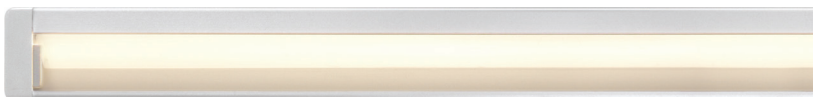


LIGHT CHANNEL 45° DIY RECESSED MILLWORK

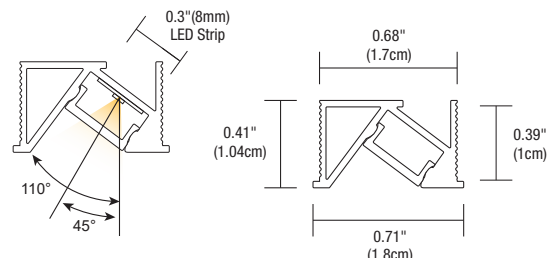
24VDC, STATIC WHITE & WARM DIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 05.13.26



LCMW45 Light Channel 45° Diffused Lens



DESCRIPTION

The DIY Light Channel 45° Recessed Millwork Series is designed for projects that demand a seamless aesthetic with exceptional glare-free illumination. Its shallow profile (3/8" high) integrates into a wide range of millwork depths, while the flat 1/16" finished flange provides a minimal, architectural look that enhances depth and dimension. This fixture blends effortlessly into its surroundings while delivering premium-quality task lighting—ideal for under cabinets, bathrooms, work surfaces, and more.

Crafted with slim aluminum channel extrusions, LED strips, and lenses, the system is fully field-cuttable and available in increments from 2 to 8 feet. A 5-year pro-rated warranty ensures lasting performance. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

FEATURES & BENEFITS

- 24VDC 8mm LED Strip with Designer-Grade CRI is high performance, highly durable and designed to withstand the harsh elements of a job site, including stomping and twisting
- Asymmetrical Design: 110° focused beam, angled 45° off-nadir for controlled illumination
- 3/8" Low-Profile Integration: Perfect for recessed applications where discreet, compact lighting is required in small spaces.
- Closet-Safe: When specified at 2.0 watts per foot or less, fixture is compliant with NEC standards for use in clothes closet storage areas
- Available with 6 Foot Soldered Leads
- Aluminum channel extrusions, LED strips and lenses are easily cut and assembled in the field
- Available in 2 or 5 watts per foot
- Low Voltage, Class 2 power supplies can be remotely located up to 40' away

LAMP

- 8mm wide LED strip, Static White Color Temperatures ranging from **2700K** through **4000K**

REQUIRED COMPONENTS

- Light Channel 45° Millwork and Lens (Mounting Clips included with every 2' of channel)
- End Caps (sold in pairs)
- 24VDC LED Strip

REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)

- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)
- [UNI Driver: Universal Dimming](#) (ELV, TRIAC, 0-10V) ELV & TRIAC [Smart Dimmer & Switch](#)
- [Lutron](#) Hi-Lume/Ecosystem

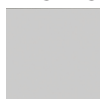
COMPLIANCE

*Title 24 JA8 listed for 2700K CCT and above when used with PureEdge remote Universal power supplies, ETL, Class 2, Damp Location, Assembled in USA.

APPLICATIONS

Provides maximum light levels for task and general illumination. Indoor only - Under/above cabinet, cove, and retail, recessed into millwork.

FINISHES



Satin Aluminum
SA

NOMINAL DELIVERED LUMENS

DESCRIPTION	HIGH OUTPUT - DIFFUSED LENS							
	STATIC WHITE							
	2W				5W			
WATTS PER FOOT								
COLOR TEMPERATURE	27K	30K	35K	40K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	316	323	370	402	662	663	760	826
LUMENS PER WATT (lm/w)	143	112	129	140	110	112	129	140
CRI	93+	94+	94+	94+	96+	96+	94+	96+

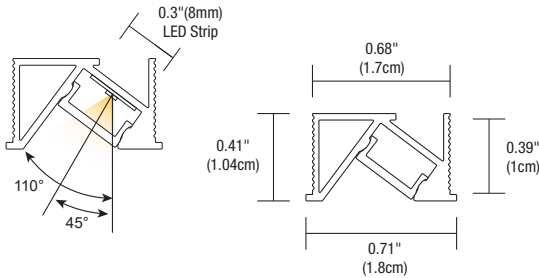
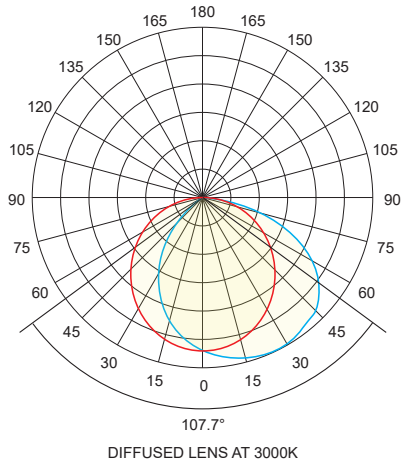
LIGHT CHANNEL 45° DIY RECESSED MILLWORK 24VDC, STATIC WHITE & WARM DIM

REQUIRED COMPONENTS: Select Light Channel 45° Recessed Millwork option and End Caps based on lighting design.

