

LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

24VDC, TUNABLE WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 03.14.25



DESCRIPTION

PureEdge's Light Channel .6" Surface Mount 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 multiple wattages and in two Tunable White profiles. Tunable White 2000K-6500K (**2K6K**) or 2700K-6500K (**27K6**) grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Day Light White). Tunable white lighting visually, biologically, and emotionally contributes to human interaction with the physical world. Human-centric lighting (HCL) builds on this technology, bringing the dynamics of natural daylight indoors and delivering a positive effect on human health, well-being, and performance. Available with a diffused white lens or clear lens for maximum light levels, both offered with black or white louver options. Order in 2 or 3-inch increments from 12" up to 120". Click here for all [Other Color Temperatures](#). Light Channel .6" 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

- 24VDC, Class 2
- 2.5, 4.6 or 7.5 watts per foot
- 2 and 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 100° eliminating pixelation
- Diffused Lens White Louver (**DLW**), Diffused Lens Black Louver (**DLB**)
- Diffused Lens with Gel Color Filter (**G**) COM are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters recommended. www.leefilters.com. See manufacturer spec sheet for more information.

LAMP

- Tunable White: 2000K-6500K (**2K6K**) and 2700K-6500K (**27K6**) grants independent control for adjusting color temperature and intensity
- Lumen Performance: up to 305lm/ft at 3000K 7W per foot
- CRI 93+
- 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

- [Home Integration Solutions](#)
- Pure Smart™ WiZ Pro [Power Supplies](#) & [Controls](#)
- [0-10V](#) Requires two dimmers, one for intensity and one for color temperature
- [DMX & Controls](#)

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

COMPLIANCE

ETL, Class 2, Damp Location, Manufactured in the USA.

APPLICATIONS

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

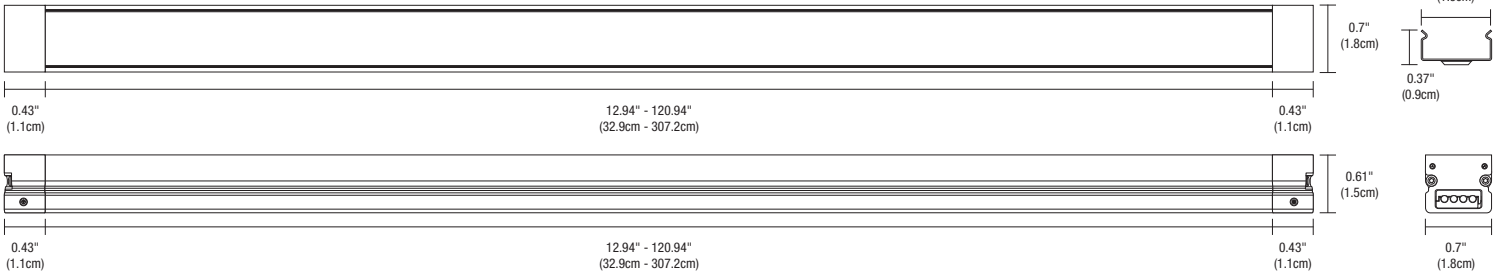
Product	Wattage	Nominal Length	Lens	Color Temperature	Finish
LCS.6	5W	60	D	2K6K	SA
LCS.6 Light Channel .6 Surface Mount	2W 2.5 watts 5W 4.6 watts 7W 7.5 watts	12-120 Available from 12" to 120" in 2" or 3" increments. See chart for exact lengths.	D Diffused Lens C Clear Lens DLW Diffused Lens with White 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)	2K6K Tunable White 2000K-6500K 27K6 Tunable White 2700K-6500K	SA Satin Aluminum XX Custom Finishes Available

PROJECT		FIXTURE TYPE		DATE	
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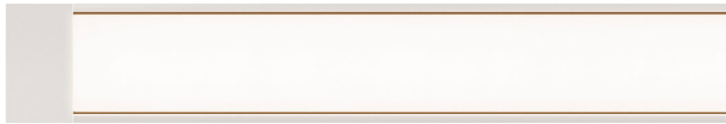
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LENS OPTIONS



