3"
2-3/4"
1-3/8"
1/8"
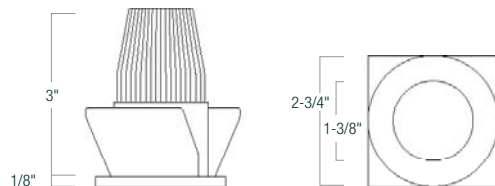
The 1" Iolite BWF series trims can be specified **for use with 1" Iolite new construction or remodel housings**. The 1" BWF trims feature a slightly larger flange design than the 1" NTF Series.

1" IOLITE BWF MODULAR LED REFLECTORS NON-ADJUSTABLE · REQUIRES NHIOICD-1 OR NHRIOC-1 HOUSING

SERIES	SIZE	SHAPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH
NIOB- BWF Trim w/ LED Module	**1** 1" Non-Adjustable	**R** Round **S** Square	**NB** Bull Nose Regress **NG** Straight Regress	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **CD** Comfort Dim	**X** 20°/40°/60°	**BW** Black / White **BZ** Bronze / Bronze **HW** Haze / White **MPW** Matte Powder White **NN** Natural Metal **WW** White / White *Not all finishes available on all trims.*
	* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).					

Example: **NIOB-1RNB27XBZ** - *1" Iolite BWF Round Bull Nose Trim / LED Module, 2700K with 20, 40 and installed 60 degree Reflectors, Bronze finish*

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 84 for full details.

NIO-REFL(degree)FR	Frosted Filter-Reflector Assembly Degree: 15, 25, 38, 60
NIO-AS(depth)(finish)	Translucent Deco Collar Depth: 15, 19, 24 Finish: BLU, FR, AM, R
NIO-AS(depth)(finish)	Opaque Snoot Collar Depth: 15, 19, 24 Finish: BLK, MPW, WH
NIO-HC	Hex Cell Louver
NIO-FMMR-1(shape)	Flush Mount 1" Mud Ring Shape: R, S Allows flanged Iolite trims to be installed flush with the ceiling plane. Flange is visible.

IOLITE SERIES COMMERCIAL AND RESIDENTIAL
2" HOUSINGS INTEGRAL 800 TO 1000 LUMEN, 14W DRIVER

NHIOICD-28
2" Iolite New Construction Housing

NHRIOIC-28
2" Iolite Remodel Housing

NHIOFK-2
2" Iolite Frame-In for Remodel Housing
Allows access from below.

7-5/8"
4"
3-1/4" Cut-out
12"

4-7/8"
3-1/4" Cut-out
10"

8-1/4"
3-3/8" Cut-out
13"
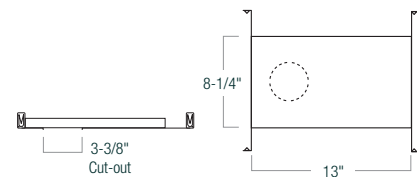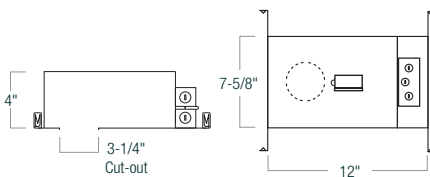
2" IOLITE SERIES HOUSING REQUIRES NIOB-2 TRIMS

HOUSING TYPE	APERTURE	LUMENS	DRIVER
NHIOICD New Construction **NHRIOIC*** Remodel	**2** 2"	**8** 800 to 1000	**LE3** 120V Triac/ELV Dimming *(New Construction only)* **LE4** 120V Triac/ELV Dimming 0-10V, 277V Dimming 0-10V
NHIOFK Frame-In	**2** 2"		New Construction Frame-In for 2" Iolite Remodel IC AT Housing - Allows access from below.

Example: **NHIOICD-28LE3** *- 2" Iolite LED New Construction, 800 to 1000 Lm, 120V Triac Dimming*

Iolite 2" dedicated LED adjustable and non-adjustable downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes 25°, 38° and an installed 60° reflector. A 15° reflector is also available. The 14W Iolite LED module produces 800 to 1000 lumens at 95 CRI in various kelvin temperatures.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 300-330mA
Lumens/Power Consumption: 800 to 1000Lm / 14W
Color Rendering Index: 95+ CRI
Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim
Comfort Dim: Dims from 3100K to a warm 2000K
Optics: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)
Operating Temperature: 0°C~50°C (32°F~122°F)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
Housing: Shallow aluminum housing is IC rated and meets air-tight requirements. Features patent-pending design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection.
Remodel Housing: The remodel housing in AT and IC rated. A pivoting arm allows the remodel to be used in 2x6 construction.
Trim/Module Construction: Trims are die-cast aluminum with fine threads for joining of LED module. LED Module features COB technology and die-cast aluminum heat sink. Module includes three reflectors for beam angle selection: spot, narrow flood and flood.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation. Housing requires top access.
Remodel: Can be installed in an existing ceiling. Pivoting arm allows for installation in 2 x 6 construction. *Consult factory or spec sheet for new construction mounting frame for remodel.

DRIVER/DIMMING: Two options available
LE3: Standard 120V Triac/ELV dimming (New Construction only)
LE4: 120V Triac/ELV or 0-10V / 277V 0-10V

LISTING:
cULus Listed for Wet Location
ENERGY STAR
Compliant with 2016 Title 24 Part 6 High Efficacy LED Light Source Requirements

WARRANTY:
5 Year Limited Warranty

NORA NSPEC®

800 TO 1000 LUMEN LED 2" BWF REFLECTORS

2" IOLITE NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED

NIOB-2RC
2" Round Cone Regress
30° Adjustable - New Construction
15° Adjustable - Remodel
BW, BZ, HW, MPW, NN, WW

NIOB-2SC
2" Square Cone Regress
15° Adjustable
BW, BZ, HW, MPW, NN, WW

NIOB-2RG
2" Round Surface Gimbal
30° Adjustable - New Construction
15° Adjustable - Remodel
BW, MPW, NN, WW

NIOB-2SG
2" Square Surface Gimbal
15° Adjustable
BW, MPW, NN, WW

NIOB-2RNDC
2" Round Deep Cone Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIOB-2SNDC
2" Square Deep Cone Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIOB-2SNDCSQ
2" Square Square Deep Cone Regress
Non-Adjustable
BW, BZ, HN, HW, MPW, WW

3-5/8"
Deep Regress
3"
1/8"
3-5/8"
2-1/4"
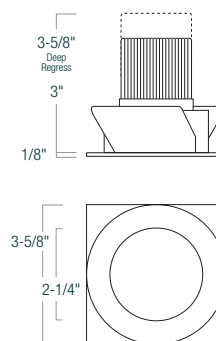
2" IOLITE BWF MODULAR LED REFLECTORS REQUIRES NHIOICD-2 OR NHRIOC-2 HOUSING

SERIES	SIZE	SHAPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH	LUMEN
NIOB- Trim w/ LED Module	**2** 2"	**R** Round **S** Square	**C** Adj. Cone Regress **G** Adj. Surface Gimbal **NDC** Non-Adj. Deep Cone Regress **NDCSQ** Square Non-Adj. Deep Cone Regress *NDCSQ only available with square trim*	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **CD** Comfort Dim*	**X** 25°/38°/60°	**BW** Black / White **BZ** Bronze / Bronze **HN** Haze / Natural Metal **HW** Haze / White **MPW** Matte Powder White **NN** Natural Metal **WW** White / White *Not all finishes available on all trims.*	(blank) 800L **/10** 1000L *1000 Lm not available with Comfort Dim*

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).

*Example: **NIOB-2RG27XBZ** - 2" Iolite Round Surface Gimbal Trim / LED Module, 2700K with 25, 38 and installed 60 degree Reflectors, Bronze finish.*

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 84 for full details.

NIO-REFL15	15° Reflector
NIO-REFL(degree)FR	Frosted Filter-Reflector Assembly Degree: 15, 25, 38, 60
NIO-AS(depth)(finish)	Translucent Deco Collar Depth: 14, 19, 26 Finish: BLU, FR, AM, R
NIO-AS(depth)(finish)	Opaque Snoot Collar Depth: 14, 19, 26 Finish: BLK, MPW, WH
NIO-HC	Hex Cell Louver
NIO-FMMR-2(shape)	Flush Mount 2" Mud Ring Shape: R, S Allows flanged Iolite trims to be installed flush with the ceiling plane. Flange is visible.

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

2" TRIMLESS REFLECTORS 800 TO 1000 LUMEN LED

2" IOLITE NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED

Iolite Trimless has no exposed trim flange and does not extend below the ceiling plane. This clean and sophisticated look is accomplished by mudding the trimless mud ring to the ceiling, then snapping the flangeless trim into the ring. Iolite Trimless is available in 2" and 4" apertures.
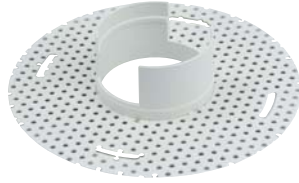
NIO-TLMR-2R
2" Round Trimless Mud Ring

NIO-2RTLA
2" Round Trimless Adjustable
15˚ Adjustable · New Const. Only
BB, BW, BZ, HW, HZ, MPW, NN, WW

NIO-2RTLNDC
2" Round Trimless Deep Cone
Non-Adjustable · New Const. Only
BB, BW, BZ, MPW, NN, WW

Iolite Trimless requires three parts:

1. **Iolite New Construction Housing**
2. **Iolite Trimless Mud Ring**
3. **Iolite Trimless Trim**

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1. IOLITE SERIES HOUSINGS TRIMLESS APPLICATION REQUIRES RESPECTIVE NHIOIC HOUSING AND NIO-2 TRIMLESS TRIM AND TRIMLESS MUD RING

HOUSING TYPE	APERTURE	LUMENS	DRIVER
NHIOICD New Construction	**2** 2"	**8** 800 to 1000	**LE3** 120V Triac/ELV Dimming **LE4** 120V Triac/ELV Dimming 0-10V 277V Dimming 0-10V

Example: NHIOICD-28LE3 - 2" Iolite Series LED New Construction Housing, 800 to 1000 Lumen Driver, 120V Triac/ELV Dimming

2. IOLITE TRIMLESS MUD RING REQUIRES RESPECTIVE NHIOICD HOUSING AND NIO-2RTL TRIM

SERIES	APERTURE	SHAPE
NIO-TLMR Trimless Mud Ring	**2** 2"	**R** Round

Example: NIO-TLMR-2R – Trimless Mud Ring for 4" Trimless Trim and Module (NIO-4RTL Series)

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3. IOLITE MODULAR LED TRIMLESS TRIMS REQUIRES RESPECTIVE NHIOICD HOUSING AND TRIMLESS MUD RING

SERIES	SHAPE	TYPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH	LUMEN
NIO-2 2" Trim w/ LED Module	**R** Round	**TL** Trimless	**A** Adjustable **NDC** Non-Adj. Deep Cone	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **CD** Comfort Dim*	**X** Spot, Narrow Flood and Flood	**BB** Black / White **BW** Black / White **BZ** Bronze / Bronze **HW**[1] Haze / White **HZ**[1] Haze / Haze **MPW** Matte Powder White **NN** Natural Metal **WW** White / White *Not all finishes available on all trims.*	(blank) 800L **/10** 1000L

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).

Example: NIO-2RTLNDC30XMPW - 2"Iolite Trimless Trim, Round Deep Cone, 3000K with three Reflectors (Flood installed), Matte Powder White Reflector/Flange.

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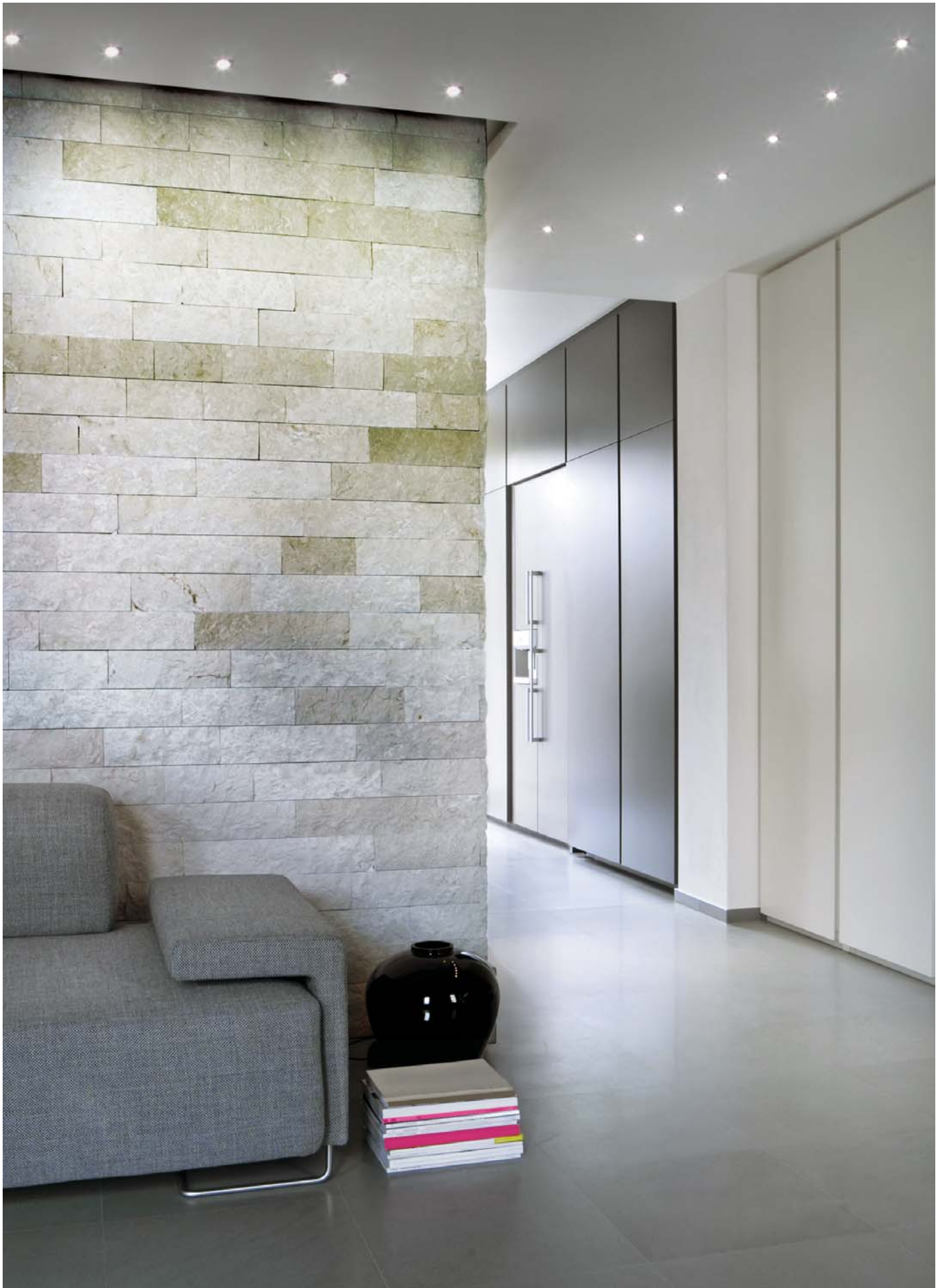
IOLITE SERIES COMMERCIAL AND RESIDENTIAL
4" HOUSINGS INTEGRAL 800 TO 1000 LUMEN, 14W DRIVER

NHIOICD-48
4" Iolite New Construction Housing

NHRIOIC -48*
4" Iolite Remodel Housing

4" | 4-1/4" Cut-out | 7-5/8" | 12"

*6-1/4" | 4-1/4" Cut-out | 4-5/8" | 13"
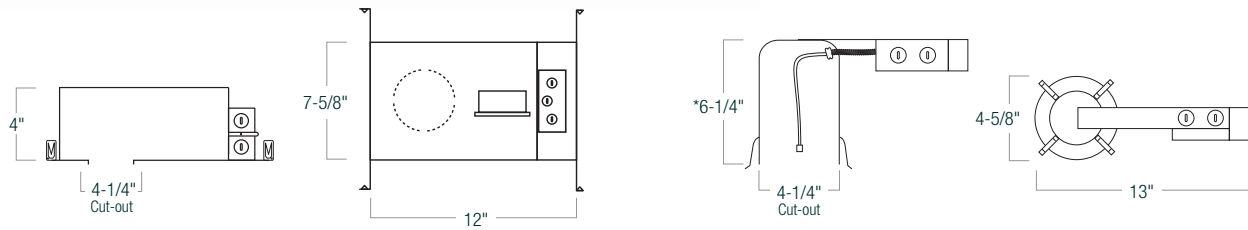
4" IOLITE SERIES HOUSING REQUIRES NIO-4 TRIMS

HOUSING TYPE	APERTURE	LUMENS	VOLTAGE
NHIOICD - New Construction **NHRIOIC** - Remodel	**4** 4"	**8** 800 to 1000	**LE3** 120V Triac/ELV Dimming **LE4** 120V Triac/ELV Dimming 0-10V *(New Construction only)* 277V Dimming 0-10V *(New Construction only)*

*Example: **NHIOICD-48LE3** - 4" Iolite LED New Construction, 800 to 1000 Lm, 120V Triac Dimming*

* Consult factory for shallow housing

Iolite 4" dedicated LED adjustable and non-adjustable downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes 25˚, 38˚ and an installed 60˚ reflector. A 15˚ reflector is also available. The 14W Iolite LED module produces 800 to 1000 lumens at 95 CRI in various kelvin temperatures.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 300-330mA
Lumens / Power Consumption: 800-1000lm / 14W
Color Rendering Index: 95+
Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim
Comfort Dim: Dims from 3100K to a warm 2000K
Optics: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)
**Operating Temperature:** 0˚C~50˚C (32˚F~122˚F)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
Housing: Shallow aluminum housing is IC rated and meets air-tight requirements. Features patent-pending design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection.
Trim/Module Construction: Trims are die-cast aluminum with fine threads for joining of LED module. LED module features COB technology and die-cast aluminum heat sink. Module includes three reflectors for beam angle selection: spot, narrow flood and flood.

INSTALLATION:
New Construction: Bar hangers are adjustable from 13-5/8" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.
Remodel: High tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience.

DIMMING: Two options available
LE3: Standard 120V Triac/ELV dimming
LE4: 120V Triac/ELV or 0-10V / 277V 0-10V (New Construction only)

Listing:
cULus Listed for Wet Location (with the exception of NIO-4RD and NIO-4SD Series)
ENERGY STAR
Compliant with 2016 Title 24 Part 6 High Efficacy LED Light Source Requirements

Warranty:
5 Year Limited Warranty

NORA | NSPEC®

800 TO 1000 LUMEN LED **4" REFLECTORS**

4" IOLITE NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED

NIO-4RC
4" Round Cone Regress
45˚ Adjustable - New Construction
40˚ Adjustable - Remodel
BW, BZ, HW, MPW, NN, WW

NIO-4SC
4" Square Cone Regress
35˚ Adjustable
BW, BZ, HW, MPW, NN, WW

NIO-4RG
4" Round Surface Gimbal
45˚ Adjustable - New Construction
40˚ Adjustable - Remodel
BW, MPW, NN, WW

NIO-4SG
4" Square Surface Gimbal
35˚ Adjustable
BW, MPW, NN, WW

NIO-4RD
4" Round Deep Adjustable Regress
45˚ Adjustable - New Construction
40˚ Adjustable - Remodel
BW, BZ, HW, MPW, NN, WW

NIO-4SD
4" Square Deep Adjustable Regress
35˚ Adjustable
BW, BZ, HW, MPW, NN, WW

NIO-4RNDC
4" Round Deep Cone Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIO-4SNDC
4" Square Deep Cone Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW

NIO-4SNDCSQ
4" Square Square Deep Cone Regress
Non-Adjustable
BW, BZ, HN, HW, MPW, WW
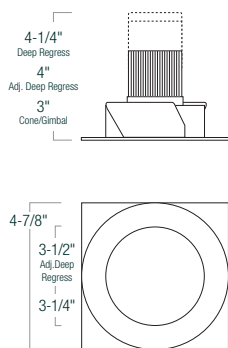
4-1/4" Deep Regress
4" Adj. Deep Regress
3" Cone/Gimbal

4-7/8"
3-1/2" Adj. Deep Regress
3-1/4"

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 84 for full details.

NIO-REFL15	15˚ Reflector
NIO-REFL(degree)FR	Frosted Filter-Reflector Assembly Degree: 15, 25, 38, 60
NIO-AS(depth)(finish)	Translucent Deco Collar
	Depth: 14, 19, 26 Finish: BLU, FR, AM, R
NIO-AS(depth)(finish)	Opaque Snoot Collar
	Depth: 14, 19, 26 Finish: BLK, MPW, WH
NIO-HC	Hex Cell Louver
NIO-FMMR-4(shape)	Flush Mount 4" Mud Ring Shape: R, S
	Allows flanged Iolite trims to be installed flush with the ceiling plane. Flange is visible.

4" IOLITE MODULAR LED **REFLECTORS** REQUIRES NHIOICD-4 OR NHRIOIC-4 HOUSING

SERIES	SIZE	SHAPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH	LUMEN
NIO- Trim w/ LED Module	**4** 4"	**R** Round **S** Square	**C** Adj. Cone Regress **G** Adj. Surface Gimbal **NDC** Non-Adj. Deep Cone Regress **NDCSQ** Square Non-Adj. Deep Cone Regress *NDCSQ only available with square trim*	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **CD** Comfort Dim*	**X** 25˚/38˚/60˚	**BW** Black / White **BZ** Bronze / Bronze **HN** Haze / Natural Metal **HW** Haze / White **MPW** Matte Powder White **NN** Natural Metal **WW** White / White *Not all finishes available on all trims.*	(blank) 800L **/10** 1000L *1000 Lm not available with Comfort Dim*

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).

Example: NIO-4SG30XNN - 4" Iolite, Square Regressed Surface Gimbal Trim / LED Module, 800 to 1000 Lumens, 3000K, Natural Metal finish

IOLITE SERIES COMMERCIAL AND RESIDENTIAL
4" TRIMLESS REFLECTORS 800 TO 1000 LUMEN LED
4" IOLITE NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED

Iolite Trimless has no exposed trim flange and does not extend below the ceiling plane. This clean and sophisticated look is accomplished by mudding the trimless mud ring to the ceiling, then snapping the flangeless trim into the ring. Iolite Trimless is available in 2" and 4" apertures.

NIO-TLMR-4R
4" Round Trimless Mud Ring

NIO-4RTLA
4" Round Trimless Adjustable
35˚ Adjustable · New Const. Only
BB, BW, BZ, HW, HZ, MPW, NN, WW

NIO-4RTLNDC
4" Round Trimless Deep Cone
Non-Adjustable · New Const. Only
BB, BW, BZ, MPW, NN, WW

Iolite Trimless requires three parts:

1. **Iolite New Construction Housing**
2. **Iolite Trimless Mud Ring**
3. **Iolite Trimless Trim**

---

1. IOLITE SERIES HOUSINGS TRIMLESS APPLICATION REQUIRES NHIOIC HOUSING AND NIO-4 TRIMLESS TRIM AND TRIMLESS MUD RING

HOUSING TYPE	APERTURE	LUMENS	DRIVER
NHIOICD New Construction	**4** 4"	**8** 800 to 1000	**LE3** 120V Triac/ELV Dimming **LE4** 120V Triac/ELV Dimming 0-10V 277V Dimming 0-10V

*Example: **NHIOICD-48LE3** - 4" Iolite Series LED New Construction Housing, 800 to 1000 Lumen Driver, 120V Triac/ELV Dimming*

2. IOLITE TRIMLESS MUD RING REQUIRES NHIOICD HOUSING AND NIO-4RTL TRIM

SERIES	APERTURE	SHAPE
NIO-TLMR Trimless Mud Ring	**4** 4"	**R** Round

*Example: **NIO-TLMR-4R** – Trimless Mud Ring for 4" Trimless Trim and Module (NIO-4RTL Series)*

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3. IOLITE MODULAR LED TRIMLESS TRIMS REQUIRES NHIOICD HOUSING AND TRIMLESS MUD RING

SERIES	SHAPE	TYPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH	LUMEN
NIO-4 4" Trim w/ LED Module	**R** Round	**TL** Trimless	**A** Adjustable **NDC** Non-Adj. Deep Cone	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **CD** Comfort Dim*	**X** Spot, Narrow Flood and Flood	**BB** Black / White **BW** Black / White **BZ** Bronze / Bronze **HW**[1] Haze / White **HZ**[1] Haze / Haze **MPW** Matte Powder White **NN** Natural Metal **WW** White / White *Not all finishes available on all trims.*	(blank) 800L **/10** 1000L

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4" CD on the same switch leg (dimmer).

*Example: **NIO-4RTLNDC30XMPW** - 4" Iolite Trimless Trim, Round Deep Cone, 3000K with three Reflectors (Flood installed), Matte Powder White Reflector/Flange.*

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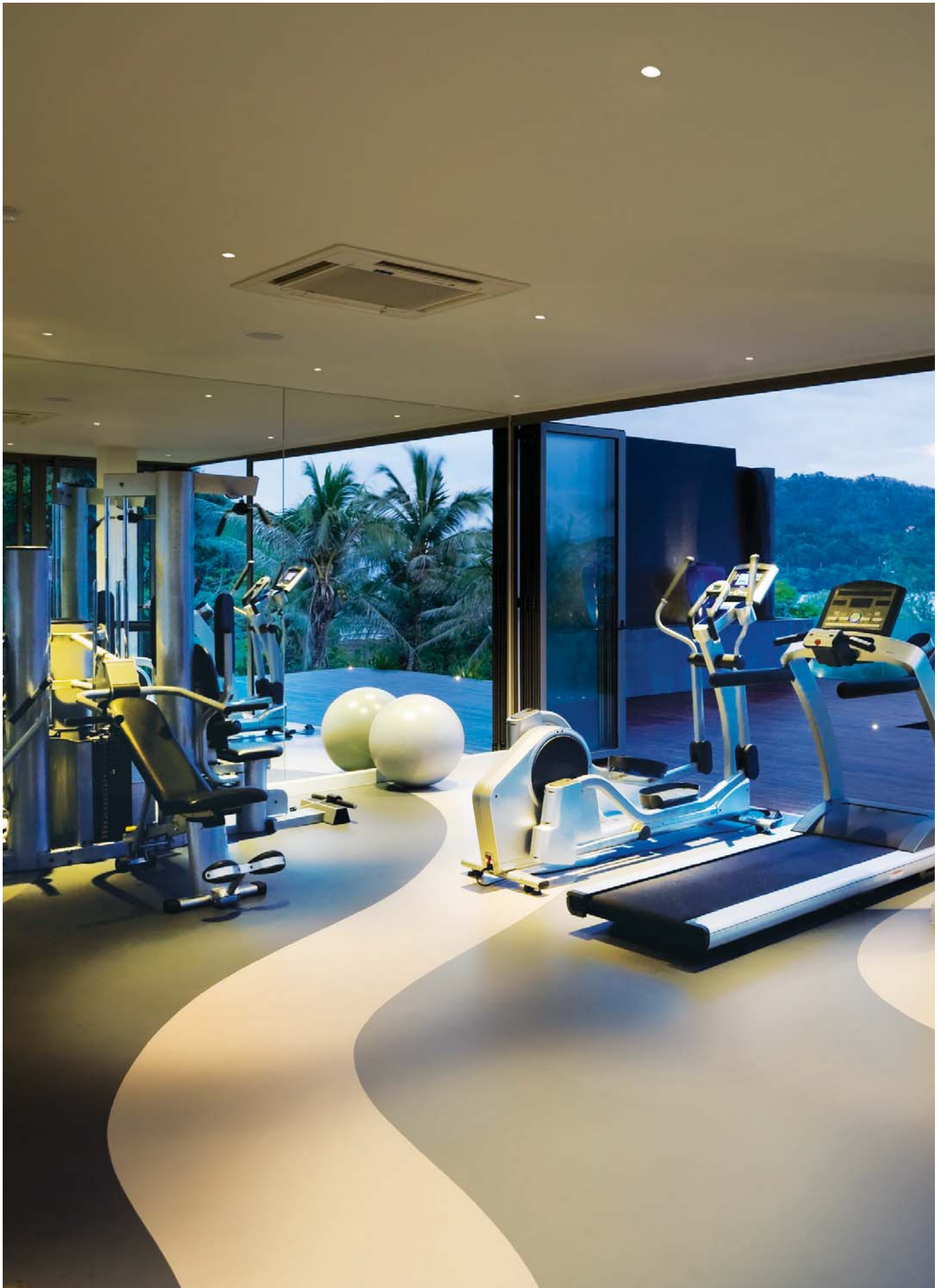
IOLITE SERIES LED RETROFIT AND DEDICATED

4" RETROFIT 800 LUMEN LED, 90+CRI

NIR-4RC
4" Round Cone Regress
BW, BZ, HZW, MPW, NN, WW

NIR-4RC
4" Square Surface Gimbal
BZ, MPW, NN, WW

4-3/4"   4.93"   3.31"

4-3/4"   3.31"   4.93"
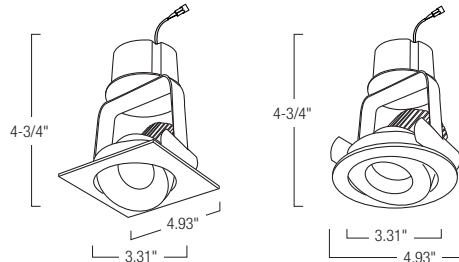
4" IOLITE RETROFIT LED ADJUSTABLE TRIMS

SERIES	SIZE	SHAPE	REFLECTOR TYPE	COLOR TEMP	BEAM SPREAD	FINISH	
NIR- Retrofit	**4** 4"	**R** Round **S** Square	**C** Cone Regressed **G** Surface Gimbal	**27** 2700K **30** 3000K **40** 4000K **50** 5000K **CD** Comfort Dim	**X** 18°/40°	**BW** **BZ** **HZW** **MPW** **NN** **WW**	Black with White Flange Bronze with Bronze Flange Haze with White Flange Matte Powder White with White Flange Natural Metal with Nat. Metal Flange White with White Flange

* Comfort Dim uses premium non-Cree COB. 1" and 2"/4"
Comfort Dim dim on a different curve. Do not put 1" CD and 2"/4"
CD on the same switch leg (dimmer).

*Example: **NRI-4RC27XWW** - 4" Iolite Retrofit Series Round Regressed Dedicated Trim with Module, 800 Lumen, 2700K, Natural Metal with Flange*

Nora Lighting & Nspec are proud to introduce Iolite, the new 4" dedicated and retrofit LED adjustable downlights in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread from 15º to 40º without using any tools. The Iolite LED module is 14W and produces 800 lumens at 95 CRI in various kelvin temperatures.

ELECTRICAL:
Voltage: 120V or 277V AC
Current: 130mA
Lumens / Power Consumption: 800lm / 14W,
Color Rendering Index: 95+ CRI
Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim
Comfort Dim: Dims from 3100K to a warm 2000K
Optics: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

CONSTRUCTION:
Housing: Shallow aluminum housing is IC rated and meets air-tight requirements. Features patent pending design with driver mounted to slide out

tray. Disconnects are furnished for the line voltage connection as well as the module connection.
Trim/Module Construction: Trims are die-cast aluminum with fine threads for joining of LED module. LED Module features COB technology and die-cast aluminum heat sink. Module includes three reflectors for beam angle selection: spot, narrow flood and flood.

MINIMUM CLEARANCES: fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components.

INSTALLATION:
Compatible with Nora housings listed and with some 4" housing by others. Check dimensions - In some cases compatibility requires removing the existing socket from housing.

DIMMING: Triac/ELV

DIMMING OPTIONS: White light dimming (standard)

EMERGENCY OPTION: Emergency back-up operates LED for a minimum of 90 minutes. Unit includes battery, charger, and test plate with indicator light.

Listing:
cULus Listed for Wet Location
ENERGY STAR
Compliant with 2016 Title 24 Part 6 High Efficacy LED Light Source Requirements
ROHS

Warranty:
5 Year Limited Warranty

COMPATIBLE HOUSINGS:
NSIC-401QAT 4" ICAT Line Voltage
NFBIC-4INCAT 4" ICAT Fire Box
NS-401QAT 4" AT Line Voltage
NHIC-4G24AT 4" ICAT GU24
NHIC-4LMRAT 4" ICAT Dedicated LED
NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box
NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V
NSR-404QAT 4" Remodel AT Line Voltage
NHRIC-4G24AT 4" Remodel ICAT GU24
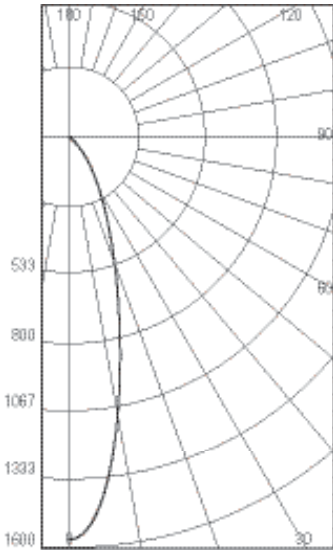**NHRIC-4LMRAT** 4" Remodel ICAT Dedicated LED

NORA NSPEC®

IOLITE SERIES PHOTOMETRICS

1" IOLITE LED 3000K, 20°

Item Number: NIO-1RNG3020WWLE3
Lamp Output: 605.1 Lumens
Max Candela: 1573.3

INTENSITY (CP) SUMMARY

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	462.6	76.4
0-40	532.7	88.0
0-60	581.5	96.1
0-90	605.1	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
393 fc	2'	1.0'
98.3 fc	4'	2.0'
43.7 fc	6'	3.0'
24.6 fc	8'	4.0'
15.7 fc	10'	5.0'
10.9 fc	12'	6.0'

2" IOLITE LED 3000K, 38°

Item Number: NIO-2RG3038WWLE3
Lamp Output: 778.7 Lumens
Max Candela: 1290.5

INTENSITY (CP) SUMMARY
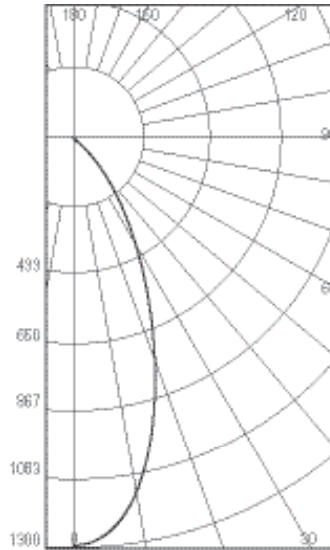
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	577.3	74.1
0-40	705.6	90.6
0-60	778.4	100.0
0-90	778.7	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
321 fc	2'	1.5'
80.3 fc	4'	3.1'
35.7 fc	6'	4.6'
20.1 fc	8'	6.1'
12.9 fc	10'	7.7'
8.92 fc	12'	9.2'

4" IOLITE LED 3000K, 25°

Item Number: NIO-4RG3025WWLE3
Lamp Output: 840.1 Lumens
Max Candela: 1715.3

INTENSITY (CP) SUMMARY
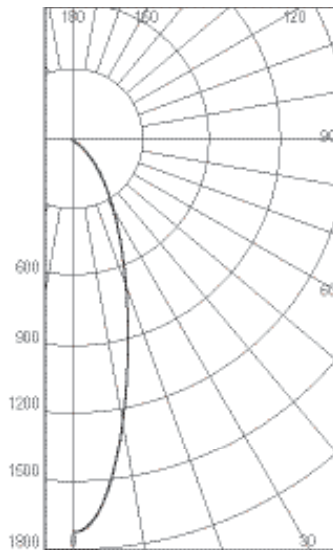
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	594.1	70.7
0-40	741.7	88.3
0-60	839.7	100.0
0-90	840.1	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
429 fc	2'	1.1'
107 fc	4'	2.2'
47.6 fc	6'	3.3'
26.8 fc	8'	4.3'
17.1 fc	10'	5.4'
11.9 fc	12'	6.5'

4" IOLITE LED 3000K, 60°

Item Number: NIO-4RG3060WWLE3
Lamp Output: 826 Lumens
Max Candela: 835.9

INTENSITY (CP) SUMMARY
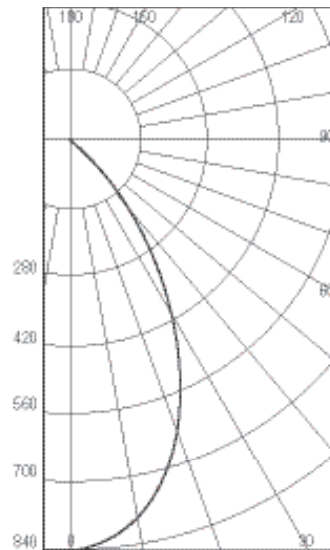
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	522.7	63.3
0-40	713.7	86.4
0-60	825.5	99.9
0-90	826.0	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
209 fc	2'	2.3'
52.2 fc	4'	4.7'
23.2 fc	6'	7.0'
13.1 fc	8'	9.3'
8.35 fc	10'	11.7'
5.80 fc	12'	14.0'

IOLITE SERIES ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim.

15˚ Reflector

NIO-REFL15

Reflector for 2" and 4" Iolite trims only.

Frosted Filter-Reflector Assembly

NIO-1REFL20FR	20˚ Reflector, 1" Iolite
NIO-1REFL40FR	40˚ Reflector, 1" Iolite
NIO-1REFL60FR	60˚ Reflector, 1" Iolite
NIO-REFL15FR	15˚ Reflector, 2" and 4" Iolite
NIO-REFL25FR	25˚ Reflector, 2" and 4" Iolite
NIO-REFL38FR	38˚ Reflector, 2" and 4" Iolite
NIO-REFL60FR	60˚ Reflector, 2" and 4" Iolite

Filter-Reflector assemblies include specified reflector and frosted lens. Lens can be installed in other reflectors supplied with units.
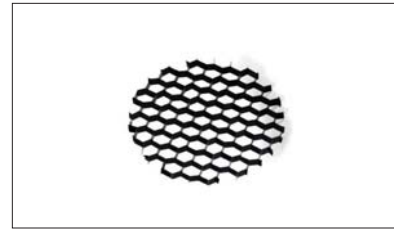
Hex Cell Louver

NIO-1HC	for 1" Iolite
NIO-HC	for 2" and 4" Iolite

Hex cell louver subtlety reduces aperture brightness by reducing light output by about 20%.

Translucent Deco Collar

NIO-1AS15(color)	5/8" (15mm) depth, 1" Iolite
NIO-1AS19(color)	3/4" (19mm) depth, 1" Iolite
NIO-1AS24(color)	1" (24mm) depth, 1" Iolite
NIO-AS14(color)	5/8" (15mm) depth, 2" and 4" Iolite
NIO-AS19(color)	3/4" (19mm) depth, 2" and 4" Iolite
NIO-AS26(color)	1" (24mm) depth, 2" and 4" Iolite

FINISH: BLU Blue; **FR** Frost; **AM** Amber; **R** Red

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.

Opaque Collar Snoot

NIO-1AS15(color)	5/8" (15mm) depth, 1" Iolite
NIO-1AS19(color)	3/4" (19mm) depth, 1" Iolite
NIO-1AS24(color)	1" (24mm) depth, 1" Iolite
NIO-AS14(color)	5/8" (15mm) depth, 2"/4" Iolite
NIO-AS19(color)	3/4" (19mm) depth, 2"/4" Iolite
NIO-AS26(color)	1" (24mm) depth, 2"/4" Iolite

COLOR: BLK Black; **MPW** Matte Powder White; **WH** White

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light).

Flush Mount Mud Ring

NIO-FMMR-1R	1" Round
NIO-FMMR-1S	1" Square
NIO-FMMR-2R	2" Round
NIO-FMMR-2S	2" Square
NIO-FMMR-4R	4" Round
NIO-FMMR-4S	4" Square

Allows flanged Iolite trims to be installed even with the ceiling plane. Flange is visible. Attaches to drywall. Requires professional drywall finishing. Requires and only for use with respective NHIOICD-16 / NIOB-1, NHIOICD-28 / NIOB-2, NHIOICD-48 / NIO-4 new construction housings and trims.

THREE FINISHING OPTIONS:

FLANGED OR TRIM

A standard finishing technique, the Flanged or Trim option requires the least labor and offers the largest selection of trims. The Iolite flange is extremely thin, extending off the ceiling ever so slightly, approximately 1/16".

FLUSH MOUNT

The Flush Mount option requires the installation of the flush mount mud ring after the drywall is installed. A professional drywall finisher floats the ceiling to blend in the mud-ring. An electrician then installs the Iolite trim with the flange exposed but even with the ceiling plane for a beautiful seamless appearance.

TRIMLESS

Often referred to as flange-less, the Trimless option is considered the premium finishing technique. The trimless effect requires the installation of the trimless mud ring after the drywall is installed. A professional drywall finisher floats the ceiling to blend in the mud-ring, sands and paints. The trim is then inserted into the ring and the result is a spectacular, minimalist appearance with no flange.

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Color the aperture while
producing white general light
with **Translucent Collars**

NIO-4RNDC30XHW / NIO-AS19BLU
4" Round Deep Regress Trim with Translucent Deco Collar in Blue

Create a mood with
Color Accessories

NIO-4SNDC30XWW / NIO-AS19AM
4" Square Deep Cone Regress Trim with
Translucent Deco Collar in Amber

Reduce aperture brightness
while preserving light output
with **Opaque Collars**

NIOB-2SG30XWW / NIO-AS26BLK
2" Square Surface Gimbal Trim with Opaque Collar Snoot in Black

Create a soft glow with
Frosted Accessories

NIOB-1RNG40XWW / NIO-1AS24FR
1" BWF Round Straight Regress Trim
with Translucent Deco Collar in Frost

LED Cobalt Series

1000 LUMEN, HIGH PERFORMANCE LED DOWNLIGHT

The Cobalt Series offers the latest technology in COB (chip on board) LED design using Cree LEDs and Cree supported drivers. The 1000 Lumen COB sits behind a diffused lens deep set into an aluminum reflector providing excellent visual comfort.

The Cobalt offers the Nora designed UTM heat management system. The thick die-cast aluminum plate between the driver and LED platform dissipates the back heat of the LED platform out and away from the driver, a feature only found on units costing three to four times the Cobalt.

COBALT SERIES LED RETROFIT AND DEDICATED

4" RETROFIT 1000 LUMEN LED

NLCBC-451D
4" Deep Reflector
BZ, DD, DW, HZW, WW
2700, 3000, 3500, 4000

NLCBC-452D
4" Deep Baffle
BZ, DW, HZW, WW
2700, 3000, 4000

NLCBC-453
4" Square Round
WW
2700, 3000

NLCBC-455
4" Square Pinhole
WW
2700, 3000

NLCBC-456
4" Square Regress
WW
2700, 3000

Each Cobalt unit includes a medium base socket for easy retrofitting

COBALT SERIES 4" RETROFIT & DEDICATED UNIT

SERIES	TRIM TYPE	COLOR TEMP	FINISH	OPTION
NLCBC - units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**451D** Reflector	**30** 3000K **35** 3500K	**DD** Diffused/Diffused **DW** Diffused/White **WW** White/White	**LE4** 120V Triac or 0-10V / 277V 0-10V **LE4EM** LE + Emerg.
	451D Reflector **452D** Baffle	**27** 2700K **30** 3000K **40** 4000K	**BZ** Bronze **DW** Diffused/White **HZW** Haze/White **WW** White/White	**(blank)** 120V Triac **EM** Emergency
	453 Square Round **455** Square Pinhole **456** Square Regres	**27** 2700K **30** 3000K	**WW** White/White	

*Example: **NLCBC-451D30HZW** - 4" Cobalt Series Retrofit, Deep Cone Reflector, 90+ CRI, 3000K, Haze Reflector and White Flange*

3-1/4" 451D, 452D
3" 453, 455, 456

1-3/8" 451D, 452D

4" 451D, 452D
3-3/4" 453
2-1/2" 455
2" 456

5-1/8"
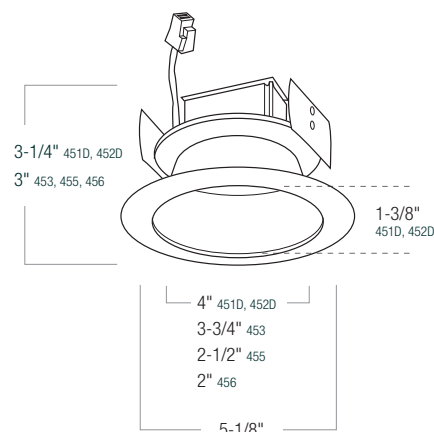
Nora Lighting's 4" LED Cobalt Luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 1000 Lumen output, drawing 16W and rendering 95CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 400mA
Lumens: 1000lm
Power Consumption: 16 Watts
Color Rendering Index: 95 CRI
Operating Temperature: 0°C~50°C (32°F~122°F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Shatter-proof diffused polycarbonate lens, deep set for for excellent glare control.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Damp Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-4INCAT 4" ICAT Fire Box
NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box

NSIC-401QAT 4" ICAT Line Voltage
NS-401QAT 4" AT Line Voltage
NHIC-4G24AT 4" ICAT GU24
NHIC-4LMRAT 4" ICAT Dedicated LED
NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V
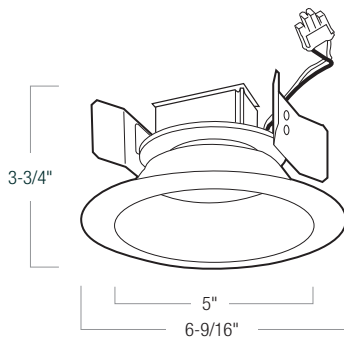
NSR-404QAT 4" Remodel AT Line Voltage
NHRIC-4G24AT 4" Remodel ICAT GU24
NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

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3-3/4"

5"

6-9/16"

Each Cobalt unit includes a medium base socket for easy retrofitting

NLCBC-551
5" Reflector
BZ, DW, HZW, WW
2700, 3000, 4000

NLCBC-552
5" Baffle
BZ, WW
2700, 3000, 4000

COBALT SERIES **5" RETROFIT & DEDICATED UNIT**

SERIES	TRIM TYPE	COLOR TEMP	FINISH	OPTION
NLCBC - units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**551** Reflector **552** Baffle	**27** 2700K **30** 3000K **40** 4000K	**BZ** Bronze/Bronze **DW** Diffused/White (551 only) **HZW** Haze/White (551 only) **WW** White/White	**(blank)** 120V Triac **EM** Emergency

Example: **NLCBC-55130BZ** *- 5" Cobalt Series Retrofit, Reflector, 95 CRI, 3000K, Bronze Reflector and Bronze Flange*

Nora Lighting's 5" LED Cobalt Luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 1000 Lumen output, drawing 16W and rendering 95CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 400mA
Lumens: 1000lm
Power Consumption: 16 Watts
Color Rendering Index: 95 CRI
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Shatter-proof diffused polycarbonate lens, deep set for for excellent glare control.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers
   IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

LISTING:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:

🔥 **NFBIC-5INCAT** 5" ICAT Fire Box
🔥 **NFBIC-5LMRAT** 5" ICAT Dedicated LED Fire Box

NHIC-501QAT 5" ICAT Line Voltage
NH-501Q 5" Line Voltage
NHIC-5G24ATFL 5" ICAT GU24
NHIC-5LMRAT 5" ICAT Dedicated LED
NHIC-5LMRAT/277 5" ICAT Dedicated LED, 277V
   Includes step-down transformer. Converts 277V to 120V

NHRIC-504QAT 5" Remodel ICAT Line Voltage
NHR-504Q 5" Remodel Line Voltage
NHRIC-5G24ATFL 5" Remodel ICAT GU24
NHRIC-5LMRAT 5" Remodel ICAT Dedicated LED
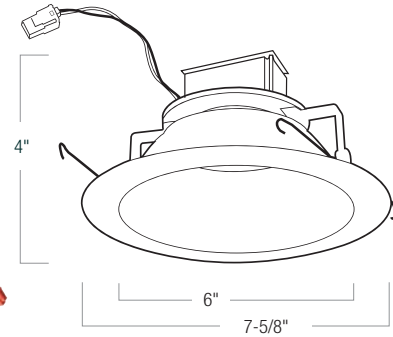
COBALT SERIES LED RETROFIT AND DEDICATED

6" RETROFIT 1000 LUMEN LED

NLCBC-651
6" Reflector
BZ, DD, DW, HZW, WW
2700, 3000, 3500, 4000K

NLCBC-652
6" Baffle
BZ, WW
2700, 3000, 4000K

Each Cobalt unit includes a medium base socket for easy retrofitting

4"

6"

7-5/8"

COBALT SERIES 6" RETROFIT & DEDICATED UNIT

SERIES	TRIM TYPE	COLOR TEMP	FINISH	OPTION
NLCBC - units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**651** Reflector **652** Baffle	**27** 2700K **30** 3000K **35** 3500K (651 only) **40** 4000K	**BZ** Bronze/Bronze **DD** Diffused/Diffused (651 only) **DW** Diffused/White (651 only) **HZW** Haze/White (651 only) **WW** White/White	**(blank)** 120V Triac **EM** Emergency **LE4** 120V Triac or 0-10V / 277V 0-10V **LE4EM** LE + Emergency

*Example: **NLCBC-55130BZ** - 5" Cobalt Series Retrofit, Reflector, 95 CRI, 3000K, Bronze Reflector and Bronze Flange*

Nora Lighting's 6" LED Cobalt Luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 1000 Lumen output, drawing 16W and rendering 95CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 1000lm
Power Consumption: 16 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0˚C~50˚C (32˚F~122˚F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Torsion springs

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Deep set for excellent glare control scientifically designed for optimal performance.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Damp Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-6INCAT 6" ICAT Fire Box
NFBIC-6LMRAT 6" ICAT Dedicated LED Fire Box

NHIC-17QAT 6" ICAT Line Voltage
NHIC-17QNBAT 6" ICAT Line Voltage (No Bracket)
NH-26Q 6" Line Voltage
NH-26QNB 6" Line Voltage (No Bracket)
NHIC-6G24ATFL 6" ICAT GU24
NHIC-6LMRAT 6" ICAT Dedicated LED
NHIC-6LMRAT/277 6" ICAT Dedicated LED, 277V
  Includes step-down transformer. Converts 277V to 120V

NHRIC-17QAT 6" Remodel ICAT Line Voltage
NHRIC-17QNBAT 6" Remodel ICAT Line Volt (No Bracket)
NHR-26Q 6" Remodel Line Voltage
NHRIC-6G24ATFL 6" Remodel ICAT GU24
NHRIC-6LMRAT 6" Remodel ICAT Dedicated LED

CREE LEDs | 90+ CRI | RoHS COMPLIANT | R9 80+ | NORA 5 YEAR LIMITED WARRANTY | COMMITTED TO GREEN | ENERGY STAR

cULus LISTED | TITLE 24 2008 | DIM | WET | ASSEMBLED IN USA | lighting facts

NORA | NSPEC®

LED Cobalt Click Series

RETROFIT, NEW CONSTRUCTION AND REMODEL HIGH PERFORMANCE LED DOWNLIGHT

750 LUMEN

PATENT PENDING

Quick Connects
Easily connect the LED Retrofit to an existing or new housing. Also works with Nora Dedicated housings

Medium Screw Base
Optional GU24 adapter available

Dimmable Integral Driver
2-wire dimming down to 10% with standard Incandescent dimmer. For optimum 5% dimming and minimal loads use electronic low voltage dimmer. Available in 0-10V dimming, EM and 277V configurations

UTM
Featuring a thick aluminum plate to dissipate heat from LED platform and driver

CREE COB LEDs
2700K, 3000K and 4000K, 97 CRI Conform to IESNA LM-79 and LM-80 1000 Lumens/16W

"Click"
Cobalt Click units ship complete with specified reflector, but changing the reflector in the field is a simple as a "Click".

