

# VERGE CORNER 24VDC PLASTER-IN LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 07.17.20



## DESCRIPTION

Verge Corner is an innovative design that comes from the family of Plaster-in 24VDC systems pioneered by PureEdge mounts directly to wall studs or ceiling joist, without any modification, and is recessed, then plastered into 5/8" or thicker drywall. Continuing to redefine the relationship between Lighting and Interior Design, the Verge system creates visually interesting and dramatic illumination by highlighting the inside Corners of two drywall surfaces such as ceiling, coves and skylights. Field-cuttable, Verge Corner is ordered in 1' increments up to 20', the slim plaster-in aluminum channel has a 4" paintable backer plate. Our Designer-grade High CRI Color Rendering LEDs are offered in several standard Color Temperatures: Static white 2200K-5700K, RGB, RGB+W, Warm Dim (**27D or 30D**) and, Dynamic/Tunable White (**2K4K**) as well as four wattage options of 5WDC, 6WDC, 10WDC, and 12WDC. Remote Power supplies are required and sold separately. Coordinate installation with electrical and drywall contractors. **PureEdge** is the Original Designer of 5/8" Drywall Lighting Products with the Most Experience in the industry. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send drawings to [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com). Designed by Gregory Kay.

## DESIGN NOTE

Verge Corner can be installed on multiple surfaces that form inside Corners, as well as in Coves, Windows and Skylights. Ambient and harmonious, the plaster-in LED system blends into 5/8" thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed precision and flexibility that transforms spaces into thoughtful and refined works of art.

## ORDERING

Verge Corner behind drywall with Adjustable Mounting Bars Requires Remote Power Supply (ordered separately) In-Wall Mounting Kits are available for select power supplies. Order in 1' increments (12") field-cuttable to any length.

Maximum Lengths before re-feeding:

- 5WDC - 20' (Static White, warm dim and 2K4K Only)
- 6WDC - 18' (RGB Only)
- 10WDC - 11' (Excludes RGB+W)
- 12WDC - 7' (RGB+W Only)

PureEdge is the Original Designer of 5/8" Drywall Products, Backed by Over 30 Years of Precision Manufacturing and Design.

System	Watts Per Foot	Length in Feet	Color Temperature	
<b>VGCO</b>	<b>5WDC</b>	<b>1-20FT</b>	<b>27K</b>	
<b>VGCO</b> Verge Corner	<b>5WDC</b> 2x2.5 Watts (20 ft Max) <b>6WDC</b> 2x3 Watts (16 ft Max) <b>10WDC</b> 2x5 Watts (10 ft Max) <b>12WDC</b> 2x6 Watts (7 ft Max)	<b>1-20FT</b>	<b>22K</b> 2200K Amber White <b>24K</b> 2400K Very Warm White <b>27K</b> 2700K Incandescent White <b>27D</b> 2700K Warm Dim (10WDC Only) <b>30K</b> 3000K Warm White <b>30D</b> 3000K Warm Dim (10WDC Only)	<b>35K</b> 3500K Neutral White <b>40K</b> 4000K Cool White <b>57K</b> 5700K Daylight White <b>2K4K</b> 2000K-4000K Tunable White (10WDC only) <b>RGB</b> Red, Green, and Blue (6WDC + 10WDC only) <b>RGBW</b> Red, Green, Blue, and 2000K White (12WDC only)

## APPLICATIONS

Indoor damp or dry locations only. Ideal for inside corners of drywall surfaces such as Walls and Ceilings, Coves, Windows and Skylights in Residential, Commercial, Retail and Hospitality environments.

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

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

\*In-Wall Mounting Kits available for select power supplies

\*\*Dynamic/Tunable White- Requires two dimmers (one for 2000K and one for 4000K) or use our proprietary Tunable White Controller CDMX-1 (pg 9)

## LAMP

The average LED Life is 50,000 hours.

WATTS PER FOOT	85+CRI 22K, 35K, 40K, 57K	90+CRI 2K4K	92+CRI 27D, 30D	95+CRI 24K, 27K, 30K	RGB	RGB+W
<b>5WDC</b> (2X2.5WDC)	•			•		
<b>6WDC</b> (2X2.6WDC)					•	
<b>10WDC</b> (2X4.4WDC)	•	•	•	•	•	
<b>12WDC</b> (2X6.3WDC)						•

Lumen values are based on the 3000K LED test.

## INCLUDED COMPONENTS

(2) Junction Boxes, Adjustable Mounting Bars, (2) Backer Plates, (2) Verge Corner Channels, Drywall Screws, (2) LED Soft Strips, and (2) Lenses

## COMPLIANCE

Title 24, ETL, Class 2, Damp Location, Made in USA. **1-hour fire rating uses Two pieces of Type X Gypsum board, for 2-Hour fire rating use Three pieces of Type X Gypsum board.**

