

# diode led<sup>®</sup> OPTICS BY DIODE LED<sup>®</sup> Flexible Strip Light

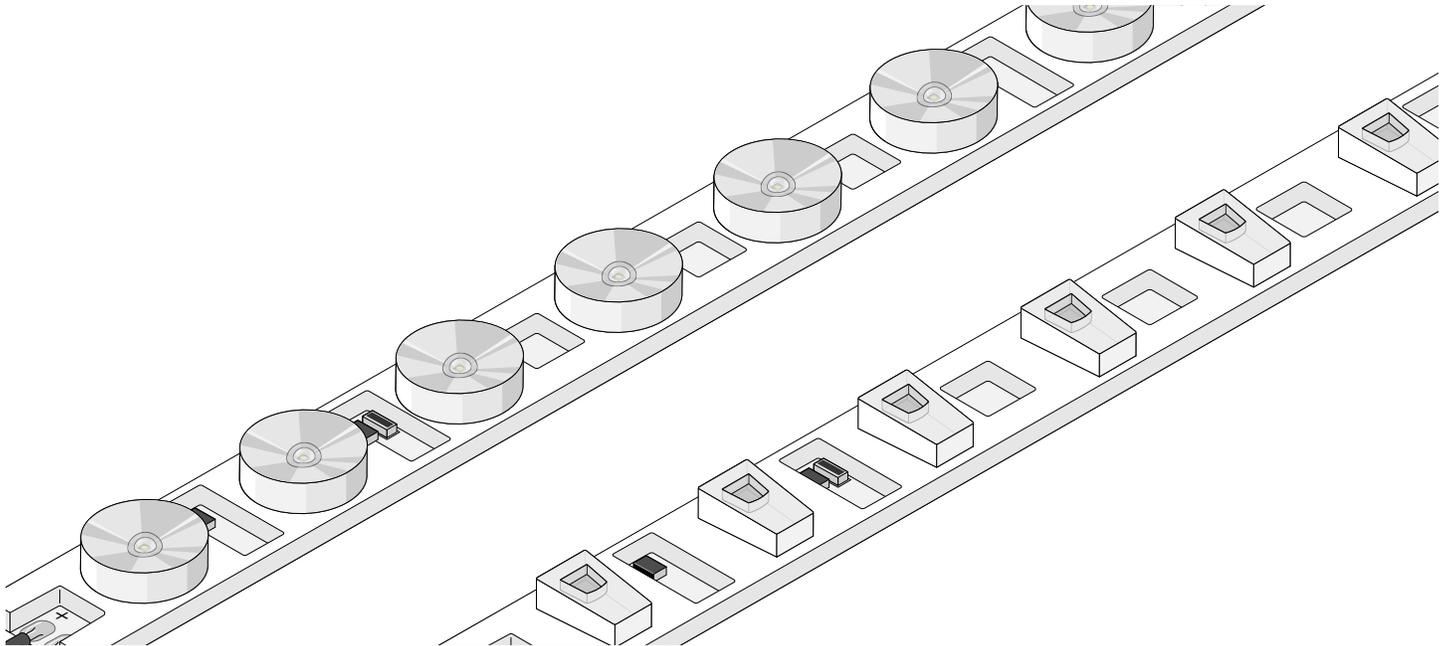
a division of elemental LED

SPECIFICATION SHEET



Item #

Project



DI-24V-N09		NARROW (NA)	ASYMMETRICAL (AS)
<b>Voltage</b>		24V	
<b>Wattage</b>		8.18W/ft.	
<b>Lumens<sup>1</sup></b>	<b>3000K</b>	731 Lm/ft.	731 Lm/ft.
	<b>3500K</b>	755 Lm/ft.	755 Lm/ft.
<b>Max. Run<sup>2</sup></b>		10 feet	
<b>Cut Points</b>		6 inches	
<b>CRI</b>		90+	
<b>Dimmable</b>		Yes	
<b>Field Cuttable</b>		Yes	
<b>Dimensions</b>		0.35 x 0.72 in. (H x W) (Narrow Angle)	0.38 x 0.72 in. (H x W) (Asymmetrical)
<b>Beam Angle</b>		15° x 15°	Asymmetrical
<b>Environment*</b>		Outdoor / Wet Location / IP67	
<b>Certification</b>		ETL Listed	
<b>Warranty</b>		5-Year Warranty	

**\*WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS**

© 2019 Elemental LED, Inc. All rights reserved.  
Specifications are subject to change without notice.

