

SPECIFICATION SHEET















Item #
Project



		12V-BLX1	12V-BLX2	12V-BLX3	24V-BLX1	24V-BLX2	24V-BLX3	
Voltage		12VDC		24VDC				
Wattage		1.54W /ft	3.1W /ft	4.3W /ft	1.54W /ft	3.1W /ft	4.3W /ft	
Lumens	2000K	N/A		92/ft	181/ft	261/ft		
	2400K	110/ft	225/ft	318/ft	114/ft	226/ft	322/ft	
	2700K	109/ft	221/ft	305/ft	112/ft	224/ft	318/ft	
	3000K	122/ft	247/ft	339/ft	126/ft	253/ft	360/ft	
	3500K	126/ft	241/ft	352/ft	131/ft	254/ft	357/ft	
	4200K	127/ft	254/ft	349/ft	133/ft	264/ft	365/ft	
	5000K	128/ft	262/ft	358/ft	135/ft	264/ft	378/ft	
	6300K	121/ft	273/ft	380/ft	123/ft	276/ft	393/ft	
Cut Points		2 in.	1 in.	1 in.	4 in.	2 in.	2 in.	
Max. Run²		37 ft.	22 ft.	20 ft.	70 ft.	45 ft.	40 ft.	
Max. Run² (Class 2)		37 ft.	19 ft.	14 ft.	62 ft.	31 ft.	22ft.	
LED Chips		18/ft	36/ft. 18/ft 36/ft.			ft.		
Color Temperature		2000K, 2400K, 2700K, 3000K, 3500K, 4200K, 5000K, 6300K						
CRI		95+						
Dimmable		Yes						
Dimensions		0.32 x 0.1 in. (W x H)						
Environment ³		Indoor / Damp Location						
Certification		UL Listed 2108						
Warranty		12-Year Warranty						



Example: DI-12V-BLX3-27-SP16 = Diode LED, 12 Volt, BLAZE™ X, Type 3, 2,700° CCT, 16.4' spool.

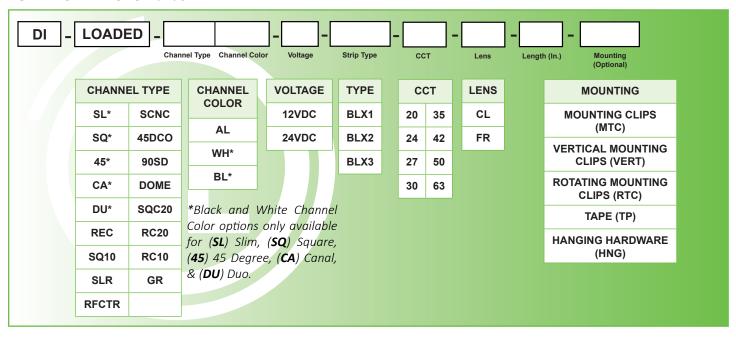
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Toll Free: 877.817.6028 | Fax: 415.592.1596 | <u>www.DiodeLED.com</u> | info@DiodeLED.com

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FULLY LOADED CHANNELS

FULLY LOADED SKU Builder

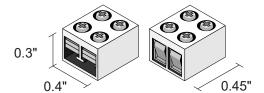


Example: DI-LOADED-SQBL-24V-BLX3-CL-36 = Diode LED, Fully Loaded, Square, Black Channel, 24 Volt, $BLAZE^{TM} X 300$, Clear Lens, 36 inches, 96" Lead Wire.

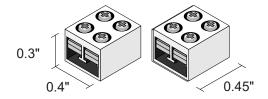
NOTE: Channels are not required for use as a heat sink

MECHANICAL DIAGRAM

TERMINAL BLOCK CONNECTOR (Tape-to-Wire) DI-TB-CONN-TTW



TERMINAL BLOCK CONNECTOR (Tape-to-Tape) DI-TB-CONN-TTT

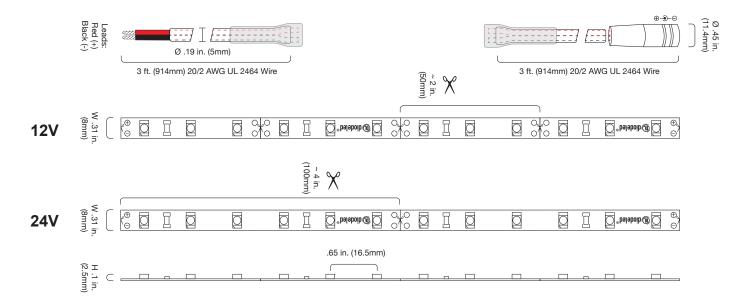


- 1. Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- 2. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- 3. 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.
- 4. Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- 5. Operating temperature is measured according to the minimum and maximum ambient temperature environment.