**LCS.6 LIGHT CHANNEL
DIFFUSED LENS**

White Diffuser Lens projects clean lines of light, eliminating pixelation



**LCS.6 LIGHT CHANNEL
CLEAR LENS**

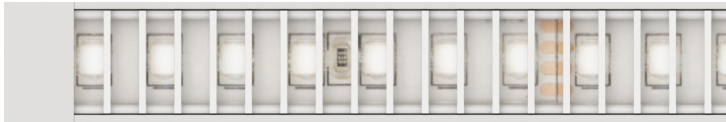
Clear Lens provides maximum light levels and will show slight pixelation



**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.leeefilters.com. Gel filter life is 5,000 hours before needing to be changed

FOOT CANDLE CHARTS

30K 100° 5W DIFFUSED LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	29"	240
18"	43"	106
24"	57"	60
36"	86"	26

30K 100° 5W CLEAR LENS		
DISTANCE	BEAM	FOOT CANDLE
12"	8"	720
18"	13"	320
24"	18"	180
36"	26"	80

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NOMINAL DELIVERED LUMENS (27K6) CONTINUED

	BLACK LOUVER CLEAR																				
WATTS PER FOOT	27K6 2W (2.5 watts)							27K6 5W (4.6 watts)							27K6 7W (7.5 watts)						
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	31	37	38	39	42	45	43	97	100	103	105	101	100	97	113	115	120	124	122	121	121
LUMENS PER WATT (lm/w)	15	15	15	15	17	18	22	24	25	25	25	25	25	25	18	16	17	17	17	17	19
CRI	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+

	BLACK LOUVER DIFFUSED																				
WATTS PER FOOT	27K6 2W (2.5 watts)							27K6 5W (4.6 watts)							27K6 7W (7.5 watts)						
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	26	31	32	33	36	39	37	83	85	88	90	87	86	83	96	98	102	106	104	104	103
LUMENS PER WATT (lm/w)	13	12	13	13	14	16	18	21	21	21	21	21	21	21	15	14	14	15	15	14	16
CRI	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+

ACTUAL LENGTHS FOR LIGHT CHANNEL .6 SURFACE MOUNT

Ordering Code (Illuminated Size)	Overall Length (Inches)	Ordering Code (Illuminated Size)	Overall Length (Inches)	Ordering Code (Illuminated Size)	Overall Length (Inches)
12	12.9	48	48.9	84	84.9
15	15.3	51	51.3	87	87.3
17	17.7	53	53.7	89	89.7
20	20.1	56	56.1	92	92.1
22	22.5	58	58.5	94	94.5
24	24.9	60	60.9	96	96.9
27	27.3	63	63.3	99	99.3
29	29.7	65	65.7	101	101.7
32	32.1	68	68.1	104	104.1
34	34.5	70	70.5	106	106.5
36	36.9	72	72.9	108	108.9
39	39.3	75	75.3	111	111.3
41	41.7	77	77.7	113	113.7
44	44.1	80	80.1	116	116.1
46	46.5	82	82.5	118	118.5
				120	120.9

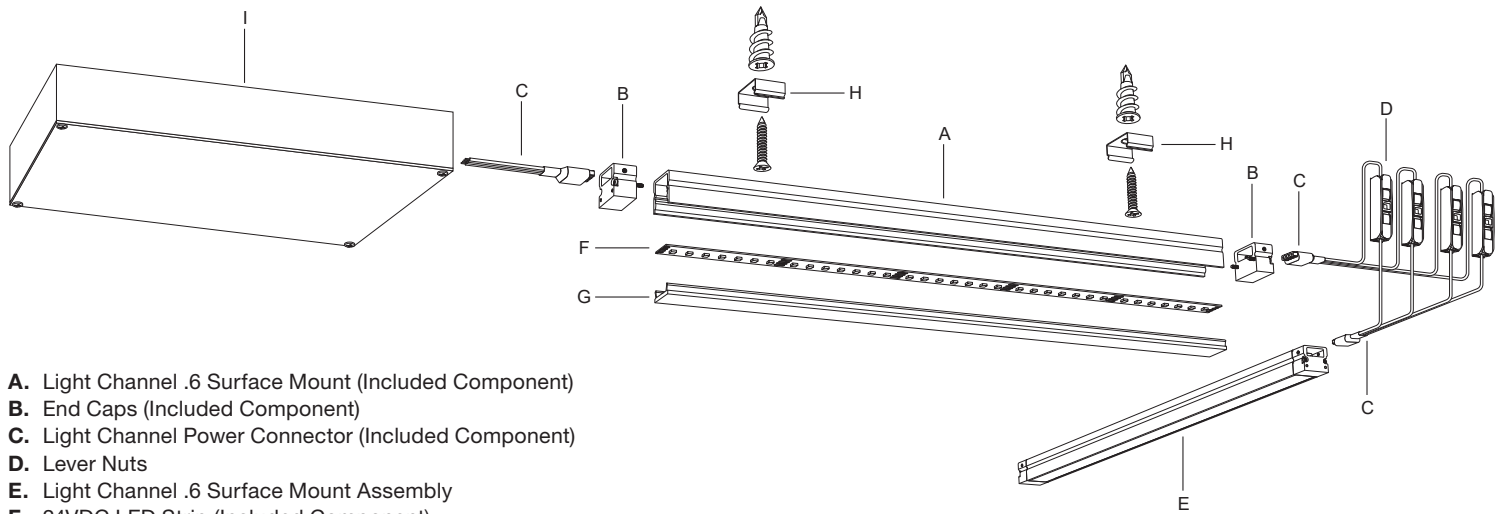
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LIGHT CHANNEL COMPLETE FIXTURE 0.6" SURFACE MOUNT

