

# LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

24VDC, WARM DIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA



## 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](mailto: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. Zircon LED Gel filters recommended. Purchase Gel Lens from [www.leefilters.com](http://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

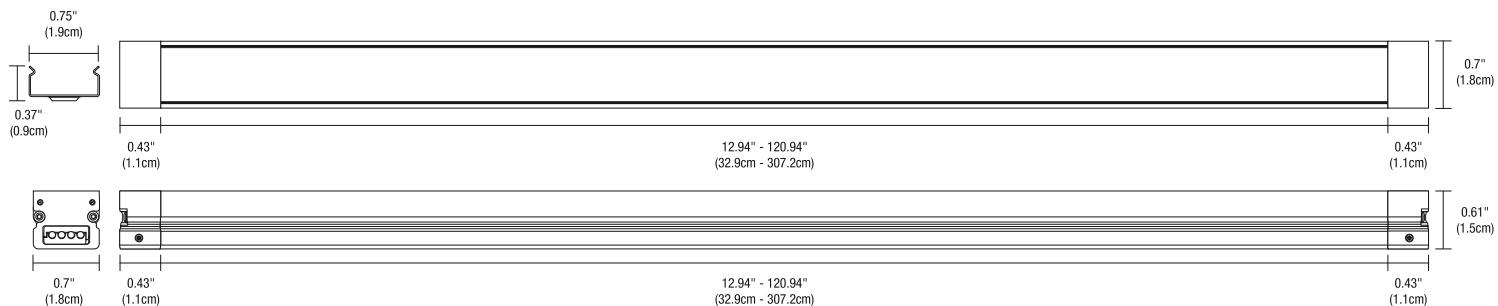
Ideal applications include display shelving and cabinetry, under-cabinet, cabinet lighting, coves, and bars within residential, commercial, retail, and hospitality environments.

Product	Wattage	Nominal Length	Lens	Color Temperature	Finish
<b>LCS.6</b>	<b>5W</b>	<b>60</b>	<b>D</b>	<b>27D</b>	<b>SA</b>
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.			
			<b>D</b> Diffused Lens	<b>27D</b> 2700K-1800K Warm Dim	<b>SA</b> Satin Aluminum
			<b>C</b> Clear Lens	<b>30D</b> 3000K-2000K Warm Dim	<b>XX</b> Custom Finishes Available
			<b>DLW</b> Diffused Lens with White Louver		
			<b>DLB</b> Diffused Lens with Black Louver		
			<b>CLB</b> Clear Lens with Black Louver		
			<b>CLW</b> Clear Lens with White Louver		
			<b>G</b> Diffused Lens with Gel Color (Provided by Customer)		

PROJECT	Fixture Type	DATE

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## LENS OPTIONS



LCS.6 LIGHT CHANNEL  
DIFFUSED LENS

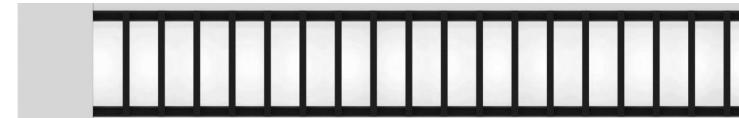


LCS.6 LIGHT CHANNEL  
CLEAR LENS

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.leafilters.com](http://www.leafilters.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.