Toll Free: 877.817.6028 | Fax: 415.592.1596 | [www.DiodeLED.com](http://www.DiodeLED.com) | [info@DiodeLED.com](mailto:info@DiodeLED.com)

# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## SKU BUILDER

DI

24V

NO9

10

Voltage
Type
CCT
Model
Length

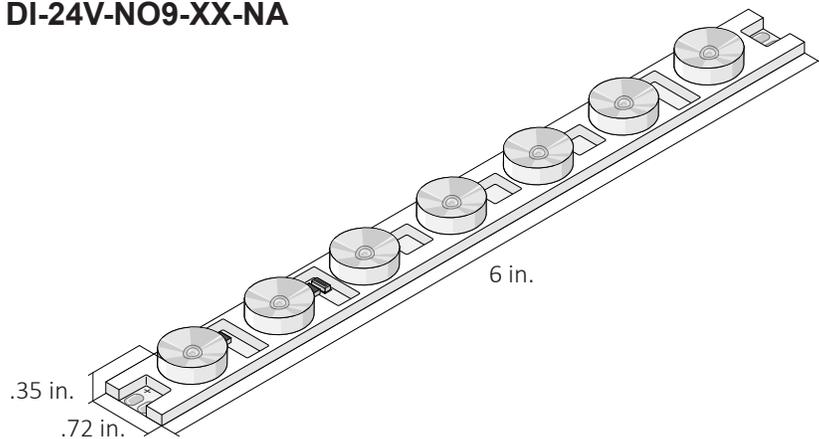
CCT
30K
35K

MODEL
NA
AS

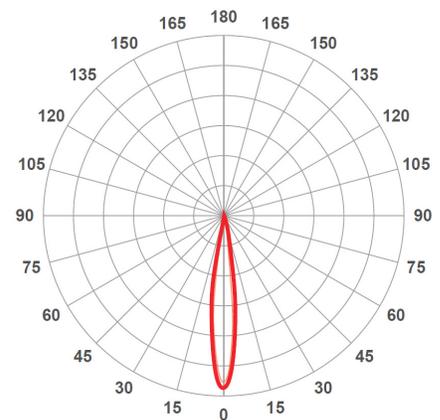
Example: DI-24V-NO9-30K-NA-10 = Diode LED, OPTICS BY DIODE LED®, 3000 CCT, Narrow Angle, 10' long spool.

## MECHANICAL DIAGRAMS

OPTICS BY DIODE LED® Strip Light (Narrow Angle)  
**DI-24V-NO9-XX-NA**

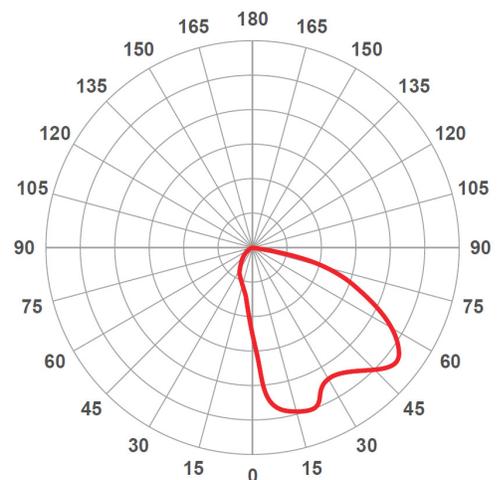
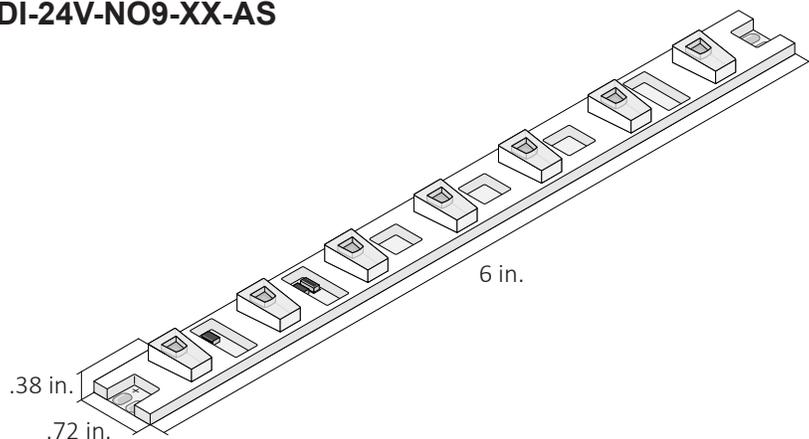


