

# TRULINE TRUQUAD 1A

## 24VDC PLASTER-IN LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.06.21



### DESCRIPTION

TruQuad 1A Complete Fixture, is a versatile 24VDC linear plaster-in LED system that Recesses within 5/8" drywall, without any joist modification producing clean, glare-free illumination without any visible diodes. Redefining the relationship between Lighting and Interior Design, this Innovative and highly Efficient system blends seamlessly into the drywall, becoming part of the Architecture. Order in 1" increments from 6"- 480". Truline TruQuad can be mounted on walls and ceilings and is suitable for damp locations. The slim extrusions, LED strips, and lenses may be secured to studs that are spaced 13"-24" apart, or between studs with mounting clips provided. Use with PureEdge Soft Strip, with Designer-grade High **CRI** Color Rendering LEDs offered in a multitude of Color Temperatures, Static White 2000K-5700K, RGB, RGB+W, Warm Dim (**27D and 30D**) and Tunable White (**2K6K and 27K6**) as well as three wattage options of 2WDC, 5WDC, 6WDC and 7WDC. Coordinate installation with electrician and drywall contractors. Includes a 5-year pro-rated warranty.

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

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

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

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

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

### MAXIMUM LENGTHS BEFORE RE-FEEDING:

- 2WDC - 40'
- 5WDC - 20'
- 6WDC - 16'
- 7WDC - 12'

### DESIGN NOTE

TruQuad can be installed on a single surface (wall or ceiling) and allows for the creation of personalized square or rectangular configurations. LED Soft Strip mounts to the inner wall of the extrusion, wrapping continuously to create seamless illumination. For custom designs and quotes, send drawings to [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### LAMP

- 7 Static White Color Temperatures **22K-57K**
- Warm Dim: **27D** and **30D** dim down to 1900K, resembling incandescent light sources
- Tunable White: **2K6K** and **27K6** allow for independent control of color temperature and dimming
- Average life: 50,000 hours

### INCLUDED COMPONENTS

TruLine 1A Channel(s), Power Channel Connector(s) with Junction Box, Channel Joiners, Mounting Straps, Drywall Screws, LED Soft Strip, and Lens(es)

### APPLICATIONS

Designed for any Indoor space with drywall, including Damp locations. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

### 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.**

PureEdge is the Original Designer of 5/8" Drywall Lighting Products with the Most Experience in the industry.

PROJECT	FIXTURE TYPE	DATE
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# TRULINE TRUQUAD 1A

## 24VDC PLASTER-IN LED SYSTEM

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**Pure Modular System**

<b>TL1A</b>	<b>2W</b>	<b>6 x 480</b>	<b>27K</b>
<b>TL1A</b> TruLine 1A	<b>2W</b> 2.5 Watts (480" Max) <b>5W</b> 5 Watts (240" Max) <b>6W</b> 6.3 Watts (192" Max) <b>7W</b> 7.5 Watts (144" Max)	6"- 480" (1" increments) per side	<b>20K</b> 2000K Sunset White <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 / Dim-To-Warm (5W Only) <b>30K</b> 3000K Warm White <b>30D</b> 3000K Warm Dim / Dim-To-Warm (5W Only) <b>35K</b> 3500K Neutral White <b>40K</b> 4000K Cool White <b>57K</b> 5700K Daylight White <b>RGB</b> Red/Green/Blue Dynamic Color Changing (5W Only) <b>RGBW</b> Red/Green/Blue+ White (2000K) Dynamic Color Changing (6W Only)

**Stomp Strip System**

<b>TL1A</b>	<b>2W</b>	<b>6 x 480</b>	<b>ST27K</b>
<b>TL1A</b> TruLine 1A	<b>2W</b> 2.5 Watts (480" Max) <b>5W</b> 5 Watts (240" Max) <b>7W</b> 7.5 Watts (144" Max)	6"- 480" (1" increments) per side	<b>ST22K</b> 2200K Amber White <b>ST24K</b> 2400K Very Warm White <b>ST27K</b> 2700K Incandescent White <b>ST27D</b> 2700K Warm Dim / Dim-To-Warm (5W Only) <b>ST30K</b> 3000K Warm White <b>ST30D</b> 3000K Warm Dim / Dim-To-Warm (5W Only) <b>ST35K</b> 3500K Neutral White <b>ST40K</b> 4000K Cool White <b>ST57K</b> 5700K Daylight White <b>ST2K6K</b> Tunable White 2000K - 6500K <b>ST27K6</b> Tunable White 2700K - 6500K

**NOMINAL LAMP DATA - PURE MODULAR STRIP** The average LED Life is 50,000 hours.

WATTS PER FOOT	PURE MODULAR STRIP																						
	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)	161	179	197	215	247	268	285	279	309	340	421	372	421	426	463	492	456	506	556	608	696	756	805
LUMENS PER WATT (lm/w)	65	72	79	86	99	107	114	63	70	77	88	84	88	97	105	112	62	69	76	83	95	104	110
CRI	85+	90+	95+	95+	85+	85+	85+	85+	90+	95+	92+	95+	92+	85+	85+	85+	85+	90+	95+	95+	85+	85+	85+

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

**NOMINAL LAMP DATA - STOMP STRIP** The average LED Life is 50,000 hours.

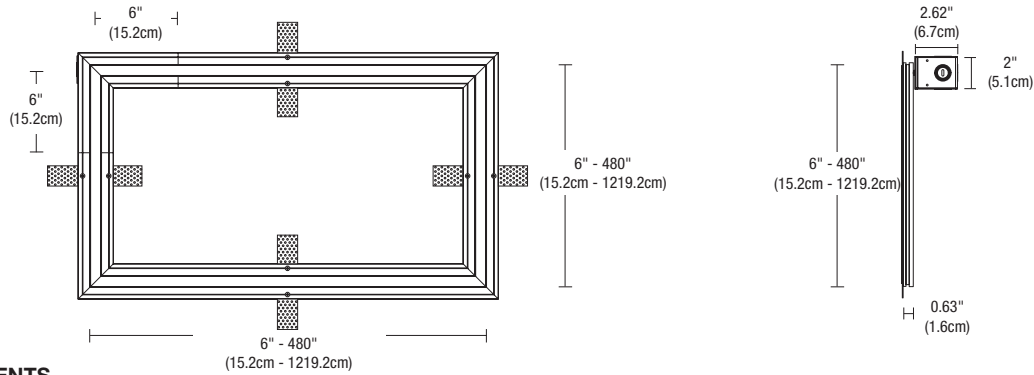
WATTS PER FOOT	STOMP STRIP																						
	2.5W								4.4W								7.5W						
COLOR TEMPERATURE	22K	24K	27K	30K	35K	40K	57K	22K	24K	27K	27D*	30K	30D*	35K	40K	57K	22K	24K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	137	151	166	182	208	227	241	238	262	289	369	316	376	363	395	420	388	428	472	516	592	644	684
LUMENS PER WATT (lm/w)	55	60	66	73	83	91	96	54	60	66	77	72	78	83	90	95	53	59	65	71	81	88	94
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)

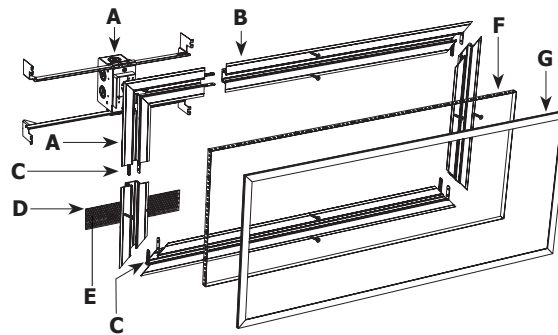
WATTS PER FOOT	2K6K (2000K-6500K)										27K6 (2700K-6500K)									
	4.4W										4.4W									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K				
LUMENS PER FOOT (lm/ft)	246	256	266	276	286	306	328	331	336	274	280	291	301	298	296	295				
LUMENS PER WATT (lm/w)	53	53	55	57	59	64	68	69	73	69	61	63	66	65	64	74				
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	92+	95+	93+	93+				

WATTS PER FOOT	2K6K (2000K-6500K)										27K6 (2700K-6500K)									
	7.5W										7.5W									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K				
LUMENS PER FOOT (lm/ft)	342	358	374	390	406	438	461	466	470	370	379	393	407	402	399	398				
LUMENS PER WATT (lm/w)	53	50	52	54	56	61	64	65	73	58	53	55	57	56	55	62				
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+				

PROJECT		FIXTURE TYPE		DATE	
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**INCLUDED COMPONENTS**



**A. POWER CHANNEL CONNECTORS WITH JUNCTION BOX**

TruQuad includes 1, 2 or 4 L-Picture Frame Power Channel Connectors based on max wattage of design. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside Junction box. Junction Box opening is covered by the channel and comes with Adjustable Mounting Bars. Required at the beginning of each run and necessary to rough-in electrical before TruQuad installation.

