

SPECIFICATION SHEET







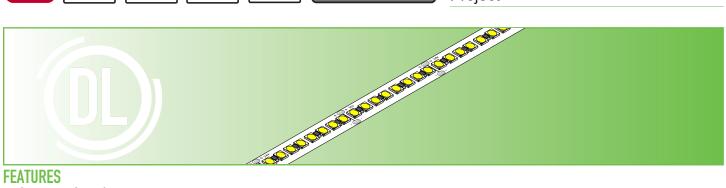






Item #

Project



FEATURES

- · Superior CRI, 95+
- High R9 (95) & R13 (100) values
- Full color rendering consistency at different output levels
- Fully diffused in channel
- · Ultra high lumen output capability
- · Channel (extrusion) not required for heat sink

SPECIFICATIONS

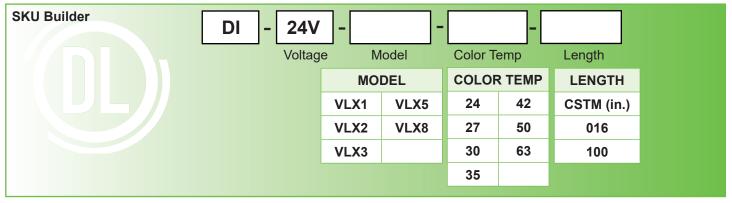
DI-24V-		VLX1	VLX2	VLX3	VLX5	VLX8	
Voltage		24VDC					
Wattage		1.0W/ft.	1.9W/ft.	2.8W/ft.	4.6W/ft.	7.2W/ft.	
	2400K	104/ft.	194/ft.	299/ft.	469/ft.	730/ft.	
	2700K	101/ft.	207/ft.	311/ft.	495/ft.	782/ft.	
	3000K	106/ft.	218/ft.	323/ft.	557/ft.	853/ft.	
Lumens ¹	3500K	108/ft.	218/ft.	328/ft.	586/ft.	906/ft.	
	4200K	112/ft.	228/ft.	342/ft.	550/ft.	850/ft.	
	5000K	116/ft.	242/ft.	365/ft.	592/ft.	840/ft.	
	6300K	112/ft.	244/ft.	363/ft.	578/ft.	924/ft.	
Max. Run ²		80 feet	53 feet	41 feet	30 feet	19 feet	
Cut Points		1.32 in					
LED Chips		72/ft					
CRI		95+					
Dim	mable	Yes					
Field	Cuttable	Yes					
Dimensions		0.47 x 0.1 in. (W x H)					
Environment*		Indoor / Damp Location					
Certification		UL Listed 2108					
Warranty		12-Year Warranty					

*WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS

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CUSTOM LENGTH TAPE

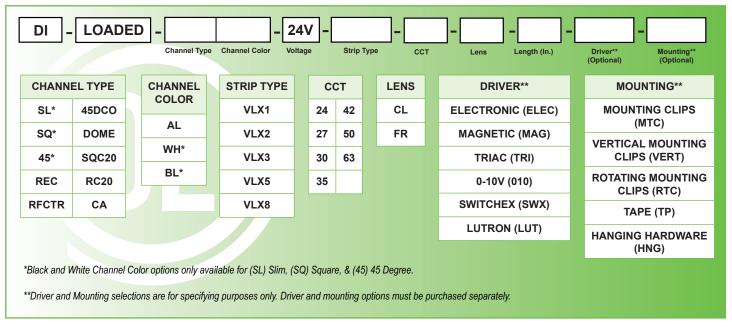


Example: DI-24V-VLX8-30-016 = Diode LED, 24 Volt, VALENT® X, 3,000° CCT, 16.4 foot spool.

NOTE: All custom cut Tape Lights include 96" lead wires.

FULLY LOADED CHANNELS

FULLY LOADED SKU Builder



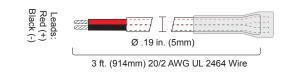
Example: DI-LOADED-SQBL-24V-VLX8-CL-36-SWX-RTC = Diode LED, Fully Loaded, Square, Black Channel, 24 Volt, VALENT® X 800, Clear Lens, 36 inches, 96" Lead Wire, SWITCHEX Dimmer, and Rotating Mounting Clips.

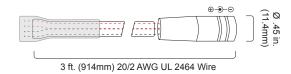
NOTE: Channels are not required for use as a heat sink

- 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. 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.
- 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.

