24VDC, SURFACE MOUNT, WARM DIM



DESIGNED BY GREGORY KAY I ASSEMBLED IN AMERICA REV 07.01.24

DESCRIPTION

Our Warm Dim 45° Surface-mounted Light Channel is a versatile made-to-order, 24VDC Class 2 luminaire. The channel's 45° angle design provides designers with enhanced flexibility when it comes to illuminating challenging areas. Offered in lengths from 12" to 120"(10") in 3" increments for precise sizing. Available in two variations (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, reminiscent of candlelight along the halogen curve. With its combination of flexibility, customization, and lighting quality, the Light Channel 45° is an excellent choice for a wide range of applications. Click here for all Other Color Temperatures. For Field cuttable runs, see DIY spec sheet. Fixture 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

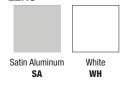
FEATURES AND BENEFITS

- Low voltage, 24VDC Power supplies can be remotely located up to 40' away provides installation flexibility
- · Slim profile aluminum extrusion easily installs into small spaces
- 92+ CRI LED strip offers outstanding color accuracy
- · Class 2 wiring, eliminates the need for conduit
- 45° angle design provides enhanced flexibility when it comes to illuminating challenging areas

LENS OPTIONS

- Clear Lens (C) provides maximum illumination using a 40° transparent clear lens, LED diodes will show
- Diffused White Lens (D) projects clean lines of light through a 100° lens eliminating pixelation
- Diffused Lens with Gel Color Filter (G) (Provided by Customer) Clear and Diffused Lens are Gel Color Filter Suitable allowing for color personalization. Zircon LED Gel filters recommended. Purchase Gel Lens from www.leefilters.com. See manufacturer spec sheet for more information.

LENS



LAMP

- 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
- 92+ CRI
- 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)

POWER SUPPLIES*, DIMMERS & CONTROLS (REMOTE 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

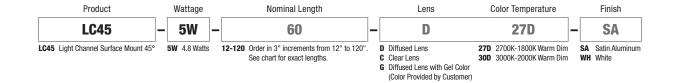
Pure Smart™ Wi-Fi Dimmer & Switch

COMPLIANCE

*Title 24 JA8 listed when used with PureEdge remote Universal power Supplies, ETL, Class 2, Damp Location, Made in USA.

APPLICATIONS

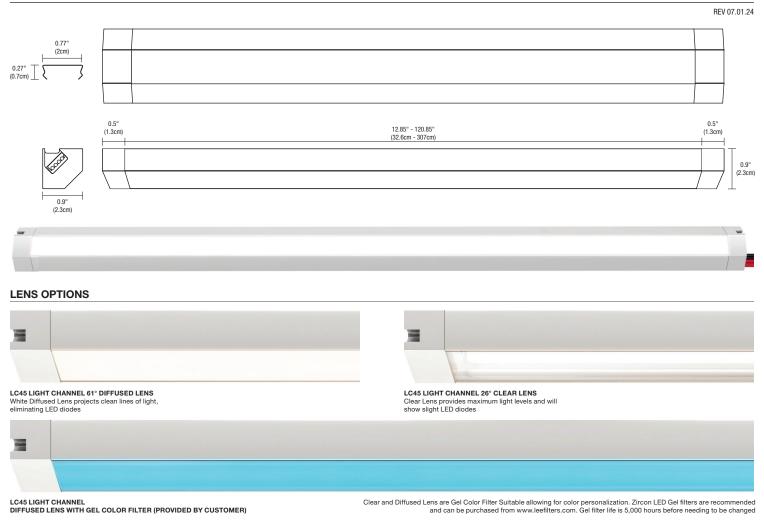
Designed for indoor use only. Ideal applications include display shelving and cabinetry, under-cabinet, cabinet lightning, coves, and bars within residential, commercial, retail, and hospitality environments.



PROJECT	FIYT	TURE TYPE	DATE	
ITTOOLOT				







NOMINAL DELIVERED LUMENS

	DIFFUSI	ED LENS	CLEAR LENS		
WATTS PER FOOT	5w (4.8 watts)		5w (4.8 watts)		
COLOR TEMPERATURE	27D	30D	27D	30D	
LUMENS PER FOOT (Im/ft)	256	267	300	313	
LUMENS PER WATT (Im/w)	53	56	63	65	
CRI	92+	92+	92+	92+	
RF	90	90	90	90	
RG	99	99	99	99	

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 40° 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	
THOULOT		DAIL	







REV 07.01.24

ACTUAL LENGTHS FOR LIGHT CHANNEL 45° WARM DIM						
ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH	ORDERING CODE (NOMINAL LENGTH) /ILLUMINATED LENGTH	ACTUAL LENGTH			
12	13	66	67			
15	16	69	70			
18	19	72	73			
21	22	75	76			
24	25	78	79			
27	28	81	82			
30	31	84	85			
33	34	87	88			
36	37	90	91			
39	40	93	94			
42	43	96	97			
45	46	99	100			
48	49	102	103			
51	52	105	106			
54	55	108	109			
57	58	111	112			
60	61	114	115			
63	64	117	118			
·		120	121			

