# LIGHT CHANNEL 0.6 DIY SURFACE MOUNT
## 24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 02.11.20

**PURE EDGE**
LIGHTING




LCS.6 Light Channel Clear Lens


LCS.6 Light Channel Diffuser Lens


LCS.6 Light Channel Diffuser Lens with White Louver

## FEATURES & BENEFITS
- Cut and assemble in field
- Snap & Light Solderless Connections reduce labor during installation
- 24VDC LED Soft Strip offers excellent color-rendering
- 5oz of copper provides better heat dissipation, less voltage drop.
- Surface mount channel is sold in 2, 4, 5, 8, and 10 foot increments
- Warm Dim/Dim-To-Warm: (30D) dims from 3000K to 2000K, (27D) dims from 2700K to 2000K. 5 watt only.
- Dynamic Tunable White: 2000K to 4000K Variable White Dynamic Tunable Lighting. Human Centric Lighting
- Static White Options: 2.5W I 5W I 7.5W options. Color temperatures ranging from 2000K to 5700K.
- Dynamic Color: RGB 5W only.
- Static Color: Amber (AAA), Green (GGG), Blue (BBB), RED (RRR)
- Diffuser Lens (D) projects Dot-Free clean line of LED light through a glare-free defused lens.
- Clear Lens (C) provides maximum illumination use a transparent clear lens. LED's WILL SHOW.
- Gel Diffused Lens (G) provided by the customer please visit www.leefilters.com for more information.
- 5 year prorated warranty included

## APPLICATIONS
- Provides maximum light levels for task and general illumination
- Indoor only - Under/above cabinet, cove, and retail
- DIY Systems are engineered for the weekend warrior or the master electrician

## REQUIRED COMPONENTS
- Light Channel .6 Surface Mount and Lens (Mounting Clips included)
- End Caps (sold in pairs)
- 24VDC Light Channel Solderless Snap & Light Power/Jumper Connector
- 24VDC LED Soft Strip

## REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (SOLD SEPARATELY)
- Universal Power Supplies (Triac, ELV, 0-10V), Title 24
- Electronic Low Voltage Dimming (ELV)
- 0-10 Volt Dimming (0-10V), Title 24
- Dynamic Color Changing (DMX), Title 24
- Lutron Hi-Lume®, Title 24
- Class 2 wiring up to 100 watts. No need for conduit pipe

*In-Wall Mounting Kits available for select power supplies.
Form Factor Power Supply fits within included J-Box: 50 Watt IC Rated PS-60L-ELV-24VDC ELV Power Supply.

## LIGHT CHANNEL .6 SURFACE MOUNT DIY SYSTEM OVERVIEW
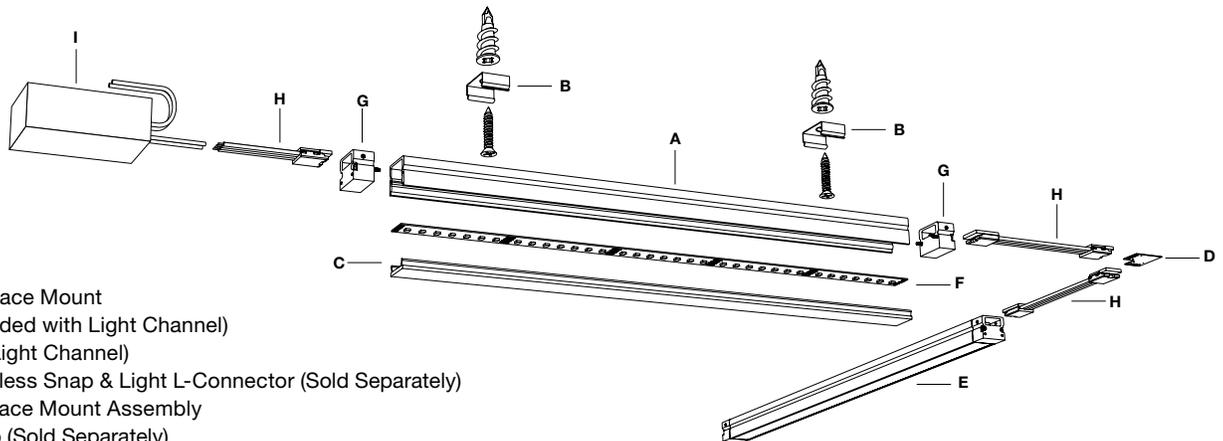


**A.** Light Channel .6 Surface Mount
**B.** Mounting Clips (Included with Light Channel)
**C.** Lens (Included with Light Channel)
**D.** Light Channel Solderless Snap & Light L-Connector (Sold Separately)
**E.** Light Channel .6 Surface Mount Assembly
**F.** 24VDC LED Soft Strip (Sold Separately)
**G.** End Caps (Sold Separately)
**H.** Light Channel Solderless Snap & Light Power (Sold Separately)
**I.** Remote Power Supply (PSB-60W-ELV-24VDC shown)

| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|---|--------------|---|------|---|

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**PURE EDGE**
LIGHTING

REV 02.11.20

**REQUIRED COMPONENTS:** SELECT LIGHT CHANNEL .6 SURFACE MOUNT OPTION, END CAPS AND POWER CONNECTOR BASED ON LIGHTING DESIGN.
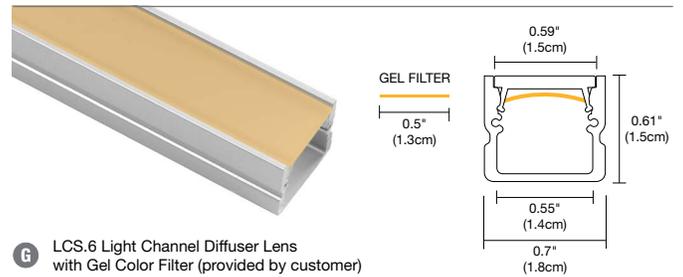
## LIGHT CHANNEL SURFACE MOUNT AND POWER CONNECTOR

Start the ordering process by selecting the desired channel length and lens option. THEN ORDER THE LED SOFT STRIP, END CAPS, POWER FEED JOINER, AND JUMPER. At 0.61 inches tall, the light channel is low profile aluminum extrusion that fits a 24VDC LED Soft Strip inside. The Light Channel, Lens and LED Soft Strip are all field cuttable to size, and joined together using the Light Channel Snap & Light Solderless Jumper/Power Connector for longer runs. Sold in 2FT, 4FT, 5FT, 8FT, 10FT channel length options.

## LENS OPTIONS

Clear Lens **(C)** provides maximum light levels and will show LED dots. **(CW)** Clear Lens with White Louver and **(CB)** Clear Lens with Black Louver will diffuse and soften lumen levels. LED dotting will still be visible even with Louvers. Diffuser Lens **(D)** projects a clean line of light, Eliminating LED Dots. **(DW)** Diffuser Lens with White Louver and **(DB)** Diffuser Lens with Black Louver will diffuse and soften the lumen levels. Both the Clear Lens **(C)** and Diffuser Lens **(D)** *ARE GEL COLOR* **(G)** Filter Suitable allowing for color personalization. We recommend using Zircon LED Gel filters, purchased from the dealer at www.leefilters.com. Gel filter life is 5,000 hours before needing to be changed.

**C**  LCS.6 Light Channel Clear Lens

0.59" (1.5cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

**D**  LCS.6 Light Channel Diffuser Lens

0.59" (1.5cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

GEL FILTER
0.59" (1.5cm)
0.5" (1.3cm)
0.61" (1.5cm)
0.55" (1.4cm)
0.7" (1.8cm)

**G**  LCS.6 Light Channel Diffuser Lens with Gel Color Filter (provided by customer)

| System | Length in Feet | Lens | Finish |
|---|---|---|---|
| **LCS.6** | **10FT** | **D** | **SA** |
| LCS.6 Light Channel 0.6" Surface Mount | 2FT 2 Feet<br>4FT 4 Feet<br>5FT 5 Feet<br>8FT* 8 Feet<br>10FT* 10 Feet<br><br>*ships By Truck (LTL) | D Diffuser Opaque Lens<br>C Clear Lens<br>F Clear Lens Full Frost<br>HF Clear Lens Half Frost<br>DW Diffused Lens with White Louver<br>DB Diffused Lens with Black Louver<br>CW Clear Lens with White Louver<br>CB Clear Lens with Black Louver | 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.
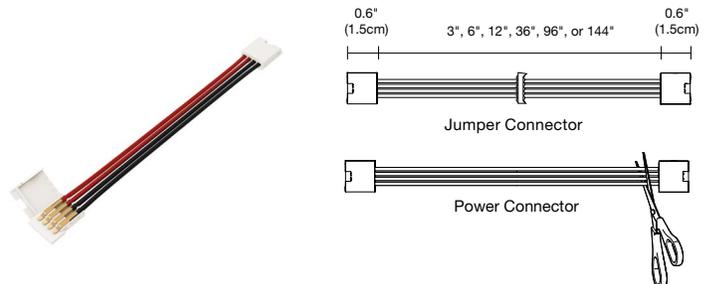
| System | Product | Type | Finish |
|---|---|---|---|
| **LCS.6** | **SLC** | **CA** | **SA** |
| LCS.6 Light Channel 0.6" Surface Mount | SLC Snap and Light Connector | CA End Caps | SA Satin Aluminum |

Front View
0.61" (1.5cm)
0.7" (1.8cm)

Side View
0.61" (1.5cm)
0.43" (1.1cm)
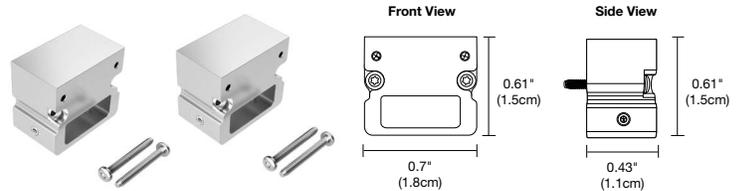
## 24VDC LIGHT CHANNEL SOLDERLESS SNAP & LIGHT JUMPER/POWER CONNECTOR

Use as a power connector is required, and use as a jumper connector is optional. Join 2 cut sections of LED Soft Strip end to end within the channel. Solderless connections provide easy installation and are compatible with Solderless Light Channel Connector accessories. To use as a power connector cut and strip the wires.

| System | Product | Length |
|---|---|---|
| **LC** | **SLC** | **3IN** |
| LC Light Channel | SLC Solderless Snap & Light Jumper/Power Connector | 3IN 3 Inches<br>6IN 6 Inches<br>12IN 12 Inches<br>36IN 36 Inches<br>96IN 96 Inches<br>144IN 144 Inches |

0.6" (1.5cm)   3", 6", 12", 36", 96", or 144"   0.6" (1.5cm)

Jumper Connector

Power Connector

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# LIGHT CHANNEL 0.6 DIY SURFACE MOUNT
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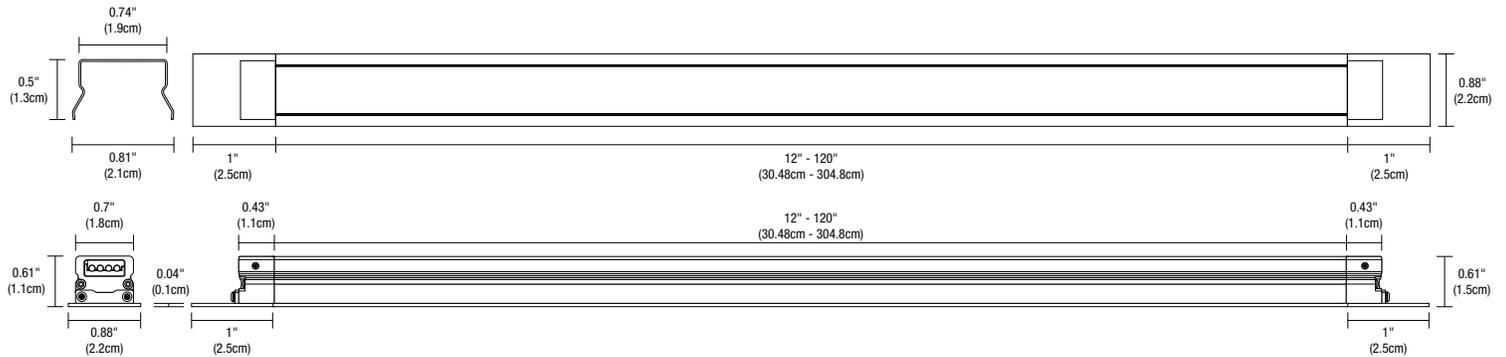