**E. DRYWALL SCREW**

Secures channel to drywall and stud.

**B. TRUQUAD 1A CHANNEL**

5/8" deep extrusion house for a single row of LED Soft Strip.

**F. LED SOFT STRIP**

Commercial-grade white or dynamic color-changing LED Soft Strip.

**C. CHANNEL JOINERS**

Channel Joiners ship as a pair to connect two channels together. Additional channel joiners may be necessary based on lighting design.

**G. LENS**

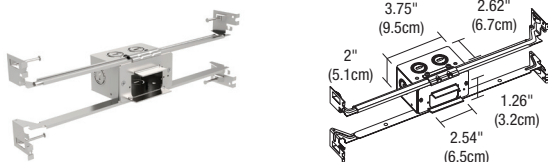
0.8" wide diffused lens projects a clean line of light without pixelation.

**D. MOUNTING STRAP**

Secures channel to drywall when wall stud is unavailable.

**JUNCTION BOX ROUGH-IN COMPONENT**

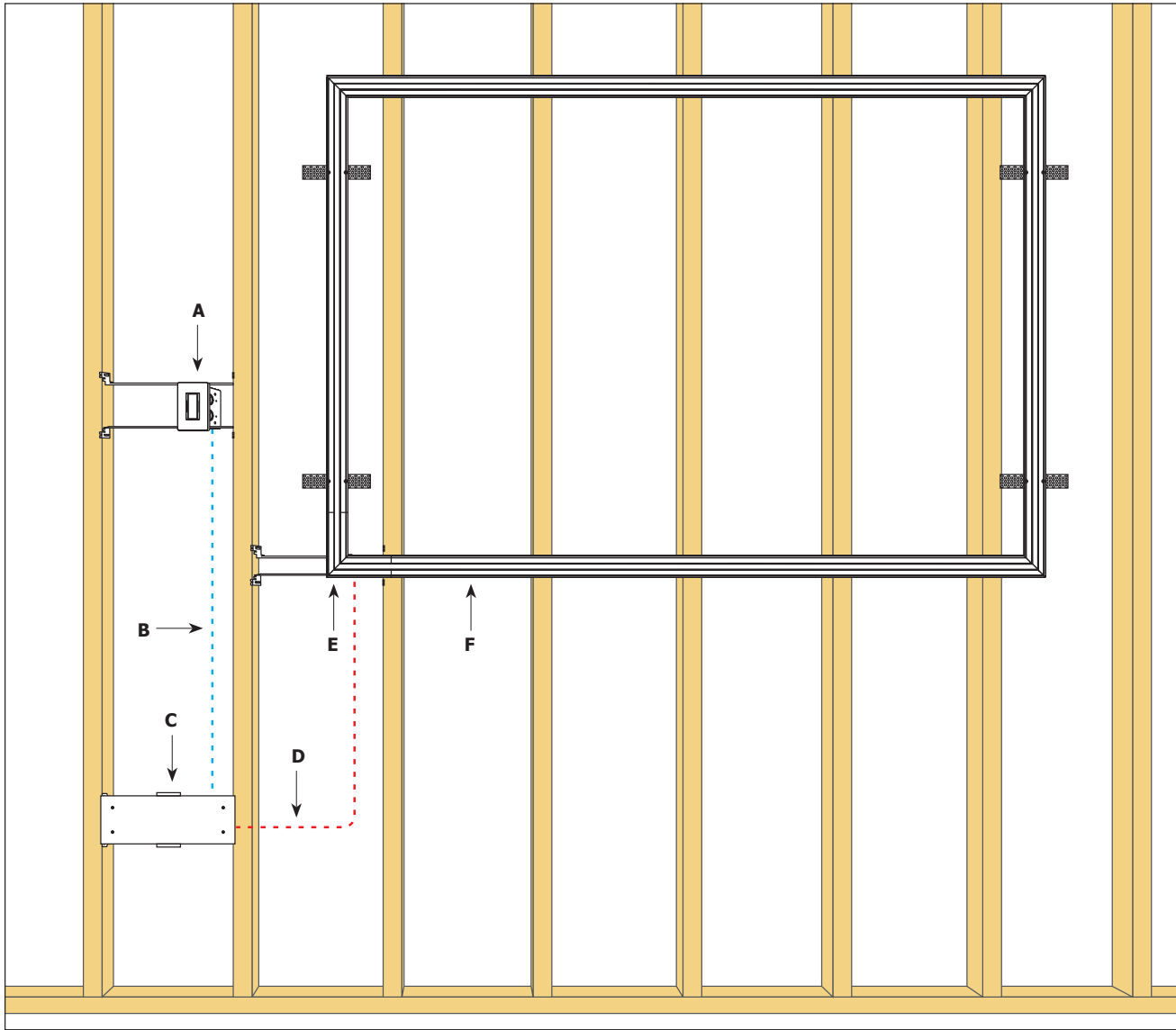
One Junction Box is included per power feed with TruQuad 1A. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available. See DIY Spec Sheet for all components.



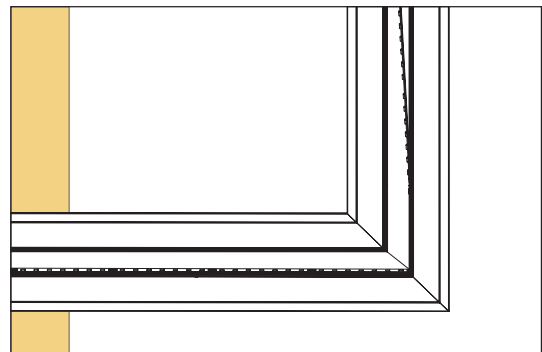
System	Size	Component
<b>TL1A</b>	<b>1RE</b>	<b>JBOX</b>
TL1A TruLine 1A	1RE 1" Rectangle	JBOX Junction Box

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**INSTALLATION**



- A. DIMMER OR SWITCH**
- B. 120VAC WIRING**
- C. 120V/24VDC REMOTE POWER SUPPLY WITH IN-WALL MOUNTING KIT**
- D. 24VDC, CLASS 2 WIRING**
- E. L-PICTURE FRAME POWER CHANNEL CONNECTOR WITH JUNCTION BOX**
- F. TruLine CHANNEL, LENS, & LED SOFT STRIP**



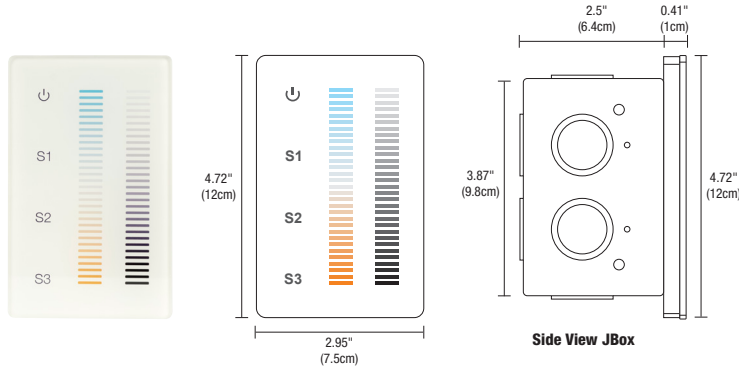
LEDs mounted on the side of the Channel for Picture Frame Installation (L-Connector)

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# TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES

24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

REV 10.06.21



**DESCRIPTION:**

The Tunable White 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 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 **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of 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:**

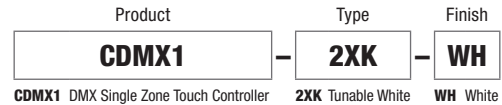
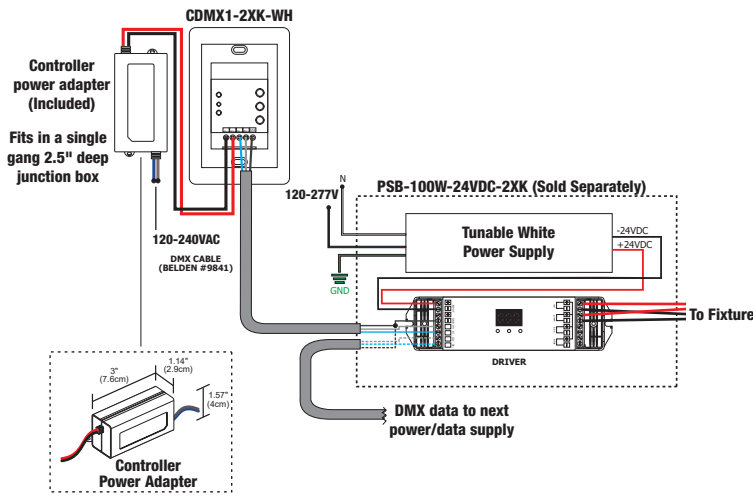
Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

