

LIGHT CHANNEL COMPLETE FIXTURE 0.6" RECESSED MILLWORK

24VDC, WARM DIM

REV 07.19.24



DESCRIPTION

Light Channel .6" Recessed Millwork is tailored for projects requiring a seamless design with ample illumination. The shallow profile integrates into various depths of millwork, while the flat 1/8" finished flange offers a minimal aesthetic, enhancing spaces with depth and dimension, seamlessly blending into the architecture while delivering premium task lighting for applications like under cabinets, bathrooms, work surfaces, and more. Light Channel .6" Recessed Millwork is made-to-order, 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](#). Our Light Channels provide high-quality illumination and are 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](#).

FEATURES AND BENEFITS

- Low voltage, 24VDC Power supplies can be remotely located up to 40' away provides installation flexibility
- Slim recessed aluminum profile easily and seamlessly installs into a broad range of millwork applications
- 92+ CRI Warm-Dim strip offers outstanding color accuracy while granting color temperature control through dimming
- Several lens options and multiple finishes provide enhanced flexibility and customization
- Class 2 wiring, eliminates the need for conduit

LENS OPTIONS

- Clear Lens (**C**) provides maximum illumination use of a 40° clear 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**) (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.leeelfilters.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

SPECIFICATIONS

- 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)

INCLUDED COMPONENTS

- 72" Power Connector (Included 1 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

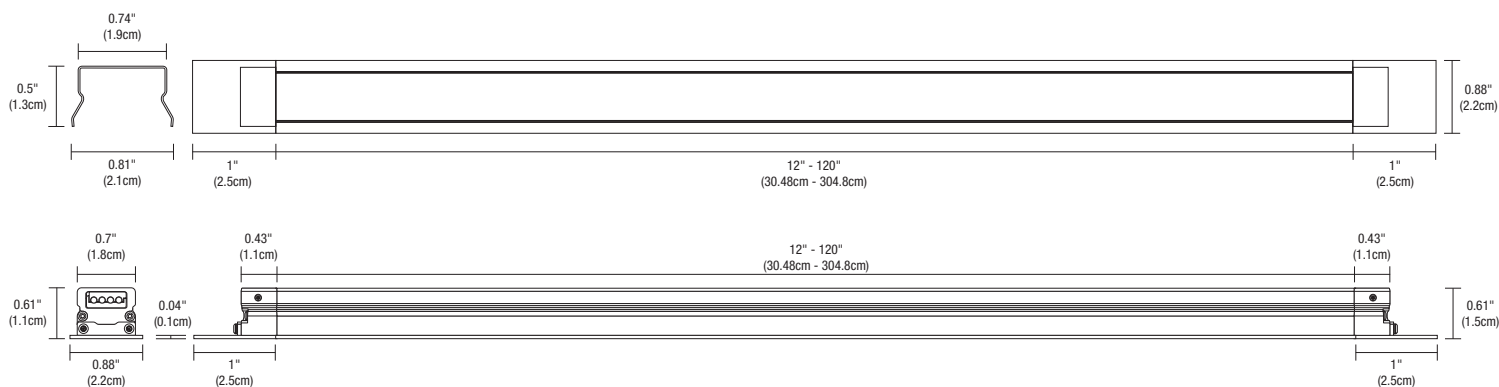
Designed for indoor use only. Recessed Millwork applications include display shelving, cabinetry: under, above and inside shelving, toe-kicks, cove, stairways, paths, and more in both retail and commercial environments.

