

### NEON BLAZE™ NBL1/NBL2/NBL4 Diffused LED Lighting

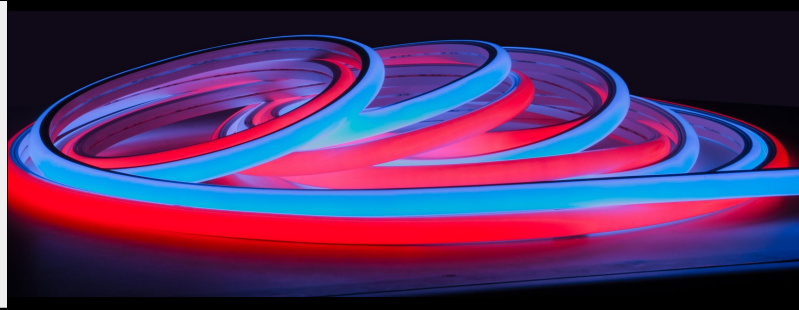
Diffused, neon-like LED lighting with top-bending and side-bending options.  
Available in static white and colors, and suitable for wet locations (IP65).

Date \_\_\_\_\_

Project Notes \_\_\_\_\_

#### FEATURES

- Fully diffused, dotless light
- Top-bending and side-bending options with multiple output levels
- IP65 for wet locations and UV stabilized for outdoor use
- Ideal for coves and other architectural details
- 5 Year limited warranty



#### ORDERING CODES

Order spools, and components for field assembly

#### OPTIONAL ORDERING CODES

Mounting, drivers, and assembly preference

Diode LED	Voltage	Form	Model	CCT		Length	Mounting	Drivers		Delivery
DI										
	24V	SE (Side Bending)  TE (Top Bending)	NBL1  NBL2  NBL4	27 (2700K)  30 (3000K)  35 (3500K)  42 (4200K)  63 (6300K)	BL (Blue)  GL (Gold)  GN (Green)  PK (Pink)  RD (Red)	65 (65.6 foot spool)  32 (32.8 foot spool)  016 (16.4 foot spool)  Custom Length	CHN (Mounting Channel)  SPN (Flexible Mounting Channel)	ELV (Electronic)  010 (0-10V)  MAG (Magnetic)  SWX (Switchex)	O/O (On / Off)  LUT (Lutron)  PoE (Power over Ethernet)	FIELD  HYBRID  FACTORY  *See Delivery Options

Model	24V-SE-NBL1	24V-SE-NBL2	24V-SE-NBL4	24V-TE-NBL1	24V-TE-NBL2	24V-TE-NBL4
<b>Voltage</b>	<b>24V</b>	<b>24V</b>	<b>24V</b>	<b>24V</b>	<b>24V</b>	<b>24V</b>
<b>Wattage</b>	<b>1.22 W/ft.</b>	<b>2.44 W/ft.</b>	<b>4.4 W/ft.</b>	<b>1.22 W/ft.</b>	<b>2.44 W/ft.</b>	<b>4.4 W/ft.</b>
Lumens						
2700K	62/ft.	134/ft.	208/ft.	86/ft.	173/ft.	248/ft.
3000K	65/ft.	146/ft.	198/ft.	102/ft.	219/ft.	317/ft.
3500K	60/ft.	120/ft.	195/ft.	89/ft.	273/ft.	273/ft.
4200K	N/A	N/A	N/A	N/A	N/A	N/A
6300K	59/ft.	116/ft.	173/ft.	88/ft.	266/ft.	266/ft.
Blue	6/ft.	12/ft.	18/ft.	18/ft.	30/ft.	37/ft.
Gold	31/ft.	61/ft.	84/ft.	70/ft.	157/ft.	184/ft.
Green	30/ft.	48/ft.	78/ft.	88/ft.	148/ft.	151/ft.
Pink	17/ft.	37/ft.	53/ft.	39/ft.	93/ft.	110/ft.
Red	11/ft.	21/ft.	34/ft.	31/ft.	61/ft.	64/ft.
Cut Points	2 in.	2 in.	2 in.	2 in.	2 in.	2 in.
Max Run	65 ft.	32 ft.	16 ft.	65 ft.	32 ft.	16 ft.
CRI	80+ CRI	80+ CRI	80+ CRI	80+ CRI	80+ CRI	80+ CRI
Dimensions	0.37 × 0.75 in (W × H)	0.37 × 0.75 in (W × H)	0.37 × 0.75 in (W × H)	0.65 × 0.59 in (W × H)	0.65 × 0.59 in (W × H)	0.65 × 0.59 in (W × H)
Environment	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)
Ambient Temperature	-4 ~ 122°F (-20 ~ 50°C)	-4 ~ 122°F (-20 ~ 50°C)	-4 ~ 122°F (-20 ~ 50°C)	-4 ~ 122°F (-20 ~ 50°C)	-4 ~ 122°F (-20 ~ 50°C)	-4 ~ 122°F (-20 ~ 50°C)
Operating Temperature	-4 ~ 176°F (-20 ~ 80°C)	-4 ~ 176°F (-20 ~ 80°C)	-4 ~ 176°F (-20 ~ 80°C)	-4 ~ 176°F (-20 ~ 80°C)	-4 ~ 176°F (-20 ~ 80°C)	-4 ~ 176°F (-20 ~ 80°C)
Certification	UL Listed 2108	UL Listed 2108	UL Listed 2108	UL Listed 2108	UL Listed 2108	UL Listed 2108
Warranty	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year