**LABELS:**

ROHS, FCC, Damp Location, ETL/UL

**POWER INPUT:**

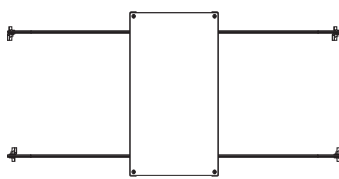
120-240VAC



COLOR CHANGING (DMX) POWER SUPPLIES				
ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
<b>SPECIFICATIONS</b>				
<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>T-BAR MOUNTING</b>	PSB-100W-24VDC-2XK-TB	PSB-2X100W-24VDC-2XK-TB	PSB-3X100W-24VDC-2XK-TB	PSB-4X100W-24VDC-2XK-TB
<b>IN-WALL MOUNTING</b>	PSB-100W-24VDC-2XK-IW	NA	NA	NA
<b>DMX TUNABLE WHITE DIMMING &amp; CONTROLS</b>				
<b>TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)</b>	•	•	•	•

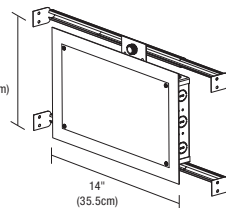
- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90



**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes:**  
 PSB-100W-24VDC-2XK-TB  
 PSB-2x100W-24VDC-2XK-TB  
 PSB-3x100W-24VDC-2XK-TB  
 PSB-4x100W-24VDC-2XK-TB



**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-2XK-IW

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

## UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

<b>ORDERING CODE</b>	<b>PSB-40W-UNI-24VDC</b> 	<b>PSB-60W-UNI-24VDC</b> 	<b>PSB-2X40W-UNI-24VDC</b> 	<b>PSB-2X60W-UNI-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	40W	60W	2X40W	2X60W
<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 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"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	<b>PSB-40W-UNI-24VDC-TB</b>	<b>PSB-60W-UNI-24VDC-TB</b>	<b>PSB-2X40W-UNI-24VDC-TB</b>	<b>PSB-2X60W-UNI-24VDC-TB</b>
<b>IN-WALL MOUNTING</b>	<b>PSB-40W-UNI-24VDC-IW</b>	<b>PSB-60W-UNI-24VDC-IW</b>	<b>PSB-2X40W-UNI-24VDC-IW</b>	<b>PSB-2X60W-UNI-24VDC-IW</b>

## UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

<b>ORDERING CODE</b>	<b>PSB-96W-UNI-24VDC</b> 	<b>PSB-2X96W-UNI-24VDC</b> 	<b>PSB-3X96W-UNI-24VDC</b> 	<b>PSB-4X96W-UNI-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	96W	2X96W	3X96W	4X96W
<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 3.12" X 2.18"	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	<b>PSB-96W-UNI-24VDC-TB</b>	<b>PSB-2X96W-UNI-24VDC-TB</b>	<b>PSB-3X96W-UNI-24VDC-TB</b>	<b>PSB-4X96W-UNI-24VDC-TB</b>
<b>IN-WALL MOUNTING</b>	<b>PSB-96W-UNI-24VDC-IW</b>	<b>PSB-2X96W-UNI-24VDC-IW</b>	NA	NA

### ELV DIMMING & CONTROLS

<b>LUTRON DIVA: DVELV-300P</b>	•	•	•	•
<b>LUTRON SKYLARK: SELV-300P</b>	•	•	•	•
<b>LUTRON RADIO RA2: RRD-6NA</b>	•	•	•	•
<b>LUTRON MAESTRO: MAELV-600</b>	•	•	•	•
<b>LEGRAND ADORNE: ADTP-703TUM4</b>	•	•	•	•

### 0-10 DIMMING & CONTROLS

<b>PHILIPS SUNRISE: SR1200ZTUNV</b>	•	•	•	•
<b>LUTRON DIVA: DVTW-WH, DVSTV-WH</b>	•	•	•	•
<b>LUTRON NOVA T: NTSTV-DV-XX</b>	•	•	•	•
<b>LUTRON GRAFIX EYE QS: QSGRJ-XP</b>	•	•	•	•
<b>LUTRON RADIO RA2: RRD-10ND</b>	•	•	•	•
<b>LEVITON: LEV40050</b>	•	•	•	•
<b>LEVITON IP710-LFZ</b>	•	•	•	•
<b>LEGRAND: ADPD4FBL3P2W4</b>	•	•	•	•

### TRIAC DIMMING & CONTROLS

<b>LUTRON SKYLARK: S2-L-WH</b>	•	•	•	•
<b>LUTRON DIVA DVLV-600P-WH</b>	•	•	•	•
<b>LUTRON DIVA DVLV-603P-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MALV-600-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MALV-1000-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MA-R-XX</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

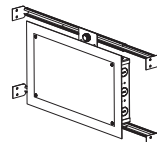
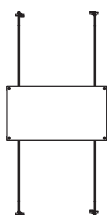
\*Title 24 with JAB listed PureEdge products and systems

\*Tunable White requires Dual power Supplies and Controls. For single control use with our proprietary Tunable White Controller CDMX-1, refer to Universal Tunable White Power Supply Specifications. Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.

- 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 Supplies 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.

**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes :** PSB-40W-UNI-24VDC-TB, PSB-60W-UNI-24VDC-TB, PSB-96W-UNI-24VDC-TB, PSB-2X40W-UNI-24VDC-TB, PSB-2X60W-UNI-24VDC-TB, PSB-2X96W-UNI-24VDC-TB, PSB-3X96W-UNI-24VDC-TB, PSB-4X96W-UNI-24VDC-TB



**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":** PSB-40W-UNI-24VDC-IW, PSB-60W-UNI-24VDC-IW, PSB-96W-UNI-24VDC-IW

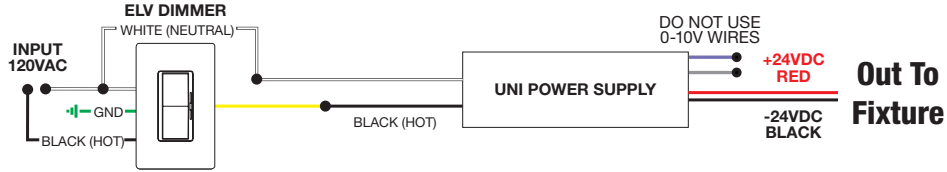
**Ordering Codes 8.5" x 14.25":** PSB-2X40W-UNI-24VDC-IW, PSB-2X60W-UNI-24VDC-IW, PSB-2X96W-UNI-24VDC-IW

PROJECT	FIXTURE TYPE	DATE
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**WIRING DIAGRAMS UNIVERSAL POWER SUPPLY**

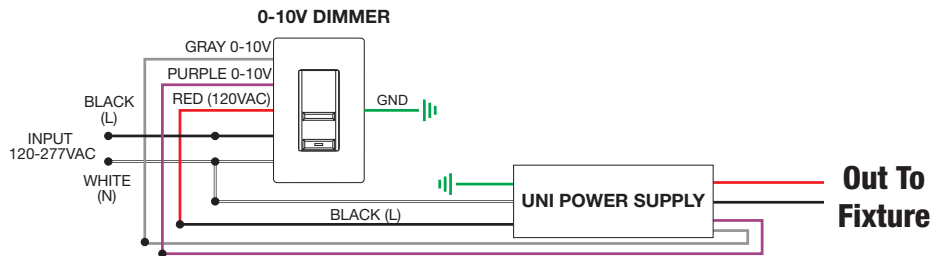
**Application:** ELV dimming for Static White and Warm Dim