**INCLUDED COMPONENTS** Lens Options and Lamp Data for indoor Light Channel 0.6" Surface Mount



**LCS.6 LIGHT CHANNEL
61° DIFFUSER LENS**
White Diffuser Lens projects clean lines of light, eliminating LED dots

**LCS.6 LIGHT CHANNEL
26° CLEAR LENS**
Clear Lens provides maximum light levels and will show slight LED dots

**LCS.6 LIGHT CHANNEL
DIFFUSE WHITE LENS WITH WHITE LOUVER**

**LCS.6 LIGHT CHANNEL
DIFFUSER LENS WITH BLACK LOUVER**

**LCS.6 LIGHT CHANNEL
CLEAR LENS WITH WHITE LOUVER**

**LCS.6 LIGHT CHANNEL
CLEAR LENS WITH BLACK LOUVER**

**LCS.6 LIGHT CHANNEL
DIFFUSER 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

Lamp Life is 50,000 hours

| LCS.6 LIGHT CHANNEL SURFACE MOUNT | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WATTS PER FOOT** | 2w (2.5 watts) | | | | | | | 5w (4.4 watts) | | | | | | | | | 7.5w (4.4 watts) | | | | | | |
| **COLOR TEMPERATURE** | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 22K | 24K | 27K | 27D* | 30K | 27D* | 35K | 40K | 57K | 22K | 24K | 27K | 30K | 35K | 40K | 57K |
| **CLEAR LENS LUMENS PER FOOT LM/FT** | 129 | 144 | 158 | 173 | 196 | 215 | 229 | 208 | 231 | 254 | 372 | 277 | 406 | 317 | 345 | 367 | 300 | 333 | 367 | 400 | 459 | 499 | 531 |
| **CLEAR LENS LUMENS PER WATT LM/W** | 53 | 57 | 63 | 69 | 79 | 86 | 91 | 47 | 53 | 58 | 78 | 63 | 85 | 72 | 78 | 84 | 40 | 45 | 49 | 53 | 61 | 67 | 71 |
| **DIFFUSER LENS LUMENS PER FOOT LM/FT** | 111 | 123 | 135 | 148 | 169 | 184 | 196 | 175 | 194 | 213 | 320 | 233 | 350 | 267 | 290 | 309 | 242 | 269 | 295 | 322 | 369 | 402 | 427 |
| **DIFFUSER LENS LUMENS PER WATT LM/W** | 44 | 49 | 54 | 59 | 68 | 74 | 78 | 40 | 44 | 49 | 67 | 53 | 73 | 61 | 66 | 70 | 32 | 36 | 39 | 43 | 49 | 55 | 57 |
| **RF** | 84 | 86 | 88 | 88 | 86 | 88 | 80 | 84 | 86 | 88 | 90 | 88 | 101 | 86 | 88 | 80 | 84 | 86 | 88 | 88 | 86 | 88 | 80 |
| **RG** | 95 | 96 | 96 | 100 | 96 | 97 | 92 | 95 | 96 | 96 | 101 | 100 | 101 | 96 | 97 | 92 | 95 | 96 | 96 | 100 | 96 | 97 | 92 |
| **CRI** | 85+ | 90+ | 95+ | 95+ | 85+ | 84 | 84 | 85+ | 90+ | 95+ | 95+ | 95+ | 95+ | 85+ | 84 | 84 | 85+ | 90+ | 95+ | 95+ | 85+ | 84 | 84 |

## FOOT CANDLE CHARTS

| 30K 60° 5W DIFFUSER LENS | | |
|---|---|---|
| **DISTANCE** | **BEAM** | **FOOT CANDLE** |
| 12in | 15in | 201 FC |
| 18in | 21in | 110 FC |
| 24in | 29in | 70 FC |
| 36in | 42in | 35 FC |

| 30K 60° 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.

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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**PURE EDGE**
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**ACCESSORIES:** ORDER BASED ON LIGHTING DESIGN OR AS REPLACEMENT PARTS.
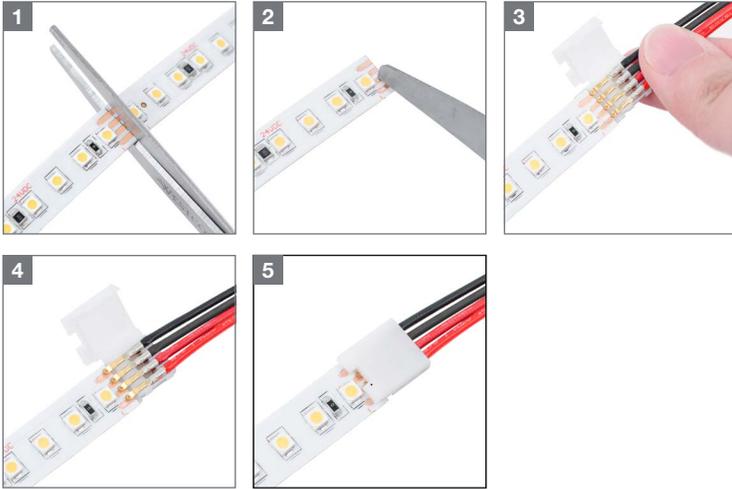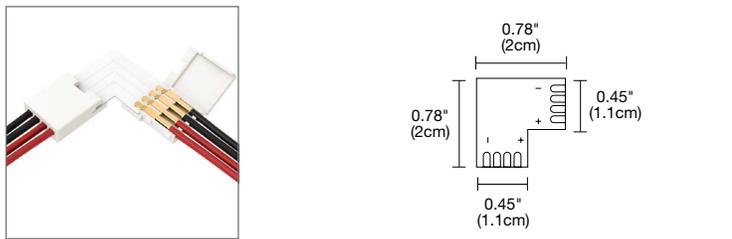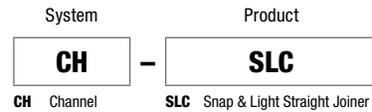


### LIGHT CHANNEL SOLDERLESS SNAP & LIGHT CONNECTORS:
Allow easy cutting and rejoining of the LED Soft Strip at any point within a Light Channel. Light Channel Solderless Snap & Light Connectors provide a tightly sealed connection, reducing labor during installation. The gold plated connections provide better connectivity without oxidation.

1. Cut in the middle of the joining contacts

2. Remove the protective coating from the contacts

3. Place the LED Soft Strip end under the plastic guide and push it under the snap contacts

4. Close the cover

5. Snap the cover to secure in place

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### SOFT STRIP SOLDERLESS SNAP & LIGHT STRAIGHT JOINER
Joins 2 sections of LED Soft Strip in the channel. Used when replacing a section of LED Soft Strip.



| System | | Product | |
|---|---|---|---|
| **CH** | – | **SLC** | |
| CH Channel | | SLC Snap & Light Straight Joiner | |

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### LIGHT CHANNEL SOLDERLESS SNAP & LIGHT L-CONNECTOR
Conducts power to 2 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.



| System | | Product | |
|---|---|---|---|
| **LC** | – | **SLL** | |
| LC Light Channel | | SLL Snap & Light L-Connector | |

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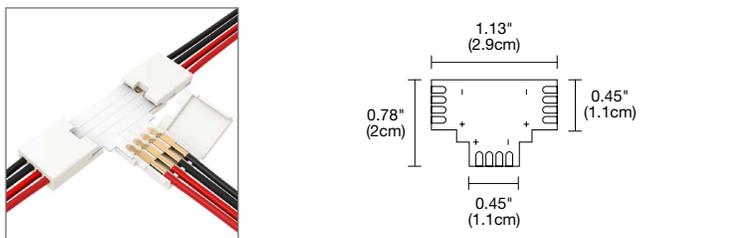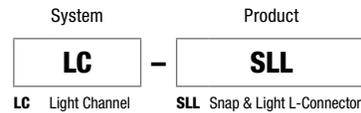
### LIGHT CHANNEL SOLDERLESS SNAP & LIGHT T-CONNECTOR
Conducts power to 3 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.



| System | | Product | |
|---|---|---|---|
| **LC** | – | **SLT** | |
| LC Light Channel | | SLT Snap & Light T-Connector | |

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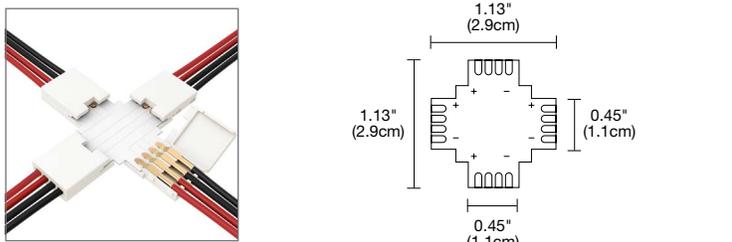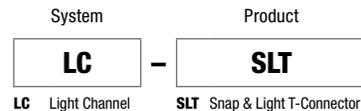
### LIGHT CHANNEL SOLDERLESS SNAP & LIGHT X-CONNECTOR
Conducts power to 4 sections of LED Soft Strip within the Light Channel. Requires Light Channel Solderless Snap & Light Power/Jumper Connector (sold separately) for use.



| System | | Product | |
|---|---|---|---|
| **LC** | – | **SLX** | |
| LC Light Channel | | SLX Snap & Light X-Connector | |

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| PROJECT | | FIXTURE TYPE | | DATE | |
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LIGHTING

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

LCS.6-MCL

LCS.6-MCL
0.37" (0.9cm)
0.75" (1.9cm)

LCS.6-MCL-075

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

SHOWN WITH LCS.6-MCL

SHOWN WITH LCS.6-MCL-075

SHOWN WITH LCS.6-MCL-90
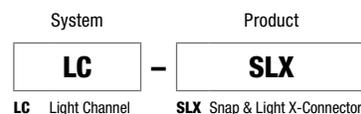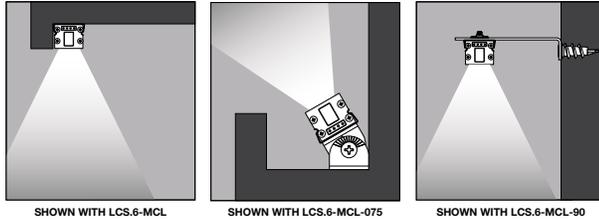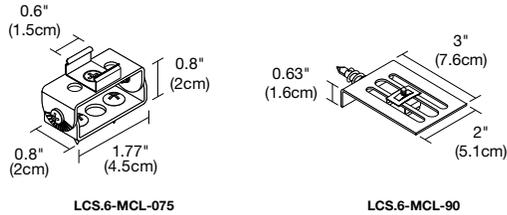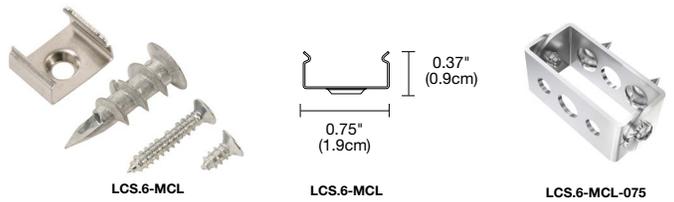
### MOUNTING CLIPS
LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75 degrees. LC-MCL-90 mounts Light Channel at a 90 degree angle.

