

LIGHT CHANNEL TRIM 1.6A 24VDC

BUILD-IT-YOURSELF PLASTER-IN LED SYSTEM



DESCRIPTION

Light Channel Trim 1.6A BIY (Build-It-Yourself) allows for creating more complex configurations using pre-formed components for simplifying the installation process in a wood ceiling. The versatile 24VDC linear plaster-in LED system, creates a glare-free, smooth line of light indoor architectural lighting. The system recesses into 5/8" thick wood or drywall without joist modification. May be secured to studs that are spaced 13"- 24" apart, or between studs with mounting clips provided. The slim extrusions, LED strips, and lenses are field-cuttable and ordered in 1-foot increments (up to 40 feet before re-feeding). Multiple runs of channel mount flawlessly together providing smooth and Glare-free general illumination using two strips of Designer-grade Color Rendering LEDs (95+ CRI). Offered in multiple wattage options. Influenced by simplicity and elegance, the Truline 1.6A Plaster-in system brings together a modern and dynamic appearance to residential and commercial environments. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, email our design team: design@PureEdgeLighting.com.

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

- Uni Driver: Universal Dimming (**TRIAC, ELV, 0-10V**) with corresponding dimmer
- Lutron Hi-Lume®
- Electronic Low Voltage (**ELV**)
- Dynamic Color Changing (**DMX**)

*In-Wall Mounting Kits available for select power supplies

**Dynamic/Tunable White - Requires two dimmers or use our proprietary Tunable White Controller CDMX-1

ORDERING

Order TWO LED Strip Lengths, per total section run Length (Include End Feeds, Center Feeds, Corner Connectors, L-Picture Frames and all Channel Lengths).

FINISHES



DESIGN NOTE

Light Channel Trim 1.6 can be installed on a single surface (like a wall or ceiling), or on multiple planes that join runs from wall to ceiling, or from one wall to an adjacent wall. Use our pre-formed components to create dynamic configurations, including Mitered Picture Frame and Outside or Inside Corners for Room Wrapping installations.

LAMP

- Static White Color Temperatures: **22K-57K**
- Warm Dim: **27D** and **30D**
- Dynamic/Tunable White: **2K4K** and **27K6**
- Designer Grade High CRI LEDs
- Average Lamp Life 50,000 hours

ROOM WRAPPING INSTALLATION

Room Wrapping is the style of installation in which the electrician may create 90° angles with Inside Corner Channel Connectors (LCT1.6A-IC) and/or Outside Corner Channel Connectors (LCT1.6A-OC). The LED Soft Strip is installed flat in the back wall of the channel; and bend within inside or outside corners for seamless light across surfaces.

PRE-FORMED COMPONENTS

8' Channel and Lens, End Feed Power Channel Connector, Center Feed Power Channel Connector, L-Picture Frame Power Channel Connector, Junction Box, Outside Corner Channel Connector, Inside Corner Channel Connector, Channel Joiners, Take-Up Box, Channel Solderless Push & Light Straight Joiner Connector. For custom L's, T's, and X's, email our design team.

APPLICATIONS

Indoor damp or dry locations only. Ideal for general illumination and accenting architectural elements. Applications include Bath/Vanity, Kitchen, residential, commercial, retail, and hospitality environments.

COMPLIANCE

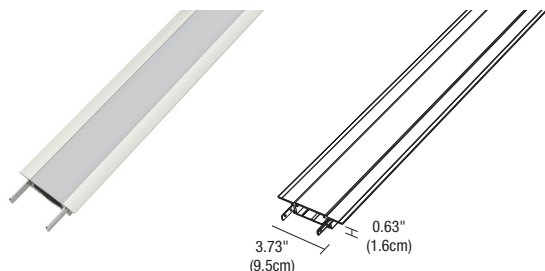
Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed. Complies with Title 24 JA8 high efficiency light source requirements with 0-10V, Universal and Lutron Hi-Lume power supplies

An original, ground-breaking design from PureEdge Lighting – Backed by over 30 years of precision manufacturing.

PROJECT		FIXTURE TYPE		DATE	
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LIGHT CHANNEL TRIM 1.6A 24VDC

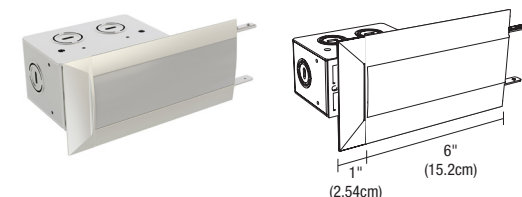
BUILD-IT-YOURSELF PLASTER-IN LED SYSTEM



CHANNEL & LENS

Plaster-In Channel with Lens and two LED Soft Strips (not included) installed flat on the back of the channel. Allows for the creation of Light Channel Trim 1.6A BIY systems. Field cuttable to any length. Includes Channel Joiners.

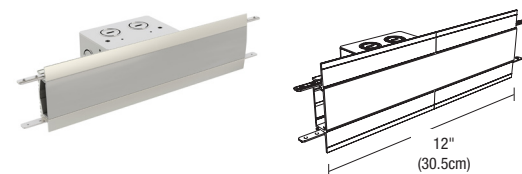
System	Component	Size	Finish
LCT1.6A	CHLN	1-8FT	SN
LCT1.6A Light Channel Trim 1.6A	CHLN Channel and Lens	1-8FT	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



END FEED POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from either end of the channel and two LED Soft Strips (not included) installed flat on the channel. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Solderless Snap & Light Power Connectors.

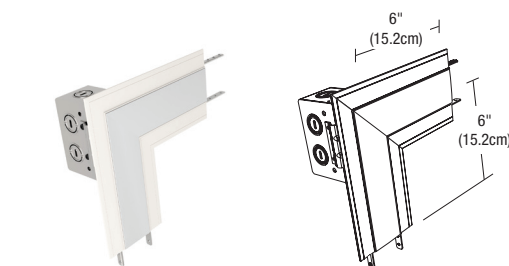
System	Component	Options	Finish
LCT1.6A	EP	(WHITE & RGB, LEAVE BLANK)	SN
LCT1.6A Light Channel Trim 1.6A	EP End Feed Power Channel Connector	RGBW Red, Green, Blue and 2000K White	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



CENTER FEED POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from the center of the channel and two LED Soft Strips (not included) installed flat on the channel. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Solderless Snap & Light Power Connectors.