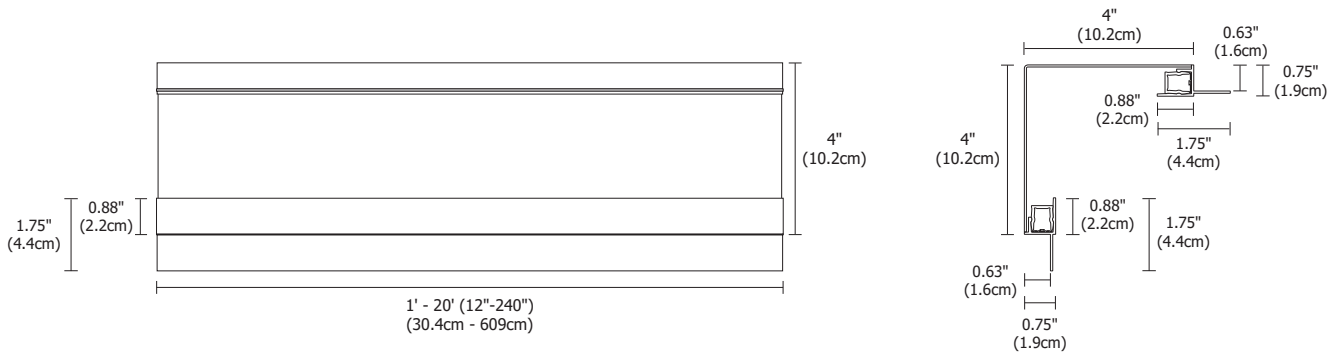
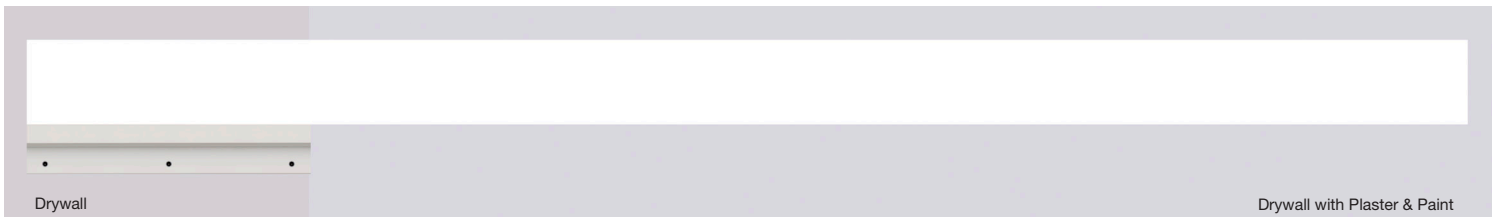
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### NOMINAL LAMP DATA: Lamp data for the Verge Corner 24VDC

		5WDC							
WATTS PER FOOT		2 x 2.5W (5 watts)							
COLOR TEMPERATURE		22K	24K	27K	30K	35K	40K	50K	57K
LUMENS PER FOOT (lm/ft)		180	201	219	240	274	298	308	317
LUMENS PER WATT (lm/w)		36	40	44	48	55	60	62	64
CRI		85+	95+	95+	95+	85+	85+	85+	85+

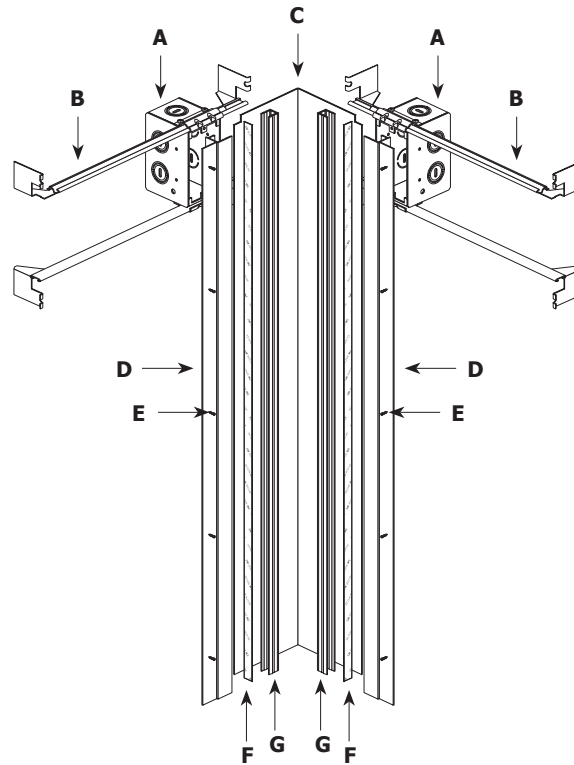
		10WDC									
WATTS PER FOOT		2 x 5W (10 watts)									
COLOR TEMPERATURE		22K	24K	27K	27D	30K	30D	35K	40K	50K	57K
LUMENS PER FOOT (lm/ft)		310	346	378	353	414	405	473	515	531	548
LUMENS PER WATT (lm/w)		35	39	43	40	47	42	54	59	60	62
CRI		85+	95+	95+	92+	95+	92+	85+	85+	85+	85+

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



PROJECT		FIXTURE TYPE		DATE	
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**INCLUDED COMPONENTS**



**A. JUNCTION BOX**

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 Backer Plate, and required at the beginning of each run.

**B. ADJUSTABLE MOUNTING BARS**

Provide flexibility for mounting in a variety of spaces. Verge Corner includes two sets of mounting hardware.

**C. BACKER PLATE**

4" paintable aluminum plates conceal junction box and reflect light.

**D. VERGE CHANNEL**

Two 5/8" deep extrusions each house a single row of LED Soft Strip.

**E. DRYWALL SCREWS**

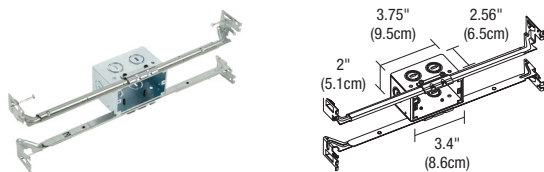
Secure channels to drywall and studs.

**F. LED SOFT STRIP**

Commercial-grade White or Dynamic Color Changing LED Soft Strip. See lamp data on for additional details. Standard Color Temperatures 22K-57K, Warm Dim (27D or 30D), Dynamic/Tunable White (2K4K), RGB, and RGB+W.

**G. LENS**

0.6" wide Diffused White lens projects a clean line of light without LED dots. Verge Corner includes two lenses.