| System | | Product | | Type |
|---|---|---|---|---|
| **LCS.6** | – | **MCL** | – | Standard (Leave Blank) |

| | | | | |
|---|---|---|---|---|
| **LCS.6** Light Channel 0.6" Surface Mount | | **MCL** Mounting Clip | | **075** Adjusts 0-75°<br>**90** Mounts at 90° |

4RD-WH
0.52" (1.3cm)
4.6" (11.7cm)
0.21" (0.5cm)
0.62" (1.6cm)
4.6" (11.7cm)

3RE-WH
0.96" (2.4cm)
2.78" (7.1cm)
4.52" (11.5cm)
0.26" (0.7cm)
0.63" (1.6cm)

1RB-WH
1.27" (3.2cm)
2.5" (6.4cm)
1.27" (3.2cm)
1.32" (3.4cm)

### 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 Inch Rectangle Canopy Cover<br>**4RD** 4 Inch Round Canopy Cover<br>**1RB** 1 Inch Rectangle Splice Box | | **WH** White |

**WIRING DIAGRAM:** Electronic Low Voltage (ELV) dimming for Light Channel .6 Micro Grazer.

**POWER SUPPLY:** 120VAC input, 24VDC 96 watt output PSB-100W-ELV-24VDC

**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.

B. 100W 24VDC POWER SUPPLY
100 WATT 24V CLASS 2

F. DIY LIGHT CHANNEL
.6 SURFACE MOUNT

WHITE (NEU)

120VAC INPUT

GND

BLACK (HOT)

BLACK (HOT)

24VDC

C

F

F

A. ELV DIMMER

D. 3" RECTANGLE CANOPY COVER

24VDC

F

F

C

C. 24VDC LIGHT CHANNEL SOLDERLESS SNAP & LIGHT POWER/JUMPER CONNECTOR

F

E. LIGHT CHANNEL SOLDERLESS SNAP
& LIGHT T CONNECTOR (LC-SLT)

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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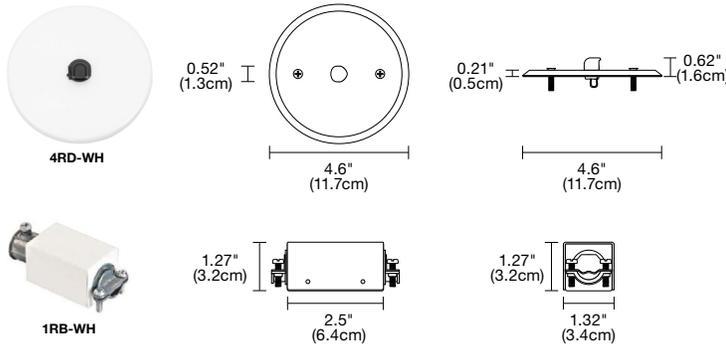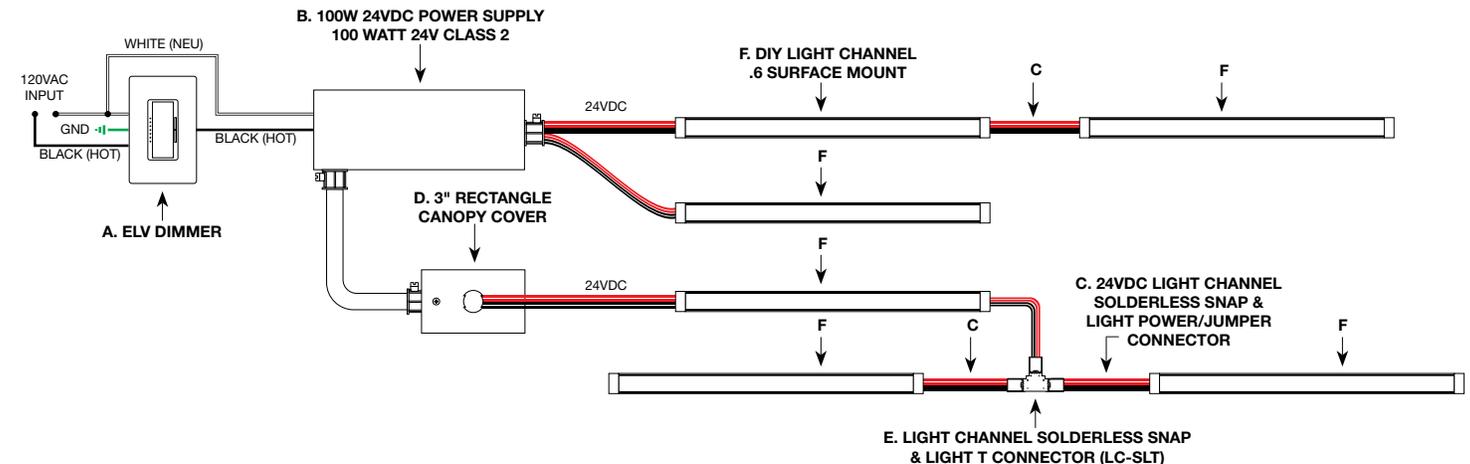24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

REV 02.11.20

**REQUIRED COMPONENTS:** Use the comparison chart below to select the desired 24VDC LED Soft Strip to install within Light Channel .6 Surface Mount.

| ORDERING CODE | SS2P | SS4P | SS2C | SS5C | SS7C | SS5C |
|---|---|---|---|---|---|---|
| **COLOR TYPE** | Static White | Static White | Static White | Static White | Static White | Warm Dim |
| **GRADE** | Premium Economy | Premium Economy | Commercial | Commercial | Commercial | Commercial |
| **WATTAGE PER FOOT*** | 2.3w | 3.5w | 2.5w | 4.4w | 7.3w | 4.8w |
| **AVAILABLE COLOR TEMPERATURES & CRI** | 2700K - 84<br>3000K - 85 | 2700K - 84<br>3000K - 85 | 20K - 85+<br>22K - 85+<br>24K - 90+<br>27K - 95+<br>30K - 95+<br>35K - 90+<br>40K - 85+<br>57K - 85+ | 20K - 85+<br>22K - 85+<br>24K - 90+<br>27K - 95+<br>30K - 95+<br>35K - 90+<br>40K - 85+<br>57K - 85+ | 20K - 85+<br>22K - 85+<br>24K - 90+<br>27K - 95+<br>30K - 95+<br>35K - 90+<br>40K - 85+<br>57K - 85+ | 27D - 2700K<br>Warm Dim to 2000K 95+<br><br>30D - 3000K<br>Warm Dim to 2000K 95+ |
| **CLEAR LENS LUMENS PER FOOT** lm/ft | 27K - 89<br><br>30K - 97 | 27K - 148<br><br>30K - 161 | 22K - 121<br>27K - 148<br>30K - 162<br>35K - 185<br>40K - 201<br>57K - 214 | 22K - 199<br>27K - 243<br>30K - 265<br>35K - 304<br>40K - 330<br>57K - 352 | 22K - 300<br>27K - 367<br>30K - 401<br>35K - 459<br>40K - 499<br>57K - 531 | 27D - 294<br><br>30D - 321 |
| **CLEAR LENS LUMENS PER WATT** lm/w | 27K - 47<br><br>30K - 51 | 27K - 42<br><br>30K - 46 | 22K - 49<br>27K - 59<br>30K - 65<br>35K - 74<br>40K - 80<br>57K - 86 | 22K - 45<br>27K - 55<br>30K - 60<br>35K - 69<br>40K - 75<br>57K - 80 | 22K - 40<br>27K - 49<br>30K - 53<br>35K - 61<br>40K - 67<br>57K - 71 | 27D - 61<br><br>30D - 67 |
| **DIFFUSER LENS LUMENS PER FOOT** lm/ft | 27K - 70<br><br>30K - 77 | 27K - 118<br><br>30K - 128 | 22K - 90<br>27K - 110<br>30K - 120<br>35K - 137<br>40K - 149<br>57K - 159 | 22K - 149<br>27K - 181<br>30K - 198<br>35K - 227<br>40K - 247<br>57K - 262 | 22K - 242<br>27K - 295<br>30K - 323<br>35K - 369<br>40K - 402<br>57K - 427 | 27D - 219<br><br>30D - 240 |
| **DIFFUSER LENS LUMENS PER WATT** lm/w | 27K - 37<br><br>30K - 40 | 27K - 33<br><br>30K - 37 | 22K - 36<br>27K - 44<br>30K - 48<br>35K - 55<br>40K - 60<br>57K - 64 | 22K - 34<br>27K - 41<br>30K - 45<br>35K - 52<br>40K - 56<br>57K - 60 | 22K - 32<br>27K - 39<br>30K - 43<br>35K - 49<br>40K - 54<br>57K - 57 | 27D - 46<br><br>30D - 50 |
| **NUMBER OF LEDS PER FOOT** | 35 | 35 | 35 | 35 | 35 | 35 + 35 = 70 |
| **CUTTING INCREMENTS** | 2.4" | 2.4" | 2.4" | 2.4" | 2.4" | 3" |
| **MAXIMUM LENGTH 100 WATT, POWER SUPPLY** | 40 FT | 25 FT | 40 FT | 20 FT | 12 FT | 20 FT |
| **LED DISTANCE** | 0.34" | 0.34" | 0.34" | 0.34" | 0.34" | 0.22" |
| **DIMMING TYPE** | Universal (ELV, 0-10V and TRIAC), ELV, 0-10V | Universal (ELV, 0-10V and TRIAC), ELV, 0-10V | Universal (ELV, 0-10V and TRIAC), ELV, 0-10V | Universal (ELV, 0-10V and TRIAC), ELV, 0-10V | Universal (ELV, 0-10V and TRIAC), ELV, 0-10V | ELV |
| **LAMP LIFE (HOURS)** | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |

## FOOT CANDLE CHARTS

| 30K 65° 6.5W DIFFUSER LENS | | |
|---|---|---|
| DISTANCE | BEAM | FOOT CANDLE |
| 12in | 15in | 107 FC |
| 18in | 21in | 67 FC |
| 24in | 29in | 47 FC |
| 36in | 42in | 26 FC |

| 30K 52° 5W CLEAR LENS | | |
|---|---|---|
| DISTANCE | BEAM | FOOT CANDLE |
| 12in | 12in | 194 FC |
| 18in | 17in | 117 FC |
| 24in | 22in | 82 FC |
| 36in | 27in | 46 FC |

*Foot Candle Data is based off 4 feet channel.