System	Component	Options	Finish
LCT1.6A	CFP	(WHITE & RGB, LEAVE BLANK)	SN
LCT1.6A Light Channel Trim 1.6A	CFP Center Feed Power Channel Connector	RGBW Red, Green, Blue and 2000K White	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



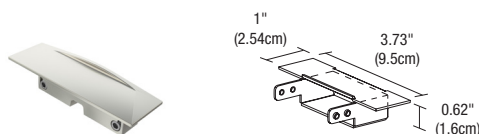
L-PICTURE FRAME POWER CHANNEL CONNECTOR

Allows 24VDC power to be fed from corners for 90° turns (with power) in Picture Frame Installations and two LED Soft Strips (not included) flows into the junction box to create continuous illumination on a wall or ceiling. Includes Lens, Channel Joiners, Junction Box, Adjustable Mounting Bars, and Channel Solderless Snap & Light Power Connectors.

System	Component	Options	Finish
LCT1.6A	LP	(WHITE & RGB, LEAVE BLANK)	SN
LCT1.6A Light Channel Trim 1.6A	LP L-Picture Frame Power Channel Connector LP2 L-Picture Frame Dual Feed Power Channel Connector	RGBW Red, Green, Blue and 2000K White	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel

TAKE-UP BOX

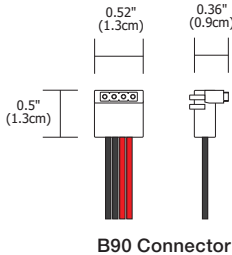
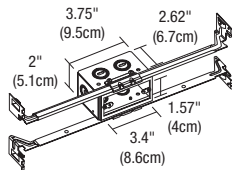
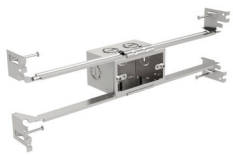
Prevents dark spots at end of run by tucking excess LED Soft Strip safely behind wall. Includes Channel Joiners.



System	Component	Finish
LCT1.6A	TBOX	SN
LCT1.6A Light Channel Trim 1.6A	TBOX Take-Up Box	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel

LIGHT CHANNEL TRIM 1.6A 24VDC

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JUNCTION BOX

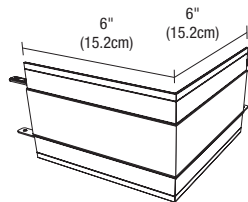
Included with End Feed Power Channel Connector, Center Feed Power Channel Connector, and L-Picture Frame Power Channel Connector. Mounts behind drywall with Adjustable Mounting Bars. Low voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by the channel and required at the beginning of each run. Quick shipment available to rough-in electrical wiring before drywall installation.

System	Size	Component
LCT1.6A	1RE	JBOX
LCT1.6A Light Channel Trim 1.6A	1RE 1" Rectangle	JBOX Junction Box

OUTSIDE CORNER CHANNEL CONNECTOR

Allows Room Wrapping installation 90° outside corners and two LED Soft Strips (not included) bends flat within the outside corners for seamless light across surfaces. For use from wall to ceiling or from one wall to an adjacent wall. Includes Lens and Channel Joiners.

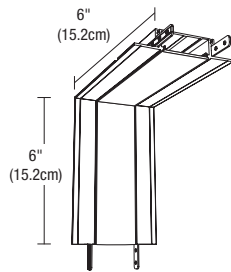
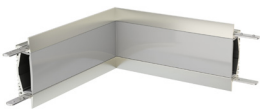
System	Component	Finish
LCT1.6A	OC	SN
LCT1.6A Light Channel Trim 1.6A	OC Outside Corner Channel Connector	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



INSIDE CORNER CHANNEL CONNECTOR

Allows Room Wrapping installation 90° inside corners and two LED Soft Strips (not included) bends flat within the inside corners for seamless light across surfaces. For use from wall to ceiling or from one wall to an adjacent wall. Includes Lens and Channel Joiners.

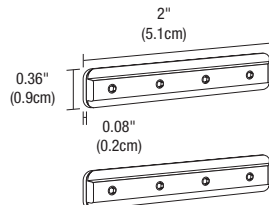
System	Component	Finish
LCT1.6A	IC	SN
LCT1.6A Light Channel Trim 1.6A	IC Inside Corner Channel Connector	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



CHANNEL JOINERS

Included with Straight Channel, Channel Connectors, Power Feeds and Take-Up Box. Channel Joiners ship as a pair to connect two channels together. Additional channel joiners may be necessary based on lighting design.

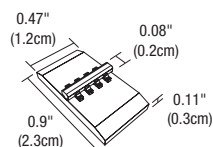
Product	Component	Finish
LCR	SC	SN
LCR Light Channel Joiner	SC Straight Connector	BK Black BZ Antique Bronze CH Chrome SN Satin Nickel