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



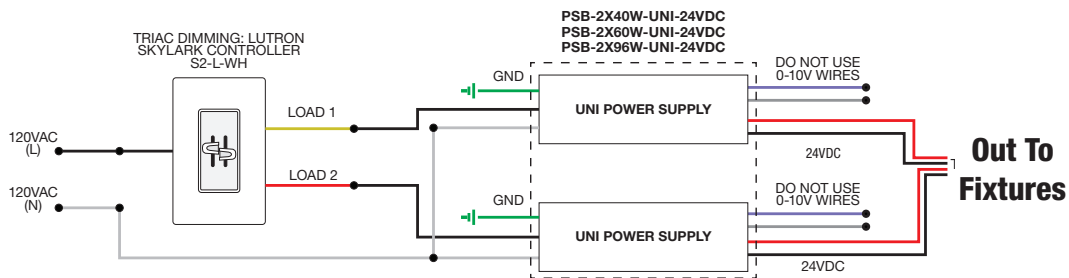
**Application:** 0-10V dimming for Static White

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



**Application:** Triac dimming for two power supplies, use for Static White

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



PROJECT		FIXTURE TYPE		DATE	
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### 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-25W-010-24VDC	PSB-60W-010-24VDC	PSB-96W-010-24VDC
SPECIFICATIONS			
MAXIMUM LOAD	25W	60W	96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	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"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-25W-010-24VDC-TB	PSB-60W-010-24VDC-TB	PSB-96W-010-24VDC-TB
IN-WALL MOUNTING	PSB-25W-010-24VDC-IW	PSB-60W-010-24VDC-IW	PSB-96W-010-24VDC-IW

### 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-2X96W-010-24VDC	PSB-3X96W-010-24VDC	PSB-4X96W-010-24VDC
SPECIFICATION			
MAXIMUM LOAD	2X96W	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
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
T-BAR MOUNTING	PSB-2X96W-010-24VDC-TB	PSB-3X96W-010-24VDC-TB	PSB-4X96W-010-24VDC-TB
IN-WALL MOUNTING	PSB-2X96W-010-24VDC-IW	N/A	N/A

### DIMMING & CONTROLS

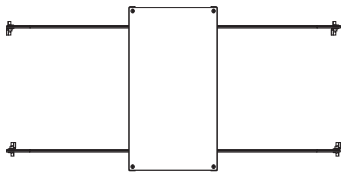
PHILIPS SUNRISE: SR1200ZTUNV	•	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•	•
LUTRON RADIO RA2: RRD-10ND	•	•	•
LEVITON: LEV40050	•	•	•
LEVITON IP710-LFZ	•	•	•
LEGRAND: ADPD4FBL3P2W4	•	•	•

- 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 > 90

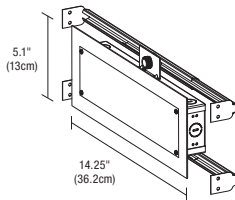
\*Title 24 compliant when used with JAB listed PureEdge systems.

\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



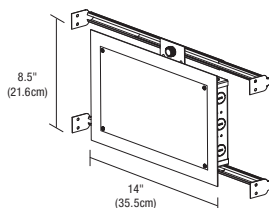
**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes:**  
 PSB-25W-010-24VDC-TB,  
 PSB-60W-010-24VDC-TB,  
 PSB-96W-010-24VDC-TB,  
 PSB-2X96W-010-24VDC-TB  
 PSB-3X96W-010-24VDC-TB  
 PSB-4X96W-010-24VDC-TB



**5.1" x 14.25" 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" 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-2X96W-010-24VDC-IW

PROJECT	FIXTURE TYPE	DATE
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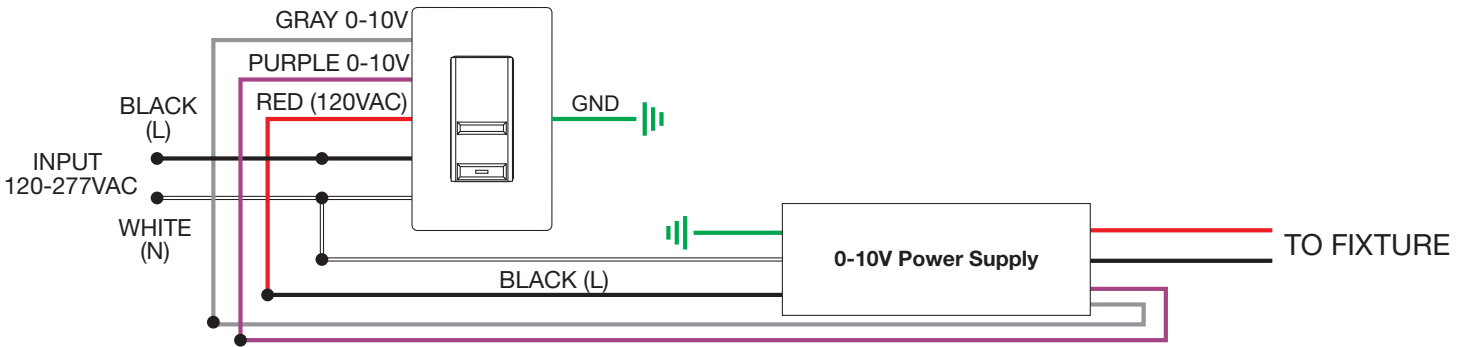


**SAMPLE WIRING DIAGRAMS 24VDC 010**

**Application:** 0-10V Dimming Applications For Static White and Warm Dim

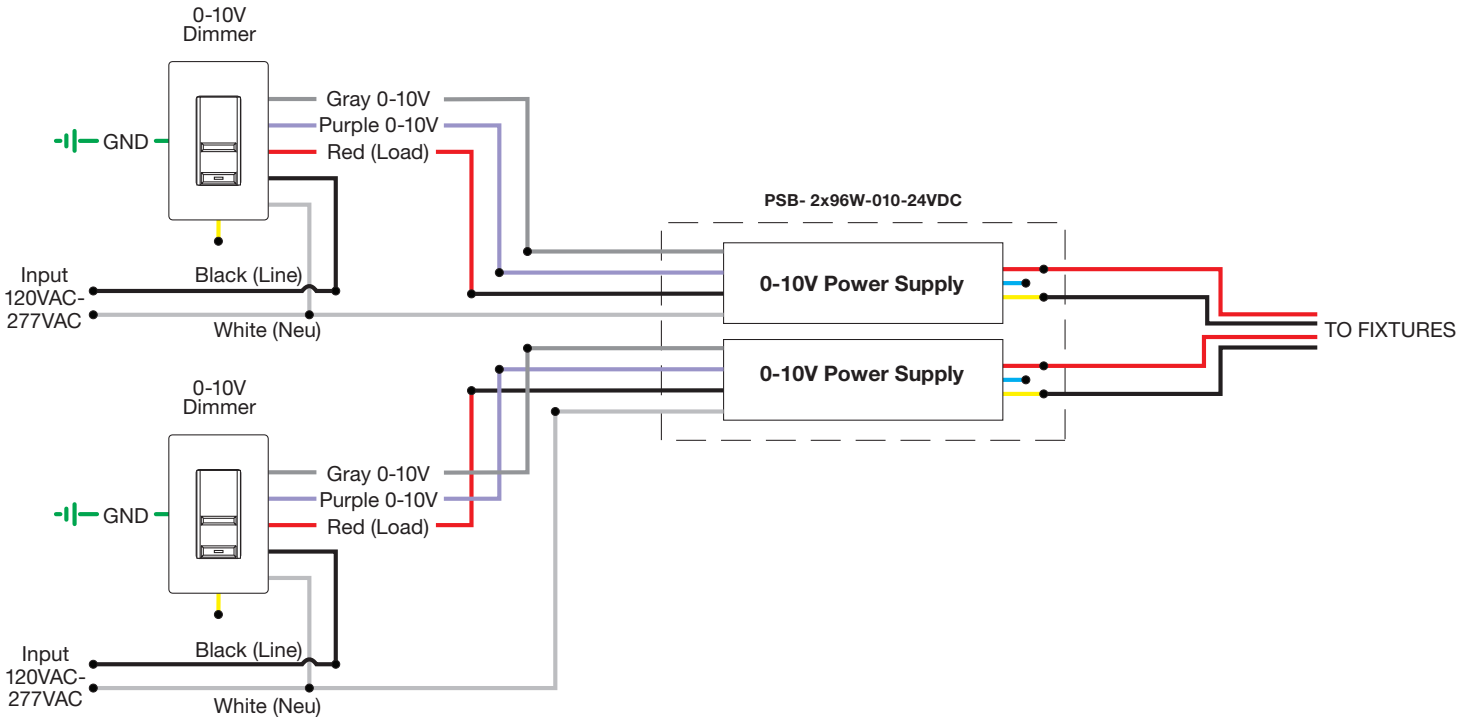
**Dimming:** Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, \*IP710-DLZ \*(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