FINISHES



Product	Wattage	Nominal Size	Lens	Color Temperature	Finish
LCMW.6	5W	60	D	27D	BZ
LCMW.6 Light Channel 0.6" Millwork 5W 4.8 watts 12-120 12" to 120" Order in 3" increments. See chart for exact lengths.					
D	Diffuser Lens		27D	2700K-1800K Warm Dim	
C	Clear Lens		30D	3000K-2000K Warm Dim	
G	Gel Lens				
DLW	Diffused Lens with White Louver				
DLB	Diffused Lens with Black Louver				
CLW	Clear Lens with White Louver				
CLB	Clear Lens with Black Louver				
			BZ	Antique Bronze	
			SA	Satin Aluminum	
			WH	White	

PROJECT		FIXTURE TYPE		DATE	
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LENS OPTIONS

LCMW.6 LIGHT CHANNEL
61° DIFFUSED LENS

White Diffused Lens projects clean lines of light, eliminating pixelation



LCMW.6 LIGHT CHANNEL
26° CLEAR LENS

Clear Lens provides maximum light levels and will show slight pixelation



LCMW.6 LIGHT CHANNEL
DIFFUSED WHITE LENS WITH WHITE LOUVER



LCMW.6 LIGHT CHANNEL
DIFFUSED LENS WITH BLACK LOUVER



LCMW.6 LIGHT CHANNEL
CLEAR LENS WITH WHITE LOUVER



LCMW.6 LIGHT CHANNEL
CLEAR LENS WITH BLACK LOUVER

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

*Foot Candle Data is based off 4' Channel.

30K 40° 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

DIFFUSED			
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			
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 DIFFUSED			
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 CLEAR FROSTED			
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 DIFFUSED			
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 CLEAR FROSTED			
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 MILLWORK WARM DIM					
ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH	WARM DIM WATTAGE	ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH	WARM DIM WATTAGE
12	14	5	66	68	28
15	17	6	69	71	29
18	20	8	72	74	30
21	23	9	75	77	31
24	26	10	78	80	33
27	29	11	81	83	34
30	32	13	84	86	35
33	35	14	87	89	36
36	38	15	90	92	38
39	41	16	93	95	39
42	44	18	96	98	40
45	47	19	99	101	41
48	50	20	102	104	43
51	53	21	105	107	44
54	56	23	108	110	45
57	59	24	111	113	46
60	62	25	114	116	48
63	65	26	117	119	49
			120	122	50

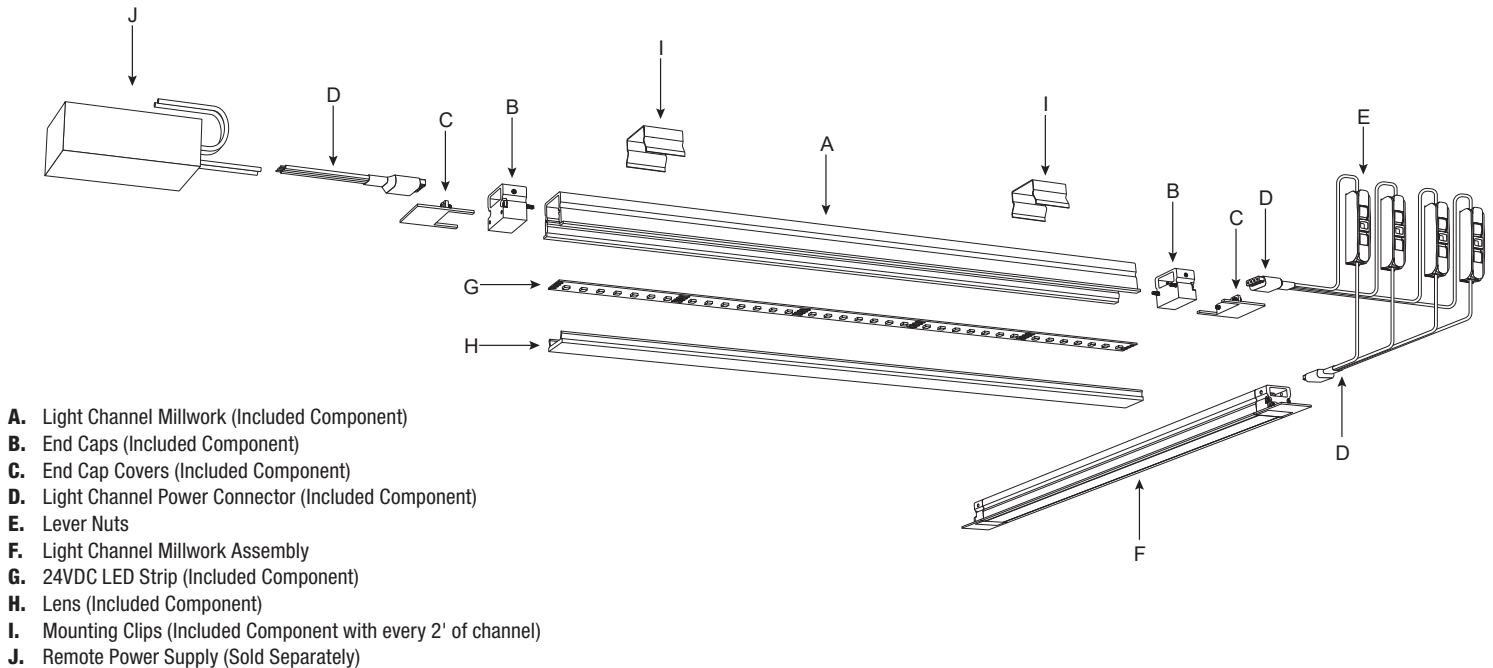
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COMPONENTS: Light Channel 0.6" Millwork System Overview