SOFT STRIP SOLDERLESS SNAP & LIGHT STRAIGHT JOINER

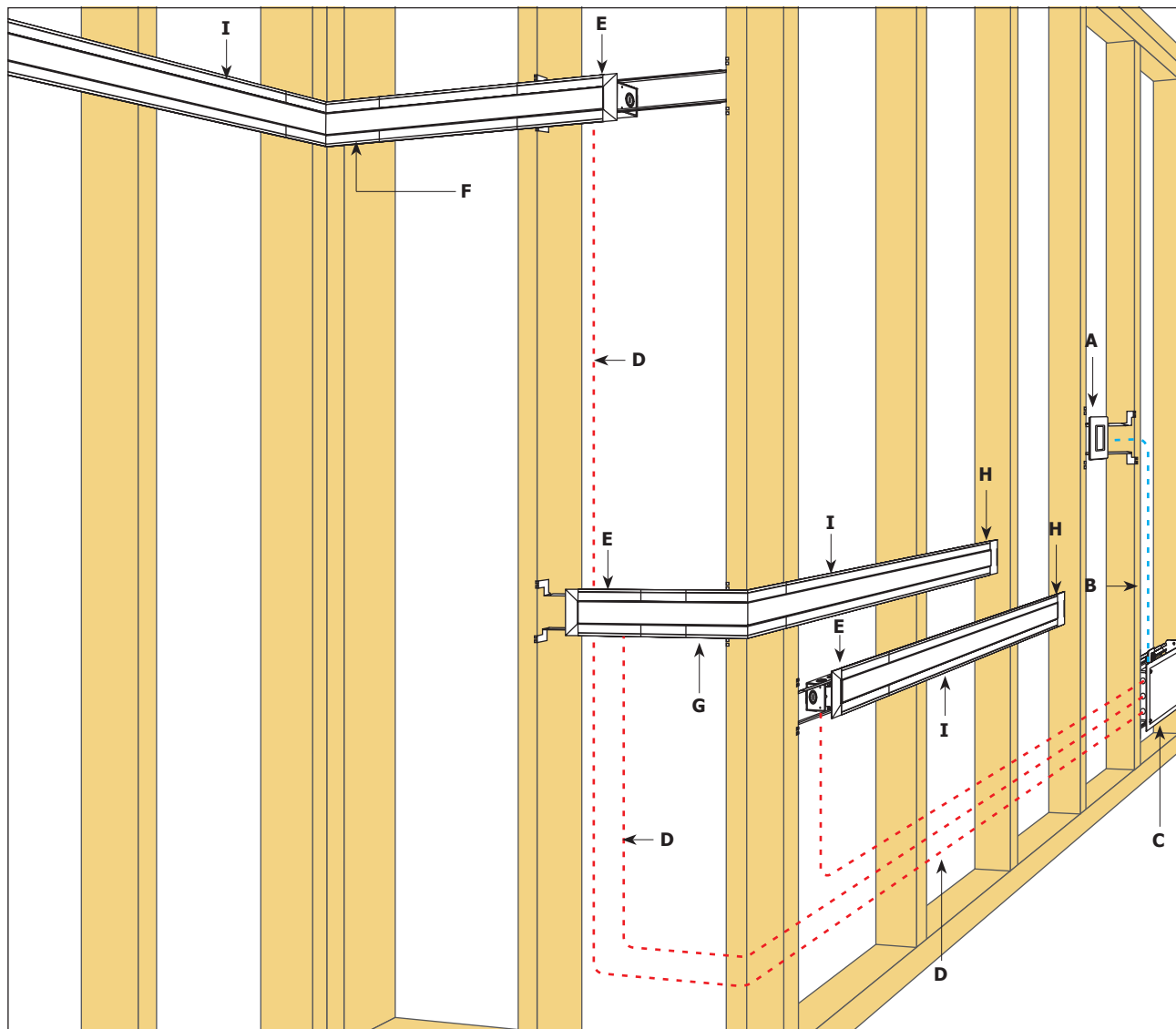
Sold separately, and joins two sections of LED Soft Strip in the channel. Used when replacing a section of LED Soft Strip.

Product	Type
CH	SLC
CH Channel	SLC Snap & Light Straight Joiner, 4 Wire (27K-57K, 27D, 30D, and 2K4K) SLC-RGBW Snap & Light Straight Joiner, 5 Wire (RGB+W)

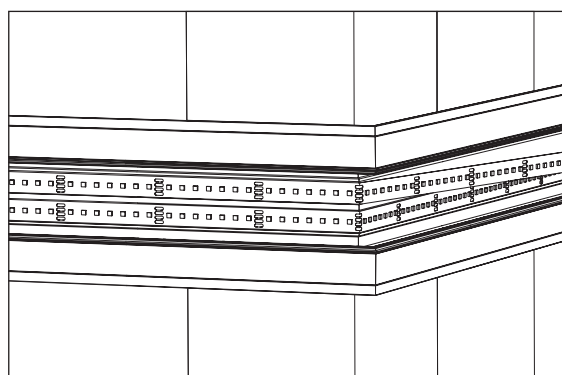


LIGHT CHANNEL TRIM 1.6A 24VDC BUILD-IT-YOURSELF PLASTER-IN LED SYSTEM

ROOM WRAPPING INSTALLATION



- A. DIMMER OR SWITCH**
- B. 120VAC WIRING**
- C. 120V/24VDC REMOTE POWER SUPPLY WITH IN-WALL MOUNTING KIT, FOR MORE REMOTE POWER SUPPLIES**
- D. 24VDC, CLASS 2 WIRING**
- E. END FEED POWER CHANNEL CONNECTOR WITH JUNCTION BOX**
- F. INSIDE CORNER CHANNEL CONNECTOR**
- G. OUTSIDE CORNER CHANNEL CONNECTOR**
- H. TAKE-UP BOX**
- I. LIGHT CHANNEL**



LED mounted to the back of the channel

PROJECT		FIXTURE TYPE		DATE	
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LIGHT CHANNEL TRIM 1.6A 24VDC

BUILD-IT-YOURSELF PLASTER-IN LED SYSTEM

5 WATTS PER FOOT

LENGTH IN FEET	WATTS
1	5
2	10
3	14
4	19
5	24
6	29
7	34
8	38
9	43
10	48

LENGTH IN FEET	WATTS
11	53
12	58
13	63
14	67
15	72
16	77
17	82
18	87
19	91
20	96

LENGTH IN FEET	WATTS
21	2 x 51
22	2 x 53
23	2 x 55
24	2 x 58
25	2 x 60
26	2 x 62
27	2 x 65
28	2 x 67
29	2 x 70
30	2 x 72

LENGTH IN FEET	WATTS
31	2 x 74
32	2 x 77
33	2 x 79
34	2 x 82
35	2 x 84
36	2 x 86
37	2 x 89
38	2 x 91
39	2 x 94
40	2 x 96