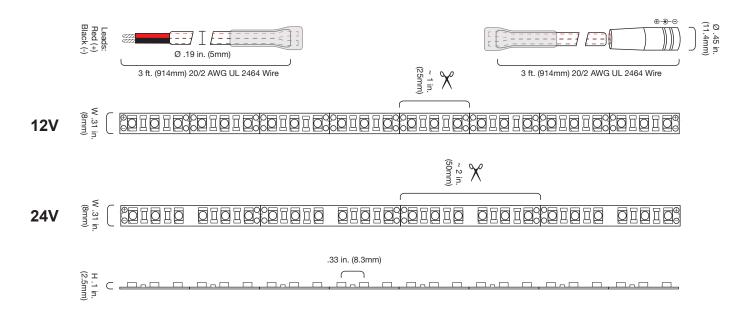
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MECHANICAL DIAGRAMS

BLAZE™ X 100



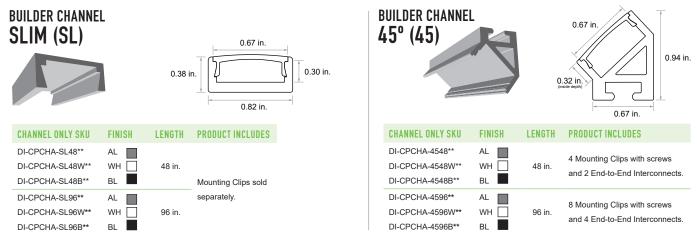
BLAZE™ X 200 & 300



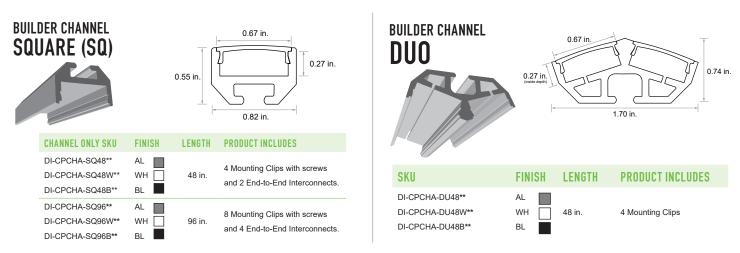
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BUILDER CHANNELS

NOTE: Builder channel covers are sold separately.



^{** -} SKUs listed above are for Single Channels only. Add a -10 for a 10 pack bundle (10 pack will include 10x the amount included accessories)



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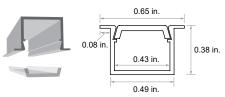
NOTE: Channels are not required for use as a heat sink

SPECIFICATION SHEET

CHANNEL BUNDLE

NOTE: CHANNEL Bundles are not interchangeable with each other nor compatible with Builder channels.

CHANNEL BUNDLE SLIM RECESSED (SLR)



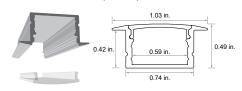
CHANNEL ONLY SKU

DI-CPCHA-SI R48 DI-CPCHA-SLR96

PRODUCT INCLUDES

- · 48 and 96 in. channel & frosted cover
- End caps: 1x open square, 1x open round. 1x closed square.

CHANNEL BUNDLE RECESSED (REC)



CHANNEL ONLY SKU

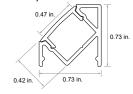
DI-CPCHR-RFC-48 DI-CPCHB-REC-96

PRODUCT INCLUDES

- 48 and 96 in. channel & frosted cover End caps: 1x open, 1x closed
 - Mounting hardware

CHANNEL BUNDLE 45° DECO (45DC)





CHANNEL ONLY SKU

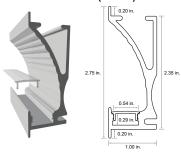
48 & 96 in. channel & frosted cover

- DI-CPCHR-45DCO-48 DI-CPCHB-45DCO-96
 - End caps: 1x open, 1x closed

PRODUCT INCLUDES

Mounting hardware

CHANNEL BUNDLE REFLECTOR (RFC)

