LIGHT CHANNEL COMPLETE FIXTURE 0.3" LIGHT CHANNEL
24VDC 5W, LAZER STRIP COB™ TUNABLE WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

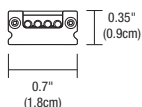**PURE EDGE LIGHTING**

REV 04.12.22

LCS.3 LIGHT CHANNEL 100° DIFFUSED LENS WITH LAZER STRIP
Diffused Lens provides a greater dispersion of light levels without pixelation

LCS.3 LIGHT CHANNEL 100° CLEAR LENS WITH LAZER STRIP
Clear Lens provides maximum light levels without pixelation

0.35" (0.9cm)
0.7" (1.8cm)

FEATURES & BENEFITS
- The paintable surface mount channel is available in various sizes up to 120", for longer continuous runs use DIY Light Channel .3 Surface Mount
- Lazer Strip: Remote Phosphor Technology eliminates Pixelation.
- Tunable White 2000K-6500K **(2K6K)** grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Daylight White)
- 5 watts per foot.
- High CRI offers excellent color-rendering
- 24VDC Low Voltage, Class 2 wiring up to 100 watts.
- Remote Power Supplies sold separately
- 5 year warranty included

APPLICATIONS
- Indoor damp or dry locations
- Suitable for small spaces requiring a channel less than 0.6" tall
- Task lighting, under/above cabinets, coves and retail displays

LENS OPTIONS
- **(C)** Clear Lens provides maximum illumination use of a 100° transparent clear lens
- **(D)** Diffused White Lens projects clean lines of light 100° eliminating pixelation
- **(G)** Diffused Lens with gel color **(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.leefilters.com. See manufacturer spec sheet for more information.

INCLUDED COMPONENTS
- 6' of wire leads at one or both ends of the fixture
- Mounting Clips (Included with every 2' of Channel)

ACCESSORIES (SOLD SEPARATELY)
- Mounting Clips
- Zircon gel filters

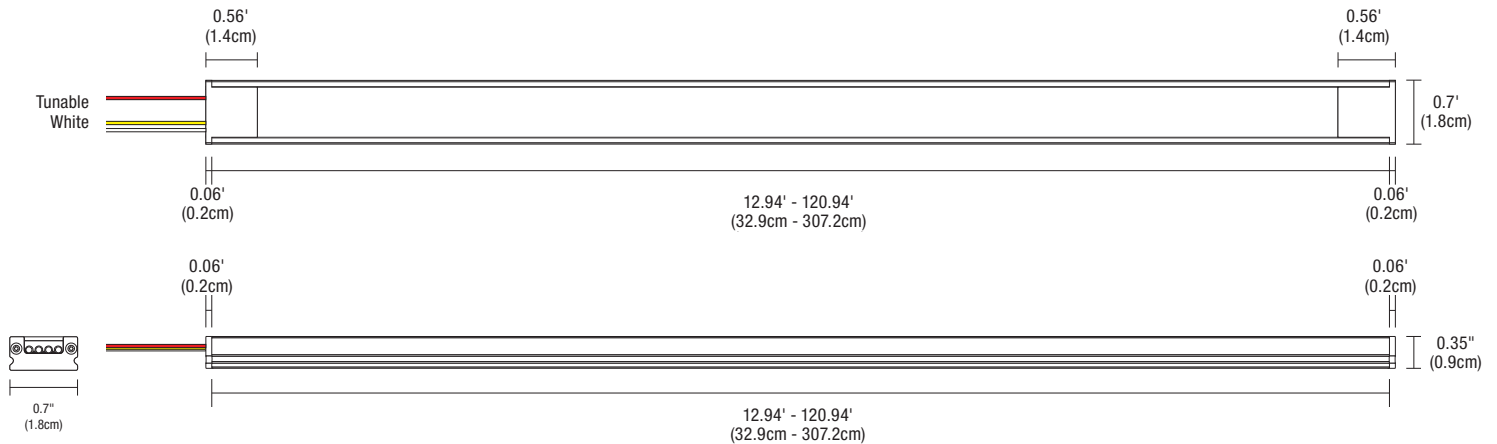## REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)
24VDC, Class 2 wiring
Tunable White
- Wiz Pro Connected, Smart Power Supplies & Controls
- **0-10V**: Requires two dimmers, one for intensity and one for color temperature
- **DMX Dynamic Color Changing**: Must be used with PureEdge Controllers
*In-Wall Mounting and drop ceiling Kits available for select power supplies