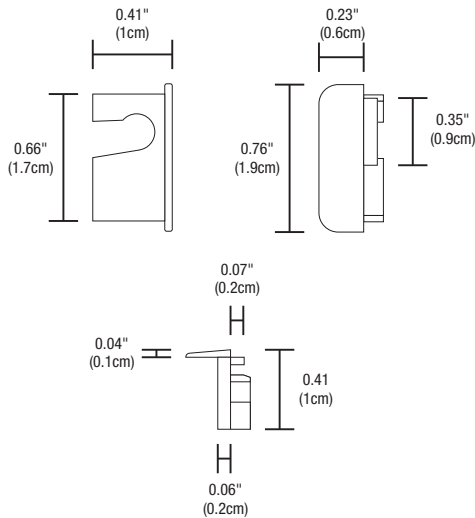


LIGHT CHANNEL 45° RECESSED MILLWORK

Start the ordering process by selecting the desired length. Next, order the LED Strip, End Caps and Power Feed. At 0.39" tall, the channel has a low profile, made of aluminum, and fits a 24VDC LED Strip inside. The channel and lens may be cut in the field, and may be joined together using Wago lever nuts. Mounting Clips are included with every 18" of channel, and can also be ordered separately as replacement parts.



System	Length in Feet	Lens	Finish
LCMW45	4FT	D	SA
LCMW45 Light Channel 45° Recessed Millwork	2 - 8FT 2 - 8 feet long	D Diffused Lens	SA Satin Aluminum



END CAPS

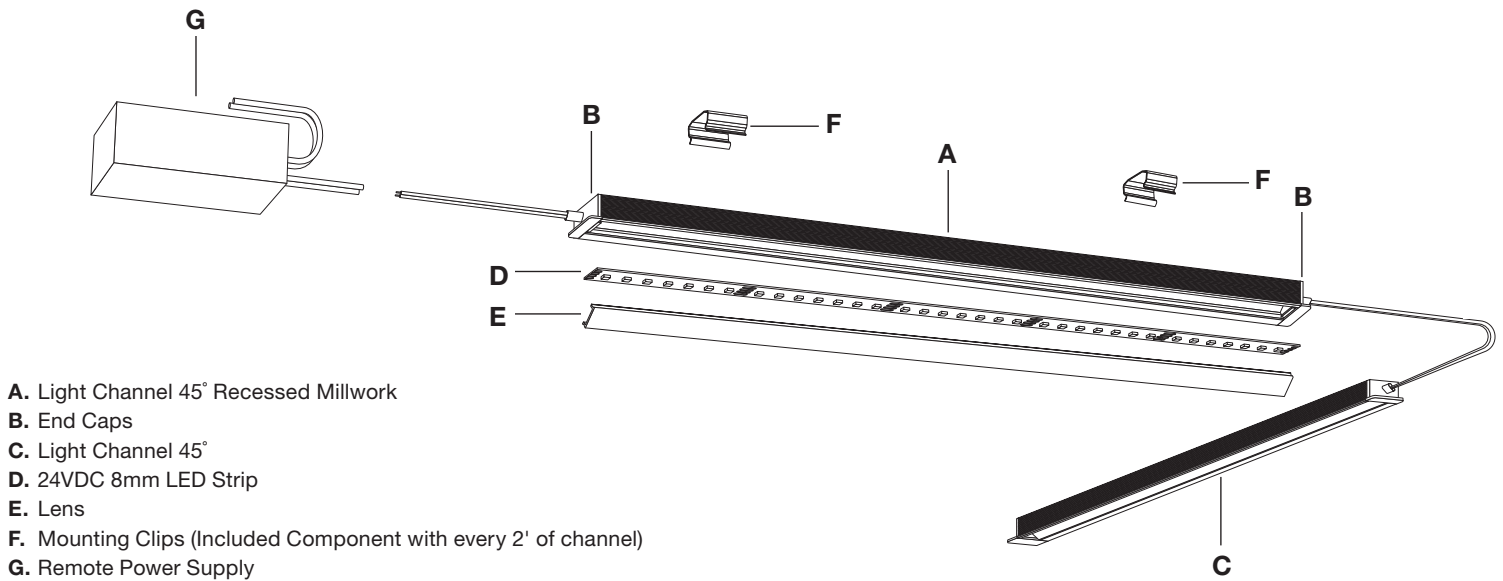
End Caps are sold in pairs and provide a finished look at the end of a run as well as hold the required power connector.

