

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

24VDC, WARM DIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 07.25.24



DESCRIPTION

Our .6" Surface Mount Light Channel enhances spaces with depth and dimension, seamlessly integrating into the architecture while delivering premium task lighting for applications like under cabinets, bathrooms, work surfaces, and more. Our slim profile, made-to-order LED channels are offered in two variations of Warm Dim (**27D** & **30D**). Our Warm Dim technology mimics an incandescent atmosphere by decreasing the color temperature as you dim. Our Warm Dim strips can be dimmed all the way down to a soothing amber hue at 1800K. Available with a diffused white lens or clear lens for maximum light levels, both are offered with black or white louver options. Order in 3" increments from 12" up to 120"(10'). Click here for all [Other Color Temperatures](#). Light Channel .6" provides high-quality illumination and is simple to specify and install, making it easy to elevate any space, for Field cuttable runs, see DIY spec sheet. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com

SPECIFICATIONS

- 100° Diffused or Clear Lens
- 24VDC, Class 2
- 4.8 watts per foot
- 3-inch increments up to 120"(10ft)
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

LENS OPTIONS

- Clear Lens (**C**) provides maximum illumination use of a transparent lens, LEDs diodes will show
- Clear Lens White Louver (**CLW**)
- Clear Lens Black Louver (**CLB**)
- Diffused White Lens (**D**) projects clean lines of light eliminating pixelation
- Diffused Lens White Louver (**DLW**)
- Diffused Lens Black Louver (**DLB**)
- Diffused Lens with Gel Color Filter (**G**) (Provided by Customer) Clear and Diffuser Lens are Gel Color Filter Suitable allowing for color personalization. Zircan LED Gel filters recommended. Purchase Gel Lens from www.leefilters.com. See manufacturer spec sheet for more information.

LAMP

- Warm Dim: **27D** dims from 2700K down to 1800K, and **30D** dims from 3000K down to 2000K, resembling incandescent light sources.
- Lumen Performance: up to 313lm/ft at 3000K, 5W per foot
- CRI 92+
- Average life: 50,000 hours
- For additional color temperatures refer to other specifications

INCLUDED COMPONENTS

- 72" Power Connector (includes one per fixture). Order extra as needed based on your installation requirements
- Mounting Clips (included with every 2' of Channel)

REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)
- [Electronic Low Voltage \(ELV\)](#) 50W (fits inside junction box)
- [Lutron](#) Hi-Lume/Ecosystem

*In-wall mounting and drop ceiling kits available for select power supplies

MAKE IT SMART

[Pure Smart™ Wi-Fi Dimmer & Switch](#)

COMPLIANCE

*Title 24 JA8 listed for 2700K CCT and above when used with PureEdge remote Universal power supplies, ETL, Class 2, Damp Location, Made in USA.

APPLICATIONS

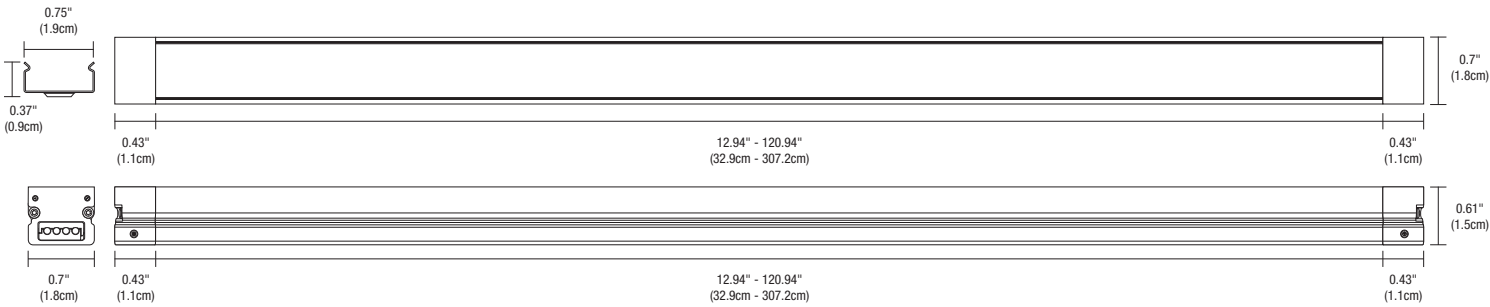
Ideal applications include display shelving and cabinetry, under-cabinet, cabinet lightning, coves, and bars within residential, commercial, retail, and hospitality environments.

