

LIGHT CHANNEL COMPLETE FIXTURE 0.6" RECESSED MILLWORK

24VDC, TUNABLE WHITE

REV 03.07.25



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. Our slim profile, made-to-order LED channels are offered in multiple wattages and 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 are offered with black or white louver options. Order in 2" or 3" increments from 12" up to 120"(10'). Click here for all [Other Color Temperatures](#). Our Light Channels 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
- 93+ CRI Tunable White offered in 2K6K or 27K6 provide 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 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

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)

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

- [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

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.

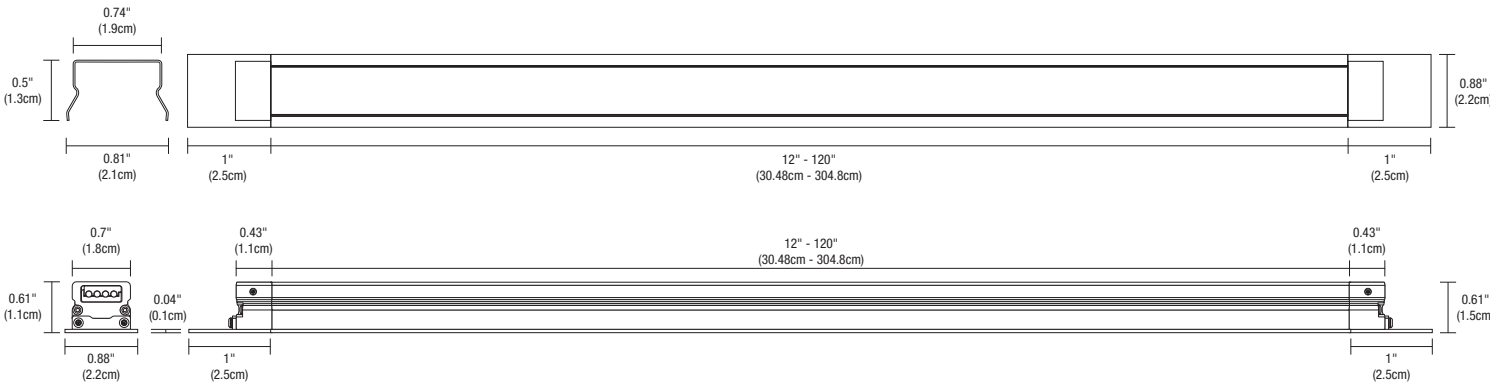
Product	Wattage	Nominal Size	Lens	Color Temperature	Finish
LCMW.6	2W	60	D	2K6K	BZ
LCMW.6 Light Channel 0.6" Millwork	2W 2.5 watts 5W 4.6 watts 7W 7.5 watts	12-120 Available from 12" to 120" in 2" or 3" increments. See chart for exact lengths.	D Diffuser Lens C Clear Lens G Gel Lens DLW Diffused Lens with White Louver DLB Diffused Lens with Black Louver CLW Clear Lens with White Louver CLB Clear Lens with Black Louver	2K6K Tunable White 2000K-6500K 27K6 Tunable White 2700K-6500K	BZ Antique Bronze SA Satin Aluminum WH White

PROJECT		FIXTURE TYPE		DATE	
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LENS OPTIONS



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



LCMW.6 LIGHT CHANNEL 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 (2K6K)

	DIFFUSED LENS																											
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	
LUMENS PER FOOT (lm/ft)	64	65	66	67	68	70	76	82	88	156	162	168	175	181	194	208	210	212	217	227	237	247	257	278	292	295	298	
LUMENS PER WATT (lm/w)	35	33	33	33	34	35	90	41	49	34	34	35	36	38	40	43	44	46	34	31	33	34	36	39	41	41	47	
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	

	CLEAR FROSTED LENS																										
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	75	76	77	79	80	82	89	96	103	182	190	197	205	212	227	243	246	248	254	266	278	290	301	325	343	346	350
LUMENS PER WATT (lm/w)	41	38	39	39	40	41	90	48	57	40	40	41	43	44	47	51	51	54	40	37	39	40	42	45	48	48	55
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+

	WHITE LOUVER CLEAR																											
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	
LUMENS PER FOOT (lm/ft)	50	51	52	52	53	54	60	64	69	122	127	132	137	141	151	162	164	165	169	177	185	193	201	217	228	231	233	
LUMENS PER WATT (lm/w)	27	25	26	26	27	27	90	32	38	26	26	27	28	29	32	34	34	36	26	25	26	27	28	30	32	32	36	
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	