10 WATTS PER FOOT

LENGTH IN FEET	WATTS
1	10
2	19
3	29
4	38
5	48

LENGTH IN FEET	WATTS
6	58
7	67
8	77
9	86
10	96

LENGTH IN FEET	WATTS
11	2 x 53
12	2 x 58
13	2 x 62
14	2 x 67
15	2 x 72

LENGTH IN FEET	WATTS
16	2 x 77
17	2 x 82
18	2 x 87
19	2 x 91
20	2 x 96

14 WATTS PER FOOT

LENGTH IN FEET	WATTS
1	15
2	30

LENGTH IN FEET	WATTS
3	45
4	60

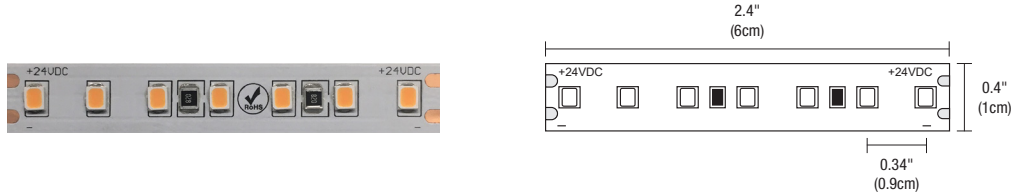
LENGTH IN FEET	WATTS
5	75
6	90

STOMP STRIP

24VDC, STATIC WHITE, WARM DIM & DYNAMIC TUNABLE WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 12.14.20



CAN'T STOMP ME OUT

Our Low Voltage BIY (Build-It-Yourself) Stomp Strip is value engineered and highly durable, designed to withstand the harsh elements of a job site, including stomping and twisting. Stomp Strip is used for our BIY fixtures and systems including Truline & Verge.

FEATURES & BENEFITS

- 4 Pin Connectors and Pre-soldered leads reduce time and labor during installation
- Value Engineered: Developed to meet popular demand for cost effective illumination without sacrificing output, color rendering and efficacy
- Tolerance: Created to resist damage in rigorous environments such as busy commercial jobsites
- Compact LED spacing: Produce 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
- Applications: Indoor, damp and dry locations
- Warranty: Includes a 5-year pro-rated warranty

SPECIFICATIONS

- 24VDC, 120-277VAC Input
- 2.5, 4.4 or 7.5 watts per foot
- Sold in 1 foot increments
- Field-cutable increments: Static White 2.4", Warm Dim and Tunable White 3"
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

LAMP

- 7 Static White Color Temperatures **22K-57K**
- Warm Dim: **27D** and **30D** dim down to 1900K, resembling incandescent light sources
- Dynamic/Tunable White: **2K4K** and **27K6** allow for independent control of color temperatures and dimming
- Average life: 50,000 hours

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

- Electronic Low Voltage Dimming (**ELV**)[†]
- Uni Driver: Universal dimming (**ELV, 0-10V, TRIAC**)
- 0-10 Volt (**0-10**) Dimming
- Dynamic Color Changing (**DMX**)
- Lutron Hi-Lume®

*In-Wall Mounting Kits available for select Power Supplies

[†]With N-Lite Dimming Do Not use ELV power supply's, use only 0-10 volt or Uni drivers power supplies

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 2WDC, 2.5 watts per foot - 40' (Static White Only)
- 5WDC, 4.4 watts per foot - 20'
- 7WDC, 7.5 watts per foot - 12' (Excludes Warm Dim)

COMPATIBLE FIXTURES & SYSTEMS

- All PureEdge Lighting BIY channels
- 5/8" Drywall Systems: Truline, Truquad, Reveal and Verge

APPROVALS

Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed. Complies with Title 24 JA8 high efficiency light source requirements with 0-10V, Universal and Lutron Hi-Lume power supplies.

	ST2A							ST5A							ST7A								
WATTS PER FOOT	2.5W							4.4W							7.5W								
COLOR TEMPERATURE	22K	24K	27K	30K	35K	40K	57K	22K	24K	27K	27D*	30K	30D*	35K	40K	57K	22K	24K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	205	226	249	272	312	340	361	357	393	434	553	474	563	544	592	629	581	641	707	773	887	965	1025
LUMENS PER WATT (lm/w)	82	90	100	109	125	136	144	81	89	99	115	108	117	124	135	143	80	88	97	106	121	132	140
CRI	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	94+	92+	94+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+

*27D, 30D - Warm Dim (4.8 Watts)

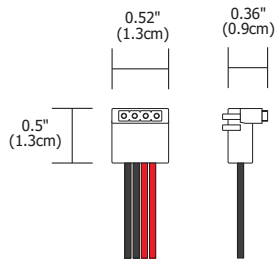
	ST5A 2K4K							ST5A 27K6							ST7A 2K4K							ST7A 27K6						
WATTS PER FOOT	4.4W							4.4W							7.5W							7.5W						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	27K	30K	35K	40K	45K	57K	65K	20K	22K	24K	27K	30K	35K	40K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	389	409	429	449	491	511	530	411	420	436	452	447	443	442	525	587	648	707	764	814	718	555	567	589	610	603	598	596
LUMENS PER WATT (lm/w)	97	89	93	98	107	111	133	103	91	95	98	97	96	110	82	81	90	98	106	113	112	87	79	82	85	84	83	93
CRI	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+

System	Type	Voltage	Length in Feet	Color Temperature
ST2A	4PIN	24V	40	27K
ST2A Stomp Strip, 2.5 watts (40ft Max)	4PIN 4 Pin	24V 24 Volt	1-40	22K 2200K Amber White
ST5A Stomp Strip, 4.4 watts (20ft Max)	SE1 6' Soldered lead, 1 end			24K 2400K Very Warm White
ST7A Stomp Strip, 7.5 watts (12ft Max)	SE2 6' Soldered leads, 2 ends			27K 2700K Incandescent White
	Leave blank for no connector			27D 2700K Warm Dim (5W Only)
				30K 3000K Warm White
				30D 3000K Warm Dim (5W Only)
				35K 3500K Neutral White
				40K 4000K Cool White
				57K 5700K Daylight White
				2K4K Tunable White 2000K-4000K (5W & 7W Only)
				27K6 Tunable White 2700K-6500K (5W & 7W Only)

PROJECT	FIXTURE TYPE	DATE
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ADDITIONAL COMPONENTS

REV 12.14.20



B90 POWER END FEED

24VDC, Class 2, 4Pin 14GA, 8", 90 Degrees.

Product	Type	Option
LC	PFE	B90
LC LED Connector	PFE Power Feed	B90 Bends 90 Degrees

POWER FEED CONNECTOR CORD

The 6 foot long power feed connector cord conducts power from the transformer to LED Strip. It connects to the male end of the Strip.



Product	Type	Size
SS	PFE	6FT
SS Soft Strip	PFE Power Feed Connector Cord	6FT 12FT

FLEXIBLE CONNECTOR

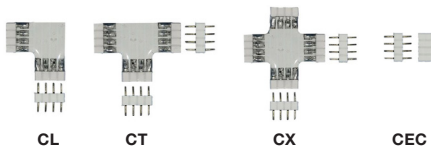
Available in 3, 6, 12, 36, 96 and 144-inch lengths, link two sections of LED Strip end to end.