Product	Wattage	Type	Nominal Size	Lens & Color Temperature		Finish
LCS.3	**5W**	**SE2**	**60**	**D**	**2K6K**	**SA**
LCS.3 Light Channel .3 Surface Mount	5W 4.4 watts	SE1 One 6' wire lead at end fixture SE2 Two 6' wire leads at both ends of fixture	12-120 Order in 12" increments up to 120" May be ordered in 3, 5, 8 or 10" increments	D Diffused Lens C Clear Lens G Diffused Lens with Gel Color (Provided by Customer)	2K6K Tunable White 2000K-6500K	SA Satin Aluminum XX Custom Finish

PROJECT		FIXTURE TYPE		DATE	

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24VDC 5W, LAZER STRIP COB™ TUNABLE WHITE

PURE EDGE LIGHTING

REV 04.12.22

Tunable White

0.56' (1.4cm)
0.56' (1.4cm)
0.7' (1.8cm)
0.06' (0.2cm)
12.94' - 120.94' (32.9cm - 307.2cm)
0.06' (0.2cm)

0.06' (0.2cm)
0.06' (0.2cm)
0.35" (0.9cm)
0.7" (1.8cm)
12.94' - 120.94' (32.9cm - 307.2cm)

Lamp Life Is 50,000 Hours

TUNABLE WHITE 2K6K								
WATTS PER FOOT	5W (4.4 watts)							
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	139	201	213	225	245	255	265	320	356
LUMENS PER WATT (lm/w)	48	44	47	49	52	56	67	72	79
CRI	93+	92+	94+	93+	85+	85+	85+	85+	85+

Length Charts: Actual lengths for Light Channel .3 Surface Mount

Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)	Ordering Code (Nominal Size)	Illuminated Length (Inches)	Overall Length (Inches)
12	12.0	13.0	41	40.8	41.8	70	69.6	70.6	96	96.0	97.0
15	14.4	15.4	44	43.2	44.2	72	72.0	73.0	99	98.4	99.4
17	16.8	17.8	46	45.6	46.6	75	74.4	75.4	101	100.8	101.8
20	19.2	20.2	48	48.0	49.0	77	76.8	77.8	104	103.2	104.2
22	21.6	22.6	51	50.4	51.4	80	79.2	80.2	106	105.6	106.6
24	24.0	25.0	53	52.8	53.8	82	81.6	82.6	108	108.0	109.0
27	26.4	27.4	56	55.2	56.2	84	84.0	85.0	111	110.4	111.4
29	28.8	29.8	58	57.6	58.6	87	86.4	87.4	113	112.8	113.8
32	31.2	32.2	60	60.0	61.0	89	88.8	89.8	116	115.2	116.2
34	33.6	34.6	63	62.4	63.4	92	91.2	92.2	118	117.6	118.6
36	36.0	37.0	65	64.8	65.8	94	93.6	94.6	120	120.0	121.0
39	38.4	39.4	68	67.2	68.2						

FOOT CANDLE CHARTS

30K 5W DIFFUSED LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	201 FC
18in	21in	110 FC
24in	29in	70 FC
36in	42in	35 FC

30K 5W CLEAR LENS		
DISTANCE	**BEAM**	**FOOT CANDLE**
12in	15in	273 FC
18in	21in	145 FC
24in	29in	91 FC
36in	42in	44 FC

*Foot Candle Data is based off 4' Channel.

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LIGHT CHANNEL COMPLETE FIXTURE 0.3" LIGHT CHANNEL
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Accessories: Indoor Light Channel .3 Surface Mount, order based on lighting design or as replacement parts

LCS.6-MCL

LCS.6-MCL

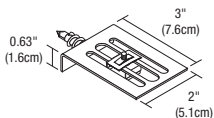0.37"
(0.9cm)

0.75"
(1.9cm)

0.6"
(1.5cm)

0.8"
(2cm)

0.8"
(2cm)

1.77"
(4.5cm)

LCS.6-MCL-075

0.63"
(1.6cm)

3"
(7.6cm)

2"
(5.1cm)