PHOTOMETRICS (Narrow Angle)



OPTICS BY DIODE LED® Strip Light (Asymmetrical)  
**DI-24V-NO9-XX-AS**

PHOTOMETRICS (Asymmetrical)



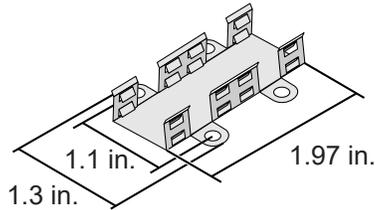
# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## ADDITIONAL ACCESSORIES

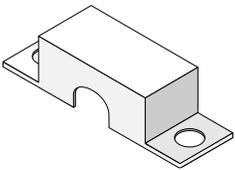
OPTICS BY DIODE LED® Mounting Clip

**DI-NO-MTCL**



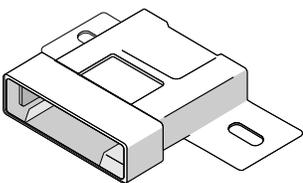
OPTICS BY DIODE LED® Strain Relief

**DI-NO-STRAIN**



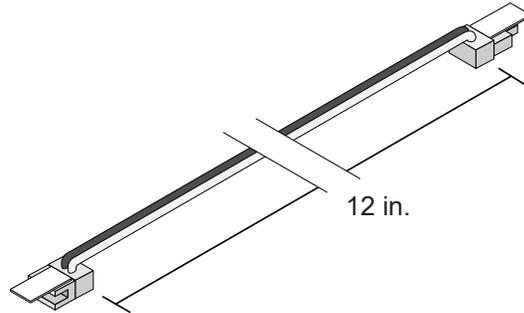
OPTICS BY DIODE LED® Termination Cap

**DI-NO-TC**



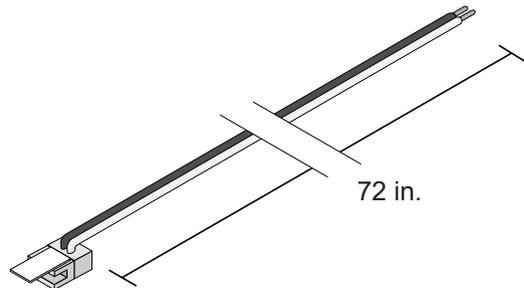
OPTICS BY DIODE LED® Extension Cable

**DI-NO-EXT-12**



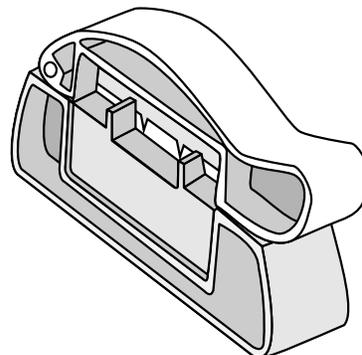
OPTICS BY DIODE LED® Splice Cable

**DI-NO-SPL-72**



OPTICS BY DIODE LED® Cutter

**DI-NO-CUTTER**



# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## LED DRIVERS (Required)