Product	Wattage	Nominal Length	Lens	Color Temperature	Finish
LCS.6	5W	60	D	27D	SA
LCS.6 Light Channel .6 Surface Mount	5W 4.8 watts	12-120 12" to 120" Order in 3" increments. See chart for exact lengths.	D Diffused Lens C Clear Lens DLW Diffused Lens with White Louver DLB Diffused Lens with Black Louver CLB Clear Lens with Black Louver CLW Clear Lens with White Louver G Diffused Lens with Gel Color (Provided by Customer)	27D 2700K-1800K Warm Dim 30D 3000K-2000K Warm Dim	SA Satin Aluminum XX Custom Finishes Available

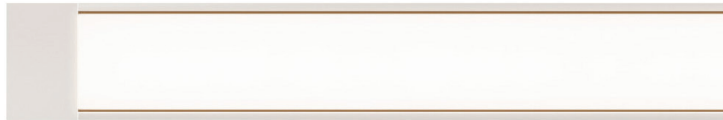
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LENS OPTIONS



LCS.6 LIGHT CHANNEL DIFFUSED LENS White Diffuser Lens projects clean lines of light, eliminating pixelation



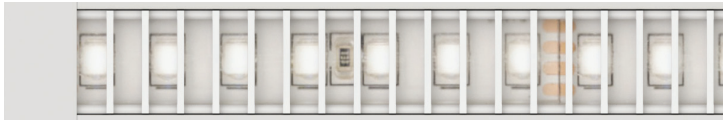
LCS.6 LIGHT CHANNEL CLEAR LENS Clear Lens provides maximum light levels and will show slight pixelation



LCS.6 LIGHT CHANNEL DIFFUSED WHITE LENS WITH WHITE LOUVER



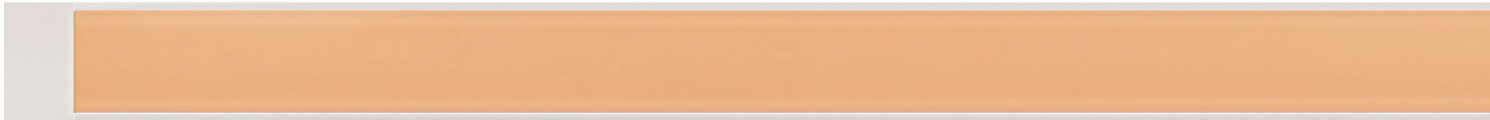
LCS.6 LIGHT CHANNEL DIFFUSED LENS WITH BLACK LOUVER



LCS.6 LIGHT CHANNEL CLEAR LENS WITH WHITE LOUVER



LCS.6 LIGHT CHANNEL CLEAR LENS WITH BLACK LOUVER



LCS.6 LIGHT CHANNEL DIFFUSED LENS WITH GEL COLOR FILTER (PROVIDED BY CUSTOMER)

Clear and Diffuser Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters are recommended and can be purchased from www.leefilters.com. Gel filter life is 5,000 hours before needing to be changed

FOOT CANDLE CHARTS

30K 5W DIFFUSED LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	29"	240
18"	43"	106
24"	57"	60
36"	86"	26

30K 5W CLEAR LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	8"	720
18"	13"	320
24"	18"	180
36"	26"	80

*Foot Candle Data is based off 4' Channel.

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NOMINAL DELIVERED LUMENS

	DIFFUSED LENS	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	256	267
LUMENS PER WATT (lm/w)	53	56
CRI	92+	92+

	CLEAR FROSTED LENS	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	300	313
LUMENS PER WATT (lm/w)	63	65
CRI	92+	92+

	WHITE LOUVER CLEAR FROSTED	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	200	209
LUMENS PER WATT (lm/w)	42	43
CRI	92+	92+

	WHITE LOUVER DIFFUSED	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	171	178
LUMENS PER WATT (lm/w)	36	37
CRI	92+	92+

	BLACK LOUVER CLEAR FROSTED	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	114	118
LUMENS PER WATT (lm/w)	24	25
CRI	92+	92+

	BLACK LOUVER DIFFUSED	
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	97	101
LUMENS PER WATT (lm/w)	20	21
CRI	92+	92+