### NEON BLAZE™ NBL1/NBL2/NBL4 Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options.  
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Project Notes \_\_\_\_\_

#### RECOMMENDED DRIVERS

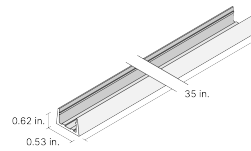
SKU	WATTAGE	LENGTH	WIDTH	HEIGHT
<b>OMNIDRIVE® X</b> Compact electronic dimmable (ELV) driver for everyday projects.				
DI-ODX-24V30W-J	30W	6.5 in.	3.7 in.	1.36 in.
DI-ODX-24V60W-J	60W	7.4 in.	3.7 in.	1.36 in.
DI-ODX-24V96W-J	96W	8.66 in.	3.7 in.	1.36 in.
DI-ODX-24V120W-J	120W	8.66 in.	3.7 in.	1.36 in.
DI-ODX-24V200W-J	200W	10.24 in.	4.92 in.	1.95 in.
<b>SWITCHEX® Driver and Dimmer Switch</b> LED driver and dimmer switch combined in a single gang box.				
DI-24V-SE-60W	60W	1.4 in.	2.1 in.	4.1 in.
DI-24V-SE-100W	100W	1.4 in.	2.1 in.	4.1 in.
<b>VLM Series Constant Voltage LED Drivers</b> Compact constant-voltage LED driver				
VLM60W-24-LPM	60W	8.19 in.	2.94 in.	1.31 in.
VLM100W-24-LPM	100W	8.19 in.	2.94 in.	1.31 in.
<b>Lutron® Hi-lume™ 1% Dimmable LED Drivers</b>				
DI-DM-24V40W-L3D	40W	4.89 in.	4 in.	2.62 in.
DI-DM-24V40W-LTE	40W	4.89 in.	4 in.	2.62 in.
<b>Lutron® Hi-lume Premier 0.1% LED driver</b>				
DI-DM-24V96W-L3D	96W	5.5 in.	2.2 in.	10.5 in.
<b>PoE</b> 24V constant voltage platform, ready for Power over Ethernet (Inquire)				

#### MOUNTING OPTIONS

##### Side Bending

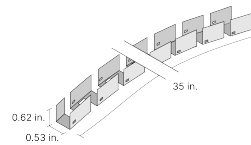
##### DI-SE-NB-MTCH Mounting Channel

Anodized Aluminum Side Bending Mounting Channel



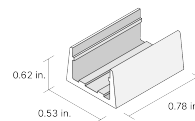
##### DI-SE-NB-FLCH-WH Flexible Mounting Channel