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

## STAND ALONE

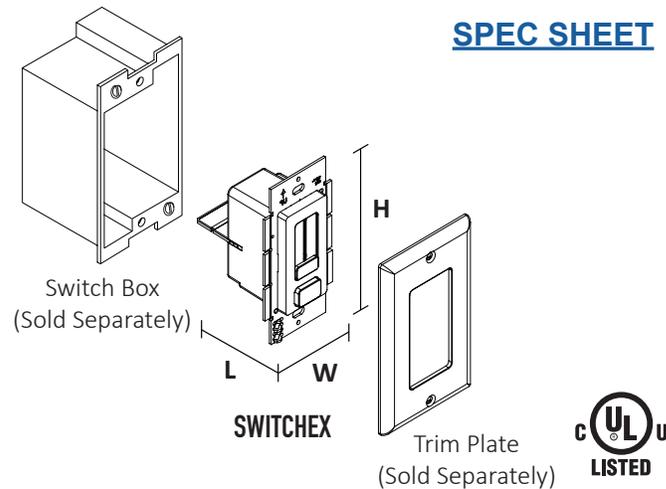
### SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

DI — 24V — SE — 60W

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-24V-SE-60W	1.40 in.	2.10 in.	4.10 in.
DI-24V-SE-100W	1.40 in.	2.10 in.	4.10 in.

Fits in Standard Switch Box



[SPEC SHEET](#)

## ON/OFF, DMX, & PWM CONTROL

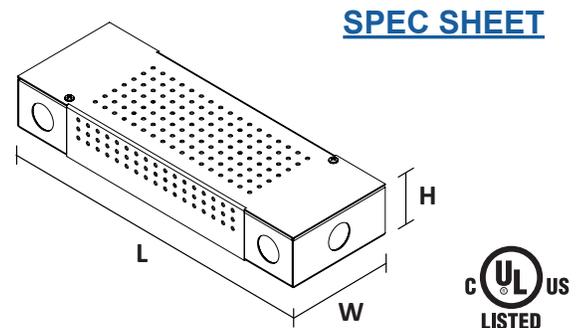
### LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

DI — 0970 — LPS

Junction Box

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-0970-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V60W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V90W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-0954-LPL	13.5 in.	4.5 in.	2.37 in.



[SPEC SHEET](#)

# OPTICS BY DIODE LED® Flexible Strip Light

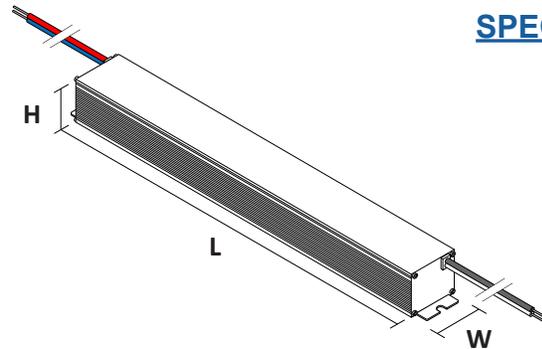
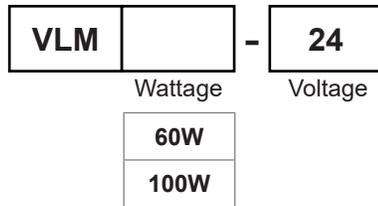
SPECIFICATION SHEET

## LED DRIVERS Cont. (Required)

### ON/OFF, DMX, & PWM CONTROL (cont.)

#### VLM SERIES CONSTANT VOLTAGE DRIVER

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.



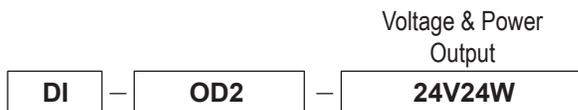
[SPEC SHEET](#)

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
VLM60W-24	5.1 in.	.75 in.	.77 in.
VLM100W-24	5.38 in.	1 in.	.77 in.

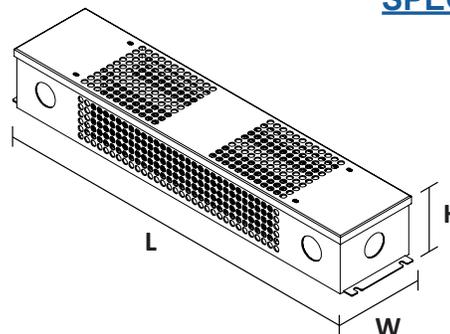


#### OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: <https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf/>



SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-OD2-24V24W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V60W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V96W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V120W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V200W	16.10 in.	3.40 in.	2.40 in.