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Components: Light Channel .6 Surface Mount system overview

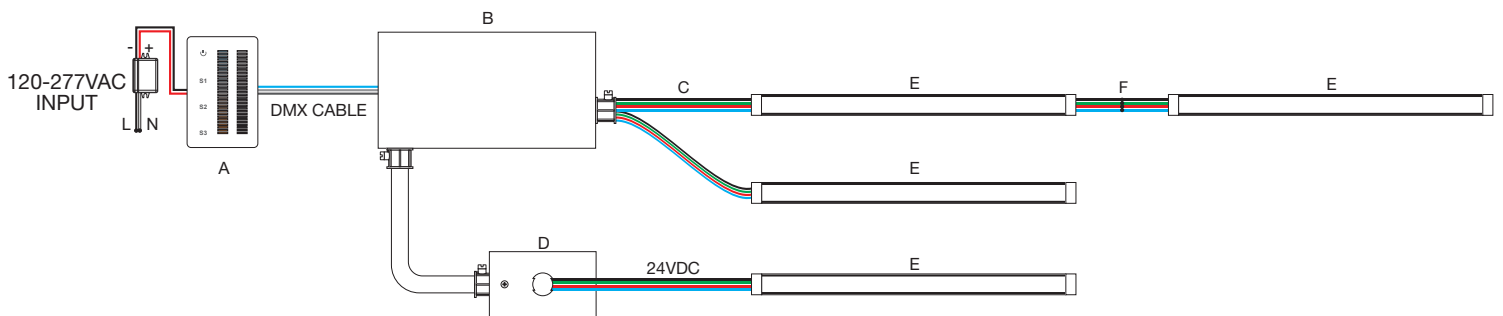


- A. Light Channel .6 Surface Mount (Included Component)
- B. End Caps (Included Component)
- C. Light Channel Power Connector (Included Component)
- D. Lever Nuts
- E. Light Channel .6 Surface Mount Assembly
- F. 24VDC LED Strip (Included Component)
- G. Lens (Included Component)
- H. Mounting Clips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

Wiring Diagram: DMX dimming/control for Light Channel .6 Surface Mount

Power Supply: 120VAC input, 24VDC 96 watt output PSB-100W-24VDC-DMX

Dimming: Shown with CDMX1-2XK-WH Tunable White Controller. See power supply spec sheet for additional details.



- A. CDMX1-2XK-WH with Controller Power Adapter
- B. 100W 24VDC Power Supply PSB-100W-24VDC-DMX
- C. Light Channel Power Connector SS-FE-CON-72IN-RGB
- D. 3" Rectangle Canopy Cover 3RE-WH
- E. Light Channel Fixture
- F. Light Channel Flexible Connector SS-CFX-CON-__-RGB