Product	Type	Length (Inches)	Option
SS	CFX	3IN	RGB
SS Stomp Strip	CFX Flexible Connector CFXT Flexible T Connector (3" Only)	3IN 36IN 6IN 96IN 12IN 144IN	RGB Red, Green and Blue *Leave blank for all other color temperatures

CONNECTORS

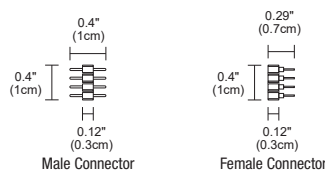
L, T and X Connectors join LED Strip sections. End Cap Connector converts female end of Stomp Strip to male end or may be used as end cap.



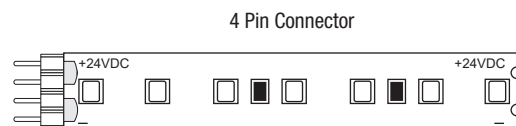
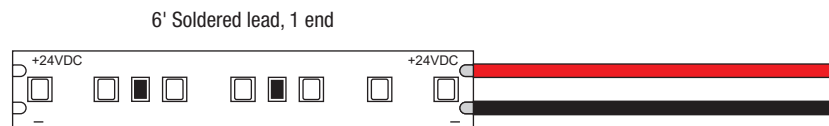
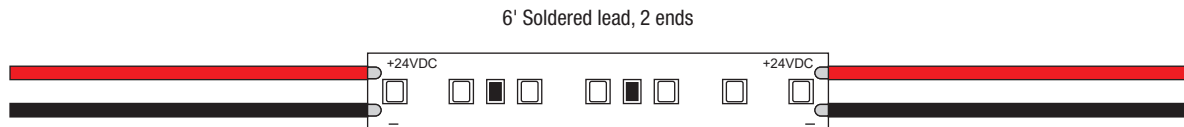
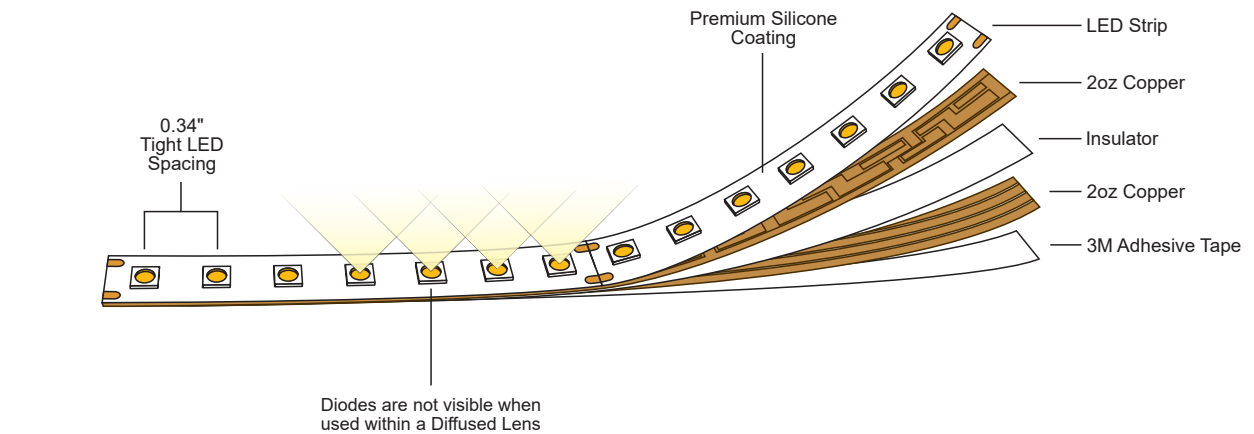
Product	Type
SS	CL
SS Stomp Strip	CL L-Connector CT T-Connector CX X-Connector CEC End Cap Connector

EXTRA PIN CONNECTORS

Extra soldering pin connectors. Male and female.











System	Voltage	Type
SS	ML	CON
SS Stomp Strip	FE Female Connector ML Male Connector	CON Connector White



INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V

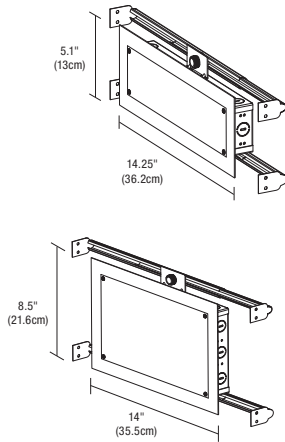
REV 12.14.20

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: DDTV-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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IN WALL MOUNTING OPTIONS



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.

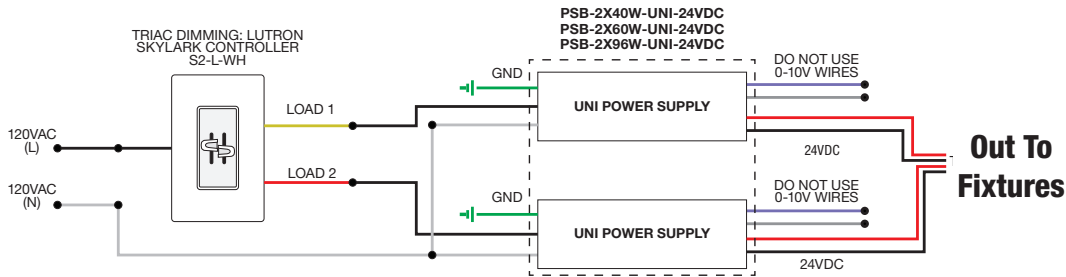
Ordering Codes 5.1 x 14.25 inch: PSB-40W-UNI-24VDC-IW
PSB-60W-UNI-24VDC-IW
PSB-96W-UNI-24VDC-IW

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

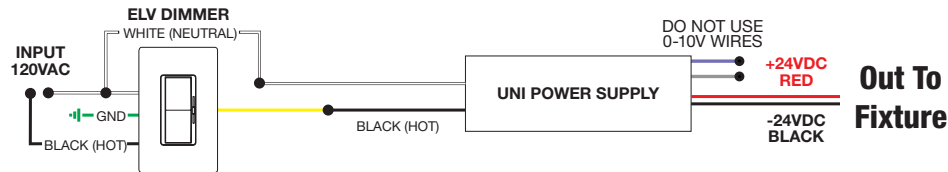
Application: Triac dimming for two power supplies, use for Static White, Dynamic/Tunable White