UL Classified
for use in 4", 5" and 6" IC or Non-IC housings by Nora and others

Apertures
3-7/8", 4-5/8" and 5-1/4" Small size, high Lumen output

cULus Listed
Wet Location Listed

Interchangeable "Click" on Trims
Reflector, Baffle, Square, Wall Wash and Adjustable

Deep Set Diffused Lens
for visual comfort and low aperture brightness.

CREE LEDs | c(UL)us LISTED | ENERGY STAR | WET | 90+ CRI | DIM | TITLE 24 2008 | RoHS COMPLIANT | R9 80+ | ASSEMBLED IN USA | COMMITTED TO GREEN | NORA 5 YEAR LIMITED WARRANTY | lighting facts

NORA | NSPEC

LED RETROFIT AND DEDICATED COBALT CLICK SERIES
750 LUMEN LED 4" RETROFIT

Each Cobalt unit includes a medium base socket for easy retrofitting

NLCBC2-451
4" Deep Reflector
BB, BW, BZ, CO, DW, HZW, NN, WW

NLCBC2-452
4" Deep Baffle
BB, BW, BZ, NN, WW

NLCBC2-453
4" Square Round
BZ, DW, HZW, WW

NLCBC2-456
4" Square Regress
BB, BW, BZ, HZW, NN, PW, WW

COBALT CLICK SERIES 4" RETROFIT & DEDICATED UNIT

SERIES	TRIM TYPE	COLOR TEMP	FINISH		VOLTAGE
NLCBC2 - units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**451** Deep Reflector **452** Deep Baffle **453** Square Round **456** Square Regress	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	**BB** **BW** **BZ** **CO** **DW** **HZW** **NN** **PW** **WW**	Black with Black Flange Black with White Flange Bronze with Bronze Flange Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal with Natural Metal Flange Pewter with White Flange White with White Flange	**(blank)** 120V Triac **LE2** 277V Non-Dim **LE4*** 120V Triac / 120V 0-10V / 277V 0-10V **EM**** Emergency **LE4EM**** LE4 Dim + Emergency

*Example: **NLCBC2-45130WW** - 4" Cobalt Click Retrofit, Deep Reflector Trim, 3000K, White Reflector with White Flange*

*Requires NHIC-4LMRAT/4W Housing   **Requires NHIC-4MRAT/EM Housing (includes battery and remote test switch)

Nora Lighting's patent-pending 4" LED Cobalt Click luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 750 Lumen output, drawing 12W and rendering 97 CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green, energy efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 300mA
Lumens: 750lm
Power Consumption: 12 Watts
Color Rendering Index: 97 CRI
Operating Temperature: 0℃~75℃ (32°F~167°F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with Dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

LENS: Deep set for excellent glare control and scientifically designed for optimal performance.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated version)

ENERGY STAR® Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-4INCAT 4" ICAT Fire Box
NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box

NSIC-401QAT 4" ICAT Line Voltage
NS-401QAT 4" AT Line Voltage
NHIC-4G24AT 4" ICAT GU24
NHIC-4LMRAT 4" ICAT Dedicated LED
NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NSR-404QAT 4" Remodel AT Line Voltage
NHRIC-4G24AT 4" Remodel ICAT GU24
NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

COBALT CLICK SERIES LED RETROFIT AND DEDICATED
5" RETROFIT 750 LUMEN LED

NLCBC2-551
5" Deep Reflector
BB, BW, BZ, CO, DW, HZW, NN, WW

NLCBC2-552
5" Deep Baffle
BB, BW, BZ, NN, WW

NLCBC2-553
5" Square Round
BZ, DW, HZW, WW

NLCBC2-556
5" Square Regress
BB, BW, BZ, HZW, NN, PW, WW

Each Cobalt unit includes a medium base socket for easy retrofitting

COBALT CLICK SERIES 5" RETROFIT & DEDICATED UNIT

SERIES	TRIM TYPE	COLOR TEMP	FINISH		VOLTAGE
NLCBC2 - units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**551** Deep Reflector **552** Deep Baffle **553** Square Round **556** Square Regress	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	**BB** **BW** **BZ** **CO** **DW** **HZW** **NN** **PW** **WW**	Black with Black Flange Black with White Flange Bronze with Bronze Flange Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal with Natural Metal Flange Pewter with White Flange White with White Flange	**(blank)** 120V Triac **LE2** 277V Non-Dim **LE4*** 120V Triac / 120V 0-10V / 277V 0-10V **EM**** Emergency **LE4EM**** LE4 Dim + Emergency

*Example: **NLCBC2-55130WW** - 5" Cobalt Click Retrofit, Deep Reflector Trim, 3000K, White Reflector with White Flange*

*Requires NHIC-5LMRAT/4W Housing   **Requires NHIC-5MRAT/EM Housing (includes battery and remote test switch)

Nora Lighting's patent-pending 5" LED Cobalt Click luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 750 Lumen output, drawing 12W and rendering 97 CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green, energy efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 300mA
Lumens: 750lm
Power Consumption: 12 Watts
Color Rendering Index: 97 CRI
Operating Temperature: 0°C~75°C (32°F~167°F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with Dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

LENS: Deep set for excellent glare control and scientifically designed for optimal performance.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant

Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

LISTING:
5 Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-5INCAT 5" ICAT Fire Box
NFBIC-5LMRAT 5" ICAT Dedicated LED Fire Box

NHIC-501QAT 5" ICAT Line Voltage
NH-501Q 5" Line Voltage
NHIC-5G24ATFL 5" ICAT GU24
NHIC-5LMRAT 5" ICAT Dedicated LED
NHIC-5LMRAT/277 5" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NHRIC-504QAT 5" Remodel ICAT Line Voltage
NHR-504Q 5" Remodel Line Voltage
NHRIC-5G24ATFL 5" Remodel ICAT GU24
NHRIC-5LMRAT 5" Remodel ICAT Dedicated LED

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LED RETROFIT AND DEDICATED # COBALT CLICK SERIES
750 LUMEN LED 6" RETROFIT

Each Cobalt unit includes a medium base socket for easy retrofitting

NLCBC2-651
6" Deep Reflector
BB, BW, BZ, CO, DW, HZW, NN, WW

NLCBC2-652
6" Deep Baffle
BB, BW, BZ, NN, WW

NLCBC2-653
6" Square Round
BZ, DW, HZW, WW

NLCBC2-656
6" Square Regress
BB, BW, BZ, HZW, NN, PW, WW

COBALT CLICK SERIES 6" RETROFIT & DEDICATED UNIT

SERIES	TRIM TYPE	COLOR TEMP	FINISH		VOLTAGE
NLCBC2- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**651** Deep Reflector **652** Deep Baffle **653** Square Round **656** Square Regress	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	**BB** **BW** **BZ** **CO** **DW** **HZW** **NN** **PW** **WW**	Black with Black Flange Black with White Flange Bronze with Bronze Flange Copper with Copper Flange Diffused Clear with White Flange Haze with White Flange Natural Metal with Natural Metal Flange Pewter with White Flange White with White Flange	**LE2** 277V **LE4*** 0-10V **EM**** Emergency

Example: NLCBC2-65130WW - 6" Cobalt Click Retrofit, Deep Reflector Trim, 3000K, White Reflector with White Flange

*Requires NHIC-6LMRAT/4W Housing   **Requires NHIC-6MRAT/EM Housing (includes battery and remote test switch)

Nora Lighting's patent-pending 6" LED Cobalt Click luminaires are cULus listed for use in existing IC or Non-IC housings manufactured by Nora and others. The units provide 750 Lumen output, drawing 12W and rendering 97 CRI. Nora's Cobalt LEDs intergrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green, energy efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 300mA
Lumens: 750lm
Power Consumption: 12 Watts
Color Rendering Index: 97 CRI
Operating Temperature: 0℃~75℃ (32℉~167℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with Dedicated)
GU24 Socket (accessory available)

INSTALLATION: Torsion springs

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

LENS: Deep set for excellent glare control and scientifically designed for optimal performance.

DIMMING: Nora Cobalt Series works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Damp Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated version)
ENERGY STAR® Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-6INCAT 6" ICAT Fire Box
NFBIC-6LMRAT 6" ICAT Dedicated LED Fire Box

NHIC-17QAT 6" ICAT Line Voltage
NHIC-17QNBAT 6" ICAT Line Voltage (No Bracket)
NH-26Q 6" Line Voltage
NH-26QNB 6" Line Voltage (No Bracket)
NHIC-6G24ATFL 6" ICAT GU24
NHIC-6LMRAT 6" ICAT Dedicated LED
NHIC-6LMRAT/277 6" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NHRIC-17QAT 6" Remodel ICAT Line Voltage
NHRIC-17QNBAT 6" Remodel ICAT Line Volt (No Bracket)
NHR-26Q 6" Remodel Line Voltage
NHRIC-6G24ATFL 6" Remodel ICAT GU24
NHRIC-6LMRAT 6" Remodel ICAT Dedicated LED

LED Onyx Series

4", 5"/6" APERTURE LED DOWNLIGHT

Quick Connects
Easily connect the LED Retrofit to an existing or new housing. Also works with Nora Dedicated housings

Dimmable Integral Driver
2-wire dimming down to 10% with standard Incandescent dimmer. For optimum 5% dimming and minimal loads use electronic low voltage dimmer

Deep Set Diffused Lens
for visual comfort and low aperture brightness

Medium Screw Base
Optional GU24 adapter available (**NRS-212SM**)

cULus Listed
Wet Location Listed

UL Classified
for use in 4", 5" and 6" IC or Non-IC housings by Nora and others

Adjustable
4" – 18˚
5/6" – 40˚

Reflector or Baffle
Self-Flanged Spun Aluminum

Apertures
3-3/4" and 5-1/4"
High lumen output

Samsung LEDs
2700K, 3000K, 4000K
90+ CRI
Conform to IESNA LM-79 and LM-80

Nora Lighting's Onyx Series is an economical and quality series LED downlight for Retrofit, New Construction or Remodel applications. Supported by Nora's world class service, the Onyx is an excellent residential and light commercial solution to energy effcient LED lighting. cULus listed for wet location and ENERGY STAR listed the Onyx produces 650 (4") and 750 (5/6") lumens at 90+ CRI using Samsung LEDs.

FEATURES

· 5-Year limited warranty
· 4" – 650 Lumen / 10 watt
· 5"/6" – 750 Lumen / 12 watt
· Deep-set optics
· 90+ CRI
· 2700K, 3000K and 4000K CCT
· Baffle, Reflector and Adjustable trim styles
· White finish

· Includes Medium Base socket for easy retrofitting
· Small disconnect compatible with most dedicated housing by others
· 36,000 Hour life
· ENERGY STAR rated
· cULus listed for Wet location
· Title 24/JA8 Compliant

ONYX SERIES LED RETROFIT AND DEDICATED
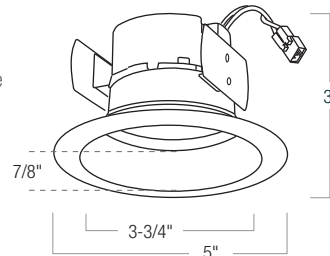# 4" RETROFIT 650 LUMEN LED

NOX-431WW
4" Reflector

NOX-432WW
4" Baffle

Medium Screw Base
Optional GU24 adapter available
(**NRS-212SM**)

3"
7/8"
3-3/4"
5"

ONYX SERIES **4" RETROFIT & DEDICATED UNIT**

SERIES	APERTURE	TRIM TYPE	COLOR TEMP	FINISH	VOLTAGE
NOX- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**4** 4-inch	**31** Reflector **32** Baffle	**27** 2700K **30** 3000K **40** 4000K	**WW** White with White Flange	120V

*Example: **NOX-43130WW** - 4" Onyx Retrofit Reflector, 90+ CRI, 3000K, White Reflector and Flange*

Nora Lighting's 4" LED Onyx luminaires are cULus listed for use in existing 4" IC or Non-IC housings manufactured by Nora and others. The units provide 650 Lumen output, drawing 10W and rendering 90+CRI. Nora's Onyx LEDs intergrate the latest from the Samsung family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 650lm
Power Consumption: 10 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0°C~50°C (32°F~122°F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with Dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Deep set for excellent glare control scientifically designed for optimal performance.

DIMMING: Nora Onyx Retrofit works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-4INCAT 4" ICAT Fire Box
NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box

NSIC-401QAT 4" ICAT Line Voltage
NS-401QAT 4" AT Line Voltage
NHIC-4G24AT 4" ICAT GU24
NHIC-4LMRAT 4" ICAT Dedicated LED
NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NSR-404QAT 4" Remodel AT Line Voltage
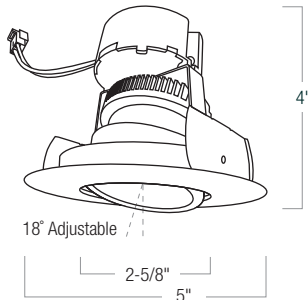**NHRIC-4G24AT** 4" Remodel ICAT GU24
NHRIC-4LMRAT 4" Remodel ICAT Dedicated LE

90+ CRI | WET | RoHS COMPLIANT | NORA 5 YEAR LIMITED WARRANTY | COMMITTED TO GREEN | DIM | TITLE 24

ENERGY STAR | lighting facts | c UL us LISTED

NORA NSPEC®

4"

18° Adjustable

2-5/8"

5"

Medium Screw Base
Optional GU24 adapter available
(**NRS-212SM**)

NOX-434WW
4" Adjustable

ONYX SERIES **4" ADJUSTABLE RETROFIT & DEDICATED UNIT**

SERIES	APERTURE	TRIM TYPE	COLOR TEMP	FINISH	VOLTAGE
NOX- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**4** 4-inch	**34** Adjustable	**27** 2700K **30** 3000K **40** 4000K	**WW** White with White Flange	120V

*Example: **NOX-43430WW** - 4" Onyx Retrofit Adjustable, 90+ CRI, 3000K, White Reflector and Flange*

Nora Lighting's 4" LED Onyx adjustables are cULus listed for use in existing 4" IC or Non-IC housings manufactured by Nora and others. The units provide 650 Lumen output, drawing 10W and rendering 90+CRI. Nora's Onyx LEDs intergrate the latest from the Samsung family of LED arrays, giving bright spectacular light output and low power consumption. The Onyx 4" adjustable can be used in slope ceiling, wall wash and focal point enhancement applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 650lm
Power Consumption: 10 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0°C~50°C (32°F~122°F)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with Dedicated)
GU24 Socket (accessory available)

INSTALLATION: Friction Blades

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Deep set for excellent glare control scientifically designed for optimal performance.

DIMMING: Nora Onyx Retrofit works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

COMPATIBLE HOUSINGS:
NFBIC-4INCAT 4" ICAT Fire Box
NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box

NSIC-401QAT 4" ICAT Line Voltage
NS-401QAT 4" AT Line Voltage
NHIC-4G24AT 4" ICAT GU24
NHIC-4LMRAT 4" ICAT Dedicated LED
NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NSR-404QAT 4" Remodel AT Line Voltage
NHRIC-4G24AT 4" Remodel ICAT GU24
NHRIC-4LMRAT 4" Remodel ICAT Dedicated LE

90+ CRI | WET | RoHS COMPLIANT | NORA 5YEAR LIMITED WARRANTY | COMMITTED TO GREEN | DIM | TITLE 24

ENERGY STAR | lighting facts | cULus LISTED

ONYX SERIES LED RETROFIT AND DEDICATED
5/6" RETROFIT 750 LUMEN LED

Medium Screw Base
Optional GU24 adapter available
(**NRS-212SM**)

4"

1-1/4"

5-1/4"

7-1/4"

NOX-5631WW
5/6" Reflector

NOX-5632WW
5/6" Baffle
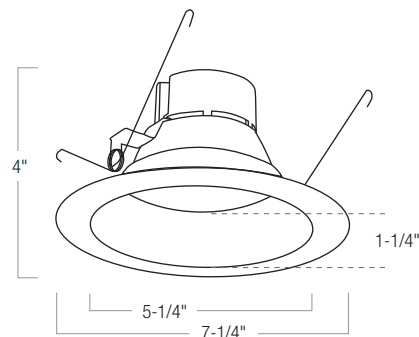
ONYX SERIES 5"/6" RETROFIT & DEDICATED UNIT

SERIES	APERTURE	TRIM TYPE	COLOR TEMP	FINISH	VOLTAGE
NOX- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**56** 5-inch or 6-inch	**31** Reflector **32** Baffle	**27** 2700K **30** 3000K **40** 4000K	**WW** White with White Flange	120V

Example: ***NOX-563230WW*** *- 5"/6 " Onyx Retrofit Baffle, 90+ CRI, 3000K, White Baffle and Flange*

Nora Lighting's 5/6" LED Onyx Luminaires are cULus listed for use in existing 5" or 6" IC or Non-IC housings manufactured by Nora and others. The units provide 750 Lumen output, drawing 12W and rendering 90+CRI. Nora's Onyx LEDs intergrate the latest from the Samsung family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for green energy-efficient lighting in commercial and residential applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 750lm
Power Consumption: 12 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Torsion springs on adjustable holders for 5" or 6" housing installations.

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Deep set for excellent glare control scientifically designed for optimal performance.

DIMMING: Nora Onyx Retrofit works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

5" COMPATIBLE HOUSINGS:
NFBIC-5INCAT 5" ICAT Fire Box
NFBIC-5LMRAT 5" ICAT Dedicated LED Fire Box

NHIC-501QAT 5" ICAT Line Voltage
NH-501Q 5" Line Voltage

NHIC-5G24ATFL 5" ICAT GU24
NHIC-5LMRAT 5" ICAT Dedicated LED
NHIC-5LMRAT/277 5" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NHRIC-504QAT 5" Remodel ICAT Line Voltage
NHR-504Q 5" Remodel Line Voltage
NHRIC-5G24ATFL 5" Remodel ICAT GU24
NHRIC-5LMRAT 5" Remodel ICAT Dedicated LED

6" COMPATIBLE HOUSINGS:
NFBIC-6INCAT 6" ICAT Fire Box
NFBIC-6LMRAT 6" ICAT Dedicated LED Fire Box

NHIC-17QAT 6" ICAT Line Voltage
NHIC-17QNBAT 6" ICAT Line Voltage (No Bracket)
NH-26Q 6" Line Voltage
NH-26QNB 6" Line Voltage (No Bracket)
NHIC-6G24ATFL 6" ICAT GU24
NHIC-6LMRAT 6" ICAT Dedicated LED
NHIC-6LMRAT/277 6" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V
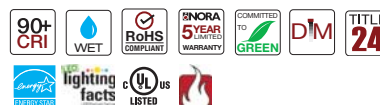
NHRIC-17QAT 6" Remodel ICAT Line Voltage
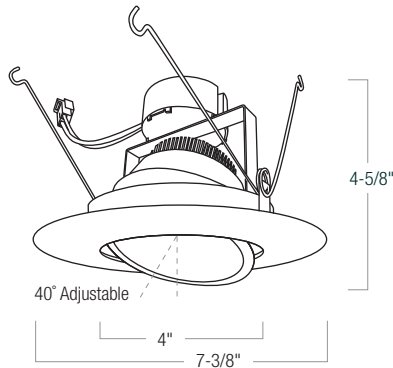**NHRIC-17QNBAT** 6" Remodel ICAT Line Volt (No Bracket)
NHR-26Q 6" Remodel Line Voltage
NHRIC-6G24ATFL 6" Remodel ICAT GU24
NHRIC-6LMRAT 6" Remodel ICAT Dedicated LED

NORA | NSPEC®

ONYX SERIES

750 LUMEN LED 5"/6" ADJUSTABLE RETROFIT

4-5/8"

40° Adjustable

4"

7-3/8"

Medium Screw Base
Optional GU24 adapter available
(**NRS-212SM**)

NOX-5634WW
5/6" Adjustable

ONYX SERIES **5"/6" ADJUSTABLE RETROFIT & DEDICATED UNIT**

SERIES	APERTURE	TRIM TYPE	COLOR TEMP	FINISH	VOLTAGE
NOX- units are cULus listed for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	**56** 5-inch or 6-inch	**34** Adjustable	**27** 2700K **30** 3000K **40** 4000K	**WW** White with White Flange	120V

*Example: **NOX-563430WW** - 5"/6 " Onyx Retrofit Adjustable, 90+ CRI, 3000K, White Baffle and Flange*

Nora Lighting's 5/6" LED Onyx adjustables are cULus listed for use in existing 5" or 6" IC or Non-IC housings manufactured by Nora and others. The units provide 750 Lumen output, drawing 12W and rendering 90+CRI. Nora's Cobalt LEDs intergrate the latest from the Samsung family of LED arrays, giving bright spectacular light output and low power consumption. The Onyx 5/6" adjustable can be used in Slope Ceiling, Wall-Wash and Focal Point enhancement applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 750lm
Power Consumption: 12 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Torsion springs on adjustable holders for 5" or 6" housing installations.

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Deep set for excellent glare control scientifically designed for optimal performance.

DIMMING: Nora Onyx Retrofit works with standard leading and trailing edge dimming technologies. Dimming with leading-edge dimmers (electronic) are 5-100% and for trailing-edge dimmers (incandescent) 10-100%. There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manufacturer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
WSEC ASTM E283 for Air-Tight (with IC Housing)
Title 24 Compliant (GU24 & Dedicated Version)
ENERGY STAR Rated
RoHS Compliant
Lighting Facts approved
Conforms to IESNA LM-79 and LM-80

WARRANTY:
5-Year Limited Warranty

5" COMPATIBLE HOUSINGS:
NFBIC-5INCAT 5" ICAT Fire Box
NFBIC-5LMRAT 5" ICAT Dedicated LED Fire Box

NHIC-501QAT 5" ICAT Line Voltage
NH-501Q 5" Line Voltage

NHIC-5G24ATFL 5" ICAT GU24
NHIC-5LMRAT 5" ICAT Dedicated LED
NHIC-5LMRAT/277 5" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

NHRIC-504QAT 5" Remodel ICAT Line Voltage
NHR-504Q 5" Remodel Line Voltage
NHRIC-5G24ATFL 5" Remodel ICAT GU24
NHRIC-5LMRAT 5" Remodel ICAT Dedicated LED

6" COMPATIBLE HOUSINGS:
NFBIC-6INCAT 6" ICAT Fire Box
NFBIC-6LMRAT 6" ICAT Dedicated LED Fire Box

NHIC-17QAT 6" ICAT Line Voltage
NHIC-17QNBAT 6" ICAT Line Voltage (No Bracket)
NH-26Q 6" Line Voltage
NH-26QNB 6" Line Voltage (No Bracket)
NHIC-6G24ATFL 6" ICAT GU24
NHIC-6LMRAT 6" ICAT Dedicated LED
NHIC-6LMRAT/277 6" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V

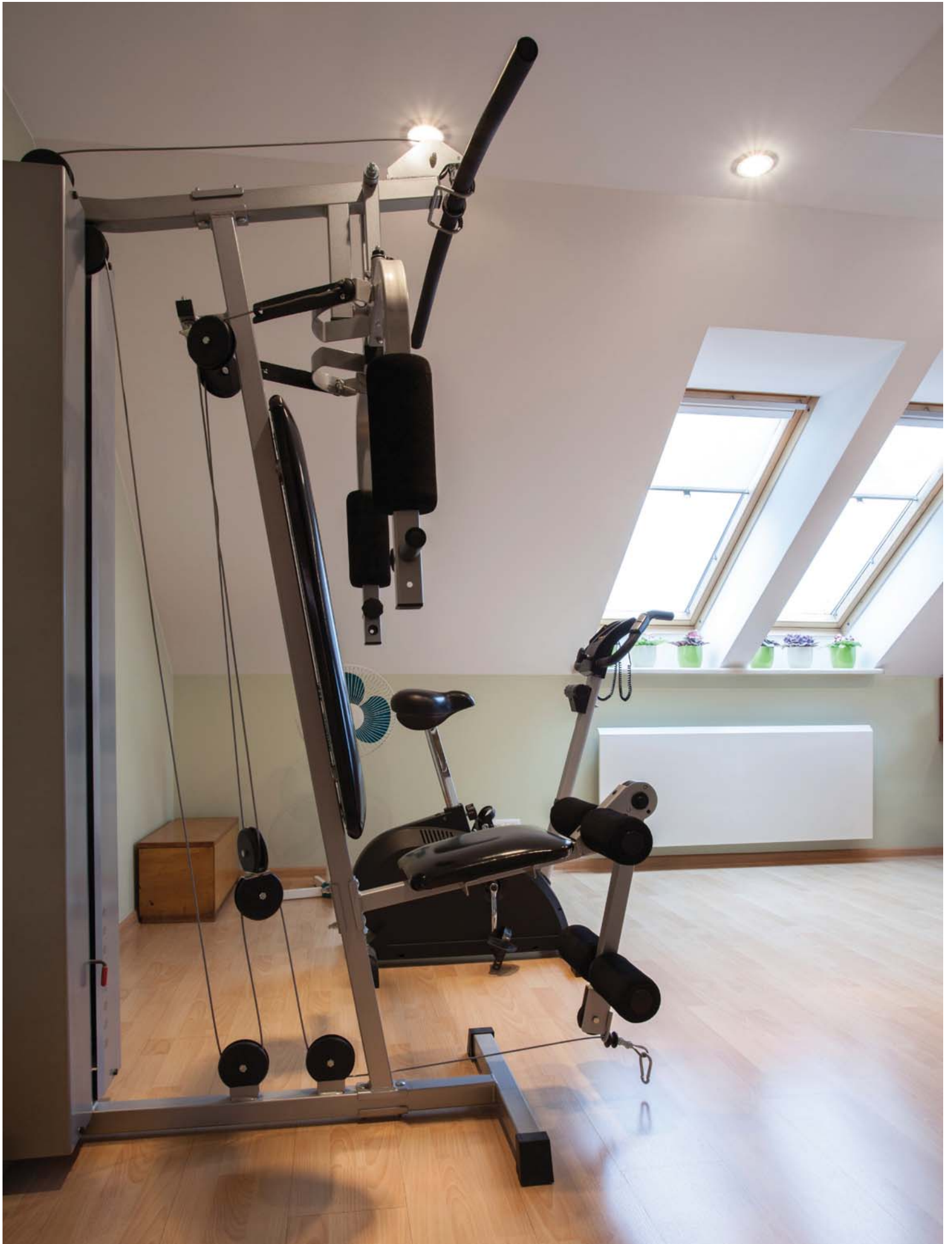**NHRIC-17QAT** 6" Remodel ICAT Line Voltage
NHRIC-17QNBAT 6" Remodel ICAT Line Volt (No Bracket)
NHR-26Q 6" Remodel Line Voltage
NHRIC-6G24ATFL 6" Remodel ICAT GU24
NHRIC-6LMRAT 6" Remodel ICAT Dedicated LED

90+ CRI | WET | RoHS COMPLIANT | NORA 5YEAR LIMITED WARRANTY | COMMITTED TO GREEN | DIM | TITLE 24

ENERGY STAR | lighting facts | cULus LISTED

LED Opal Series

RETROFIT, NEW CONSTRUCTION AND REMODEL HIGH PERFORMANCE LED DOWNLIGHT

Simple Installation
for Retrofit or New Construction

SURFACE INSTALLATION INTO JUNCTION BOX

1. Wire pigtail with quick-connect.
2. Connect quick-connect to Opal.
3. Use key-hole slots to screw Opal into place.
4. Remove protective diode shield and twist lens into place.

RECESSED INSTALLATION INTO HOUSING

1. For retrofit applications, remove existing trim and lamp.
2. Attach torsion springs to Opal.
3. Screw in medium socket and connect.
4. Pinch torsions springs into holders on housing and gently move Opal into place, secure against the ceiling.
5. Remove protective diode shield and twist lens into place.

Opal installs into a junction box or recessed housing

Quick connects make installation a snap

Base plate screws to j-box or secures to housing with included torsion springs

Lens twists into place

Installation into 5" or 6" recessed housing

LED OPAL SERIES LED RETROFIT AND DEDICATED
SURFACE OR RECESSED MOUNT 800–1050 LUMEN, 90+CRI

NLOP-R6509

2-1/2"
1-1/8"
4"

INCLUDED
WITH EACH OPAL FIXTURE:

MEDIUM BASE SOCKET
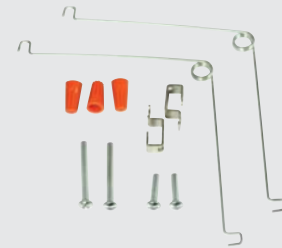
TORSION SPRING AND BRACKET KIT
For easy retrofitting with 5" or 6 recessed housing

QUICK-CONNECT PIGTAIL
For dedicated and quick installation with a 4" J-box

LED OPAL SERIES **UNIT**

TYPE	COLOR TEMP	WATTAGE / LUMENS	FINISH
NLOP-R6509	**27** 2700K **30** 3000K	12.5W / 800 Lumens	**BZ** Bronze **NM** Natural Metal **W** White
	30A 3000K	13W / 1050 Lumens	

*Example: **NLOP-R650930W** - 6" Diamond II Series Retrofit, Regressed Reflector, 90+ CRI, 3000K, White Reflector and Flange*

The Opal Series LED fixture is designed to surface mount over a standard J-Box or is suitable for use with a 5" or 6" recessed housing by Nora or others. The Opal produces even illumination with no diode image, from bright to dim. The low profile unit is cULus wet listed and produces 800 to 1050 lumens at 90+ CRI. Available in three finishes the Opal is an excellent energy efficient lighting solution for laundry rooms, closets, pantries, hallways and showers in residential and commercial retrofit or new construction applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 800lm
Power Consumption: 12.5 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Installs in most 4" square, octagon, or round electrical junction boxes with a minimum depth of 2 1/8". Optional torsion springs and brackets included for mounting in 5" or 6" recessed housings by Nora and others.

CONSTRUCTION: Scientifically and specifiable "Unitized Thermal Management system" (UTM) provides exceptional cool operation exceeding all industry standards.

LENS: Nora specified and designed precision molded lens for optimal lumen output and even distribution.

DIMMING: Down to 5% with electronic low voltage dimmer or 10% with 2-wire dimmer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
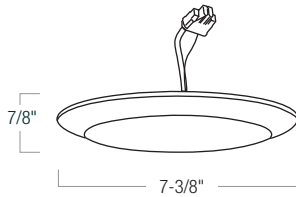WSEC ASTM E283 for Air-Tight (with IC Housing)
ENERGY STAR Rated
CEC Title 24/JA8 Listed

WARRANTY:
5-Year Limited Warranty

NORA | NSPEC®

7/8"

7-3/8"

NLOP-R6509

LED OPAL SERIES **UNIT**

TYPE	COLOR TEMP	WATTAGE / LUMENS	FINISH
NLOPAC-R6509	**27A** 2700K **30A** 3000K **40A** 4000K	15W / 1050 Lumens	**BZ** Bronze **NM** Natural Metal **W** White

*Example: **NLOPAC-R650930AW** - 6" AC Opal Surface Mount Retrofit, 3000K, White Finish*

The Opal Series LED AC fixture is designed to surface mount over a standard J-Box. The Opal produces even illumination with no diode image, from bright to dim. The low profile unit is cULus wet listed and produces 1050 lumens at 90+ CRI. Available in three finishes the Opal is an excellent energy efficient lighting solution for laundry rooms, closets, pantries, hallways and showers in residential and commercial retrofit or new construction applications.

ELECTRICAL:
Voltage: 120VAC
Current: 100mA
Lumens: 1050lm
Power Consumption: 12.5 to 15 Watts
Color Rendering Index: 90+ CRI
Operating Temperature: 0℃~50℃ (32℉~122℉)
Life Expectancy: 50,000 Hours

SOCKET:
Edison Medium Base Socket (included with Retrofit)
Quick Connect (included with dedicated)
GU24 Socket (accessory available)

INSTALLATION: Installs over most 4" square, octagon, or round electrical junction boxes. Optional torsion springs and brackets for mounting in 5" or 6" recessed housings by Nora and others (not included).

CONSTRUCTION: AC LED, no driver. One piece aluminum die-formed housing and trim. Aluminum body dissipates heat and extends life.

LENS: Nora specified and designed precision molded lens for optimal lumen output and even distribution.

DIMMING: Down to 5% with electronic low voltage dimmer or 10% with 2-wire dimmer.

LISTING:
cULus Listed for Wet Location
UL Classified for use with most manufacturers IC and Non-IC housings
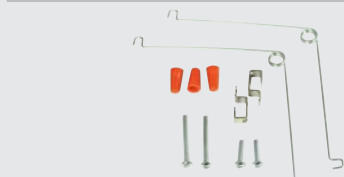ENERGY STAR Rated

WARRANTY:
5-Year Limited Warranty

OPTIONAL ACCESSORIES FOR AC OPAL FIXTURE:

MEDIUM BASE SOCKET

NLOPAC-56RECKIT
TORSION SPRING AND BRACKET KIT
For easy retrofitting with 5" or 6 recessed housing

QUICK-CONNECT PIGTAIL
For dedicated and quick installation with a 4" J-box

MULTIPLE LIGHTING SYSTEM

NORA | NSPEC®
LIGHTING

LED MLS Series

1 TO 3 LINEAR ADJUSTABLE CONFIGURATIONS

1 ROW / 1 LAMP LINEAR   1 ROW / 2 LAMPS LINEAR   1 ROW / 3 LAMPS LINEAR

Nora Lighting's **LED Multiple Lighting System (MLS)** is a recessed, multi-point lighting system with one, two or three independently adjustable and controlled fixtures in a single ceiling opening. Available in flanged and trimless styles in several finishes, MLS is an excellent choice for residential, commercial, retail, and gallery applications.

Flexibility   One opening with one, two or three independently adjustable and controlled fixtures.

Control   One opening can provide both flood general lighting and spot accent lighting.

Complete Selection   Recessed multiples available in a single row with one to three lights; Surface mount multiples available in a single row with one to six lights, and a square four light configuration.

Lower Construction Cost   One opening with three lights versus three openings, means lower installation costs.

Architecturally Appealing   Nora MLS fixtures are available with a 2-1/4" regressed flat closed face or a flange-less open face. Multiple lights in a single opening creates a cleaner, less cluttered ceiling appearance.

Lower Maintenance Cost   Multiple lights in a single opening means fewer trips up the ladder, saving time and labor.

Low Temperature   Housings are vented on the top for cool operation, extending lamp life.

Lamp Sources   Energy saving LED. Nora Multiple Lighting Systems are also available in high color rendition HID Ceramic Metal Halide, Low Voltage, and PAR Halogen Incandescent/LED.

Finishes   Flanged fixtures are available in white face, fixtures and white flange, black face and fixtures with white flange, and silver face, fixtures and flange. Trimless fixtures are available in white or black.

Easy Maintenance   Driver is easily accessible from below, and does not require top access.

**Custom Capabilities**   Mix sources and trims in the same MLS fixture.

LED DEDICATED MLS

1-3 ADJUSTABLE UP TO 3000 LUMEN PER MODULE

Regress

Flat

LED MULTIPLE TRIM *Requires Housing, sold seperately*

SERIES	FACE PLATE	MODULES	LUMEN/MODULE	COLOR TEMP	FACE/FLANGE FINISH
NMRT-	**1** Regress **1F** Flat*	**1** One **2** Two **3** Three	**L85** 850 **L12** 1250 **L20** 2000 **L30** 3000	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CD** Comfort Dim† (27-18K)	**BW** Black/White **SS** Silver/Silver **WW** White/White

Example: **NMRT-12L8527WW** - Linear LED; 2 Modules; 1700 Lumens; 2700K; White Face, White Flange
* Flat face plate only available in White/White
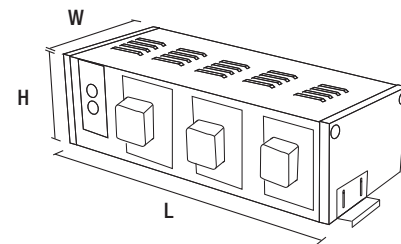
LED MULTIPLE HOUSING *Requires Trim, sold seperately*

SERIES	MODULES	DRIVER	VOLTAGE	LUMEN/MODULE
NMRG-1	**1** One **2** Two **3** Three	**D** Driver **C** Comfort Dim†	**1** 120V **2** 277V	**L85** 850 **L12** 1250 **L20** 2000 **L30** 3000 **CD** Comfort Dim

Example: **NMRG-12D1L85** - Linear LED; 2 Modules; Driver; 120V; 850 Lumens each

Note: 2000 or 3000 lumen Comfort Dim modules require 4000 Lumen drivers.
† Comfort Dim requires ELV or 0-10V dimming

DIMENSIONS:

| Configuration	1 Lamp	2 Lamp	3 Lamp
Width*	9-1/2"	9-1/2"	9-1/2"
Length**	9-1/2"	18"	23-1/2"
Height	8"	8"	8"
Cut-out	8-1/2" x 9-1/2"	8-1/2" x 18"	8-1/2" x 22-1/2"

*Width does not include Driver
**Length does not include Adjustable Brackets

NSpec expands its line of MLS fixtures to now include LED dedicated adjustable lighting modules. Available in 1 to 3 light linear configurations, the MLS LED fixture offers 850, 1250, 2000, and 3000 lumen output in 27K, 30K, 35K, 40K and Comfort Dim temperatures per opening. The MLS face plate is regressed to maintain a clean ceiling appearance. Trim finishes are white/white, white/black, and silver/silver. Additionally there is a flat face plate with gimbal rings in white. The units are completely serviceable from below and can be specified in either 120V or 277V. They can be wired as a single complete unit or as 2-3 individually controlled or dimmed modules. The NEW MLS LEDs compliments the current MLS Low Voltage, CMH and Incandescent PAR series.

FEATURES:

· 850, 1250, 2000 and 3000 Lumens
· 90+ CRI, Cree TrueWhite™ Technology
· 2700K, 3000K, 3500K, and 4000K
· Available in Comfort Dim - 2700K to 1800K
· Dimmable
· Independently adjustable at every opening
· Fixtures adjustable to 40˚ with 350˚ rotation
· Three configurations: one-light square, two and three-light linear
· Lower installation and maintenance costs
· Architecturally appealing with regressed or flat closed face for finished look
· Finishes include White Face and Fixture with White Flange; Black Face and Fixture with White Flange; Silver Face and Fixture with Silver Flange
· 5-year limited warranty

NMRG-11E3L20 / NMRT-11L2030WW

ACROSS
45
ALONG

NORA | NSPEC®
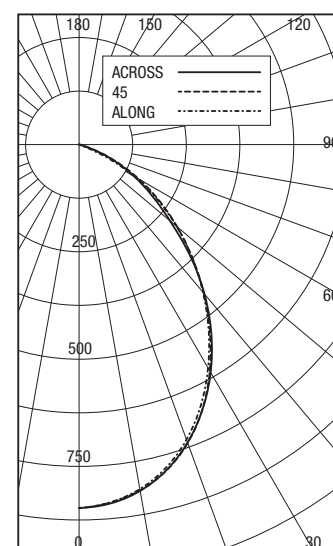
MULTIPLE LIGHTING SYSTEM
LED COMPATIBLE LINE VOLTAGE 1 TO 3 ADJUSTABLE

Regress   Flat

LINE VOLTAGE MULTIPLE **TRIM** *Requires Housing, sold seperately*

SERIES	FACE FLATE	LAMPS	TRIMS	FACE/FLANGE FINISH	LED LAMP INCLUDED
NMRT-	**1** Regress	**1** One	**628** PAR30 Eyeball	**BW** Black/White	**(Blank)** No Lamp
	1F Flat*	**2** Two	**652** PAR30 Gimbal	**SS** Silver/Silver	**EXX** see chart at right
		3 Three	**653** PAR38 Gimbal	**WW** White/White	**AXX** see chart at right

*Example: **NMRT-1F2628WWE33** - Incandescent Linear; 2 Lamps; PAR30 Eyeball; White Flat Face & Flange, (2) E33 LEDs*
* Flat face plate only available in White/White & PAR30

LINE VOLTAGE MULTIPLE **HOUSING** *Requires Trim, sold seperately*

SERIES	LAMPS	BALLAST	VOLTAGE	LAMP TYPE	WATTAGE
NMRI-1	**1** One	**N** None	**1** 120V	**0** PAR30	**75**[1] 75W
	2 Two				
	3 Three			**8** PAR38	**150**[1] 150W

*Example: **NMRI-12N1075** - Incandescent Linear, 2 Lamp; 120V Input; 75W PAR30*

[1]*Custom wattage labeling available by factory. NMRI-12N1030 - Line voltage, 1 Row, 2 Lamp, 120V, 15 watt max per socket*

Nora Lighting's family of Line Voltage MLS fixtures can be used in residential, commercial and retail applications. Nora's MLS fixtures allow a single ceiling opening to have 1 to 3 independently adjustable trims. The housings can be installed in drywall, plaster, and suspended ceilings.

SOCKET: Steel shell porcelain socket. Medium screw-in base.

LAMP TYPES:
75W[1] PAR30 max   150W[1] PAR38 max

WIRING: Each unit has a wiring channel with leads from each socket, there by allowing independent switching or dimming. (Additonal switch legs are required).

CEILING THICKNESS: Accepts 1" maximum ceiling thickness.

INSTALLATION: Universal brackets accepts C-Channel or flat bar hangers (ordered separately), or simple rigid 1/2" steel conduit for tie-down to ceiling grids.

MINIMUM CLEARANCE: Requires a minimum clearance of 3" from thermal insulation and 1/2" from any adjacent building components.

HOUSING: Heavy gauge post painted steel. Vented on top for cool operation. Transformer(s) may be accessed from below.

KNOCKOUTS: Six 3/4" knockouts included - 2 each on 3 sides.

LISTING:
cULus Damp Location

COMAPATIBLE LED LAMPS
LINE VOLTAGE MLS

LED PAR30 Short Neck

E30* LED 12W 2700K PAR30 740 Lumens, 20°

E31* LED 12W 3000K PAR30 750 Lumens, 20°

E32* LED 12W 2700K PAR30 740 Lumens, 35°

E33* LED 12W 3000K PAR30 750 Lumens, 35°

LED PAR30 Long Neck

A36* LED 13W 2700K PAR30 680 Lumens, 40°

A37* LED 13W 3000K PAR30 700 Lumens, 40°

LED PAR38

A83* LED 20W 3000K PAR38 1200 Lumens, 25°

A84* LED 20W 2700K PAR38 1150 Lumens, 40°

A85* LED 20W 3000K PAR38 1200 Lumens, 40°

E80* LED 20W 2700K PAR38 1000 Lumens, 15°

E81* LED 20W 3000K PAR38 1100 Lumens, 15°

E82* LED 20W 2700K PAR38 1000 Lumens, 25°

E83* LED 20W 3000K PAR38 1100 Lumens, 25°

E84* LED 20W 2700K PAR38 1000 Lumens, 40°

E85* LED 20W 3000K PAR38 1100 Lumens, 40°

LED PAR38 Low Glare

E86 LED 17W 3000K PAR38 LG 820 Lms, 15°

E88 LED 17W 3000K PAR38 LG 820 Lms, 40°

* Dimmable

see page 131 for LED Lamp Specs

LED Trimless MLS Series

1 TO 3 LINEAR ADJUSTABLE CONFIGURATIONS

1 ROW / 1 LAMP LINEAR TRIMLESS   1 ROW / 2 LAMPS LINEAR TRIMLESS   1 ROW / 3 LAMPS LINEAR TRIMLESS

Nora Lighting's **LED Multiple Lighting System (MLS)** is a recessed, multi-point lighting system with one, two or three independently adjustable and controlled fixtures in a single ceiling opening. Available in flanged and trimless styles in several finishes, MLS is an excellent choice for residential, commercial, retail, and gallery applications.

Flexibility   One opening with one, two or three independently adjustable and controlled fixtures.

Control   One opening can provide both flood general lighting and spot accent lighting.

Complete Selection   Recessed multiples available in a single row with one to three lights; Surface mount multiples available in a single row with one to six lights, and a square four light configuration.

Lower Construction Cost   One opening with three lights versus three openings, means lower installation costs.

Architecturally Appealing   Nora MLS fixtures are available with a 2-1/4" regressed flat closed face or a flange-less open face. Multiple lights in a single opening creates a cleaner, less cluttered ceiling appearance.

Lower Maintenance Cost   Multiple lights in a single opening means fewer trips up the ladder, saving time and labor.

Low Temperature   Housings are vented on the top for cool operation, extending lamp life.

Lamp Sources   Energy saving LED. Nora Multiple Lighting Systems are also available in high color rendition HID Ceramic Metal Halide, Low Voltage, and PAR Halogen Incandescent/LED.

Finishes   Flanged fixtures are available in white face, fixtures and white flange, black face and fixtures with white flange, and silver face, fixtures and flange. Trimless fixtures are available in white or black.

Easy Maintenance   Driver is easily accessible from below, and does not require top access.