PROJECT	FIXTURE TYPE	DATE

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## NOMINAL DELIVERED LUMENS

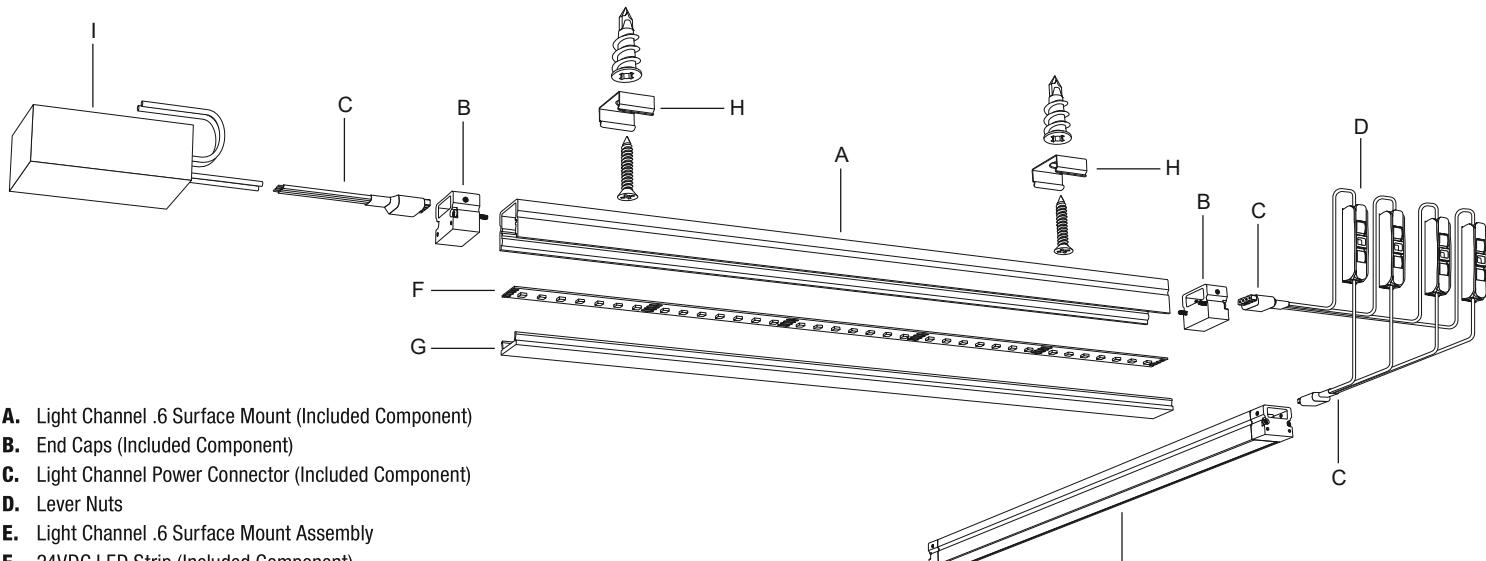
DIFFUSED LENS		
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	256	267
LUMENS PER WATT (lm/w)	53	56
CRI	92+	92+
CLEAR FROSTED LENS		
WATTS PER FOOT	5W (4.8 watts)	
COLOR TEMPERATURE	27D	30D
LUMENS PER FOOT (lm/ft)	300	313
LUMENS PER WATT (lm/w)	63	65
CRI	92+	92+
WHITE 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

PROJECT	FIXTURE TYPE	DATE

**Components:** Light Channel .6 Surface Mount system overview

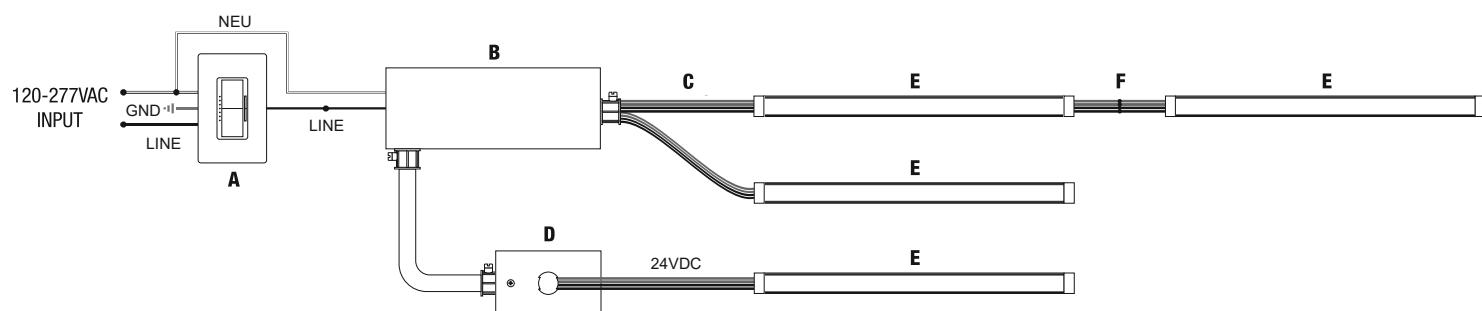


- A. Light Channel .6 Surface Mount (Included Component)
- B. End Caps (Included Component)
- C. Light Channel Power Connector (Included Component)
- D. Lever Nuts
- E. Light Channel .6 Surface Mount Assembly
- F. 24VDC LED Strip (Included Component)
- G. Lens (Included Component)
- H. Mounting Clips (Included Component with every 2' of channel)
- I. Remote Power Supply (Sold Separately)