**0-10V DIMMER**



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

**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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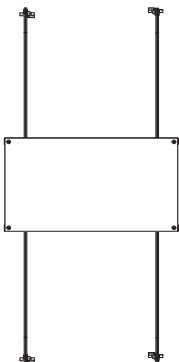
ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS <sup>†‡</sup>				
<b>ORDERING CODES</b>	<b>PS-60L-ELV-24VDC</b> 	<b>PSB-60W-ELV-24VDC</b> 	<b>PSB-2X60W-ELV-24VDC</b> 	<b>PSB-100W-ELV-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	60W NON-IC, 50W-IC (FITS IN JBOX)	60W	2X60W	96W
<b>INPUT VOLTAGE</b>	120VAC	120VAC	120VAC	120VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	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"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	N/A	<b>PSB-60W-ELV-24VDC-TB</b>	<b>PSB-2X60W-ELV-24VDC-TB</b>	<b>PSB-100W-ELV-24VDC-TB</b>
<b>IN WALL MOUNTING</b>	N/A	<b>PSB-60W-ELV-24VDC-IW</b>	<b>PSB-2X60W-ELV-24VDC-IW</b>	<b>PSB-100W-ELV-24VDC-IW</b>
ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS <sup>†‡</sup>				
<b>ORDERING CODES</b>	<b>PSB-2X100W-ELV-24VDC</b> 	<b>PSB-3X100W-ELV-24VDC</b> 	<b>PSB-4X100W-ELV-24VDC</b> 	
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	2X96W	3X96W	4X96W	
<b>INPUT VOLTAGE</b>	120VAC	120VAC	120VAC	
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	
<b>DIMENSIONS</b>	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"	
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	
<b>T-BAR MOUNTING</b>	<b>PSB-2X100W-ELV-24VDC-TB</b>	<b>PSB-3X100W-ELV-24VDC-TB</b>	<b>PSB-4X100W-ELV-24VDC-TB</b>	
<b>IN WALL MOUNTING</b>	<b>PSB-2X100W-ELV-24VDC-IW</b>	N/A	N/A	
<b>DIMMING AND CONTROLS</b>				
<b>LUTRON DIVA: DVELV-300P</b>	•	•	•	
<b>LUTRON SKYLARK: SELV-300P</b>	•	•	•	
<b>LUTRON RADIO RA2: RRD-6NA</b>	•	•	•	
<b>LUTRON MAESTRO: MAELV-600</b>	•	•	•	
<b>LEGRAND ADORNE: ADTP-703TUM4</b>	•	•	•	

<sup>†</sup>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 color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies. Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

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

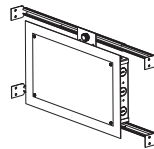
With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies

\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



**T-Bar Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes :** PSB-60W-ELV-24VDC-TB  
PSB-100W-ELV-24VDC-TB  
PSB-2X60W-ELV-24VDC-TB  
PSB-2X100W-ELV-24VDC-TB  
PSB-3X100W-ELV-24VDC-TB  
PSB-4X100W-ELV-24VDC-TB



**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":** PSB-60W-ELV-24VDC-IW  
PSB-100W-ELV-24VDC-IW

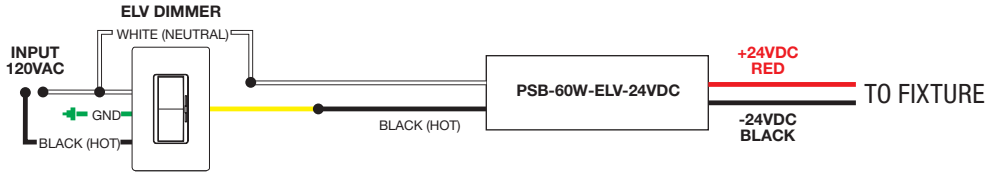
**Ordering Codes 8.5" x 14.25":** PSB-2X60W-ELV-24VDC-IW  
PSB-2X100W-ELV-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	
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**SAMPLE WIRING DIAGRAMS 24VDC ELV**

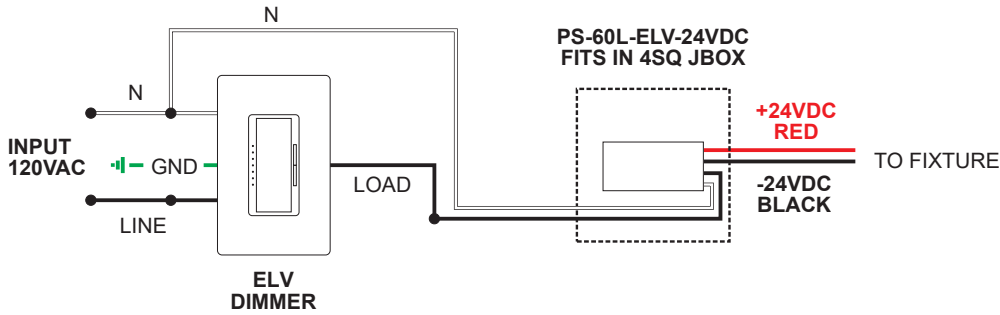
**Application:** ELV dimming for Static White

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



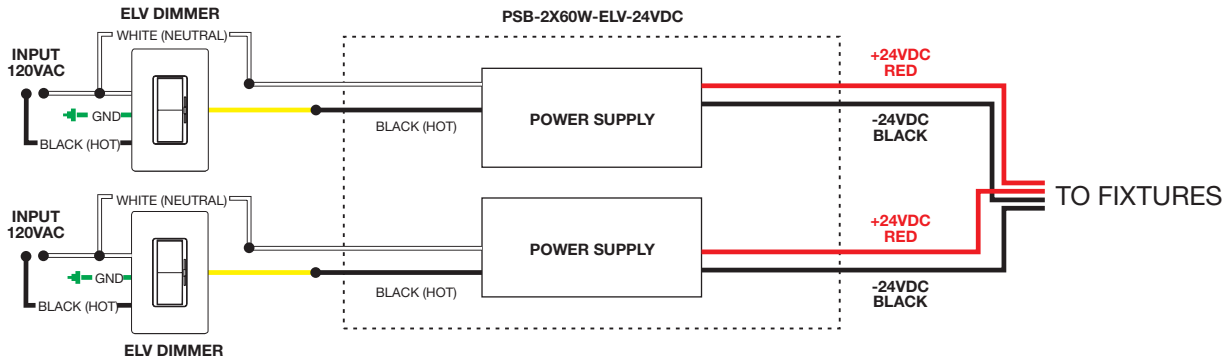
**Application:** ELV dimming for Static White

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

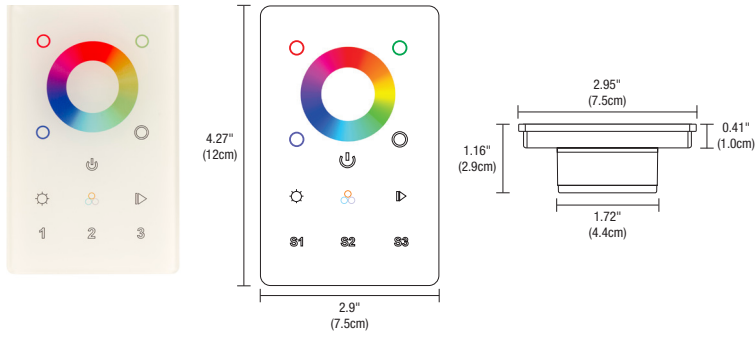


**Application:** Dual ELV dimming for Static White

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



PROJECT		FIXTURE TYPE		DATE	
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**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**

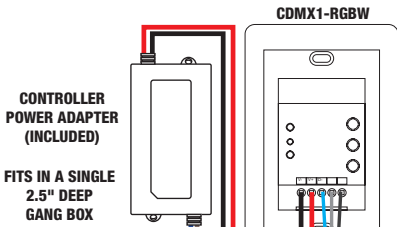
120-277VAC

**INSTALLATION**

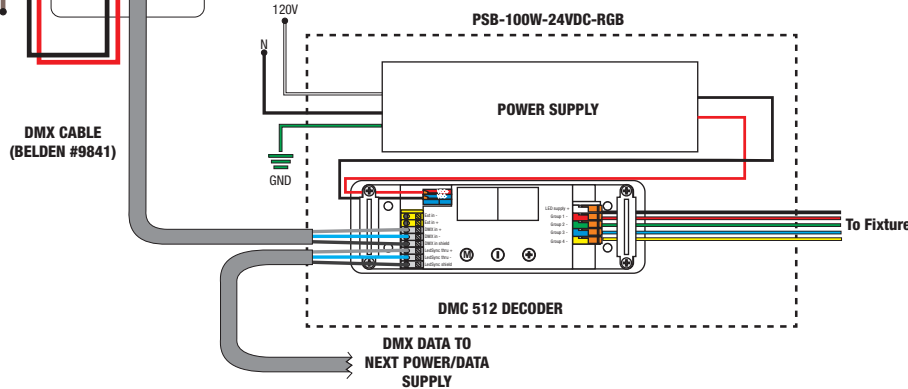
Fits in a single gang 2.5" deep junction box, not to be used with a multi gang box