Custom Capabilities   Mix sources and trims in the same MLS fixture.
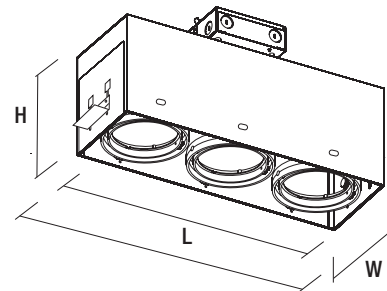
TRIMLESS LED DEDICATED MLS

1-3 ADJUSTABLE · 1900 LUMEN MODULES · SINGLE OPENING

4-1/2"

2-7/8"

4-1/2"

TRIMLESS LED DEDICATED MLS **HOUSING** *Requires module, sold seperately*

SERIES	MODULES	BALLAST/DRIVER	VOLTAGE	LUMEN/MODULE	FINISH
NMRTLG-1	**1** One **2** Two **3** Three	**D** Standard	**1** 120V **2** 277V	**L19** 1900 Lm	**B** Black **W** White

*Example: **NMRTLG-13D1L19W** - Trimless LED MLS Housing; 3 Modules; Standard Driver, 120V, 1900 Lumens per module, White finish*

TRIMLESS LED DEDICATED MLS **MODULE** *Requires housing, sold seperately*

| SERIES	FACE PLATE	BEAM SPREAD	COLOR TEMP	FINISH
NMRT-	**652TL** Trimless	**Blank** 40º **S** 15º Spot	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	**BK** Black **WH** White

*Example: **NMRT-652TL35WH** - 1900 Lumen Module, 40º Beamspread, 3500K, White Finish*
(Specify a quantity of 3 to complete above 3 light module housing)

H

L

W

DIMENSIONS:

Configuration	1 Lamp	2 Lamp	3 Lamp
Width	6-1/4"	6-1/4"	6-1/4"
Length	6-1/4"	12-1/4"	18-1/2"
Length w/ Adj. Bracket	9-3/4"	15"	21"
Height	9-3/4"	9-3/4"	9-3/4"
Cut-out	6-1/4" x 6-1/4"	12-1/4" x 6-1/4"	18-1/2" x 6-1/4"

NSpec expands its line of MLS fixtures to now include Trimless LED dedicated adjustable lighting modules. Available in 1 to 3 light linear configurations, the MLS LED fixture offers 1900 lumen output in 27K, 30K, 35K, and 40K temperatures per opening. The MLS face plate is regressed to maintain a clean ceiling appearance. Trim finishes are white or black. The units are completely serviceable from below and can be specified in either 120V or 277V. They can be wired as a single complete unit or as 2-3 individually controlled or dimmed modules. The NEW MLS LEDs compliment the current MLS Low Voltage, CMH and Incandescent PAR series.

FEATURES:

· 1900 Lumens

· 90+ CRI

· 2700K, 3000K, 3500K, and 4000K

· Dimmable

· Independently adjustable at every opening

· Fixtures adjustable to 40° with 350° rotation

· Three configurations: one-light square, two and three-light linear

· Lower installation and maintenance costs

· Architecturally appealing trimless look

· Finishes include White and Black

· 5-year limited warranty

TRIMLESS ACCESSORIES
DEDICATED LED TRIMLESS
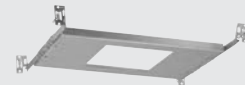
New Construction Frame-Ins

NMRTL-F1 1 Light frame for Trimless MLS

NMRTL-F2 2 Light frame for Trimless MLS

NMRTL-F3 3 Light frame for Trimless MLS

Flange Kit (installations where trimless appearance is not needed or possible.)

NMRTL-1FK (B/W) 1 Light Flange Kit for for Trimless MLS (Black or White finish)

NMRTL-2FK (B/W) 2 Light Flange Kit for for Trimless MLS (Black or White finish)

NMRTL-3FK (B/W) 3 Light Flange Kit for for Trimless MLS (Black or White finish)

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TRIMLESS MULTIPLE LIGHTING SYSTEM
LED COMPATIBLE LINE VOLTAGE 1-3 ADJUSTABLE

TRIMLESS LINE VOLTAGE MULTIPLE **HOUSING** *Requires Lamp Holder, sold seperately*

SERIES	LAMPS	BALLAST	VOLTAGE	LAMP TYPE	MAX WATTAGE		FINISH
NMRTLI-1	**1** One	**N** None	**1** 120V	**0** PAR30	**75** 75W	**20** 20W	**B** Black
	2 Two				**50** 50W	**15** 15W	**W** White
	3 Three				**25** 25W	**10** 10W	

*Example: **NMRI-12N1075B** - Incandescent Linear, 2 Modules 120V Input; 75W PAR30, Black Finish*

* Custom wattage labeling available by factory. NMRI-12N1030 - Line voltage, 1 Row, 2 Lamp, 120V, 15 watt max per socket

TRIMLESS PAR 30 **LAMP HOLDER** *Requires Housing, sold seperately*

SERIES	FACE FLATE	FINISH	LED LAMP INCLUDED
NMRT-	**652TL** Trimless	**BLK** Black	**(Blank)** No Lamp
		WH White	**EXX** see chart at right
			AXX see chart at right

*Example: **NMRT-652TLBLK** - Single PAR30 Lamp Holder, Black Finish.*
(Specify a quantity of 2 to complete above 2 light housing)

COMAPATIBLE LED LAMPS
LINE VOLTAGE MLS

LED PAR30 Short Neck

E30 LED 12W 2700K PAR30 740 Lumens, 20°

E31 LED 12W 3000K PAR30 750 Lumens, 20°

E32 LED 12W 2700K PAR30 740 Lumens, 35°
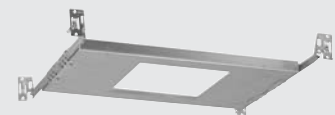
E33 LED 12W 3000K PAR30 750 Lumens, 35°

LED PAR30 Long Neck

A36 LED 13W 2700K PAR30 680 Lumens, 40°

A37 LED 13W 3000K PAR30 700 Lumens, 40°

TRIMLESS ACCESSORIES
LINE VOLTAGE MLS

New Construction Frame-Ins

NMRTL-F1 1 Light frame for Trimless MLS

NMRTL-F2 2 Light frame for Trimless MLS

NMRTL-F3 3 Light frame for Trimless MLS

Flange Kit (installations where trimless appearance is not needed or possible.)
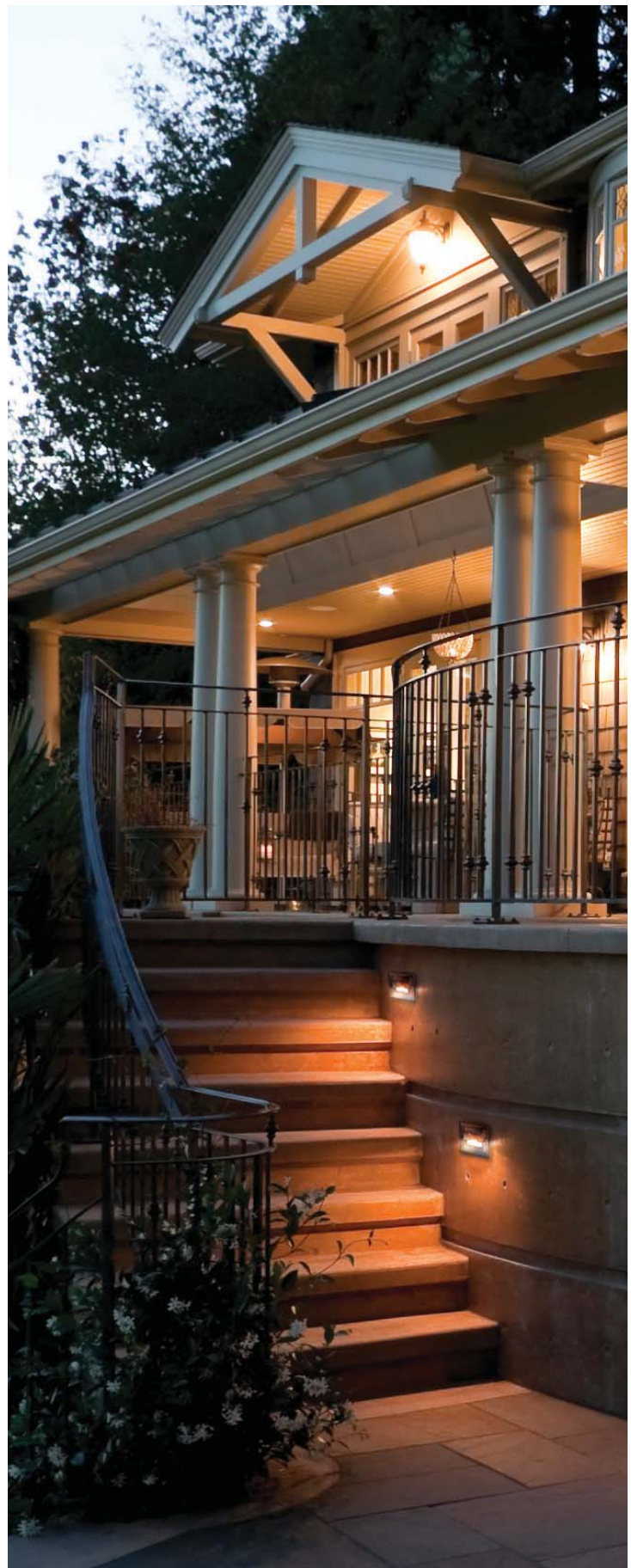
NMRTL-1FK (B/W) 1 Light Flange Kit for for Trimless MLS (Black or White finish)

NMRTL-2FK (B/W) 2 Light Flange Kit for for Trimless MLS (Black or White finish)

NMRTL-3FK (B/W) 3 Light Flange Kit for for Trimless MLS (Black or White finish)

Nora Lighting's family of Line Voltage MLS fixtures can be used in residential, commercial and retail applications. Nora's MLS fixtures allow a single ceiling opening to have 1 to 3 independently adjustable trims. The housings can be installed in drywall, plaster, and suspended ceilings.

LAMP HOLDER: Steel shell porcelain socket. Medium screw-in base. Adjustable Socket accepts short neck and long neck PAR Lamps

LAMP TYPES:
75W* PAR30 max   150W* PAR38 max

WIRING: Each unit has a wiring channel with leads from each socket, there by allowing independent switching or dimming. (Additonal switch legs are required).

CEILING THICKNESS: Accepts 1" maximum ceiling thickness.

INSTALLATION: Universal brackets accepts C-Channel or flat bar hangers (ordered separately), or simple rigid 1/2" steel conduit for tie-down to ceiling grids.

MINIMUM CLEARANCE: Requires a minimum clearance of 3" from thermal insulation and 1/2" from any adjacent building components.

HOUSING: Heavy gauge post painted steel. Vented on top for cool operation. Transformer(s) may be accessed from below.

KNOCKOUTS: Six 3/4" knockouts included - 2 each on 3 sides.
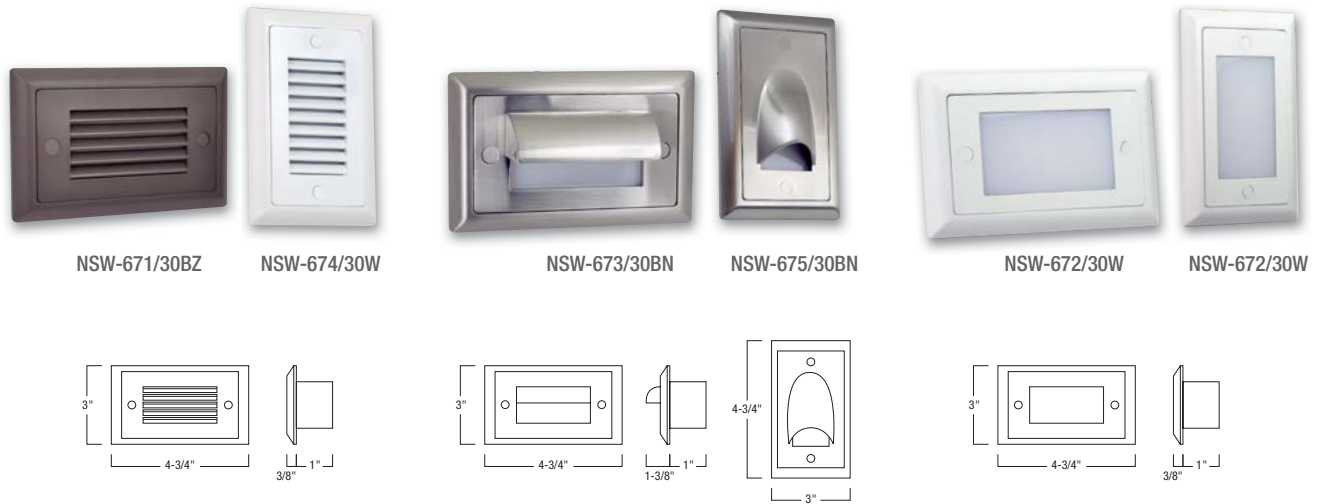
LISTING:
cULus Damp Location

LED Step Lighting

Nora step lights create a safe path of light or warn of elevation change in residential and commercial applications. The completely recessed fixtures blend with any architectural design. The LED step lights are maintenance free and available with lensed and louvered faces rated for wet label applications. Nora step lights offer solutions for pathway and stair safety lighting in patio, deck, hospital, hotel, school, airport, and residential applications.

NSW-671/30BZ   NSW-674/30W   NSW-673/30BN   NSW-675/30BN   NSW-672/30W   NSW-672/30W

MIA DIE-CAST ALUMINUM LED MINI STEP LIGHTS

FRAME TYPE	FINISHES	OPTIONS
WET **NSW-671/30** Horizontal Louver	**BN** Brushed Nickel	Can be special ordered in 277V or with blue or amber LEDs.
WET **NSW-672/30** Horizontal or Vertical Lensed	**BZ** Bronze	Contact factory.
WET **NSW-673/30** Horizontal Shroud	**W** White	
WET **NSW-674/30** Vertical Louver		
WET **NSW-675/30** Vertical Shroud		

*Example: **NSW-671/30W** - Mia die-cast mini LED step light with horizontal louver, white finish*

Nora's New Mia LED Step Lights with Die-Cast face plates use the latest in technology in solid state lighting. The step lights include an integrated driver and twelve LEDs offer a total load of 1.5W. Mia Step Lights are available with louvered, lensed, or shroud face plates and can be easily installed in a standard single gang switch box.

ELECTRICAL:
Voltage: 120VAC
Correlated Color Temperature: 3000K
Power Consumption: 1.5 Watts
Beam Angle: 110˚
Life Expectancy: 50,000 Hours
Driver: 120V AC Integrated Non-Dimmable

LED SOURCE: Twelve LEDs offer a total load of 1.5W. Optional Red & Amber LEDs available. Consult factory.

INSTALLATION: Mounts in standard single gang box (by others). Includes Stainless Steel screws and and decorative matching screw caps for mounting. IP65 rated when used with watertight junction box and gasket.

CONSTRUCTION: Die cast aluminum face plates mounts to a heavy duty sealed polycarbonate LED Module.

RATED LIFE: 50,000 Hours at 70% lumen maintenance

FACE PLATES: Available in horizontal or vertical shroud or louver. Lensed face plate can be mounted vertically or horizontally.

APPLICATIONS: Hallways, entrances, stairsways, wall bases, or any application requiring a low profile, recessed fixture providing safe illumination in indoor or outdoor dark areas.

FINISHES: Brushed Nickel, Bronze, and White

LISTING:
cULus Listed for Wet Location
IP65 Rated (when used with watertight junction box and gasket)

LED STEP LIGHTS
LED MINI STEP LIGHT OPTIONAL PHOTOCELL

NSW-661/W   NSW-661PC/W   NSW-662PC/BN   NSW-662/W

1-1/2"   2-3/4"   1-7/8"   1-1/8"   2-3/4"
3-5/8"   4-1/2"   4-1/2"

LED MINI STEP LIGHTS

FRAME TYPE	FINISHES
NSW-661 Louver Face Plate (includes Horizontal and Vertical)	**/BN** Brushed Nickel
NSW-661PC Louver Face Plate with Photocell (includes Horizontal and Vertical)	**/P** Primer
NSW-662 Lensed Face Plate	**/W** White
NSW-662PC Lensed Face Plate with Photocell	

*Example: **NSW-661PC/BN** - Mini LED Step Light with Photocell, Louver, Brushed Nickel finish*

Nora's Mini LED Step Lights use the latest technology in solid state lighting. The energy saving photocell option allows the step light to turn on in the dark and off in the morning or at presence of light. Mini Step Lights are available with louvered or lensed face and can be easily installed in a standard single gang switch box. Louvered unit includes both a horizontal and vertical louver.

ELECTRICAL:
Voltage: 120VAC, 50/60Hz
CCT: 3000K
Power Consumption:
    Standard: 1.44 Watts
    With Photocell: 1.08 Watts
Life Expectancy: 30,000 Hours
Driver: 120V AC Integrated

LED Source: Twelve LEDs offer a total load of 1.44W (standard) or Nine LEDs with a total load of 1.08W (with Photocell), 3000K

INSTALLATION: Mounts in standard single gang box (by others).

RATED LIFE: 30,000 hours at 70% lumen maintenance

OPTIONAL PHOTOCELL: Photocell sensor comes pre-installed in step light's face. The energy saving dusk to dawn feature turns the LEDs on in the dark and off in the morning or the presence of light.

LENSED FACE PLATE: Lensed plates include a tempered glass face and can be mounted horizontally or vertically.

LOUVERED FACE PLATE: Louvered units include both a horizontal and vertical louver to be mounted horizontally or vertically.

APPLICATIONS: Hallways, entrances, stairways, wall bases, or any application requiring a low profile, recessed fixture providing safe illumination in indoor dark areas.
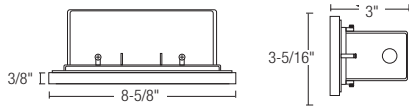
FINISHES: Brushed Nickel, Primer (ready to paint), and White

LISTING:
cULus Listed for Wet Location

NORA | NSPEC®

LED STEP LIGHTS
LED BRICK STEP LIGHTS

3"
3-5/16"
3/8"
8-5/8"

NSW-851/32W
shown with NSW-800

NSW-852/32BN
shown with NSW-800

NSW-853/32BZ
shown with NSW-800

Nora's new LED Brick Light can be used indoors or outdoors to efficiently illuminate a change in elevation, provide a path of light, light a staircase or act as a safety night light. The architectural louvered and shroud die-cast aluminum face plate creates a beautiful non-glare source of LED light to guide the way.

FEATURES:

· 24 LEDs for even illumination
· 4W total consumption
· 2925 Kelvin temperature
· Die-cast aluminum face plates
· Integrated, embedded driver
· 120V
· cULus Listed for Wet Location / IP65

LED BRICK DIE-CAST ALUMINUM LED MINI STEP LIGHTS

FACE PLATE *each face includes LED driver & platform and requires an NSW-800 housing, ordered seperately*	FINISHES
NSW-851/32 Louver Face Plate with LED Driver and Platform	**/BN** Brushed Nickel
NSW-852/32 Lensed Face Plate with LED Driver and Platform	**/BZ** Bronze
NSW-853/32 Shroud Face Plate with LED Driver and Platform	**/W** White

NSW-800 Wet Label housing *(Required for each face plate, ordered separately)*
NRA-6301 24-1/2" Adjustable hanger bar kit *(Set of 2; includes housing bracket)*

*Example: **NSW-852/32/W + NSW-800** - LED Brick Light, Lensed Face Plate, White finish and Housing*

LED STEP LIGHTS

LED STEP LIGHTS

FRAME TYPE

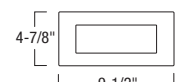**NSI-601** Louver Face Plate, White
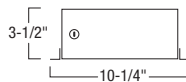**NSI-602** Frosted Lens Face Plate, White

*Example: **NSI-601** - LED Step Light, White finish*

NSI-601

3-1/2"
10-1/4"
4-7/8"
9-1/2"

NSI-602

3-1/2"
10-1/4"
4-7/8"
9-1/2"
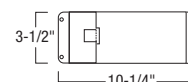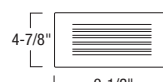
Bright, energy efficienct LED light sources provide a 30,000 hour life and are maintenance free. For outdoor applications, Nora has added both a louver lensed face and tempered glass face with gaskets that are UL Wet Location listed. The light source is shielded for excellent glare control.

ELECTRICAL:
Voltage: 120VAC, 50/60Hz
Power Consumption: 2 Watts
Life Expectancy: 30,000 Hours
Driver: 120V AC Integrated

LED SOURCE: 18 LEDs offer a total load of 2W

RATED LIFE: 30,000 Hours at 70% lumen maintenance

HOUSING: Sturdy galvanized steel construction, white power coated housing. Side brackets for mounting to dry wall. Driver has separate compartment.

INSTALLATION: Bar hanger brackets accept flat bar hangers for installing to joist or stud constructions (Ordered separately). Two pre-held mounting plates for vertical walls.

MINIMUM CLEARANCE: Non-IC fixture requires a minimum clearance of 3" from thermal insulation and 1/2" from adjacent building components.

SURFACE THICKNESS: Step Lights accept 5/8" standard drywall thickness.

JUNCTION BOX: Prewired junction box contains three 1/2" knockouts for an easy power feed.

APPLICATIONS: Hallways, entrances, stairsways, wall bases, outdoors or any application requiring a low profile, recessed fixture providing safe illumination in indoor dark areas.

LISTING:
cULus Wet Location
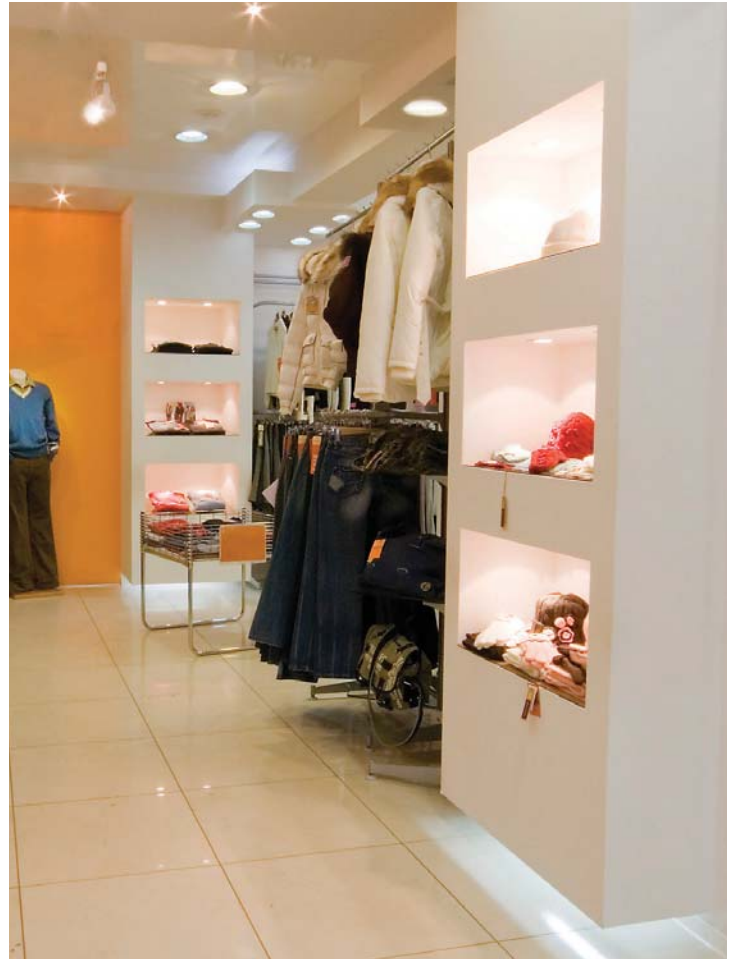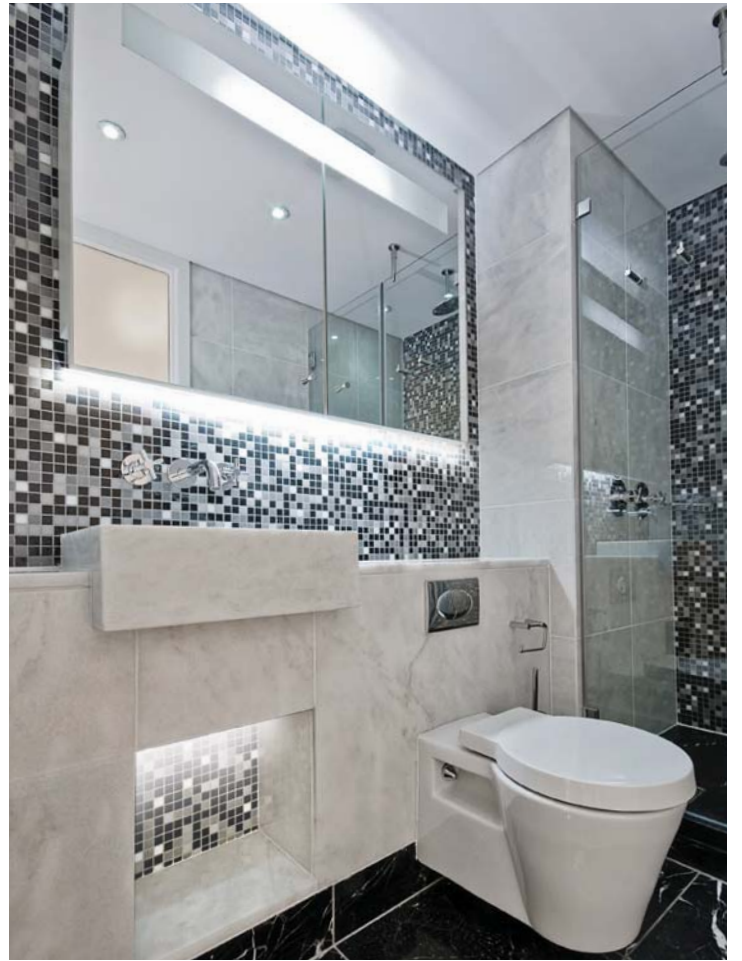
LED Specialty Lighting

LINEAR · UNDER CABINET · ACCENT · NICHE

Nora's family of Specialty Lighting products for linear, accent, or discrete general lighting is limited in application only by the lighting designer's imagination. These fixtures are compact in design and meet various energy requirements while achieving desired lighting effects. Nora's specialty lighting can be specified in a variety of applications including, under cabinet, niche, display, cabinet, shelf, closet, furniture, cove, under bar top, toe-kick or other applications where drama and accent lighting are used to define a space. Linear applications are solved with LED Silk SBC Lightbar, LED LEDUR Undercabinet, LED Bravo Frost Linear, LED Tape Light, and LED Puck Lights. Nora's LED Specialty Lighting is an excellent choice for today's green energy-efficient Environment.

LED SPECIALTY LIGHTING OVERVIEW

SILK SBC LED LIGHTBAR
24V High-output extruded aluminum low profile linear LED without diode image.

LED LEDUR
120V LED Undercabinet

LED BRAVO FROST
120V Linear

LED STANDARD TAPE LIGHT
Flexible, wet label, damp label and side-lit tape available in 12V or 24V and six light output colors. 70 to 100 Lumens per foot, and 90+ CRI option

LED HY-BRITE TAPE LIGHT
24V Flexible Damp label tape. 200+ Lumens per foot, and 90+ CRI option

LED HIGH OUTPUT TAPE LIGHT
24V Flexible, damp label tape producing over 350 lumens per foot, and 90+ CRI option

LED RGB TAPE LIGHT
Flexible, wet label tape available in 12V or 24V and can change color at the press of a button

LED RGBW TAPE LIGHT
Flexible damp label 24V high-output RGB diode with high-output 30K diode.

LED CCT COLOR TUNING TAPE LIGHT
Flexible damp label 24V Kelvin adjustable tape

LED CONTINUOUS ROLL TAPE LIGHT
Flexible damp label 24V tape in 100 ft. continuos rolls. Available in Standard, Hy-Brite and High Output types.

LED PUCK LIGHT
12V High performance, low energy, low profile, discrete light source

LED FLEX LIGHT
12V linear LED connected modules

SILK SBC LED LIGHTBARS
24V LED LIGHTBAR 90+

1/2"

3/4"

90°

Mount with angled or adjustable brackets for flexibility.

6" to 48"

SILK SBC LED LIGHTBAR

CATALOG NO.	LENGTH	LIGHT SOURCE	COLOR TEMP	FINISH
NULB-8	**06** 6" **12** 12" **24** 24" **36** 36" **48** 48"	LED9	**30** 3000K **42** 4200K	**A** Aluminum **B** Black *(special order)*

*Example: **NUTB-824LED930A**- 24" Silk SBC Lightbar, 90+CRI, 3000K Aluminum finish*

The 24V Silk SBC LED Lightbar produces an incredible 350+ lumens per foot while consuming only 5W at 90+ CRI. The Silk SBC LED Lightbar eliminates the diode image to provide uniform reflectance of light without the hot spots generated by direct view mounted LEDs. The Solid Bus Connectors (SBC) provide a rigid connection between bars, while the flush mount adjustable mounting brackets allow complete zero to 90-degree adjustment. Silk features an ultra low-profile and is available in five lengths. Silk SBC can be used in under cabinet, in cabinet, cove, display, and general commercial, retail and residential lighting applications.

HOUSING: Solid aluminum extrusion with flush mounted end caps. Available in five lengths.

FINISH: Natural Aluminum or Black (special order)

MOUNTING: Each Lightbar includes flat and adjustable mounting clips allowing aiming angles from 0˚ to 180˚.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Hardwire Dimmable Class II Drivers. Drivers sold separately.

ELECTRICAL:

Power: 24V DC input / 5W per foot
Light Source: 48 LEDs per foot
Operating Temperature: -25°C to 60°C
Life Expectancy: 30,000 Hours of rated lamp life
Max Run Length: 20' at power rating 96W max for 4A max single circuit

INCLUDED WITH EVERY LIGHTBAR:

· (1) End to End Connector (NAL-800)
· (2-3) Flat Mounting Clips (NAL-801)
· (2-3) 0˚-180˚ Adjustable Mounting Clips (NAL-809)
6", 12", 24" Silk Lightbars include two clips;
36" and 48" Silk Lightbars include three clips

LISTINGS:

cULus Listed for Dry Location
ENERGY STAR
Title 24 Compliant
California Energy Commission Certified
5-Year Limited Warranty
Closet Rated

SILK SBC LED LIGHTBAR
ACCESSORIES

Mounting Clip

NAL-801   Flat Mount

NAL-809 0-90˚+ Adj. Mount

Flat and 0-90˚ Adjustable
included with each lightbar.
Set of two.

Mounting Clip

NAL-880 0-180˚ Adj. Mount

Interlink SBC Solid Bus
Connector

NAL-800

Included with each lightbar

Flex SBC Interconnection Cable

NAL-802W	2"
NAL-806W	6"
NAL-812W	12"
NAL-824W	24"
NAL-872W	72"

SBC Side Power Line Cable

NAL-807W	12"
NAL-807/72W	72"

White finish

SBC Power Line Cable with
Terminal Block

NAL-812TBW	12"
NAL-872TBW	72"

14AWG-22AWG

SBC Power Line Cable

NAL-810/12W	12"
NAL-810/72W	72"

Open Wire, White finish

SBC Side Power Line Cable

NAL-811/12W	12"
NAL-811/72W	72"

Open Wire, White finish

SBC Power Line Cable

NAL-808/24W	12"
NAL-808/72W	72"

White finish

2' Wire Raceway

NATL-422

Field-cuttable plastic. Includes
wire channel with double faced
tape and cover. Black or White.

In-Line Motion Sensor

NAL-830

L: 2.5", W: 0.75", H: 0.75"
12' Max activation distance; 20
second auto off; 120˚ detection
zone; Max Load 4A

SILK Light Bar Touch
Dimmer

NAL-855

Tap once for 100%, twice for
75%, third time for 50%, fourth
for 25% and fifth for off. No
power failure memory.

Touch Dimmer

NATL-518

72W max., no power fail
memory,
touch on/off and hold to dim.

DC Plug and Play Motion
Sensor

NAL-856W

12' Max activation distance; 20
second auto off; 120˚ detection
zone; Max Load 4A.
Compatible with Nora LED
Tape Light, LED Lightbar and
LED Puck.

SWITCHEX® All-in-One
LED Driver and Dimmer

NATL-SWEX100/24
 24V 100W

Converts 120 VAC to low
voltage DC in a standard
electrical box. Includes face
plate.

NORA | NSPEC®

24V Direct Plug-In LED Drivers

NATL-524	24V 24W
NATL-545	24V 45W
NATL-596	24V 96W

Allows direct connection to a wall outlet with 6' cord and plug (NATL-524 and 545) or 5' cord and plug and 44" power line connector (NATL-596). Requires power line interconnection cable. Non-Dimmable.

24V Class II Hardwire Electronic LED Driver

NATL-530HW	24V 30W
NATL-560HW	24V 60W

Allows hardwiring using NUSP-JBox. Can be converted into direct plug-in driver using NRA-6035. Requires power line interconnection cable.

24V Class II Hardwire Electronic LED Driver

NATL-5060HW	24V 60W
NATL-5100HW	24V 100W

Can be used with Nora LED Tape, Light Bar and Puck. Allows hardwiring. Includes 10' power line connector (NALTL-10). Non-dimmable.

NATL-5096-24-HWD10
24V 96W Electronic 0-10V Dimmable driver. Includes NALTL-10

Dimmable 24V Class II Remote Hardwire Magnetic Drivers

NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W

With integral regulator for constant current and voltage. Includes 10' Power Line Connector (30' ordered separately).

Flexible Extension Cord for NATL-530HW or NATL-560HW

NRA-125/6	6"
NRA-125/12	12"
NRA-125/18	18"
NRA-125/72	72"

Used to extend length between NUSP-JBox and NATL-530HW or NATL-560HW. Can be joined together to create custom lengths.

Cord and Plug for NATL-530HW or NATL-560HW

NRA-6035W/6	6'
NRA-6035W/10	10'

Used to convert NATL-530HW or NATL-560HW into a direct plug-in driver.

Replacement Power Line Connector

NALTL-10	10' 24V
NALTL-30	30' 24V

For use with NMT Series and NATL-5100HW. Replaces included 10' lead wire, to allow for 30' or less length between Lightbar PLUS run and LED Driver.

NUSP-JBox

Junction Box for Hardwiring Required for hardwiring NATL-530HW or NATL-560HW. Can be used to feed to separate runs. Accepts Romex®.

Low Voltage Splice Box

NATL-415

Use to join Romex® low voltage lead to power line connector.
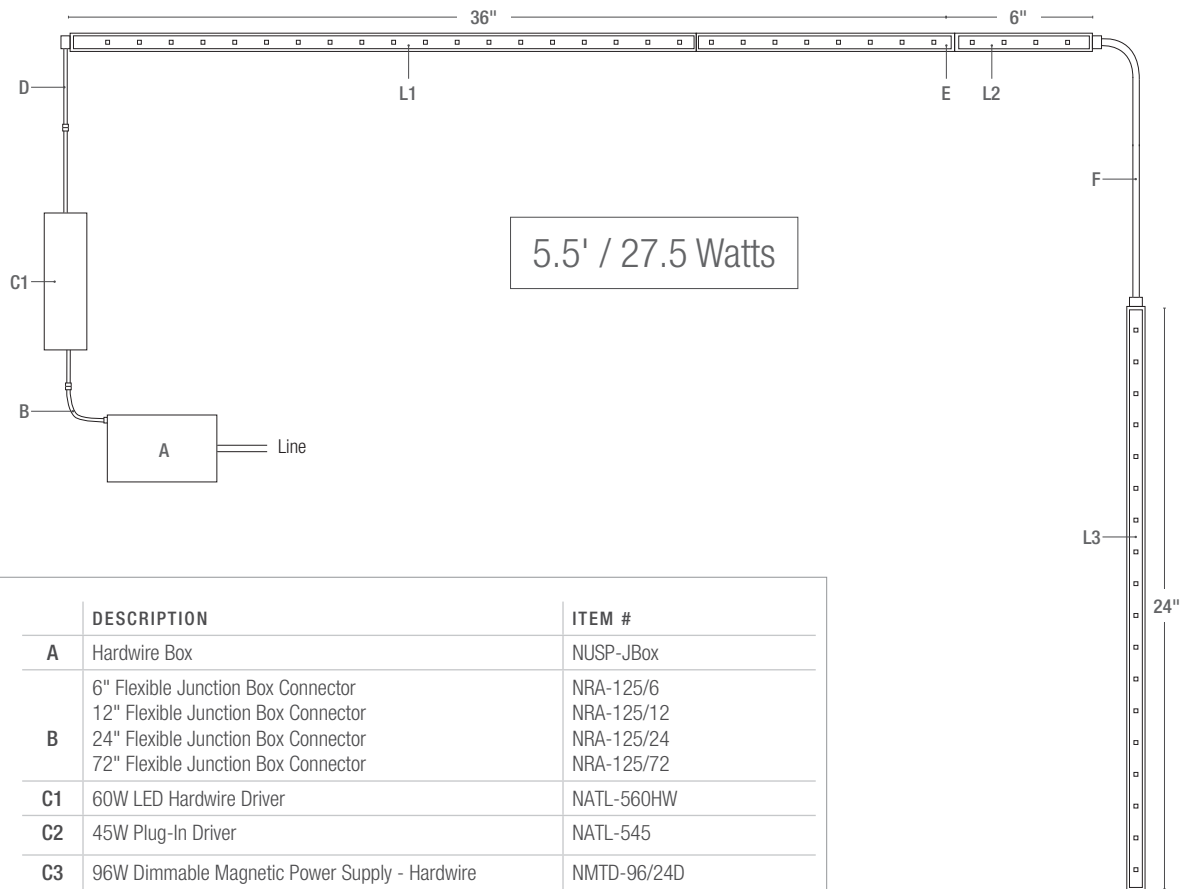

In-Wall Rated Wire

NATL-W16-2-250	16AWG 250'
NATL-W16-2-20	16AWG 20'

16 AWG low voltage Class II two-conductor, in-wall rated wire.
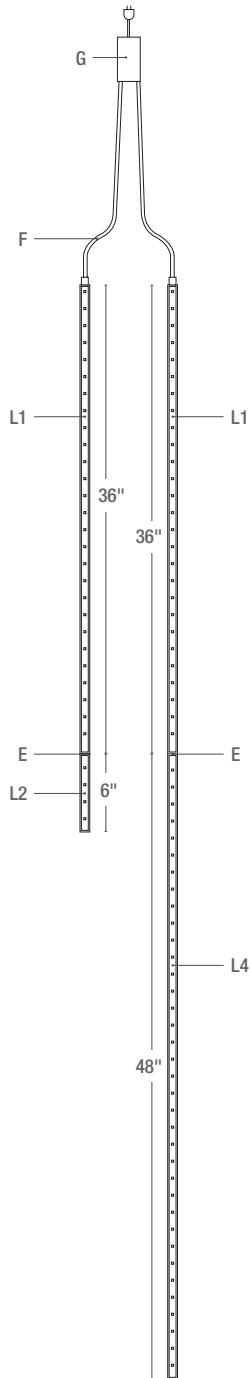
LED LIGHTBARS

SAMPLE LAYOUT SILK SBC LIGHTBAR

36"

6"

D

L1

E   L2

F

5.5' / 27.5 Watts

C1

L3

B

24"

A   Line

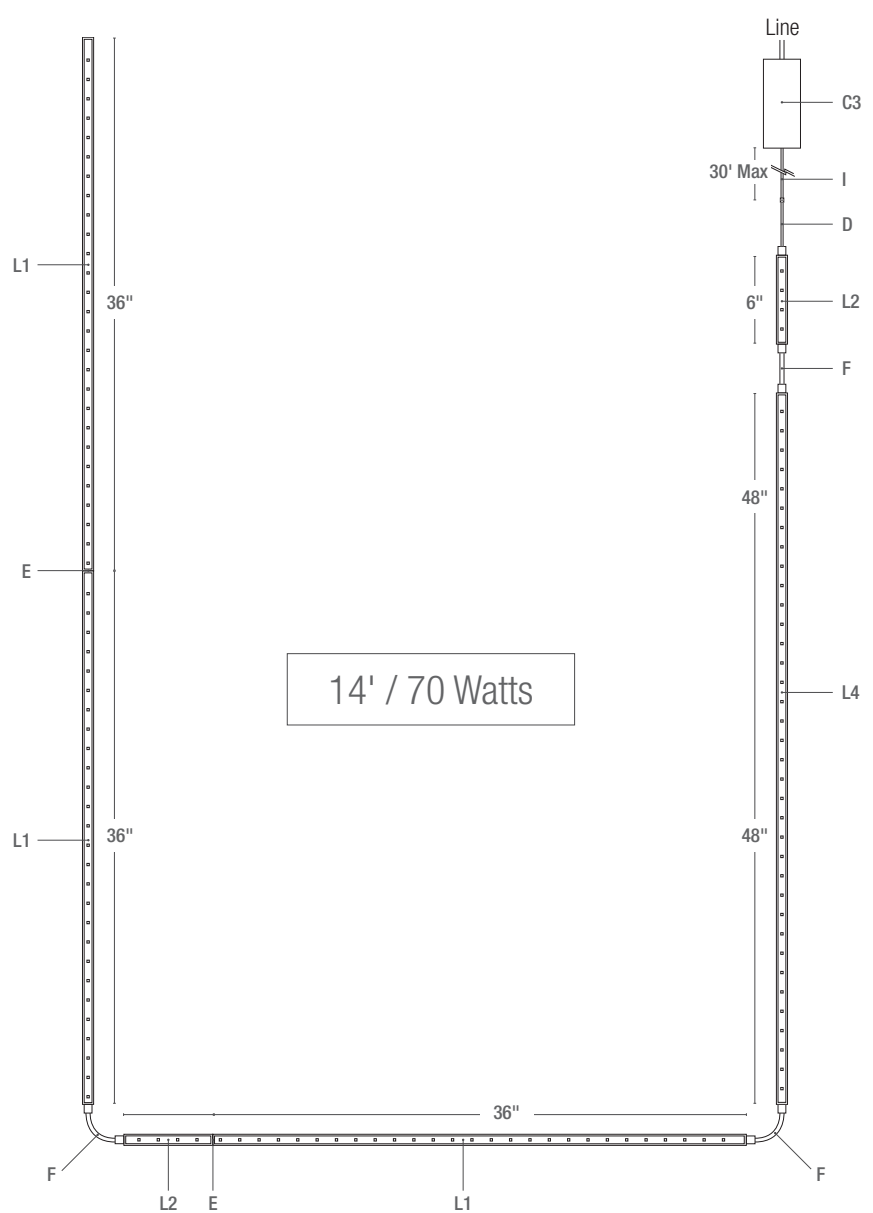|	DESCRIPTION	ITEM #
A	Hardwire Box	NUSP-JBox
B	6" Flexible Junction Box Connector 12" Flexible Junction Box Connector 24" Flexible Junction Box Connector 72" Flexible Junction Box Connector	NRA-125/6 NRA-125/12 NRA-125/24 NRA-125/72
C1	60W LED Hardwire Driver	NATL-560HW
C2	45W Plug-In Driver	NATL-545
C3	96W Dimmable Magnetic Power Supply - Hardwire	NMTD-96/24D
D	90˚ Power Line Interconnector (12" Cable) 90˚ Power Line Interconnector (72" Cable) Straight Power Line Interconnector (24" Cable) Straight Power Line Interconnector (72" Cable) Straight Power Line Interconnector	NAL-807W NAL-807/72W NAL-808/24W NAL-808/72W NAL-810/72W
E	End-to-End Connector (included with each Lightbar)	NAL-800
F	2" Interconnection Cable 6" Interconnection Cable 12" Interconnection Cable 38" Interconnection Cable 58" Interconnection Cable	NAL-802W NAL-806W NAL-818W NAL-824W NAL-872W
G	60W Class II LED Driver	NATL-5060HW
I	10' Power Line Connector (included with NMT-60/24C2) 30' Power Line Connector	NALTL-10 NALTL-30
L1	36" LED Silk SBC Lightbar	NULB-836LED9(Kelvin)(Finish)
L2	6" LED Silk SBC Lightbar	NULB-806LED9(Kelvin)(Finish)
L3	24" LED Silk SBC Lightbar	NULB-824LED9(Kelvin)(Finish)
L4	48" LED Silk SBC Lightbar	NULB-848LED9(Kelvin)(Finish)

10.5' / 52.5 Watts

G

F

L1 — — L1

36"

36"

E — — E

L2 — 6"

L4

48"

L1

36"

E

14' / 70 Watts

L1

36"

36"

F

L2   E

L1

F

Line

C3

30' Max — I

D

6" — L2

F

48"

L4

48"

F

LED UNDER CABINET
LEDUR LED 120V DIMMABLE INTEGRAL DRIVER

The LEDUR series of undercabinet lighting is the most simple to use LED undercabinet system. The LEDUR allows for easy retrofitting of existing Fluorescent, Incandescent, Halogen, or Xenon undercabinet lights. LEDUR's built in LED driver, captive mounting screws, and large knockout plate in the back makes LEDUR easy to install in retrofit or new construction applications. A heavily frosted lens diffuses the LED image and softens the light output. Available in five sizes, two finishes, and 2700K, 3000K and 4000K at 350 Lumens per foot and 90+ CRI. The New LEDUR LED Undercabinet is a designers choice for quality, energy efficient LED lighting.

8", 11", 18", 22", 32-3/16"

3-1/2"

1"

Captive Screws for easy mounting located at each end under removable cap

FEATURES:

· 120V Dimmable
· 350 Lumens per ft
· 7 Watts average per foot
· 2700K, 3000K and 4000K temperatures
· 90+ CRI
· Frosted Lens
· Built-in On/Off switch
· White or Bronze finishes
· Less than 1" in depth
· Self contained driver in each unit
· Each unit can be hardwired with Romex feed
· Each unit includes Romex™ Connector
· Easy to mount with captive screws
· Linkable up to 400 Watts

LEDUR LED UNDER CABINET LIGHT

CATALOG NO.	LENGTH	WATTAGE	COLOR TEMP	FINISH
NUD-8808(temp)(finish)	8"	4.5W	**/27** 24700K	**BZ** Bronze
NUD-8811(temp)(finish)	11"	7.7W	**/30** 3000K	**WH** White
NUD-8818(temp)(finish)	18"	11.0W	**/40** 4000K	
NUD-8822(temp)(finish)	22"	12.0W	*4000K available in White finish only*	
NUD-8832(temp)(finish)	32"	16.0W		

*Example: **NUD-8811/30WH**- 11" LEDUR Under Cabinet Light, Warm 3000K, White finish*

ACCESSORIES LEDUR

NUD Series J-Box

NUA-802   BZ or W

Hardwire box used to power NUD Series using NUA-806/812/824/872 Jumper Cables and NUA-804 Hardwire Connector. Include on/off switch.
L: 4" W: 1-3/4" H: 1"
Note: LEDUR NUD-88 Series can be direct wired into fixture.

NUD Series Hardwire Connector

NUA-804   B or W

3-Wire grounded connector/cable used to hardwire NUD Series LED fixture to NUA-803.

NUD Series 72" Cord & Plug

NUA-805   B or W

Converts NUD Series from hardwire to direct plug-in units using connector pins on either end of NUD unit. Grounded plug.

Jumper Cable

NUA-806	6"	B or W
NUA-812	12"	B or W
NUA-824	24"	B or W
NUA-872	72"	B or W

Used to join NUD Series LED fixtures together or to an NUA-803.

End to End Connector

NUA-803

Use to join NUD-88 series seamlessly together. 3-Wire grounded connector (one included with fixture).

NORA | *NSPEC*

LED LINEAR LIGHT
120V LED BRAVO FROST

Nora Lighting's low-profile, Title 24 compliant fixtures provide excellent and even illumination on all surfaces. At only 7 watts per foot, Bravo FROST produces 500 lumens at a crisp sharp 95+ CRI. Each Bravo Frost contains it own driver allowing a 120V feed and longer single runs than low voltage systems. It is one of the most energy efficient products in the market. LED technology eliminates forward heat from the fixture, also no UV or infrared rays to harm artwork or heat sensitive foods.