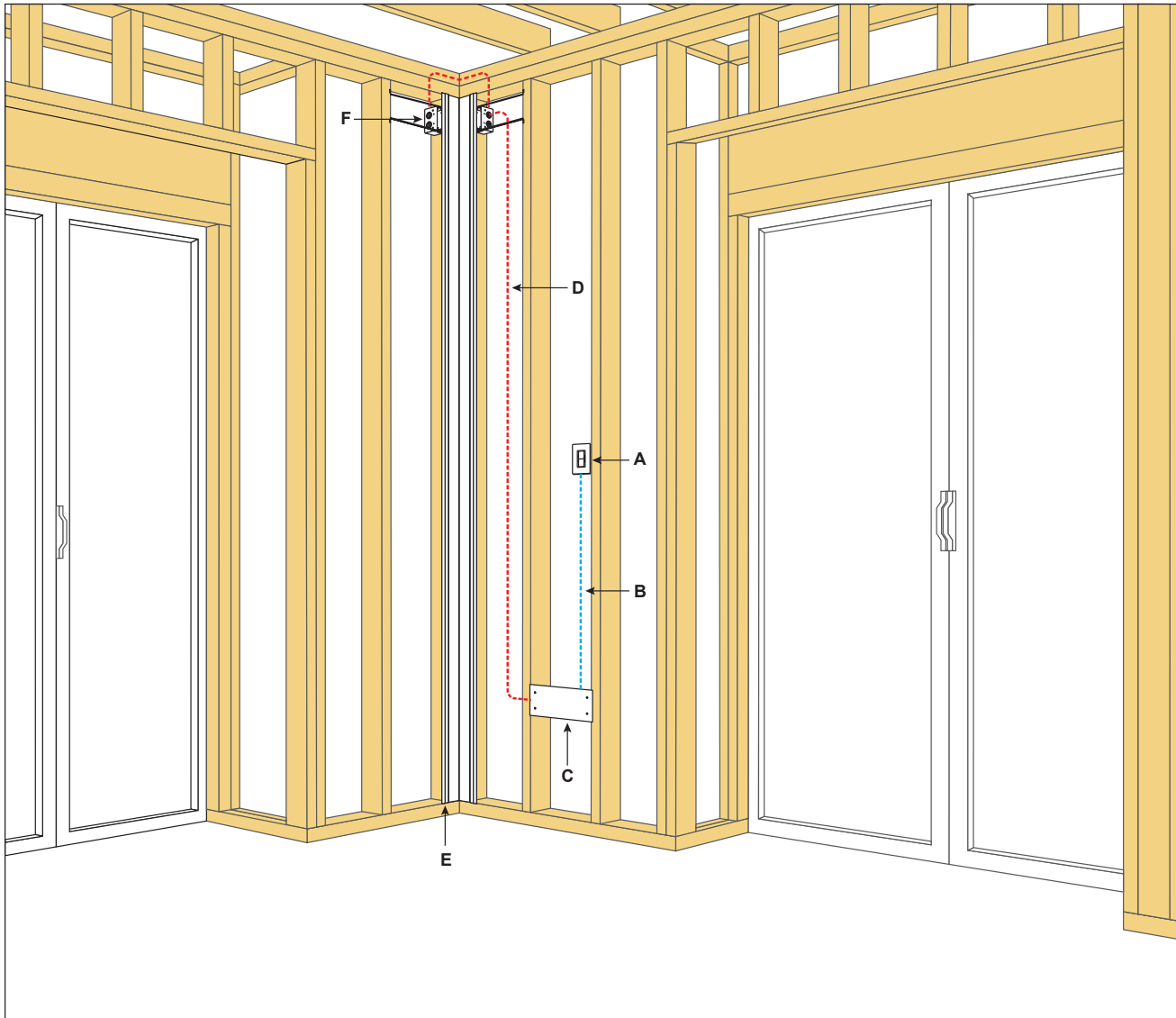
**JUNCTION BOX ROUGH-IN COMPONENT**

One Junction Box is included with Verge Wall and two Junction Boxes are included with Verge Corner. Order additional Junction Box(es) separately to rough-in electrical wiring before drywall installation. Quick shipment available.

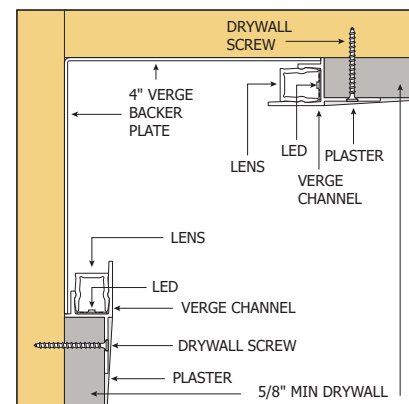
System	Size	Component
<b>VG</b>	<b>1RE</b>	<b>JBOX</b>
VG Verge	1RE 1" Rectangle	JBOX Junction Box
<small>*For RGB+W use VG-1RD-JBOX-RGBW</small>		

PROJECT	FIXTURE TYPE	DATE
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**INSTALLATION**



- A. DIMMER OR SWITCH**
- B. 120VAC WIRING**
- C. 120V/24VDC REMOTE POWER SUPPLY FOR IN-WALL MOUNTING KIT**
- D. 24VDC, CLASS 2 WIRING**
- E. VERGE CORNER CHANNEL**
- F. JUNCTION BOX**



PROJECT	FIXTURE TYPE	DATE
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**2 X 2.5 WATTS PER FOOT - 22K, 24K, 27K, 27D, 30K, 30D, 35K, 40K AND 57K STATIC WHITE**

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 3	11	2 x 27	21	2 x 51	31	2 x 75
2	2 x 5	12	2 x 29	22	2 x 54	32	2 x 78
3	2 x 8	13	2 x 32	23	2 x 56	33	2 x 80
4	2 x 10	14	2 x 34	24	2 x 58	34	2 x 82
5	2 x 13	15	2 x 37	25	2 x 61	35	2 x 85
6	2 x 15	16	2 x 39	26	2 x 63	36	2 x 87
7	2 x 17	17	2 x 41	27	2 x 66	37	2 x 90
8	2 x 20	18	2 x 44	28	2 x 68	38	2 x 92
9	2 x 22	19	2 x 46	29	2 x 70	39	2 x 94
10	2 x 25	20	2 x 48	30	2 x 73	40	2 x 96