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# LIGHT CHANNEL 0.6 DIY SURFACE MOUNT
## 24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

**PURE EDGE LIGHTING**

REV 02.11.20

**REQUIRED COMPONENTS:** Select 24VDC LED Soft Strip based on desired color temperature and application.

To Solid State Power Supply

Snap & Light Solderless Connector

0.34" Tight LED Spacing

Gold Plated Contacts

White Finish

SS5C LED Soft Strip
2oz Copper
Insulator
2oz Copper
3M® Adhesive Tape

Tunable White (2K4K) Warm Dim (27D 30D)

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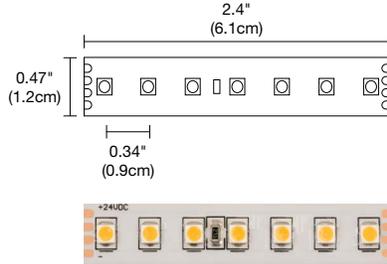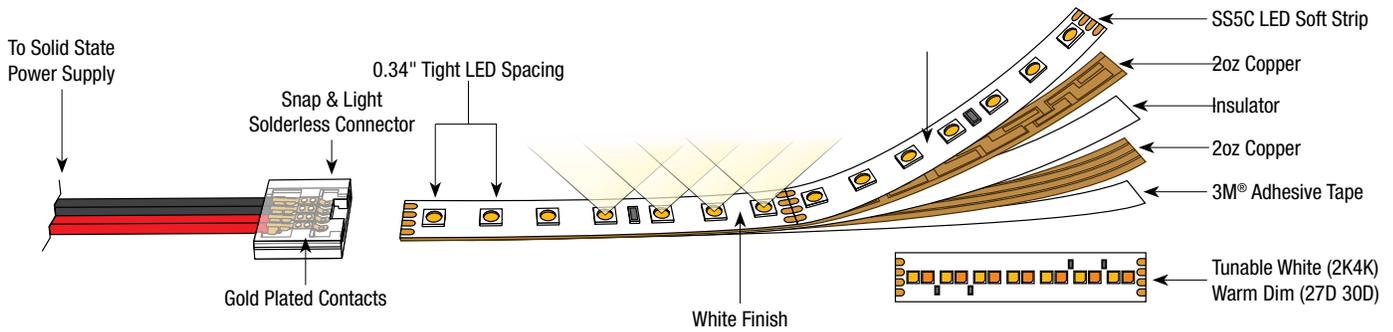
### ECONOMY PREMIUM STATIC WHITE SOFT STRIP
Consumes 2.3 watts per foot (SS2P) and 3.5 watts per foot (SS4P) is available in two color temperatures. SS2P and SS4P Soft Strip use UNI, ELV and 0-10V power supplies.
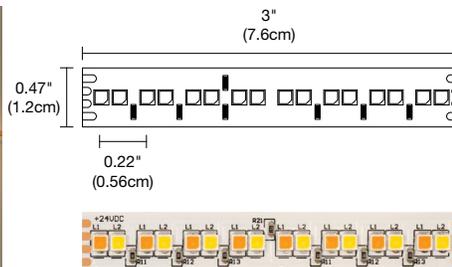
2.4" (6.1cm)
0.47" (1.2cm)
0.34" (0.9cm)
+24VDC

| System | Voltage | Length in Feet | Color Temperature |
|---|---|---|---|
| **SS2P** | **24V** | **8** | **27K** |

| | | | |
|---|---|---|---|
| **SS2P** LED Soft Strip Economy Premium 2.3 watts per foot | **24V** 24 Volt | **1-40** 1 - 40 feet (SS2P) | **27K** 2700K Incandescent White |
| **SS4P** LED Soft Strip Economy Premium 3.5 watts per foot | | **1-25** 1 - 25 feet (SS4P) | **30K** 3000K Warm White |

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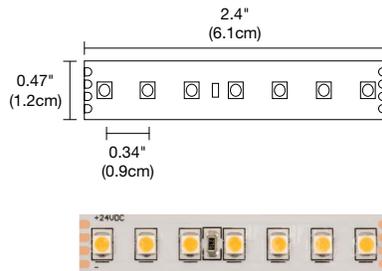
### COMMERCIAL STATIC WHITE SOFT STRIP
Consumes 2.5 watts per foot (SS2C), 4.4 watts per foot (SS5C), and 7.3 watts per foot (SS7C) and is available in a variety of color temperatures. SS2C, SS5C, and SS7C Soft Strips use UNI, ELV and 0-10V power supplies.

2.4" (6.1cm)
0.47" (1.2cm)
0.34" (0.9cm)
+24VDC

| System | Voltage | Length in Feet | Color Temperature |
|---|---|---|---|
| **SS2C** | **24V** | **40** | **27K** |

| | | | |
|---|---|---|---|
| **SS2C** LED Soft Strip Commercial 2.5 watts per foot | **24V** 24 Volt | **1-40** 1 - 40 feet (SS2C) | **20K** 2000K Sunset |
| **SS5C** LED Soft Strip Commercial 4.4 watts per foot | | **1-20** 1 - 20 feet (SS5C) | **22K** 2200K Amber White |
| **SS7C** LED Soft Strip Commercial 7.3 watts per foot | | **1-12** 1 - 12 feet (SS7C) | **24K** 2400K Very Warm White |
| | | | **27K** 2700K Incandescent White |
| | | | **30K** 3000K Warm White |
| | | | **35K** 3500K Neutral White |
| | | | **40K** 4000K Cool White |
| | | | **57K** 5700K Daylight White |

---

### WARM DIM DIM-TO-WARM
**(30D)** dims from 3000K to 2000K, **(27D)** dims from 2700K to 2000K. 4.8 Watt Only. Use ELV Power Supply.

3" (7.6cm)
0.47" (1.2cm)
0.22" (0.56cm)
+24VDC

| System | Voltage | Length in Feet | Color Temperature |
|---|---|---|---|
| **SS5C** | **24V** | **20** | **27D** |

| | | | |
|---|---|---|---|
| **SS5C** LED Soft Strip Commercial 4.8 watts per foot | **24V** 24 Volt | **1-20** 1 - 20 feet | **27D** 2700K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only |
| | | | **30D** 3000K Warm Dim to 2000K (DIM-TO-WARM) 5 Watt Only |

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| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# LIGHT CHANNEL 0.6 DIY SURFACE MOUNT
24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

**PURE | EDGE**
LIGHTING

REV 02.11.20

**REQUIRED COMPONENTS:** Select 24VDC LED Soft Strip based on desired color temperature and application.



2.4"
(6.1cm)

0.47"
(1.2cm)

0.22"
(0.56cm)
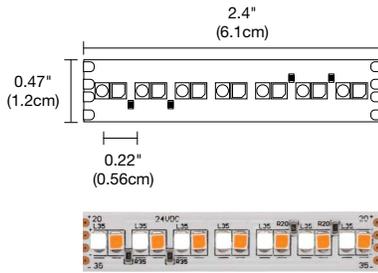
### DYNAMIC/TUNABLE WHITE (2K4K)

Consumes 4.8 watts per foot and provides variable color temperatures ranging from candlelight (2000K) to cool white (4000K) at full brightness or dim to 1%. SS5C Soft Strip Tunable White uses Universal Power Supplies, ELV, 0-10V, and DMX power supplies.

| System | | Voltage | | Length in Feet | | Color Temperature |
|---|---|---|---|---|---|---|
| **SS5C** | – | **24V** | – | **20** | – | **2K4K** |
| **SS5C** LED Soft Strip Commercial 4.8 watts per foot | | **24V** 24 Volt | | **1-20** 1 - 20 feet | | **2K4K** Tunable White 2000K-4000K |



2.4"
(6.1cm)

0.47"
(1.2cm)

0.40"
(1cm)
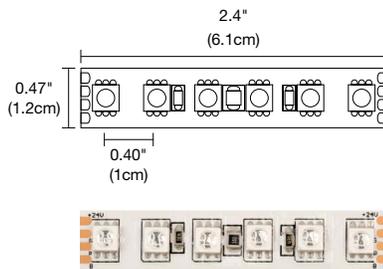
### DYNAMIC COLOR CHANGING RGB

Dynamic Color Changing RGB Soft Strip consumes 5 watts per linear foot. RGB provides dynamic color changing effects with RED/GREEN/BLUE LEDs. SS5 RGB Soft Strip uses DMX power supplies.

| System | | Voltage | | Length in Feet | | Color Temperature |
|---|---|---|---|---|---|---|
| **SS5** | – | **24V** | – | **20** | – | **RGB** |
| **SS5** LED Soft Strip Special Application 5 watts per foot | | **24V** 24 Volt | | **1-20** 1 - 20 feet | | **RGB** Red/Green/Blue Dynamic Color RGB |



2.4"
(6.1cm)

0.47"
(1.2cm)

0.34"
(0.9cm)
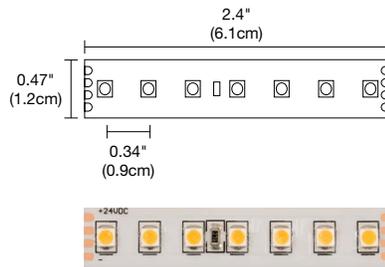
### MONOCHROMATIC STATIC COLOR

Monochromatic Static Color offers a variety of color options for special applications or special lighting effects in which static colors are used. Consumes 4.8 Watts of power per linear foot. Powered using; UNI-POWER, 0-10V or ELV power supply options.

| System | | Voltage | | Length in Feet | | Color Temperature |
|---|---|---|---|---|---|---|
| **SS5** | – | **24V** | – | **36** | – | **AAA** |
| **SS5** LED Soft Strip Special Application 4.8 watts per foot | | **24V** 24 Volt | | **1-36** 1 - 36 feet | | **RRR** Red Static Color Monochromatic<br>**GGG** Green Static Color Monochromatic<br>**BBB** Blue Static Color Monochromatic<br>**AAA** Amber Static Color Monochromatic<br>**PPP** Purple Static Color Monochromatic |

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

**PURE EDGE LIGHTING**

REV 02.11.20

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS | | | | |
|---|---|---|---|---|
| **ORDERING CODE** | **PSB-40W-UNI-24VDC** | **PSB-60W-UNI-24VDC** | **PSB-2X40W-UNI-24VDC** | **PSB-2X60W-UNI-24VDC** |
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 40W | 60W | 2X40W | 2X60W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 3.12" X 2.18" | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 12.15" X 6.48" X 2.18" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | PSB-40W-UNI-24VDC-IW | PSB-60W-UNI-24VDC-IW | PSB-2X40W-UNI-24VDC-IW | PSB-2X60W-UNI-24VDC-IW |

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS | | | | |
|---|---|---|---|---|
| **ORDERING CODE** | **PSB-96W-UNI-24VDC** | **PSB-2X96W-UNI-24VDC** | **PSB-3X96W-UNI-24VDC** | **PSB-4X96W-UNI-24VDC** |
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 96W | 2X96W | 3X96W | 4X96W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 13" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | PSB-96W-UNI-24VDC-IW | PSB-2X96W-UNI-24VDC-IW | NA | NA |
| **ELV DIMMING & CONTROLS** | | | | |
| LUTRON DIVA: DVELV-300P | • | • | • | • |
| LUTRON SKYLARK: SELV-300P | • | • | • | • |
| LUTRON RADIO RA2: RRD-6NA | • | • | • | • |
| LUTRON MAESTRO: MAELV-600 | • | • | • | • |
| LEGRAND ADORNE: ADTP-703TUM4 | • | • | • | • |
| **0-10 DIMMING & CONTROLS** | | | | |
| PHILIPS SUNRISE: SR1200ZTUNV | • | • | • | • |
| LUTRON DIVA: DVTV-WH, DVSTV-WH | • | • | • | • |
| LUTRON NOVA T: NTSTV-DV-XX | • | • | • | • |
| LUTRON GRAFIX EYE QS: QSGRJ-XP | • | • | • | • |
| LUTRON RADIO RA2: RRD-10ND | • | • | • | • |
| LEVITON: LEV40050 | • | • | • | • |
| LEVITON IP710-LFZ | • | • | • | • |
| LEGRAND: ADPD4FBL3P2W4 | • | • | • | • |
| **TRIAC DIMMING & CONTROLS** | | | | |
| LUTRON SKYLARK: S2-L-WH | • | • | • | • |
| LUTRON DIVA DVLV-600P-WH | • | • | • | • |
| LUTRON DIVA DVLV-603P-WH | • | • | • | • |
| LUTRON MAESTRO MALV-600-WH | • | • | • | • |
| LUTRON MAESTRO MALV-1000-WH | • | • | • | • |
| LUTRON MAESTRO MA-R-XX | • | • | • | • |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90
- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  – Triac Dimmer  : (Forward Phase)  Typically used for the dimming  of Incandescent and Low Voltage Magnetic Transformers
  – ELV  Dimmer  :  (Reverse Phase)  Dimming of Electronic Low Voltage Transformers and Power Supply's used for LED lighting
  – 0-10  Dimmer :  Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|
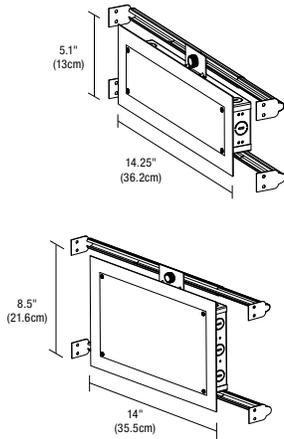
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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