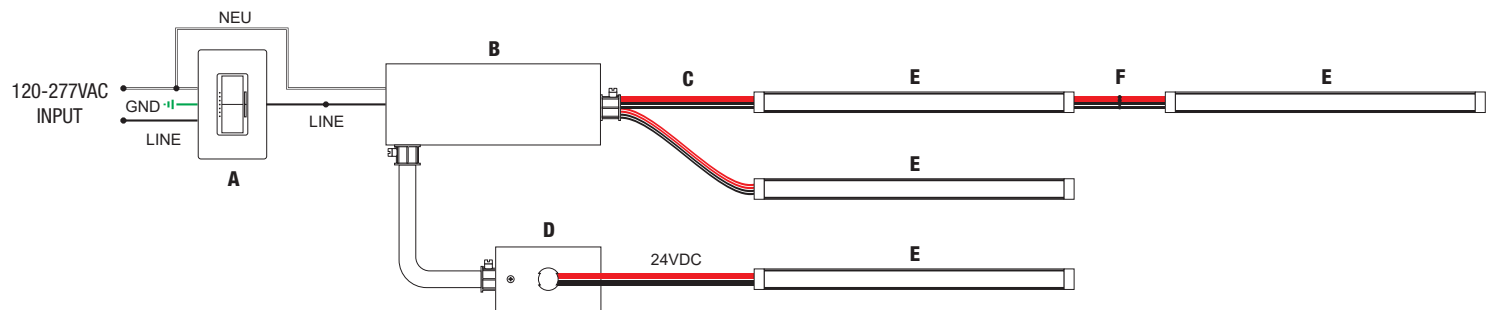


WIRING DIAGRAM: Electronic Low Voltage (ELV) dimming for Indoor Light Channel .6 Millwork