Flexible Side Bending Mounting Channel



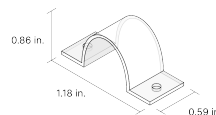
##### DI-SE-NB-BUC-16 Bottom U-Clip (TBC)

Side Bending Mounting Clip



##### DI-SE-NB-TUC-16 Top U-Clip (TTC)

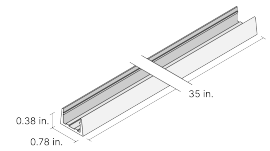
Side Bending Mounting Clip



##### Top Bending

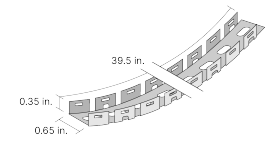
##### DI-TE-NB-MTCH Mounting Channel

Anodized Aluminum Top Bending Mounting Channel



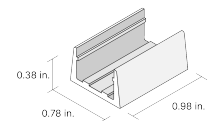
##### DI-TE-NB-FLCH-WH Flexible Mounting Channel

Flexible Top Bending Mounting Channel



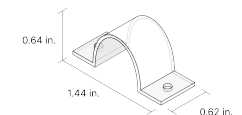
##### DI-TE-NB-BUC-16 Bottom U-Clip (TBC)

Top Bending Mounting Clip



##### DI-TE-NB-TUC-16 Top U-Clip (TTC)

Top Bending Mounting Clip



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Available in static white and colors, and suitable for wet locations (IP65).

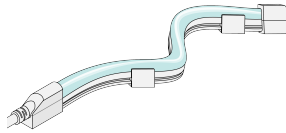
Date \_\_\_\_\_

Project Notes \_\_\_\_\_

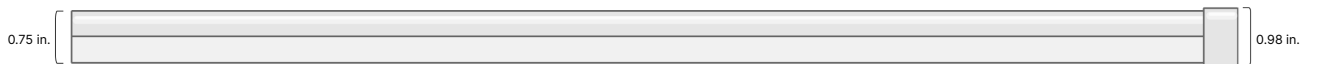
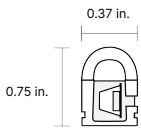
### MECHANICAL DIAGRAMS

#### Side Bending

24V-SE-NBL1

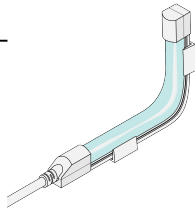


✂ Cut Points: 2 in.

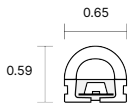


#### Top Bending

24V-TE-NBL1

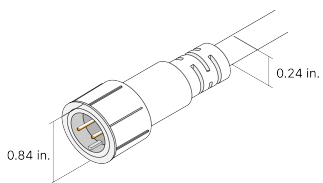


✂ Cut Points: 2 in.

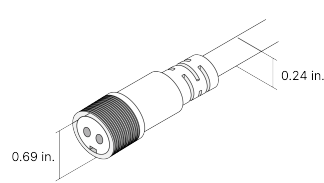


### Connections

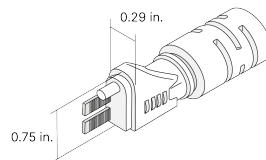
#### Male Connector



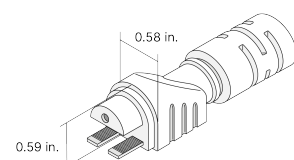
#### Female Connector



#### Side Bending Connector



#### Top Bending Connector



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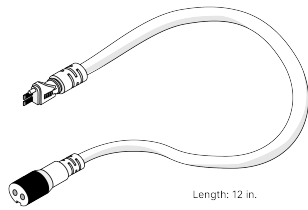
Date \_\_\_\_\_