SPECIFICATION SHEET

MECHANICAL DIAGRAM





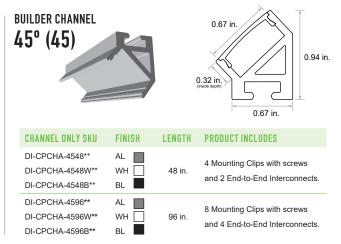




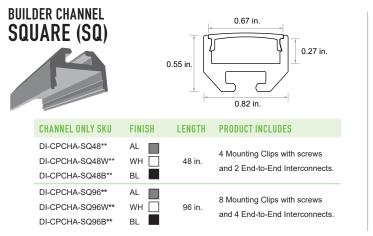
BUILDER CHANNELS

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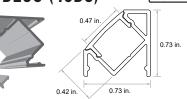
NOTE: Channels are not required for use as a heat sink

SPECIFICATION SHEET

CHANNEL BUNDLES

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

CHANNEL BUNDLE 45° DECO (45DC)



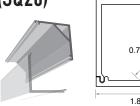
CHANNEL ONLY SKU

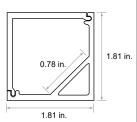
PRODUCT INCLUDES

DI-CPCHB-45DCO-48

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

CHANNEL BUNDLE 20mm SQUARE CORNER (SQ20)





CHANNEL ONLY SKU

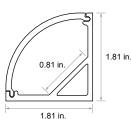
PRODUCT INCLUDES

DI-CPCHB-SQC20-48

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

CHANNEL BUNDLE 20mm ROUNDED CORNER





CHANNEL ONLY SKU

PRODUCT INCLUDES

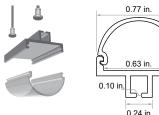
DI-CPCHB-RC20-48

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

CHANNEL BUNDLE DOME (DME)

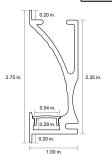


0.53 in.

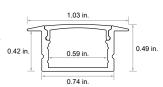


CHANNEL BUNDLE REFLECTOR (RFC)





CHANNEL BUNDLE RECESSED (REC)



CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-REC-48

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

CHANNEL ONLY

PRODUCT INCLUDES

DI-CPCHB-DOMF-48

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

CHANNEL ONLY SKU

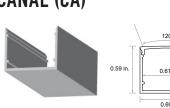
DI-CPCHB-RECTR-48

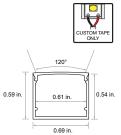
· 48 in. channel & frosted cover

End caps. 1x open, 1x closed

PRODUCT INCLUDES

CHANNEL BUNDLE CANAL (CA)





CHANNEL ONLY SKU

PRODUCT INCLUDES

DI-CPCHB-CAN48

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

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

SPECIFICATION SHEET

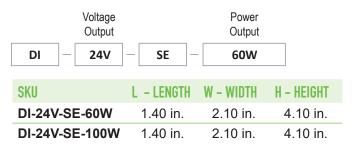
COMPATIBLE PRODUCTS

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

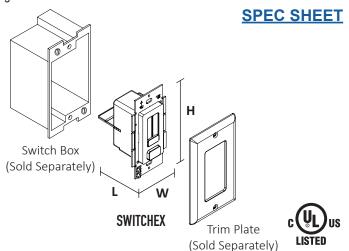
STAND ALONE

SWITCHEX® DRIVER + DIMMER SWITCH

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



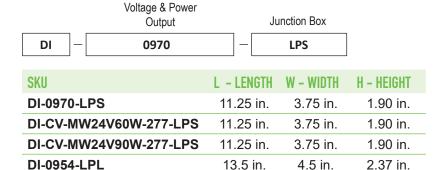
Fits in Standard Switch Box

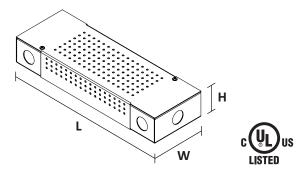


ON/OFF, DMX, & PWM CONTROL

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.