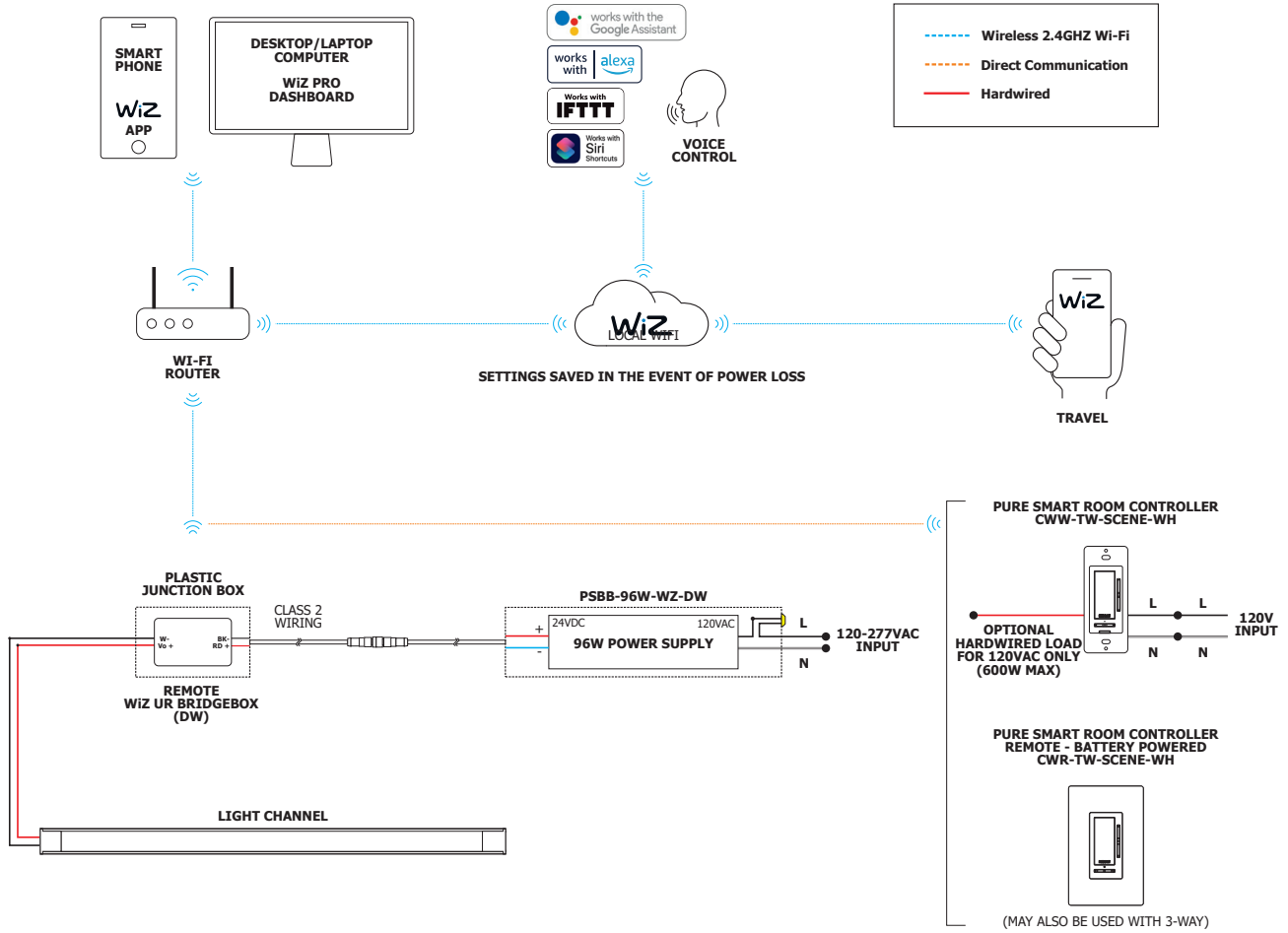
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NETWORK TOPOGRAPHY



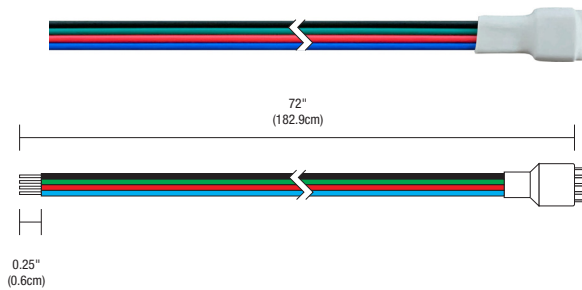
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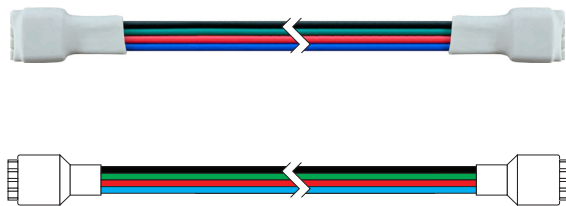
ACCESSORIES: Order based on your lighting design specifications or as replacement parts.