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



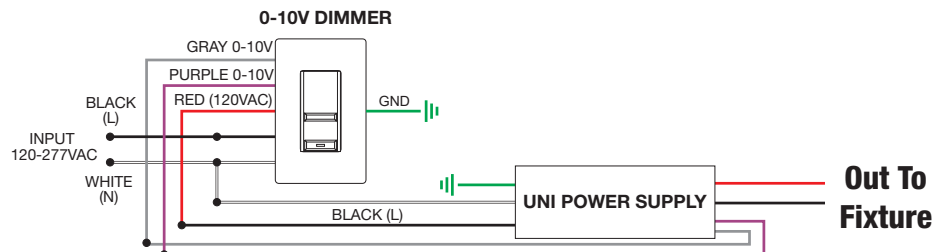
Application: ELV dimming for Static White and Warm Dim

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



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

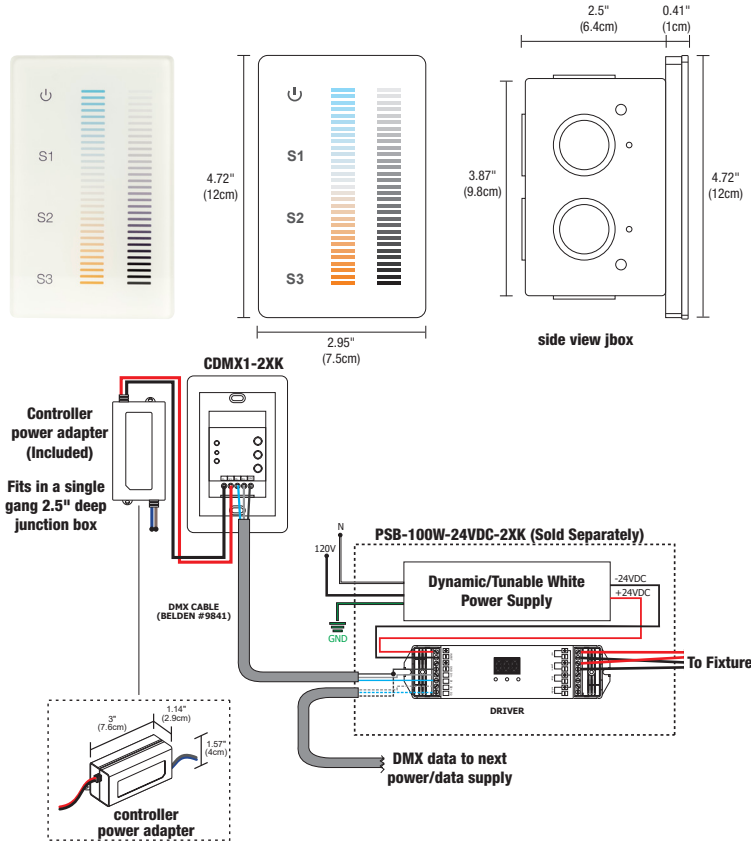


PROJECT		FIXTURE TYPE		DATE	
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DYNAMIC/TUNABLE WHITE CONTROLLER AND POWER SUPPLIES

24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DMX DRIVERS

REV 12.14.20



DESCRIPTION:

The Dynamic/Tunable White (**2K4K or 27K6**) Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Dynamic/Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K** (Sunset) to **4000K** (Cool White) or from **2700K** (Incandescent White) to **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of Dynamic White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

APPLICATIONS:

Indoor

OUTPUT SIGNAL:

USITT DMX 512 (1990)

INSTALLATION:

Fits in a single gang 2.5 inch deep junction box. Not compatible with multi-gang boxes.

LABELS:





ROHS, FCC, Damp Location, ETL/UL

POWER INPUT:

120-240VAC

Product	Type	Finish
CDMX1	2XK	WH
CDMX1 DMX Single Zone Touch Controller	2XK Tunable White	WH White

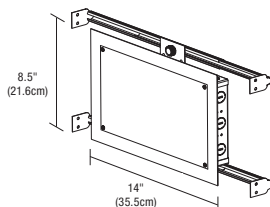
DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS*

ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
				
SPECIFICATIONS				
MAXIMUM LOAD OF LED STRIP LENGTH	100W 5 WATTS - 20FT MAX. 10 WATTS - 10FT MAX.	2X100W 5 WATTS 2 X 20FT MAX. 10 WATTS - 2 X 10FT MAX.	3X100W 5 WATTS 3 X 20FT MAX. 10 WATTS - 3 X 10FT MAX.	4X100W 5 WATTS 4 X 20FT MAX. 10 WATTS - 4 X 10FT MAX.
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

IN WALL MOUNTING OPTIONS



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 CONSTANT VOLTAGE REMOTE POWER SUPPLIES

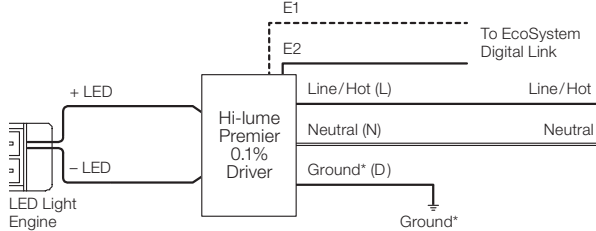
24VDC, LUTRON ECOSYSTEM

REV 12.14.20

LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†			
ORDERING CODES	L3D0-96W24V-U	2-WIRE ECOSYSTEM LTEA4U1UKL-CV240	3-WIRE ECOSYSTEM 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	•	•	•

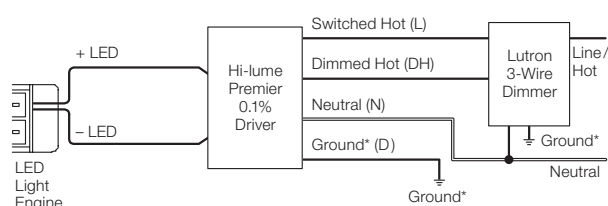
†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