SPEC SHEET

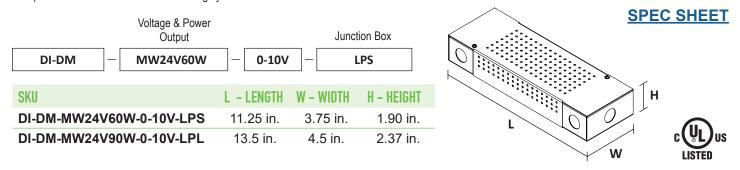
SPECIFICATION SHEET

COMPATIBLE PRODUCTS

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0 - 10V

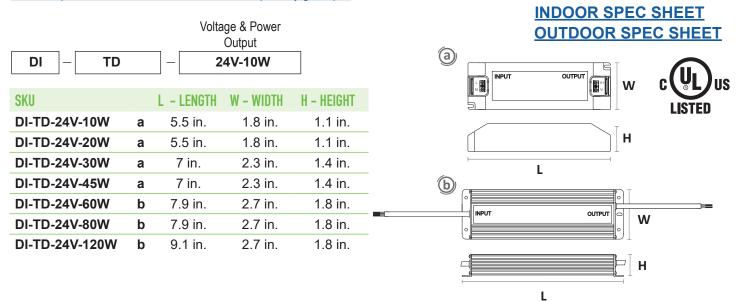
L0-PR0® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER Compatible with 0-10V controls and dimming systems.



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-guide.pdf/



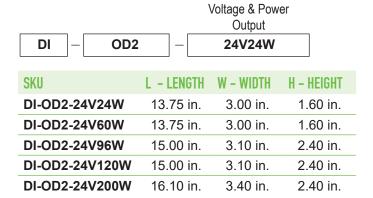
SPECIFICATION SHEET

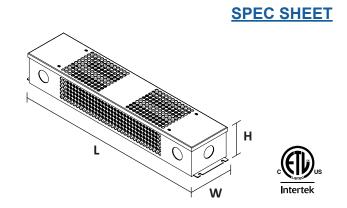
COMPATIBLE PRODUCTS

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

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/dimmer-master-compatibility-guide.pdf/

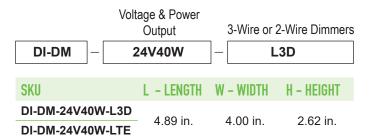


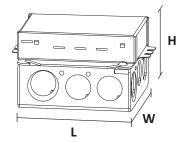


LUTRON OPTIONS

LUTRON. Hi-lume 1% LED DIMMABLE DRIVER

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



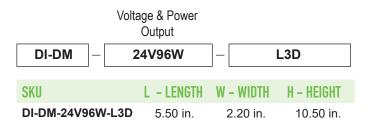


L3D SPEC SHEET



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%.





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 warm shift in Kelvin of 35K and an average 28% decrease in delivered lumens.	
DI-CPCHC-FR96**	Frosted	Frosted Cover (96 in.)	Single or 10 Pack		
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	
JNU	HIMIOH	TORMIACION	DOMDLES	DESCRIPTION	
DI-1633	N1 / A	SLIM Mounting Tape (TP)	4 ft. x 0.75 in.	3M® high-bond double-sided adhesive — tape designed to install the SLIM channel	
DI-1634	— N/A		12 ft. x 0.75 in.	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 - SQUARE / 45° / DUO

SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION
DI-CPMC2-SCR4	Charl I	Mounting Clips (MTC)	Pack of 2 clips / 4 screws	Secure chto flat surface with this pressure-
DI-1630-20	— Steel		Pack of 20 clips / 40 screws	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 into a pendent fixture with the Hanging Hardware Kit.
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.

VALENT® X 24" SPLICE CONNECTOR

SKU	MEASUREMENTS	DESCRIPTION	
DI-CKT-24SPVX	(.75 x .69 x .25 in) L, W, H	Used to connect to VALENT® X Strip Light to power supply.	

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

SPECIFICATION SHEET

SPECIFICATIONS

• Input: 24VDC Constant Voltage

• LED Chip Type: 2835

LED Chip Beam Angle: 120°

Luminous Efficacy³ (lm/w): 109~121

• Mounting: 3M mounting tape on back of tape.

• Connections: 36" female DC lead, and 36" bare

lead: 22/2 AWG

• Ambient Temp⁴: -4 - 122°F (-20 ~ 50°C)

• Operating Temp⁵: -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 Flexible Lighting Systems. Certified for United States and Canada. File # E469769.

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

VALENT® X 24V 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.
- 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 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.