LIGHT CHANNEL POWER CONNECTOR

One Female Power Connector is included with each order of channel. For jumper connections, we recommend using WAGO 221 Lever Nuts according to your specific application requirements.

System	Type	Product	Length	Color Temperature
SS	FE	CON	72IN	RGB
SS Stomp/Soft Strip	FE Female Pin	CON Connector	72IN 72"	RGB RGB (Tunable White Compatible)

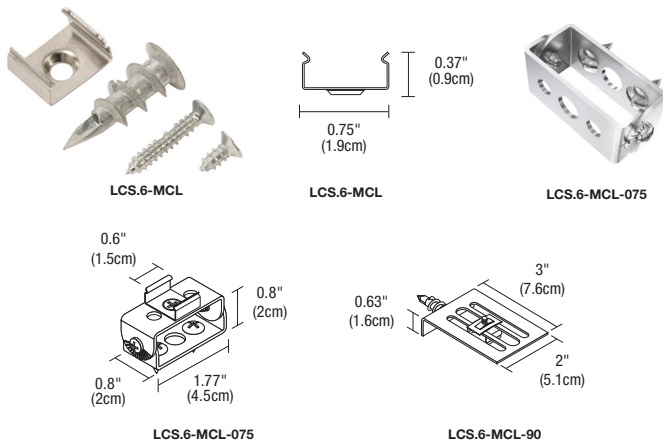


FLEXIBLE CONNECTOR

Flexible connectors link two sections of the Light Channel end to end.

System	Type	Product	Size	Color Temperature
SS	CFX	CON	12IN	RGB
SS Stomp Strip/Soft Strip	CFX Flexible Connector	CON Connector	12IN 12 Inches 72IN 72 Inches	RGB RGB (Tunable White Compatible)

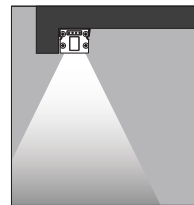
ACCESSORIES: Order based on lighting design or as replacement parts.



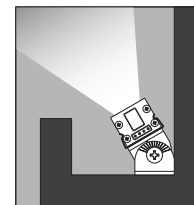
MOUNTING CLIPS

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.

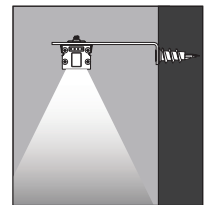
System	Product	Type
LCS.6	MCL	Standard (Leave Blank)
LCS.6 Light Channel 0.6" Surface Mount	MCL Mounting Clip	075 Adjusts 0-75° 90 Mounts at 90°



SHOWN WITH LCS.6-MCL



SHOWN WITH LCS.6-MCL-075



SHOWN WITH LCS.6-MCL-90

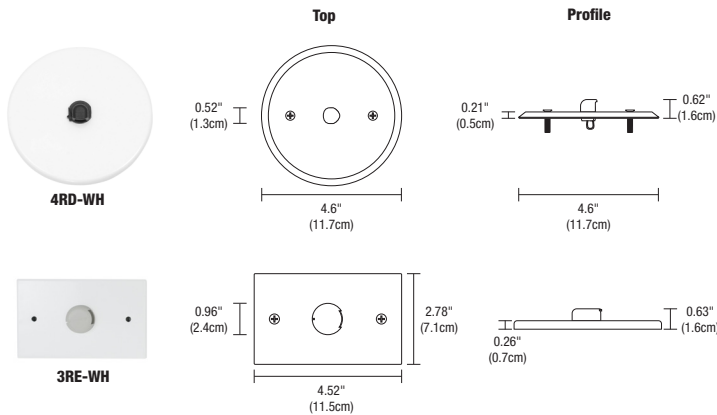
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CANOPY COVER & SPLICE BOX