	WHITE LOUVER DIFFUSED																										
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	43	43	44	45	45	46	51	55	59	104	108	112	116	121	129	138	140	141	144	151	158	165	171	185	195	197	199
LUMENS PER WATT (lm/w)	23	22	22	22	23	23	90	27	33	23	23	23	24	25	27	29	29	31	23	21	22	23	24	26	27	27	31
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+

	BLACK LOUVER CLEAR																										
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	29	29	29	30	30	31	34	36	39	69	72	75	77	80	86	92	93	94	96	101	105	110	114	123	130	131	132
LUMENS PER WATT (lm/w)	15	14	15	15	15	15	90	18	22	15	15	16	16	17	18	19	19	20	15	14	15	15	16	17	18	18	21
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+

	BLACK LOUVER DIFFUSED																										
WATTS PER FOOT	2K6K 2W (2.5 watts)									2K6K 5W (4.6 watts)									2K6K 7W (7.5 watts)								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	24	25	25	25	26	26	29	31	33	59	61	64	66	68	73	79	79	80	82	86	90	93	97	105	111	112	113
LUMENS PER WATT (lm/w)	13	12	13	13	13	13	90	16	18	13	13	13	14	14	15	16	17	17	13	12	12	13	14	15	15	16	18
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+

NOMINAL DELIVERED LUMENS (27K6)

	DIFFUSED LENS																				
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)	70	83	85	87	95	102	98	218	225	231	238	229	226	219	254	260	270	279	276	274	273
LUMENS PER WATT (lm/w)	35	33	34	35	38	41	49	55	56	56	55	56	57	56	40	36	37	39	38	38	43
CRI	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+

	CLEAR LENS																							
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)	82	97	99	102	112	120	114	256	263	271	279	268	265	257	298	305	316	327	324	321	320			
LUMENS PER WATT (lm/w)	41	39	40	41	45	48	57	64	66	66	65	65	66	65	47	42	44	45	45	45	50			
CRI	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+			

	WHITE 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)	54	65	66	68	74	80	76	171	176	181	186	179	177	171	199	203	211	218	216	214	213			
LUMENS PER WATT (lm/w)	27	26	27	27	30	32	38	43	44	44	43	44	44	44	31	28	29	30	30	30	33			
CRI	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+	93+	93+	94+	94+	94+	93+	93+			

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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" MILLWORK TUNABLE WHITE											
Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Recessed Length (Inches)	Overall Length with End Caps (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Recessed Length (Inches)	Overall Length with End Caps (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Recessed Length (Inches)	Overall Length with End Caps (Inches)
12	12.0	13.0	14.0	48	48.0	49.0	50.0	84	84.0	85.0	86.0
15	14.4	15.4	16.4	51	50.4	51.4	52.4	87	86.4	87.4	88.4
17	16.8	17.8	18.8	53	52.8	53.8	54.8	89	88.8	89.8	90.8
20	19.2	20.2	21.2	56	55.2	56.2	57.2	92	91.2	92.2	93.2
22	21.6	22.6	23.6	58	57.6	58.6	59.6	94	93.6	94.6	95.6
24	24.0	25.0	26.0	60	60.0	61.0	62.0	96	96.0	97.0	98.0
27	26.4	27.4	28.4	63	62.4	63.4	64.4	99	98.4	99.4	100.4
29	28.8	29.8	30.8	65	64.8	65.8	66.8	101	100.8	101.8	102.8
32	31.2	32.2	33.2	68	67.2	68.2	69.2	104	103.2	104.2	105.2
34	33.6	34.6	35.6	70	69.6	70.6	71.6	106	105.6	106.6	107.6
36	36.0	37.0	38.0	72	72.0	73.0	74.0	108	108.0	109.0	110.0
39	38.4	39.4	40.4	75	74.4	75.4	76.4	111	110.4	111.4	112.4
41	40.8	41.8	42.8	77	76.8	77.8	78.8	113	112.8	113.8	114.8
44	43.2	44.2	45.2	80	79.2	80.2	81.2	116	115.2	116.2	117.2
46	45.6	46.6	47.6	82	81.6	82.6	83.6	118	117.6	118.6	119.6
								120	120.0	121.0	122.0