**OUTPUT SIGNAL**

USITT DMX 512 (1990)

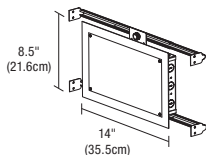


Product	Type	Finish
<b>CDMX1</b>	<b>RGBW</b>	<b>WH</b>
CDMX1 DMX 1 Zone Touch Controller	RGBW RGB & RGBW	WH White



**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-RGBW)</b>	•	•	•	•






**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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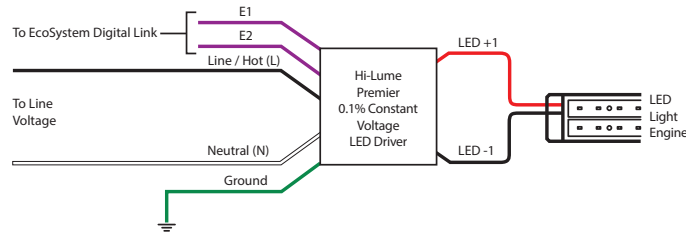
**LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®†**

ORDERING CODES	L3D0-96W24V-U	2-WIRE ECOSYSTEM LTEA4U1UKL-CV240	3-WIRE ECOSYSTEM L3DA4U1UKL-CV240
			
<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>T-BAR MOUNTING</b>	<b>L3D0-96W24V-U-TB</b>	NA	NA
<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>	•	•	•

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-lume® Power Supplies.

\*Title 24 compliant when used with JA8 listed PureEdge systems.

**WIRING DIAGRAM FOR  
LTEA4U1UKL-CV240 OR L3D0-96W24V-U  
ECOSYSTEM DIGITAL LINK**



**COMPATIBLE DIMMERS FOR  
LTEA4U1UKL-CV240 OR L3D0-96W24V-U  
ECOSYSTEM DIGITAL LINK**

Product	Model Number		Drivers Per Control	Recommended System Version <sup>2</sup>
	120V	277V		
<b>PowPak Dimming Module with EcoSystem</b>	RMJ-ECO32-DV-B URMJ-ECO32-DVB		32 Per EcoSystem link	5.9 or Higher
<b>PowPak Wireless Fixture Control with EcoSystem<sup>1</sup></b>	FJC-ECO FJCS-ECO		3 Per EcoSystem link	0796554 or Higher
<b>Energi Savr Node unit with EcoSystem</b>	QSN-1ECO-S, QSN-2ECO-S, QSN-2ECO-PS120, UQSN-1ECO-S, UQSN-2ECO-S,		64 Per EcoSystem link	9.027 or Higher
<b>GRAFIK Eye QS unit with EcoSystem</b>	QSGRJ-_E- QSGR-_E-	-	64 Per EcoSystem link	9.009 or Higher
<b>Quantum Light Management Hub</b>	AYF-103P-	-	64 Per EcoSystem link	3.2 or Higher <sup>3</sup>
<b>Homeworks QS with EcoSystem</b>	LQSE-2ECO-D- QSGRJ-_E- QSGR-_E-	-	64 Per EcoSystem link	10 or Higher <sup>4</sup>

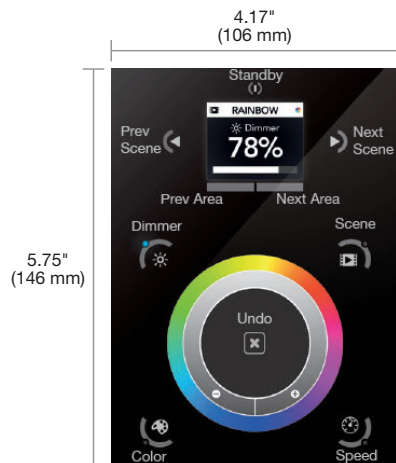
1: All devices connected to one PowPak Wireless Fixture Control will be controlled together. Devices will dim to the same level as the result of a control command. The wireless fixture control will need to have it's low end level reprogrammed to dim to 0.1% output. For more details on adjusting low end light level refer to Application Note #556 at [www.Lutron.com](http://www.Lutron.com)

2: For lower system versions please visit [www.Lutron.com/LEDsystemcheck](http://www.Lutron.com/LEDsystemcheck) to check if your system requires changes

3: Version 3.1 (or later) is required to dim lower than 1%

4: Version 7.0 (or later) is required to dim lower than 1%

PROJECT		FIXTURE TYPE		DATE	
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**DESCRIPTION**

Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 10 zone controller can adjust Tunable White, 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.

**FEATURES AND BENEFITS**
**KEY FEATURES:**

- Sleek glass design which sits 11mm from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control
- RS232, Dry Contact Ports and an Infra Red input port
- Clock and calendar with Sunrise/Sunset triggering
- Network communication. Control lighting remotely
- Catalog of designs including black and white glass
- OEM customization of the color palette and logo
- Windows/Mac software to set dynamic colors/effects
- iPhone/iPad/Android remote and programming apps

**APPLICATIONS**

Indoor

**POWER ADAPTER**

9VDC 0.65A (included)

**POWER INPUT**

7VDC 0.6A

**OUTPUT SIGNAL**

DMX512 1,024 channels total

**INPUT SIGNAL**

Universal IR receiver (Sold Separately), RS232, Contact Closure, Live Computer Link, DMX512, WiFi

**CONNECTIONS**

USB, Ethernet, RS232, Clock, 8 dry contact ports, open drain output

**MEMORY**

microSD (32GB Max)

**COMPUTER AND MOBILE DEVICE REQUIREMENTS**
**IPHONE/IPAD/ANDROID:**

The controller may be used with any of the following apps: DMX Lightpad 3, Easy Remote and Arcolis may be downloaded from App Store or Google Play.

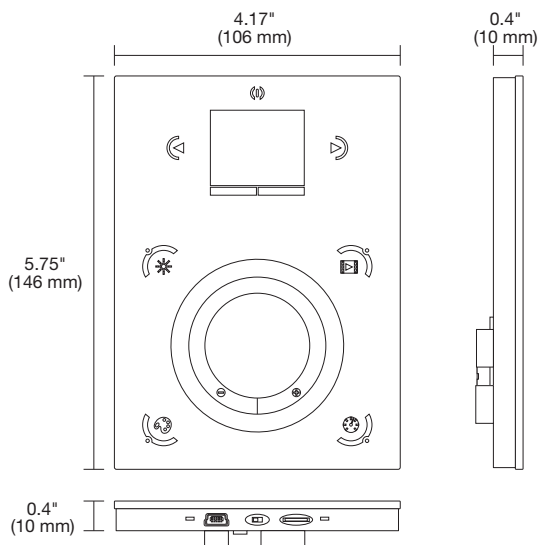
**ESA PRO SOFTWARE (WINDOWS ONLY, TIMELINE AND MULTI-ZONE):**

Windows ME, XP, Vista, 7 or 8 (32 bits and US 2.0, computer connection required for initial setup only.)