[SPEC SHEET](#)



# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## LED DRIVERS (Required)

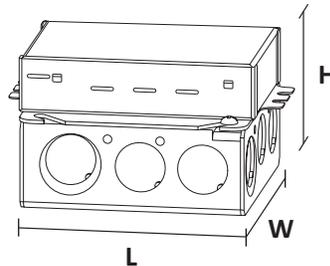
### LUTRON OPTIONS

#### LUTRON® Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.

	Voltage & Power Output	3-Wire or 2-Wire Dimmers
DI-DM	24V40W	L3D

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V40W-L3D	4.89 in.	4.00 in.	2.62 in.
DI-DM-24V40W-LTE			



[L3D SPEC SHEET](#)  
[LTE SPEC SHEET](#)

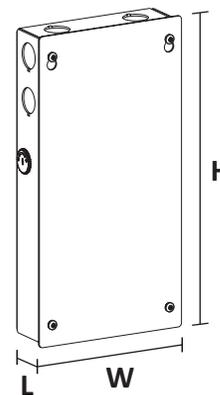


#### LUTRON® Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.

	Voltage & Power Output	
DI-DM	24V96W	L3D

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V96W-L3D	5.50 in.	2.20 in.	10.50 in.



[SPEC SHEET](#)



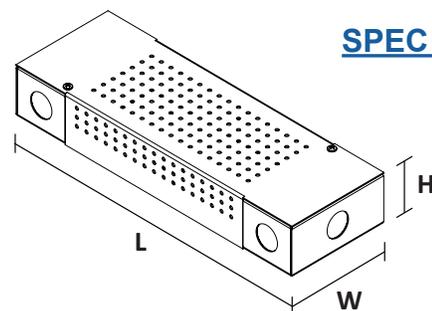
## 0-10V

#### LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER

Compatible with 0-10V controls and dimming systems.

		Junction Box
DI-DM	MW24V60W	0-10V LPS

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-MW-24V60W-0-10V-LPS	11.25 in.	3.75 in.	1.90 in.
DI-DM-MW-24V90W-0-10V-LPL	13.5 in.	4.5 in.	2.37 in.



[SPEC SHEET](#)



# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## SPECIFICATIONS

- Input: 24VDC Constant Voltage
- Luminous Efficacy<sup>3</sup>: 89.4 Lm/ft.
- Material: UV/IR resistant silicone
- Mounting (sold separately): Bottom U-Clip
- Connections: **Sold Separately** (See page 3 for details)
- Ambient Temp<sup>4</sup>: -4 - 122°F (-20 ~ 50°C)
- Operating Temp<sup>5</sup>: -4 - 176°F (-20 ~ 80°C)
- Flammability<sup>6</sup>: Flame retardant

## COMPLIANCE & REGULATORY APPROVALS

### Safety

- ETL Listed. Certified for United States and Canada.

### 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.

## COMPATIBLE DRIVERS

Additional information on compatible Drivers can be found on the Diode LED web site at: [www.DiodeLED.com](http://www.DiodeLED.com).

1. Lumen value measured in accordance to IES LM-79. LED chips have a luminous flux range with a tolerance of +/- 5%.
2. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
3. Actual efficacy value is dependent on specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
4. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
5. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
6. This product has been tested and passed glow-wire flammability tests (GWFI index) at 650°C/1200°F, providing an extra level of safety for common areas, hospitality, and areas of high risk fire.

# OPTICS BY DIODE LED® Flexible Strip Light

SPECIFICATION SHEET

## ADDITIONAL INFORMATION

- OPTICS BY DIODE LED® FLEXIBLE STRIP LIGHT Installation Guide

## 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 install with a listed Class 2 DC LED Driver.
4. Not for use in or on walls of pools, fountains, or other partially or fully submersed locations.
5. Do not modify or disassemble product beyond instructions or this warranty will be void.
6. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
7. 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

This product has a five (5) year limited warranty from the date of shipment. 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 an 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 purchaser 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.



© 2019 Elemental LED, Inc. All rights reserved.  
Specifications are subject to change without notice.

Toll Free: 877.817.6028 | Fax: 415.592.1596 | [www.DiodeLED.com](http://www.DiodeLED.com) | [info@DiodeLED.com](mailto:info@DiodeLED.com)