**2 X 3 WATTS PER FOOT - RGB**

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 3	10	2 x 26	19	2 x 50	28	2 x 73
2	2 x 6	11	2 x 29	20	2 x 52	29	2 x 76
3	2 x 8	12	2 x 32	21	2 x 55	30	2 x 78
4	2 x 11	13	2 x 34	22	2 x 58	31	2 x 81
5	2 x 13	14	2 x 37	23	2 x 60	32	2 x 84
6	2 x 16	15	2 x 39	24	2 x 63	33	2 x 86
7	2 x 19	16	2 x 42	25	2 x 65	34	2 x 89
8	2 x 21	17	2 x 45	26	2 x 68	35	2 x 91
9	2 x 24	18	2 x 47	27	2 x 71		

**2 X 5 WATTS PER FOOT - 22K, 27K, 27D, 30K, 35K, 40K, 57K & RGB**

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 5	6	2 x 29	11	2 x 53	16	2 x 77
2	2 x 10	7	2 x 34	12	2 x 58	17	2 x 82
3	2 x 14	8	2 x 38	13	2 x 63	18	2 x 87
4	2 x 19	9	2 x 43	14	2 x 67	19	2 x 91
5	2 x 24	10	2 x 48	15	2 x 72	20	2 x 96

**2 X 5 WATTS PER FOOT - 2K4K TUNABLE WHITE**

LENGTH IN FEET	2K WATTS	4K WATTS	LENGTH IN FEET	2K WATTS	4K WATTS	LENGTH IN FEET	2K WATTS	4K WATTS
1	2 x 3	2 x 3	8	2 x 20	2 x 20	15	2 x 36	2 x 36
2	2 x 5	2 x 5	9	2 x 22	2 x 22	16	2 x 39	2 x 39
3	2 x 8	2 x 8	10	2 x 24	2 x 24	17	2 x 41	2 x 41
4	2 x 10	2 x 10	11	2 x 27	2 x 27	18	2 x 44	2 x 44
5	2 x 12	2 x 12	12	2 x 29	2 x 29	19	2 x 46	2 x 46
6	2 x 15	2 x 15	13	2 x 32	2 x 32	20	2 x 48	2 x 48
7	2 x 17	2 x 17	14	2 x 34	2 x 34			

**2 X 6 WATTS PER FOOT - RGB+W**









LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 6	5	2 x 30	9	2 x 54	13	2 x 78
2	2 x 12	6	2 x 36	10	2 x 60	14	2 x 84
3	2 x 18	7	2 x 42	11	2 x 66	15	2 x 90
4	2 x 24	8	2 x 48	12	2 x 72	16	2 x 96

PROJECT		FIXTURE TYPE		DATE	
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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

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

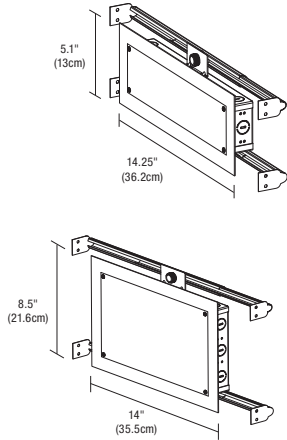
REV 07.17.20

UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS				
ORDERING CODE	PSB-40W-UNI-24VDC 	PSB-60W-UNI-24VDC 	PSB-2X40W-UNI-24VDC 	PSB-2X60W-UNI-24VDC 
<b>SPECIFICATIONS</b>				
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 
<b>SPECIFICATIONS</b>				
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
<b>ELV DIMMING &amp; CONTROLS</b>				
LUTRON DIVA: DVELV-300P	•	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•	•
LUTRON RADIO RA2: RRD-6NA	•	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•	•
<b>0-10 DIMMING &amp; CONTROLS</b>				
PHILIPS SUNRISE: SR1200ZTUNV	•	•	•	•
LUTRON DIVA: DVTW-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	•	•	•	•
<b>TRIAC DIMMING &amp; CONTROLS</b>				
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.

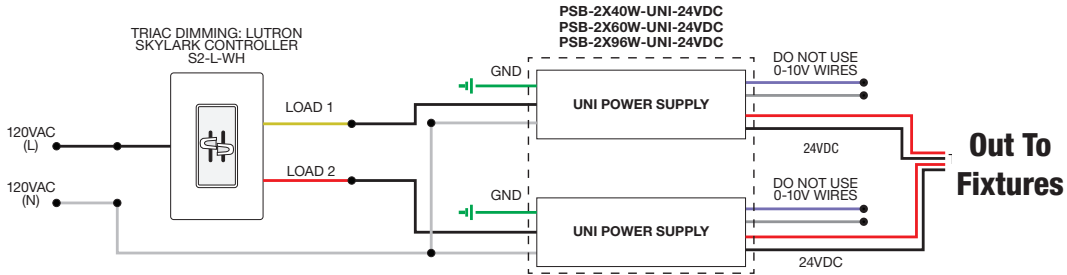
**Ordering Codes 5.1 x 14.25 inch:** PSB-40W-UNI-24VDC-IW  
PSB-60W-UNI-24VDC-IW  
PSB-96W-UNI-24VDC-IW

**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**

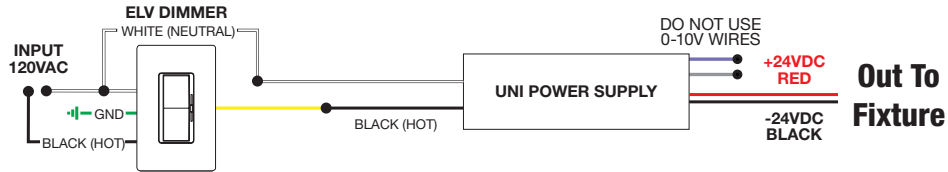
**Application:** Triac dimming for two power supplies, use for Static White, Dynamic/Tunable White 2000K-4000K