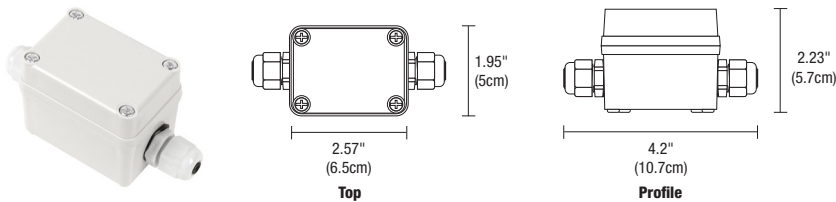
Use for remote located power supply. The 3 inch rectangle or 4 inch round white canopy covers the electrical box and feeds wires for Light Channel. The Splice Box provides a safe enclosure for low voltage connections.



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

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LIGHT CHANNEL TM30 DATA

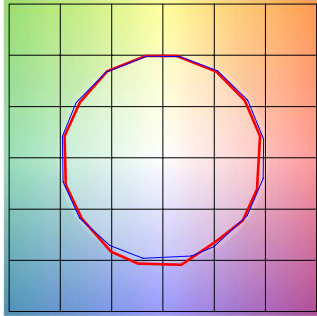
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TM-30-15 DATA: The data below is for Tunable White bare LED Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to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

2000K ONLY (2K6K/27K6) | Rf: 90.6 | Rg: 98.5

Color Vector Graphic

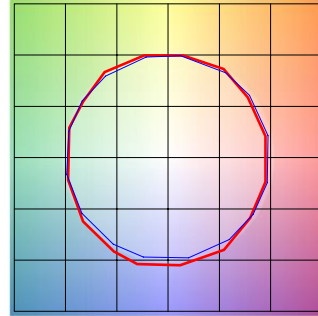


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	87.7	-5.5%	1.2%
2	88.7	-3.9%	4.2%
3	90.5	-1.5%	4.3%
4	95.0	-1.7%	0.8%
5	95.2	-0.2%	2.1%
6	94.2	1.6%	1.9%
7	95.9	-0.8%	-2.2%
8	95.5	-1.7%	1.3%
9	93.8	-1.4	2.6%
10	91.9	-0.7%	4.2%
11	91.3	3.6%	3.7%
12	91.2	4.2%	-1.0%
13	86.6	3.8%	-12.7%
14	67.2	-3.0%	-16.3%
15	84.9	-3.3%	-9.4%
16	84.2	-5.7%	-7.5%

3000K (2K6K/27K6) | Rf: 90.5 | Rg: 100.7

Color Vector Graphic

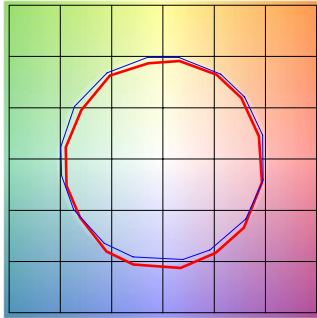


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	91.5	-3.5%	1.2%
2	92.4	-1.8%	2.7%
3	89.8	0.3%	4.5%
4	92.4	-1.7%	0.4%
5	93.3	-0.1%	1.4%
6	94.5	2.1%	-0.6%
7	91.0	-2.5%	0.3%
8	96.9	-0.8%	-0.2%
9	91.6	-0.9%	4.6%
10	86.7	0.7%	7.8%
11	86.3	3.8%	8.5%
12	88.3	6.1%	0.6%
13	90.9	3.1%	-5.2%
14	87.3	4.7%	-7.9%
15	92.1	-1.9%	-2.5%
16	84.5	-0.9%	-10.9%

4000K ONLY (2K6K/27K6) | Rf: 86.4 | Rg: 96.1

Color Vector Graphic



■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	86.5	-5.5%	1.3%
2	90.4	-3.0%	2.3%
3	89.8	-2.1%	3.6%
4	89.1	-3.4%	0.4%
5	88.5	-5.9%	0.1%
6	93.6	-3.0%	-0.4%
7	88.9	-6.2%	1.7%
8	87.3	-5.0%	4.9%
9	82.4	-3.6%	11.3%
10	77.4	-1.8%	12.7%
11	79.8	4.9%	11.4%
12	88.7	4.4%	2.7%
13	88.7	4.0%	-5.1%
14	91.2	2.2%	-3.8%
15	82.7	-0.1%	-9.2%
16	82.8	-2.2%	-7.6%

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