2-Wire EcoSystem Wiring Diagram



LTEA4U1UKL-CV240

3-Wire Wiring Diagram






L3DA4U1UKL-CV240

PROJECT		FIXTURE TYPE		DATE	
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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

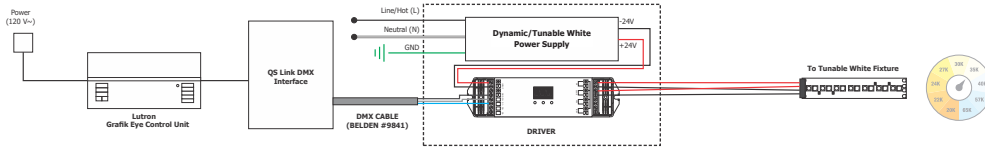
24VDC, LUTRON ECOSYSTEM

Dynamic/Tunable White uses one or two power supplies, dependent on the controller or dimmer(s) used. Lutron Hi-Lume® can be used in both single or dual power formats, dependent on the controller or dimmer(s).

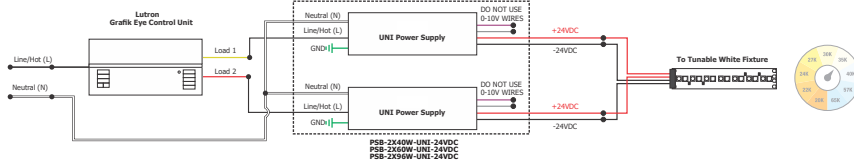
LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†			
ORDERING CODES	L3D0-96W24V-U	2-WIRE ECOSYSTEM LTEA4U1UKL-CV240	3-WIRE ECOSYSTEM L3DA4U1UKL-CV240
			
SPECIFICATIONS			
MAXIMUM LOAD	96W	5W-40W	5W-40W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	10.5" X 5.5" X 2"	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	•	•	•

*Tunable White Color Temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies.

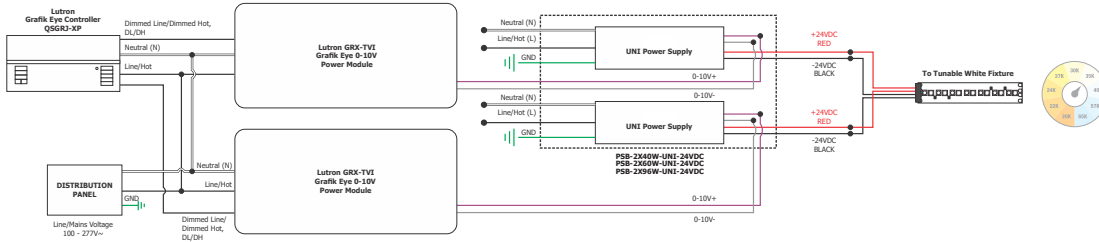
WIRING DIAGRAM: DMX Control with Lutron Grafik Eye Control Unit



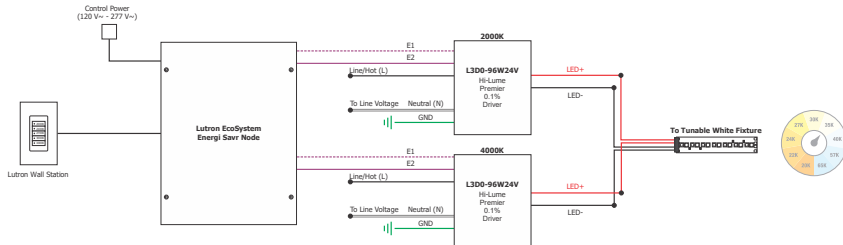
WIRING DIAGRAM: Line Voltage Dimming with Lutron Grafik Eye Control Unit



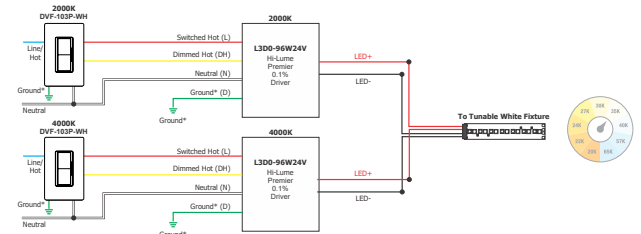
WIRING DIAGRAM: 0-10V Dimming with Lutron Grafik Eye Control Unit or Wall box controller



WIRING DIAGRAM: 2-Wire EcoSystem Panel



WIRING DIAGRAM: 3-Wire EcoSystem Wall Box



PROJECT	FIXTURE TYPE	DATE
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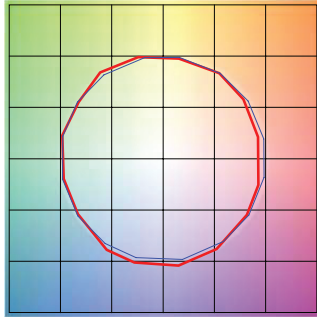
LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A 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: 90.5 | Rg: 99.9

Color Vector Graphic

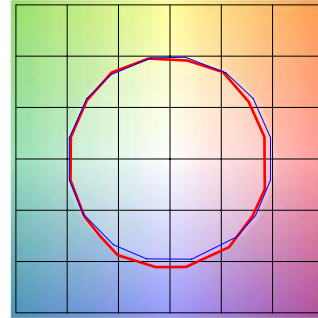


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	1.0%
2	90.1	-3.6%	3.7%
3	87.5	-0.5%	5.6%
4	93.9	-1.2%	1.3%
5	94.7	0.7%	2.1%
6	93.7	2.6%	0.7%
7	93.5	-1.5%	-2.2%
8	97.8	-0.4%	-0.2%
9	93.7	-1.5%	2.4%
10	90.8	-0.8%	4.9%
11	89.3	3.7%	5.4%
12	90.2	4.6%	1.0%
13	89.0	4.4%	-9.7%
14	75.4	0.6%	-15.1%
15	90.7	-1.7%	-5.0%
16	84.2	-4.4%	-9.1%