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



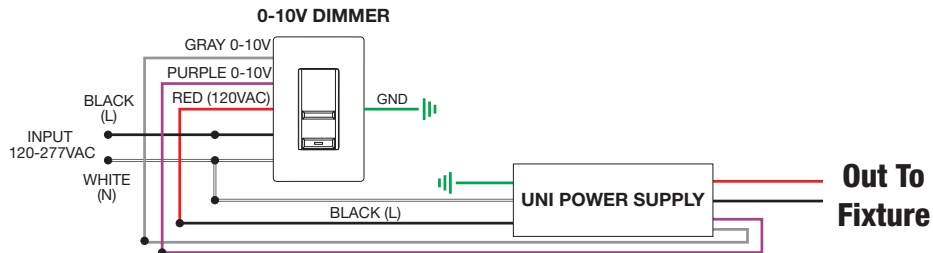
**Application:** ELV dimming for Static White and Warm Dim

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

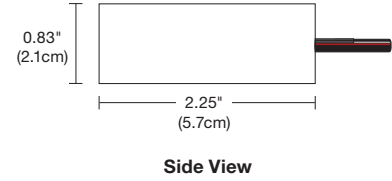
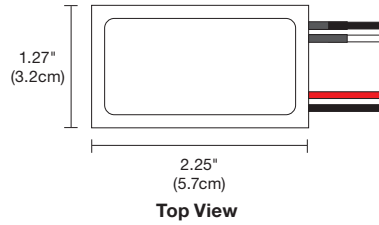
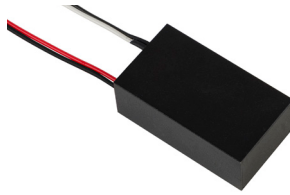


**Application:** 0-10V dimming for Static White

**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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**DESCRIPTION**

Compact, lightweight remote electronic 60W/24V LED Power Supply\* converts standard 120VAC voltage to 24VDC and features built-in short-circuit protection. The low voltage output may be dimmed using an electronic low voltage dimmer. The Power Supply is certified to be used inside a standard Junction Box enclosure. Power Supply features short circuit and overload protection. Indoor applications only.

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

**POWER INPUT** 120 volts AC, 60Hz

**POWER OUTPUT** Class 2; 24 volts DC 2.5A 60 watt maximum

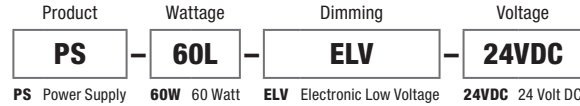
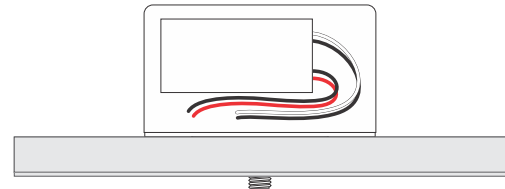
**DIMENSIONS** 2.25" x 1.25" x 0.83"

**DIMMER TYPE** Electronic Low Voltage Dimmer Lutron: Diva #DVELV-300P; Skylark #SELV-300P; Maestro #MAELV-600

**APPLICATIONS**

Indoor\*

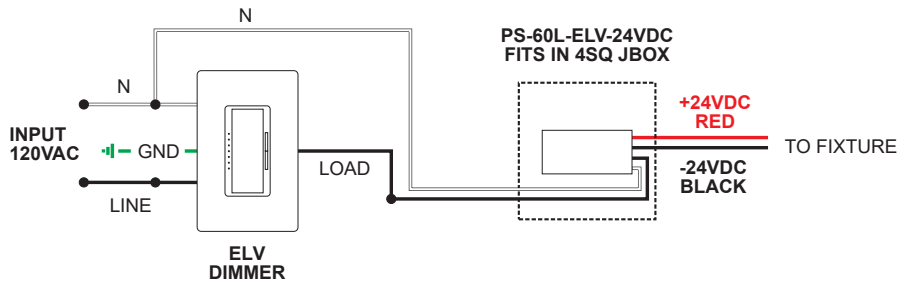
To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.



**SAMPLE WIRING DIAGRAMS 24VDC ELV**

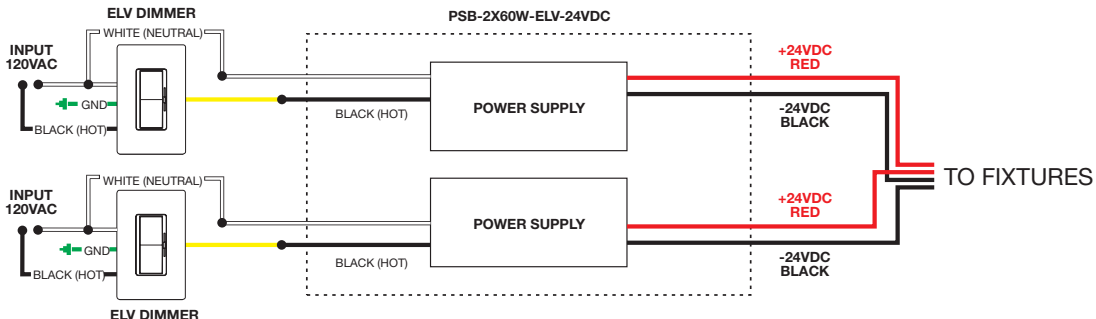
**Application:** ELV dimming for Static White