ACTUAL LENGTHS FOR LIGHT CHANNEL .6" SURFACE MOUNT WARM DIM

Ordering Code (Nominal Length) /Illuminated Length	Actual Length (Inches)	Warm Dim Wattage	Ordering Code (Nominal Length) /Illuminated Length	Actual Length (Inches)	Warm Dim Wattage
12	12.9	5	66	66.9	28
15	15.9	6	69	69.9	29
18	18.9	8	72	72.9	30
21	21.9	9	75	75.9	31
24	24.9	10	78	78.9	33
27	27.9	11	81	81.9	34
30	30.9	13	84	84.9	35
33	33.9	14	87	87.9	36
36	36.9	15	90	90.9	38
39	39.9	16	93	93.9	39
42	42.9	18	96	96.9	40
45	45.9	19	99	99.9	41
48	48.9	20	102	102.9	43
51	51.9	21	105	105.9	44
54	54.9	23	108	108.9	45
57	57.9	24	111	111.9	46
60	60.9	25	114	114.9	48
63	63.9	26	117	117.9	49
			120	120.9	50

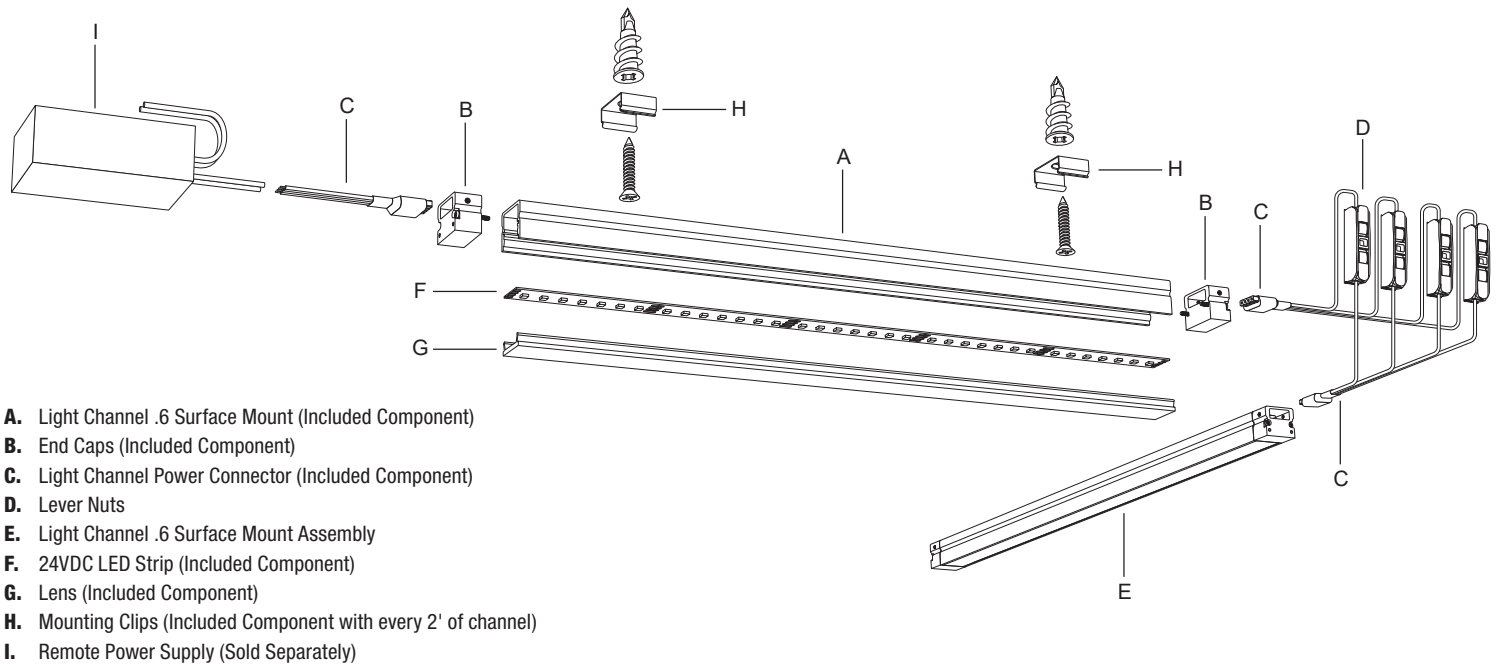
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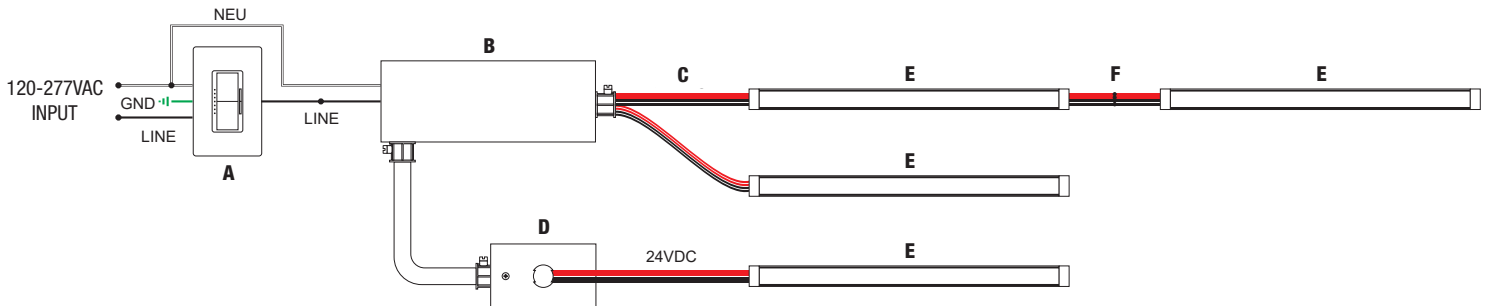
Components: Light Channel .6 Surface Mount system overview