LCS.6-MCL-90
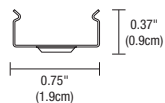
MOUNTING CLIPS
LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75 degrees. LC-MCL-90 mounts Light Channel at a 90 degree angle.
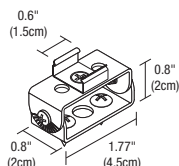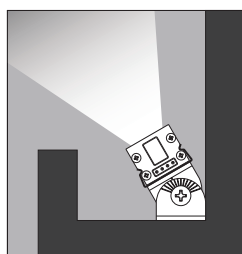
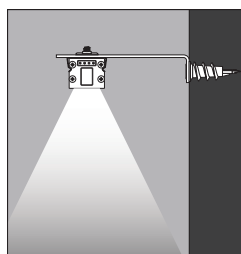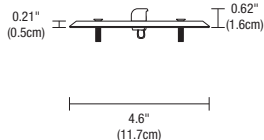| System	Product	Type
LCS.6	**MCL**	**STANDARD (LEAVE BLANK)**
LCS.6 Light Channel 0.6" Surface Mount	**MCL** Mounting Clip	**075** Adjusts 0-75° **90** Adjusts 90°
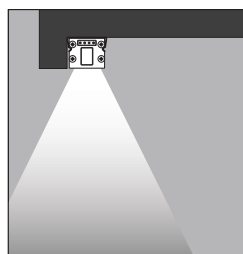
SHOWN WITH LCS.6-MCL

SHOWN WITH LCS.6-MCL-075

SHOWN WITH LCS.6-MCL-90

4RD-WH

0.52"
(1.3cm)

4.6"
(11.7cm)

0.21"
(0.5cm)
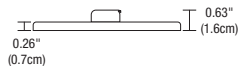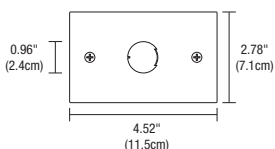
0.62"
(1.6cm)

4.6"
(11.7cm)
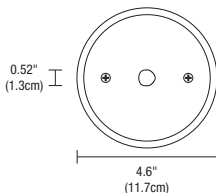
CANOPY COVER & SPLICE BOX
Use for remote located power supply. The 3" rectangle or 4" round white canopy covers the electrical box and feeds wires for Light Channel. The Splice Box provides a safe enclosure for low voltage connections.

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

3RE-WH

0.96"
(2.4cm)

2.78"
(7.1cm)

4.52"
(11.5cm)

0.26"
(0.7cm)

0.63"
(1.6cm)

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Included Components: Indoor Light Channel .3 Surface Mount system overview
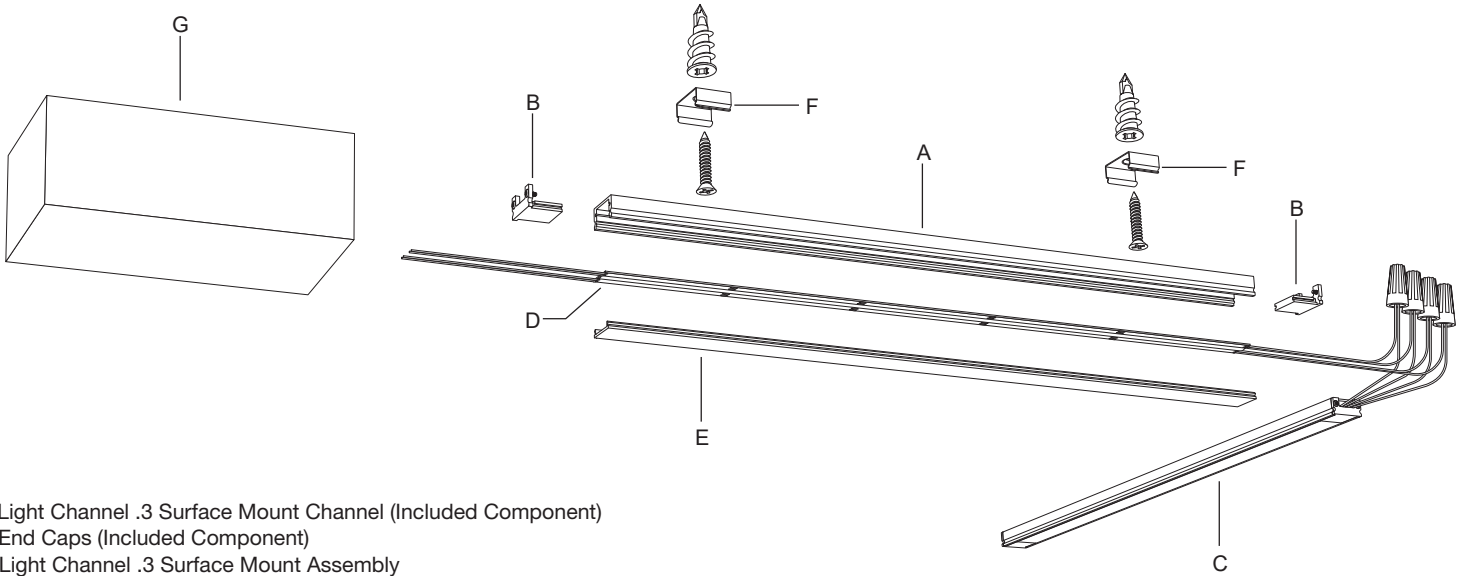
A) Light Channel .3 Surface Mount Channel (Included Component)
B) End Caps (Included Component)
C) Light Channel .3 Surface Mount Assembly
D) LED Lazer Strip with Soldered Leads for Tunable White (Included Component)
E) Lens (Included Component)
F) Mounting Clips (Included Component with every 2 feet of channel)
G) Remote Power Supply (Sold Separately)