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



**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

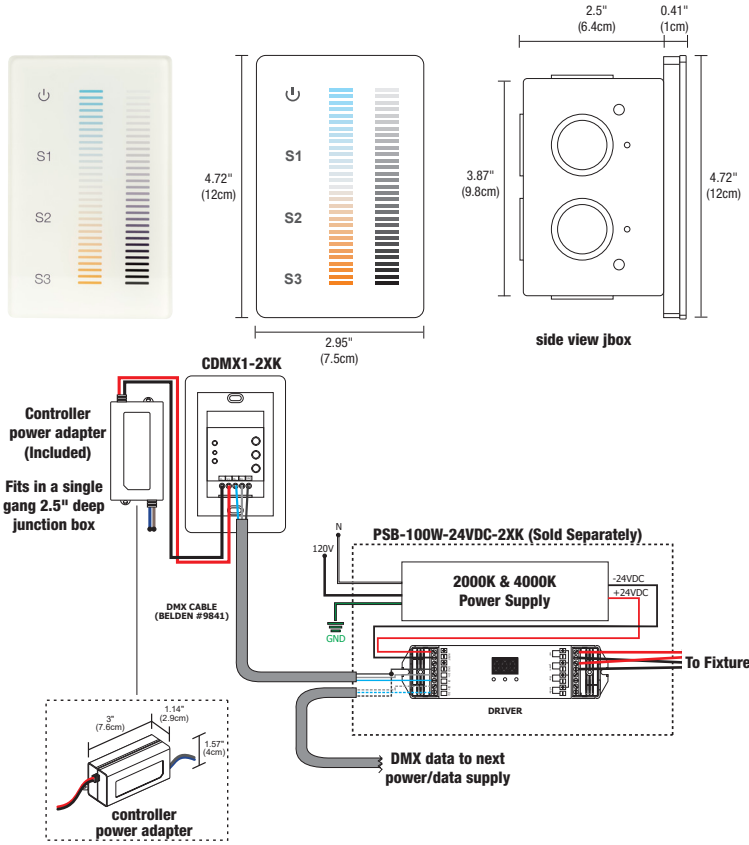


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# DYNAMIC/TUNABLE WHITE CONTROLLER AND POWER SUPPLIES

## 24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DMX DRIVERS



**DESCRIPTION:**

The Dynamic/Tunable White (2K4K) 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)** 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

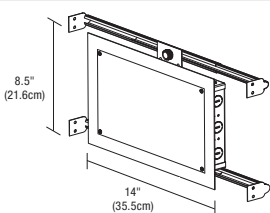
Product	Type	Finish
<b>CDMX1</b>	<b>2XK</b>	<b>WH</b>
CDMX1 DMX Single Zone Touch Controller	2XK 2 X Kelvin	WH White

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				
<b>MAXIMUM LOAD OF LED STRIP LENGTH</b>	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.
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	12.4" X 6.48" X 2.18"	14" X 10" X 3"	17" X 10" X 3"	17" X 10" X 3"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>IN-WALL MOUNTING</b>	PSB-100W-24VDC-2XK-IW	NA	NA	NA
DMX DYNAMIC/TUNABLE WHITE DIMMING & CONTROLS				
<b>TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)</b>	•	•	•	•

- 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**



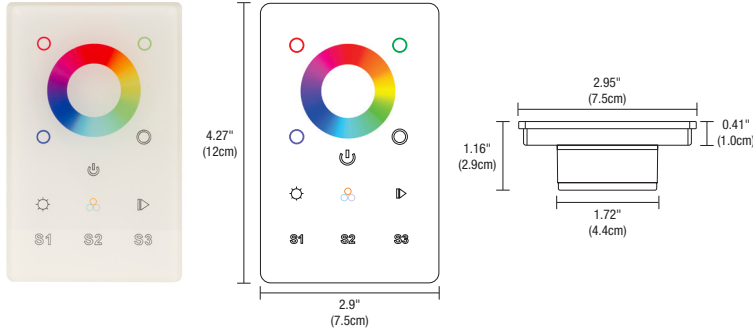
**8.5 x 14 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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

PROJECT		FIXTURE TYPE		DATE	
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# INDOOR DMX REMOTE POWER SUPPLIES

24VDC 1-ZONE DIMMER WITH DYNAMIC COLOR CHANGING DMX 512 PROTOCOL RGB AND RGBW



**Description:**

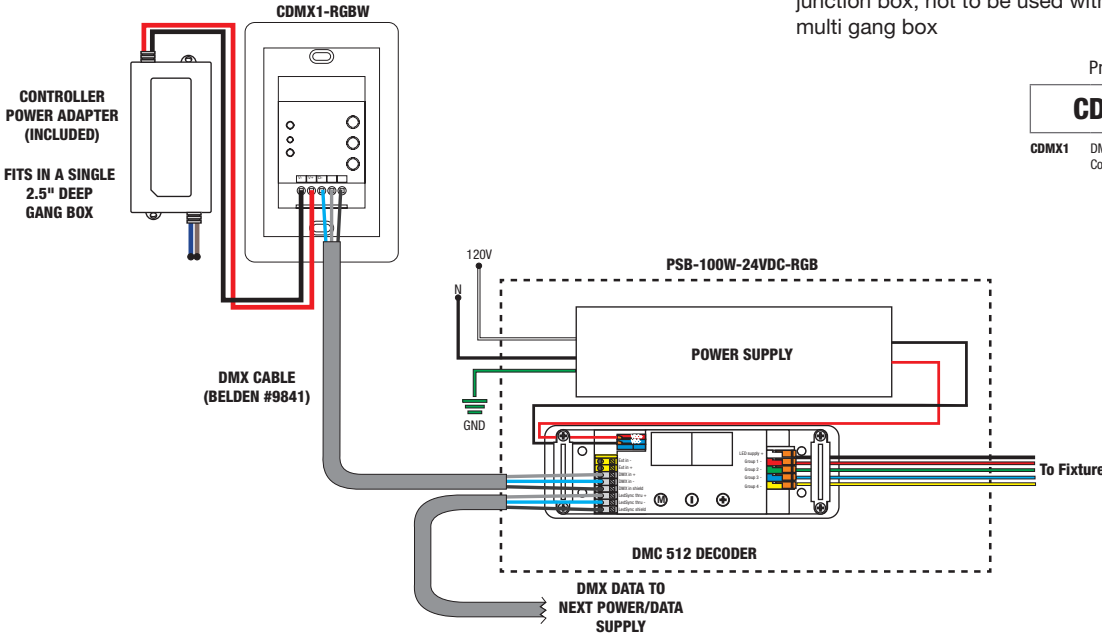
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications 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)

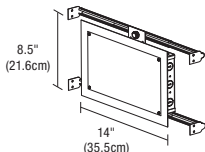


Product	Type	Finish
<b>CDMX1</b>	<b>RGBW</b>	<b>WH</b>
CDMX1 DMX 1 Zone Touch Controller	RGBW RGB & RGBW	WH White