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

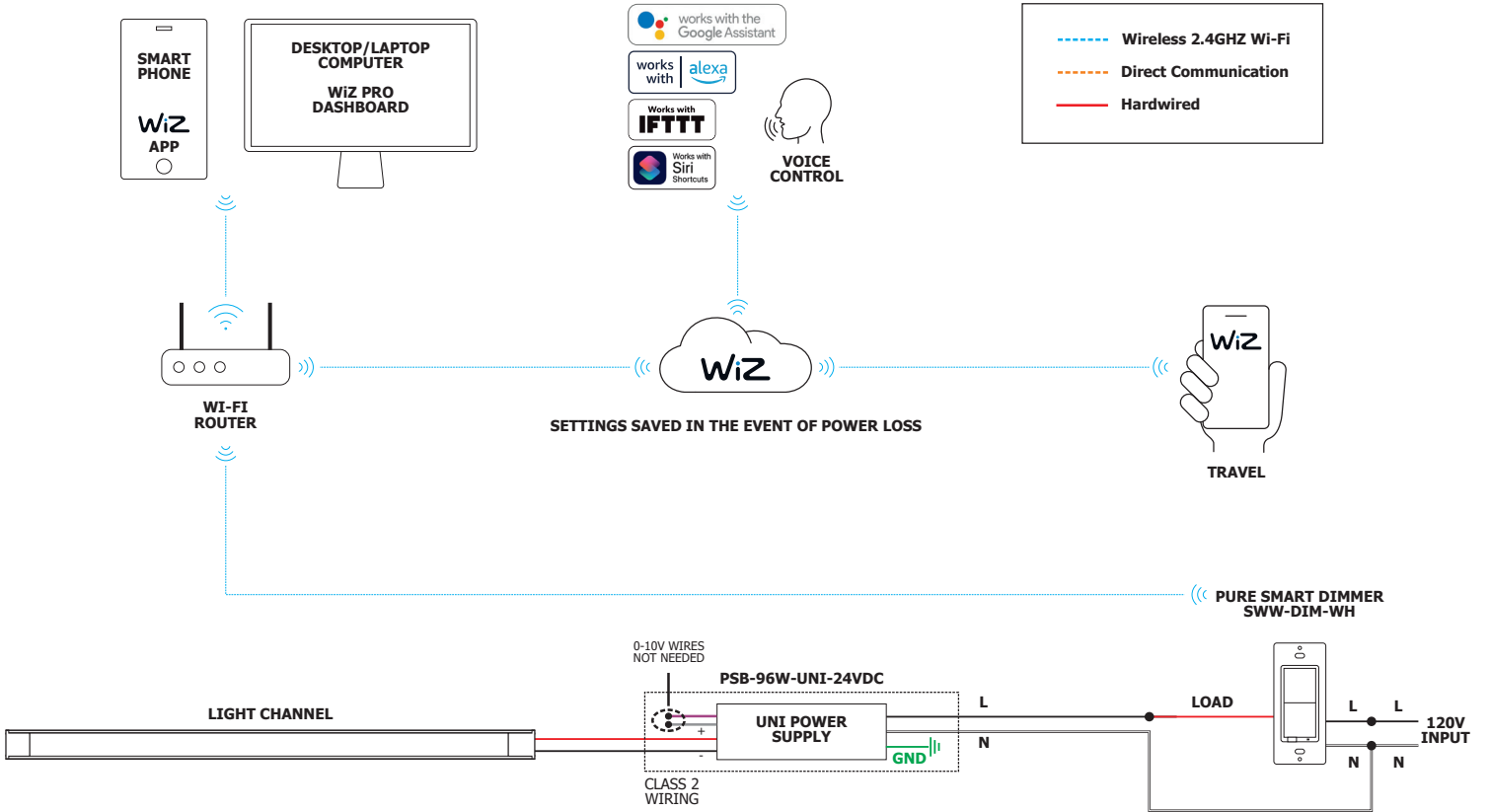
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NETWORK TOPOLOGY USING UNI DRIVER



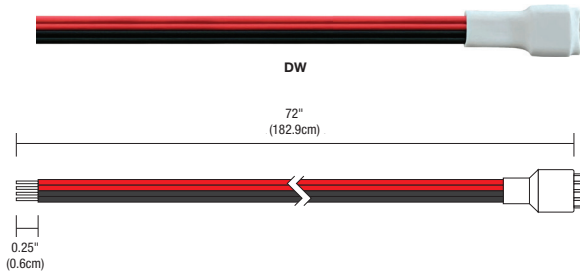
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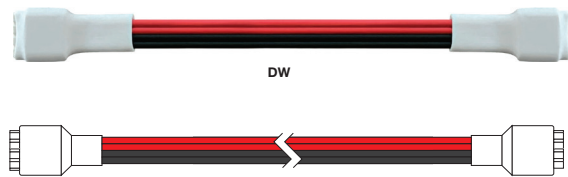
Accessories: Order based on your lighting design specifications or as replacement parts.