FEATURES:

· Architectural extruded aluminum construction
· Symmetrical internal reflectors produce broad even light
· Frosted lens eliminates LED diode image
· 120V linear system
· 7W produces 500 lumens per foot
· 90+ CRI; R9 70+
· 2700K, 3000K & 4000K
· Dimmable
· Linkable up to 400 Watts fixtures (about 50ft.)
· Less than 1" depth
· Bronze and White Finishes
· Self contained electronic driver in each unit
· 0º to 90º adjustable mounting brackets included
· Title 24 / JA8 - 2016 Compliant
· ENERGY STAR® Listed
· cULus Listed
· 5-Year Limited Warranty

1-1/8"

8", 12", 18", 24", 32"   7/8"
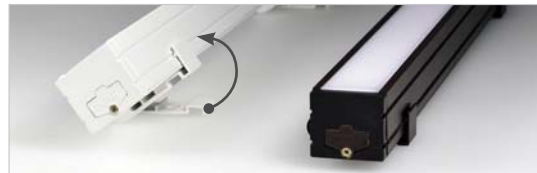
90˚ Adjustability with included mounting bracket

BRAVO **PLUS** LED LINEAR LIGHT

CATALOG NO.	LENGTH	WATTAGE / LUMENS	COLOR TEMP	FINISH
NUD-6812(temp)(finish)	12"	7W / 520Lm	**/27** 2700K	**BZ** Bronze
NUD-6818(temp)(finish)	18"	10W / 757Lm	**/30** 3000K	**W** White
NUD-6824(temp)(finish)	24"	13W / 978Lm	**/40*** 4000K	
NUD-6832(temp)(finish)	32"	16W / 1212Lm		

*Example: **NUD-4812/30W**- 12" Bravo Plus Linear Light, Warm 3000K, White finish*

* 40K available in White finish only

BRAVO FROST ACCESSORIES

NUD Series J-Box

NUA-602   BZ or W

Hardwire box used to power NUD-68 Series using NUA-604 Jumper Cables and NUA-404 Hardwire Connector. Includes on/off switch.
L: 6-1/4" W: 3-5/8" H: 1"

NUD Series Hardwire Connector

NUA-604   B or W

3-Wire grounded connector/cable used to hardwire NUD-68 Series LED fixture to NUA-602 or J-Box.

NUD Series 72" Cord & Plug

NUA-605   B or W

Converts NUD-68 Series from hardwire to direct plug-in units using connector pins on either end of NUD unit. Grounded plug.

NUD Series Connectors

NUA-603	end to end	B or W
NUA-606	6"	B or W
NUA-612	12"	B or W
NUA-624	24"	B or W
NUA-672	72"	B or W

Used to join NUD-68 Series LED fixtures together or to an NUA-402 J-box.

NUD Series Adjustable Mounting Brackets

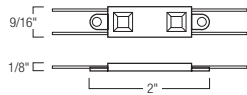**NUA-609**   set of 2

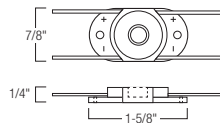Brackets adjust from 0˚ to 90˚. Two brackets are included with each Bravo Frost unit.
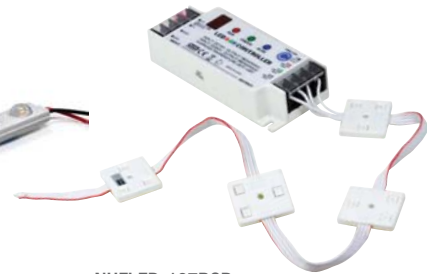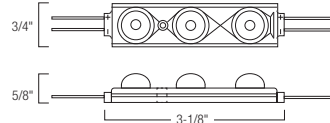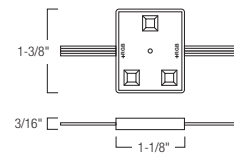
LED FLEX LIGHT
MODULE STRINGS 4 STYLES

NUFLED-105
0.5 W

NUFLED-115
1.5 W

NUFLED-110
1.0 Watt

NUFLED-107RGB
0.72 W

9/16"
1/8"
2"

7/8"
1/4"
1-5/8"

3/4"
5/8"
3-1/8"

1-3/8"
3/16"
1-1/8"

LED **FLEX LIGHT**

CATALOG NO.	WATTS	LUMENS	O.C.	MAX RUN	COLOR TEMP
NUFLED-105(color)	0.5	39	6"	80pc	**27** 2700K **30** 3000K **42** 4200K **50** 5000K **65** 6500K **G** Green **R** Red
NUFLED-110(color)	1.0	105	6"	45pc	
NUFLED-115(color)	1.5	129	5-3/8"	34pc	
NUFLED-107RGB	0.72	-	5-3/8"	70pc	RGB Color Changing

*Example: **NUFLED-115/50** - 12V DC 1.5W LED Flex Light, 129 Lumens, 5000K Module*

Standard pack consists of 50 modules. NUFLED series custom-cut is available. Each custom-cut incurs a termination assemble fee.

Nora's new long life, maintenance free, lower power consumption Flex-Light LED module strings are the perfect solution for back lighting or indirect lighting. The flexible strings can be installed using included double faced tape or screwed into place. The Flex-Light can be positioned to specifications of the job to evenly illuminate panels or architectural details. Excellent source to illuminate large sign letters, channel letter or lightbox.

FEATURES:

· 129 Lumens output 1.5W per module

· LED module strings allow flexibility

· Single color illumination or color changing RGB

· 120º beam angle

· No soldering

· Hardwire and Plug-In drivers

· Dimmable with dimmable power supply

· LED module strings come at specific On-Center (OC) spacing

· Easy to install with double faced tape or secure using screw holes provided in module

· 5 years limitted warranty

· cULus Recognized

NORA | NSPEC®

LED FLEX LIGHT
ACCESSORIES AND DRIVERS

12" Power Connector with Switch

NAFL-711B   Black
NAFL-711W   White

Powers Flex-Light from drivers that have RCA jack.

18" Power Connector

NAFL-709B   Black
NAFL-709W   White

Powers Flex-Light from drivers that have RCA jack.

Terminal Block

NDSA-2   Plastic, 10A
NDSA-4   Porcelain, 10A
NDSA-14   Porcelain, 30A

Used to splice two runs together.

Flexible Extension Cord

NRA-125/6   6" Cable
NRA-125/12   12" Cable
NRA-125/18   18" Cable
NRA-125/72   72" Cable

Use to extend length between NUSP-JBox and NAPK-530HW/12 or NAPK-560HW/12 can be joined to create custom lengths.

Flexible Power Cord

NRA-6035W/6   6' Cable
NRA-6035W/10   10' Cable

Use to convert NAPK-530HW/12 or NAPK-560HW/12 into a direct plug-in driver.

Power Line Connector

NAPK-10   10' Cable
NAPK-30   30' Cable

For use with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Electronic Class II 60W Hardwire Driver (non-dim)

NAFL-560HW   60W

Voltage: 12V DC

Elect. Class II Hardwired Driver

NAPK-530HW/12   30W
NAPK-560HW/12   60W

Voltage: 12V
Cable Length: 3-1/4"
Input Wire: 4"
Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Flex Light run.

Direct Plug-In El. Driver

NAPK-524/12   24W

Voltage: 12V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Flex Light run.

Direct Plug-In El. Driver

NAPK-550/12   50W

Voltage: 12V DC
Input Wire: 60"
Cord and Plug: 6 Feet
Requires: Power line interconnector cable to connect to Flex Light run.

Low Voltage Splice Box

NATL-415W

Finish: White
Use to join Romex® low voltage lead to low voltage power line connector or interconnector.

Junction Box for Hard Wiring

NUSP-JBox

For use with NAPK-530HW/12 or NAPK-560HW/12. Capable of feeding two separate runs. Accepts Romex®

12V Dimmable Class II Hardwire Magnetic Driver with Integral Regulator for Constant Current and Voltage

NMT-244/12C2D1   4x60W

Voltage: 12V DC
Includes: (4) 10' Power Line Connector (30' ordered separately)

NEW!

12V Dimmable Class II Remote Hardwire Magnetic Driver with Integral Regulator for Constant Current & Voltage

NMTD-40/12D*   40W
NMTD-60/12D*   60W

Voltage: 24V DC
Input Voltage: 120/277 DC
*Includes: (4) 10' Power Line Connector (30' ordered separately)

NARGB-716 12V Hand Held RemoteController

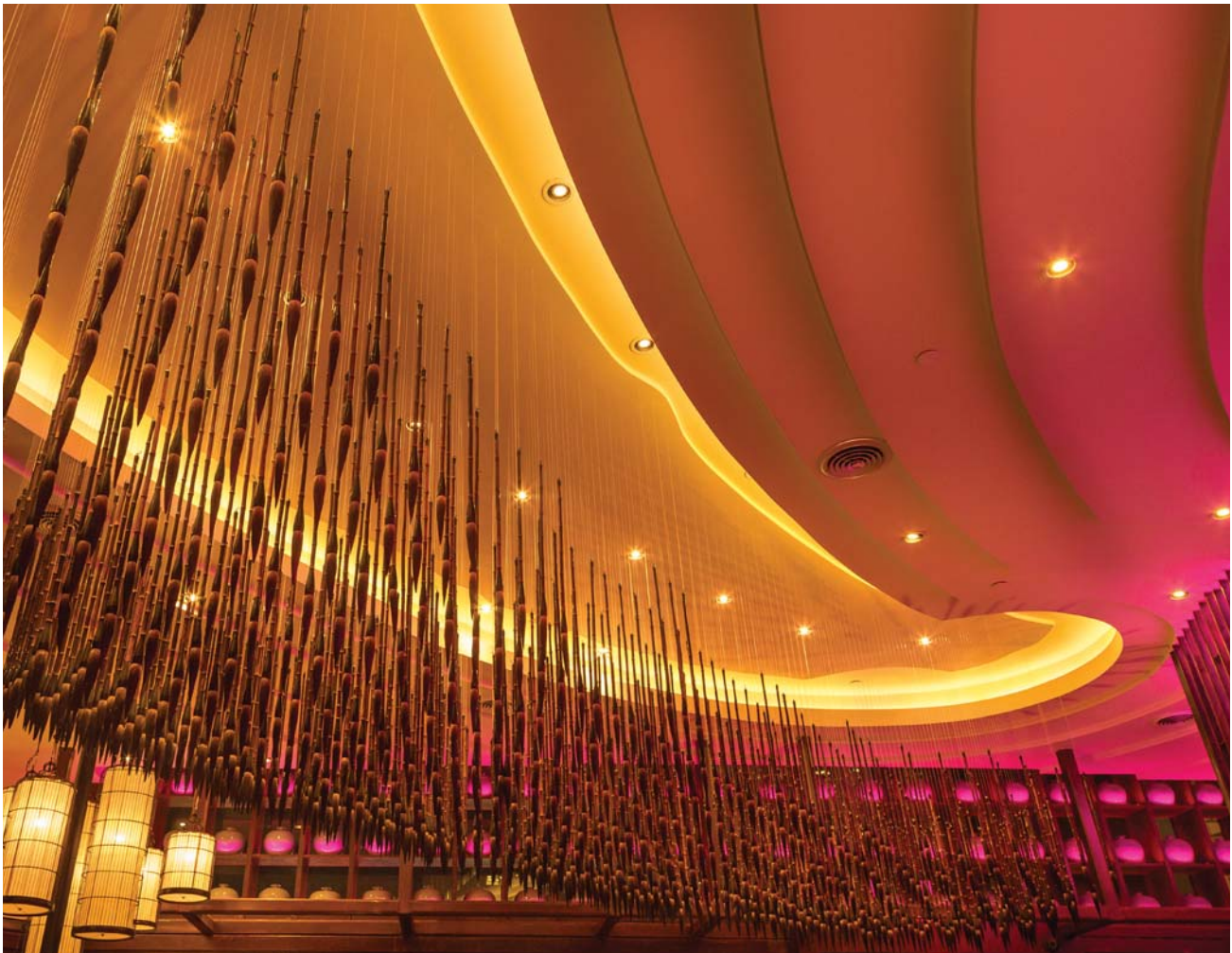**RGB Controller**

NARGB-765 12V Controller

360W Max. A controller is required for each RGB LED Flex Light run. Installs between the driver and the power line interconnector. The controller can be used to toggle between colors or changing modes.

LED Tape Light

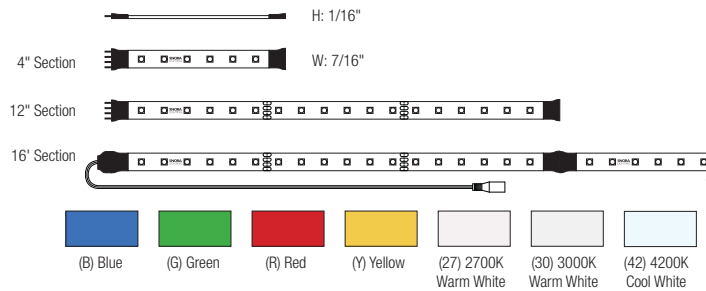## LIGHTING DESIGN ONLY LIMITED BY YOUR IMAGINATION

Nora Lighting offers one of the largest selections of LED tape light in the industry. The selection includes a wide variety of outputs and a large selection of installation accessories for large and small jobs. LED tape's small profile, even light distribution and low cost make it the specifier's and lighting designer's choice for lighting applications from A to Z . The Nora tape families are ideal solutions for:

· Coves	· Undercabinet	· Toe Kicks	· Back lighting
· Recessed niche lighting	· Furniture	· Shelf	· Signs
· Display Cabinets	· Stair rail	· Above cabinet	· Art work
· Outdoor Living Area	· Highlighting	· Outlining	

NORA | NSPEC®

LED TAPE LIGHT
12V AND 24V STANDARD WET LABEL

H: 1/16"

4" Section

W: 7/16"

12" Section

16' Section

| (B) Blue | (G) Green | (R) Red | (Y) Yellow | (27) 2700K Warm White | (30) 3000K Warm White | (42) 4200K Cool White |

FEATURES:

· 70 Lumens per foot with 3000K CCT

· 288 LEDs / 24W per roll; 18 LEDs / 1.5W per foot

· 12V or 24V DC single color illumination

· Available in 6 colors: Blue, Green, Red, Yellow, Cool White (4200K), Warm White (3000K)

· Separable every 12", easily disconnect and connect without soldering

· Field cuttable every 2" on 12V and 4" on 24V

· Maximum run: Electronic Driver (24V) 66' with 100W driver, (12V) 40' with 60W driver

· Easy to install with pre-applied 3M™ tape, clips or channel

· Dimmable with dimmable power supply

· Exceeds Title 24 high efficacy requirements

STANDARD WET LABEL LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LABEL	COLOR TEMP
NUTP4-W16LED(color)	16' Roll	White	12V	Wet*	**B** Blue
NUTP4-WLED(color)/12	12" Section	White	12V	Wet*	**G** Green
NUTP4-WLED(color)/4	4" Section	White	12V	Wet*	**R** Red
NUTP1-W16LED9(color)	16' Roll	White	24V	Wet*	**Y** Yellow(Amber)
NUTP1-WLED9(color)/12	12" Section	White	24V	Wet*	**27** 2700K
NUTP1-WLED9(color)/4	4" Section	White	24V	Wet*	**30** 3000K
					42 4200K
NUTP4-W16LED(color)PS	16" Roll Kit	White	12V	Wet*	**30** 3000K
					42 4200K
NUTP1-W16LED(color)PS	16" Roll Kit	White	24V	Wet*	**27** 2700K
					30 3000K
					42 4200K

*Example: **NUTP1-16LEDB** - 16' Roll 24V Standard Tape Light, Wet Location Listed, Blue Color*

16' Tape Rolls include sixteen 12" sections. Kit includes plug-in driver. 12" and 4" Tape sections contain male/female ends.
*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Wet Location applications.

Nora's very low profile, energy efficient LED tape is only 7/16" wide and 1/16" thick. Designed to cast no shadows, our flexible LED light boasts a desirable seamless glow. Installation is easy as each roll (16 feet) is separable every 12" and can also be cut every 4" (2" on 12V). Our durable tape is available in two styles, Wet label*, IP65 rated silicone encapsulated tape, and Damp label* IP44 non-encapsulated tape.

CONSTRUCTION: The tape is separable every 12", can be cut every 2" on 12V and 4" on 24V at marked intervals. Cutting does not effect circuit. Silicone encapsulated Wet Label* tape has pre-applied shrink wrap around connections to ensure wet location listing. Simply slice the clear shrink wrap at each 12" connection, and separate male-female connectors. This eliminates soldering when using partial rolls.

TAPE LIGHT KIT: Complete kit for basic 16' installation. Includes: (1) 16' Tape Light Roll, (15) Clear Acrylic Clips, (1) 9" Power Line Interconnector, and (1) LED Plug-In Driver.

MOUNTING: Each Tape Light roll comes with 15 clear acrylic clips and also comes with pre-applied 3M™ adhesive tape for simple installation. Plastic channel (NATL-420) sold separately, also available.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Dimmable Class II Drivers.

ELECTRICAL:
Power: 12V or 24V DC Input / 1.5 Watts Per Foot
Light Source: 18 LEDs per foot
Operating Temp.: -13˚ F to 140˚F (-25℃ to 60℃)
Life Expectancy: 50,000 Hours

Maximum Run Length: 64' using 24V Tape and 96W driver and 40' using 12V Tape and 60W Driver

INCLUDED WITH EVERY ROLL:
Each Tape Light Roll purchased includes a 9" power line connector [NATL-515 (12V) or NATL-509 (24V)], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of 12" sections.

LISTINGS:
Consult spec sheet for current T24 status
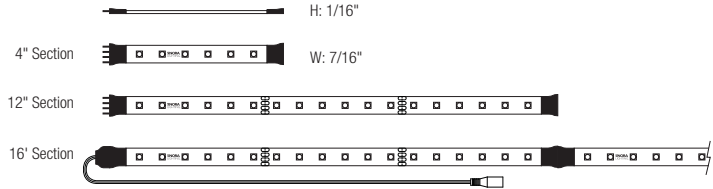cULus Listed for Wet Location (not submersible)
IP65 Rated

WARRANTY:
3 Year Limited Warranty

LED TAPE LIGHT
STANDARD DAMP LABEL 24V

H: 1/16"

4" Section

W: 7/16"

12" Section

16' Section

FEATURES:

· 70 Lumens per foot with 3000K CCT

· Available in 90+ CRI

· 288 LEDs / 24W per roll; 18 LEDs / 1.5W per foot

· 12V or 24V DC single color illumination

· Available in white background with three color outputs: Cool White (4200K), Warm White (3000K), Warm White (2700K)

· Separable every 12", easily disconnect and connect without soldering

· Field cuttable every 4"

· Maximum run:
Electronic Driver (24V) 66' with 100W driver

· Easy to install with pre-applied 3M™ tape, clips or channel

· Dimmable with dimmable power supply

· Exceeds Title 24 high efficacy requirements

STANDARD DAMP LABEL LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	90+ CRI	VOLT	LABEL	COLOR TEMP	
NUTP7-W16LED9(color)	16' Roll	White	Yes	24V	Damp*	**27** 2700K	
NUTP7-WLED9(color)/12	12" Section	White	Yes	24V	Damp*	**30** 3000K	
NUTP7-WLED9(color)/4	4" Section	White	Yes	24V	Damp*	**42** 4200K	
NUTP7-16WLED9(color)K	16" Roll Kit	White	Yes	24V	Damp*	**30** 3000K	
						42 4200K	

Example: **NUTP7-WLED27/4** *- 24V Standard Tape Light, 4" Section, Damp Location Listed, White Tape, 2700K*

16' Tape Rolls include sixteen 12" sections. Kit includes plug-in driver. 12" and 4" Tape sections contain male/female ends.
Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

Nora's very low profile, energy efficient LED tape is only 7/16" wide and 1/16" thick. Designed to cast no shadows, our flexible LED light boasts a desirable seamless glow. Installation is easy as each roll (16 feet) is separable every 12" and can also be cut every 4". Our durable tape is available in two styles, Wet label*, IP65 rated silicone encapsulated tape, and Damp label* IP44 non-encapsulated tape.

CONSTRUCTION: The 24V tape is separable every 12", and can be cut every 4" at marked intervals. Cutting does not effect circuit.

TAPE LIGHT KIT: Complete kit for basic 16' installation. Includes: (1) 16' Tape Light Roll, (15) Clear Acrylic Clips, (1) 9" Power Line Interconnector, and (1) LED Plug-In Driver.

MOUNTING: Each Tape Light roll comes with 15 clear acrylic clips and also comes with pre-applied 3M™ adhesive tape for simple installation. Plastic channel (NATL-420) also available, sold separately.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Dimmable Class II Drivers.

ELECTRICAL:
Power: 24V DC Input / 1.5 Watts Per Foot
Light Source: 18 LEDs per foot
Operating Temp.: -13˚ F to 140˚F (-25˚C to 60˚C)
Life Expectancy: 50,000 Hours
Maximum Run Length: 64' using 24V Tape and 96W driver

INCLUDED WITH EVERY ROLL:
Each Tape Light Roll purchased includes a 9" power line connector [NATL-515 (12V) or NATL-509 (24V)], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of 12" sections.
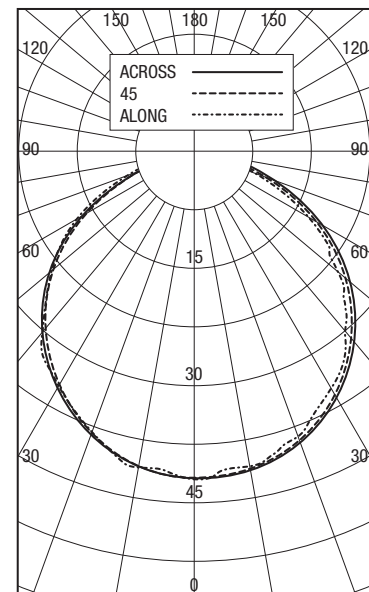
LISTINGS:
Consult spec sheet for current T24 status
cULus Listed for Damp Location (not submersible)
IP44 Rated

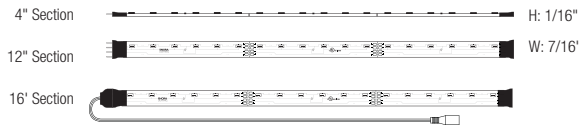**WARRANTY:**
3 Year Limited Warranty

NUTP7-4200K Test No. 32740

ACROSS
45
ALONG

Important - Consult Spec Sheets at www.noralighting.com for limitation on Wet and Damp Location applications.

NORA | *NSPEC*®

4" Section   H: 1/16"

12" Section   W: 7/16"

16' Section

Nora's Side-Lit Tape projects to the side, parallel to the mounting surface.

FEATURES:

· 70 Lumens per foot with 3000K CCT

· 288 LEDs / 24W per roll; 18 LEDs / 1.5W per foot

· 24V DC single color illumination

· Available in amber background with 2 color outputs: Warm White (3000K), Warm White (2700K)

· Separable every 12", easily disconnect and connect without soldering

· Field cuttable every 4"

· Maximum run:
Electronic Driver - 64' with 100W driver

· Easy to install with pre-applied 3M™ tape, clips or channel

· Dimmable with dimmable power supply

· Exceeds Title 24 high efficacy requirements

SIDE-LIT DAMP LABEL LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LABEL	COLOR TEMP
NUTP9-16LED(color)	16' Roll	Amber	24V	Damp*	**27** 2700K **30** 3000K

Example: **NUTP9-16LED30** - 24V Side-Lit Tape Light, 16' Roll, Damp Location Listed, 3000K

16' Tape Rolls include sixteen 12" sections.

Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

Nora's new Side-Lit LED tape has the same performance features as the standard damp label tape, but instead of projecting the light at 90 degrees and a 120 degree beam spread the light is projected to the side, parallel to the mounting surface of the tape. For example, when mounted under a cabinet in a horizontal position, the light projects sideways toward the back splash with minimal LED image on the counter top. This very low profile, energy efficient LED tape is only 7/16" wide and 1/16" thick. Designed to cast no shadows, our flexible LED light boasts a desirable seamless glow. Installation is easy as each roll (16 feet) is separable every 12" and can also be cut every 4". Our durable tape is Damp label* listed IP44.

CONSTRUCTION: The 24V tape is separable every 12", and can be cut every 4" at marked intervals. Cutting does not effect circuit.

MOUNTING: Each Tape Light roll comes with 15 clear acrylic clips and also comes with pre-applied 3M™ adhesive tape for simple installation. Plastic channel (NATL-420) also available, sold separately.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Dimmable Class II Drivers.

ELECTRICAL:
Power: 24V DC Input / 1.5 Watts Per Foot
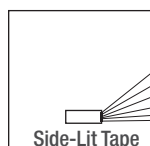Light Source: 18 LEDs per foot
Operating Temp.: -13˚ F to 140˚F (-25˚C to 60˚C)
Life Expectancy: 50,000 Hours
Maximum Run Length: 64' using 24V Tape and 96W driver

INCLUDED WITH EVERY ROLL:
Each Tape Light Roll purchased includes a 9" power line connector [NATL-509 (24V)], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of 12" sections.

LISTINGS:
Consult spec sheet for current T24 status
cULus Listed for Damp Location (not submersible)
IP44 Rated

WARRANTY:
3 Year Limited Warranty

Standard Tape	Side-Lit Tape

LED TAPE LIGHT

STANDARD WET / DAMP / SIDE-LIT ACCESSORIES & DRIVERS

"Y" Splitter Cable

NATL-300 12V or 24V

Allows splitting the Tape Light from a run or driver, into two separate runs.

X-Splitter Cable

NATL-301 12V or 24V

Allows splitting the Tape Light from a run or driver, into three separate runs.

12/24V Interconnection Cables

NATL-202	2" Cable
NATL-206	6" Cable
NATL-218	18" Cable
NATL-236	36" Cable
NATL-272	72" Cable

Allows easy linking of two Tape Light sections. Cables are flexible and can be moved in any direction, or be joined together for custom lengths.

Power Line Interconnector

NATL-509	24V 9" Cable
NATL-515	12V 9" Cable

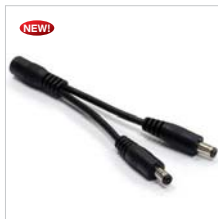Connects any Tape Light run to a driver. (1) Power line interconnector is included with every Tape Light roll.

Power Line Interconnector with On/Off Switch

NATL-511	24V 11" Cable
NATL-517	12V 11" Cable

Allows individual switching on any Tape Light run, and connect LED Tape Light run directly to LED Driver.

24V Power Line Splitter

NATL-302 5" Cable

One split into two lines

Power Line Connector

NAPK-10	12V 10' Cable
NAPK-30	12V 30' Cable
NALTL-10	24V 10' Cable
NALTL-30	24V 30' Cable

For use with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Shrink Wrap Tube

NATL-400 Pack of 5

Seals connection made in the field. Necessary to maintain ETL Wet Listing. Two shrink wrap tubes are included with every Tape Light roll and section.

End Cap

NATL-403

Covers open end of RGB Tape Light.

Clear Acrylic Mounting Clips

NATHR-685 Pack of 15

Use in conjunction with adhesive backing to attach Tape Light to a surface. Pack of 15 clear acrylic mounting clips are included with every RGB Tape Light roll.

Hardwired Class II El. Driver Non-Dimmable

NAPK-530HW/12	12V 30W
NAPK-560HW/12	12V 60W
NATL-530HW	24V 30W
NATL-560HW	24V 60W

Voltage: 12V or 24V DC
Cable Length: 3-1/4"
Input Wire: 4"
Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run.

Direct Plug-In El. Driver Non-Dimmable

NAPK-524/12	12V 24W
NATL-524	24V 24W
NATL-545	24V 45W

Voltage: 12V or 24V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Tape Light run.

Class II Elec. LED Driver Non-Dimmable

NATL-596	24V 96W
NAPK-550/12	12V 50W

Input Wire: 5' Cord and Plug
Output Wire: 44" Out Wire

12V Class II Hardwire Magnetic Driver Non-Dim

NMT-244/12C2D1*	4x60W
NMT-36/12C2D1	36W

Voltage: 12V DC
*Includes: (4) 10' Power Line Connectors (30'ordered separately)
Dimmable
NMT-303/24/C2D1 3x100W

24V Class II Electronic LED Driver Non-Dimmable

NATL-5060HW	60W
NATL-5100HW	100W

Dimmable (0-10V)

NATL-5060-12HWD10	12V 60W
NATL-5096-24HWD10	24V 90W

Includes hardwire box and 10' Power Line Connector

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12V & 24V Class II Hardwire Magnetic Driver Dimmable

NMTD-40/12D	12V 40W
NMTD-60/12D	12V 60W
NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W

Voltage: 12V & 24V DC
*Includes: (3) 10' Power Line Connectors (30'ordered separately)

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage lead to low voltage power line connector or interconnector.)

Junction Box for Hard Wiring

NUSP-JBox

Use with NATL-530HW, NATL-560HW or NATL-5100 Drivers. Capable of feeding two separate runs. Accepts Romex®

Flexible Extension Cord

NRA-125/6	6" Cable
NRA-125/12	12" Cable
NRA-125/18	18" Cable
NRA-125/72	72" Cable

Extends length between NUSP-JBox and NATL-530HW & NATL-560HW. Can be joined together to create custom lengths.

Flexible Power Cord

NRA-6035W/6 6' Cable
NRA-6035W/10 10' Cable

Converts NATL-530HW and NATL-560HW into a direct plug-in driver.

4' Shallow Aluminum Channel

NATL-C23	with Wing
NATL-C24	

Plastic diffuser and End caps included. Field cuttable

4' Deep Aluminum Channels

NATL-C25	with Wing
NATL-C26	

Plastic diffuser and End caps included. Field cuttable

4' J-Style Aluminum Channels

NATL-C27

Field cuttable

4' Corner Aluminum Channel

NATL-C28

Plastic diffuser and End caps included. Field cuttable

4' Plastic Channel

NATL-420B	Black
NATL-420W	White

Mounts Tape Light to various surfaces. Tape Light snaps into the channel. Field cuttable. UV protected.

2' Wire Raceway

NATL-422

Field-cuttable plastic. Includes wire channel with double faced tape and cover. Black or White.

Touch Dimmer with Memory

NATL-518

72W max., no power fail memory,
touch on/off and hold to dim.

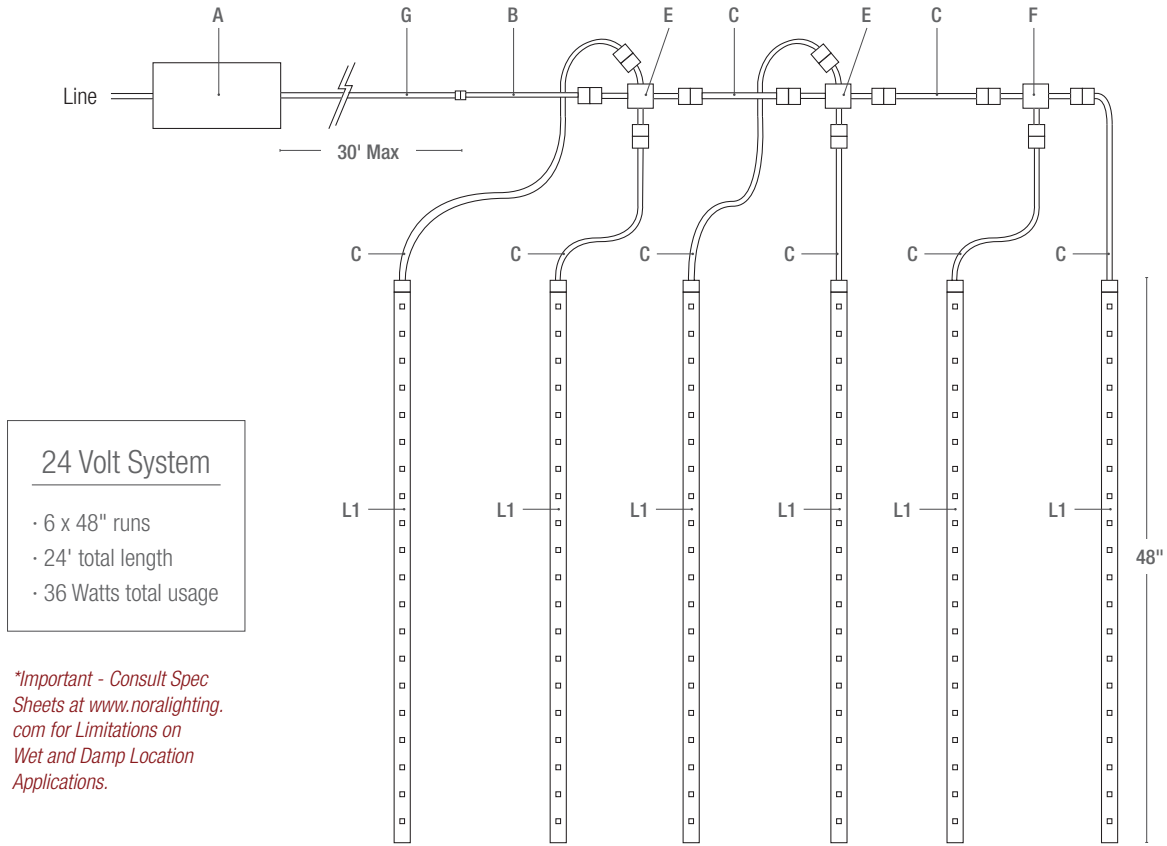**SWITCHEX® All-in-One LED Driver and Dimmer**

NATL-SWEX100/24 24V 100W

NATL-SWEX60/12 12V 60W

Converts 120 VAC to low voltage DC in a standard electrical box. Includes face plate.

LED TAPE LIGHT
STANDARD AND SIDE-LIT SAMPLE LAYOUT

Line

30' Max

24 Volt System

· 6 x 48" runs
· 24' total length
· 36 Watts total usage

*Important - Consult Spec
Sheets at www.noralighting.
com for Limitations on
Wet and Damp Location
Applications.*

48"

	DESCRIPTION	ITEM #
A1	24V 48W Dimmable Magnetic Power Supply - Hardwire	NMT-48/24C2D1
B	9" Power Line Interconnector (one included with each Tape Light roll)	NATL-509
C	2" Interconnection Cable 6" Interconnection Cable 18" Interconnection Cable 36" Interconnection Cable 72" Interconnection Cable	NATL-202 NATL-206 NATL-218 NATL-236 NATL-272
E	"X" Splitter Cable (1 in & 3 out)	NATL-301
F	"Y" Splitter Cable (1 in & 2 out)	NATL-300
G	30' Power Line Connector	NALTL-30
L1	48" LED Tape Light Segment (Each NUTP(1, 7 or 9)-16LED Roll contains (16) 12" detachable sections)	(1) NUTP(1, 7 or 9)-W16LED(color) and (8) NUTP(1, 7 or 9)-W LED(color)/12
	Note: All drivers require power line interconnector to connect to tape.	

NORA | NSPEC®

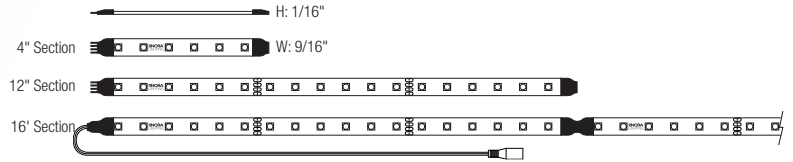A3
A2

A3 A2

B

B

L1

16'

C

L1

16'
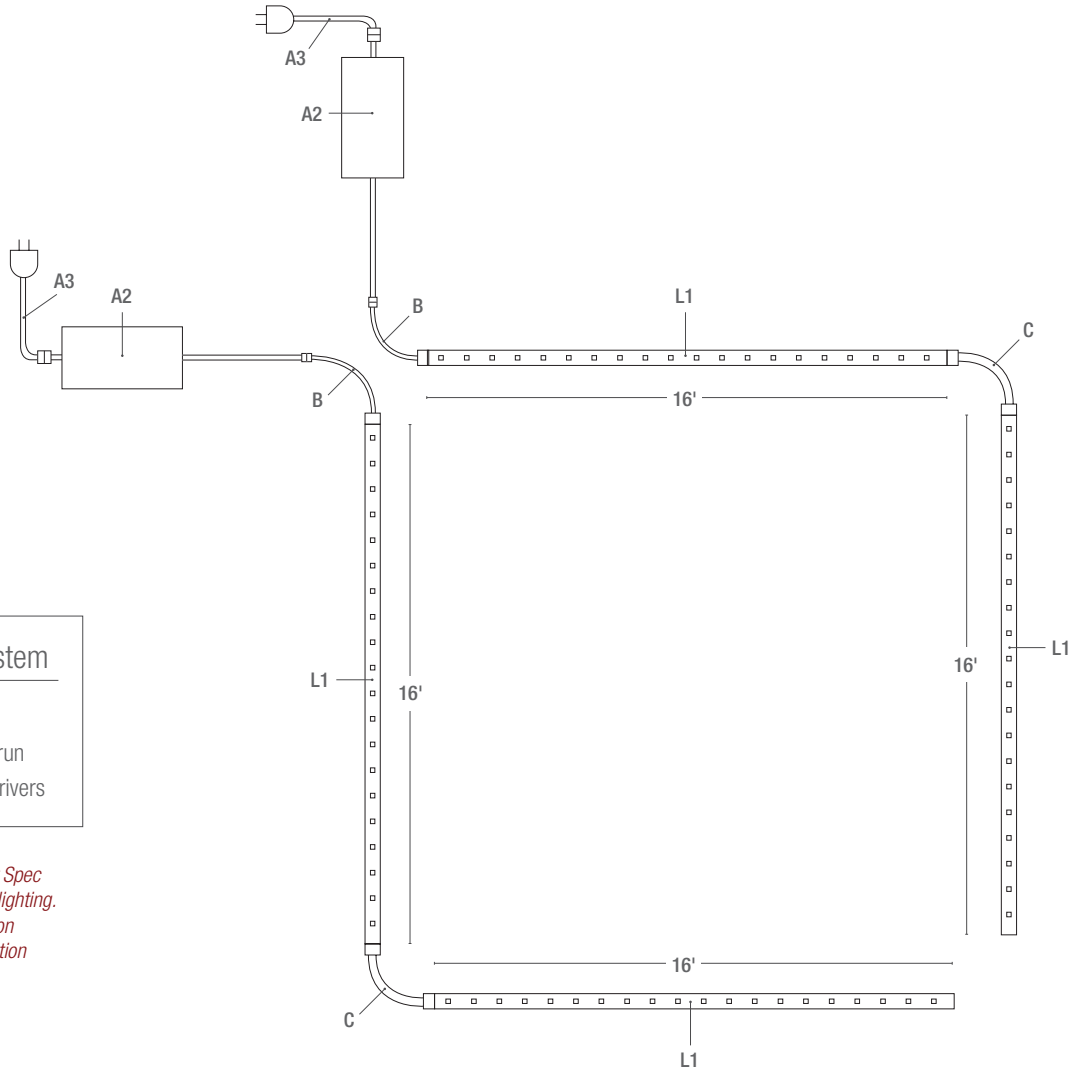
24 Volt System

· 2 x 30' runs
· 48 Watts per run
· 2 x 60 Watt Drivers

Important - Consult Spec Sheets at www.noralighting. com for Limitations on Wet and Damp Location Applications.

L1

16'

16'

C

16'

L1

	DESCRIPTION	ITEM #
A2	24V 60W Class II Hardwire LED Driver	NATL-560HW
A3	Flexible 6' Power Cord	NRA-6035W/6
B	9" Power Line Interconnector (one included with each Tape Light roll)	NATL-509
C	2" Interconnection Cable 6" Interconnection Cable 18" Interconnection Cable 36" Interconnection Cable 72" Interconnection Cable	NATL-202 NATL-206 NATL-218 NATL-236 NATL-272
L1	16' LED Tape Light Roll (Disconnect every 12" or can be cut every 4", contains (16) 12" segments)	(4) NUTP(1, 7 or 9)-W16LED(color)

LED TAPE LIGHT
24V HY-BRITE 200 LUMENS PER FOOT

H: 1/16"

4" Section
W: 9/16"

12" Section

16' Section

FEATURES:

· 200+ Lumens per foot
· Available in 90+ CRI
· 44W per roll - 2.7W per foot
· 24V DC System
· White finished tape
· Single color illumination
· 120° Beam Angle
· No soldering or additional wiring required
· Separable every 12" - easily disconnected and connected without soldering
· Field cuttable every 4" or 6 LEDs
· Single Maximum Run Length: 16' with magnetic dimmable drivers and 32' with electronic drivers
· Dimmable with dimable power supply
· Easy to install with pre-applied 3M™ tape or clips
· Title 24 Compliant
· cUL us Listed and IP44 Rated for Damp* location

HY-BRITE LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	90+ CRI	VOLT	LABEL	COLOR TEMP
NUTP5-W16LED9(color)	16' Roll	White	Yes	24V	Damp*	**27** 2700K
NUTP5-WLED9(color)/12	12" Section	White	Yes	24V	Damp*	**30** 3000K
NUTP5-WLED9(color)/4	4" Section	White	Yes	24V	Damp*	**42** 4200K

*Example: **NUTP5-WLED942/4** - 24V Hy-Brite LED Tape Light, 4" Section, Damp Location Listed, 90+ CRI, 4200K*

*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

Nora's new Hy-Brite LED Tape is the perfect solution when you need more light than Nora's Standard LED Tape but less than Nora's High Performance High-Output LED Tape. Producing 200+ lumens, Damp Label* IP44 cULus listed the Hy-Brite uses the same connectors and accessories as the HO LED Tape. The low profile tape is the ideal for coves, architectural details, under and in cabinets, toe kicks, and back lighting. HY-Brite can be used outdoors when not exposed to direct water spray.

CONSTRUCTION: The tape is separable every 12", and can be cut every 6 LEDs at marked 4" intervals. Cutting does not effect circuit.

MOUNTING: Each Tape Light roll comes with with pre-applied 3M™ adhesive tape and 15 clear acrylic clips for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Hardwire Dimmable Class II Drivers up to 300 Watts.

ELECTRICAL:
Power: 24V DC Input / 2.7 Watts Per Foot
Light Source: 12 Hy-Brite LEDs Per Foot
Operating Temp: -25℃ to 60℃ (-13˚ F to 140˚ F)
Life Expectancy: 50,000 Hours
Single Maximum Run Length: 16' with magnetic dimmable drivers and 32' with electronic drivers

INCLUDED WITH EVERY HY-BRITE TAPE
LIGHT ROLL: Each Tape Light purchased includes a 12" power line connector [NAHO-609], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of (16) 12" sections.

LISTINGS:
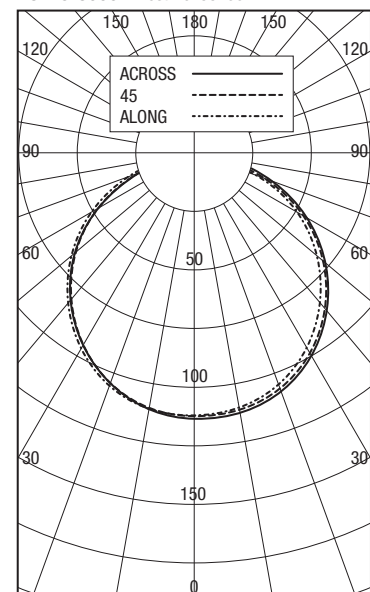cULus Listed for Damp* Location
IP44 Rated
Consult spec sheet for current T24 status
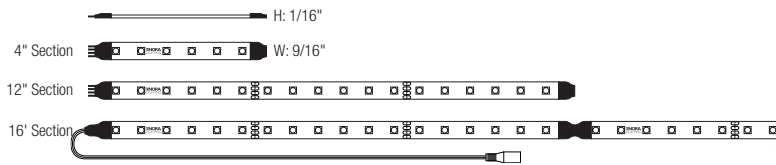
WARRANTY:
3 Year Limited Warranty

NUTP5-3000K Test No. 33100

ACROSS ——
45 -------
ALONG -·-·-·-

*Important - Consult Spec Sheets at www.noralighting.com for limitation on Wet and Damp Location applications.

NORA | NSPEC®

LED TAPE LIGHT
350 LUMENS PER FOOT 24V HIGH OUTPUT

H: 1/16"

4" Section

W: 9/16"

12" Section

16' Section

FEATURES:

· 350 Lumens per foot

· Available in 90+ CRI

· 180 LEDs / 42W per roll - 18 LEDs / 4.2W per ft.

· 24V DC System

· 6 available colors: Blue, Green, Red, Yellow, Cool White (4200K), Warm White (2700K, 3000K)

· White finished tape

· 120˚ Beam Angle

· No soldering or additional wiring required

· Separable every 12" - easily disconnected and connected without soldering

· Field cuttable every 4" or 6 LEDs

· 10' single run maximum

· Dimmable Remote Hardwire Drivers, up to 300W

· Easy to install with pre-applied 3M™ tape or clips

· Title 24 Compliant

· cETLus Listed and IP44 Rated for Damp* location

HIGH OUTPUT LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	90+ CRI	VOLT	LABEL	COLOR TEMP
NUTP8-W10LED9(color)	10' Roll	White**	Yes	24V	Damp*	**27** 2700K
NUTP8-WLED9(color)/12	12" Section	White**	Yes	24V	Damp*	**30** 3000K
NUTP8-WLED9(color)/4	4" Section	White**	Yes	24V	Damp*	**42** 4200K

*Example: **NUTP8-WLED930/12** - 24V High Output LED Tape Light, 12" Section, Damp Location Listed, 90+ CRI, 3000K*

10' Tape Rolls include ten 12" sections. 12" and 4" Tape sections contain male/female ends.

*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

High Output LED Tape Light has five times the light output of our standard tape, consumes only 4.2W per foot, and is a perfect solution for your LED linear lighting needs. Very low profile High Output LED Tape is great for use in cove lighting, architectural enhancements, under cabinet or many more discreet locations. This flexible LED light source is cULus Listed for Damp* Location applications and IP44 rated.

CONSTRUCTION: The silicone encapsulated tape is separable every 12", and can be cut every 6 LEDs at marked 4" intervals. Cutting does not effect circuit.

MOUNTING: Each Tape Light roll comes with with pre-applied 3M™ adhesive tape and 15 clear acrylic clips for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Hardwire Dimmable Class II Drivers up to 300 Watts.

ELECTRICAL:
Power: 24V DC Input / 4 Watts Per Foot
Light Source: 18 High Output LEDs Per Foot
Operating Temp: -25˚C to 60˚C (-13˚ F to 140˚ F)
Life Expectancy: 50,000 Hours
Maximum Run Length: 10'

INCLUDED WITH EVERY HIGH OUTPUT TAPE LIGHT ROLL: Each Tape Light purchased includes a 12" power line connector [NAHO-609], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 10' tape consisting of (10) 12" sections.

LISTINGS:
cULus Listed for Damp* Location
IP44 Rated
Consult spec sheet for current T24 status

WARRANTY:
3 Year Limited Warranty

LIGHTING TIP

While some tape is offered in dedicated colors like red or blue we have found that clients prefer to use our RGB or RGBW tape to dial in the exact color they want. Colors reflect differently off different colors, the RGB and RGBW let you adjust for the reflectance to the desired color.

LED TAPE LIGHT
HY-BRITE / HIGH OUTPUT ACCESSORIES AND DRIVERS

Y-Splitter Cable

NAHO-600   Y Cable

Allows splitting Hy-Brite & High Output Tape light from a run or driver into two or three separate runs.

X-Splitter Cable

NAHO-601   X Cable

Allows splitting Hy-Brite & High Output Tape light from a run or driver into two or three separate runs.

Interconnection Cables

NAHO-602	2" Cable
NAHO-606	6" Cable
NAHO-618	18" Cable
NAHO-636	36" Cable
NAHO-672	72" Cable

Interconnection cable allows easy linking of two Hy-Brite or High Output Tape sections. Cables are flexible and can be moved in any direction, or be joined together for custom lengths.
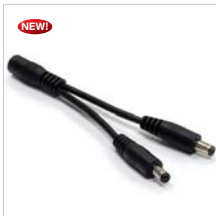

Power Line Interconnector

NAHO-609

Connects Hy-Brite or High Output Tape Light run to a driver. (1) Power line interconnector is included with every Hy-Brite and High Output Tape Light roll.

Power Line Interconnector with On/Off Switch

NAHO-611

Allows individual switching on any Hy-Brite and High Output Tape Light run, and connect the LED tape light run to an LED driver.

NEW!

24V Power Line Splitter

NATL-302   5" Cable

One split into two lines

Power Line Connector

NALTL-10	10' Cable
NALTL-30	30' Cable

Used with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Shrink Wrap Tube

NATL-400   Pack of 5

Seals connection made in the field. Necessary to maintain ETL Wet Listing. Two shrink wrap tubes are included with every Tape Light roll and section.

End Cap

NATL-403

Covers open end of RGB Tape Light.

Clear Acrylic Mounting Clips

NATHR-685   Pack of 15

Use in conjunction with adhesive backing to attach Tape Light to a surface. Pack of 15 clear acrylic mounting clips are included with every RGB Tape Light roll.

Hardwired Class II El. Driver Non-Dimmable

NATL-530HW	24V 30W
NATL-560HW	24V 60W

Voltage: 24V DC
Cable Length: 3-1/4"
Input Wire: 4"
*Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run.