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

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



**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.

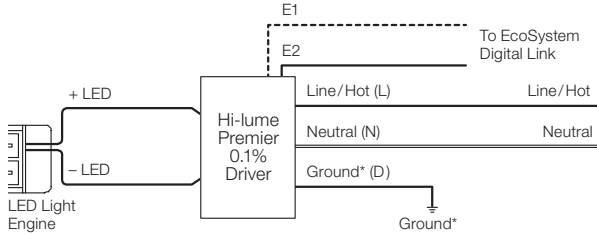
**ORDERING CODES:** PSB-100W-24VDC-RGB-IW

PROJECT	FIXTURE TYPE	DATE
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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	•	•	•

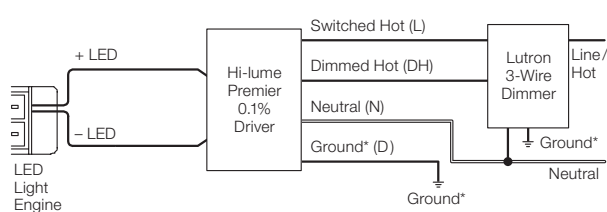
†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

2-Wire EcoSystem Wiring Diagram



LTEA4U1UKL-CV240

3-Wire Wiring Diagram



L3DA4U1UKL-CV240

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

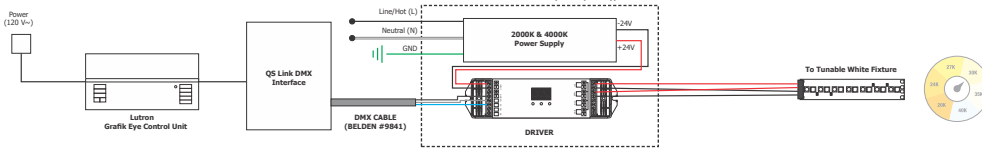
†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

\*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.

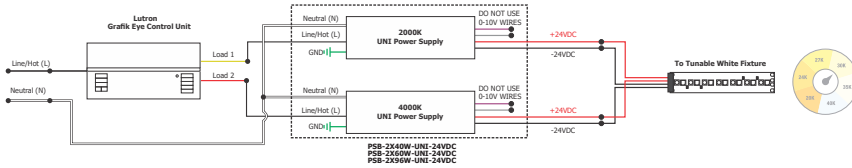
\*\*Tunable White (2K4K) uses one or two power supplies, dependent on the controller or dimmer(s) used.

Lutron Hi-Lume® can be used in both single or dual power formats, dependent on the controller or dimmer(s). Specify amount of Power Supplies based on this.

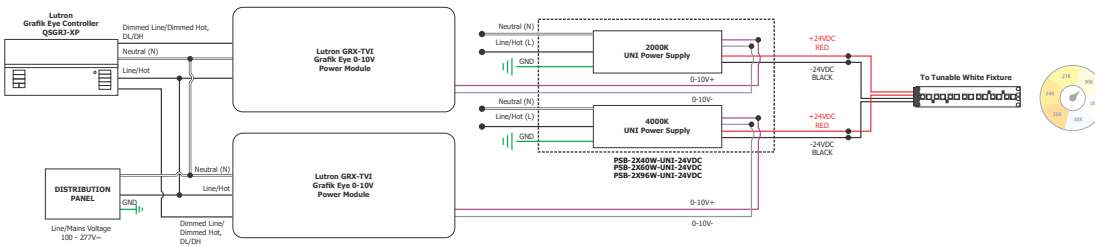
### WIRING DIAGRAM: DMX Control with Lutron Grafik Eye Control Unit



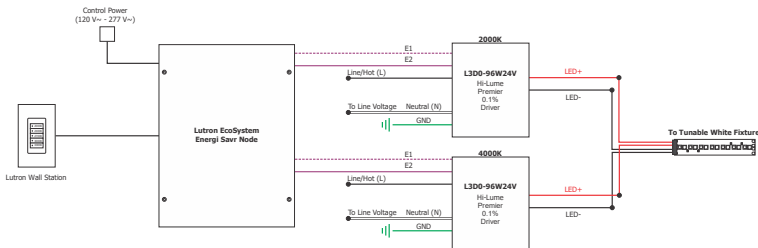
### WIRING DIAGRAM: Line Voltage Dimming with Lutron Grafik Eye Control Unit



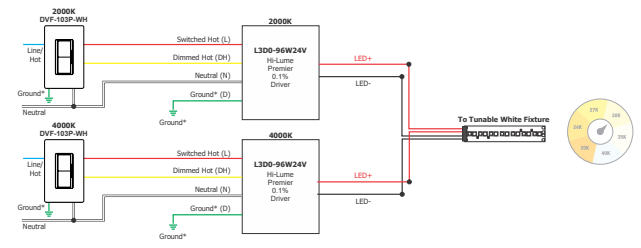
### WIRING DIAGRAM: 0-10V Dimming with Lutron Grafik Eye Control Unit or Wall box controller



### WIRING DIAGRAM: 2-Wire EcoSystem Panel



### WIRING DIAGRAM: 3-Wire EcoSystem Wall Box



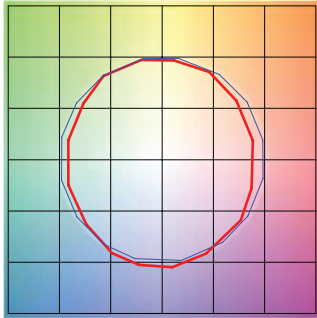
PROJECT	FIXTURE TYPE	DATE
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# CEILING TM30 DATA