WIRING DIAGRAM: Electronic Low Voltage (ELV) dimming for Indoor Light Channel .6 Surface Mount

Power Supply: 120VAC input, 24VDC 96 watt output

Dimming: Dimmable with low voltage electronic dimmer using power supply above. See power supply spec sheet for additional details. Lutron: Diva DVELV-300P; Skylark SELV-300P; Maestro MAELV-600 dimmers are recommended.



- A.** Dimmer (ELV Dimmer shown)
- B.** 96W 24VDC Power Supply
- C.** Light Channel Power Connector SS-FE-CON-72IN-DW
- D.** 3" Rectangle Canopy Cover 3RE-WH
- E.** Light Channel Fixture
- F.** Light Channel Flexible Connector SS-CFX-CON-__-DW

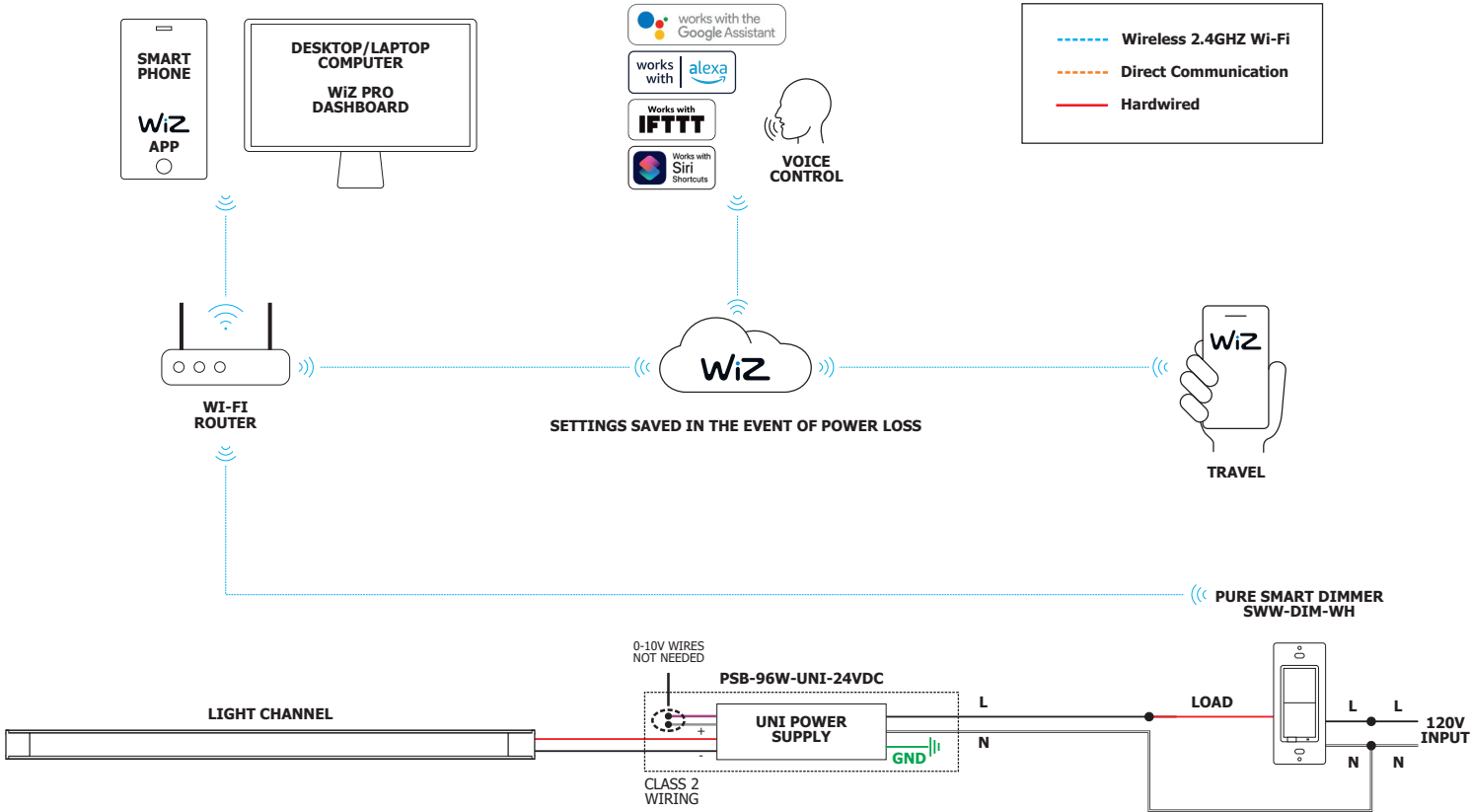
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NETWORK TOPOLOGY USING UNI DRIVER