Direct Plug-In Elect. Driver Non-Dimmable

NATL-524	24V 24W
NATL-545	24V 45W

Voltage: 24V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Tape Light run.

Class II Electronic LED Driver Non-Dimmable

NATL-596   96W

Voltage: 24V DC
Input Wire: 5' Cord and Plug
Output Wire: 44" Out Wire

24V Class II Electronic LED Driver Non-Dimmable

NATL-5060HW	60W
NATL-5100HW	100W

Dimmable (0-10V)
NATL-5096-24HWD10 96W

Includes hardwire box and 10' Power Line Connector

12V & 24V Class II Hardwire Magnetic Driver Dimmable

NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W

NTM-303/24C2D1 3x100W

Voltage: 24V DC
***Includes:** (3) 10' Power Line Connectors (30'ordered separately)

NORA | NSPEC®

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage
lead to low voltage power line
connector or interconnector.)

Junction Box for Hard Wiring

NUSP-JBox

Use with NATL-530HW,
NATL-560HW or NATL-5100
Drivers. Capable of feeding two
separate runs. Accepts Romex®

Flexible Extension Cord

NRA-125/6	6" Cable
NRA-125/12	12" Cable
NRA-125/18	18" Cable
NRA-125/72	72" Cable

Extends length between NUSP-
JBox and NATL-530HW &
NATL-560HW. Can be joined
together to create custom
lengths.

Flexible Power Cord

NRA-6035W/6   **6' Cable**
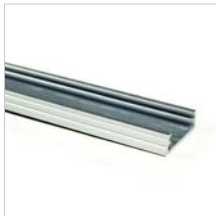**NRA-6035W/10 10' Cable**

Converts NATL-530HW and
NATL-560HW into a direct
plug-in driver.

2' Wire Raceway

NATL-422

Field-cuttable plastic. Includes
wire channel with double faced
tape and cover. Black or White.

4' Aluminum Channel

NATHR-680

Can be use with NAL-201,
NAL-245 or NAL-280 mounting
clips. Field cuttable

4' Shallow Aluminum Channel

NEW!

NATL-C23   with Wing
NATL-C24

Plastic diffuser and End caps
included. Field cuttable

4' Deep Aluminum Channels

NEW!

NATL-C25   with Wing
NATL-C26

Plastic diffuser and End caps
included. Field cuttable

4' J-Style Aluminum Channels

NEW!

NATL-C27

Field cuttable

4' Corner Aluminum Channel

NEW!

NATL-C28

Plastic diffuser and End caps
included. Field cuttable

Touch Dimmer with Memory

NATL-518

72W max., no power fail
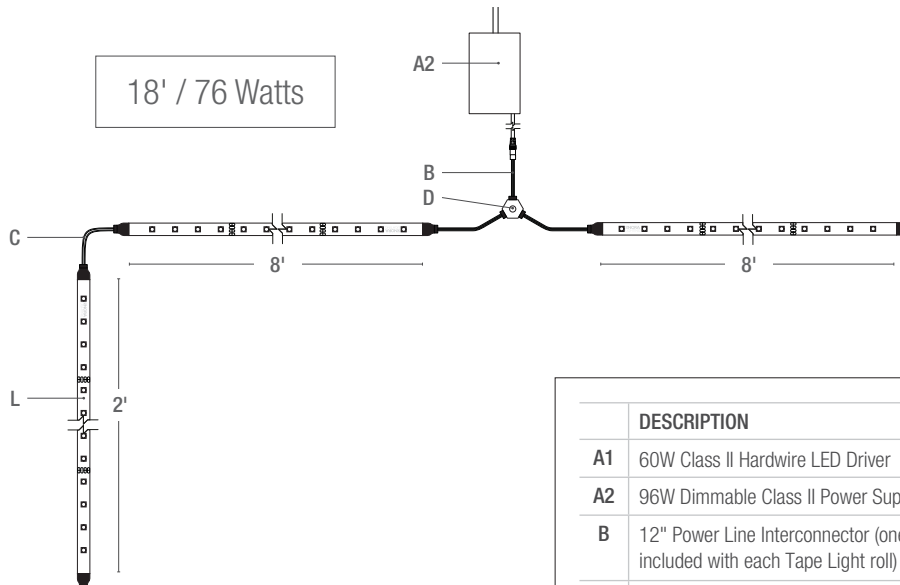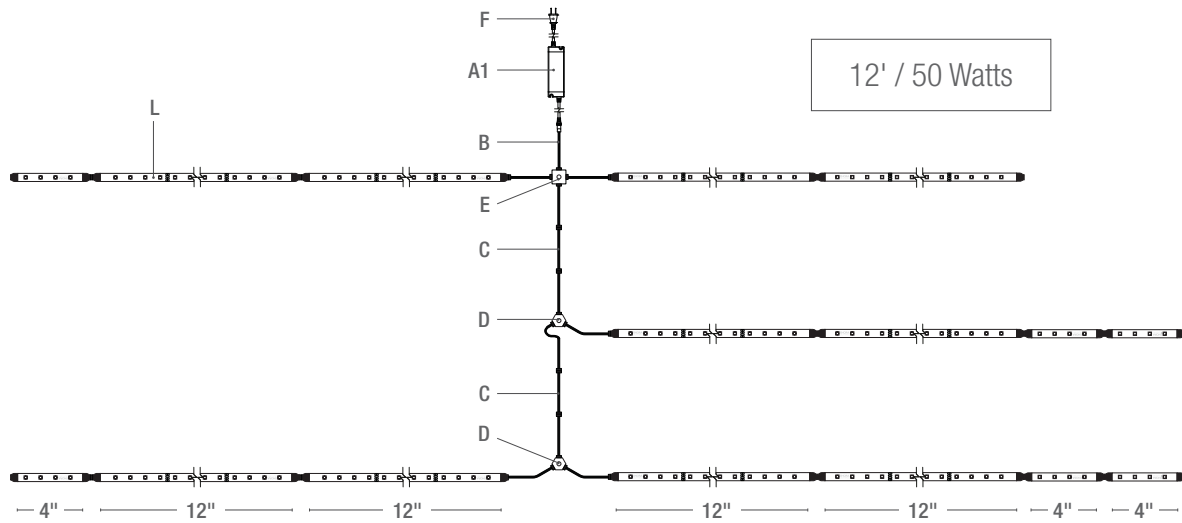memory,
touch on/off and hold to dim.

SWITCHEX® All-in-One LED Driver and Dimmer

NATL-SWEX100/24
 24V 100W

Converts 120 VAC to low
voltage DC in a standard
electrical box. Includes face
plate.

LED TAPE LIGHT
HY-BRITE / HIGH OUTPUT SAMPLE LAYOUT

12' / 50 Watts

F
A1
L
B
E
C
D
C
D

— 4" — — 12" — — 12" — — 12" — — 12" — — 4" — — 4" —

18' / 76 Watts

A2
B
D
C
L   2'

— 8" —   — 8' —

	DESCRIPTION	ITEM #
A1	60W Class II Hardwire LED Driver	NATL-560HW
A2	96W Dimmable Class II Power Supply	NMT-96/24C2D1
B	12" Power Line Interconnector (one included with each Tape Light roll)	NAHO-609
C	2" Interconnection Cable 6" Interconnection Cable 18" Interconnection Cable 36" Interconnection Cable 72" Interconnection Cable	NAHO-602 NAHO-606 NAHO-618 NAHO-636 NAHO-672
D	"Y" Splitter Cable	NAHO-600
E	"X" Splitter Cable	NAHO-601
F	Flexible 6' Power Cord	NRA-6035W/6
L	4" High Output LED Tape Light 12" High Output LED Tape Light 16' High Output LED Tape Light	NUTP5-LED(color)/4 NUTP5-LED(color)/12 NUTP5-16LED(color)

*Important - Consult Spec Sheets at www.noralighting.com
for Limitations on Wet and Damp Location Applications.*
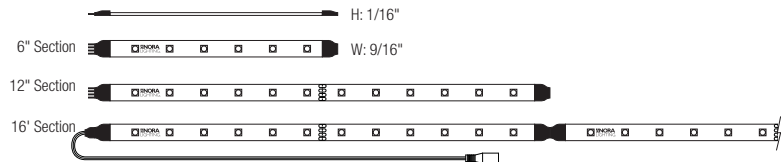
NORA | NSPEC®

LED TAPE LIGHT

RGB COLOR CHANGING 12V OR 24V · WET LABEL

RGB LED Tape can create up to 16 colors!

Program a single stationary color or multiple transitioning colors. *Each RGB LED run requires a controller and driver/power supply.*

H: 1/16"
W: 9/16"

6" Section

12" Section

16' Section

RGB COLOR CHANGING LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LABEL	COLOR TEMP
NUTP3-W16LEDRGB	16' Roll	White	24V	Wet*	Color Changing RGB
NUTP3-WLEDRGB/12	12" Section	White	24V	Wet*	
NUTP3-WLEDRGB/6	6" Section	White	24V	Wet*	
NUTP6-16LEDRGB	16' Roll	Amber	12V	Wet*	
NUTP6-LEDRGB/12	12" Section	Amber	12V	Wet*	
NUTP6-LEDRGB/6	6" Section	Amber	12V	Wet*	

*Example: **NUTP3-W16LEDRGB** - 24V RGB LED Tape Light Roll*

16' Tape Rolls include sixteen 12" sections. 12" and 6" Tape sections contain male/female ends.

*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Wet Location applications.

FEATURES:

· Now available in 12V or 24V

· Separable every 12" - easily disconnected and connected without soldering

· Field cuttable every 3" using 12V and 6" using 24V

· Shrink Wrap Tube at each Breakaway

· 40W per roll - 2.5W per foot

· Primary Colors: Red, Green, and Blue

· Several colors or automated changing of visual spectrum can be selected and programmed

· Synchronizable

· 3 changeable brightness levels with hand held remote

· 192 LEDs per roll - 12 LEDs per foot

· 120° Beam Angle

· Pre-applied 3M™ Tape for mounting

· No UV light or infrared wavelengths

RGB LED Tape Light has the colors Red, Green, and Blue in every LED diode. Several colors of visual spectrum can be selected and programmed with a 120° viewing angle. A stationary color, automatic changing colors and brightness can be selected and changed at anytime with the press of a button. Very low profile RGB LED Tape Light is a great use in show exhibition lighting, architectural enhancements, bars, theaters, store fronts, or anywhere you need a punch of color. Controller needed to operate color variations. This flexible LED light source is a durable silicone encapsulated tape, cULus Listed for Wet* Locations applications and IP65 rated.

CONSTRUCTION: The silicone encapsulated tape can be cut every 3" (12V) or 6" (24V) at marked intervals. Cutting does not effect circuit (shrink wrap tube included for concealment). RGB Tape Light is also separable every 12", each connection has pre-applied shrink wrap around connections to ensure wet* location listing. Simply slice the clear shrink wrap at

each electrical connection, and separate pieces. This eliminates soldering when using partial rolls.

MOUNTING: Each RGB Tape Light roll comes with 15 clear acrylic clips and also comes with pre-applied 3M™ adhesive tape for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and hardwire power supplies are available.

CONTROLLER: Each run requires a controller, which can be linked together for color synchronization.

ELECTRICAL:

Power: 12V or 24V DC Input / 2.5 Watts per Foot
Light Source: 12 LEDs per foot
Operating Temp: -25℃ to 60℃ (-13° F to 140° F)
Life Expectancy: 50,000 Hours
Maximum Run Length: 40 feet with 24V Tape and 100W driver. 24 feet with 12V tape and 60W driver.

INCLUDED WITH EVERY RGB TAPE LIGHT ROLL: Each RGB Tape Light roll purchased includes a 12" power line connector [NARGB-710], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of 12" sections.

REQUIRED TO RUN RGB TAPE LIGHT:
RGB Tape Light, Power Line Interconnector, RGB Controller, and LED Driver.

LISTINGS:
cULus Listed for Wet Location* (not submersible)
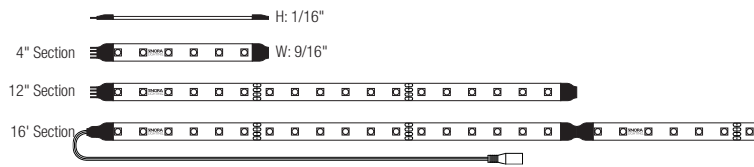IP65 Rated
California Energy Commission

WARRANTY:
3 Year Limited Warranty

NORA | NSPEC®

H: 1/16"

4" Section

W: 9/16"

12" Section

16' Section

2500K warm - 4500K cool

CCT COLOR TUNING DAMP LABEL 24V LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LABEL	COLOR TEMP
NUTP10-W16CCT	16' Roll	White	24V	Damp	Color Tunning 2500K-4500K
NUTP10-WCCT/12	12" Section	White	24V	Damp	
NUTP10-WCCT/4	4" Section	White	24V	Damp	

*Example: **NUTP10-W16CCT**- 24V Color Tunning (2500K-4500K) LED Tape Light Roll*

16' Tape Rolls include sixteen 12" sections. 12" and 4" Tape sections contain male/female ends.
*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location
applications.

FEATURES:

· 192 LEDs / 36W per roll - 12 LEDs / 2.5W per ft.

· 24V DC System

· Change Kelvin temperature from 2500K-4500K with hand held remote control

· Synchronizable

· 120˚ Beam Angle

· No soldering or additional wiring required

· Separable every 4" - easily disconnected and connected without soldering

· Field cuttable every 4" or 6 LEDs

· 16' single run maximum

· Plug-in & Remote Hardwire Drivers, up to 300W

· Easy to install with pre-applied 3M™ tape or clips

· Title 24 Compliant

· cETLus Listed and IP44 Rated for Damp* location

Nora introduces a new idea in tape light. The CCT tape by Nora allows the end user to select from a 2500K to 4500K temperature with a handheld control. Different applications require different Kelvin temperatures to enhance various color spectrums. Use 2500K for a warm red enhancing application and 4500K for a blue/green enhancing application. The RF controller is operated with a hand-held remote that lets the end user select the temperature and intensity as the application or mood changes as well as having the option to set optional automatic changing modes.

CONSTRUCTION: The tape is separable every 12", and can be cut at marked 4" intervals. Cutting does not effect circuit.

MOUNTING: Each Tape Light roll comes with with pre-applied 3M™ adhesive tape and 15 clear acrylic clips for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Hardwire Class II Drivers

up to 300 Watts.

ELECTRICAL:

Power: 24V DC Input / 2.5 Watts Per Foot
Light Source: 12 double Diode LEDs per foot
Operating Temp: -25˚C to 60˚C (-13˚ F to 140˚ F)
Life Expectancy: 50,000 Hours
Maximum Run Length: 16'

INCLUDED WITH EVERY HIGH OUTPUT TAPE
LIGHT ROLL: Each Tape Light purchased includes a 12" power line connector [NAHO-609], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of (16) 12" sections.

LISTINGS:

cULus Listed for Damp* Location
IP44 Rated
Consult spec sheet for current T24 status

WARRANTY:

3 Year Limited Warranty

LED TAPE LIGHT

RGB & CCT COLOR CHANGING ACCESSORIES

RGB Controller

NARGB-760 24V Controller

NARGB-765 12V Controller

360W Max. A controller is required for each RGB LED Tape Light run. Installs between the driver and the power line interconnector. The controller can be used to toggle between colors or changing modes.

RGB Controller Hand Held Remote

NARGB-761

Up to 22' away. Must be in direct view line of RGB controller to work correctly. Used to program RGB Tape Light run to certain color configurations.
Key Selections: Brightness, Colors, Color Changing - Flash, Strobe, Fade and Smooth Fade, On/Off

RGB Touch Pad Wall Controller

NARGB-866

12V - 144W max or 24V - 288W max. Includes mounting back box. Requires driver.
Local control of RGB, select static colors, 4 changing modes, on/off with memory and dimming.

Spectrum Wall Slide Control

NARGB-875W

Dual -Slide controller for CCT tape or RGB tape. One slide control controls color and the other controls brightness with a positive off. Installs between driver and tape.

RGB 2.4G Full   Color RF Controller

NARGB-860

Covers open end of RGB Tape.

RGB 2.4G RF Hand Held Remote

NARGB-861

Maximum 90ft. distance from controller.

CCT Color Tunning Controller (25K-45K)

NACCT-865

CCT Color Tunning Hand Held Remote

**NACCT-867**

Splitter Cables   12V/24V

NARGB-700   Y Splitter

NARGB-701   X Splitter

Allows splitting the RGB Tape light from a run or driver into two (Y) or three (X) separate runs.

Interconnection Cables 12/24V

NARGB-702	2" Cable
NARGB-706	6" Cable
NARGB-718	18" Cable
NARGB-736	36" Cable
NARGB-772	72" Cable

Allows easy linking of 2 RGB Tape Lights sections. Cables are flexible and can be moved in any direction, or be joined together for custom lengths.
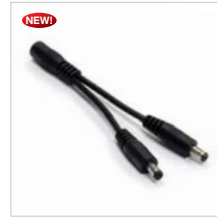
24V Power Line Splitter

NATL-302   5" Cable

One split into two lines.

12V & 24V Power Line Interconnector

NARGB-710   12" Cable

Connects an RGB controller.
Note: (1) NARGB-710 is included with every RGB Tape Light roll. Use interconnection cables to increase length.

Power Line Connector

NAPK-10	12V 10' Cable
NAPK-30	12V 30' Cable
NALTL-10	24V 10' Cable
NALTL-30	24V 30' Cable

For use with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Controller Power Line Connector

NARGB-762	24V 10'
NARGB-763	24V 30'
NARGB-767	12V 10'
NARGB-768	12V 30'

Replaces included 9-1/2" input wire, to allow for 30' or less length between controller and LED Driver.

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage lead to low voltage power line connector or interconnector.

2' Wire Raceway

NATL-422

Field-cuttable plastic. Includes wire channel with double faced tape and cover. Black or White.

NORA | NSPEC®

Hardwired Class II El. Driver Non-Dimmable

NAPK-530HW/12 12V 30W
NAPK-560HW/12 12V 60W
NATL-530HW 24V 30W
NATL-560HW 24V 60W

Voltage: 12V or 24V DC
Cable Length: 3-1/4"
Input Wire: 4"
*Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run.

Direct Plug-In Elect. Driver Non-Dimmable

NAPK-524/12 12V 24W
NATL-524 24V 24W
NATL-545 24V 45W

Voltage: 12V or 24V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Tape Light run.

Class II Hardwire Magnetic Driver Non-Dim

NMT-244/12C2D1* 4x60W
NTM-303/24C2D1 3x100W

Voltage: 12V & 24V DC
***Includes:** (4) 10' Power Line Connectors (30'ordered separately)

24V Class II Electronic LED Driver Non-Dimmable

NATL-5060HW 60W
NATL-5100HW 100W

NATL-5096-24HWD10 96W

Includes hardwire box and 10' Power Line Connector

12V & 24V Class II Hardwire Magnetic Driver Dimmable

NMTD-40/12D 12V 40W
NMTD-60/12D 12V 60W
NMTD-60/24D 24V 60W
NMTD-96/24D 24V 96W

Voltage: 12V & 24V DC
***Includes:** (3) 10' Power Line Connectors (30'ordered separately)

Flexible Extension Cord

NRA-125/6 6" Cable
NRA-125/12 12" Cable
NRA-125/18 18" Cable
NRA-125/72 72" Cable

Extends length between NUSP-JBox and NAPK-530HW/12, NAPK-560HW/12, NATL-530HW & NATL-560HW. Can be joined together to create custom lengths.

Flexible Power Cord

NRA-6035W/6 6' Cable
NRA-6035W/10 10' Cable

Converts NAPK-530HW/12, NAPK-560HW/12, NATL-530HW and NATL-560HW into a direct plug-in driver.

Shrink Wrap Tube

NATL-400 Pack of 5

Seals connection made in the field. Necessary to maintain ETL Wet Listing. Two shrink wrap tubes are included with every Tape Light roll and section.

12V & 24V End Cap

NATL-403

Covers open end of RGB Tape Light.

Clear Acrylic Mounting Clips

NATHR-685 Pack of 15

Use in conjunction with adhesive backing to attach Tape Light to a surface. Pack of 15 clear acrylic mounting clips are included with every RGB Tape Light roll.

4' Shallow Aluminum Channel

NATL-C23 with Wing
NATL-C24

Plastic diffuser and End caps included. Field cuttable

4' Deep Aluminum Channels

NATL-C25 with Wing
NATL-C26

Plastic diffuser and End caps included. Field cuttable
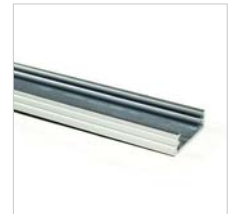

4' J-Style Aluminum Channels

NATL-C27

Field cuttable

4' Corner Aluminum Channel

NATL-C28

Plastic diffuser and End caps included. Field cuttable
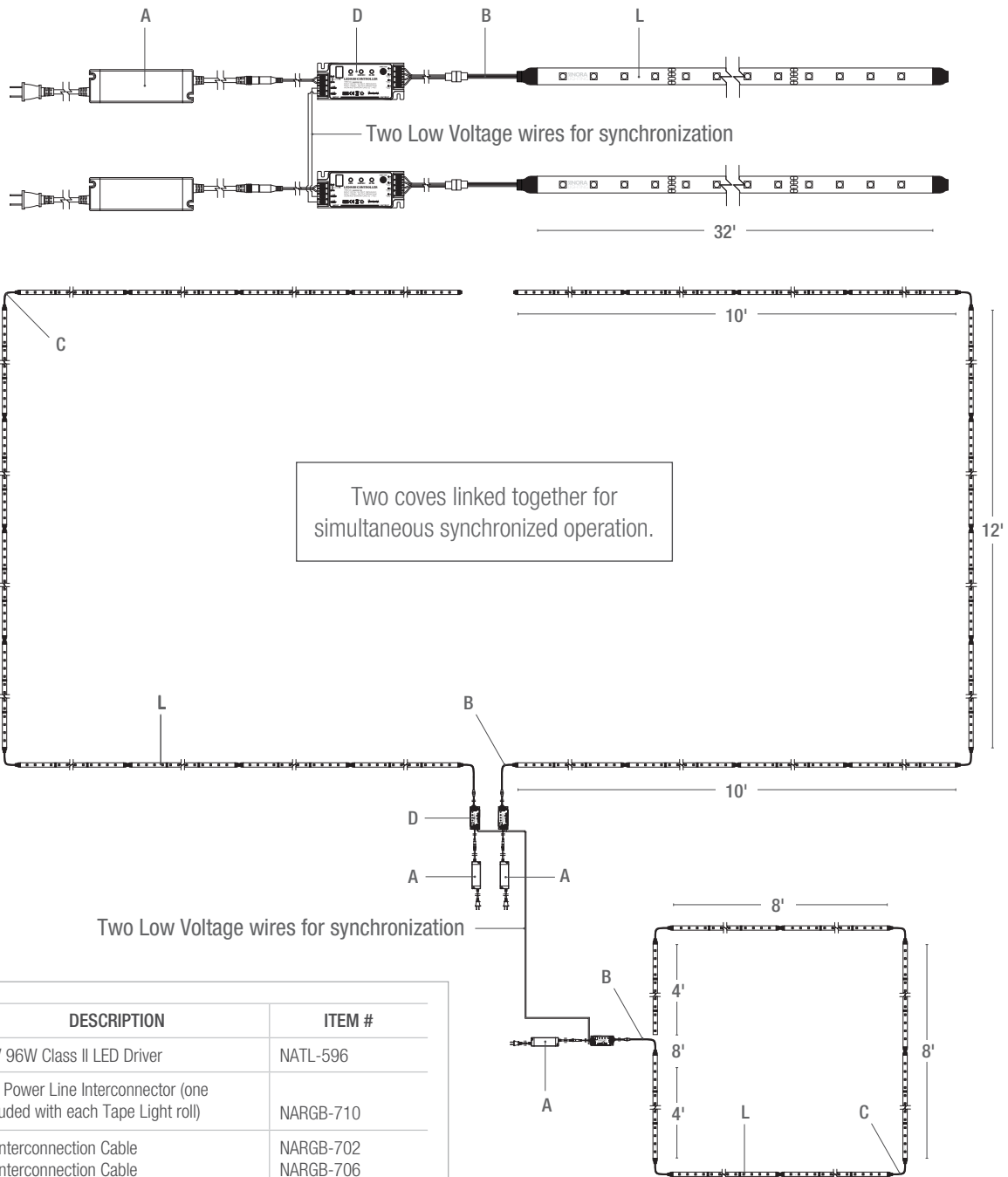

4' Aluminum Channel

NATHR-680

Can be use with NAL-201, NAL-245 or NAL-280 mounting clips. Field cuttable

*Note: Each RGB Tape Light run requires a driver, controller, power line interconnector and tape. To accomplish the RGB color changing, you must use the RGB controller between the Driver and the RGB tape.

LED TAPE LIGHT
RGB COLOR CHANGING SAMPLE LAYOUT

A   D   B   L

Two Low Voltage wires for synchronization

32'

C

10'

Two coves linked together for
simultaneous synchronized operation.

12'

L   B

D

A   A

10'

Two Low Voltage wires for synchronization

8'

B   4'

8'   8'

A   4'   L   C

	DESCRIPTION	ITEM #
A	24V 96W Class II LED Driver	NATL-596
B	12" Power Line Interconnector (one included with each Tape Light roll)	NARGB-710
C	2" Interconnection Cable 6" Interconnection Cable 18" Interconnection Cable 36" Interconnection Cable 72" Interconnection Cable	NARGB-702 NARGB-706 NARGB-718 NARGB-736 NARGB-772
D	RGB Controller	NARGB-760
L	RGB LED Tape Light Roll (Disconnect every 12" or can be cut every 6", contains (16) 12" segments)	NUTP3-16LEDRGB

*Important - Consult Spec Sheets at www.noralighting.com
for Limitations on Wet and Damp Location Applications.*

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LED TAPE LIGHT
24V DAMP LABEL RGBW COLOR CHANGING

4" Section
12" Section
16' Section

H: 1/16"
W: 9/16"
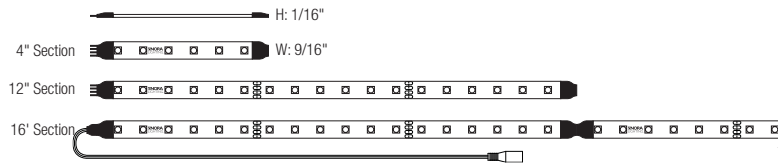
NEW!

FEATURES:

· 350 Lumens per foot
· Available in 90+ CRI
· 192 LEDs / 36W per roll - 12 LEDs / 5W per ft.
· 24V DC, 5-wire System
· Color Changing tape with sepearte 30K diode with hand held remote control
· Synchronizable
· 120° Beam Angle
· No soldering or additional wiring required
· Separable every 6" - easily disconnected and connected without soldering
· Field cuttable every 6" or 6 LEDs
· 10' single run maximum
· Dimmable Remote Hardwire Drivers, up to 300W
· Easy to install with pre-applied 3M™ tape or clips
· Title 24 Compliant
· cETLus Listed and IP44 Rated for Damp* location

RGBW COLOR CHANGING LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LABEL	COLOR TEMP
NUTP11-W10RGBW	10' Roll	White	24V	Damp	Color Changing RGB with separate 30K diode
NUTP11-WRGBW/12	12" Section	White	24V	Damp	
NUTP11-WRGBW/6	6" Section	White	24V	Damp	

*Example: **NUTP101-W10RGBW**- 24V RGBW Color Changing LED Tape Light Roll*

10 Tape Rolls include sixteen 12" sections. 12" and 6" Tape sections contain male/female ends.
*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

Nora's RGBW tape takes the existing RGB (Red, Green, Blue) tape and adds a separate 30K diode for quality usable white light. The RGBW tape consumes 5 watts per foot with a bright 2.5 watts dedicated to the 30K chip and 2.5 watts dedicated to the RGB chip. The RGBW offers the flexibility to create pastel colors using the RGB at the same time as the white, as well as producing a high quality white light when needed, and the ability to change to RGB and color changing when the mode or application changes. The 5-wire system has a dedicated RF controller allowing flexibility during installation and a hand-held control with multiple functions.

CONSTRUCTION: The silicone encapsulated tape is separable every 12", and can be cut every 6 LEDs at marked 6" intervals. Cutting does not effect circuit.

MOUNTING: Each Tape Light roll comes with with pre-applied 3M™ adhesive tape and 15 clear acrylic clips for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II, and Hardwire Dimmable Class II Drivers up to 300 Watts.

ELECTRICAL:
Power: 24V DC Input / 5 Watts Per Foot
Light Source: 18 High Output LEDs Per Foot
Operating Temp: -25°C to 60°C (-13° F to 140° F)
Life Expectancy: 50,000 Hours
Maximum Run Length: 10'

INCLUDED WITH EVERY HIGH OUTPUT TAPE LIGHT ROLL: Each Tape Light purchased includes a 12" power line connector [NARGBW-910], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 10' tape consisting of (10) 12" sections.

LISTINGS:
cULus Listed for Damp* Location
IP44 Rated
Consult spec sheet for current T24 status

WARRANTY:
3 Year Limited Warranty

LIGHTING TIP

RGBW LED Tape allows the user to select a beautiful bright 30K light for everyday use and then choose colors for special occasions.

LED TAPE LIGHT
RGBW COLOR CHANGING ACCESSORIES

NEW!

RGBW 204G Full Color RF Controller

NARGBW-960

360W Max. A controller is required for each RGB LED Tape Light run. Installs between the driver and the power line interconnector. The controller can be used to toggle between colors or changing modes.

NEW!

RGBW Controller Hand Held Remote

NARGBW-961

Up to 22' away. Must be in direct view line of RGB controller to work correctly. Used to program RGB Tape Light run to certain color configurations.
Key Selections: Brightness, Colors, Color Changing - Flash, Strobe, Fade and Smooth Fade, On/Off

Y Splitter Cable

NARGBW-900

Allows splitting the RGB Tape light from a run or driver, into two separate runs.
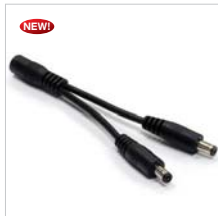
X Splitter Cable

NARGBW-901

Description: Allows splitting the RGB Tape light from a run or driver, into three separate runs.

Interconnection Cables

NARGBW-902	2" Cable
NARGBW-906	6" Cable
NARGBW-918	18" Cable
NARGBW-936	36" Cable
NARGBW-972	72" Cable

Allows easy linking of 2 RGBW Tape Lights sections. Cables are flexible and can be moved in any direction, or be joined together for custom lengths.

NEW!

24V Power Line Splitter

NATL-302   5" Cable

One split into two lines.

Power Line Interconnector

NARGBW-910   12" Cable

Connects an RGBW controller. *Note: (1) NARGBW-910 is included with every RGBW Tape Light roll. Use interconnection cables to increase length.*

Power Line Connector

NALTL-10	10' Cable
NALTL-30	30' Cable

For use with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Controller Power Line Connector

NARGBW-962	10'
NARGBW-963	30'

Replaces included 9-1/2" input wire, to allow for 30' or less length between controller and LED Driver.

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage lead to low voltage power line connector or interconnector.

Hardwired Class II El. Driver Non-Dimmable

NAPK-530HW/12	12V 30W
NAPK-560HW/12	12V 60W
NATL-530HW	24V 30W
NATL-560HW	24V 60W

Voltage: 12V or 24V DC
Cable Length: 3-1/4"
Input Wire: 4"
*Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run.

Direct Plug-In Elect. Driver Non-Dimmalbe

NAPK-524/12	12V 24W
NATL-524	24V 24W
NATL-545	24V 45W

Voltage: 12V or 24V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Tape Light run.

Class II Hardwire Magnetic Driver Non-Dim

NMT-244/12C2D1*	4x60W
NTM-303/24C2D1	3x100W

Voltage: 12V & 24V DC
***Includes:** (4) 10' Power Line Connectors (30'ordered separately)

24V Class II Electronic LED Driver Non-Dimmable

NATL-5060HW	60W
NATL-5100HW	100W

Includes hardwire box and 10' Power Line Connector

12V & 24V Class II Hardwire Magnetic Driver Non-Dimmable

NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W

Voltage: 12V & 24V DC
***Includes:** (3) 10' Power Line Connectors (30'ordered separately)

NORA | NSPEC®

Flexible Extension Cord

NRA-125/6   6" Cable
NRA-125/12   12" Cable
NRA-125/18   18" Cable
NRA-125/72   72" Cable

Extends length between NUSP-JBox and NAPK-530HW/12, NAPK-560HW/12, NATL-530HW & NATL-560HW. Can be joined together to create custom lengths.

Flexible Power Cord

NRA-6035W/6   6' Cable
NRA-6035W/10   10' Cable

Converts NAPK-530HW/12, NAPK-560HW/12, NATL-530HW and NATL-560HW into a direct plug-in driver.

Shrink Wrap Tube

NATL-400   Pack of 5

Seals connection made in the field. Necessary to maintain ETL Wet Listing. Two shrink wrap tubes are included with every Tape Light roll and section.

12V & 24V End Cap

NATL-403

Covers open end of RGB Tape Light.

Clear Acrylic Mounting Clips

NATHR-685   Pack of 15

Use in conjunction with adhesive backing to attach Tape Light to a surface. Pack of 15 clear acrylic mounting clips are included with every RGB Tape Light roll.

4' Shallow Aluminum Channel

NATL-C23   with Wing
NATL-C24

Plastic diffuser and End caps included. Field cuttable

4' Deep Aluminum Channels

NATL-C25   with Wing
NATL-C26

Plastic diffuser and End caps included. Field cuttable

4' J-Style Aluminum Channels

NATL-C27

Field cuttable

4' Corner Aluminum Channel

NATL-C28

Plastic diffuser and End caps included. Field cuttable
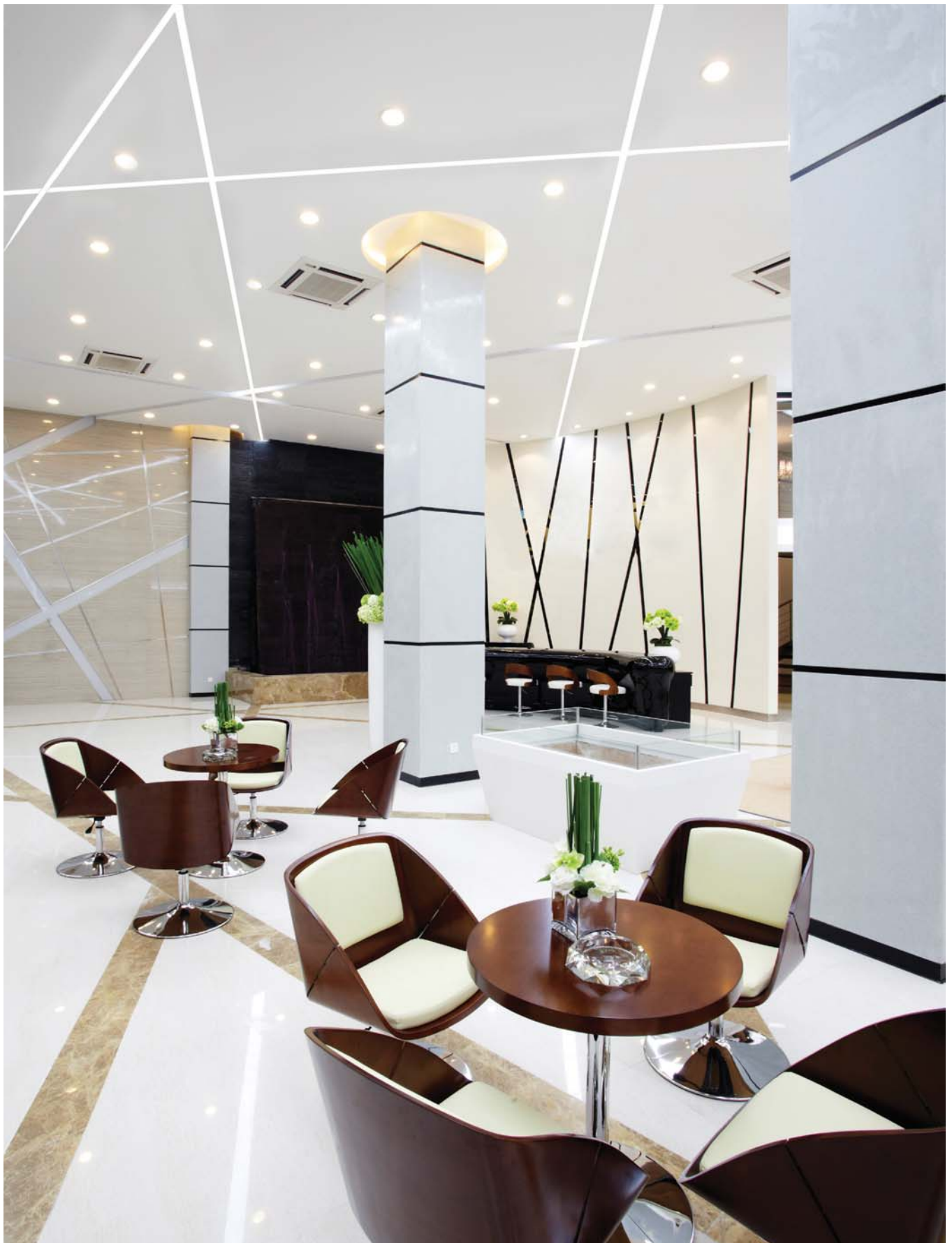
4' Aluminum Channel

NATHR-680

Can be use with NAL-201, NAL-245 or NAL-280 mounting clips. Field cuttable

*Note: Each RGB Tape Light run requires a driver, controller, power line interconnector and tape. To accomplish the RGB color changing, you must use the RGB controller between the Driver and the RGB tape.

LED CONTINUOUS ROLL TAPE LIGHT
24V DAMP LABEL STANDARD / HY-BRITE / HIGH OUTPUT

H: 1/16"

4" Section

W: 9/16"

12" Section

16' Section
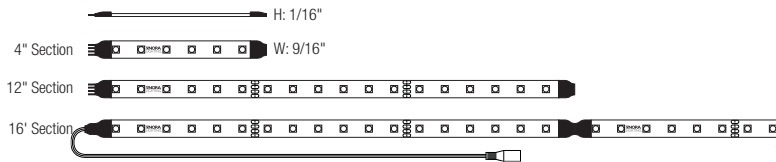
24V CONTINUOUS ROLL LED TAPE LIGHT

CATALOG NO.	LENGTH	TAPE COLOR	VOLT	LUMEN/W/FT	CRI	MAX RUN	LABEL	COLOR TEMP	
NUTP51-W100LED	100'	White	24V	210/2.7W	90+	32	Damp	**927**	2700K
NUTP71-W100LED	100'	White	24V	80/1.3W	90+	32	Damp	**930**	3000K
NUTP81-W100LED	100'	White	24V	310/4.3W	90+	20	Damp	**942**	4200K

Example: **NUTP71-W100LED930**- *24V 100' Roll White Tape (cuttable every 4" with max run of 32'), 90+ CRI, 3000K*

*Important - Consult Spec Sheets at www.noralighting.com for Limitations on Damp Location applications.

FEATURES:

· Continuous 100' rolls
· 24V DC System
· Available in three outputs
· Available in three Kelvin Temperatures
· Dedicated Flip type connectors
· Field Cutable every 4"
· Pre-applied 3M tape
· No soldering
· Maximum single runs:
    NUTP51 - 32 Feet
    NUTP71 - 32 Feet
    NUTP81 - 20 Feet
· Dimmable with dimmable power supply
· cULus Listed IP44 for Damp Location
· cETLus Listed and IP44 Rated for Damp* location

Nora's Continuous LED Tape provides even illumination on long runs of LED tape. The Continuous Tape is excellent in coves, under cabinet, in-cabinet, toe kicks, or other architectural featuresas well as for use in Nora Channels. The continuous tape uses dedicated flip-type connectors that eliminate waste on job applications. The connectors simply snap into place over the exposed copper conductors after tape is cut. A wide array of installation accessories are available, making the Continuous Tape perfect for large and small jobs.

MOUNTING: Each Continuous Tape Light roll comes with with pre-applied 3M™ adhesive tape and 50 clear acrylic clips for simple installation.

DRIVER: A wide variety of drivers are available from direct plug-ins, Class II and hardwire dimmable Class II drivers up to 300W and Switchex driver/dimmers.

ELECTRICAL:
Power: 24V DC Input / 1.3 to 4.3 Watts Per Foot
Light Source: 18 High Output LEDs Per Foot
Operating Temp: -25˚C to 60˚C (-13˚ F to 140˚ F)
Life Expectancy: 50,000 Hours
Maximum Run Length: 10'

INCLUDED WITH EVERY CONTINUOUS TAPE
LIGHT ROLL: 100' of Tape with connected 12" DC power connector. 50 clear clips, pre-applied 3M adhesive.

LISTINGS:
cULus Listed for Damp* Location
IP44 Rated
Consult spec sheet for current T24 status

WARRANTY:
3 Year Limited Warranty

LED TAPE LIGHT
CONTINUOUS WHITE TAPE LIGHT ACCESSORIES

Flip-Type Link Connector

NATLCFC-600	12mm

Flip-Type Interconnection Cable

NATLCFC-601	1"
NATLCFC-603	3"
NATLCFC-606	6"
NATLCFC-612	12"
NATLCFC-624	24"
NATLCFC-648	48"
NATLCFC-672	72"

Links two pieces of NUTP51 tape.

Flip-Type Splice Connector

NATLCFC-608/3	3"
NATLCFC-608/12	12"
NATLCFC-608/48	48"
NATLCFC-608/96	96"

Flip connector for NUTP51 to power or joinging tape (no DC plug).

Flip-Type DC Plug Connector Cable

NATLCFC-609/3	3"
NATLCFC-609/12	12"
NATLCFC-609/48	48"
NATLCFC-609/96	96"

Flip connector for NUTP51 to power or joinging tape with DC plug.

24V Power Line Splitter

NATL-302	5" Cable

One split into two lines

Power Line Connector

NALTL-10	10' Cable
NALTL-30	30' Cable

Used with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Clear Acrylic Mounting Clips

NATHR-685	Pack of 15

Use in conjunction with adhesive backing to attach Tape Light to a surface. Pack of 15 clear acrylic mounting clips are included with every RGB Tape Light roll.

In-Line Touch Dimmer

NATL-518

72W max., no power fail memory, touch on/off and hold to dim.

Nora SWITCHEX® All-in-One LED Driver and Dimmer

NATL-SWEX100/24
 24V 100W

Converts 120 VAC to low voltage DC in a standard electrical box. Includes face plate.

12V & 24V Class II Hardwire Magnetic Driver Dimmable

NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W
NTM-303/24C2D1	3x100W

Voltage: 12V & 24V DC
*Includes: (3) 10' Power Line Connectors (30'ordered separately)

Hardwired Class II El. Driver Non-Dimmable

NATL-530HW	24V 30W
NATL-560HW	24V 60W

Voltage: 24V DC
Cable Length: 3-1/4"
Input Wire: 4"
*Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run.

Direct Plug-In Elect. Driver Non-Dimmable

NATL-524	24V 24W
NATL-545	24V 45W

Voltage: 24V DC
Cable Length: 6 Feet
Requires: Power line interconnector cable to connect to Tape Light run.

Class II Electronic LED Driver Non-Dimmable

NATL-596	96W

Voltage: 24V DC
Input Wire: 5' Cord and Plug
Output Wire: 44" Out Wire

24V Class II Electronic LED Driver Non-Dimmable

NATL-5060HW	60W
NATL-5100HW	100W

Dimmable (0-10V)
NATL-5096-24HWD10	96W

Includes hardwire box and 10' Power Line Connector

In-Wall Rated Wire

NATL-W16-2-250	250
NATL-W16-2-20	20

16AWG low voltage Class II two-conductor, in-wall rated wire.

NORA | NSPEC®

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage lead to low voltage power line connector or interconnector.)

Junction Box for Hard Wiring

NUSP-JBox

Use with NATL-530HW, NATL-560HW or NATL-5100 Drivers. Capable of feeding two separate runs. Accepts Romex®

Flexible Extension Cord

NRA-125/6	6" Cable
NRA-125/12	12" Cable
NRA-125/18	18" Cable
NRA-125/72	72" Cable

Extends length between NUSP-JBox and NATL-530HW & NATL-560HW. Can be joined together to create custom lengths.

Flexible Power Cord

NRA-6035W/6 6' Cable
NRA-6035W/10 10' Cable

Converts NATL-530HW and NATL-560HW into a direct plug-in driver.

2' Wire Raceway

NATL-422

Field-cuttable plastic. Includes wire channel with double faced tape and cover. Black or White.

4' Aluminum Channel

NATHR-680

Can be use with NAL-201, NAL-245 or NAL-280 mounting clips. Field cuttable

4' Shallow Aluminum Channel

NATL-C23	with Wing
NATL-C24	

Plastic diffuser and End caps included. Field cuttable

4' Deep Aluminum Channels

NATL-C25	with Wing
NATL-C26	

Plastic diffuser and End caps included. Field cuttable

4' J-Style Aluminum Channels

NATL-C27

Field cuttable

4' Corner Aluminum Channel

NATL-C28

Plastic diffuser and End caps included. Field cuttable

J-Clip for Wire, White Plastic

NATL-404W   10/pk

Over the Wire Clip, White Plastic

NATL-405W   10/pk

Wire Clip for Wire, White Plastic

NATL-406W   10/pk

4-Way Terminal/Splitter Block
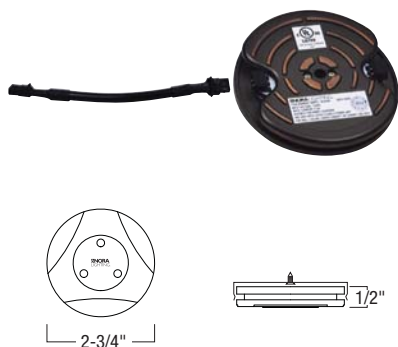
NATL-407

2.375"L x 1.125"W x 0.875"D

8-Way Terminal/Splitter Block

NATL-408

4"L x 1.125"W x 0.875"D

LED PUCK LIGHTS
12V LED PUCK LIGHT

2-3/4"

1/2"

FEATURES:

· Title 24 Compliant, energy efficient

· LEDs produce 70 lumens per watt
  (210 Lumens and 4.2 Watts per each unit)

· Available in single units or a three-puck kit

· Ten pucks can be daisy-chained on a single run

· 90' Maximum Distance

· Available in 3000K Warm White and 4200K
  Cool White

· Well suited for very small spaces: 1/2" deep
  with 2-3/4" diameter

· Easy installation using one screw

· 3", 6", 12", and 24" interconnectors included
  with each puck (can be linked together)

· New Series of Dimmable Remote Hardwire
  Drivers, up to 300 Watts

· RoHS compliant

· ETL and cETL listed for dry locations

· 30,000 hours of rated lamp life

· Surface mount with recessed housing accessory

12V LED PUCK LIGHT

CATALOG NO.	NO. OF LEDS	SOURCE	WATTAGE	COLOR TEMP	FINISH
NMPK1 Puck Light	**3** 3 LEDs	**LED** LED	4.2 W	**30** 3000K **42** 4200K	**BZ** Bronze **C** Chrome **W** White
NMPK2 (3) Puck Light Kit	**3** 3 LEDs (each puck)	**LED** LED	4.2 W each	**30** 3000K	**BZ** Bronze **C** Chrome **W** White

*Example: **NMPK1-3LED30BZ** - One LED Puck Light, 3 LEDs, 3000K, Bronze finish*

Nora Lighting's slim LED Puck Light system is ideal for accent, under cabinet, in cabinet, display cases, niche, furniture, jewelry cases, and other applications with limited space. These low-profile fixtures can be linked together to provide excellent and even illumination on all surfaces. The Nora LED Puck Light is one of the most energy efficient products in the market. Combined with ultra low-profile housing, Nora's LED Puck offers unique features and a great ease of installation. LED technology eliminates forward heat from the fixture, also no UV or infrared rays to harm artwork, retail displays or heat sensitive foods.

HOUSING: Die-cast aluminum, round, available in 3 different colors with matching interconnectors: white and chrome (both with white), and bronze (with black).

PUCK LIGHT: Each LED Puck Light includes one each of 3", 6", 12", & 24" interconnection cables.