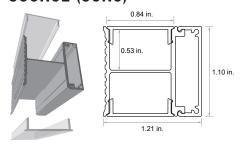


CHANNEL ONLY

PRODUCT INCLUDES

- DI-CPCHB-RFCTR-48
- 48 and 96 in. channel & frosted cover • End caps. 1x open, 1x closed

CHANNEL BUNDLE SCONCE (SCNC)



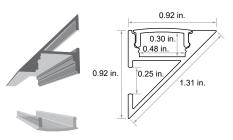
CHANNEL ONLY

PRODUCT INCLUDES SKU

DI-CPCHR-SCNC-48 DI-CPCHB-SCNC-96

- 48 and 96 in. channel, 48 in. mounting plate, 2x frosted covers
- End caps, 1x open, 1x closed

CHANNEL BUNDLE 90° SIDEVIEW (90DC)



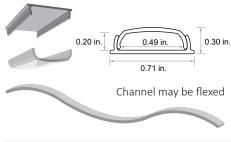
CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-REC-48 DI-CPCHB-REC-96

- · 48 and 96 in, channel & frosted cover
- End-caps: 1x open, 1x closed
- Mounting hardware

CHANNEL BUNDLE WAVEFORM (WF)



CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-WF-48

- · 48 and channel & frosted cover
- End caps: 1x open, 1x closed
- 2x mounting clip

CHANNEL BUNDLE 10mm SQUARE CORNER (SQ10)



CHANNEL ONLY SKU

PRODUCT INCLUDES

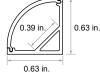
DI-CPCHB-SQC10-48 DI-CPCHB-SQC10-96 48 and 96 in. channel & frosted

0.63 in.

- End-caps: 1x open, 1x closed
- Mounting hardware

CHANNEL BUNDLE 10mm ROUNDED CORNER (RC10)





CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-RC10-48 DI-CPCHB-RC10-96

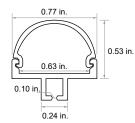
- 48 and 96 in. channel & frosted cover
- End-caps: 1x open, 1x closed
- Mounting hardware

SPECIFICATION SHEET

CHANNEL BUNDLE (CONT.)

CHANNEL BUNDLE DOME (DME)





CHANNEL ONLY SKU

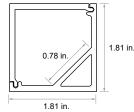
PRODUCT INCLUDES

DI-CPCHB-DOME-48 DI-CPCHB-DOME-96

- 48 and 96 in. channel & frosted cover
- End caps, 1x open, 1x closed
- · 2x pendant hardware

CHANNEL BUNDLE 20mm SQUARE CORNER (SQ20)





CHANNEL ONLY SKU

· 48 and 96 in. channel & frosted cover

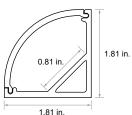
- DI-CPCHB-SOC20-48 DI-CPCHB-SQC20-96
- End-caps: 1x open, 1x closed

PRODUCT INCLUDES

· Mounting hardware

CHANNEL BUNDLE 20mm ROUNDED CORNER (RC20)





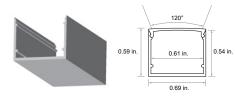
CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-RC20-48 DI-CPCHB-RC20-96

- · 48 and 96 in, channel & frosted cover
- End-caps: 1x open, 1x closed Mounting hardware

CHANNEL BUNDLE CANAL (CA)



CHANNEL ONLY

PRODUCT INCLUDES

DI-CPCHB-CAN48

- 48 and 96 in. channel & opal cover
- End caps: 1x open, 1x closed • 2x mounting clip
- 96 in, channel & opal cover
- DI-CPCHB-CAN96 • End caps: 2x open, 2x closed
 - 4x mounting clip

CHANNEL BUNDLE GRAZER NARROW BEAM (GRZNB)



SKU

DI-CPCHB-GZRNB-48

DI-CPCHB-GZRNB-96

- · 48 in. channel & clear matte optic lens End caps: 48 in. 1x open, 1x closed
- · 2x mounting clip
- 96 in, channel & clear matte optic lens
- End caps: 2x open, 2x closed
- 4x mounting clips