Project Notes \_\_\_\_\_

#### SIDE BENDING Accessories (Not included)

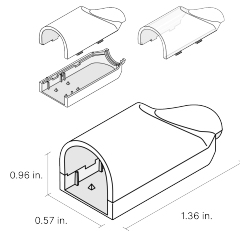
##### DI-SE-NB-STWC-EC Straight Wire Entry Connector

16 AWG, side bending connector



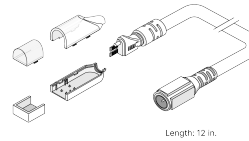
##### Side Bending Opaque and Frosted Covers

Included with side bending straight wire entry connector



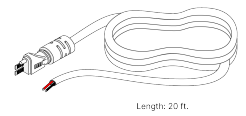
##### DI-SE-NB-SDWC-EC-FDC DC Barrel Plug

16 AWG, Side Bending Straight Wire Entry Frosted DC Connector



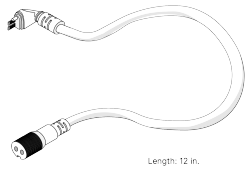
##### DI-SE-NB-STBW-20 Straight wire entry Connector

16 AWG, 20 foot, Bare Lead Side Bending Connector



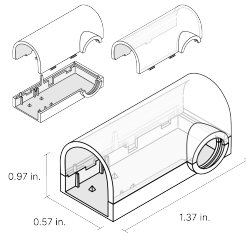
##### DI-SE-NB-SDWC-EC Side Wire Entry Connector

16 AWG, side bending connector



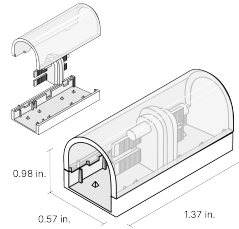
##### Side Bending Opaque and Frosted Covers

Included with side bending side wire entry connector



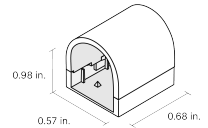
##### DI-SE-NB-TTT-2 Strip-to-Strip Connector

Frosted Side Bending Strip-to-Strip Connector



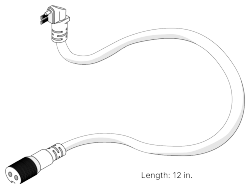
##### DI-SE-NB-EC-5 Side Bending End Cap

Included with all Connectors



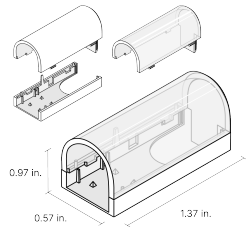
##### DI-SE-NB-BWC-EC Bottom Wire Entry Connector

16 AWG, side bending connector



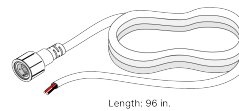
##### Side Bending Opaque and Frosted Covers

Included with side bending bottom wire entry connector



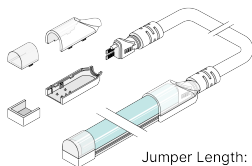
##### DI-NB-96M-CNCT Male Connector

16 AWG, 96 inch, Bare Lead Connector



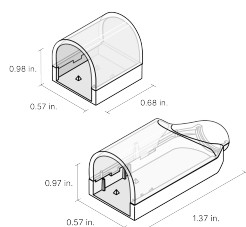
##### DI-SE-NB-JPR Straight Wire Entry Jumper

Side bending jumper with various lengths



##### Side Bending Frosted Cover and End Cap

Included with straight wire entry Jumper



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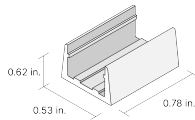
Date \_\_\_\_\_

Project Notes \_\_\_\_\_

#### TOP BENDING Accessories (Not included)

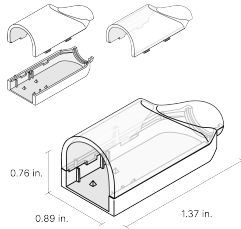
##### DI-SE-NB-BUC-16 Bottom U-Clip (TBC)

Side Bending Mounting Clip



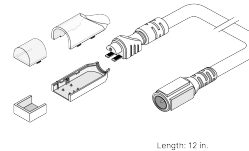
##### Top Bending Opaque and Frosted Covers