PUCK LIGHT KIT: LED Puck Light Kit is a complete package ready from the box. Includes (3) 3000K LED Puck Lights, three sets of 3", 6", 12", & 24" interconnection cables, coupler.
(1) 12" Power Line Interconnector with switch, (3) mounting clips and (1) 24W Direct Plug-In Driver.

COLOR TEMPERATURES:
Warm White (3000K) or Cool White (4200K)

FINISHES:
Bronze (BZ), Brushed Chrome (C), or White (W)

ELECTRICAL:
Voltage: 12 Volt
Input Watts: 4.2W (1.4W per LED)
Lumens at 4200K: 210 lumens
Efficacy at 4200K: 70 lumens per watt
Number of LEDs: 3 per puck
Maximum Distance: 90' (10 LED Puck Lights max.)
Estimated Life: 30,000 hours

LISTINGS:
cULus and cETL Listed for Dry Location
RoHS Compliant
3 Year Limited Warranty

LED PUCK LIGHTS ACCENT, UNDER CABINET, LINEAR, COVE LIGHTING
12V LED PUCK LIGHT ACCESSORIES

Splitter

NAPK-701B	Black
NAPK-701W	White

Description: To separate 4 puck light runs from a single driver or to split a run between puck lights. One in and four out.

Interconnection Cable

NAPK-702	2"	Cable
NAPK-703	3"	Cable
NAPK-706	6"	Cable
NAPK-712	12"	Cable
NAPK-724	24"	Cable
NAPK-736	36"	Cable
NAPK-748	48"	Cable

Finish: Black (B), White (W)
Allows easy linking of two pucks.

Mini Coupler

NAPK-713B	Black
NAPK-713W	White

Used to connect two interconnection cables together or to add interconnection cable to power line interconnector.
Dim.: 3/8" W; 3/4" L; 1/4" H

12" Power Line Interconnector with Switch

NAPK-711B	Black
NAPK-711W	White

Allows individual switching of any LED Puck Light run.

18" Power Line Interconnector

NAPK-709B	Black
NAPK-709W	White

Connects puck light to a driver.

Recessed Housing Accessory

NMPKA-REC(finish)

Finish: Bronze (BZ), Chrome (C), White (W)

12V Dimmable Class II Remote Hardwire Magnetic Driver with Integral Regulator for Constant Current and Voltage

NMTD-40/12D*	40W
NMTD-60/12D*	60W

Voltage: 24V DC
Input Voltage: 120/277 DC
Includes: 10' Power Line Connector
*(4) 10' Power Line Connectors

12V Dimmable Class II Hardwire Magnetic Driver with Integral Regulator for Constant Current and Voltage

NMT-244/12C2D1	4x60W
NATL-5060-12-HWD10	60W

Voltage: 12V DC (0-10V Dim)
Includes: 10' Power Line Connector (30' ordered separately)

Power Line Connector

NAPK-10	10' Cable
NAPK-30	30' Cable

For use with NMT Series Class II LED Driver. Replaces included 10' lead wire, to allow for 30' or less length between run and LED Driver.

Low Voltage Splice Box

NATL-415W

Finish: White
Joins Romex® low voltage lead to low voltage power line connector or interconnector.

Hardwired Class II El. Driver

NAPK-530HW/12	30W
NAPK-560HW/12	60W

Voltage: 12V
Cable Length: 3-1/4"
Input Wire: 4"
Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Puck Light run.

Direct Plug-In El. Driver

NAPK-550/12	50W

Input Wire: 60"

NAPK-524/12	24W

Voltage: 12V
Cord and Plug: 6 Feet
Requires: Power line interconnector cable to connect to Puck Light run.

Junction Box for Hard Wiring

NUSP-JBox

For use with NAPK-530HW/12 or NAPK-560HW/12. Capable of feeding two separate runs. Accepts Romex®

Flexible Extension Cord

NRA-125/6	6"	Cable
NRA-125/12	12"	Cable
NRA-125/18	18"	Cable
NRA-125/72	72"	Cable

Extends length between NUSP-JBox and NAPK-530HW/12 or NAPK-560HW/12. Can be joined together to create custom lengths.

Flexible Power Cord

NRA-6035W/6	6'	Cable
NRA-6035W/10	10'	Cable

Converts NAPK-530HW/12 or NAPK-560HW/12 into a direct plug-in driver.

2' Wire Raceway

NATL-422

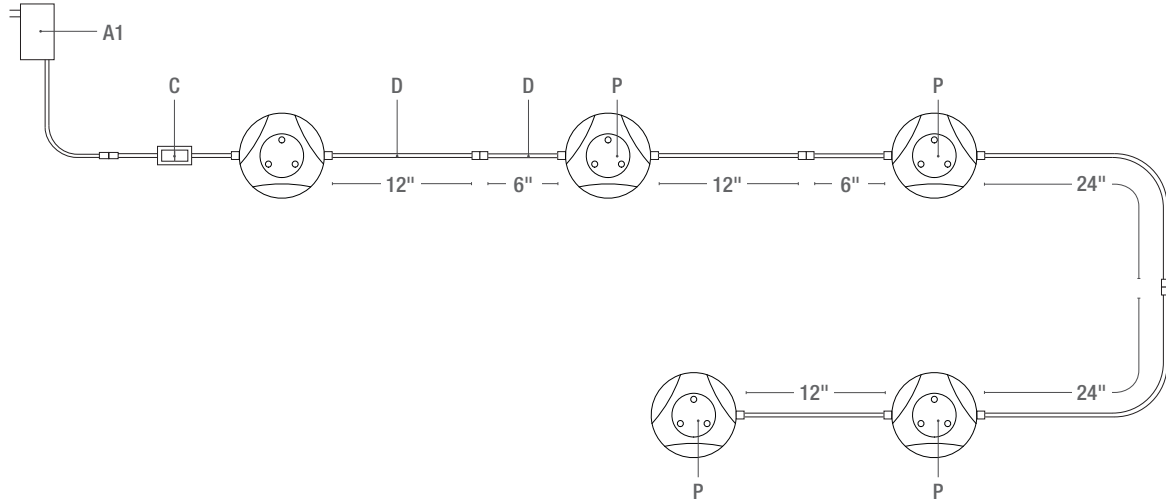Field-cuttable plastic. Includes wire channel with double faced tape and cover. Black or White.
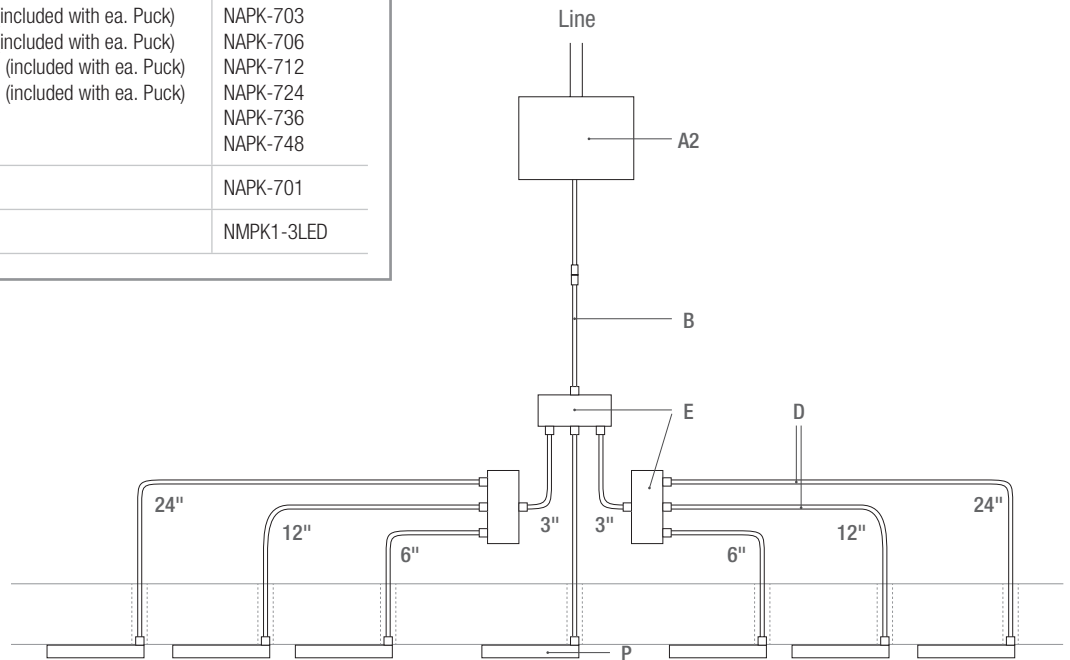
SWITCHEX® All-in-One LED Driver and Dimmer

NATL-SWEX60/12	12V 60W

Converts 120 VAC to low voltage DC in a standard electrical box. Includes face plate.

	DESCRIPTION	ITEM #
A1	12V Direct Plug-In Driver	NAPK-524/12
A2	12V 60W Dimmable Class II Power Supply	NMT-60/12C2D1
B	18" Power Line Interconnector	NAPK-702
C	18" Power Line Interconnector with Switch	NAPK-703
D	2" Interconnection Cable 3" Interconnection Cable (included with ea. Puck) 6" Interconnection Cable (included with ea. Puck) 12" Interconnection Cable (included with ea. Puck) 24" Interconnection Cable (included with ea. Puck) 36" Interconnection Cable 48" Interconnection Cable	NAPK-702 NAPK-703 NAPK-706 NAPK-712 NAPK-724 NAPK-736 NAPK-748
E	Splitter	NAPK-701
P	LED Puck Light	NMPK1-3LED

NORA SWITCHEX®
LED DRIVER AND DIMMER ALL-IN-ONE

SWITCHEX®
with Decora Plate
by others

NATL-5060-

Glossy Dark Brown, Glossy LIght Almond and Glossy White
face plates included with each Nora SWITCHEX

Wall Box
(Sold Seperately)

SWITCHEX®

Trim Plate
(Sold Seperately)

NORA SWITCHEX LED DRIVER AND DIMMER

CATALOG NO.	WATTAGE / VOLTAGE
NATL-SWEX	**60/12** 60W, 12V
	100/24 100W, 24V

*Example: **NATL-SWEX60/12**- 60W/12V LED Driver and Dimmer all-in-one.*

Nora/NSpec® is proud to present the next generation of LED dimming with SWITCHEX, an all-in-one LED driver and dimmer. SWITCHEX eliminates compatibility issues by combining an LED dimmer switch and power supply in one integrated unit. SWITCHEX mounts in a standard in-wall switch box and fits a standard Decora switch plate. The unit is available in 12V 60W or 24V 100W, provides 100% to 5% dimming, converts 120V AC to DC low voltage. White, brown and almond face plates are included with each unit. Switchex is compatible with Nora LED Tape, LED Lightbar, LED Puck and LED Flex Lights.

NORA COMPATIBLE LED PRDUCTS

· Standard Wet and Damp Tape

· Hy-Brite Tape

· LED Lightbar

· LED Puck

· Standard Side-Lit Tape

· High Output Tape

· LED Lightbar

· LED Flex Light

FEATURES

· First LED Driver and In-Wall Dimmer Switch in one integrated unit

· Simplifies LED installation by eliminating compatibility issues between driver and dimmer

· Fits in a standard recessed electrical box

· 100% - 5% smooth dimming

· No minimum load

· Single pole preset dimmer with on/off push switch

· Adjustable voltage output dial addresses voltage drop

· Includes voltage barrier partition to install high and low voltage circuit in same switch box

· No derating required when ganging units

· Power failure memory: If power is interrupted, SWITCHEX® will return to setting prior to interruption

· Includes three face plates: Glossy White, Glossy Light Almond, and Glossy Dark Brown (Decora trim plates not included)

NORA | NSPEC®

SPECIALTY DRIVERS
LED LIGHTBARS · LED TAPE LIGHT · LED PUCK LIGHTS

Dimmable Class II Hardwire Magnetic Driver

NMT-244/12C2D1*	12V 4x 60W
NMT-303/24C2D1**	24V 3x 100W

12V DC / 24V DC

Width: 2-1/2" x Length: 6-5/8" x Height: 2-3/8"

Includes: 10' power line connector.
(optional 30' power line connector ordered separately)

***Includes:** (4) 10' power line connectors.

****Includes:** (3) 10' power line connectors.

Dimmable with Magnetic Low Voltage Dimmer

NEW!

Dimmable Class II Hardwire Magnetic Driver

NMTD-40/12D	12V 40W
NMTD-60/12D	12V 60W
NMTD-60/24D	24V 60W
NMTD-96/24D	24V 96W

12V DC / 24V DC

Input Voltage: 120/277V

Width: 3" x Length: 14-1/4" x Height: 2-7/8"

Includes: 10' power line connector.
(optional 30' power line connector ordered separately)

Dimmable with Magnetic Low Volt Dimmer

Class II Hardwire Electronic Driver

NATL-5100HW Non-Dimmable		24V 100W
NATL-5060HW Non-Dimmable		24V 60W
NATL-5096-24HWD10 Dimmable 0-10V	24V 96W
NATL-5060-12HWD10 Dimmable 0-10V	12V 60W

100W 24V AC

Width: 3-3/8" x Length: 11-1/4" x Height: 3-1/4"

Includes: driver, hardwire box and 10' power line connector.

Class II Electronic Driver Hardwire or Cord & Plug (Non-Dimmable)

NAPK-530HW/12	120V/12V 30W
NAPK-560HW/12	120V/12V 60W
NATL-530HW	120V/24V 30W
NATL-560HW	120V/24V 60W

Width: 1-3/4" x Length: 5-5/8" x Height: 1-1/4"

Power Line Connector: 3-1/4"

Input Wire: 4"

Requires: NUSP-JBox for hardwire or NRA-6035 for plug in application; Power line interconnector cable to connect to Tape Light run

Class II Direct Plug-In Driver (Non-Dimmable)

NAPK-524/12	12V 24W
NATL-524	24V 24W
NATL-545	24V 45W

12V or 24V DC

Input Cord Length: 4 Feet (NAPK-524/12);
6 Feet (NATL-524, NATL-545)

Plug-In LED Driver (Non-Dimmable)

NATL-596	24V DC 96W

Width: 2-1/4" x Length: 5-1/2" x Height: 1-1/4"

Power Line Connector: 44"

Cord and Plug length: 55"

Class II Plug-In Driver (Non-Dimmable)

NAPK-550/12	12V DC 50W

Power Cord Length: 6 Feet
Input Cord Length: 5 Feet

All LED Drivers require Power Line Interconnector to power systems.

LED Track Lighting

ARCHITECTURAL AND RESIDENTIAL

Nora's single and two circuit line voltage track is rated to handle up to 2400W on single circuit and 4800W on the two circuit, making our track very versatile in the architectural and residential applications. Nora's selection of LED track heads includes both integral driver units and heads with specifiable LED lamps. The track heads can be used with new or existing Nora track or can be specified with "L" or "J" adapters for retrofitting existing "L" or "J" style track. Nora's collection of LED Track heads combined with Nora current limiting power feeds can meet the toughest energy codes or requirements.

LED FIXTURE FEATURES

· Flex Beam adjustable beam track fixture
· Four integral driver styles - Aiden, Cori, Pillar and Robo. Ranging from 9 to 35 Watts.
· New"Complete Package" Track Heads with specifiable LED lamps.
· "J" and "L" style track fixtures

NORA TRACK FEATURES

· Track available in five finishes
· All Nora track fixtures are available in "H" style and can be used with 1 or 2-circuit track
· Lamps Sources - LED, HID Ceramic Metal Halide, Compact Fluorescent, T5 HO Fluorescent, GU24 Fluorescent, Low Voltage, GU10 Line Votlage Halogen, Line Voltage
· Complete selection of track connectors and accessories
· 2-circuit and single circuit available
· Field cuttable
· Meets watts per square requirements with Nora's Current Limiting Power Feeds

REVO
REVOLUTION IN LIGHT

CONVENIENT. SIMPLE. AFFORDABLE.

REMOTE CONTROL

Revo Remote Control PAR Track Fixture

NTH-REV150(Finish)(Lamp)(Style)	90W MAX
NTH-REVHHR	REMOTE CONTROL

FEATURES:	Motorized track fixture adjusted with a hand-held remote
CONSTRUCT:	Die-cast aluminum with integral motor
FINISH:	**B** Black, **W** White
LAMP:	(Blank) No Lamp
	A22, **A23**, **A36**, **A37**, **A82**, **A83**, **A84**, **A85**, **E20**, **E21**, **E82**, **E83**, **E84**, **E85**
	Note: Fixture will not work short neck PAR30
STYLE:	(Blank) H-style, **J** J-style, **L** L-style
ADJUST:	200˚ Horizontal and 340˚ Vertical rotation
DIMENSIONS:	Diameter: 4-3/4" Width: 5" Length: 4-1/4" Max Ext: 4-3/4"
ELECTRICAL:	120V - Dimmable
WARRANTY:	Five year limited warranty

PATENTED TECHNOLOGY
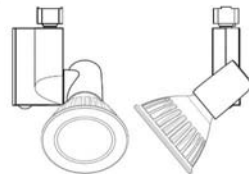
NTH-REVHHR
one remote control transmitter controls all models

Adjust track lighting from below…without a ladder!
According to OSHA, ladders are the single leading cause of occupational injury.

NSpec introduces REVO, the industry's first affordable motorized track head that can be adjusted with a hand-held remote. A single REVO remote can re-position any REVO track head in an installation. Once a fixture is selected, radio signals control the fixture so there is no need to aim the transmitter during adjustments. REVO heads can be rotated horizontally (340º rotation) or vertically (200º rotation). REVO features a universal E26 lamp socket that accepts LED, halogen CFL, R, BR and PAR bulbs. The unit is designed for use in retail stores, art galleries, hospitality or event venues, and any other high-ceilinged site where track heads need to be maneuvered. REVO is one- or two-circuit track compatible and available in H, J and L styles. It is dimmable to 10 percent, and adjustable when dimmed. Finishes are offered in black and white.

ADVANTAGES:

· Save time, money and fatigue. Achieve in minutes what used to take hours

· Create a safer work environment. According to OSHA, falls from portable ladders are one of the leading causes of occupational fatalities and injuries

· Change displays frequently and increase sales through visual interest

· No longer settle for improperly aimed lighting because:
  - You need to rent a scissor-lift
  - You don't own a 16' foot ladder
  - You need a maintenance crew

· Easy to retrofit - no programming or special installation is required

A22* LED 8W 2700K PAR20 365 Lumens, 25˚	**A83*** LED 20W 3000K PAR38 1200 Lumens, 25˚	**E30*** LED 12W 2700K PAR30 740 Lumens, 20˚	**E83*** LED 20W 3000K PAR38 1100 Lumens, 25˚
A23* LED 8W 3000K PAR20 380 Lumens, 25˚	**A84*** LED 20W 2700K PAR38 1150 Lumens, 40˚	**E31*** LED 12W 3000K PAR30 750 Lumens, 20˚	**E84*** LED 20W 2700K PAR38 1000 Lumens, 40˚
A36* LED 13W 2700K PAR30 680 Lumens, 40˚	**A85*** LED 20W 3000K PAR38 1200 Lumens, 40˚	**E32*** LED 12W 2700K PAR30 740 Lumens, 35˚	**E85*** LED 20W 3000K PAR38 1100 Lumens, 40˚
A37* LED 13W 3000K PAR30 700 Lumens, 40˚	**E20*** LED 7W 2700K PAR20 300 Lumens, 20˚	**E33*** LED 12W 3000K PAR30 750 Lumens, 35˚	
A82* LED 20W 2700K PAR38 1150 Lumens, 25˚	**E21*** LED 7W 3000K PAR20 300 Lumens, 20˚	**E82*** LED 20W 2700K PAR38 1000 Lumens, 25˚	** Dimmable*

NORA | NSPEC®

T-Wash Wall Wash LED Track Fixture

NTE-890 Series   33W / 66W MAX

FEATURES:	33W 12" Yoke or 66W 24" Arm mount
CONSTRUCTION:	Die-cast aluminum with integral driver
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H, J, or L Style
DIMENSIONS:	Width: 4-1/2" Length: 12" or 24" Maximum Extension: 5"
ELECTRICAL:	120V - Dimmable
LISTING:	cULus listed
WARRANTY:	3-Year limited warranty
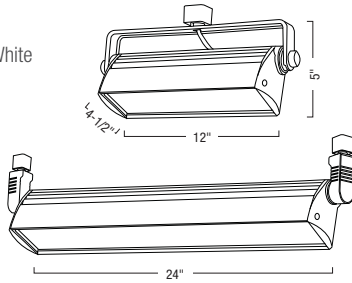
Available in two styles:
12" Yoke or 24" Arm Mount

T-WASH LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	WATTAGE	FINISH	STYLE
NTE-890	**L** LED	**30** 3000K **40** 4000K	**33** 33W **66** 66W	**B** Black **S** Silver **W** White	**(blank)** H-Style **/J** J-Style **/L** L-Style

Order Example: **NTE-890L3033W/J** *- T-Wash LED Track Fixture, 3000 Kelvin, 33 Watts, White Finish, "J" compatible adapter*
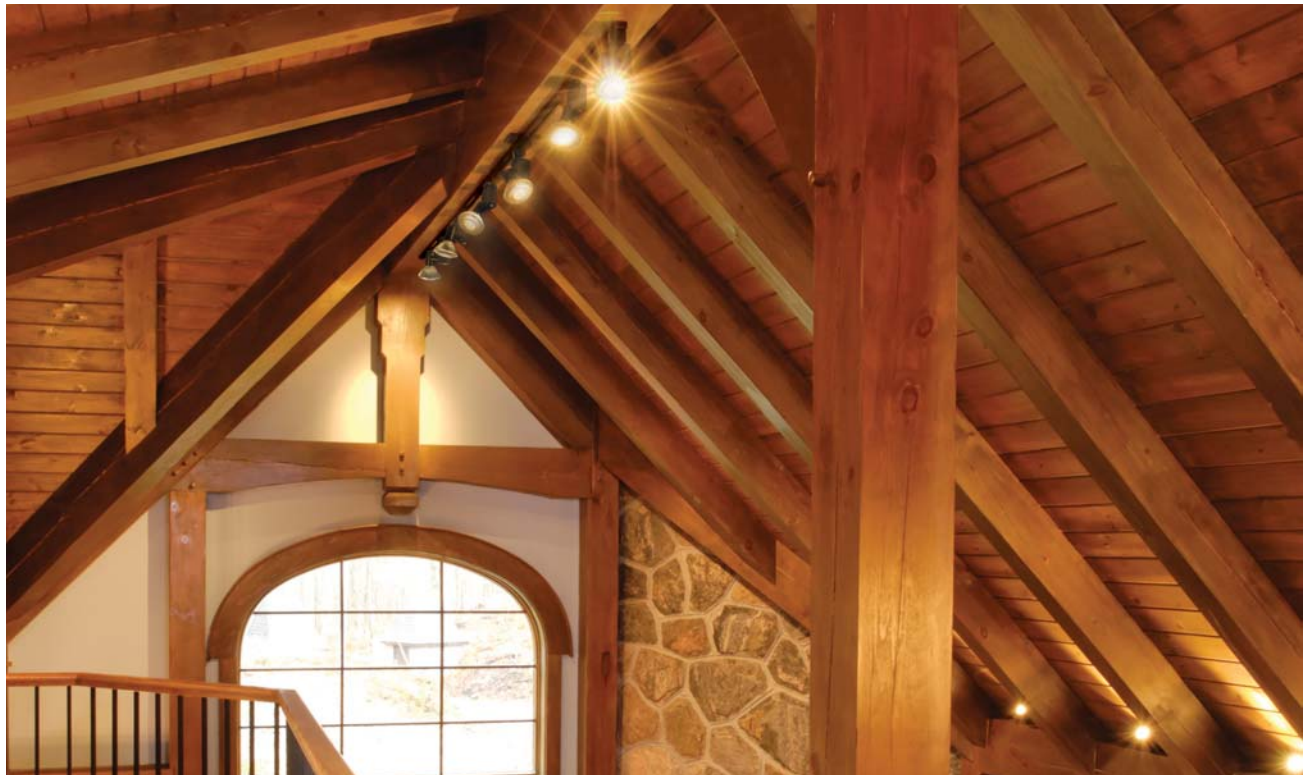
LED TRACK FIXTURES H, J AND L STYLE ADAPTERS

NTE-842

Aiden 35W Vertical High Lumen LED Track Fixture

NTE-842 Series   35W MAX, 2300 LUMEN

FEATURES:	35W, 2300 Lumens, 80+ CRI
CONSTRUCTION:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	**X** 19º Spot or 38˚ Flood
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H or J style
DIMENSIONS:	Width: 6-3/4" Length: 6-1/4" Diameter: 3-5/8" Maximum Extension: 7-5/8"
ADJUSTABILITY:	350˚ Horizontal and 90˚ Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	3-Year limited warranty

7-5/8"
5-1/4"
3-5/8"
6-3/4"
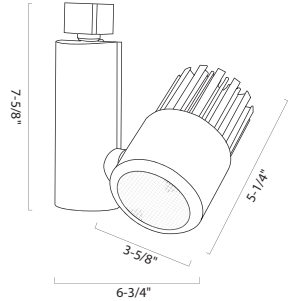
AIDEN VERTICAL LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-842	**L** LED	**30** 3000K **40** 4000K	**X** 19˚ Spot / 38º Flood	**35** 35W	**B** Black **S** Silver **W** White	**(blank)** H-style **/J** J-style **/L** L-style

Order Example: **NTE-842L30X35B** *- Aiden 35W LED Track, 3000K, 19˚ Spot, Black finish, (H-Style)*

c UL us LISTED   committed to GREEN

NEW!

NTE-845

Aiden 15W Vertical High Lumen LED Track Fixture

NTE-845 Series   15W MAX, 1100 LUMEN

FEATURES:	15W, 1150 Lumens, 80+ CRI
CONSTRUCTION:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	**X** 18˚ Spot or 38˚ Flood
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H or J style
DIMENSIONS:	Width: 5" Length: 6" Diameter: 2-3/4" Maximum Extension: 6-1/4"
ADJUSTABILITY:	350˚ Horizontal and 90˚ Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	3-Year limited warranty

6-1/4"
6"
2-3/4"
5"
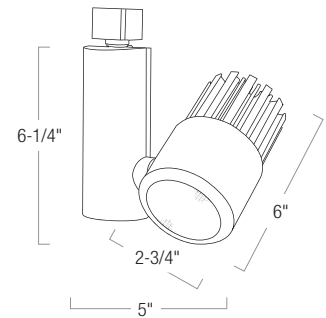
AIDEN VERTICAL LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-845	**L** LED	**30** 3000K **40** 4000K	**X** 18˚ Spot / 38º Flood	**15** 15W	**B** Black **S** Silver **W** White	**(blank)** H-style **/J** J-style **/L** L-style

Order Example: **NTE-845L30X35B** *- Aiden 15W LED Track, 3000K, 18˚ Spot, Black finish, (H-Style)*

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Aiden 10W Horizontal High Lumen LED Track Fixture

NTE-850 Series

10W MAX, 700 LUMEN

FEATURES:	10W, 700 Lumens, 80+ CRI
CONSTRUCTION:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	**X** 19˚ Spot or 38˚ Flood
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H or J style
DIMENSIONS:	Width: 4-1/8" Length: 5-1/2" Diameter: 1-7/8" Maximum Extension: 4-1/8"
ADJUSTABILITY:	350˚ Horizontal and 90˚ Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	3-Year limited warranty

NEW!

NTE-850

4-1/8"
5-1/2"
1-7/8"
4-1/8"
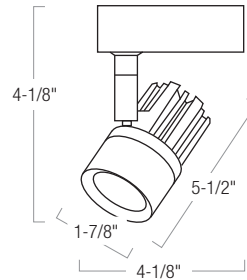
AIDEN HORIZONTAL LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-850	**L** LED	**30** 3000K **40** 4000K	**X** 19˚ Spot / 38º Flood	**10** 10W	**B** Black **S** Silver **W** White	**(blank)** H-style **/J** J-style

Order Example: **NTE-850L40X10B** - Aiden 10W LED Track, 4000K, 24˚ Spot, Black finish, (H-Style)

committed to
GREEN

LED TRACK FIXTURES H, J AND L STYLE ADAPTERS

Pillar 18W LED Track Fixture

NTE-810 Series   18W MAX

FEATURES:	Up to 1560 lumens, 80+ CRI
CONSTRUCTION:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	**X** 20˚ Spot or 30˚ Flood
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H, J, or L style
DIMENSIONS:	Width: 6-3/8" Length: 5-1/4" Diameter: 3-5/8" Maximum Extension: 7-5/8"
ELECTRICAL:	120V - dimmable
LISTING:	cULus listed
WARRANTY:	3-Year limited warranty
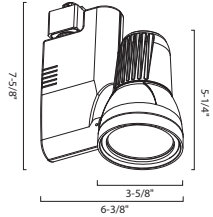
PILLAR LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-810	**L** LED	**30** 3000K **40** 4000K	**X** 15˚ Spot or 30˚ Flood	**18** 18W	**B** Black **S** Silver **W** White	**(blank)** H-Style **/J** J-Style **/L** L-Style

*Order Example: **NTE-810L40X18B** - 18W Pillar LED Track Fixture, 4000 Kelvin Temperature, 30˚ Flood Beam Spread, Black Finish (H-Style)*

NEW!

Jason Horizontal High Lumen LED Track Fixture

NTE-855   18W / 28W / 36W MAX

FEATURES:	18W and 1400 Lumens; 28W and 2200 Lumens, 36W and 2800 Lumens, at 80+ CRI
CONSTRUCTION:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	**S** 15˚ Spot, **F** 40˚ Flood
FINISH:	**B** Black, **S** Silver, **W** White
STYLE:	H, J, or L Style
DIMENSIONS:	**Round** - W: 6-1/4" L: 6-3/8" Dia: 3-3/8" Max Ext: 7-7/8" **Square** - W: 6-1/4" L: 7" Dia: 3-1/8" Max Ext: 8"
ADJUSTABILITY:	345˚ Rotation. Both driver and diode castings pivot 180˚ independent of each other
ELECTRICAL:	120V - dimmable (**only for 23W**)
LISTING:	cULus listed
WARRANTY:	3-Year limited warranty

JASON LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-850 **NTE-854**	**L** LED	**30** 3000K **40** 4000K	**X** 24˚ Spot / 42º Flood **X** 18˚ Spot / 38º Flood	**10** 10W **15** 15W	**B** Black **S** Silver **W** White	**(blank)** H-style **/J** J-style **/L** L-style

*Order Example: **NTE-850L40X10B** - Aiden 10W LED Track, 4000K, 24˚ Spot, Black finish, (H-Style)*

NORA | *N*SPEC®

H, J AND L STYLE ADAPTERS LED TRACK FIXTURES

Cori 12W / 23W LED Track Fixture

NTE-840 Series   12W / 23W MAX

FEATURES: 23W and 1800 Lumens; 12W and 1040 Lumens, 80+ CRI
CONSTRUCTION: Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP: **30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD: **S** 15˚ Spot, **F** 35˚ Flood
FINISH: **B** Black, **S** Silver, **W** White
STYLE: H, J, or L Style
DIMENSIONS: **12W** - W: 4-1/2" L: 3-5/8"   Dia: 2-5/8"   Max Ext: 7-1/2"
23W - W: 6-1/2" L: 4-1/4"   Dia: 3-5/8"   Max Ext: 8-1/2"
ADJUSTABILITY: 345˚ Rotation. Both driver and diode castings pivot 180˚ independent of each other
ELECTRICAL: 120V - dimmable (**only for 23W**)
LISTING: cULus listed
WARRANTY: 3-Year limited warranty
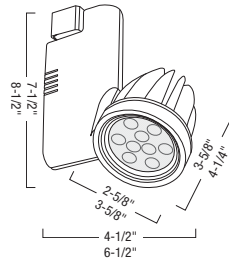
CORI LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-840	**L** LED	**30** 3000K	**S** 15˚ Spot	**12** 12W	**B** Black	**(blank)** H-style
	D Dim	**40** 4000K	**F** 35˚ Flood	**23** 23W	**S** Silver	**/J** J-style
					W White	**/L** L-style

*Order Example: **NTE-840D30S23W/J** - Cori LED Track Fixture, 3000 Kelvin, 15˚ Beam Spread, 23 Watts Dimmable, White Finish, "J" compatible adapter*

Robo Cylinder 9W LED Track Fixture

NTE-820 Series   9W MAX

FEATURES: 9W (3x3W) up to 314 lumens, 80+ CRI
CONSTRUCTION: Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP: **30** 3000K Warm White, **42** 4200K Cool White
Beam Spread: **F** 30˚ Beam
FINISH: **B** Black, **W** White
STYLE: H, J, or L Style
DIMENSIONS: W: 5-5/8" L: 3-1/2" Dia: 2-3/8" Max Ext: 8-1/2"
ADJUSTABILITY: 345˚ Rotation. Both driver and diode castings pivot 180˚ independent of each other
ELECTRICAL: 120V non-dimmable
LISTING: cULus listed
WARRANTY: 3-Year limited warranty
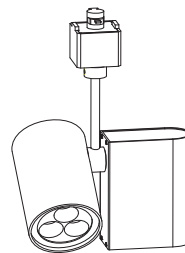
ROBO CYLINDER LED TRACK FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NTE-820	**L** LED	**30** 3000K	**F** 30˚ Flood	**9** 9W	**B** Black	**(blank)** H-Style
		42 4200K			**W** White	**/J** J-Style
						/L L-Style

*Order Example: **NTE-820L42F9W** - 9W Robo Cylinder LED Track Fixture, 4200 Kelvin Temperature, 30˚ Beam Spread, White Finish (H-Style)*

VERSA TRACK SERIES
MR16 LED COMPATIBLE* LOW VOLTAGE

Nora Lighting's MR16 low voltage track heads with dimmable electronic drivers/transformers are now compatible with MR16 LED or halogen lamps. The Versa Track Series features four models designed for accent lighting in a range of applications, including restaurant dining or lounge areas, in-store retail displays and residential settings. Versa Track's integral electronic driver/transformer is rated for 0 to 60 watt loads. The zero low-end allowance ensures a longer LED consistent performance and life.

NEW!

Versa V-Tech Single with Dimmable Integral
Electronic Driver/Transformer

NTLE-265(finish)   H-STYLE   3W -50W

LAMP:	3W-50W LED/Halogen MR16 (not included)
FINISH:	**B** Black, **W** White
DIMENSIONS:	Length: 3" Diameter: 2-7/8" Maximum Extension: 6"
LISTING:	cULus listed

NEW!

Versa V-Tech Dual with Dimmable Integral
Electronic Driver/Transformer

NTLE-8265(finish)   H-STYLE   3W -50W

LAMP:	3W-25W (per head) LED/Halogen MR16 (not included)
FINISH:	**B** Black, **W** White
DIMENSIONS:	Length: 6-3/4" Diameter: 2-7/8" Maximum Extension: 7-1/8"
LISTING:	cULus listed

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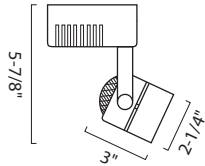
Versa Cylinder with Dimmable Integral Electronic Driver/Transformer

NTLE-203(finish)   H & J-STYLE   0W -60W

LAMP:	3W-50W LED/Halogen MR16 (not included)
FINISH:	**B** Black, **BZ** Bronze, **NM** Natural Metal, **W** White
DIMENSIONS:	Length: 3" Diameter: 2-1/4" Maximum Extension: 5-7/8"
LISTING:	cULus listed
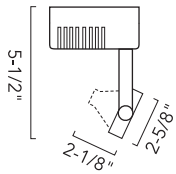
Versa Gimbal Ring with Dimmable Integral Electronic Driver/Transformer

NTLE-207(finish)   H & J-STYLE   0W - 60W

LAMP:	3W-50W LED/Halogen MR16 (not included)
FINISH:	**B** Black, **BZ** Bronze, **NM** Natural Metal, **W** White
DIMENSIONS:	Length: 2-1/8" Diameter: 2-5/8" Maximum Extension: 5-1/2"
LISTING:	cULus listed
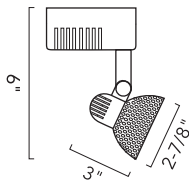
Versa Wireback with Dimmable Integral Electronic Driver/Transformer

NTLE-213(finish)   H & J-STYLE   0W - 60W

LAMP:	3W-50W LED/Halogen MR16 (not included)
FINISH:	**B** Black, **BZ** Bronze, **NM** Natural Metal, **W** White
DIMENSIONS:	Length: 3" Diameter: 2-7/8" Maximum Extension: 6"
LISTING:	cULus listed
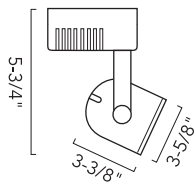
Versa Roundback with Dimmable Integral Electronic Driver/Transformer

NTLE-214(finish)   H & J-STYLE   0W - 60W

LAMP:	3W-50W LED/Halogen MR16 (not included)
FINISH:	**B** Black, **W** White
DIMENSIONS:	Length: 3-3/8" Diameter: 3-5/8" Maximum Extension: 5-3/4"
LISTING:	cULus listed

Consult Spec sheet for compatible LED MR16 lamps at www.noralighting.com   Custom stem lengths available in six-inch increments from 12" to 48". Consult factory.

LED GU10 H, J AND L STYLE ADAPTERS
SPECIFIABLE LINE VOLTAGE TRACK FIXTURES

LED Italia™

NTH-618(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-618(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-618(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **S** Silver

LAMP: **A13**, **H11**

DIMENSIONS: Length: 2-3/4" Dia.: 2-3/16" Max Ext.: 6-1/2"

· Custom stem lengths available in six-inch increments from 12" to 48"
  Consult factory for more information

6-1/2"
2-3/16"
2-3/4"
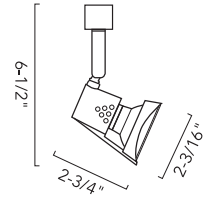
LED Metro™

NTH-619(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-619(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-619(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **S** Silver

LAMP: **A13**, **H11**

DIMENSIONS: Length: 2-7/8" Dia.: 2" Max Ext.: 6"

· Custom stem lengths available in six-inch increments from 12" to 48"
  Consult factory for more information

6"
2"
2-7/8"
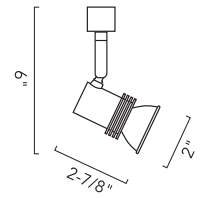
GU10 LED Cylinder

NEW!

NTH-910(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-910(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-910(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FEATURE: Architectural die-cast construction

FINISH: **B** Black, **W** White

LAMP: **A13**, **H11**

DIMENSIONS: Length: 4-1/2" Dia.: 2-1/2" Max Ext.: 6"

A13 LED 6W 3000K GU10 380 Lumens, 40˚	**A82** LED 17W 3000K PAR38 1150 Lumens, 25˚	**E20** LED 7W 2700K PAR20 500 Lumens, 20˚	**H11** LED 4.5W 3000K GU10 400 Lumens, 25˚
A22 LED 7W 2700K PAR20 460 Lumens, 25˚	**A83** LED 17W 3000K PAR38 1200 Lumens, 25˚	**E21** LED 7W 3000K PAR20 520 Lumens, 20˚	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25˚
A23 LED 7W 3000K PAR20 470 Lumens, 25˚	**A84** LED 17W 2700K PAR38 1150 Lumens, 40˚	**E82** LED 18W 2700K PAR38 1250 Lumens, 25˚	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25˚
A34 LED 10W 2700K PAR30 750 Lumens, 25˚	**A85** LED 17W 3000K PAR38 1200 Lumens, 40˚	**E83** LED 18W 3000K PAR38 1550 Lumens, 25˚	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35˚
A35 LED 10W 3000K PAR30 800 Lumens, 25˚		**E84** LED 18W 2700K PAR38 1550 Lumens, 40˚	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35˚
A36 LED 10W 2700K PAR30 750 Lumens, 40˚		**E85** LED 18W 3000K PAR38 1550 Lumens, 40˚	
A37 LED 10W 3000K PAR30 800 Lumens, 40˚			

Fixtures above include specified LED lamps. See page 131 for lamp specifications.

Order Example: **NTH-132BE33/J** - *Belgium PAR30 J-Style Track Fixture, Black with 12W 3000K PAR30 35 Degree Beam Spread LED Lamp*

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SPECIFIABLE LINE VOLTAGE TRACK FIXTURES

Universal Lamp Holder

NTH-109(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-109(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-109(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FEATURE: Adjustable socket

FINISH: **B** Black, **N** Natural Metal, **W** White

LAMP: **A22, A23, A35, A36, A37, A82, A83, E20, E21, H31, H32, H33, E82, E83, E84, E85**

DIMENSIONS: Length: 7-7/8"   Dia.: 4-3/4"   Max Ext.: 9-3/4"
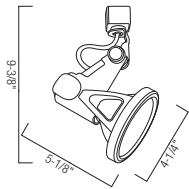
Belgium™ PAR30 Front Load Die-Cast Gimbal

NTH-132(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-132(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-132(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FEATURE: Architectural die-cast construction

FINISH: **B** Black, **S** Silver, **W** White

LAMP: **H30**, **H31**, **H32**, **H33**

DIMENSIONS: Length: 5" Dia.: 4-1/4" Max Ext.: 8-1/2"
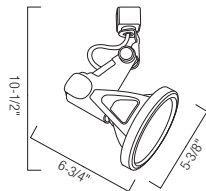
Belgium™ PAR38 Front Load Die-Cast Gimbal

NTH-133(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-133(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-133(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FEATURE: Architectural die-cast construction

FINISH: **B** Black, **S** Silver, **W** White

LAMP: **A82, A83, A84, A85**

DIMENSIONS: Length: 6-1/2"   Dia.: 5-3/8"   Max Ext.: 9-3/4"

A13	LED 6W 3000K GU10 380 Lumens, 40°	**A82** LED 17W 3000K PAR38 1150 Lumens, 25°	**E20** LED 7W 2700K PAR20 500 Lumens, 20°	**H11** LED 4.5W 3000K GU10 400 Lumens, 25°
A22	LED 7W 2700K PAR20 460 Lumens, 25°	**A83** LED 17W 3000K PAR38 1200 Lumens, 25°	**E21** LED 7W 3000K PAR20 520 Lumens, 20°	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25°
A23	LED 7W 3000K PAR20 470 Lumens, 25°	**A84** LED 17W 2700K PAR38 1150 Lumens, 40°	**E82** LED 18W 2700K PAR38 1250 Lumens, 25°	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25°
A34	LED 10W 2700K PAR30 750 Lumens, 25°	**A85** LED 17W 3000K PAR38 1200 Lumens, 40°	**E83** LED 18W 3000K PAR38 1550 Lumens, 25°	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35°
A35	LED 10W 3000K PAR30 800 Lumens, 25°		**E84** LED 18W 2700K PAR38 1550 Lumens, 40°	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35°
A36	LED 10W 2700K PAR30 750 Lumens, 40°		**E85** LED 18W 3000K PAR38 1550 Lumens, 40°	
A37	LED 10W 3000K PAR30 800 Lumens, 40°			

Fixtures above include specified LED lamps. See page 131 for lamp specifications.

LED PAR H, J AND L STYLE ADAPTERS
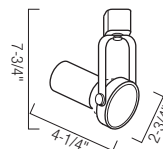## SPECIFIABLE LINE VOLTAGE TRACK FIXTURES

Gimbal Ring PAR20 Line Voltage

NTH-112(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-112(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-112(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **N** Natural Metal, **W** White

LAMP: **A22, A23, E20, E21**

DIMENSIONS: Length: 3-5/8"   Dia.: 2-3/4"   Max Ext.: 7-3/4"

7-3/4"
4-1/4"
2-3/4"

Gimbal Ring PAR30 Line Voltage

NTH-107 (finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-107(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-107(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **BZ** Bronze, **N** Natural Metal, **W** White

LAMP: **A35, A36, A37, H30, H31, H32, H33**

DIMENSIONS: Length: 4"   Dia.: 4-5/8"   Max Ext.: 8-1/8"

8-3/8"
4-1/8"
3-7/8"
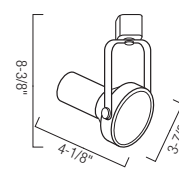
Line Voltage **Gimbal Ring PAR38**

NTH-108(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-108(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-108(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **BZ** Bronze, **N** Natural Metal, **W** White

LAMP: **A82, A83, A84, A85, E82, E83, E84, E85**

DIMENSIONS: Length: 4"   Dia.: 5-3/4"   Max Ext.: 9-3/4"

9-3/4"
5-5/8"
5"

A13 LED 6W 3000K GU10 380 Lumens, 40°
A22 LED 7W 2700K PAR20 460 Lumens, 25°
A23 LED 7W 3000K PAR20 470 Lumens, 25°
A34 LED 10W 2700K PAR30 750 Lumens, 25°
A35 LED 10W 3000K PAR30 800 Lumens, 25°
A36 LED 10W 2700K PAR30 750 Lumens, 40°
A37 LED 10W 3000K PAR30 800 Lumens, 40°

A82 LED 17W 3000K PAR38 1150 Lumens, 25°
A83 LED 17W 3000K PAR38 1200 Lumens, 25°
A84 LED 17W 2700K PAR38 1150 Lumens, 40°
A85 LED 17W 3000K PAR38 1200 Lumens, 40°

E20 LED 7W 2700K PAR20 500 Lumens, 20°
E21 LED 7W 3000K PAR20 520 Lumens, 20°
E82 LED 18W 2700K PAR38 1250 Lumens, 25°
E83 LED 18W 3000K PAR38 1550 Lumens, 25°
E84 LED 18W 2700K PAR38 1550 Lumens, 40°
E85 LED 18W 3000K PAR38 1550 Lumens, 40°

H11 LED 4.5W 3000K GU10 400 Lumens, 25°
H30 LED 12.5W 2700K PAR30 800 Lumens, 25°
H31 LED 12.5W 3000K PAR30 900 Lumens, 25°
H32 LED 12.5W 2700K PAR30 850 Lumens, 35°
H33 LED 12.5W 3000K PAR30 900 Lumens, 35°

Fixtures above include specified LED lamps. See page 131 for lamp specifications.