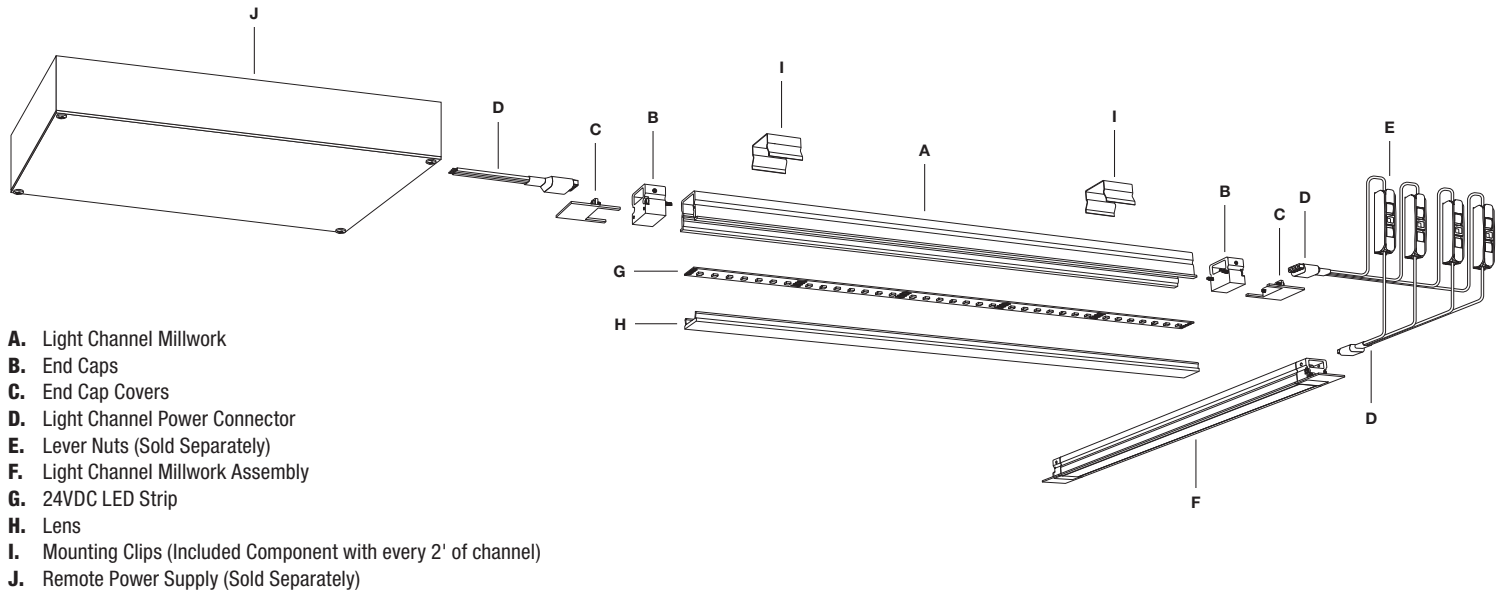
PROJECT		FIXTURE TYPE		DATE	
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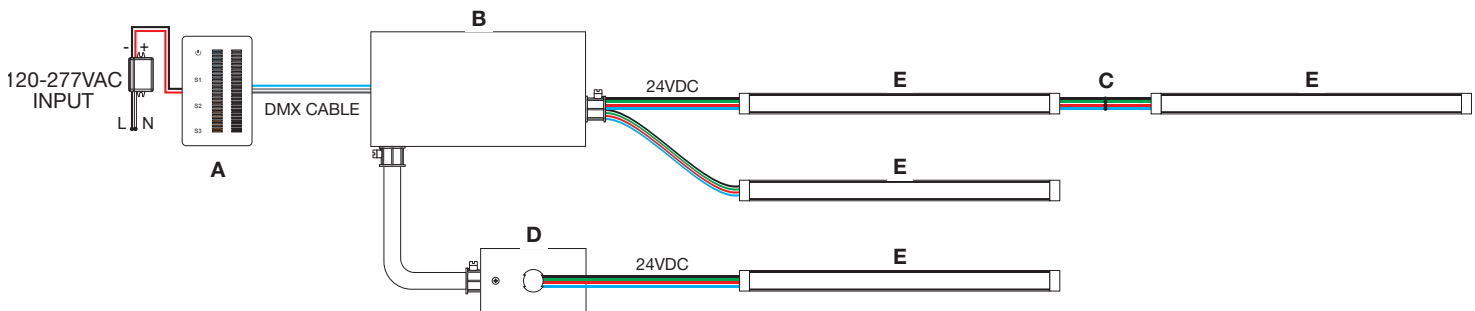
COMPONENTS Light Channel 0.6" Millwork System Overview



WIRING DIAGRAM: DMX dimming/control for Light Channel .6 Micro Grazer

Power Supply: 120VAC input, 24VDC 96 watt output PSB-100W-24VDC-2XK

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-2XK
- C. Light Channel Power Connector SS-FE-CON-72IN-RGB with Lever Nuts
- D. 3" Rectangle Canopy Cover 3RE-WH
- E. Light Channel Fixture