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TM-30-15 DATA: The data below is for bare Lazer 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) | Rf: 84.3 | Rg: 96.9
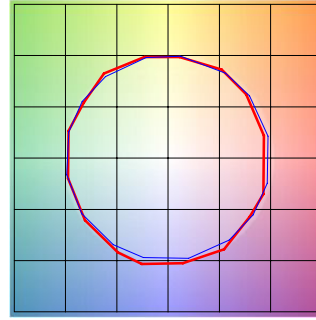Color Vector Graphic
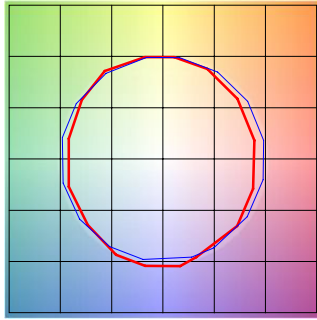
Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	80.3	-8.9%	1.7%
2	79.7	-7.0%	7.8%
3	78.9	-2.9%	10.0%
4	89.5	-0.5%	5.1%
5	94.4	0.7%	1.7%
6	92.1	2.4%	-0.3%
7	89.4	-2.4%	-5.9%
8	89.7	-6.4%	-0.2%
9	86.0	-4.9%	4.6%
10	81.8	-3.4%	9.3%
11	83.1	3.3%	9.7%
12	85.8	5.6%	3.3%
13	85.6	6.2%	-12.8%
14	61.7	-1.9%	-19.0%
15	79.7	-3.3%	-12.9%
16	78.1	-7.9%	-10.6%

3000K (2K6K) | Rf: 90.2 | Rg: 101.4
Color Vector Graphic

Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	90.9	-3.8%	1.3%
2	91.7	-1.9%	3.3%
3	88.7	0.7%	5.1%
4	92.4	-1.0%	0.7%
5	92.9	0.9%	1.7%
6	93.1	3.3%	-0.6%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	3.6%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	87.6	6.5%	-0.3%
13	89.3	3.6%	-6.3%
14	86.1	4.5%	-9.1%
15	91.6	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%

6500K ONLY (2K6K) | Rf: 89.6 | Rg: 99.1
Color Vector Graphic
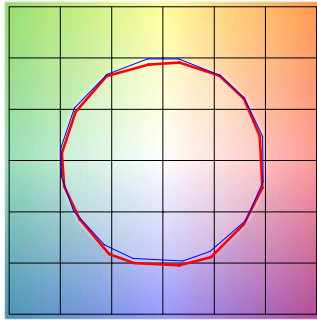
Test   Reference

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	91.3	-2.5%	1.0%
2	95.3	-0.5%	0.5%
3	94.3	-0.7%	1.1%
4	91.1	-3.4%	-1.1%
5	89.5	-5.6%	0.0%
6	94.6	-1.4%	1.3%
7	93.2	-3.0%	2.6%
8	91.3	-1.8%	4.6%
9	86.5	-0.9%	9.1%
10	83.3	-0.5%	9.5%
11	83.3	4.9%	9.0%
12	89.7	4.1%	1.7%
13	90.1	3.6%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	86.6	0.4%	-6.1%

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