System	Product	Type	Finish
LCMW45	PFE	CA	SA
LCMW45 Light Channel 45° Recessed Millwork	PFE Power Feed	CA End Caps	SA Satin Aluminum

LIGHT CHANNEL 45° DIY RECESSED MILLWORK

24VDC, STATIC WHITE & WARM DIM

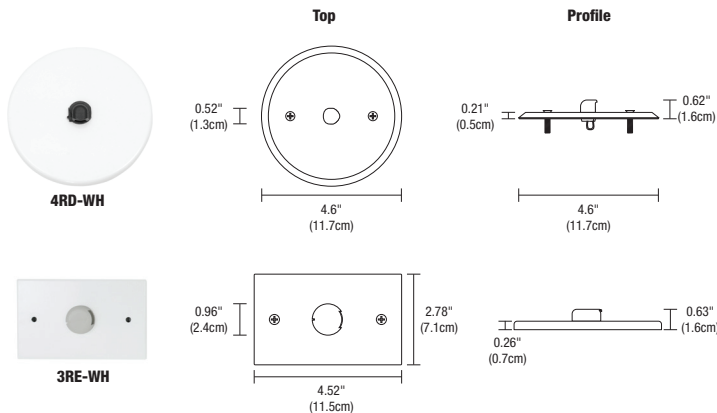
LIGHT CHANNEL 45° RECESSED MILLWORK SYSTEM OVERVIEW: TRADITIONAL DIMMING, 0-10, DMX AND DALI



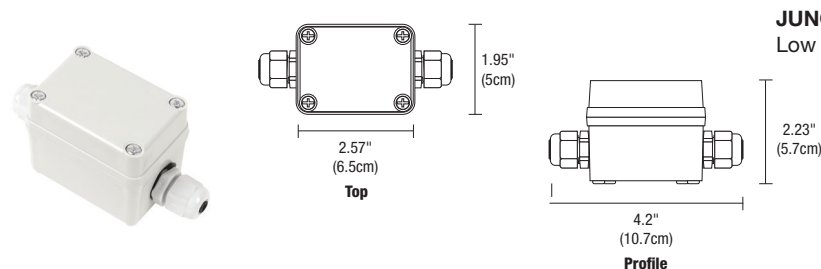
ACCESSORIES: Order based on lighting design or as replacement parts.

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.



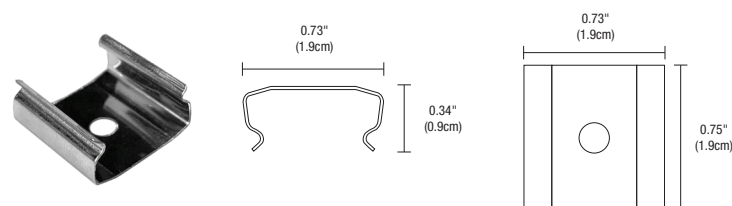
Product	Finish
3RE	WH
3RE 3" Rectangle Canopy Cover	WH White
4RD 4" Round Canopy Cover	



JUNCTION BOX

Low voltage Splice Box with connectors.

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



MOUNTING CLIP

Light Channel comes with standard Mounting Clips. LCMW45 Mounting Clips are provided with every 18" of Light Channel.

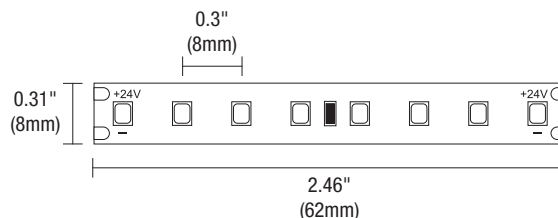
System	Product
LCMW45	MCL
LCMW45 Light Channel 45° Recessed Millwork	MCL Mounting Clip

LED STRIP, STATIC WHITE

24VDC WITH PIN CONNECTORS & SOLDERED LEADS

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 05.13.26



Our Low Voltage LED strips are highly durable, designed to withstand the harsh elements of a job site, and precision engineered to provide superior color rendering up to 92+ CRI. LED Strips are used for our **DIY** (Do-it-Yourself) fixtures and systems.