**PURE | EDGE**
LIGHTING

## IN WALL MOUNTING OPTIONS

5.1"
(13cm)

14.25"
(36.2cm)

8.5"
(21.6cm)

14"
(35.5cm)

**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
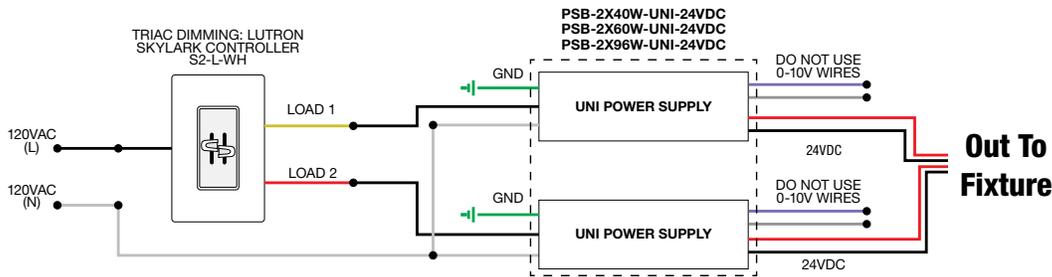
**Ordering Codes 5.1 x 14.25 inch:**  PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

**Ordering Codes 8.5 x 14.25 inch:**  PSB-2X40W-UNI-24VDC-IW
PSB-2X60W-UNI-24VDC-IW
PSB-2X96W-UNI-24VDC-IW
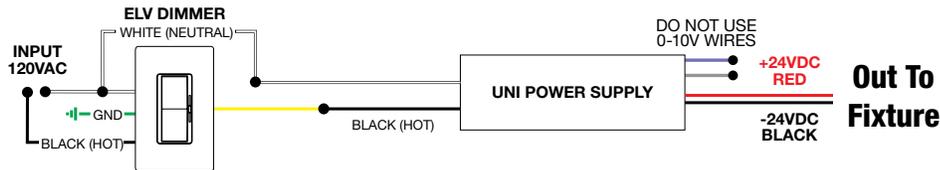
## WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

**Application:**  Triac dimming for two power supplies, use for Static White, Dynamic/Tunable White 2000K-4000K

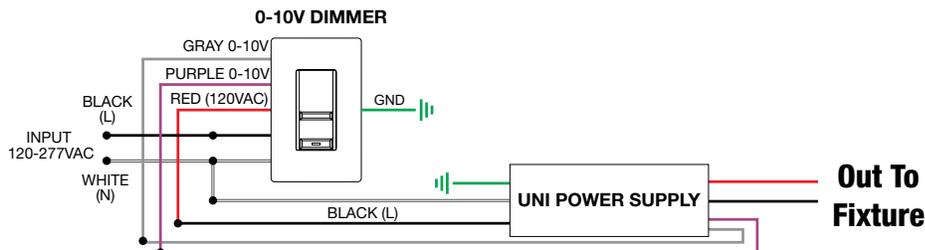**Dimming:**  Dimmable with Triac dimmer: Lutron: Skylark S2-L

TRIAC DIMMING: LUTRON
SKYLARK CONTROLLER
S2-L-WH

PSB-2X40W-UNI-24VDC
PSB-2X60W-UNI-24VDC
PSB-2X96W-UNI-24VDC

GND

DO NOT USE
0-10V WIRES

UNI POWER SUPPLY

LOAD 1

120VAC
(L)

LOAD 2

24VDC

**Out To
Fixture**

GND

DO NOT USE
0-10V WIRES

120VAC
(N)

UNI POWER SUPPLY

24VDC

**Application:**  ELV dimming for Static White and Warm Dim

**Dimming:**  Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

**ELV DIMMER**
WHITE (NEUTRAL)

DO NOT USE
0-10V WIRES

**INPUT
120VAC**

+24VDC
RED

**Out To
Fixture**

GND

UNI POWER SUPPLY

BLACK (HOT)

BLACK (HOT)

-24VDC
BLACK

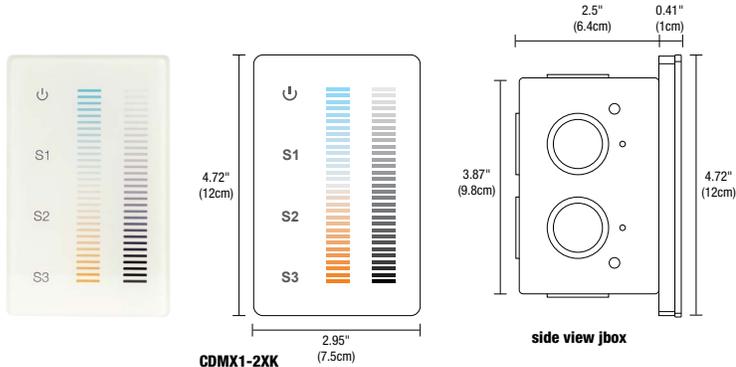**Application:**  0-10V dimming for Static White

**Dimming:**  Dimmable with 0-10V dimmer: Philips Sunrise: SR1200ZTUNV; Lutron Diva: DVTV-WH, DVSTV-WH; Lutron Nova T: NTSTV-DV-XX; Lutron Grafix EYE QS: QSGRJ-XP; Lutron Radio Ra2: RRD-10ND; Leviton: LEV40050; Leviton IP710-LFZ; Legrand: ADPD4FBL3P2W4

**0-10V DIMMER**

GRAY 0-10V

PURPLE 0-10V

BLACK
(L)

RED (120VAC)

GND

INPUT
120-277VAC

UNI POWER SUPPLY

**Out To
Fixture**

WHITE
(N)

BLACK (L)

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, DYNAMIC/TUNABLE WHITE POWER SUPPLIES WITH DMX DRIVER

PURE EDGE LIGHTING

REV. 02.11.20

2.5" (6.4cm)   0.41" (1cm)

4.72" (12cm)

3.87" (9.8cm)

4.72" (12cm)

2.95" (7.5cm)

side view jbox

**CDMX1-2XK**

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

DMX CABLE (BELDEN #9841)

3" (7.6cm)   1.14" (2.9cm)

1.57" (4cm)

controller power adapter

**PSB-100W-24VDC-2XK (Sold Separately)**

120V   N

GND

Power Supply

-24VDC   +24VDC

To Fixture

DRIVER

DMX data to next power/data supply

## Description:
The Tunable White Touch Controller is a full-touch controller that offers fast and accurate color temperature adjustment and independent brightness dimming of a single zone. Designed for dynamic/tunable white and dual-color LED installations, this controller adjusts color temperature and brightness for warm and cool white LEDs. It also saves 3 preset scenes. Independent smooth dimming with 256 level brightness adjustment enables the DMX controller to achieve many colors within the full LED spectrum. Controller includes a power adapter that fits in junction box (not included) behind the controller. It contains an illuminated back light when powered off.
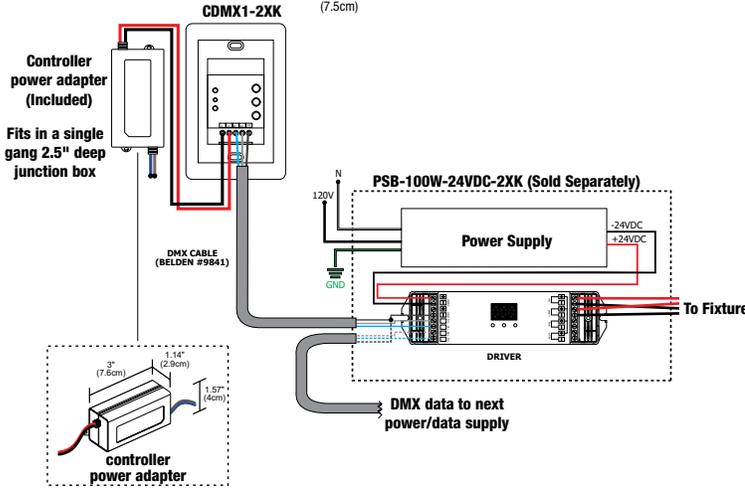
## Applications:
Indoor

## Installation:
Fits in a single gang 2.5 inch deep junction box, not to be used with a multi gang box

## Power Input:
120-240VAC

## Output Signal:
USITT DMX 512 (1990)

| Product | | Type | | Finish | |
|---|---|---|---|---|---|
| **CDMX1** | | **2XK** | | **WH** | |
| CDMX1 | DMX Single Zone Touch Controller | 2XK | 2 X Kelvin | WH | White |

## DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS†

| ORDERING CODE | PSB-100W-24VDC-2XK | PSB-2X100W-24VDC-2XK | PSB-3X100W-24VDC-2XK | PSB-4X100W-24VDC-2XK |
|---|---|---|---|---|
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 100W | 2X100W | 3X100W | 4X100W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 10" X 3" | 17" X 10" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | PSB-100W-24VDC-2XK-IW | NA | NA | NA |
| **DMX DYNAMIC/TUNABLE WHITE DIMMING & CONTROLS** | | | | |
| TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK) | • | • | • | • |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supply's used for LED lighting
  - 0-10 Dimmer: Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

## IN WALL MOUNTING OPTIONS
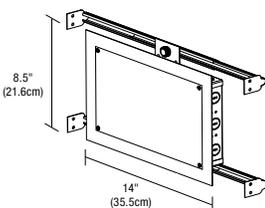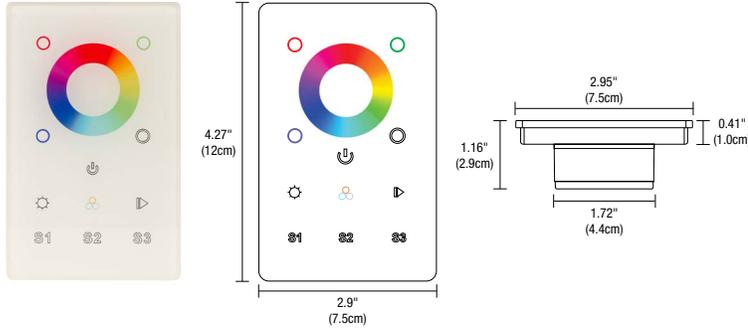
8.5" (21.6cm)

14" (35.5cm)

**8.5 x 14 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-100W-24VDC-2XK-IW

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR DMX REMOTE POWER SUPPLIES
## 24VDC 1-ZONE DIMMER WITH DYNAMIC COLOR CHANGING DMX 512 PROTOCOL RGB AND RGBW

**PURE EDGE**
LIGHTING

REV. 02.11.20

2.95"
(7.5cm)

0.41"
(1.0cm)

1.16"
(2.9cm)

1.72"
(4.4cm)

4.27"
(12cm)

2.9"
(7.5cm)