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.

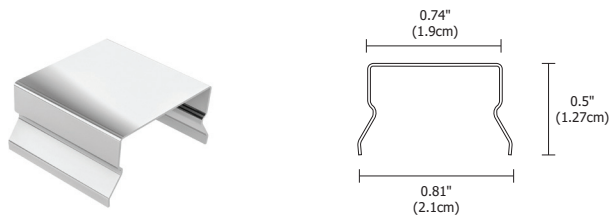
System	Type	Product	Length	Color Temperature
SS	FE	CON	72IN	DW
SS Stomp Strip/Soft Strip	FE Female Pin	CON Connector	72IN 72"	DW Static White/ Warm Dim



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.

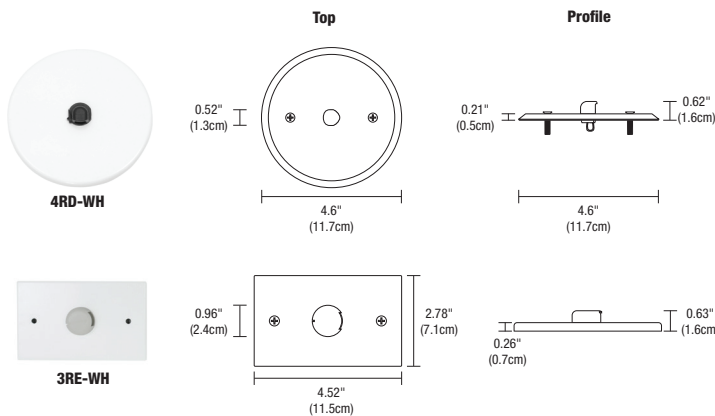
System	Type	Product	Size	Color Temperature
SS	CFX	CON	12IN	DW
SS Stomp Strip/Soft Strip	CFX Flexible Connector	CON Connector	12IN 12 Inches 72IN 72 Inches	DW Static White/ Warm Dim



MOUNTING CLIP

Light Channel comes with standard Mounting Clips. LCMW.6 Mounting Clips are provided with every 2' of Light Channel.

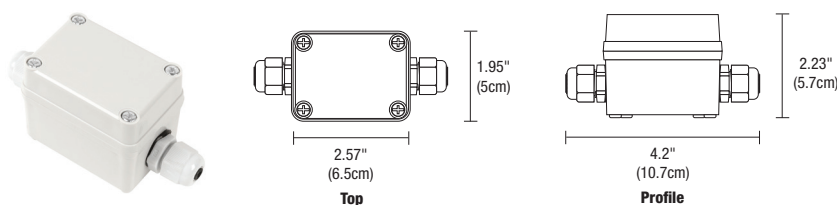
System	Product
LCMW.6	MCL
LCMW.6 Light Channel 0.6" Surface Millwork	MCL Mounting Clip



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

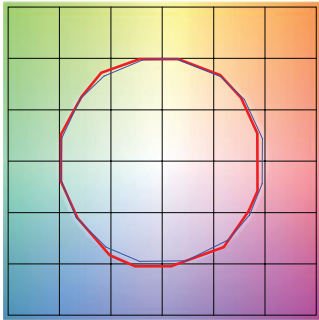
Low voltage Splice Box with connectors.

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

PROJECT		FIXTURE TYPE		DATE	
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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.

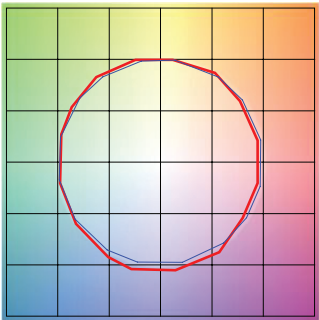
2700D | Rf: 90.7 | Rg: 101.1
Color Vector Graphic



■ 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%