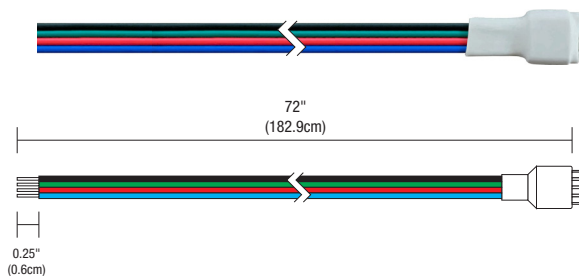
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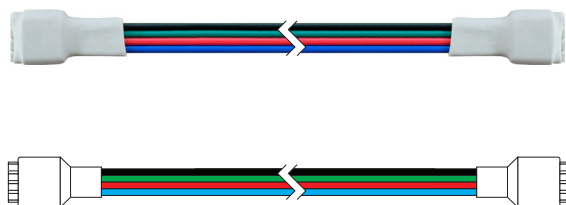
ACCESSORIES: Order based on your lighting design specifications or as replacement parts.



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.

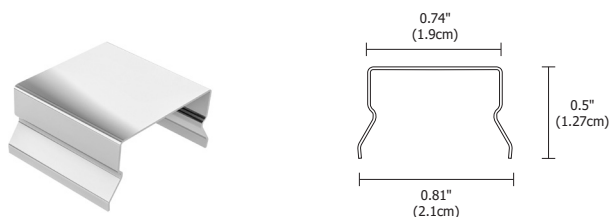
System	Type	Product	Length	Color Temperature
SS	FE	CON	72IN	RGB
SS Stomp/Soft Strip	FE Female Pin	CON Connector	72IN 72"	RGB RGB (Tunable White Compatible)



FLEXIBLE CONNECTOR

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

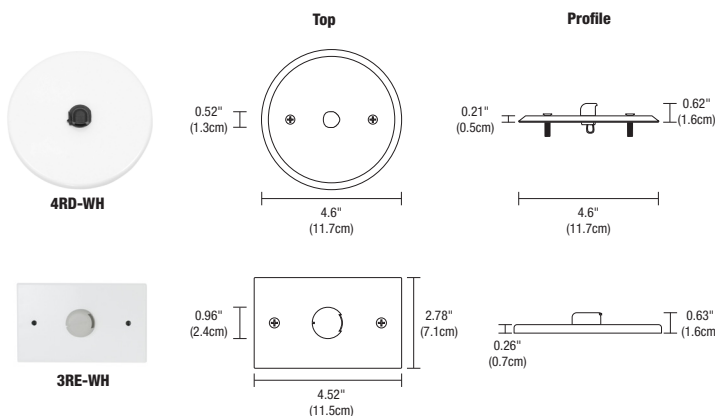
System	Type	Product	Size	Color Temperature
SS	CFX	CON	12IN	RGB
SS Stomp Strip/Soft Strip	CFX Flexible Connector	CON Connector	12IN 12 Inches 72IN 72 Inches	RGB RGB (Tunable White Compatible)



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



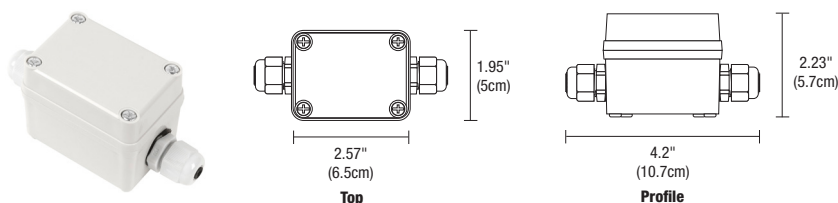
CANOPY COVER & SPLICE BOX

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 4RD 4" Round Canopy Cover	WH White

JUNCTION BOX

Low voltage Splice Box with connectors.