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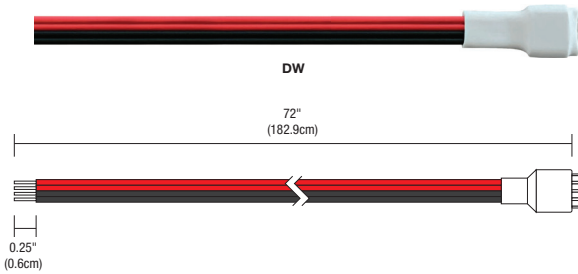
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ACCESSORIES: Order based on your lighting design specifications or as replacement parts.

LIGHT CHANNEL POWER CONNECTOR

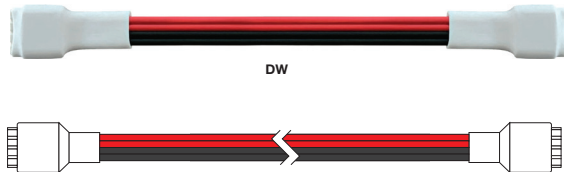
One Female Power Connector is included with each order of channel. For jumper connections, use our Flexible Connector or WAGO 221 lever nuts according to your specific application requirements.



System	Type	Product	Length	Color Temperature
SS	FE	CON	72IN	DW
SS Stomp/Soft Strip	FE Female Pin	CON Connector	72IN 72"	DW Static White/ Warm Dim

FLEXIBLE CONNECTOR

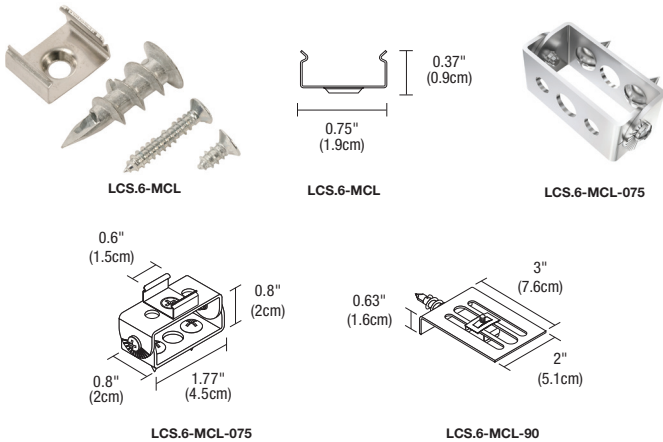
Flexible connectors link two sections of the Light Channel end to end. WAGO 221 lever nuts can also be used as jumper connections according to your specific application requirements.