## 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.



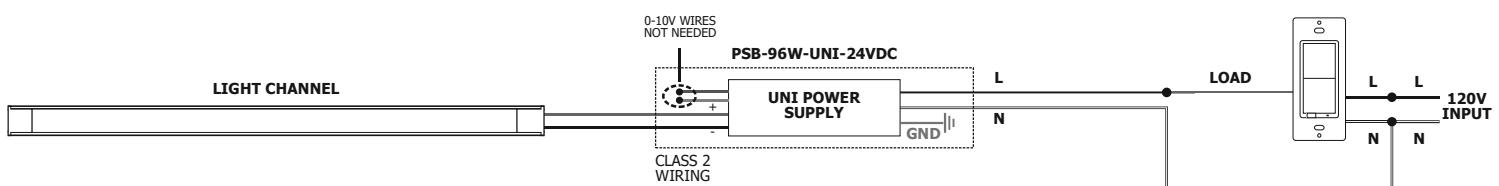
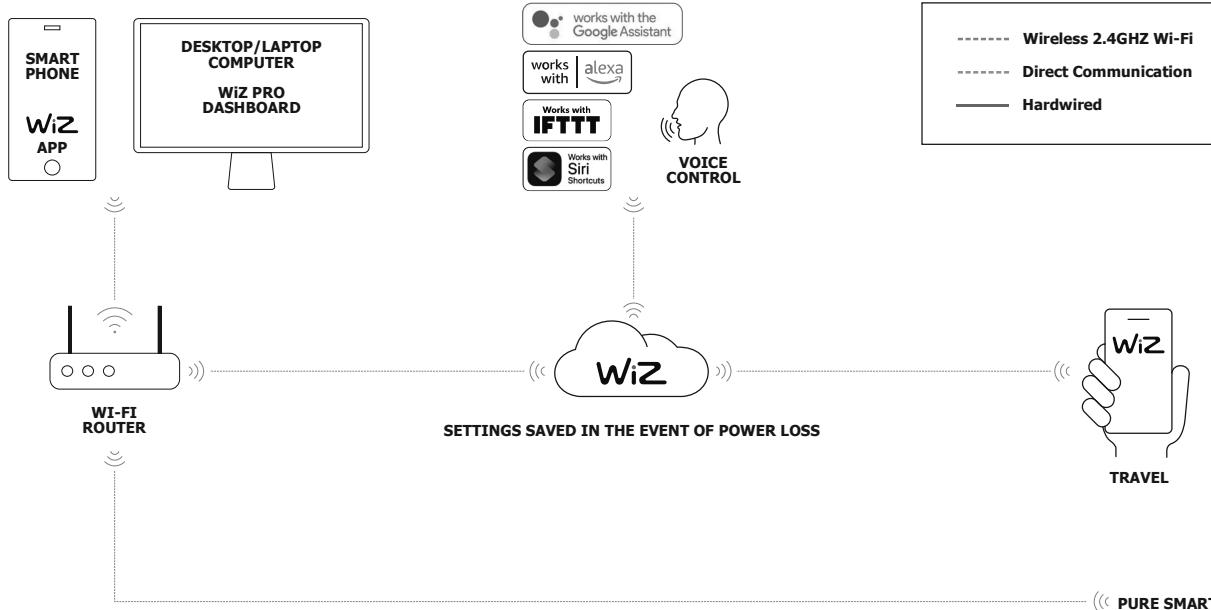
- A. Dimmer (ELV Dimmer shown)
- B. 96W 24VDC Power Supply
- C. Light Channel Power Connector SS-FE-CON-72IN-DW
- D. 3" Rectangle Canopy Cover 3RE-WH
- E. Light Channel Fixture
- F. Light Channel Flexible Connector SS-CFX-CON-\_\_-DW

PROJECT	FIXTURE TYPE	DATE
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## NETWORK TOPOLOGY USING UNI DRIVER

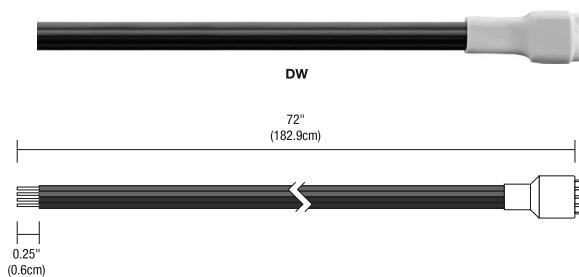


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# LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