**Description:**
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

**Applications:**
Indoor

**Power Input:**
120-277VAC

**Installation:**
Fits in a single gang 2.5 inch deep junction box, not to be used with a multi gang box

**Output Signal:**
USITT DMX 512 (1990)
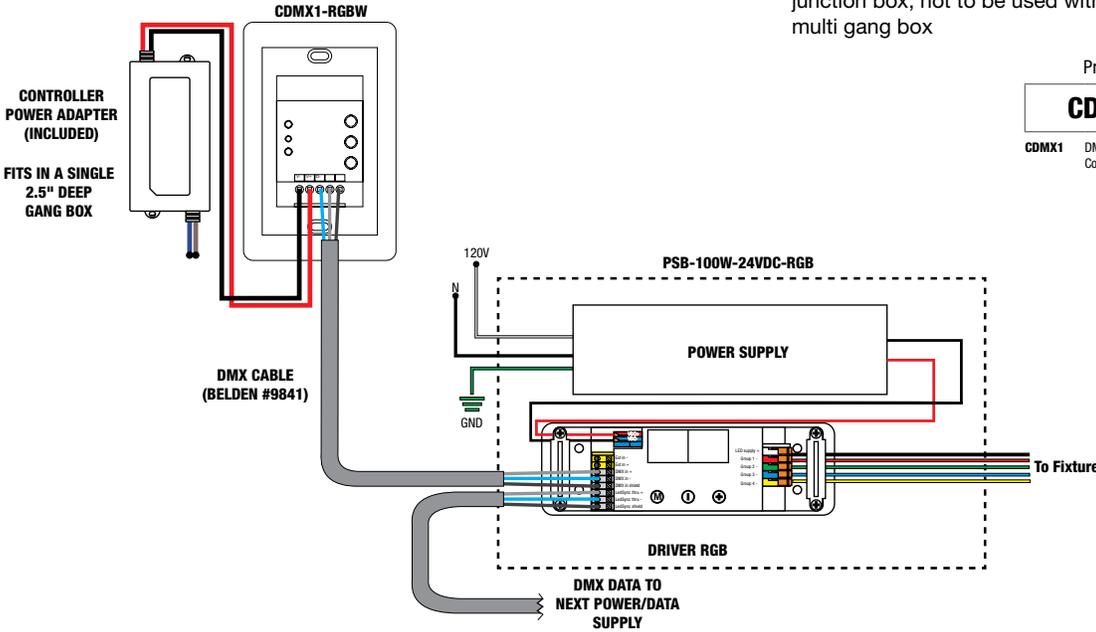
| Product | Type | Finish |
|---|---|---|
| **CDMX1** | **RGBW** | **WH** |

CDMX1 — DMX 1 Zone Touch Controller
RGBW — RGB & RGBW
WH — White

CDMX1-RGBW

CONTROLLER POWER ADAPTER (INCLUDED)

FITS IN A SINGLE 2.5" DEEP GANG BOX

DMX CABLE (BELDEN #9841)

120V

N

GND

**PSB-100W-24VDC-RGB**

POWER SUPPLY

LED supply +
Group 1
Group 2
Group 3
Group 4

To Fixture

**DRIVER RGB**

DMX DATA TO NEXT POWER/DATA SUPPLY

## DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS

| ORDERING CODE | PSB-100W-24VDC-RGB | PSB-2X100W-24VDC-RGB | PSB-3X100W-24VDC-RGB | PSB-4X100W-24VDC-RGB |
|---|---|---|---|---|
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 100W | 2X100W | 3X100W | 4X100W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.14" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 13" X 3" | 17" X 13" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | PSB-100W-24VDC-RGB-IW | N/A | N/A | N/A |
| **DIMMING & CONTROLS** | | | | |
| TOUCH SCREEN CONTROLLER (CTP) | • | • | • | • |
| COLOR DIAL CONTROLLER (CDP) | • | • | • | • |
| DMX 1 ZONE RGBW TOUCH CONTROLLER (CDMX1-RGBW) | • | • | • | • |

Classification: UL2108 - * 24VDC over 100 Watts, wires must be in conduit from Remote Power Supply to J-box.

8.5"
(21.6cm)

14"
(35.5cm)
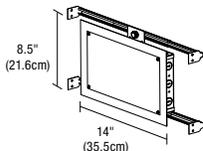
### 8.5" X 14" IN-WALL MOUNTING KIT
Includes Power Supply, Box Cover, and Stud Hangers for installing Junction Box in wall. Select "IW" in the options section of compatible Power Supply ordering codes if an In-Wall Mounting Kit is needed.

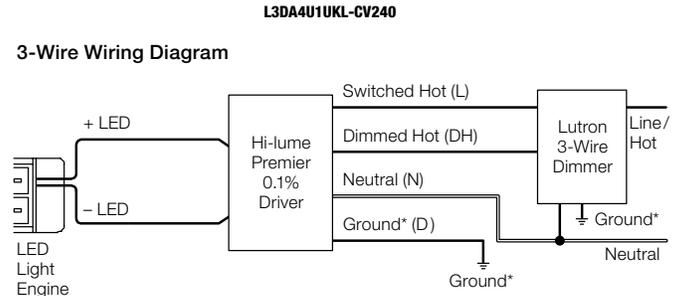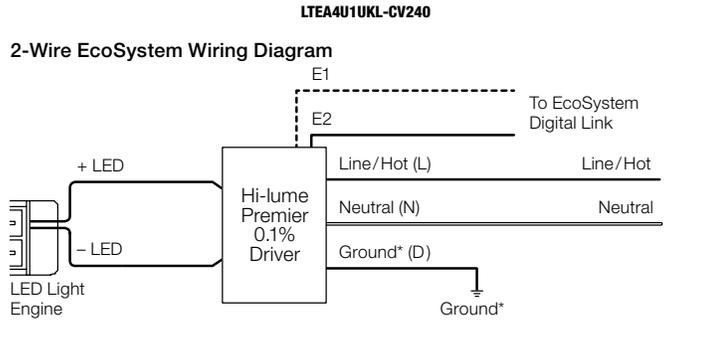**ORDERING CODES:** PSB-100W-24VDC-RGB-IW

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, LUTRON ECOSYSTEM

| LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®† | | | |
|---|---|---|---|
| **ORDERING CODES** | **L3D0-96W24V-U** | **2-WIRE ECOSYSTEM**<br>**LTEA4U1UKL-CV240** | **3-WIRE ECOSYSTEM**<br>**L3DA4U1UKL-CV240** |
| **SPECIFICATIONS** | | | |
| MAXIMUM LOAD | 96W | 5W-40W | 5W-40W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 10.5" X 5.5" X 2" | 4" X 4.89" X 2.62" | 4" X 4.89" X 2.62" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 |
| **DIMMING AND CONTROLS** | | | |
| RADIO RA2 | • | • | • |
| HOMEWORKS QS | • | • | • |
| PHPM-3F-120 | • | • | • |
| PHPM-3F-DV | • | • | • |
| BCI-0-10 | • | • | • |

†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

**LTEA4U1UKL-CV240**

**2-Wire EcoSystem Wiring Diagram**



**L3DA4U1UKL-CV240**

**3-Wire Wiring Diagram**



| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, ELV

**PURE EDGE**
LIGHTING

### ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡

| ORDERING CODES | PS-60L-ELV-24VDC | PSB-60W-ELV-24VDC | PSB-2X60W-ELV-24VDC | PSB-100W-ELV-24VDC |
|---|---|---|---|---|
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 60W NON-IC, 50W-IC (FITS IN JBOX) | 60W | 2X60W | 96W |
| INPUT VOLTAGE | 120VAC | 120VAC | 120VAC | 120VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 2.25" X 1.25" X 0.83" | 8.125" X 2" X 1.75" | 12.15" X 6.48" X 2.18" | 9.25" X 3.5" X 2" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN WALL MOUNTING | N/A | PSB-60W-ELV-24VDC-IW | PSB-2X60W-ELV-24VDC-IW | PSB-100W-ELV-24VDC-IW |

### ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡

| ORDERING CODES | PSB-2X100W-ELV-24VDC | PSB-3X100W-ELV-24VDC | PSB-4X100W-ELV-24VDC |
|---|---|---|---|
| **SPECIFICATIONS** | | | |
| MAXIMUM LOAD | 2X96W | 3X96W | 4X96W |
| INPUT VOLTAGE | 120VAC | 120VAC | 120VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.15" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 13" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 |
| IN WALL MOUNTING | PSB-2X100W-ELV-24VDC-IW | N/A | N/A |
| **DIMMING AND CONTROLS** | | | |
| LUTRON DIVA: DVELV-300P | • | • | • |
| LUTRON SKYLARK: SELV-300P | • | • | • |
| LUTRON RADIO RA2: RRD-6NA | • | • | • |
| LUTRON MAESTRO: MAELV-600 | • | • | • |
| LEGRAND ADORNE: ADTP-703TUM4 | • | • | • |

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White (2K4K) color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-lume® Power Supplies. Dynamic Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

‡Electrical Panels using Seimens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies
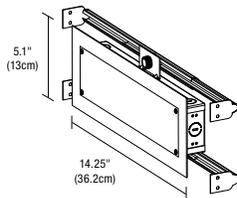


**5.1 x 14.25 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:**   PSB-60W-ELV-24VDC-IW
PSB-100W-ELV-24VDC-IW
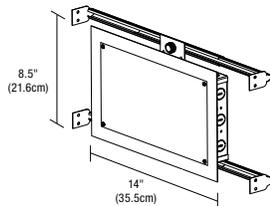


**8.5 x 14 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
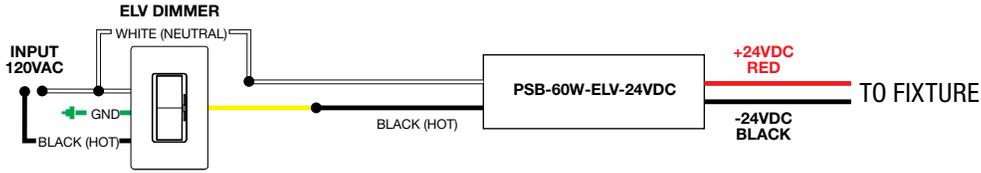
**Ordering Codes:**   PSB-2X60W-ELV-24VDC-IW
PSB-2X100W-ELV-24VDC-IW

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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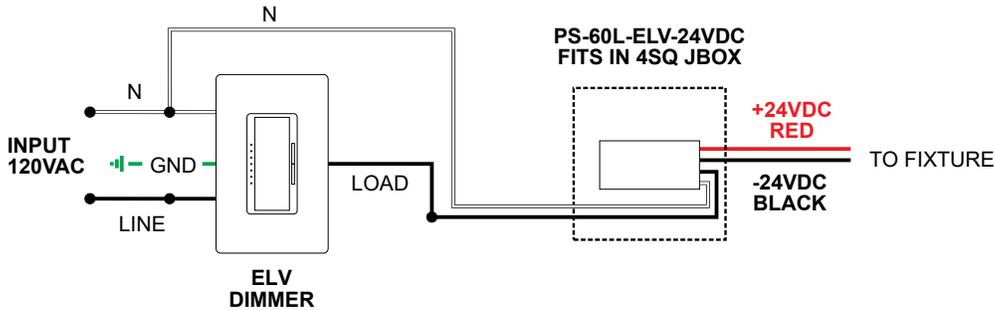
14

## SAMPLE WIRING DIAGRAMS 24VDC ELV

**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

**ELV DIMMER**
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-60W-ELV-24VDC
BLACK (HOT)
+24VDC RED
TO FIXTURE
-24VDC BLACK