NOTE: Channels are not required for use as a heat sink

SPECIFICATION SHEET

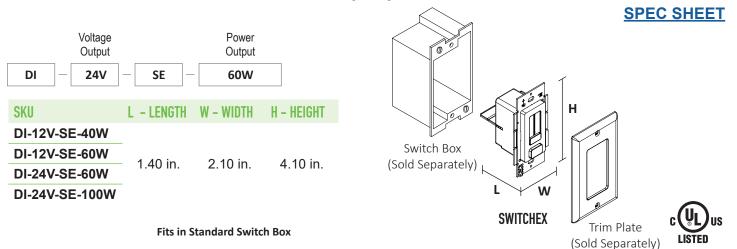
COMPATIBLE PRODUCTS

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

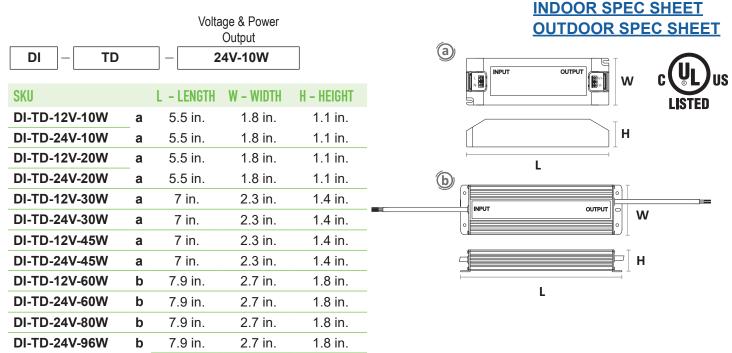
SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.



ELECTRONIC DRIVERS

OMNIDRIVE® 24V ELECTRONIC DIMMABLE LED DRIVER

Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: https://www.diodeled.com/custom/download/productFile/filename/dimmer-master-compatibility-quide.pdf/



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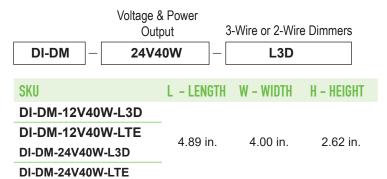
COMPATIBLE PRODUCTS

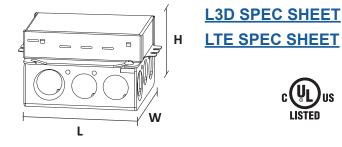
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: https://www.diodeled.com/products/led-power-supplies.html

LUTRON OPTIONS

LUTRON. Hi-lume 1% LED DIMMABLE DRIVER

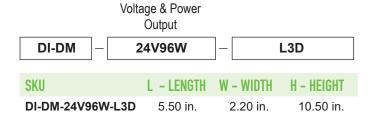
Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.

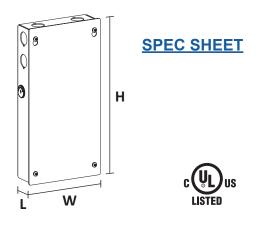




LUTRON. Hi-lume Premier 0.1% LED DIMMABLE DRIVER

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





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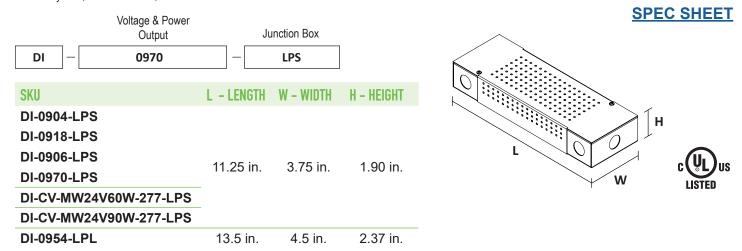
COMPATIBLE PRODUCTS

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

ON/OFF. DMX. & PWM CONTROL

LO-PRO® JUNCTION BOX & DRIVER COMBO - 12/24V 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.



SPECIFICATION SHEET

ACCESSORIES

BUILDER CHANNEL COVERS (individual*) - SLIM / SQUARE / 45° / DUO

		'			
SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION	
DI-CPCHC-FR48**	Frosted	Frosted Cover (48 in.)		Protects LED tape light and slightly softens light. Note: there is an average	
DI-CPCHC-FR96**	Frosted	Frosted Cover (96 in.)	Single or 10 Pack	warm shift in Kelvin of 35K and an average 28% decrease in delivered lumens.	
DI-CPCHC-CL48**	Clear	Clear Cover (48 in.)		Protects LED tape light with no visible	
DI-CPCHC-CL96**	Clear	Clear Cover (96 in.)		color shift or change in delivered lumens.	