FEATURES & BENEFITS

- Offered with Pre-soldered leads reducing time and labor during installation
- Developed to meet popular demand for resilient performance without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produces uniform light distribution without visible diodes or hot spots when used within a diffused lens
- 4oz Layer of Copper Busbar: Provides superior heat dissipation and less voltage drop equivalent to 14AWG wire
- Premium Coating: Optically Clear Silicone prevents fading over time
- Mounting: Industrial 3M tape lined strip for strong, self-adhesion to most smooth, finished surfaces
- Suitable for indoor damp locations
- Warranty: Includes a 5-year pro-rated warranty

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 2WDC, 2.5 watts per foot - 40'
- 5WDC, 4.4 watts per foot - 20'

LAMP

- Static White Color Temperatures ranging from **2700K** through **4000K**
- Warm Dim: **27D** and **30D** dim down to 1800K, resembling halogen light sources
- Average life: 50,000 hours

SPECIFICATIONS

- 24VDC
- 2.5 or 4.4 watts per foot
- Sold in 1' increments
- Field-cutttable in 2.4" increments
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

REMOTE POWER SUPPLIES*, DIMMING & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

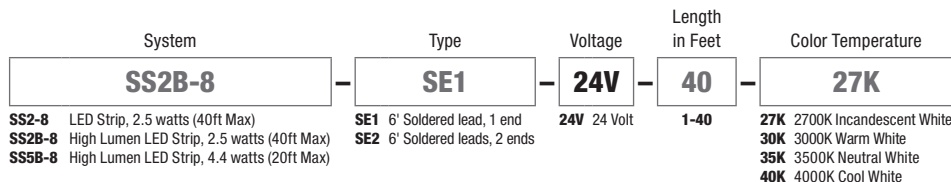
- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)
- [UNI Driver: Universal Dimming \(ELV, TRIAC, 0-10V\)](#)
- [Electronic Low Voltage \(ELV\)](#)* 50W (fits inside junction box)
- ELV & TRIAC [Smart Dimmer & Switch](#)
- [DALI/DALI-2](#)
- [Lutron](#) Hi-Lume/Ecosystem

*In-Wall Mounting and drop ceiling kits available for select power supplies
 *ELV power supplies are not compatible with nLight

APPROVALS

Class 2 Wiring up to 100 watts, Indoor Damp Location Suitable, RoHS, ETL listed.

LAMP DATA	SS2-8				SS2B-8 (High Lumen)				SS5B-8 (High Lumen)			
WATTS PER FOOT	2.5W				2.5W				4.4W			
COLOR TEMPERATURE	27K	30K	35K	40K	27K	30K	35K	40K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	287	299	343	362	553	565	647	703	1159	1162	1331	1446
LUMENS PER WATT (lm/w)	115	120	137	145	201	202	226	245	193	197	226	245
CRI	92+	92+	92+	92+	93+	94+	94+	94+	93+	94+	94+	96+



LED STRIP TM30 DATA

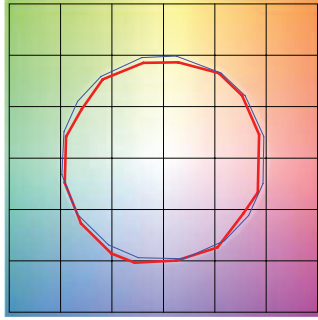
24VDC, STATIC WHITE & WARM DIM

REV 05.13.26

TM-30-15 DATA: The data below is for bare LED Static White 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.

2700K | Rf: 87.7 | Rg: 96.1

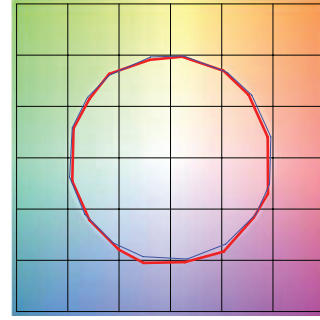
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7

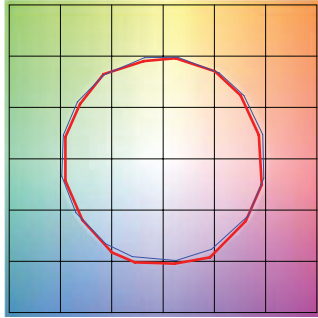
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5

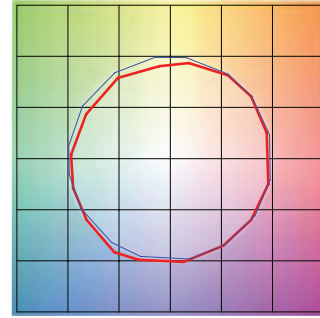
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

4000K | Rf: 87.6 | Rg: 96.8

Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.9	-2.4%	2.5%
2	93.3	-0.4%	0.8%
3	94.8	-1.0%	-0.6%
4	87.9	-4.9%	-3.6%
5	85.3	-9.4%	-2.6%
6	90.2	-6.0%	0.2%
7	85.3	-7.6%	4.6%
8	83.7	-4.1%	8.2%
9	79.5	-1.1%	13.8%
10	78.6	1.5%	12.1%
11	83.5	6.4%	7.8%
12	90.9	3.6%	-1.1%
13	88.3	1.7%	-6.3%
14	91.9	-0.4%	-2.2%
15	84.5	-0.9%	-5.5%
16	84.7	-1.1%	-4.4%