PROJECT	FIXTURE TYP	DATI	

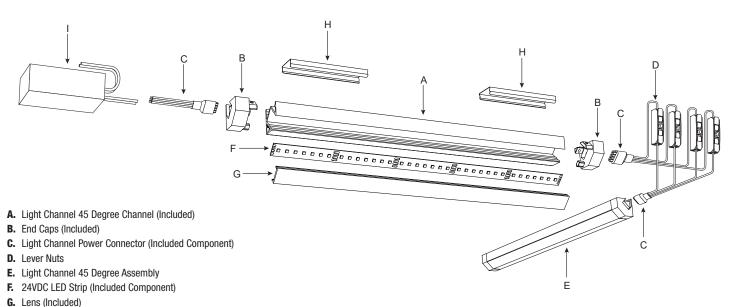


24VDC, SURFACE MOUNT, WARM DIM



REV 07.01.24

Components: Light Channel 45° system overview

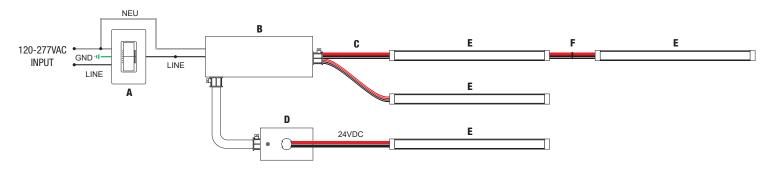


WIRING DIAGRAM: Electronic Low Voltage (ELV) dimming for Indoor Light Channel 45°

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

H. Mounting Clips (Included with every 2' of channel)I. Remote Power Supply (Sold Separately)

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

PRC	DJECT	FIXTURE TYPE	DATE	
1110	JULUI	TIXTOTIL TITL	DAIL	

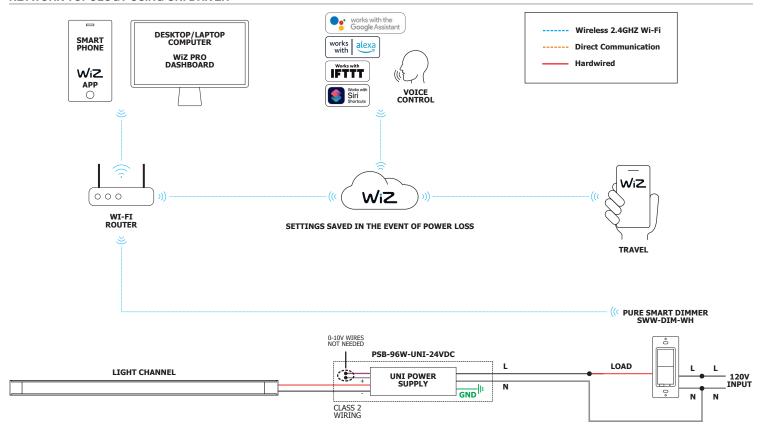


24VDC, SURFACE MOUNT, WARM DIM



REV 07.01.24

NETWORK TOPOLOGY USING UNI DRIVER



24VDC, SURFACE MOUNT, WARM DIM



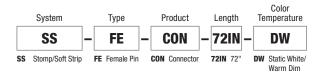
REV 07.01.24

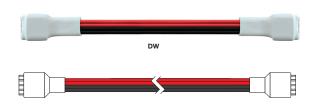
Accessories: Order based on your lighting design specifications or as replacement parts.



LIGHT CHANNEL POWER CONNECTOR

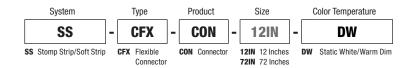
One Female Power Connector is included with each order of channel. For jumper connections, use our Flexible Connector or WAGO 221 lever nuts according to your specific application requirements.





FLEXIBLE CONNECTOR

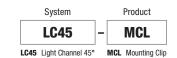
Flexible connectors link two sections of the Light Channel end to end. WAGO 221 lever nuts can also be used as jumper connections according to your specific application requirements.

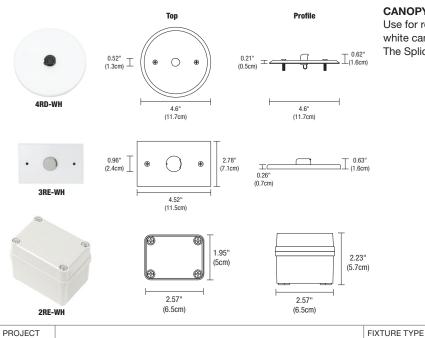




MOUNTING CLIP

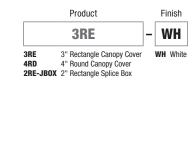
Light Channel comes with standard mounting clips. LC45-MCL mounting clips are provided with every 2' of Light Channel.





CANOPY COVERS & SPLICE BOXES

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.



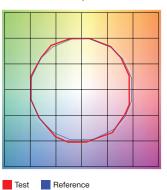
24VDC, SURFACE MOUNT, STATIC WHITE



REV 07.01.24

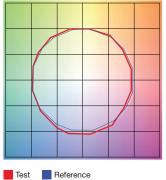
TM-30-15 DATA: The data below is for bare LED Warm Dim Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

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



		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



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	
---------------------------	--