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

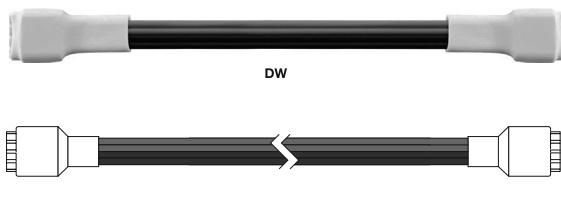


## LIGHT CHANNEL POWER CONNECTOR

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

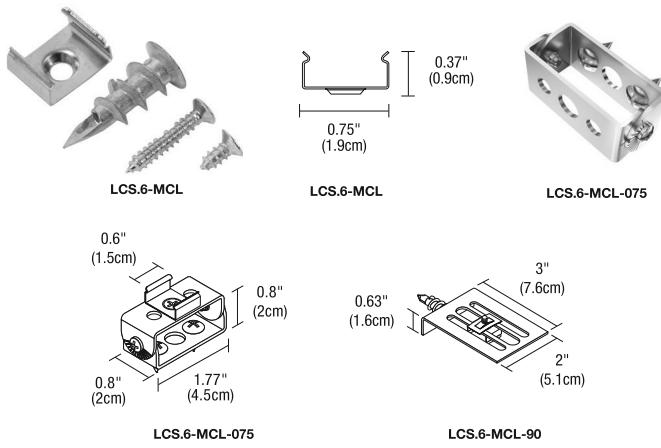


## FLEXIBLE CONNECTOR

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

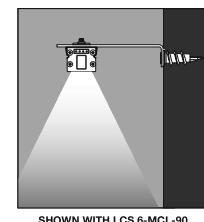
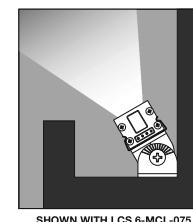
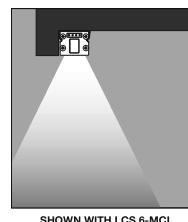


## MOUNTING CLIPS

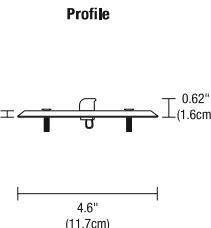
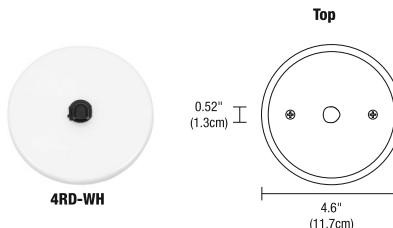
LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75 degrees. LC-MCL-90 mounts Light Channel at a 90 degree angle.

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°



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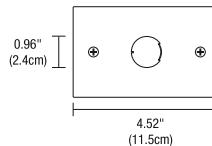
## CANOPY COVER & SPLICE BOX

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
<b>3RE</b>	<b>WH</b>
<b>4RD</b>	<b>WH</b>

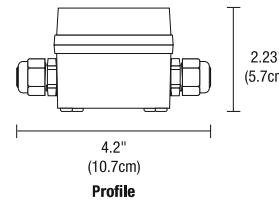
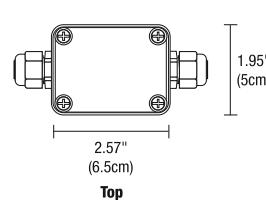
**3RE** 3" Rectangle Canopy Cover  
**4RD** 4" Round Canopy Cover

**WH** White



## JUNCTION BOX

Low voltage Splice Box with connectors.



Product	Type	Option
<b>2RE</b>	<b>JBOX</b>	<b>W</b>

**2RE** 2" Rectangle  
**JBOX** Junction Box  
**W** Wet Location

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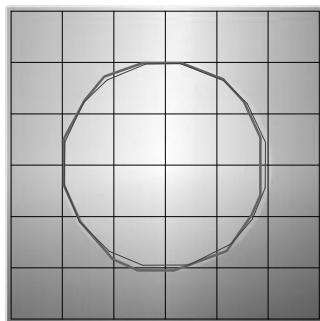
# LIGHT CHANNEL TM30 DATA

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

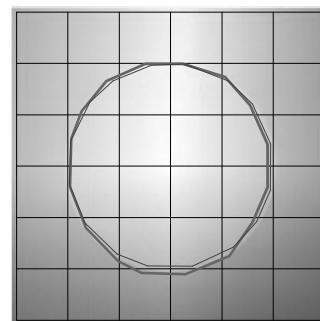


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

**3000D** | Rf: 90.6 | Rg: 101.1

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

PROJECT	FIXTURE TYPE	DATE