Included with Top Bending Straight Wire Entry Connector



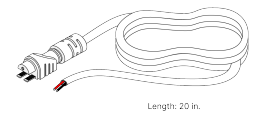
##### DI-TE-NB-SDWC-EC-FDC DC Barrel Plug

16 AWG, Top Bending Straight Wire Entry Frosted DC Connector



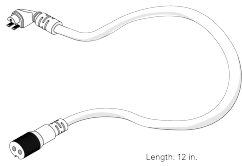
##### DI-TE-NB-STBW-20 Straight Wire Entry Connector

16 AWG, 20 foot, Bare Lead Top Bending Connector



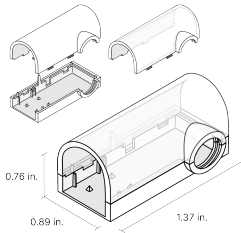
##### DI-TE-NB-SDWC-EC Side wire Entry Connector

16 AWG, Top Bending Connector



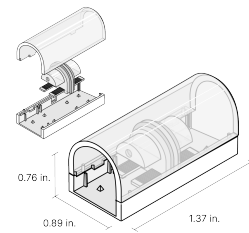
##### Top Bending Opaque and Frosted Covers

Included with Top Bending Top Wire Entry Connector



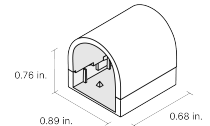
##### DI-TE-NB-TTT-2 Strip-to-Strip Connector

Frosted Top Bending Strip-to-Strip Connector



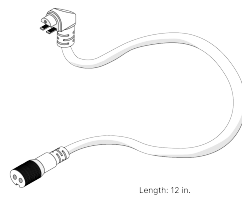
##### DI-TE-NB-EC-5 Top Bending End Cap

Included with all Connectors



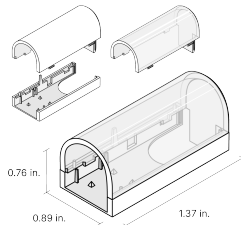
##### DI-TE-NB-BWC-EC Bottom Wire Entry Connector

16 AWG, Top Bending Connector



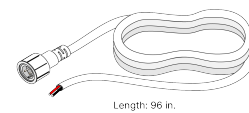
##### Top Bending Opaque and Frosted Covers

Included with Top Bending Bottom Wire Entry Connector



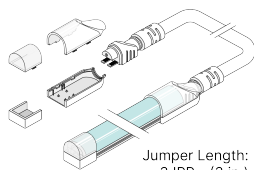
##### DI-NB-96M-CNCT Male Connector

16 AWG, 96 inch, Bare Lead Connector



##### DI-TE-NB-JPR Straight Wire Entry Jumper

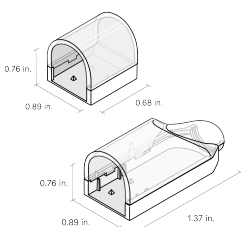
Top Bending Jumper with various lengths



Jumper Length:  
3JPR - (3 in.)  
6JPR - (6 in.)  
12JPR - (12 in.)  
24JPR - (24 in.)

##### Top Bending Frosted Cover and End Cap

Included with Straight Wire Entry Jumper



#### DELIVERY OPTIONS

- Field Assembly

Stock items for in-field assembly. Fastest order fulfillment.

- Factory + Field

Finished lengths of light with leads. Channels either bulk or factory finished. Some field assembly required.

- Factory Assembly

Fastest installation: fixtures fully assembled in the factory.

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#### CERTIFICATIONS

##### Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- CE & EMC Compliant.
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5.

##### Environmental

- RoHS Compliant.

##### Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

#### Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
6. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
9. Do not modify product beyond instructions or warranty will be void.
10. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
11. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
12. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

#### WARRANTY

##### Limited Warranty

- 5 Years

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.diodeled.com/limited-warranty/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

##### Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.