*Order Example: **NTH-132BE33/J** - Belgium PAR30 J-Style Track Fixture, Black with 12W 3000K PAR30 35 Degree Beam Spread LED Lamp*

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SPECIFIABLE LINE VOLTAGE TRACK FIXTURES

5-1/4"
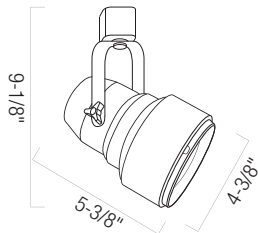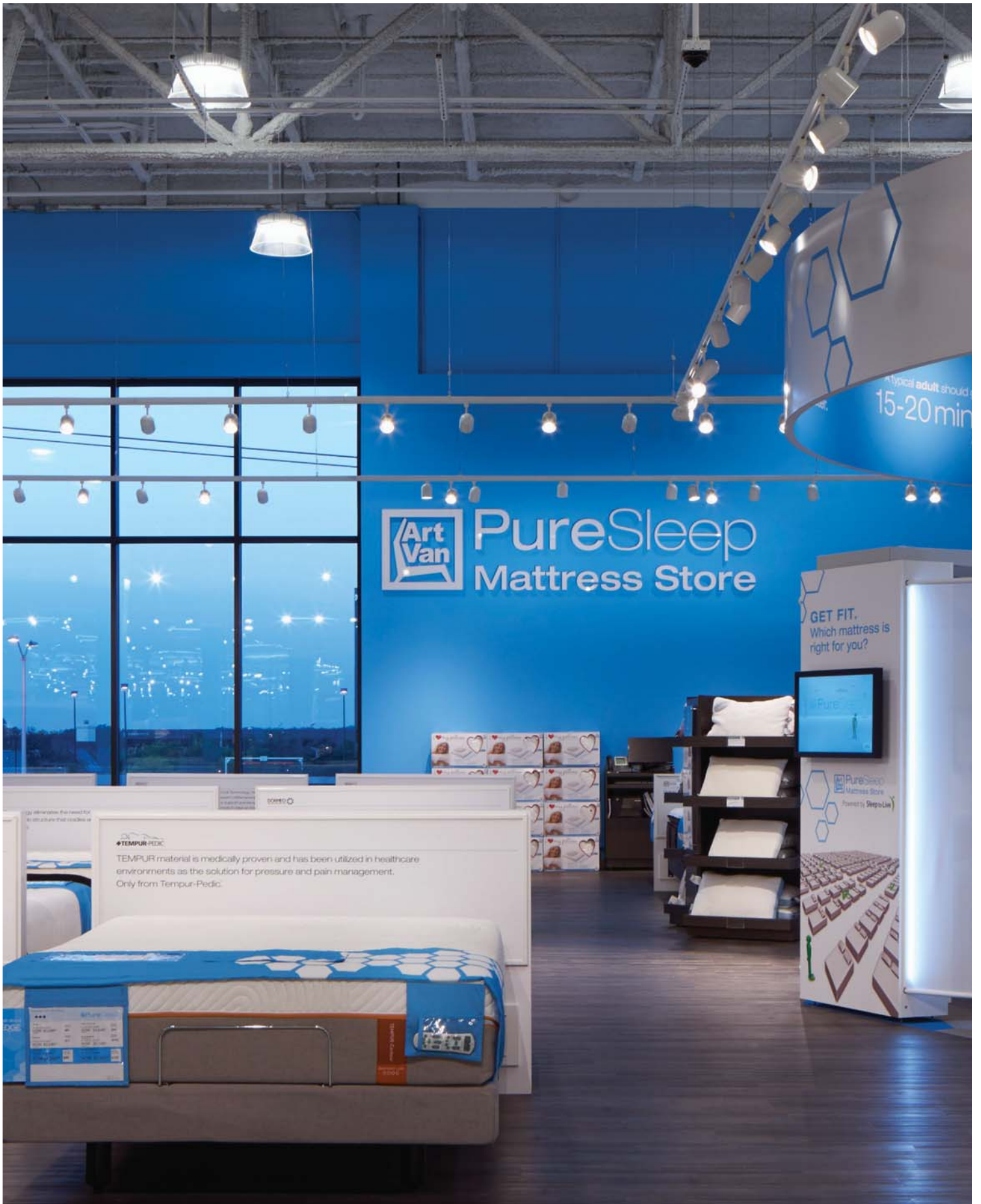3"
2"

Truly Universal™ PAR Holder with Retractable Shroud

NTH-138(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-138(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-138(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **W** White

LAMP: **A22**, **A23**, **A35**, **A36**, **A37**, **A82**, **A83**, **E20**, **E21**, **H31**, **H32**, **H33**, **E82**, **E83**, **E84**, **E85**

DIMENSIONS: Length: 7-7/8" Dia.: 4-3/4" Max Ext.: 9-3/4"

9-1/8"
5-3/8"
4-3/8"

Shroud PAR30 Line Voltage

NTH-149(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-149(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-149(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **S** Silver, **W** White

LAMP: **A36***, **A37***

DIMENSIONS: Length: 5-1/2" Dia.: 4-3/8" Max Ext.: 9-1/4"

ACCESSORIES: Accepts louvers and filters (by others)

11-1/2"
7-5/8"
5-3/4"
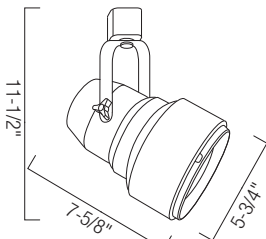
Shroud PAR38 Line Voltage

NTH-150(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-150(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-150(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **S** Silver, **W** White

LAMP: **A82**, **A83**, **A84**, **A85**, **E80**, **E82**, **E83**, **E84**, **E85**

DIMENSIONS: Length: 7-1/2" Dia.: 5-3/4" Max Ext.: 11-1/4"

ACCESSORIES: Accepts louvers and filters (by others)

A13	LED 6W 3000K GU10 380 Lumens, 40°	**A82** LED 17W 3000K PAR38 1150 Lumens, 25°	**E20** LED 7W 2700K PAR20 500 Lumens, 20°	**H11** LED 4.5W 3000K GU10 400 Lumens, 25°
A22	LED 7W 2700K PAR20 460 Lumens, 25°	**A83** LED 17W 3000K PAR38 1200 Lumens, 25°	**E21** LED 7W 3000K PAR20 520 Lumens, 20°	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25°
A23	LED 7W 3000K PAR20 470 Lumens, 25°	**A84** LED 17W 2700K PAR38 1150 Lumens, 40°	**E82** LED 18W 2700K PAR38 1250 Lumens, 25°	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25°
A34	LED 10W 2700K PAR30 750 Lumens, 25°	**A85** LED 17W 3000K PAR38 1200 Lumens, 40°	**E83** LED 18W 3000K PAR38 1550 Lumens, 25°	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35°
A35	LED 10W 3000K PAR30 800 Lumens, 25°		**E84** LED 18W 2700K PAR38 1550 Lumens, 40°	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35°
A36	LED 10W 2700K PAR30 750 Lumens, 40°		**E85** LED 18W 3000K PAR38 1550 Lumens, 40°	
A37	LED 10W 3000K PAR30 800 Lumens, 40°			

Fixtures above include specified LED lamps. See page 131 for lamp specifications.

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SPECIFIABLE LINE VOLTAGE TRACK FIXTURES

Duet PAR30 Line Voltage

NTH-883(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-883(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-883(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **W** White

LAMP: **A35, A36, A37, H30**, **H31**, **H32**, **H33**,

DIMENSIONS: Length: 5-1/2" Dia.: 4-3/8" Max Ext.: 9-1/4"

NEW!

Duet PAR38 Line Voltage

NTH-884(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-884(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-884(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **W** White

LAMP: **A82, A83**, **A84**, **A85**, **E82**, **E83**, **E84**, **E85**

DIMENSIONS: Length: 7-1/2" Dia.: 5-3/4" Max Ext.: 11-1/4"

ACCESSORIES: Accepts louvers and filters (by others)

NEW!

LED PAR20 Cylinder
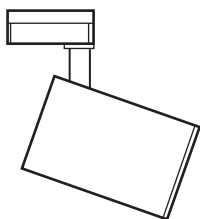
NTH-920(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-920(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-920(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FEATURE: Adjustable socket

FINISH: **B** Black, **W** White

LAMP: **A22**, **A23**, **E20**, **E21**

DIMENSIONS: Length: 5-1/4" Dia.: 3-3/8" Max Ext.: 7-5/8"

NEW!

LED PAR30 Cylinder
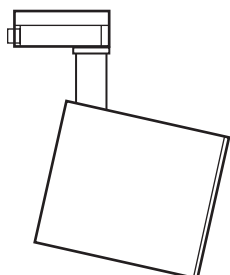
NTH-930(finish)(lamp)	H-STYLE	LED LAMP INCLUDED
NTH-930(finish)(lamp)/J	J-STYLE	LED LAMP INCLUDED
NTH-930(finish)(lamp)/L	L-STYLE	LED LAMP INCLUDED

FINISH: **B** Black, **W** White

LAMP: **A35**, **A36**, **A37**, **E30**, **E31**, **E32**, **E33**

DIMENSIONS: Length: 5-3/8" Dia.: 4-3/4" Max Ext.: 7-7/8"

NEW!

A13 LED 6W 3000K GU10 380 Lumens, 40°	**A82** LED 17W 3000K PAR38 1150 Lumens, 25°	**E20** LED 7W 2700K PAR20 500 Lumens, 20°	**H11** LED 4.5W 3000K GU10 400 Lumens, 25°
A22 LED 7W 2700K PAR20 460 Lumens, 25°	**A83** LED 17W 3000K PAR38 1200 Lumens, 25°	**E21** LED 7W 3000K PAR20 520 Lumens, 20°	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25°
A23 LED 7W 3000K PAR20 470 Lumens, 25°	**A84** LED 17W 2700K PAR38 1150 Lumens, 40°	**E82** LED 18W 2700K PAR38 1250 Lumens, 25°	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25°
A34 LED 10W 2700K PAR30 750 Lumens, 25°	**A85** LED 17W 3000K PAR38 1200 Lumens, 40°	**E83** LED 18W 3000K PAR38 1550 Lumens, 25°	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35°
A35 LED 10W 3000K PAR30 800 Lumens, 25°		**E84** LED 18W 2700K PAR38 1550 Lumens, 40°	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35°
A36 LED 10W 2700K PAR30 750 Lumens, 40°		**E85** LED 18W 3000K PAR38 1550 Lumens, 40°	
A37 LED 10W 3000K PAR30 800 Lumens, 40°			

Fixtures above include specified LED lamps. See page 131 for lamp specifications.

LED TRACK
ONE AND TWO CIRCUIT TRACK

Wiring for one switch and one circuit

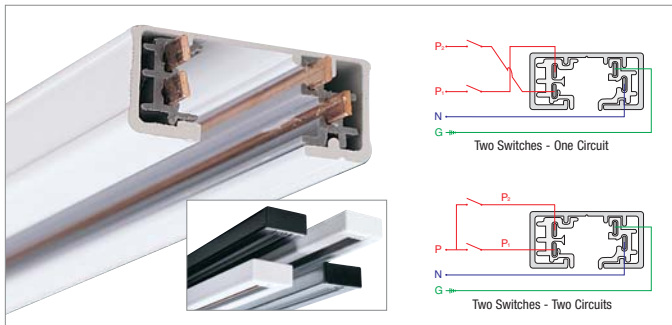### One-Circuit Track

NT-301	H-Style 2' Track (24-1/4" actual length*)
NT-302	H-Style 4' Track (48-1/4" actual length*)
NT-303	H-Style 6' Track (72-1/4" actual length*) *not available in BZ*
NT-304	H-Style 8' Track (96-1/4" actual length*)
NT-331	H-Style 12' Track (144-1/4" acutal length*) *not available in BZ, N*
	* measurement includes end caps

Rating: 120V, 20A Circuit, 2400W
Finish: **B** Black, **BZ** Bronze, **N** Natural Metal, **S** Silver, **W** White
Dimensions: Width: 1-3/4"   Height: 5/8"
Includes: Dead-end caps and mounting hardware

NORA LIGHTING'S **ONE-CIRCUIT** TRACK SYSTEM

With it's miniature size and push in connectors, Nora's one-circuit track system provides versatility for every lighting application. The system is designed and engineered for safety and ease of installation. Rated for a maximum of 2400 watts, Nora's one-circuit track is supported by a full line of accessories. For more control, additional switched feed points can be made with additional connectors.

To use a track fixture on a single-circuit track system, the line contact at the top of the track fixture must be in the lower position. To move the lever from the upper to the lower position, simpy push lever down with the edge of a standard screwdriver.

SPECIFICATIONS

· Miniature extruded aluminum channel
· Push-in connections
· Solid, 12-gauge copper conductors in PVC insulators
· Separate, full-length ground conductor
· Available in black, bronze, natural metal, silver, white
· Available in 2', 4', 6', 8' and 12' lengths
· Compatible with most common 3-wire systems
· Rated for maximum of 2400 watts
· Visual polarity groove indicates proper electrical installation
· Size is only 5/8" high x 1-3/4" wide,Can be field cut to desired length
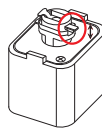· 120V Line Voltage only

Two Switches - One Circuit

Two Switches - Two Circuits

Two-Circuit Track

NT-2302	H-Style4' Track (48-1/4" Actual Length*)
NT-2303	H-Style6' Track (72-1/4" Actual Length*) *not available in S*
NT-2304	H-Style8' Track (96-1/4" Actual Length*)
NT-2331	H-Style12' Track (144-1/4" Actual Length*) *not available in S*
	* measurement includes end caps

Rating: 120V, (2) 20A Circuits, 2400W each circuit
Finish: **B** Black, **BZ** Bronze, **S** Silver, **W** White
Dimensions: Width: 1-3/4" Height: 5/8"
Includes: Dead-end caps and mounting hardware

NORA LIGHTING'S **TWO-CIRCUIT** TRACK SYSTEM

Providing versatility for every lighting need, two-circuit track's miniature size, contemporary finishes, and push-in connectors combine to make it perfect for residential or commercial use. This track system is ideal for single or double switching, allowing greater control for various illumination levels. Dual dimming is allowed with use of a single-phase neutral circuit.

Nora Lighting's Two-Circuit Track System is designed for use when two separately controlled circuits are required on one section of track. Each circuit is rated for 2400 watts and will allow you to control two individual sets of fixtures.* The use of two-circuit track eliminates the need for long, separate fed runs, thus saving installation costs. A full line of fixtures and accessories enhance the flexibility of design and installation.

To use a track fixture on a two-circuit track system, the line contact at the top of the track fixture must be in the upper position for one-circuit or the lower position for the 2nd circuit. To move the lever from the lower to the upper position, push the lever up with edge of standard screw driver.

SPECIFICATIONS

· Miniature extruded aluminum channel
· Push-in connections
· Separate, full-length ground conductor
· Available in black, silver, white
· Available in 4', 6', 8' and 12' lengths
· Can be field cut to desired length
· Size is only 5/8" high x 1-3/4" wide
· Compatible with most common 2-circuit, 4-wire systems
· Rated for double capacity 4800W of maximum performance
· Dual dimming (requires single-phase only neutral circuit)
· Ideal for single or double switching
· Visual polarity groove indicates proper electrical installation
· Solid, 12-gauge copper conductors in PVC insulators
· 120V Line Voltage only

Note: If dimming two-circuit track to different levels, shared neutral circuit must be connected to a single-phase netural source for clean, noise-free operation

NORA | NSPEC®

CURRENT LIMITER **END FEEDS**

ONE-CIRCUIT		TWO-CIRCUIT	
CATALOG NO.	**AMPS / WATTS**	**CATALOG NO.**	**AMPS / WATTS**
NT-348/1A	1A / 120W	**NT-2348/1A**	1A / 120W
NT-348/2.5A	2.5A / 300W	**NT-2348/2.5A**	2.5A / 300W
NT-348/4.5A	4.5A / 540W	**NT-2348/4.5A**	4.5A / 540W
NT-348/5A	5A / 600W	**NT-2348/5A**	5A / 600W
NT-348/7.5A	7.5A / 850W	**NT-2348/7.5A**	7.5A / 850W
NT-348/10A	10A / 1200W	**NT-2348/10A**	10A / 1200W
NT-348/12A	12A / 1440W	**NT-2348/12A**	12A / 1440W
NT-348/14A	14A / 1680W	**NT-23248/14A**	14A / 1680W

*Example: **NT-2348W/2.5A** - Two-Circuit, End Feed, White Finish, 2.5A Circuit Breaker*

CURRENT LIMITER **IN-LINE FEEDS**

ONE-CIRCUIT		TWO-CIRCUIT	
CATALOG NO.	**AMPS / WATTS**	**CATALOG NO.**	**AMPS / WATTS**
NT-358/1A	1A / 120W	**NT-2358/1A**	1A / 120W
NT-358/2.5A	2.5A / 300W	**NT-2358/2.5A**	2.5A / 300W
NT-358/4.5A	4.5A / 540W	**NT-2358/4.5A**	4.5A / 540W
NT-358/5A	5A / 600W	**NT-2358/5A**	5A / 600W
NT-358/7.5A	7.5A / 850W	**NT-2358/7.5A**	7.5A / 850W
NT-358/10A	10A / 1200W	**NT-2358/10A**	10A / 1200W
NT-358/12A	12A / 1440W	**NT-2358/12A**	12A / 1440W
NT-358/14A	14A / 1680W	**NT-23258/14A**	14A / 1680W

*Example: **NT-358W/2.5A** - One-Circuit, In-Line Feed, White Finish, 2.5A Circuit Breaker*

Why and when to use a Nora Current Limiter?

Use Nora's track current limiter in tough watts per square foot and Title 24 applications. Commercially and residentially, Title 24 and the NEC calculate the wattage of a line voltage track or rail run by the length of the run, not by wattage consumed. NEC applies 45 watts per foot regardless of actual load.

Example: (3) 39W Fixtures on a 20' run would be calculated at 900W (20' at 45 watts)

With Nora's 1 amp current limiting track feed, this run is now limited to 120 watts. A savings of 780 watts in the watts per square foot and Title 24 calculations.

CURRENT LIMITER

Nora Lighting's Current Limiter is the solution you've been looking for to comply with code required watts per square foot restrictions including California Energy Code Title 24 Energy Efficient Standards. Nora's Current Limiter is a cULus Listed & Title 24 approved line voltage Track power feed with an integral circuit breaker that limits the current load on the track to a specified amperage/wattage.

Seven different available breaker amperages allow you to customize your design to match the actual wattage being consumed by the specified fixtures, instead of the standard 45 Watts per linear foot of track. Circuit breakers are available from 1 Amp to 14 Amps. Contac t factory for custom amperages.

Nora's Current Limiter replaces standard End Feeds and In-Line Track Feeds and is extremely easy to install right out of the box. No assembly required. Available in Black, Silver, or White finish.

ADVANTAGES

· Available for one or two circuit track
· Single end feed or in-line feed
· Illuminated rocker switch indicates power to track
· Eight different breaker amperages to match the load
· Ready to install, no assembly required
· UL Listed

HOW TO ORDER

1. Decide if you need one or two circuits.
2. Determine if you need an end or in-line feed.
3. Choose the finish of the current limiter.
4. Select the appropiate size circuit breaker based on the load consumed on the run.

LED TRACK
ACCESSORIES TRACK SYSTEM

Live End Feed with Canopy

NT-311   One-Circuit

NT-2311   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Live ends to start a run.
Mounting hardware included.

Live End Feed

NT-316   One-Circuit

NT-2316*   Two-Circuit

Finish: Black (B), Silver (S), White (W)
To start a run. Adds 2-3/4" to length. Left hand polarity available for daisy chain applications (NT-316L)

Live End with Cord and Plug Set

NT-321   One-Circuit

Finish: Black (B), Silver (S), White (W)
With live end
10 Amp, 1200 Watts Maximum
12 feet grounded cord

Floating Canopy Feed

NT-307   One-Circuit

NT-2307   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Connects track to existing outlet box anywhere along the track.

Live End Feed with Canopy

NT-352   One-Circuit

NT-2352   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Live ends to start a run.
Mounting hardware included

Live End Conduit Connector

NT-328   One-Circuit

NT-2328*   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Accepts standard 1/2" conduit fitting. Use with surface conduit feed.
Left hand polarity available for daisy chain applications (NT-328L)

Current Limiting Live End Feed with Circuit Breaker

NT-348_/_ _   One-Circuit

NT-2348_/_ _   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Available: 1A, 2.5A, 5A, 7.5A, 10A, 12A, 14A
Current limiter
To start a run
On/Off switch

Current Limiting In-Line Feed with Circuit Breaker

NT-358_/_ _   One-Circuit

NT-2358_/_ _   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Available: 1A, 2.5A, 5A, 7.5A, 10A, 12A, 14A
Current limiter
On/Off switch

T-Bar End Feed

NT-348   One-Circuit

NT-2348   Two-Circuit

Finish: Black (B), Silver (S), White (W)
To start a run
Top 3 knock-outs

Straight Connector

NT-310   One-Circuit

NT-2310   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Joins two track sections end to end
Cannot be used as a feed point

I-Connector

NT-312   One-Circuit

NT-2312   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Can be power feed.
Joins two track sections end to end. Adds 4" to length.

Flexible Connector

NT-309   One-Circuit

NT-2309   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Connects two tracks at any angle up to 90˚ or wall to ceiling or pitched ceiling application.
Can be power feed.

L-Connector

NT-313   One-Circuit

NT-2313*   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Can be power feed.
Connects two track sections at 90˚ angle. Field adjustable for right or left hand application. Cover included to change to I-Connector application.

T-Connector

NT-314   One-Circuit

NT-2314*   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Can be power feed.
Connects three track sections in a T-configuration.

X-Connector

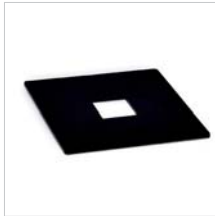**NT-315**   One-Circuit

NT-2315*   Two-Circuit

Finish: Black (B), Silver (S), White (W)
Can be power feed.
To connect 4 track sections in a cross configuration.

* Note: All two-circuit track connectors are supplied as right polarity, for left polarity add "/L" suffix.

NORA | NSPEC®

Outlet Box Cover

NT-320

Finish: Black (B), Silver (S), White (W)
Can be used at any feed connection live, straight, L, T or X.
Screws included

Monopoint w/ Power Feeder

NT-319   Square Monopoint

Finish: Black (B), Silver (S), White (W)
Allows the installation of one track fixture/pendant without a track - not suitable for all products. Mounts permanently to outlet box

Monopoint w/ Power Feeder

NT-366   Round Monopoint

NT-379   for NTE-850

Finish: Black (B), Silver (S), White (W)
Allows the installation of one track fixture/pendant without a track - not suitable for all products. Mounts permanently to outlet box

Monopoint with Power Feeder for Versa Track

NT-337

Finish: Black (B), Silver (S), White (W)
Allows the installation of one NTLE-200 Versa series track fixture without a track. Mounts permanently to outlet box
10 lbs. maximum weight

Wire Way Cover

NT-326   One or Two Circuit

Finish: Black (B), Silver (S), White (W)
For track to be wired through stem. Use one for each live end used

Slope Pendant Adapter

NT-349

Finish: Black (B), Silver (S), White (W)
Allows pendant assembly kit (NT-305, NT-306, NT-329) to hang straight down from ceiling.
Can be used to feed power to track.

Pendant Assembly Kit

NT-305	18"
NT-306	24"
NT-336	36"
NT-329	48"

Finish: Black (B), Silver (S), White (W)
Suspends track from ceiling. Use NRA-82 stem coupler to join two or more stems together. 4' maximum between pendants

Aircraft Cable Suspension Kit

NT-355/8	8'
NT-355/20	20'

Suspends track from high ceiling applications
Suspends with 1/4" - 20 threaded coupling
Supplied with T-Bar mounting clip, ceiling plate, aircraft cable and couplers

Replacement Stem

NRA-132/24	24"
NRA-132/48	48"
NRA-132/72	72"
NRA-132/96	96"

Finish: Black (B), Silver (S), White (W)
To replace existing or field damaged stem in a pendant assembly kit
Use NRA-82 coupler to join two stems together

Stem Coupler

NRA-82

Finish: Black (B), Silver (S), White (W)
Used to join NRA-132 Series together or to pendant assembly (NT-305, 306, 336, 329)

Slope Adapter for Nora Track Fixtures

NT-333   H Fixture to H Track

Finish: Black (B), Silver (S), White (W)
For use on slope ceiling
For use on H-Style Nora Track System with H-Style Nora Track Fixtures

Slope Adapter for J-Style Track Fixtures

NT-334   J Fixture to H Track

Finish: Black (B), Silver (S), White (W)
For use on slope ceiling
For use on H-Style Nora Track System with J-Style Track Fixtures

Slope Adapter for J-Style Track

NT-335   H Fixture to J Track

Finish: Black (B), Silver (S), White (W)
For use on slope ceiling
For use on J-Style Track System with H-Style Nora Track Fixtures

Track Fixture Extension Rods

NT-322	18" w/Connectors
NT-323	24" w/Connectors
NT-324	36" w/Connectors
NT-325	48" w/Connectors

Finish: Black (B), Silver (S), White (W)
Extends track fixture from track
Also available by special order, factory installed extenstion rods to 48".

18" Flexible Extension Rod

NT-330   18"

Finish: Black (B), White (W)
For use with NTH-618
Extends track fixture from track
Can NOT be used with NTL-200 series low voltage track fixture

LED TRACK
ACCESSORIES

Utility Hook

NT-308

Finish: Black (B), Silver (S), White (W)
For chain hung fixture up to 30lbs.
Can be used as power feed.

Outlet Adapter

NT-327

Finish: Black (B), Silver (S), White (W)
Allows a power outlet on the track.

Track Clamp Adapter

NT-364

Finish: Black (B), White (W)
Clamps onto round or flat surface, 12' cord plugs into any convenient 3-prong outlet.
Accepts 1 track fixture.

Track Clamp Adapter with Coil Cord

NT-364C

Finish: White (W)
Clamps onto round or flat surface, 12' curly cord plugs into any convenient 3-prong outlet.

Track Pendant Adapter

NT-368

Finish: Black (B), Silver (S), White (W)
Extends from track 2"

Versa QuickJack Adaptor

NTE-370

Finish: Black (B), Silver (S), White (W)
Contains female QuickJack adapter. Accepts all fixtures with male QuickJack adapter.
Includes electronic transformer/Driver rated for 0-60W

Retrofit Monopoint Adapter

NT-374	4"
NT-376	6"

Finish: Black (B), White (W)
75W max
Converts a 4" or 6" housing into a track monopoint
Retro-fit style

T-Bar Attachment Clip

NT-332	15/16"

To attach track to T-Bar drop ceiling

Dead End Caps

NT-318	One-Circuit
NT-2318*	Two-Circuit

Finish: Black (B), Silver (S), White (W)
To end a run. Two are included with each track

MR16 Silicone Flange Ring

NTR-100

Finish: Blue (BU), Green (GR), Red (R), White (W), Yellow (Y)
For use with NTH-618, NTH-619

Lenses for MR16 Lamps

NM-100B/MR16	Blue
NM-100Y/MR16	Yellow
NM-100G/MR16	Green
NM-100R/MR16	Red
NM-100F/MR16	Frosted
NM-100L/MR16	Linear
NM-100S/MR16	Spread

for MR11 lens, change suffix to /MR11

MR16 Accessory Louver

NT-362

Finish: Black

Socket Extender

NRA-10

Medium Base

Sample track layout showing different connectors and variable angle connectors. The system is shown powered with a floating canopy.

A simple "L" shaped track pattern powered by a live end connector fed by conduit or flex into the top of the connector. (no junction box)

Sample layout showing a "T" track pattern. The system is powered at the "T" connector and and the junction box is covered with a junction box cover.
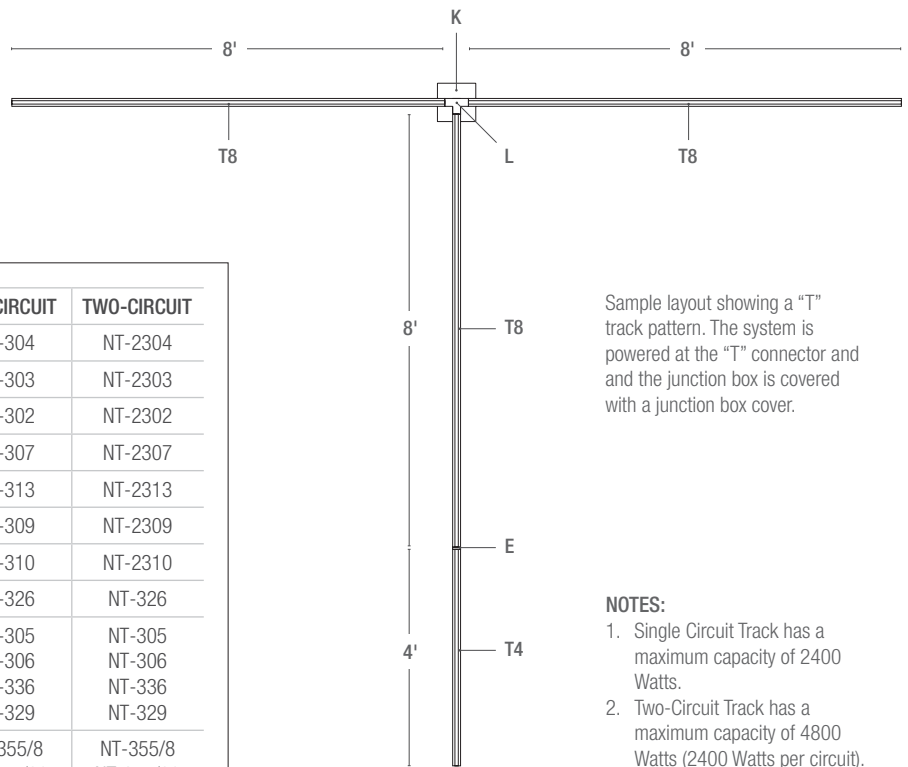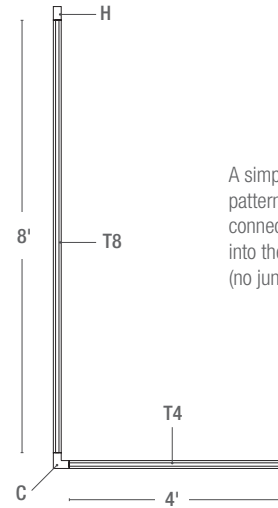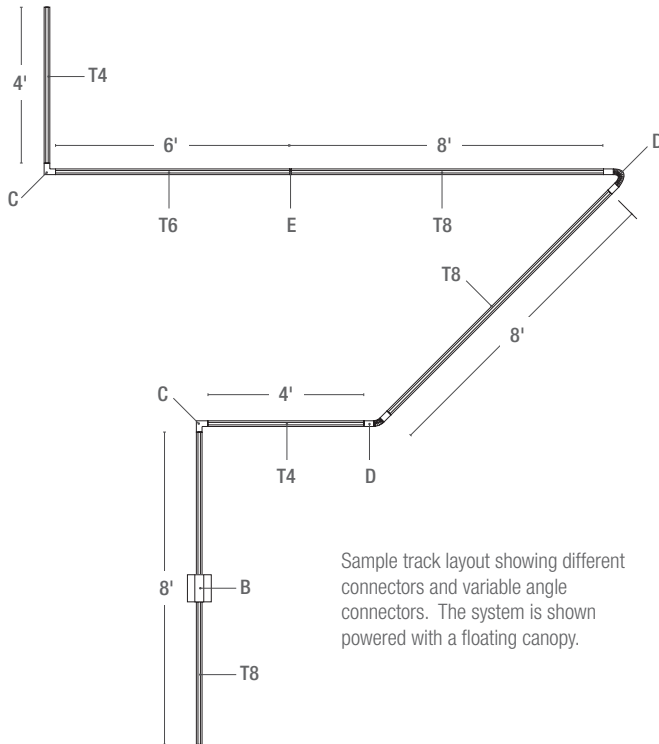
	DESCRIPTION	ONE-CIRCUIT	TWO-CIRCUIT
T8	8' Track	NT-304	NT-2304
T6	6' Track	NT-303	NT-2303
T4	4' Track	NT-302	NT-2302
B	Floating Canopy Feed	NT-307	NT-2307
C	"L" Connector	NT-313	NT-2313
D	Flexible Connector	NT-309	NT-2309
E	Straight Connector (Mini Coupler)	NT-310	NT-2310
F	Wire Way Cover	NT-326	NT-326
G	18" Pendant Assembly Kit 24" Pendant Assembly Kit 36" Pendant Assembly Kit 48" Pendant Assembly Kit	NT-305 NT-306 NT-336 NT-329	NT-305 NT-306 NT-336 NT-329
H	8' Suspension Kit, Aircraft Cable 20' Suspension Kit, Aircraft Cable	NT-355/8 NT-355/20	NT-355/8 NT-355/20
K	Junction Box Cover	NT-320	NT-320
L	"T" Connector	NT-314	NT-2314

NOTES:
1. Single Circuit Track has a maximum capacity of 2400 Watts.
2. Two-Circuit Track has a maximum capacity of 4800 Watts (2400 Watts per circuit).
3. All Nora Track Fixtures will work with single or two-circuit track.
4. Track is field cuttable.
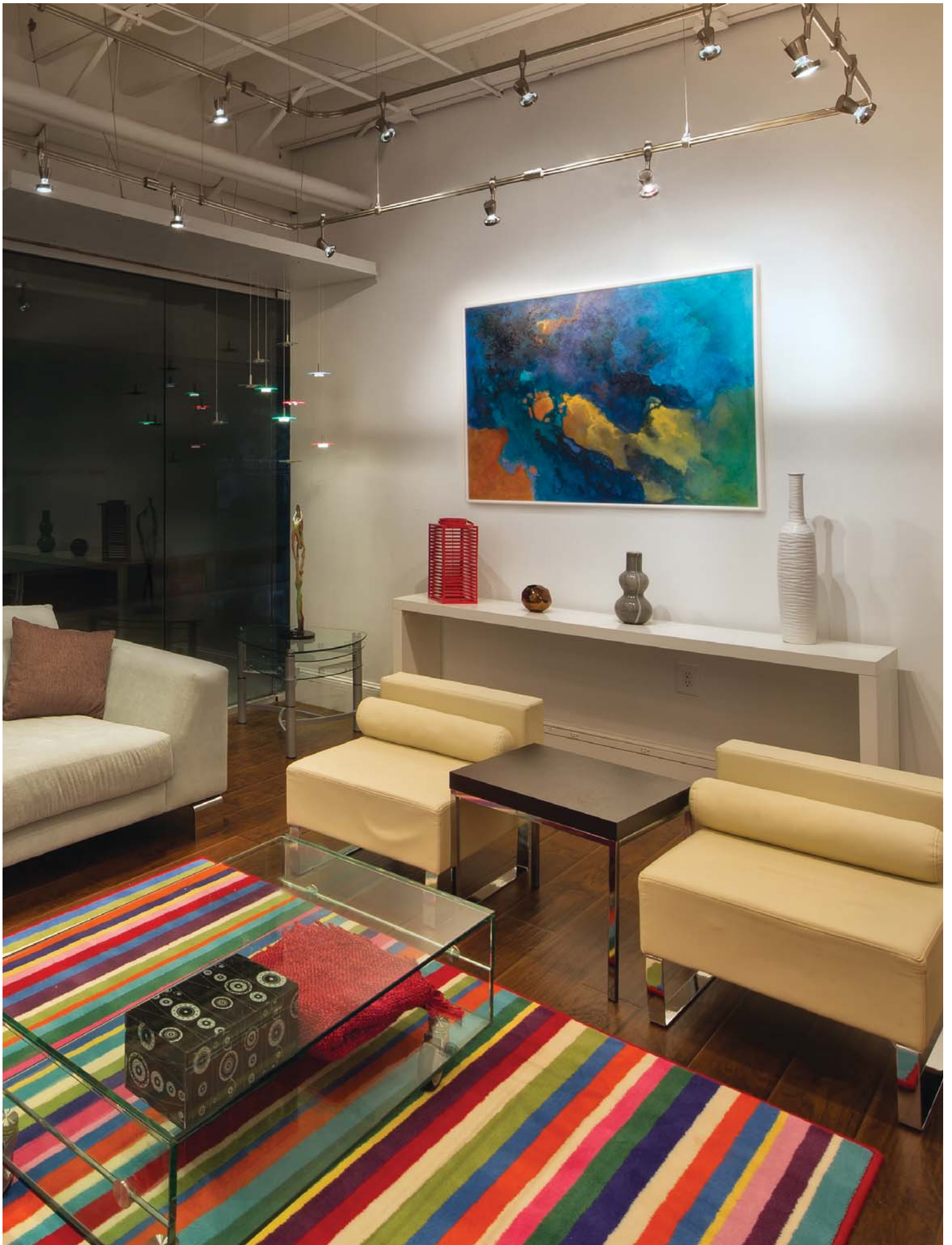
LED Nora Rail

120V LINE VOLTAGE RAIL SYSTEM

N O R A
rail

Award winning Nora Rail is the premiere Line Voltage Rail System in the marketplace, featuring all the lamping dynamics of conventional track with the curve appeal of low voltage rail. And since Nora Rail is a line voltage system it does not limit the user to single source of light or other limitations found in similar looking low voltage systems. Our large assortment of finely detailed, die-cast fixtures are complimented by an array of beautiful glass pendants. The capabilities are endless.

FEATURES

- New Versa LED compatible Rail Heads
- New Integral LED Rail Heads
- New Rail heads which include GU10 or PAR LED lamps
- New Economy Gimbal and Universal Rail Heads
- Line voltage
- No transformer for system
- No voltage drop
- Design longer runs
- 2400 watts on a single run from a single power point
- Easily accepts line voltage LED Lamping.
- Utilizes line voltage, low voltage, high-output fluorescent, metal halide and LED fixtures simultaneously on the same line voltage system if desired
- cU.L.us listed for 20 amps
- Field bendable to a 2ft. diameter circle
- Field cut-able
- Easier to design
- Telescoping supports for easy leveling in the field
- Simpler and faster to install
- No expensive dimming controls
- Brushed Nickel, Bronze or Silver finishes
- cULus Listed

LED NORA RAIL FIXTURES INTEGRAL LED

NEW!

8W LED Rail Head Fixture

NRE-850 Series   8W, 600 LUMEN

FEATURES:	8W, 600 Lumens, 80+ CRI
CONSTRUCTION:	Die-cast construction with AC LED package, eliminating the need for a driver
COLOR TEMP:	**30** 3000K Warm White
BEAM SPREAD:	Includes 50˚ narrow flood and 25˚ spot reflectors
FINISH:	**BZ** Bronze, **BN** Brushed Nickel
DIMENSIONS:	Length: 3-1/8" Diameter: 1-7/8" Maximum Extension: 5-1/2"
ADJUSTABILITY:	345˚ Horizontal and 90˚ Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	5-Year limited warranty
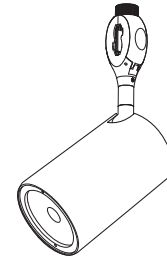
CYLO 8W LED RAIL FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	FINISH
NRE-850	**L** LED	**30** 3000K	**X** 25˚ Spot / 50º Flood	**BZ** Bronze **BN** Brushed Nickel

Order Example: **NTE-850L30XBZ** - *8W LED Rail Head , 3000K, 25˚ Spot, Bronze finish*

NEW!

20W LED Rail Head Fixture

NRE-852 Series   20W, 1400 LUMEN

FEATURES:	20W, 1400 Lumens, 80+ CRI
CONSTRUCTION:	Die-cast construction with AC LED package, eliminating the need for a driver
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	Includes 50˚ narrow flood and 25˚ spot reflectors
FINISH:	**BZ** Bronze, **BN** Brushed Nickel
DIMENSIONS:	Length: 4-1/3" Diameter: 3-1/3" Maximum Extension: 6-1/2"
ADJUSTABILITY:	345˚ Horizontal and 90˚ Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	5-Year limited warranty
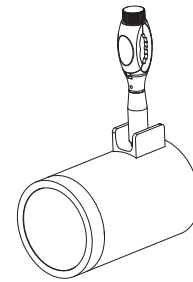
20W LED RAIL Head FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	FINISH
NRE-852	**L** LED	**30** 3000K **40** 4000K	**X** 25˚ Spot / 50º Flood	**BZ** Bronze **BN** Brushed Nickel

Order Example: **NTE-852L30XBZ** - *20W LED Rail Head, 3000K, 25˚ Spot, Bronze finish*

NORA | NSPEC®

32W LED Rail Head Fixture

NRE-853 Series   32W , 2800 LUMEN

FEATURES:	32W, 2800 Lumens, 90+ CRI
CONSTRUCTION:	Die-cast construction with LED driver
COLOR TEMP:	**30** 3000K Warm White, **40** 4000K Cool White
BEAM SPREAD:	Includes 60° narrow flood and 25° spot reflectors
DRIVER:	800mA Triac
FINISH:	**BZ** Bronze, **BN** Brushed Nickel
DIMENSIONS:	Length: 6-1/8" Diameter: 3-1/3" Maximum Extension: 9-1/2"
ADJUSTABILITY:	345° Horizontal and 90° Vertical rotation.
ELECTRICAL:	120V - dimmable
WARRANTY:	5-Year limited warranty

NEW!
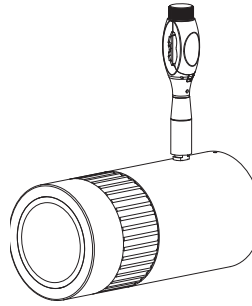
32W LED RAIL Head FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	FINISH
NRE-853	L LED	**30** 3000K	**X** 25° Spot / 60º Flood	**BZ** Bronze
		40 4000K		**BN** Brushed Nickel

Order Example: **NTE-853L30XBZ** - *32W LED Rail Head, 3000K, 25° Spot, Bronze finish*

LED NORA RAIL

Robo Cylinder 9W LED Rail Fixture

NRE-820L Series   9W MAX

FEATURES:	9W (3x3W) up to 314 lumens, 80+ CRI
LAMP:	Die-cast aluminum head and body for maximum heat dissipation, with integral driver.
COLOR TEMP:	**42** 4200K Cool White
Beam Spread:	**F** 30° Beam
FINISH:	**BN** Brushed Nickel, **BZ** Bronze
DIMENSIONS:	W: 5-5/8" L: 3-1/2" Dia: 2-3/8" Max Ext: 8-1/2"
ADJUSTABILITY:	345° Rotation. Both driver and diode castings pivot 180° independent of each other
ELECTRICAL:	120V non-dimmable
LISTING:	cULus Listed
WARRANTY:	3-Year limited warranty
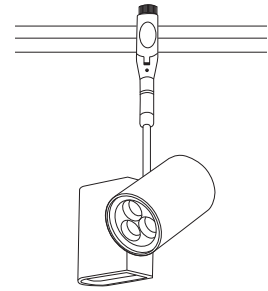
ROBO CYLINDER LED RAIL FIXTURE

SERIES	SOURCE	COLOR TEMP	BEAM SPREAD	WATTAGE	FINISH	STYLE
NRE-820	**L** LED	**42** 4200K	**F** 30° Flood	**9** 9W	**BN** Brushed Nickel **BZ** Bronze	**(blank)** H-Style **/J** J-Style **/L** L-Style

Order Example: **NRE-820L42F9BN** - *9W Robo Cylinder LED Rail Fixture, 4200 Kelvin Temperature, 30° Beam Spread, Brushed Nickel Finish (H-Style)*

NORA | *NSPEC*®

VERSA NORA RAIL SERIES
LOW VOLTAGE MR16 LED COMPATIBLE*

Nora Lighting's MR16 low voltage rail heads with dimmable electronic drivers/transformers are now compatible with MR16 LED or halogen lamps. The Versa Rail Series features models designed for accent lighting in a range of applications, including restaurant dining or lounge areas, in-store retail displays and residential settings. Versa Rail's integral electronic driver/transformer is rated for 0 to 60 watt loads. The zero low-end allowance ensures a longer LED performance life.
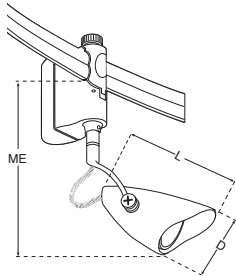
Versa Argon Curve   3W - 60W

NRSE90-P32(finish)   TRANSFORMER

NRS66-101(finish)   QUICKJACK**

LAMP:	3W-60W MR16 (not included)
FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
DIMENSIONS:	Length: 4-1/2" Dia.: 2-3/8" Max Ext.: 8"
MOBILITY:	345˚ Rotation; 90˚ Pivoting Head

ME

NRSE90-P32BN

NRS66-101BN
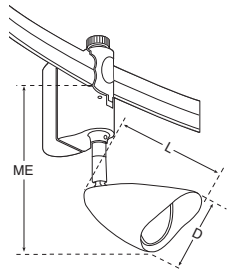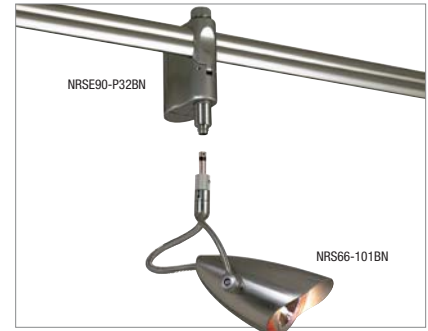
Versa Argon Swivel   3W - 60W

NRSE90-P32(finish)   TRANSFORMER

NRS66-102(finish)   QUICKJACK**

LAMP:	3W-60W MR16 (not included)
FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
DIMENSIONS:	Length: 4-1/2" Dia.: 2-3/8" Max Ext.: 6-1/4"
MOBILITY:	345˚ Rotation; 90˚ Pivoting Head

ME

NRSE90-P32S
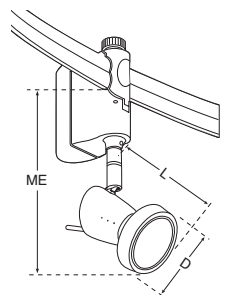
NRS66-102S

Versa Sienna w/Ring   3W - 60W

NRSE90-P32(finish)   TRANSFORMER

NRS66-103(finish)   QUICKJACK**

LAMP:	3W-60W MR16 (not included)
FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
DIMENSIONS:	Length: 4" Dia.: 2-5/16" Max Ext.: 5-3/4"
MOBILITY:	345˚ Rotation; 90˚ Pivoting Head

ME

NRSE90-P32BN

NRS66-103BN
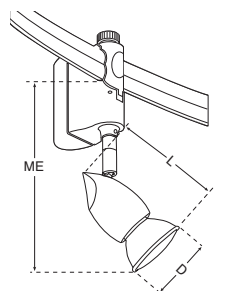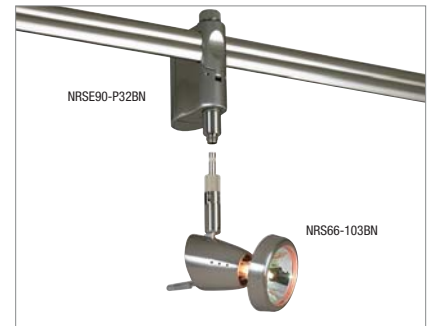
Versa Neon   3W - 60W

NRSE90-P32(finish)   TRANSFORMER

NRS66-107(finish)   QUICKJACK**

LAMP:	3W-60W MR16 (not included)
FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
DIMENSIONS:	Length: 3-1/8" Dia.: 2-7/16" Max Ext.: 5-3/4"
MOBILITY:	345˚ Rotation; 90˚ Pivoting Head

ME

NRSE90-P32S

NRS66-107S

*Consult Spec sheet for compatible LED MR16 lamps   www.noralighting.com

**QuickJack fixture consists of fixture head with male fitter and must be used with a QuickJack adapter (NRSE90-P32).

LED GU10 & PAR LINE VOLTAGE NORA RAIL
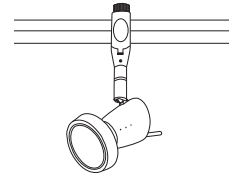# SPECIFIABLE LED NORA RAIL FIXTURES

Sienna with Ring

NRS11-103(finish)(lamp)   LED lamp included

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A13**, **H11**
DIMENSIONS:	Length: 4" Dia.: 2-5/16" Max Ext.: 5-3/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head

Neat

NRS11-104(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A13**, **H11**
DIMENSIONS:	Length: 2-3/8" Dia.: 1-1/2" Max Ext.: 4-5/8"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head
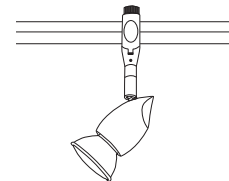
Ives Gooseneck

NRS11-302(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A13**, **H11**
DIMENSIONS:	Length: 1-5/8" Dia.: 1-3/8" Max Ext.: 12"
MOBILITY:	Flex can move in all direction

A13 LED 6W 3000K GU10 380 Lumens, 40˚	**A82** LED 17W 3000K PAR38 1150 Lumens, 25˚	**E20** LED 7W 2700K PAR20 500 Lumens, 20˚	**H11** LED 4.5W 3000K GU10 400 Lumens, 25˚
A22 LED 7W 2700K PAR20 460 Lumens, 25˚	**A83** LED 17W 3000K PAR38 1200 Lumens, 25˚	**E21** LED 7W 3000K PAR20 520 Lumens, 20˚	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25˚
A23 LED 7W 3000K PAR20 470 Lumens, 25˚	**A84** LED 17W 2700K PAR38 1150 Lumens, 40˚	**E82** LED 18W 2700K PAR38 1250 Lumens, 25˚	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25˚
A34 LED 10W 2700K PAR30 750 Lumens, 25˚	**A85** LED 17W 3000K PAR38 1200 Lumens, 40˚	**E83** LED 18W 3000K PAR38 1550 Lumens, 25˚	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35˚
A35 LED 10W 3000K PAR30 800 Lumens, 25˚		**E84** LED 18W 2700K PAR38 1550 Lumens, 40˚	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35˚
A36 LED 10W 2700K PAR30 750 Lumens, 40˚		**E85** LED 18W 3000K PAR38 1550 Lumens, 40˚	
A37 LED 10W 3000K PAR30 800 Lumens, 40˚			

Fixtures above include specified LED lamps. See page 179 for lamp specifications.