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

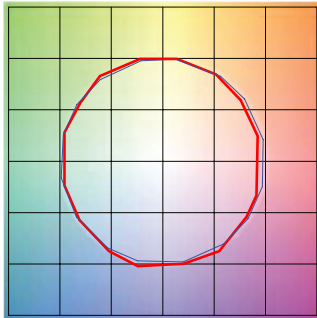


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

2700K | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

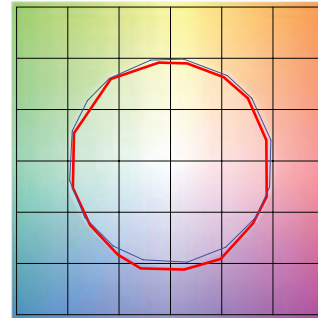


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

3000K | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

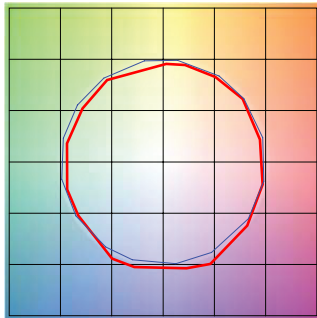


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

3500K | Rf: 88.1 | Rg: 97.1

Color Vector Graphic

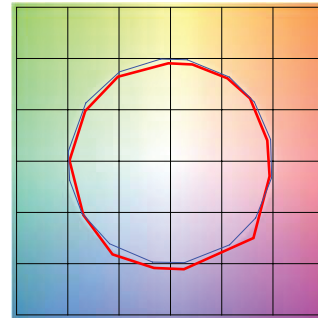


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

5700K | Rf: 87.6 | Rg: 98.0

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.9	-3.9%	1.5%
2	92.3	-1.7%	2.7%
3	91.0	-1.2%	2.4%
4	91.5	-1.2%	1.6%
5	86.2	-5.9%	-0.4%
6	93.5	-3.2%	-0.2%
7	93.1	-3.8%	0.6%
8	85.9	-4.6%	5.9%
9	83.6	-4.0%	12.7%
10	75.8	-0.6%	13.6%
11	80.2	4.3%	10.4%
12	83.4	3.4%	1.8%
13	90.8	5.0%	-2.0%
14	91.8	1.3%	-3.3%
15	79.4	8.6%	-12.7%
16	93.4	-2.7%	-0.2%

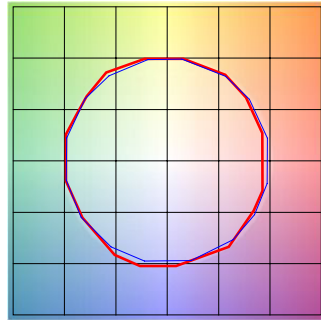
LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A 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.

2700D | Rf: 90.7 | Rg: 101.1

Color Vector Graphic

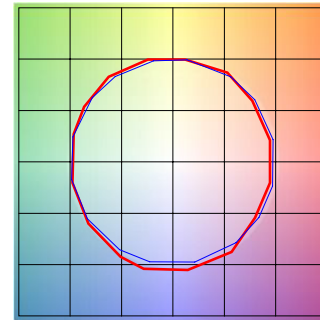


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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

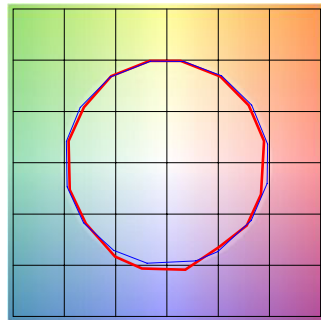


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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%

2000K ONLY (2K4K) | Rf: 90.6 | Rg: 98.5

Color Vector Graphic

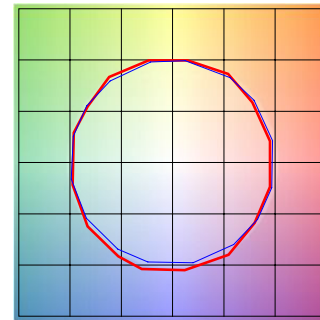


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.7	-5.5%	1.2%
2	88.7	-3.9%	4.2%
3	90.5	-1.5%	4.3%
4	95.0	-1.7%	0.8%
5	95.2	-0.2%	2.1%
6	94.2	1.6%	1.9%
7	95.9	-0.8%	-2.2%
8	95.5	-1.7%	1.3%
9	93.8	-1.4	2.6%
10	91.9	-0.7%	4.2%
11	91.3	3.6%	3.7%
12	91.2	4.2%	-1.0%
13	86.6	3.8%	-12.7%
14	67.2	-3.0%	-16.3%
15	84.9	-3.3%	-9.4%
16	84.2	-5.7%	-7.5%

3000K (2K4K) | Rf: 90.5 | Rg: 100.7

Color Vector Graphic

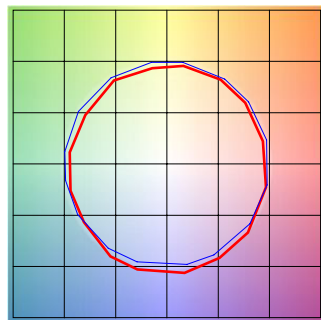


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.2%
2	92.4	-1.8%	2.7%
3	89.8	0.3%	4.5%
4	92.4	-1.7%	0.4%
5	93.3	-0.1%	1.4%
6	94.5	2.1%	-0.6%
7	91.0	-2.5%	0.3%
8	96.9	-0.8%	-0.2%
9	91.6	-0.9%	4.6%
10	86.7	0.7%	7.8%
11	86.3	3.8%	8.5%
12	88.3	6.1%	0.6%
13	90.9	3.1%	-5.2%
14	87.3	4.7%	-7.9%
15	92.1	-1.9%	-2.5%
16	84.5	-0.9%	-10.9%

4000K ONLY (2K4K) | Rf: 86.4 | Rg: 96.1

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-5.5%	1.3%
2	90.4	-3.0%	2.3%
3	89.8	-2.1%	3.6%
4	89.1	-3.4%	0.4%
5	88.5	-5.9%	0.1%
6	93.6	-3.0%	-0.4%
7	88.9	-6.2%	1.7%
8	87.3	-5.0%	4.9%
9	82.4	-3.6%	11.3%
10	77.4	-1.8%	12.7%
11	79.8	4.9%	11.4%
12	88.7	4.4%	2.7%
13	88.7	4.0%	-5.1%
14	91.2	2.2%	-3.8%
15	82.7	-0.1%	-9.2%
16	82.8	-2.2%	-7.6%