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

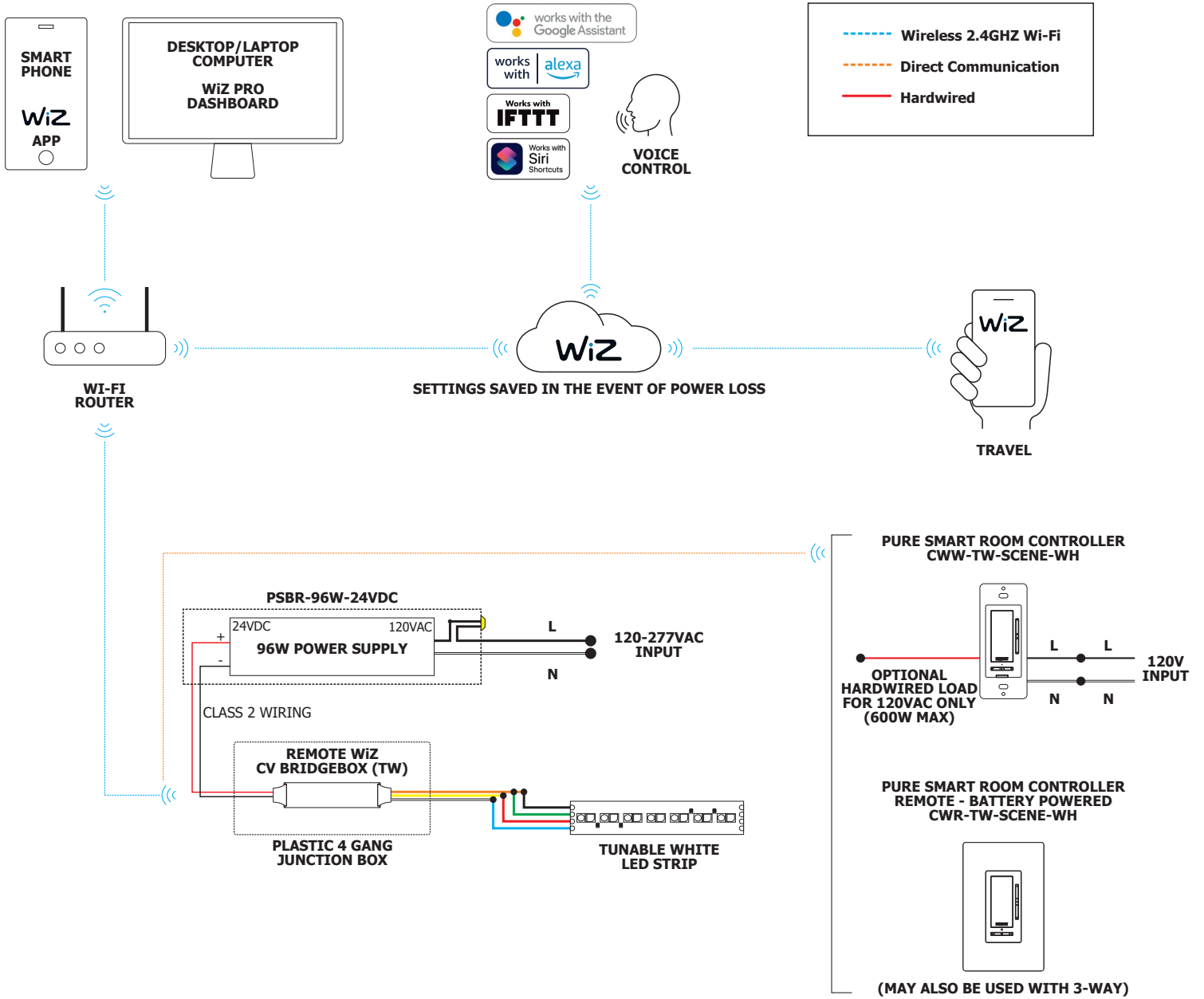
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NETWORK TOPOLOGY

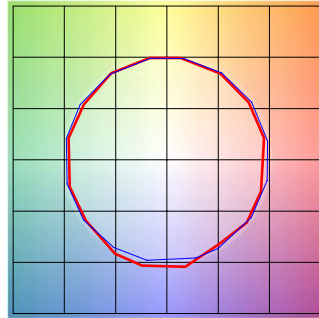


PROJECT		FIXTURE TYPE		DATE	
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TM-30-15 DATA: The data below is for Tunable White bare LED Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected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

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

Color Vector Graphic

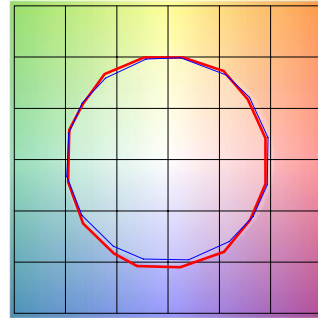


■ Test ■ Reference

		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

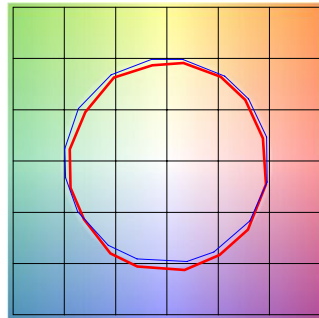


■ Test ■ Reference

		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%