*not for use with Fully Loaded Channels

BUILDER CHANNEL MOUNTING OPTIONS - SLIM

SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION	
DI-1633	N1/A	SLIM Mounting Tape	4 ft. x 0.75 in.	3M® high-bond double-sided adhesive	
DI-1634	− N/A		12 ft. x 0.75 in.	 tape designed to install the channel SLIM on a flat, indoor surface. 	
DI-CPCH-UC-BA DI-CPCH-UC-WH DI-CPCH-UC-BL	AL WH BL	SLIM Mounting U-Clips	Pack of 2 clips / 4 screws	Secure SLIM Channel to flat surface with this pressure-fit clip. Also compatible when installed with PREMIUM DIFFUSION cover. Adds 0.12in. height to channel.	

BUILDER CHANNEL MOUNTING OPTIONS - SOLIARE / 45° / DUO

BUILDER CHANNEL MOUNTING OPTIONS - SQUARE / 45° / DUO							
SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION			
DI-CPMC2-SCR4	Charl	Mounting Clips	Pack of 2 clips / 4 screws	Secure channel to flat surface with this			
DI-1630-20	– Steel	(MTC)	Pack of 20 clips / 40 screws	 pressure-fit clip. Adds 0.12in. height to channel. 			
DI-1912	Steel	Vertical Mounting Brackets (VERT)	Pack of 2	Used to install channel in a vertical orientation and includes an Allen key and allen screws for securing to a vertical surface. Note: Mounting Clips, or Rotating Mounting Clips required for installation of Vertical Mounting Brackets.			
DI-CPCH-HNG	Steel	Hanging Hardware Kit (HNG)	Pack of 2 hanging mounts / 2 Wire restrainers / 4 screws	Transform your channel Channel into a pendent fixture with channel Hanging Hardware Kit.	O x2		
DI-CPCH-RC-BA DI-CPCH-RC-WH DI-CPCH-RC-BL	AL WH BL	Rotating Mounting Clips (RTC)	Pack of 2 clips / 4 screws	Secure channel to flat surface and adjust to desired angle with this pressure-fit clip. Adds 0.74in. height to channel.			
SKU	BUNDLES	DESC	RIPTION				
DI-TB-CONN-TTW	Single, or pack of 5 or 25		Screw down Terminal Connector used for making connections to Tape .ight.				

^{** -} SKUs listed above are for Single covers. Add a -10 for a 10 pack bundle.

SPECIFICATION SHEET

SPECIFICATIONS

- LED Chip Type: Guangmu 2835 SMD Chip
- LED Chip Beam Angle: 120°
- Luminous Efficacy⁴ (lm/w): 71~88
- Mounting⁴: 3M[™] 55280 Adhesive
- Connections⁵: 3 ft. Female DC plug on end. 3 ft. hardwire lead opposing end. Leads: UL 2464 20/2 AWG
- Ambient Temp⁶: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temp⁷: -4 ~ 176°F (-20 ~ 80°C)

SPECIFYING?

Note: The compatible products listed in this Specification Sheet are provided for <u>reference only</u>. For complete specifications of compatible products, click on the <u>SPEC SHEET</u> links provided.

COMPLIANCE & REGULATORY APPROVALS

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.
- UL Recognized Component Sign Accessories. Available in UL Sign Components Manual (SAM Manual). File # E469770.
- CE & EMC Compliant: Verification No. GZEM141200683705V
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

Environmental

• RoHS Compliant: Verification No. CANEC1610091501

Performance

- Can be used to comply with TITLE 24 Part 6 High efficacy LED requirements - JA8-2016-E
- 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.

SPECIFICATION SHEET

ADDITIONAL INFORMATION

BLAZE™ X LED STRIP LIGHT Installation Guide

SAFETY / WARNINGS / DISCLOSURES

- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- 3. Only install with a listed Class 2 DC Constant Voltage LED Driver.
- Not for use in or on walls of pools, fountains, or other partially or fully submersed locations.
- 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.
- 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 twelve (12) 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/ 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.