**ESA2 SOFTWARE (WINDOWS/MAC, SINGLE ZONE):**

Windows ME, XP, Vista, 7 or 8

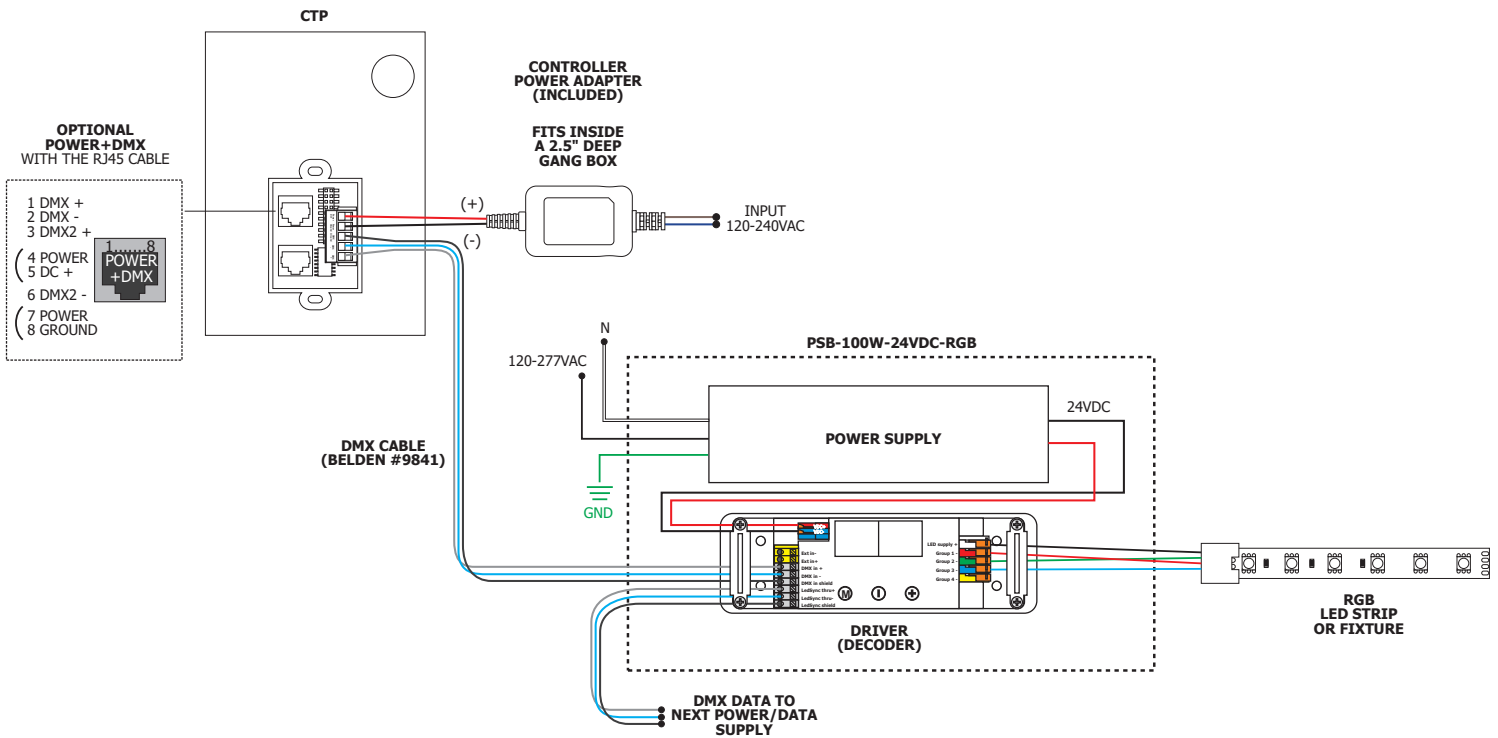
Mac OS X 10.7 (Lion), 10.8 (Mountain lion), 10.9 (Mavericks), 10.10 (Yosemite)



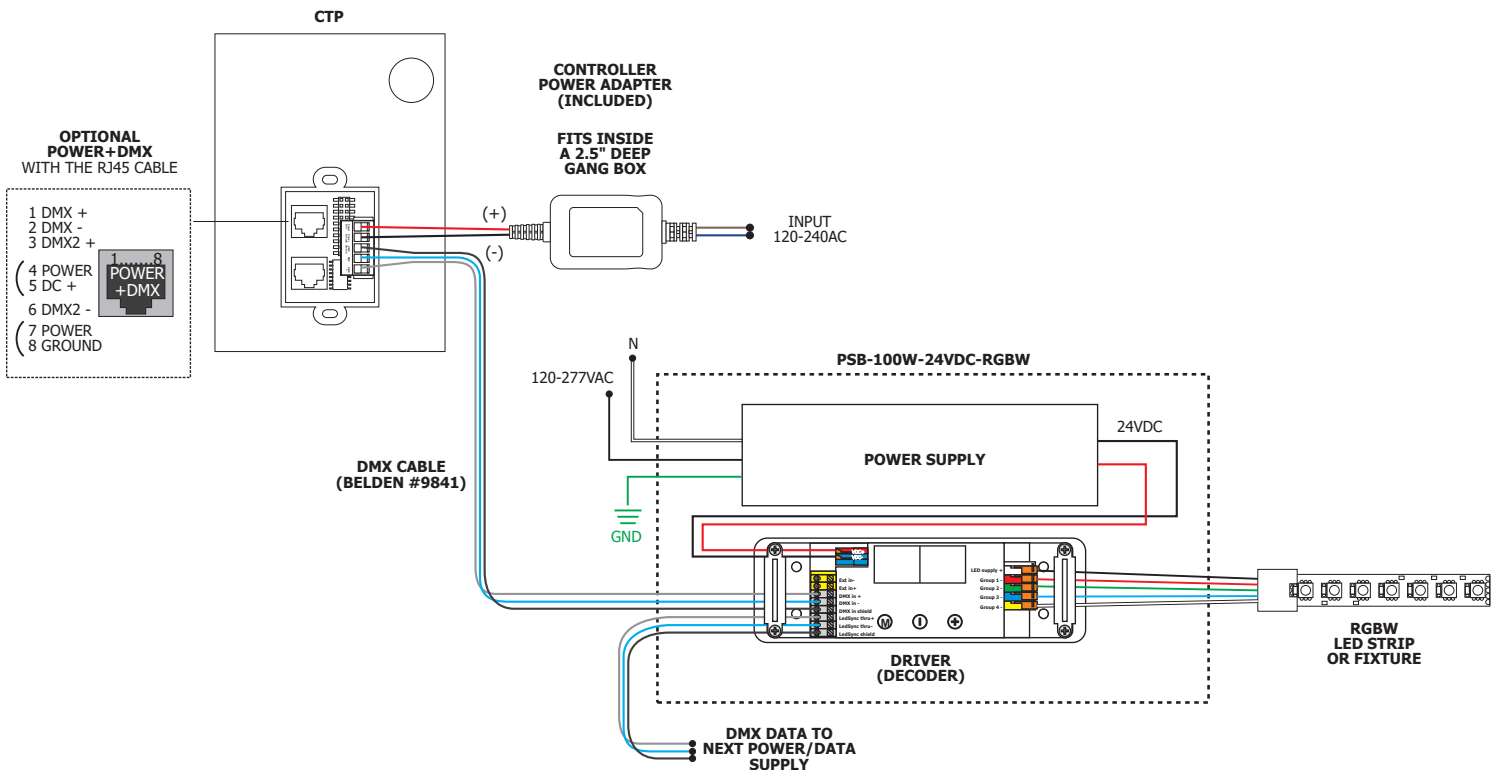
Product	Finish
<b>CTP</b>	<b>BK</b>
CTP Color Touch Screen Controller with Power Adapter	BK Black WH White

PROJECT	FIXTURE TYPE	DATE	
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**RGB Wiring Diagram**