**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2
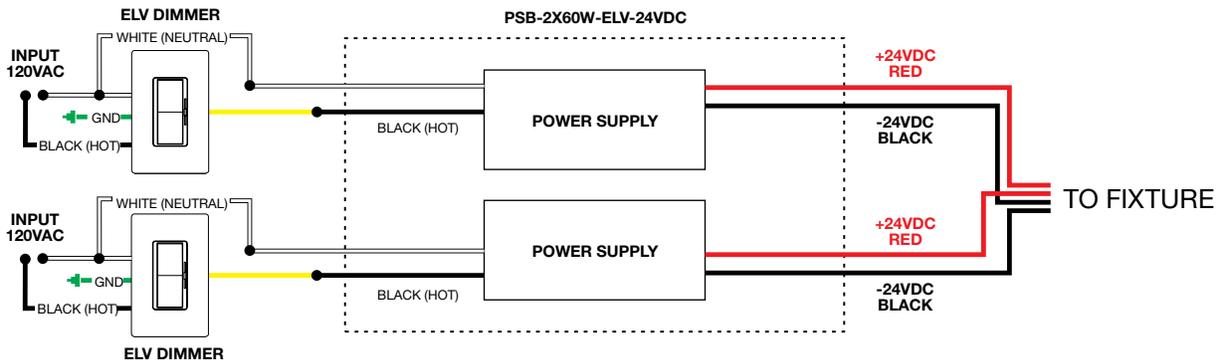
N
N
INPUT 120VAC
GND
LINE
LOAD
ELV DIMMER
PS-60L-ELV-24VDC FITS IN 4SQ JBOX
+24VDC RED
TO FIXTURE
-24VDC BLACK

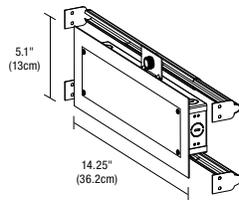**Application:** Dual ELV dimming for Dynamic/Tunable White 2000K-4000K

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

**ELV DIMMER**
WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
PSB-2X60W-ELV-24VDC
BLACK (HOT)
POWER SUPPLY
+24VDC RED
-24VDC BLACK
TO FIXTURE

WHITE (NEUTRAL)
INPUT 120VAC
GND
BLACK (HOT)
BLACK (HOT)
POWER SUPPLY
+24VDC RED
-24VDC BLACK
ELV DIMMER

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# INDOOR CONSTANT VOLTAGE 0-10V REMOTE POWER SUPPLIES
## 24VDC 0-10V REMOTE POWER SUPPLY, STATIC & DYNAMIC TUNABLE WHITE DUAL CONTROL.

**PURE EDGE LIGHTING**

| 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS† | | | | |
|---|---|---|---|---|
| **ORDERING CODE** | PSB-25W-010-24VDC | PSB-60W-010-24VDC | PSB-96W-010-24VDC | PSB-2X96W-010-24VDC |
| **SPECIFICATIONS** | | | | |
| MAXIMUM LOAD | 25W | 60W | 96W | 2X96W |
| INPUT VOLTAGE | 120VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 3.12" X 2.18" | 12.4" X 3.12" X 2.18" | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | PSB-25W-010-24VDC-IW | PSB-60W-010-24VDC-IW | PSB-96W-010-24VDC-IW | PSB-2X96W-010-24VDC-IW |

| 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS† | | |
|---|---|---|
| **ORDERING CODE** | PSB-3X96W-010-24VDC | PSB-4X96W-010-24VDC |
| **SPECIFICATIONS** | | |
| MAXIMUM LOAD | 3X96W | 4X96W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC |
| DIMENSIONS | 14" X 10" X 3" | 17" X 13" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 |
| IN-WALL MOUNTING | N/A | N/A |
| **DIMMING & CONTROLS** | | |
| PHILIPS SUNRISE: SR1200ZTUNV | • | • |
| LUTRON DIVA: DVTV-WH, DVSTV-WH | • | • |
| LUTRON NOVA T: NTSTV-DV-XX | • | • |
| LUTRON GRAFIX EYE QS: QSGRJ-XP | • | • |
| LUTRON RADIO RA2: RRD-10ND | • | • |
| LEVITON: LEV40050 | • | • |
| LEVITON IP710-LFZ | • | • |
| LEGRAND: ADPD4FBL3P2W4 | • | • |

5.1"
(13cm)

14.25"
(36.2cm)

**5.1 x 14.25 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-25W-010-24VDC-IW, PSB-60W-010-24VDC-IW
PSB-96W-010-24VDC-IW
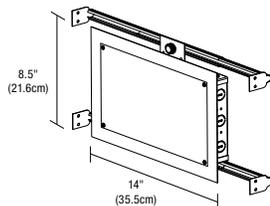
8.5"
(21.6cm)

14"
(35.5cm)

**8.5 x 14 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-2X96W-010-24VDC-IW

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|
| | | | | | |

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# INDOOR CONSTANT VOLTAGE 0-10V REMOTE POWER SUPPLIES
24VDC 0-10V REMOTE POWER SUPPLY, STATIC & DYNAMIC TUNABLE WHITE DUAL CONTROL.

**PURE EDGE**
LIGHTING

## SAMPLE WIRING DIAGRAMS 24VDC 010

**Application:** 0-10V Dimming Applications For Static White and Dynamic Tunable White 0-10V Dual Dimming.
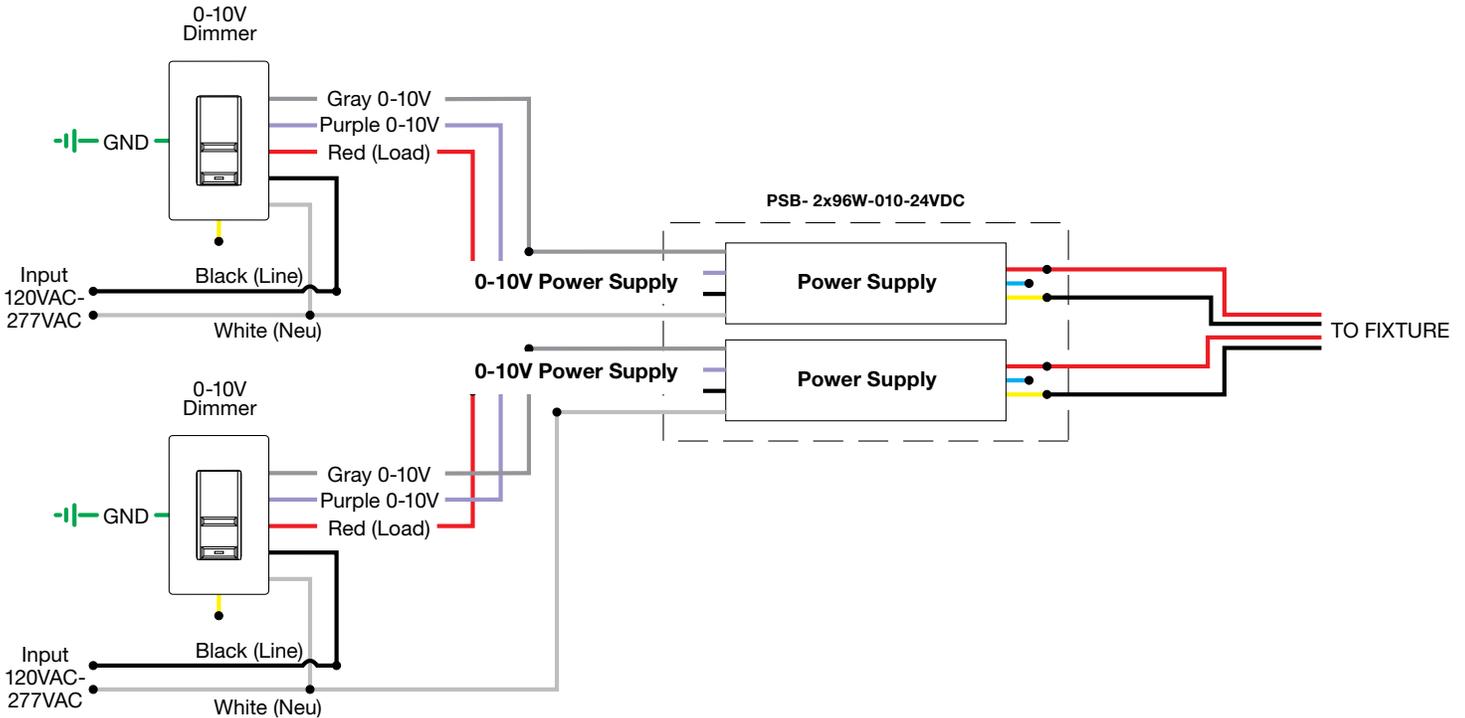
**Dimming:** Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)
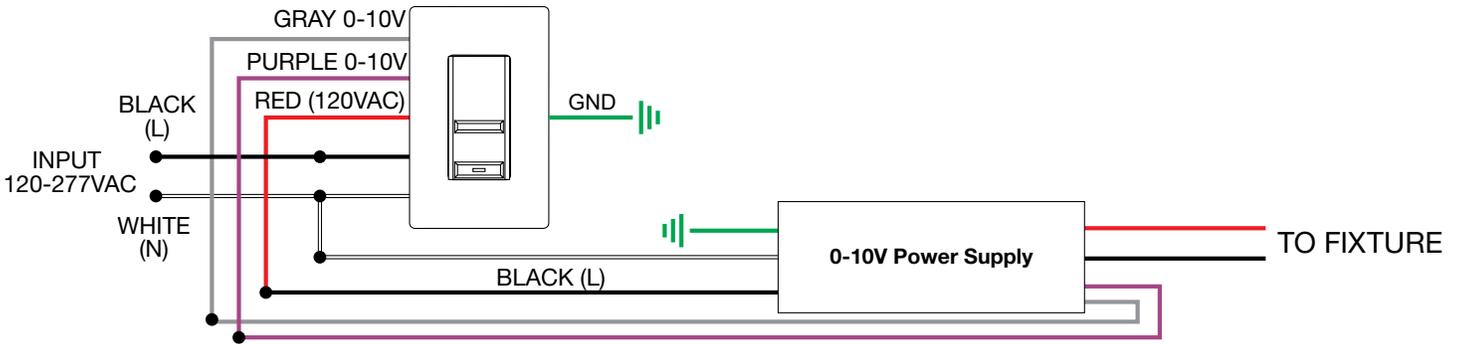


**Application:** Dual 0-10V dimming for Dynamic/Tunable White 2000K-4000K

**Dimming:** Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, *IP710-DLZ *(Built in LED locator light), Legrand Dimmer: ADPD4FBL3P2W4, Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)



| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# LIGHT CHANNEL TM30 DATA
## 24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

**PURE EDGE LIGHTING**

**TM-30-15 DATA:** The data below is for SS2C, SS5C, and SS7C bare LED Soft Strips. 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.