Order Example: **NRS11-103BZA11** *- Sienna with Ring Rail Fixture, Bronze finish with 4W 2700K GU10 23 Degree Beam Spread LED Lamp*

NORA | *NSPEC*®

LED GU10 & PAR
SPECIFIABLE LINE VOLTAGE RAIL FIXTURES
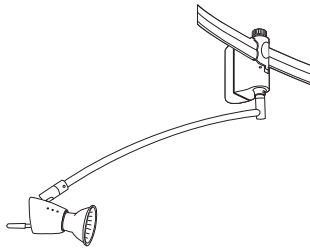
Fili Display

NRS11-310(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A13**, **H11**
DIMENSIONS:	Height: 7" Max Ext.: 16"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head
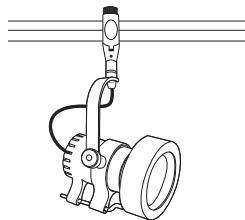
PAR20 Ulysses

NRS18-122(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A22**, **A23**, **E20**, **E21**
DIMENSIONS:	Length: 4-3/4" Dia.: 3-9/16" Max Ext.: 8-3/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head
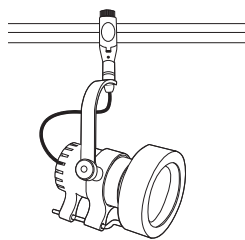
PAR30 Ulysses

NRS18-123(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A35, A36**, **A37**, **H30**, **H31**, **H32**, **H33**
DIMENSIONS:	Length: 5-1/2" Dia.: 4-3/4" Max Ext.: 9-3/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head

A13 LED 6W 3000K GU10 380 Lumens, 40˚	**A82** LED 17W 3000K PAR38 1150 Lumens, 25˚	**E20** LED 7W 2700K PAR20 500 Lumens, 20˚	**H11** LED 4.5W 3000K GU10 400 Lumens, 25˚
A22 LED 7W 2700K PAR20 460 Lumens, 25˚	**A83** LED 17W 3000K PAR38 1200 Lumens, 25˚	**E21** LED 7W 3000K PAR20 520 Lumens, 20˚	**H30** LED 12.5W 2700K PAR30 800 Lumens, 25˚
A23 LED 7W 3000K PAR20 470 Lumens, 25˚	**A84** LED 17W 2700K PAR38 1150 Lumens, 40˚	**E82** LED 18W 2700K PAR38 1250 Lumens, 25˚	**H31** LED 12.5W 3000K PAR30 900 Lumens, 25˚
A34 LED 10W 2700K PAR30 750 Lumens, 25˚	**A85** LED 17W 3000K PAR38 1200 Lumens, 40˚	**E83** LED 18W 3000K PAR38 1550 Lumens, 25˚	**H32** LED 12.5W 2700K PAR30 850 Lumens, 35˚
A35 LED 10W 3000K PAR30 800 Lumens, 25˚		**E84** LED 18W 2700K PAR38 1550 Lumens, 40˚	**H33** LED 12.5W 3000K PAR30 900 Lumens, 35˚
A36 LED 10W 2700K PAR30 750 Lumens, 40˚		**E85** LED 18W 3000K PAR38 1550 Lumens, 40˚	
A37 LED 10W 3000K PAR30 800 Lumens, 40˚			

Fixtures above include specified LED lamps. See page 179 for lamp specifications.
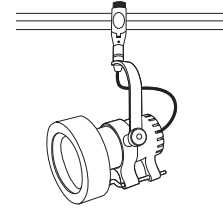
LED PAR LINE VOLTAGE NORA RAIL

SPECIFIABLE LED NORA RAIL FIXTURES

PAR38 Ulysses
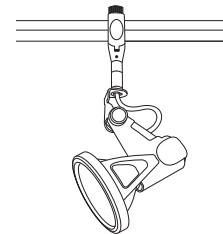
NRS18-128(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A82, A83**, **A84**, **A85**, **E80**, **E82**, **E83**, **E84**, **E85**
DIMENSIONS:	Length: 6-3/4" Dia.: 5-3/4" Max Ext.: 11-1/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head

PAR30 Belgium

NRS18-133(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**H30**, **H31**, **H32**, **H33**
DIMENSIONS:	Length: 5-3/8" Dia.: 4-1/4" Max Ext.: 8-3/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head

PAR38 Belgium

NRS18-138(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver
LAMP:	**A82, A83**, **A84**, **A85**,
DIMENSIONS:	Length: 6-1/2" Dia.: 5-3/8" Max Ext.: 9-3/4"
MOBILITY:	345˚ Rotation, 90˚ Pivoting Head
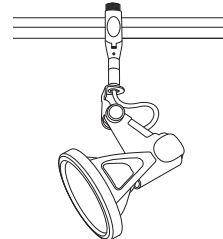
Gimbal Ring PAR20

NRS12-112(finish)(lamp)   LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel
	BZB Bronze Connector / Black Fixture
LAMP:	**A22**, **A23**, **E20**, **E21**
DIMENSIONS:	Length: 3-5/8" Dia.: 2-3/4" Max Ext.: 7-3/4"

A13	LED 6W 3000K GU10 380 Lumens, 40˚	**A82**	LED 17W 3000K PAR38 1150 Lumens, 25˚	**E20**	LED 7W 2700K PAR20 500 Lumens, 20˚	**H11**	LED 4.5W 3000K GU10 400 Lumens, 25˚
A22	LED 7W 2700K PAR20 460 Lumens, 25˚	**A83**	LED 17W 3000K PAR38 1200 Lumens, 25˚	**E21**	LED 7W 3000K PAR20 520 Lumens, 20˚	**H30**	LED 12.5W 2700K PAR30 800 Lumens, 25˚
A23	LED 7W 3000K PAR20 470 Lumens, 25˚	**A84**	LED 17W 2700K PAR38 1150 Lumens, 40˚	**E82**	LED 18W 2700K PAR38 1250 Lumens, 25˚	**H31**	LED 12.5W 3000K PAR30 900 Lumens, 25˚
A34	LED 10W 2700K PAR30 750 Lumens, 25˚	**A85**	LED 17W 3000K PAR38 1200 Lumens, 40˚	**E83**	LED 18W 3000K PAR38 1550 Lumens, 25˚	**H32**	LED 12.5W 2700K PAR30 850 Lumens, 35˚
A35	LED 10W 3000K PAR30 800 Lumens, 25˚			**E84**	LED 18W 2700K PAR38 1550 Lumens, 40˚	**H33**	LED 12.5W 3000K PAR30 900 Lumens, 35˚
A36	LED 10W 2700K PAR30 750 Lumens, 40˚			**E85**	LED 18W 3000K PAR38 1550 Lumens, 40˚		
A37	LED 10W 3000K PAR30 800 Lumens, 40˚						

Fixtures above include specified LED lamps. See page 179 for lamp specifications.

*Order Example: **NRS11-103BZA11** - Sienna with Ring Rail Fixture, Bronze finish with 4W 2700K GU10 23 Degree Beam Spread LED Lamp*

NORA | *NSPEC*®

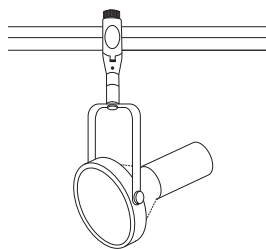# LED PAR & GU10
SPECIFIABLE LINE VOLTAGE RAIL FIXTURES
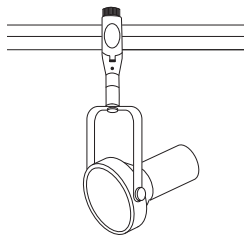
Gimbal Ring PAR30

NRS12-107(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel	
	BZB Bronze Connector / Black Fixture	
LAMP:	**A35, A36**, **A37**, **H30**, **H31**, **H32**, **H33**	
DIMENSIONS:	Length: 4" Dia.: 4-5/8" Max Ext.: 8-1/8"	

Gimbal Ring PAR38

NRS12-108(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel	
	BZB Bronze Connector / Black Fixture	
LAMP:	**A82, A83**, **A84**, **A85**, **E82**, **E83**, **E84**, **E85**	
DIMENSIONS:	Length: 4" Dia.: 5-3/4" Max Ext.: 9-3/4"	
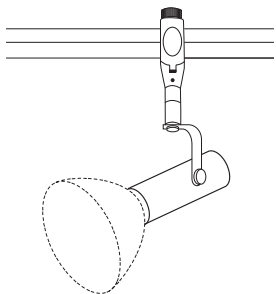
Universal

NRS12-109(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver	
LAMP:	**A22**, **A23**, **A35, A36**, **A37**, **A82, A83**, **A84**, **A85**, **E20**, **E21**, **H30**, **H31**, **H32**, **H33**, **E82**, **E83**, **E84**, **E85**	
DIMENSIONS:	Length: 7-7/8" Dia.: 4-3/4" Max Ext.: 9-3/4"	
MOBILITY:	360˚ Rotation, Adjustable Socket	
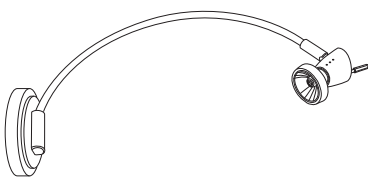
Exhibit Display with Slim Canopy

NRS11-320(finish)(lamp) LED LAMP INCLUDED

FINISH:	**BN** Brushed Nickel, **BZ** Bronze, **S** Silver	
LAMP:	**A13, H11**	
Dimensions:	Height: 10" Max Ext.: 17"	

A13 LED 6W 3000K GU10 380 Lumens, 40˚
A22 LED 7W 2700K PAR20 460 Lumens, 25˚
A23 LED 7W 3000K PAR20 470 Lumens, 25˚
A34 LED 10W 2700K PAR30 750 Lumens, 25˚
A35 LED 10W 3000K PAR30 800 Lumens, 25˚
A36 LED 10W 2700K PAR30 750 Lumens, 40˚
**A37** LED 10W 3000K PAR30 800 Lumens, 40˚

A82 LED 17W 3000K PAR38 1150 Lumens, 25˚
A83 LED 17W 3000K PAR38 1200 Lumens, 25˚
A84 LED 17W 2700K PAR38 1150 Lumens, 40˚
A85 LED 17W 3000K PAR38 1200 Lumens, 40˚

E20 LED 7W 2700K PAR20 500 Lumens, 20˚
E21 LED 7W 3000K PAR20 520 Lumens, 20˚
E82 LED 18W 2700K PAR38 1250 Lumens, 25˚
E83 LED 18W 3000K PAR38 1550 Lumens, 25˚
E84 LED 18W 2700K PAR38 1550 Lumens, 40˚
E85 LED 18W 3000K PAR38 1550 Lumens, 40˚

H11 LED 4.5W 3000K GU10 400 Lumens, 25˚
H30 LED 12.5W 2700K PAR30 800 Lumens, 25˚
H31 LED 12.5W 3000K PAR30 900 Lumens, 25˚
H32 LED 12.5W 2700K PAR30 850 Lumens, 35˚
H33 LED 12.5W 3000K PAR30 900 Lumens, 35˚

Fixtures above include specified LED lamps. See page 179 for lamp specifications.

LED NORA RAIL

RAIL SYSTEM SAMPLE LAYOUTS

R8

B

B

B

B

A1 A2

R4

B

C

B

CUSTOM BENT RAIL

A3

R8

F

G

I

J

F

J

H

TIERED RAIL

G

R8

H
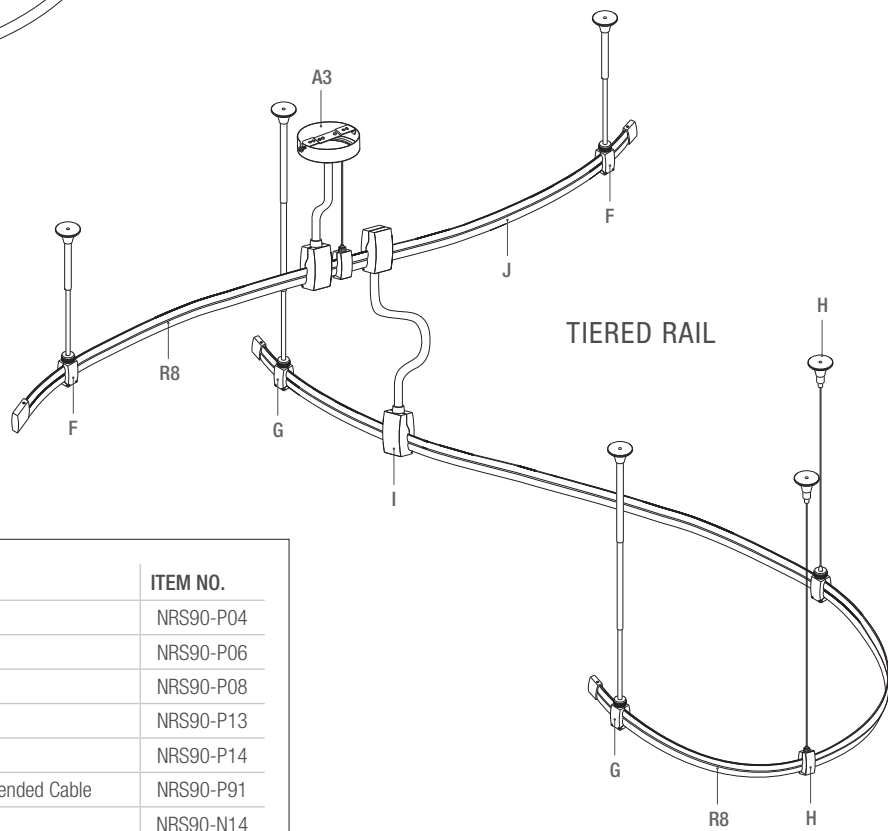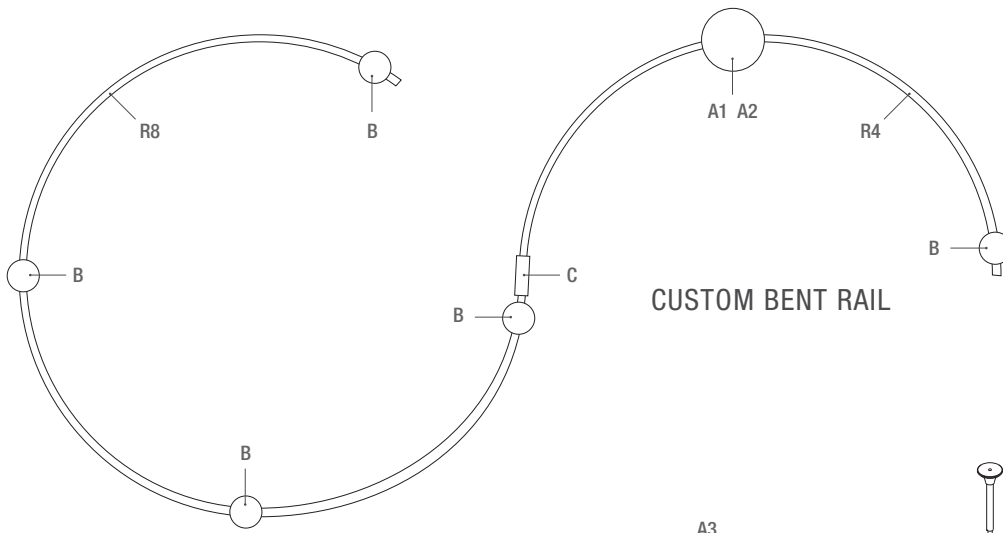
	DESCRIPTION	ITEM NO.
R4	4' Rail	NRS90-P04
R6	6'-6" Rail	NRS90-P06
R8	8' Rail	NRS90-P08
A1	Canopy for Power Stem	NRS90-P13
A2	4" Power Stem	NRS90-P14
A3	Round Power Canopy, 10'-6" Cord and Suspended Cable	NRS90-P91
B	4" Ceiling Connector	NRS90-N14
C	Straight Rail Connector - Power (Live)	NRS90-P81
D	5-1/2" - 8-1/2" Adjustable Wall Connector	NRS90-N18
E	Round Power Canopy w/ Rail Connector	NRS90-P80
F	12" - 24" Adjustable Straight/Soped Ceiling Connector	NRS90-N70
G	25-1/4" - 48" Adjustable Straight/Soped Ceiling Connector	NRS90-N71
H	Rail Connector, 10' Aircraft Cable, Ceiling mount	NRS90-N91
I	Flexible Rail to Rail Connector	NRS90-P82
J	Rail Bending Device (Rail can be bent in field)	NRS90-N33

J

NORA | NSPEC®

LED LAMP CHART SPECIFIABLE LED TRACK AND RAIL

SUFFIX	LAMP TYPE	KELVIN	WATT	LUMENS	BEAM ANGLE	CBCP	DIM	LAMP COLOR	NORA LAMP NUMBER
LED 120V GU10/MR16									
A13	GU10	3000	6.5	520	40	730	Yes	White	6G10LEDA40D30
H11	GU10	3000	4.5	315	25	2300	Yes	White	6G10LEDH25D30
LED PAR 20									
E20	PAR 20	2700	7	500	20	3600	Yes	White	7P20LEDE20D27S
E21	PAR 20	3000	7	520	20	3600	Yes	White	7P20LEDE20D30S
A22	PAR 20	2700	7	460	25	1500	Yes	White	8P20LEDA25D27
A23	PAR 20	3000	7	470	25	1540	Yes	White	8P20LEDA25D30
LED PAR 30 SHORT NECK									
H30	PAR30S	2700	12	850	25	5000	Yes	White	125P30LEDE25D27S
H31	PAR30S	3000	12	900	25	5300	Yes	White	125P30LEDE25D30S
H32	PAR30S	2700	12	850	35	2400	Yes	White	125P30LEDE35D27S
H33	PAR30S	3000	12	900	35	2500	Yes	White	125P30LEDE35D30S
LED PAR 30 LONG NECK									
A34	PAR30L	2700	10	750	25	3540	Yes	White	10P30LEDA25D27
A35	PAR30L	3000	10	800	25	3600	Yes	White	10P30LEDA25D30
A36	PAR30L	2700	10	750	40	1560	Yes	White	10P30LEDA40D27
A37	PAR30L	3000	10	800	40	1600	Yes	White	10P30LEDA40D30
LED PAR 38									
E82	PAR38	2700	18	1250	25	4900	Yes	White	20P38LEDE25D27S
E83	PAR38	3000	18	1550	25	6000	Yes	White	20P38LEDE25D30S
E84	PAR38	2700	18	1550	40	3800	Yes	White	20P38LEDE40D27S
E85	PAR38	3000	18	1550	40	4000	Yes	White	20P38LEDE40D30S
A82	PAR38	2700	17	1150	25	5900	Yes	White	20P38LEDA25D27
A83	PAR38	3000	17	1200	25	5900	Yes	White	20P38LEDA25D30
A84	PAR38	2700	17	1150	40	2500	Yes	White	20P38LEDA40D27
A85	PAR38	3000	17	1200	40	2550	Yes	White	20P38LEDA40D30

LED NORA RAIL
SYSTEM COMPONENTS
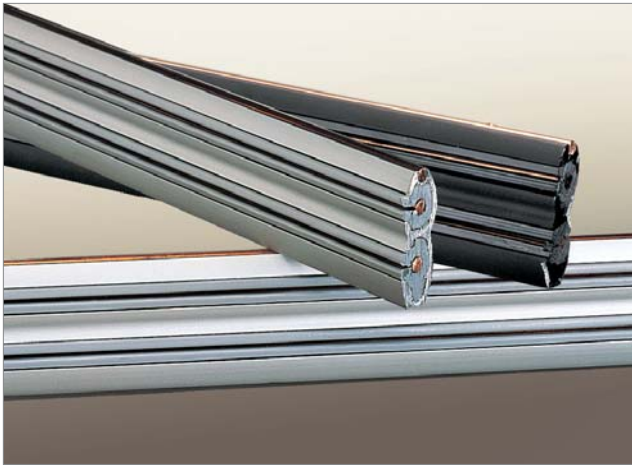
Nora Lighting offers attractive, low profile slim rails for use with any combination of Line Voltage, Low Voltage, Fluorescent, PAR, Metal Halide Fixtures or Pendants. The small blade design makes Nora Rail suitable for residential applications. Internal 20A conductors deliver long runs necessary for commercial and architectural application, allowing 2400 watts on a single, low profile power feed. May be bent to 12-1/2" minimum radius.

Easy installation, attractive finishing elements, and low system cost delivers high-tech design elements within reach of virtually any contemporary design.

Two end caps and one locking Allen key are provided with each section of rail.

Slim, Low Profile Rails

NRS90-P04	4' (1.2M)
NRS90-P06	6'-6" (2M)
NRS90-P08	8' (2.4M)

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Dimensions: Length: 4', 6'-6", and 8'
· Two end caps included

Line Voltage Pre-Bent Rails

Nora Rail can be purchased in straight lengths that are easily cut with a hacksaw and/or field bent to as small as 2ft. diameter circle. Factory pre-bent curves and circles are also available. cULus listed for up to 2400 watts on a single run. Nora Rail is smooth on one side and has bus bars and insulators on the other. On pre-bent rail "I" is used for bus bars on the inside of the curve and "O" for outside of the curve.
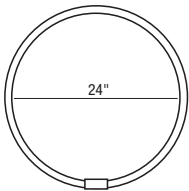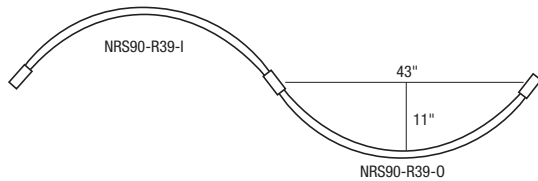
Complete Circle Pre-Bent Rails

NRS90-C12-I   24" Diameter

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
One non-power connector included
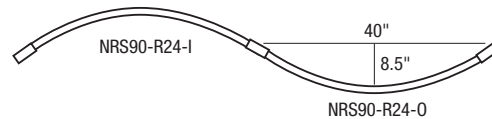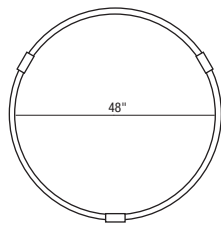(NRS90-N89)
Bus bar on inside curve (I)

24"

NRS90-R39-I
43"
11"
NRS90-R39-O

Curve Pre-bent Rails

NRS90-R24-I	4' (1.2M)
NRS90-R24-O	4' (1.2M)

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

· Two dead end caps included (NRS90-N01)

· **To create an "S" shape** (80" length), order (1) NRS90-R24-I, (1) NRS90-24-O, and (1) NRS90-P81 connector.

· **To create a circle** (48" diameter), order (3) NRS90-R24-I, (2) NRS90-P81 connector, and (1) NRS90-N89

48"

NRS90-R24-I
40"
8.5"
NRS90-R24-O

Soft Curve Pre-Bent Rails

NRS90-R39-I	4' (1.2M)
NRS90-R39-O	4' (1.2M)

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

· Two dead end caps included (NRS90-N01)

· **To create a soft "S" shape** (86" length), order (1) NRS90-R39-I, (1) NRS90-R39-O, and (1) NRS90-P81 connector.

· **To create a circle** (78" diameter), order (5) NRS90-R39-I, (4) NRS90-P81 connector, and (1) NRS90-N89

78"

NORA | NSPEC®
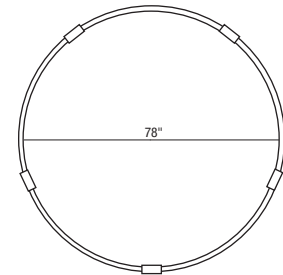
Rail Current Limiter w/Circuit Breaker Canopy

NRS90-P37 (finish)/1	1A / 120W
NRS90-P37 (finish)/2.5	2.5A / 300W
NRS90-P37(finish)/5	5A / 600W
NRS90-P37(finish)/7.5	7.5A / 900W
NRS90-P37(finish)/10	10A / 1200W
NRS90-P37(finish)/12	12A / 1440W
NRS90-P37(finish)/14	14A / 1680W

ORDER EXAMPLE: NRS90-P37BN/14
Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
For use with NRS90-P11, NRS90-P14, NRS90-P17, NRS90-P87, NRS90-P88, NRS90-P89 power stem or NRS90-P90 power canopy with 10'6" cord

Rail Wall Mount Power Canopy

NRS90-P40

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Rail feeds directly into canopy from wall mounted J-Box

Line Voltage Adjustable Slope Canopy for use with Power Stem

NRS90-P10

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
For use with NRS90-P17, NRS90-P87, NRS90-P88 and NRS90-P89 only.

Grounded Cord and Plug with Rail Connector

NRS90-P99	10'

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
To power Track from a standard 3-prong grounded receptacle

Power Canopy and Stem

NRS90-P13	Canopy
NRS90-P11	3" Stem
NRS90-P14	4" Stem
NRS90-P17	7-1/2"-11-1/2" Adjustable Stem

· NRS90-P13 must be used with NRS90-P11, NRS90-P14, NRS90-P17

Canopy and Power Stem sold separately. Rigid power stems with canopy deliver 120V power to rail while providing a clean, streamlined appearance by eliminating bulky, flexible cords. Low profile canopy includes bracket to attach to a standard 4" junction box.

Power Canopy and Stem

NRS90-P15	Canopy
NRS90-P87	12"-24" Adj. Power Stem
NRS90-P88	25-1/4" - 48" Adj. Power Stem
NRS90-P89	49-3/4" - 96" Adj. Power Stem

· NRS90-P15 must be used with NRS90-P87, NRS90-P88, NRS90-P89
· Heavy Cast Iron construction for longer stem application

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

Canopy and Power Stem sold separately. Rigid power stems with canopy deliver 120V power to rail while providing a clean, streamlined appearance by eliminating bulky, flexible cords. Low profile canopy includes bracket to attach to a standard 4" junction box.

Adjustable Power Cord w/ Canopy

NRS90-P90	10'-6"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Cord is field adjustable

Adjustable Power Cord w/ Canopy and Support Cable

NRS90-P91	10'-6"
NRS90-P91-M1	20'

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Cord and cable are field adjustable

Adjustable Power Cord with Rail Connector and Side Feed to Canopy

NRS90-P80	18" cord

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

· To connect rail to line voltage power
· Affixes to wall mount or ceiling mount standard junction box

LIGHTING TIP
To meet stringent watts per square foot requirements use Nora Rail Current Limiter Power Canopy. NEC will rate line voltage rail at 45 watts per foot regardless of load. Use a 2.5A Current Limiter and system will be rated at 300 watts.

LED NORA RAIL
ACCESSORIES

Straight/Slope Ceiling Rail Standoff

NRS90-N73	3"
NRS90-N74	4"
NRS90-N77[1]	8-1/4"-11-1/2"
NRS90-N70[1]	12"-24"
NRS90-N71[1]	25-1/4"-48"
NRS90-N72[1]	49-3/4"-96"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

[1] Telescoping supports allow for easy in the field leveling of rail system

Straight Ceiling Rail Support (Standoff)

NRS90-N14	4"
NRS90-N17[1]	7-1/2"-11-1/2"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

[1] Telescoping supports allow for easy in the field leveling of rail system

Straight Connector

NRS90-P81	Power (live)
NRS90-N89	Non-power

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Connects two rails together and will conduct power or not.

Flexible Live Corner Connector

NRS90-P85	9-1/2"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Attractive, enclosed flexible electrical connection between two rails

Flexible Rail Power Connector

NRS90-P82	20"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Connects two sections of rail where sharp angles prohibit the use of rail bending or for extending power connection through beams or drywall (cable cannot be shortened)

T-Bar Clip and Cover

NRS90-N21	15/16"
NRS90-N22	9/16"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Attaches to all Rail supports:

Track Fixture Adapter for Rail

NRS90-P31

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Allows Line Voltage track fixtures to be mounted to the Rail

Three Prong Plug Adapter for Rail

NRS90-P30

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Allows a power outlet on the Rail

Universal Pendant Adaptor

NRS90-P86

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Allows any Line Voltage Pendant with support wire diameter of 1/4" or less, weighing under 10lbs. and 300W max. to adapt to the Nora Rail System

Adjustable Aircraft Cable Ceiling Rail Support

NRS90-N91	10'
NRS90-N91-M1	20'

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Cable can be easily adjusted in the field with cutting cable and locking cable device.

Adjustable Wall Rail Support (No Power)

NRS90-N18	5-1/2"-8-1/2"
NRS90-N26	8-1/4"-11-1/2"
NRS90-N27	13-1/4"-24"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)

Live L-Connector Power Stem

NRS90-P03
7-1/2" - 11-1/2"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Conducts power from J-Box to Rail
Connects and conducts power to two Rails in a "L" pattern

Live T-Connector Power Stem

NRS90-P01 7-1/2" - 11-1/2"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Conducts power from J-Box to Rail
Connects and conducts power to multiple Rails in a "T" pattern

Live X-Connector Power Stem

NRS90-P02 7-1/2" - 11-1/2"

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Conducts power from J-Box to Rail
Connects and conducts power to multiple Rails in a "X" pattern

Live L-Connector

NRS90-N03

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Use with standard non-power stems
NRS90-N70 series
Connects and conducts power to two Rails in an "L" pattern

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Live X-Connector

NRS90-N02

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Use with standard non-power stems
NRS90-N70 series
Connects and conducts power to multiple Rails in an "X" pattern

Live T-Connector

NRS90-N04

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Use with standard non-power stems
NRS90-N70 series
Connects and conducts power to multiple Rails in a "T" pattern

QuickJack Rail Adapter with Electronic Transformer

NRSE90-P32

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Use with NRS66 series. Patent pending.

Extension Rods for QuickJack

NRS90-P33	6" extension
NRS90-P34	12" extension
NRS90-P35	24" extension

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Rod can be attached to one another
Use with NRS66 series

QuickJack Track Adapter with Electronic Transformer

NTE-370   50W

Finish: Black (B), Silver (S), White (W)
Allows NRS66 Nora Rail series to be put on the standard Track

QuickJack Canopy with Integral Transformer

NRSE90-P47/12

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Includes (1) 60W transformer
For use with NRS66 Series

QuickJack Slope Canopy with Integral Transformer

NRSE90-P12

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Includes (1) 60W transformer
For use with NRS66 Series

QuickJack Shallow Canopy (No Transformer)

NRSE90-P51

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Requires remote transformer.
For use with NRS66 Series

Multi QuickJack Round Canopy with Integral Transformers (3 QuickJacks)

NPE66-203

Finish: Brushed Nickel (BN), Bronze (BZ)
Dimen: 11-7/8" H: 1-3/4"
Includes (3) 60W transformers
For use with NRS66 Series

Multi QuickJack Linear Canopy with Integral Transformers (3 QuickJacks)

NPE66-103

Finish: Brushed Nickel (BN), Bronze (BZ)
W: 26" **L:** 4-1/2" **H:** 1-3/4"
Includes (3) 60W transformers
For use with NRS66 Series

End Cap

NRS90-N01

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
Two end caps included with each rail section

Metal Clamp-on Ring for MR16 lamps

NRS90-N31

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
For use with any fixture with a completely exposed MR16 lamp

MR16 Decorative Ring with Lamp Spring

NRS90-N32

Finish: Brushed Nickel (BN), Bronze (BZ), Silver (S)
For use with NRS11-103, NRS11-104, NRS11-302, NRS11-310, NRS36-103, NRS66-103

MR16 Honeycomb

NT-362   Black (B)

For use with NRS90-N32

MR16 Colored Lenses

NM-100/MR16

Finish: Blue, Yellow, Green, Red, Frosted, Linear, Spread
For use with NRS90-N32

Rail Bending Device

NRS90-N33

Allows custom bending of rail in field

LED Pendant Lighting

Suspended from the ceiling over kitchen center islands, retail counter tops, hospitality lounges or dining tables, pendant lighting can provide focused illumination or a warm ambient glow, depending on the fixtures and light source. Use of a dimmer provides flexibility to vary the light to suit the occasion.

FEATURES

· Pendants available in Monopoint Canopy, Multi-QuickJack Canopy, Track and Rail mounts in multiple light sources
· Large selection of hand-blown art glass

14W LED PENDANT
FOR DECORATIVE GLASS

Canopy,
Track
or Rail
Mount

Nora's 2nd generation LED pendant is now **14 watts and 1100 lumens and 90+CRI**. LED pendant is compatible with over 100 Nora glass shades. Uniquely designed to light the glass as well as providing usable down light, the LED module features an architectural die-cast aluminum heat sink. The dimmable driver is mounted in the canopy. Energy savings has never been so beautiful. Title 24 and Energy star listed.

FEATURES

· Dimmable driver mounted in canopy
· 1100 Lumens using 14 Watts
· 3500K, 90+ CRI using Nichia® LEDs
· Designer heat sink for excellent heat management
· Frosted glass shield evenly distributes the light
· 8.5' field adjustable cord
· Brushed Nickel (BN) or Bronze (BZ)
· Over 60 compatible Nora glass shades

Shown with NRS80-500 Cylinder Glass

14W 3500K LED Pendant Assembly with Canopy Mount

NRS92-P42/35(finish)

LAMP:	Single 10W LED module
FINISH:	**BN** Brushed Nickel, **BZ** Bronze
MOUNT:	Includes integral LED driver
DIMENSIONS:	Heat Sink: 3-3/4" (95mm) Counter Sink: 2-5/8" (67mm) Cord: 8' 6" (259cm), field adjustable
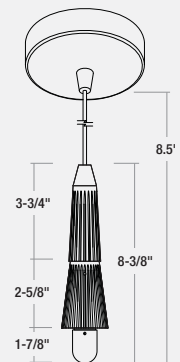
14W 3500K LED Pendant Assembly with Rail Mount

NRS72-453/35(finish)

LAMP:	Single 10W LED module
FINISH:	**BN** Brushed Nickel, **BZ** Bronze)
MOUNT:	Includes integral LED driver
DIMENSIONS:	Heat Sink: 3-3/4" (95mm) Counter Sink: 2-5/8" (67mm) Cord: 8' 6" (259cm), field adjustable
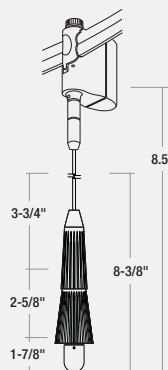
14W 3500K LED Pendant Assembly with Track Mount

NTE-164/35(finish)(adapter finish)

LAMP:	Single 10W LED module
FINISH:	**BN** Brushed Nickel, **BZ** Bronze
ADAPTER FINISH:	**B** Black, **S** Silver, **W** White
MOUNT:	Includes integral LED driver
DIMENSIONS:	Heat Sink: 3-3/4" (95mm) Counter Sink: 2-5/8" (67mm) Cord: 8' 6" (259cm), field adjustable

DECORATIVE GLASS FOR 10W LED PENDANT

CANOPY LED PENDANT ASSEMBLY CAN BE SPECIFIED AND ORDERED AS A COMPLETE FIXTURE

BR Brown   **BU** Blue   **GR** Green

BU Blue

PETALS

Complete Pendant	NRS92(finish)/421(color)
Glass Only	NRS80-421
Diameter	5-3/4" (146 mm)
Length	10" (254 mm)
Color	BR, BU, GR

WAQ White/Aqua   **WGR** White/Green   **WBR** White/Brown
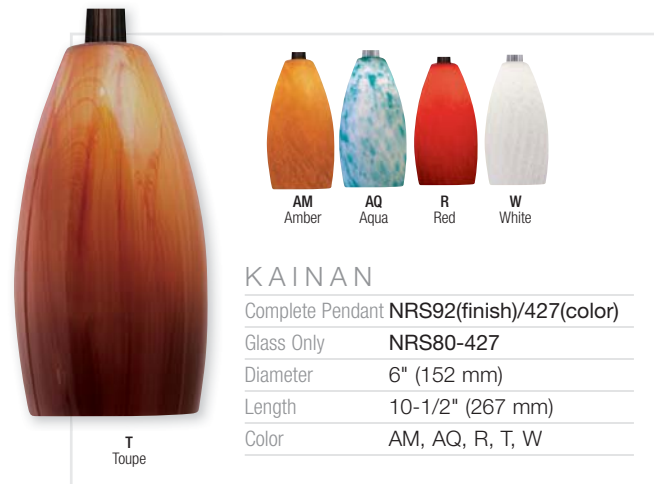
WAQ White/Aqua

KAREN

Complete Pendant	NRS92(finish)/426(color)
Glass Only	NRS80-426
Diameter	4-1/2" (114 mm)
Length	9-1/2" (241 mm)
Color	WAQ, WGR, WBR

AM Amber   **AQ** Aqua   **R** Red   **W** White

T Toupe

KAINAN

Complete Pendant	NRS92(finish)/427(color)
Glass Only	NRS80-427
Diameter	6" (152 mm)
Length	10-1/2" (267 mm)
Color	AM, AQ, R, T, W

AM Amber   **AQ** Aqua   **W** White

T Taupe

MAYA

Complete Pendant	NRS92(finish)/425(color)
Glass Only	NRS80-425
Diameter	5" (127 mm)
Length	10" (254 mm)
Color	AM, AQ, R, T, W

AQ Aqua   **BR** Brown   **T** Taupe   **W** White

R Red

LEILANI

Complete Pendant	NRS92(finish)/428(color)
Glass Only	NRS80-428
Diameter	7" (178 mm)
Length	8-1/2" (216 mm)
Color	BR, R, T, W

NORA | NSPEC®

CANOPY LED PENDANT ASSEMBLY CAN BE SPECIFIED AND ORDERED AS A COMPLETE FIXTURE

AM
Amber

R
Red

BRADY

Complete Pendant	NRS92(finish)/429(color)
Glass Only	NRS80-429
Diameter	5-1/2" (140 mm)
Length	9-1/2" (241 mm)
Color	AM, R

R
Red

FR
Frost

GR
Green

PK
Peacock

RF
Red Fire

ANDROMEDA

Complete Pendant	NRS92(finish)/452(color)
Glass Only	NRS80-452
Diameter	4-7/8" (124 mm)
Length	10-1/4" (260 mm)
Color	FR, GR, PK, RF, SN

SN
Sun

AQ
Aqua

R
Red

BELLA

Complete Pendant	NRS92(finish)/430(color)
Glass Only	NRS80-430
Diameter	4-1/4" (108 mm)
Length	7-1/2" (191 mm)
Color	AQ, R

AQ
Aqua

O
Orange

W
White

CASIE

Complete Pendant	NRS92(finish)/462(color)
Glass Only	NRS80-462
Diameter	5" (127 mm)
Length	10-3/4" (273 mm)
Color	O, W

O
Orange

AM
Amber

R
Red

PAXON

Complete Pendant	NRS92(finish)/432(color)
Glass Only	NRS80-432
Diameter	4-3/4" (121 mm)
Length	7-1/2" (191 mm)
Color	AM, R

R
Red

FERUS LAYERED GLASS

Complete Pendant	NRS92(finish)/471
Glass Only	NRS80-471
Diameter	4-1/4" (108 mm)
Length	5-5/8" (143 mm)
Color	Black on White

Black on
White

DECORATIVE GLASS FOR 10W LED PENDANT

CANOPY LED PENDANT ASSEMBLY CAN BE SPECIFIED AND ORDERED AS A COMPLETE FIXTURE

Magna

SEAN

Complete Pendant	NRS92(finish)/472
Glass Only	NRS80-472
Dia. Mid / Bottom	6"(152 mm) / 2-3/4"(70 mm)
Length	9-1/16" (230 mm)
Color	Magna

White on White

BOLLA LAYERED GLASS

Complete Pendant	NRS92(finish)/477
Glass Only	NRS80-477
Diameter	10-1/4" (260 mm)
Length	7-7/8" (200 mm)
Color	White on White

White /
Brushed
Nickel

CYLINDER

Complete Pendant	NRS92(finish)/500
Glass Only	NRS80-500
Diameter	4-7/8" (124 mm)
Length	15-7/8" (403 mm)
Color	White/Brushed Nickel

White

COCOON

Complete Pendant	NRS92(finish)/473
Glass Only	NRS80-473
Diameter	10-1/4" (260 mm)
Length	6-1/4" (158 mm)
Color	White

NORA | NSPEC®
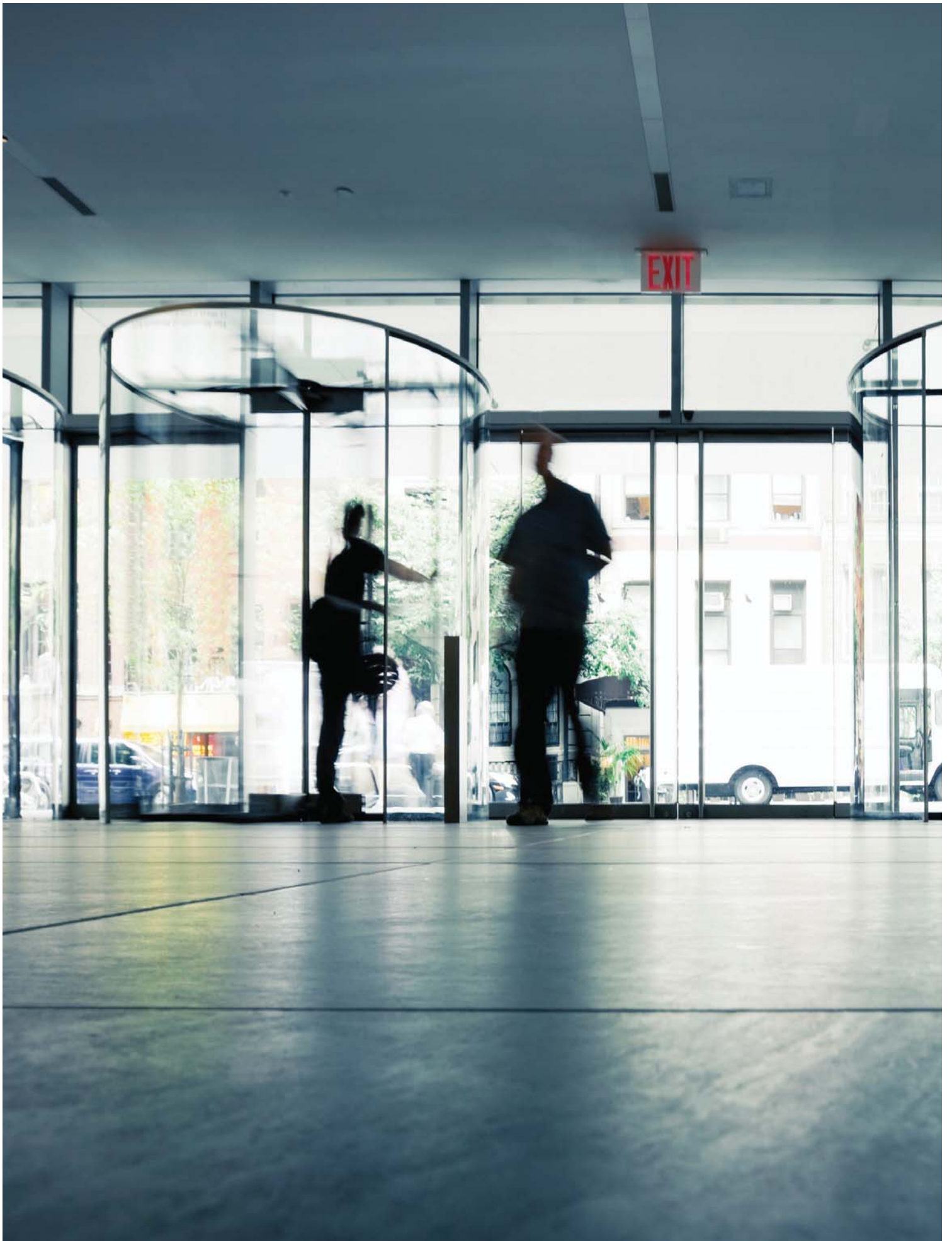
EXIT & EMERGENCY

Building lighting is generally thought of as something that allows occupants to live, move, and work in comfort and safety. Just as importantly, lighting must also help the same people safely and quickly leave a location, whether it is one individual, or a large group.

Situations differ...
They range from those that are simply leaving after a visit, to escaping a catastrophic event.

Environments differ...
The location can be an office building, a restaurant on a beach promenade, a sparsely visited storage area, or an oil rig in the middle of the ocean. The atmosphere can range from dry and hot to air conditioned and cool.

Solutions differ...
Nora Lighting offers fixtures ranging from simple LED emergency lights to efficient LED exit signs, some combined with high performance LED emergency lights. Some have gaskets for salt spray and fog; some have faces that can adjust in the field for wall or ceiling mount. Others have fine brush finished faces to complement architectural settings. Some hang from a wall or ceilings, others are recessed completely inside a ceiling.

One thing remains the same: all Nora signs and fixtures are designed to provide the safest possible egress regardless of the situation, location, or environment and are accessible for virtually any budget consideration.

LED EDGE-LIT EXITS
- Adjustable Face
- Recessed and Surface Mount
- AC, 2-Circuit, and Battery Backup
- Housings in Black, Aluminum, and White
- 120/277V

LED DIE-CAST ALUMINUM EXITS
- Available in Self-Diagnostic
- Brushed Aluminum Face
- AC, 2-Circuit, and Battery Backup
- 120/277V

LED POLYCARBONATE EXITS
- Black and White Housings
- AC, 2-Circuit, and Battery Backup
- Universal - Double Face, Blank Plate
- Ceiling, Wall, or End Mounted
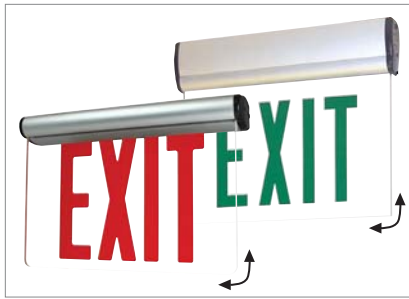- Available for Wet, NEMA-4X locations
- 120/277V

LED EXIT/EMERGENCY COMBINATIONS
- 120/277V
- Adjustable Head Position
- Wet Location with enclosure

EMERGENCY LED LIGHTS
- Low Profile
- Adjustable heads
- Wall or Ceiling Mount
- 120/277V

STEEL BODY LED
- New York City Approved
- 120/277V

EXIT & EMERGENCY
LED EXIT SIGN

Adjustable LED Edge-Lit

NX-810-LED	AC Only
NX-811-LED	2-Circuit
NX-812-LED	Battery Backup
NX-822-LED	Battery Backup & NY Approved

FINISH: Green or Red Letter
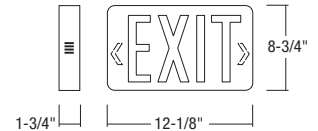Aluminum, Black or White Housing
LISTING: ETL Listed, NEC, NFPA

5/8"
10"
1-5/8"
12"
5-1/2"
4-3/8"
8-1/4"
2-5/8"
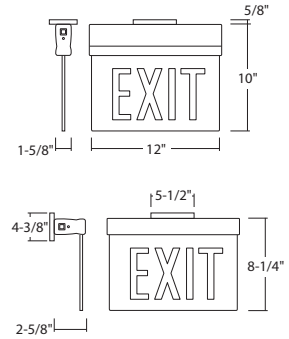
Universal LED Exit Sign

NX-503-LED	AC Only
NX-504-LED	2-Circuit
NX-603-LED	Battery Backup

FINISH: Green or Red Letter,
Black or White Housing
LISTING: UL Listed, NEC, NFPA

8-3/4"
1-3/4"
12-1/8"

Steel LED Exit Sign (NY Approved)

NX-550-LED	Battery Backup

FINISH: Red Letter,
Black or White Housing
LISTING: UL Listed, NEC, NFPA, NY Approved

10-1/2"
4"
12-3/4"

NORA | *NSPEC*®

Recessed Adjustable LED Edge-Lit Exit Sign

NX-813-LED	AC Only
NX-814-LED	2-Circuit
NX-815-LED	Battery Backup

FINISH: Green or Red Letter,
Aluminum or White Housing

LISTING: UL Listed, NEC, NFPA
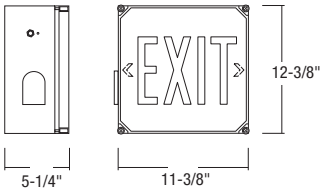
LED Wet Location Exit Sign

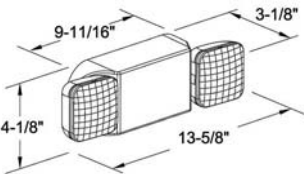|	
NX-607-LED	Battery Backup

FINISH: Green or Red Letter,
White Housing

LISTING: UL Listed for Wet Location, NEC, NFPA
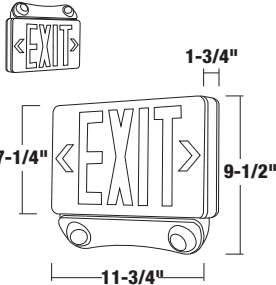
LED Exit & Emergency Combo

NEX-730-LED	Battery Backup

FINISH: Red Letter,
Black or White Housing

LISTING: UL Listed, NEC, NFPA
For Weather proof use with **NEG-730**

LED Mini Dual Head Emergency Light

NE-502	Battery Backup

FINISH: Black or White Housing

LISTING: UL Listed, NEC, NFPA
For Wet Listing use with Enclosure **NEG-50**

NORA | NSPEC®
LIGHTING

LED CATALOG

5TH EDITION

NORA LIGHTING, INC.
6505 Gayhart St.
Commerce, CA 90040
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