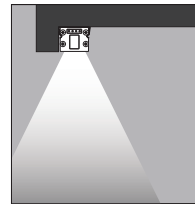
System	Type	Product	Size	Color Temperature
SS	CFX	CON	12IN	DW
SS Stomp Strip/Soft Strip	CFX Flexible Connector	CON Connector	12IN 12 Inches 72IN 72 Inches	DW Static White/ Warm Dim

MOUNTING CLIPS

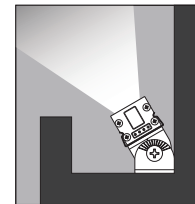
LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75 degrees. LC-MCL-90 mounts Light Channel at a 90 degree angle.



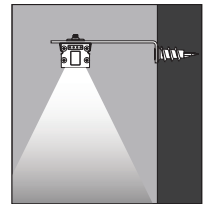
System	Product	Type
LCS.6	MCL	Standard (Leave Blank)
LCS.6 Light Channel 0.6" Surface Mount	MCL Mounting Clip	075 Adjusts 0-75° 90 Mounts at 90°



SHOWN WITH LCS.6-MCL



SHOWN WITH LCS.6-MCL-075



SHOWN WITH LCS.6-MCL-90

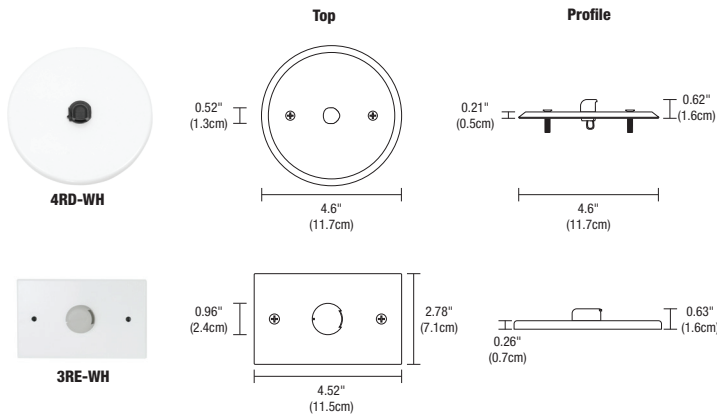
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CANOPY COVER & SPLICE BOX

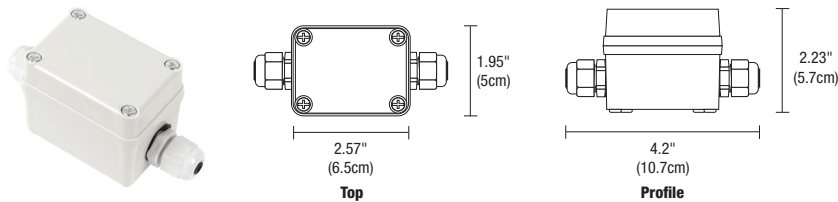
Use for remote located power supply. The 3 inch rectangle or 4 inch round white canopy covers the electrical box and feeds wires for Light Channel. The Splice Box provides a safe enclosure for low voltage connections.



Product	Finish
3RE	WH
3RE 3" Rectangle Canopy Cover	WH White
4RD 4" Round Canopy Cover	

JUNCTION BOX

Low voltage Splice Box with connectors.

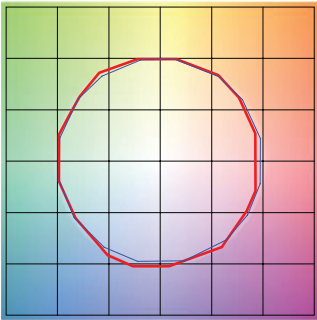


Product	Type	Option
2RE	JBOX	W
2RE 2" Rectangle	JBOX Junction Box	W Wet Location

LIGHT CHANNEL TM30 DATA
24VDC, WARM DIM

TM-30-15 DATA: The data below is for bare LED Warm Dim Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

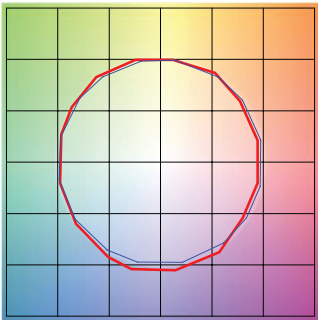
2700D | Rf: 90.7 | Rg: 101.1
Color Vector Graphic



Test Reference

Table with 4 columns: HUE BIN, Rf, CHROMA, HUE. Rows 1-16 showing color shift data for 2700D.

3000D | Rf: 90.6 | Rg: 101.1
Color Vector Graphic



Test Reference

Table with 4 columns: HUE BIN, Rf, CHROMA, HUE. Rows 1-16 showing color shift data for 3000D.