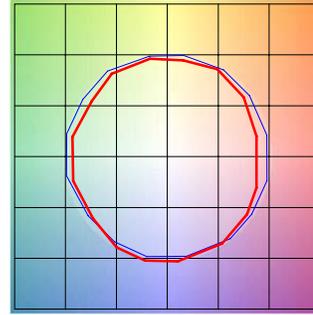### 2200K | Rf: 83.9 | Rg: 94.9
Color Vector Graphic
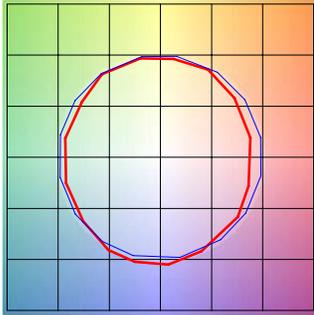


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 77.6 | -10.0% | 1.8% |
| 2 | 80.7 | -7.5% | 7.0% |
| 3 | 79.5 | -2.9% | 8.9% |
| 4 | 90.5 | -3.1% | 2.4% |
| 5 | 93.9 | -1.3% | 1.9% |
| 6 | 91.9 | -0.9% | -0.2% |
| 7 | 87.6 | -6.3% | -2.7% |
| 8 | 90.5 | -5.4% | 2.7% |
| 9 | 83.8 | -4.7% | 6.5% |
| 10 | 81.2 | -2.5% | 10.0% |
| 11 | 83.3 | 3.9% | 9.4% |
| 12 | 86.4 | 5.6% | 2.6% |
| 13 | 86.2 | 4.5% | -12.4% |
| 14 | 64.3 | -1.0% | -21.9% |
| 15 | 85.1 | -4.4% | -7.5% |
| 16 | 75.0 | -9.9% | -12.0% |

■ Test ■ Reference

### 2400K | Rf: 84.5 | Rg: 94.4
Color Vector Graphic



| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 81.1 | -7.7% | 3.0% |
| 2 | 84.9 | -5.7% | 4.9% |
| 3 | 85.3 | -2.3% | 6.1% |
| 4 | 87.7 | -5.5% | -0.5% |
| 5 | 92.5 | -3.9% | 0.5% |
| 6 | 91.1 | -3.4% | 0.1% |
| 7 | 86.0 | -7.7% | 0.5% |
| 8 | 87.1 | -6.0% | 4.3% |
| 9 | 80.1 | -3.9% | 9.8% |
| 10 | 79.0 | -0.9% | 11.8% |
| 11 | 82.3 | 5.5% | 10.1% |
| 12 | 87.6 | 5.4% | -0.5% |
| 13 | 84.7 | 3.3% | -12.0% |
| 14 | 78.0 | 0.8% | -13.7% |
| 15 | 86.9 | -5.5% | -4.3% |
| 16 | 78.1 | -7.5% | -10.8% |

■ Test ■ Reference

### 2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic
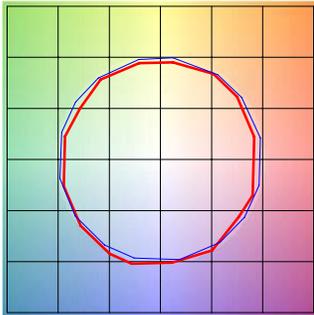


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 86.4 | -5.6% | 2.3% |
| 2 | 89.7 | -3.3% | 3.1% |
| 3 | 90.5 | -1.5% | 3.8% |
| 4 | 90.0 | -4.3% | 1.1% |
| 5 | 92.9 | -3.7% | 0.2% |
| 6 | 93.5 | -2.5% | -0.8% |
| 7 | 86.3 | -7.2% | 2.5% |
| 8 | 90.7 | -4.0% | 3.2% |
| 9 | 85.2 | -2.4% | 8.1% |
| 10 | 81.7 | 0.9% | 10.8% |
| 11 | 85.4 | 4.5% | 8.9% |
| 12 | 88.7 | 5.7% | -1.4% |
| 13 | 88.3 | 1.3% | -7.9% |
| 14 | 85.1 | 2.4% | -10.4% |
| 15 | 88.1 | -4.8% | -2.7% |
| 16 | 81.7 | -4.3% | -10.9% |

■ Test ■ Reference

### 3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
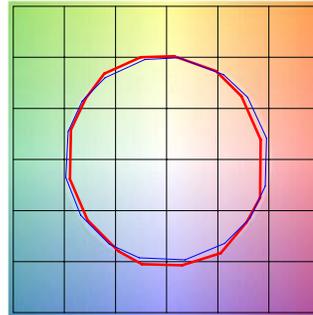


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 87.7 | -5.9% | -0.3% |
| 2 | 87.9 | -4.4% | 4.3% |
| 3 | 82.9 | -1.2% | 7.9% |
| 4 | 89.9 | 0.6% | 4.7% |
| 5 | 92.7 | 3.0% | 3.5% |
| 6 | 92.7 | 3.6% | -1.7% |
| 7 | 90.8 | -1.3% | -4.4% |
| 8 | 93.7 | -2.5% | -2.2% |
| 9 | 91.7 | -3.7% | 2.3% |
| 10 | 85.5 | -2.8% | 7.8% |
| 11 | 83.3 | 0.7% | 11.0% |
| 12 | 86.4 | 5.5% | 3.8% |
| 13 | 90.6 | 4.6% | -3.6% |
| 14 | 85.6 | 5.9% | -8.4% |
| 15 | 89.5 | -0.6% | -5.7% |
| 16 | 82.6 | -2.7% | -12.0% |

■ Test ■ Reference

### 3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
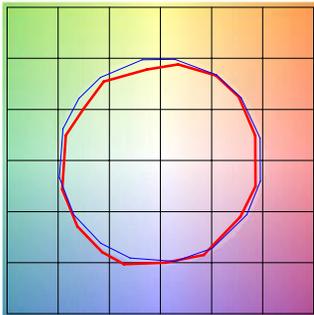


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 86.6 | -4.2% | 3.4% |
| 2 | 91.7 | -1.4% | 1.8% |
| 3 | 94.9 | -0.7% | 0.4% |
| 4 | 87.9 | -4.5% | -4.1% |
| 5 | 85.9 | -10.3% | -2.7% |
| 6 | 89.8 | -5.2% | -0.4% |
| 7 | 79.6 | -9.5% | 6.5% |
| 8 | 87.6 | -4.0% | 5.7% |
| 9 | 81.4 | -0.5% | 11.8% |
| 10 | 78.3 | 3.3% | 11.4% |
| 11 | 85.7 | 6.3% | 6.1% |
| 12 | 86.3 | 7.1% | -4.6% |
| 13 | 86.1 | -0.7% | -9.6% |
| 14 | 85.1 | 0.8% | -10.4% |
| 15 | 83.4 | -4.1% | -5.3% |
| 16 | 82.5 | -3.6% | -5.7% |

■ Test ■ Reference

### 4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
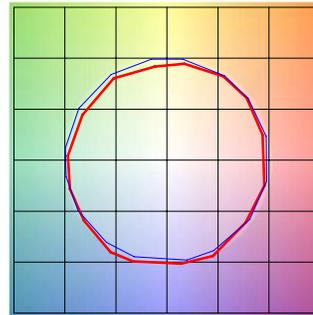


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 89.0 | -3.1% | 2.1% |
| 2 | 93.2 | -0.9% | 1.3% |
| 3 | 94.3 | -1.1% | 0.7% |
| 4 | 89.5 | -4.0% | -2.3% |
| 5 | 87.6 | -7.8% | -1.8% |
| 6 | 92.2 | -4.6% | 0.1% |
| 7 | 87.4 | -6.6% | 3.6% |
| 8 | 85.7 | -3.8% | 7.0% |
| 9 | 81.5 | -1.3% | 12.4% |
| 10 | 80.0 | 0.9% | 11.4% |
| 11 | 83.3 | 5.9% | 8.7% |
| 12 | 89.7 | 4.8% | -0.3% |
| 13 | 88.5 | 2.4% | -6.3% |
| 14 | 92.7 | 4.0% | -3.8% |
| 15 | 86.1 | -1.6% | -4.5% |
| 16 | 85.0 | -1.4% | -5.0% |

■ Test ■ Reference

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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# LIGHT CHANNEL TM30 DATA
## 24VDC LED DO-IT-YOURSELF DYNAMIC WHITE / TUNABLE WHITE, WARM DIM, RGB

PURE EDGE
LIGHTING

REV 02.11.20

**TM-30-15 DATA:** The data below is for SS2C, SS5C, and SS7C bare LED Soft Strips. 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.
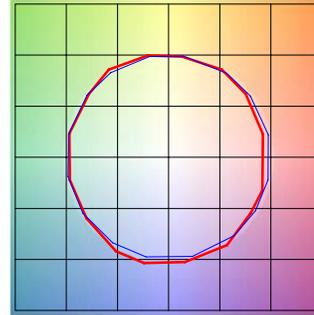
### 5700K | Rf: 80.3 | Rg: 91.5
Color Vector Graphic
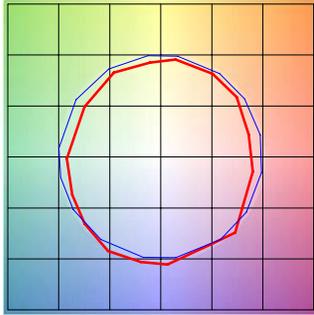


■ Test   ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 73.8 | -11.2% | 2.6% |
| 2 | 83.7 | -5.5% | 5.8% |
| 3 | 84.2 | -4.0% | 5.5% |
| 4 | 85.8 | -3.5% | 1.3% |
| 5 | 85.3 | -7.1% | 0.6% |
| 6 | 89.2 | -5.8% | -2.2% |
| 7 | 81.5 | -10.7% | 1.2% |
| 8 | 75.7 | -9.7% | 8.5% |
| 9 | 74.9 | -7.8% | 18.8% |
| 10 | 67.8 | -1.6% | 18.0% |
| 11 | 76.1 | 5.5% | 12.0% |
| 12 | 90.8 | 4.9% | -1.6% |
| 13 | 83.6 | 5.0% | -9.5% |
| 14 | 81.7 | -1.2% | -10.0% |
| 15 | 69.0 | 2.0% | -22.8% |
| 16 | 83.2 | -8.5% | -1.0% |

### 2700D | Rf: 89.5 | Rg: 100.8
Color Vector Graphic



■ Test   ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 88.8 | -5.1% | 1.4% |
| 2 | 89.8 | -2.7% | 4.1% |
| 3 | 87.2 | 0.3% | 5.9% |
| 4 | 92.3 | -0.9% | 1.0% |
| 5 | 93.3 | 1.5% | 1.7% |
| 6 | 92.4 | 3.6% | -0.2% |
| 7 | 92.2 | -0.9% | -2.4% |
| 8 | 96.7 | -0.4% | -1.1% |
| 9 | 92.3 | -1.2% | 3.7% |
| 10 | 88.9 | -0.0% | 6.1% |
| 11 | 86.4 | 5.1% | 7.4% |
| 12 | 88.2 | 6.3% | -0.9% |
| 13 | 87.2 | 3.8% | -8.1% |
| 14 | 84.2 | 3.8% | -11.0% |
| 15 | 89.8 | -2.6% | -4.3% |
| 16 | 82.7 | -3.4% | -11.1% |

### 3000D | Rf: 89.8 | Rg: 101.4
Color Vector Graphic
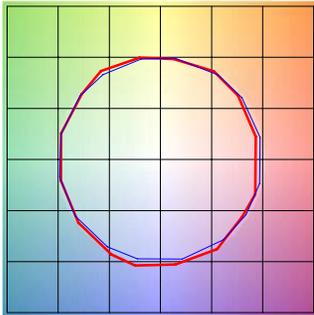


■ Test   ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 90.2 | -4.2% | 1.5% |
| 2 | 90.9 | -2.0% | 3.7% |
| 3 | 87.9 | 0.8% | 5.5% |
| 4 | 92.1 | -0.9% | 0.6% |
| 5 | 93.0 | 1.5% | 1.6% |
| 6 | 92.2 | 3.9% | -0.2% |
| 7 | 92.1 | -0.3% | -2.0% |
| 8 | 96.7 | 0.0% | -1.2% |
| 9 | 92.5 | -0.6% | 3.7% |
| 10 | 88.3 | 1.1% | 7.0% |
| 11 | 87.2 | 4.1% | 7.4% |
| 12 | 87.2 | 6.7% | -1.0% |
| 13 | 88.2 | 3.8% | -7.2% |
| 14 | 85.3 | 4.3% | -9.9% |
| 15 | 90.9 | -2.2% | -3.6% |
| 16 | 83.4 | -2.2% | -11.2% |

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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