## PLASTER-IN LED SYSTEM

**TM-30-15 DATA:** The data below is for SS5C and SS10C 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.

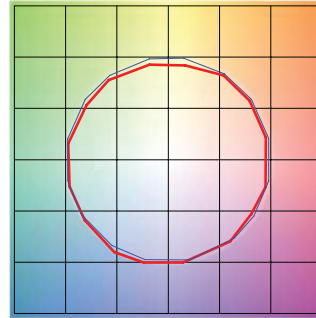
**2200K** | Rf: 83.9 | Rg: 94.9  
Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	78.8	-9.5%	1.3%
2	80.7	-7.8%	6.7%
3	78.2	-3.3%	9.4%
4	89.7	-2.8%	3.6%
5	93.2	-0.8%	2.6%
6	93.0	-0.6%	-0.7%
7	87.7	-5.9%	-3.5%
8	89.2	-6.8%	1.9%
9	83.4	-5.6%	6.0%
10	79.3	-3.7%	10.8%
11	81.4	2.9%	11.1%
12	84.9	5.3%	4.9%
13	88.1	4.9%	-10.1%
14	68.1	0.1%	-19.5%
15	86.0	-3.3%	-7.3%
16	76.4	-8.9%	-11.7%

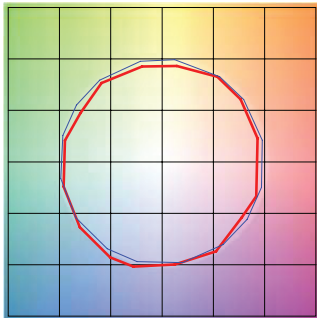
**2400K** | Rf: 91.2 | Rg: 96.8  
Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	92.0	-2.4%	1.5%
2	94.7	-2.1%	0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89.0	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

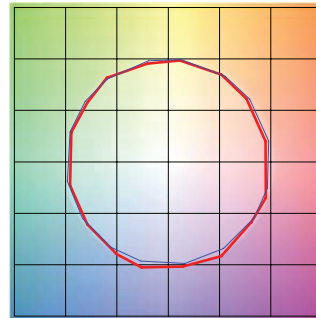
**2700K** | Rf: 87.7 | Rg: 96.1  
Color Vector Graphic



■ Test ■ Reference

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

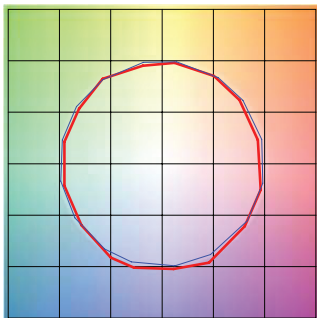
**3000K** | Rf: 88.1 | Rg: 99.7  
Color Vector Graphic



■ Test ■ Reference

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

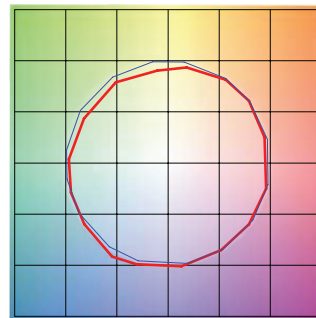
**3500K** | Rf: 86.1 | Rg: 95.5  
Color Vector Graphic



■ Test ■ Reference

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

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



■ Test ■ Reference

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

PROJECT	FIXTURE TYPE	DATE
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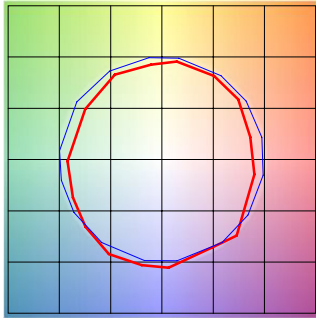
# CEILING TM30 DATA

## PLASTER-IN LED SYSTEM

**TM-30-15 DATA:** The data below is for SS5C and SS10C 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

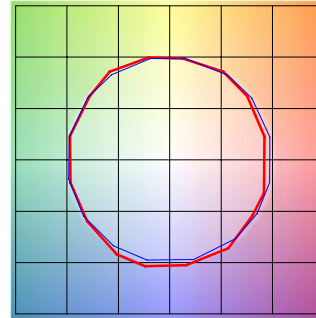


■ Test ■ Reference

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

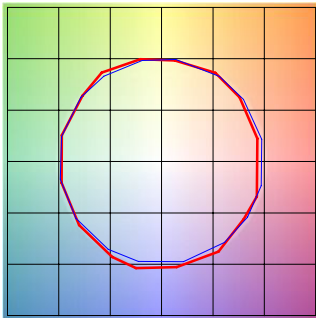


■ Test ■ Reference

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

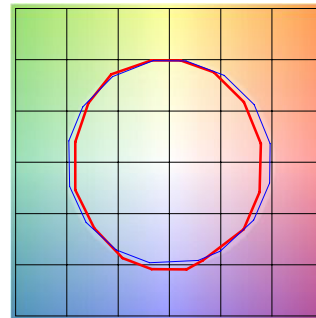


■ Test ■ Reference

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%

**2000K ONLY (2K4K)** | Rf: 84.3 | Rg: 96.9

Color Vector Graphic

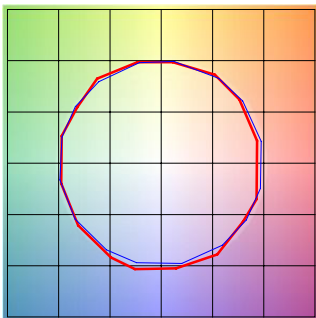


■ Test ■ Reference

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

**3000K (2K4K)** | Rf: 90.2 | Rg: 101.4

Color Vector Graphic

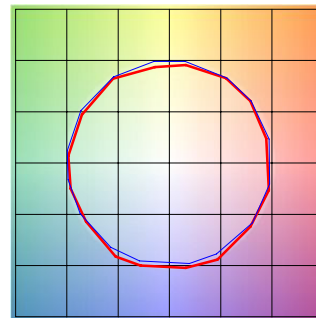


■ Test ■ Reference

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

**4000K ONLY (2K4K)** | Rf: 89.6 | Rg: 99.1

Color Vector Graphic



■ Test ■ Reference

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

PROJECT	FIXTURE TYPE	DATE
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