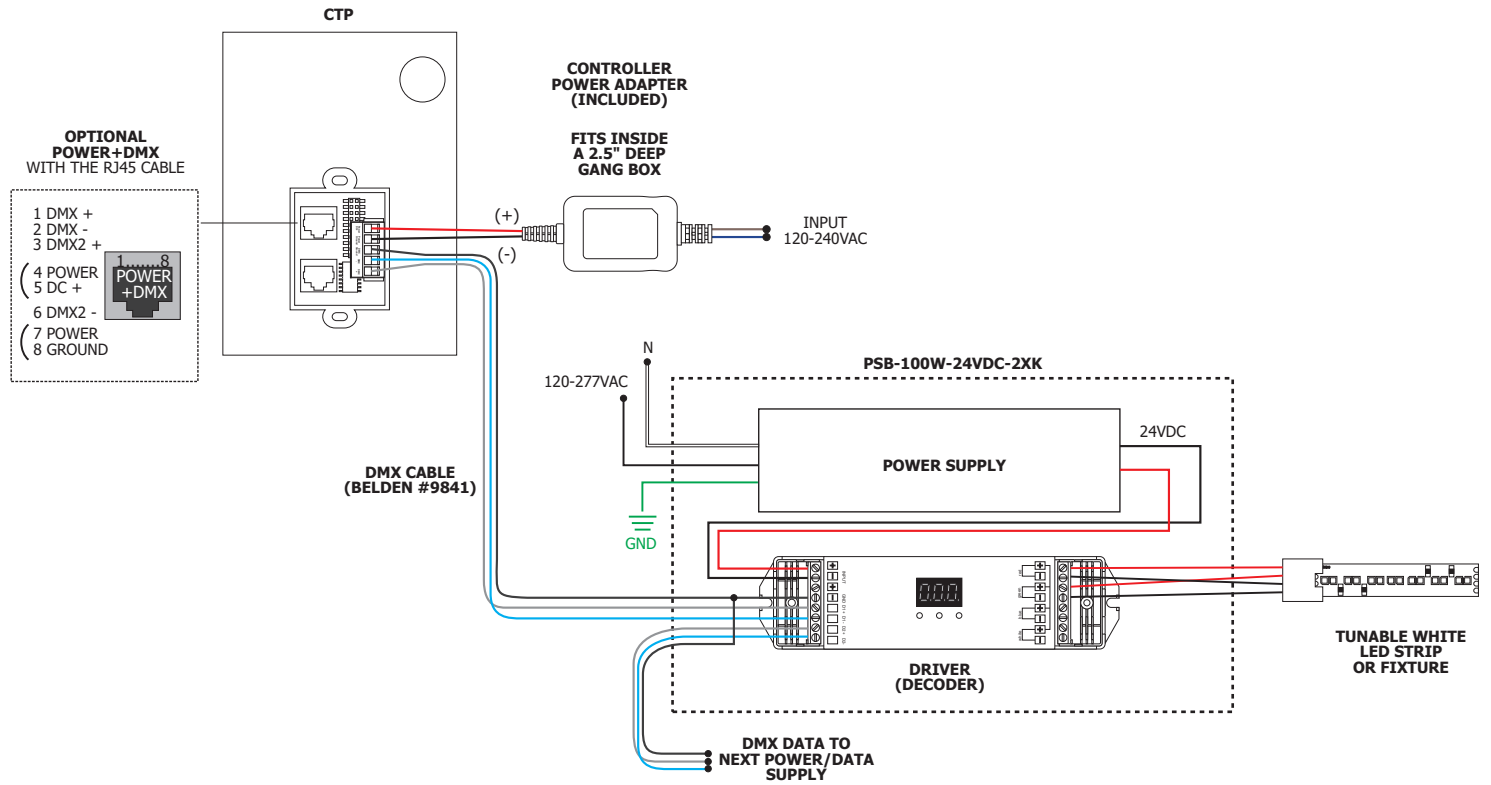


**RGBW Wiring Diagram**



PROJECT		FIXTURE TYPE		DATE	
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## Tunable White Wiring Diagram



PROJECT		FIXTURE TYPE		DATE	
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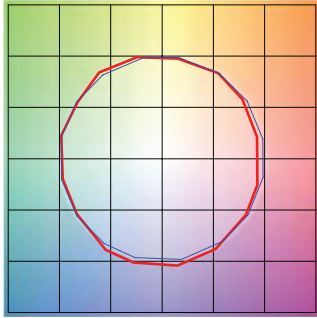
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & TUNABLE WHITE

**TM-30-15 DATA:** The data below is for ST2A, ST5A and ST7A bare LED Stomp 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

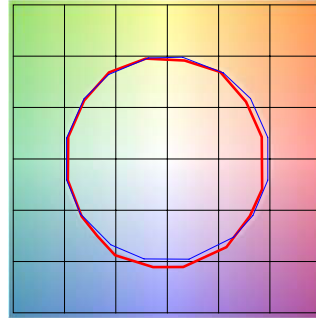


■ Test ■ Reference

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

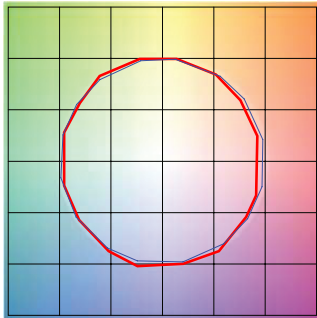


■ Test ■ Reference

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

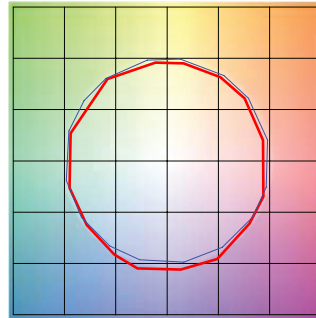


■ Test ■ Reference

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

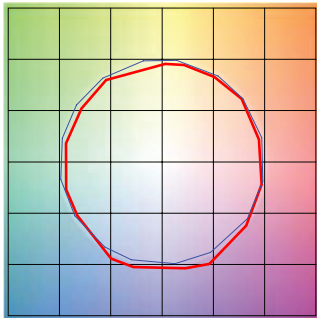


■ Test ■ Reference

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

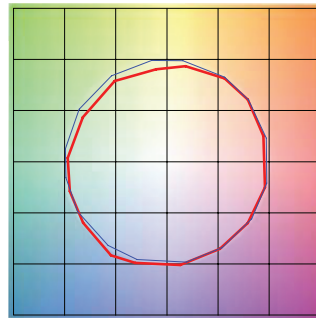


■ Test ■ Reference

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%

**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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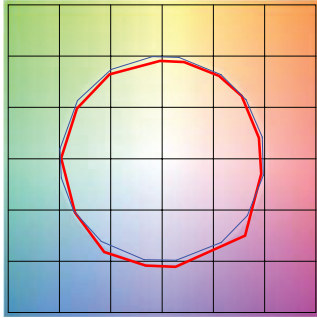
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & TUNABLE WHITE

**TM-30-15 DATA:** The data below is for ST2A, ST5A and ST7A bare LED Stomp 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: 87.6 | Rg: 98.0

Color Vector Graphic

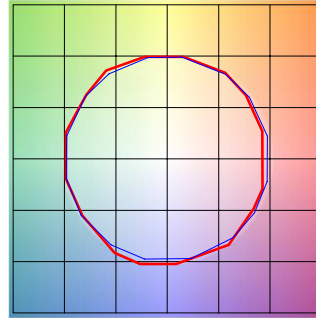


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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%

**2700D** | Rf: 90.7 | Rg: 101.1

Color Vector Graphic

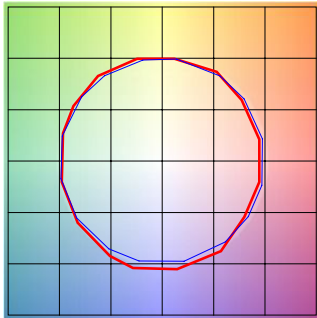


■ Test ■ Reference

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

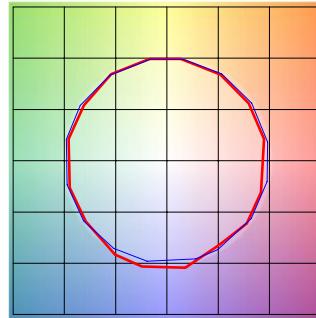


■ Test ■ Reference

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 (2K6K/27K6)** | Rf: 90.6 | Rg: 98.5

Color Vector Graphic

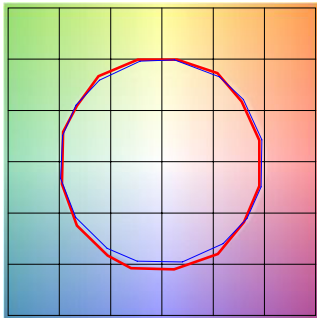


■ Test ■ Reference

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 (2K6K/27K6)** | Rf: 90.5 | Rg: 100.7

Color Vector Graphic

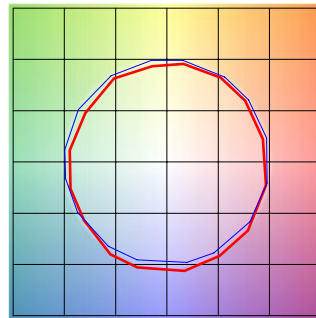


■ Test ■ Reference

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 (2K6K/27K6)** | 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%

PROJECT	FIXTURE TYPE	DATE
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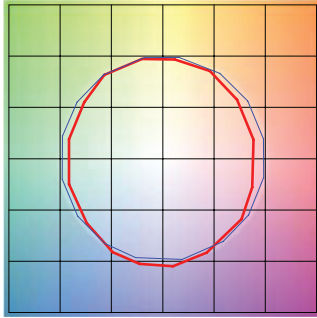
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & TUNABLE WHITE

**TM-30-15 DATA:** The data below is for PL2C, PL5C, PL7C and PL10C 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

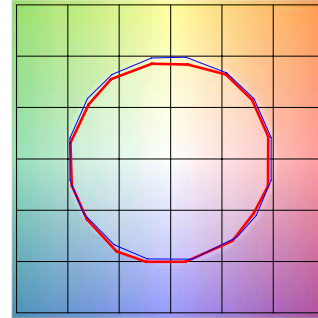


■ Test ■ Reference

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: 84.5 | Rg: 94.4

Color Vector Graphic

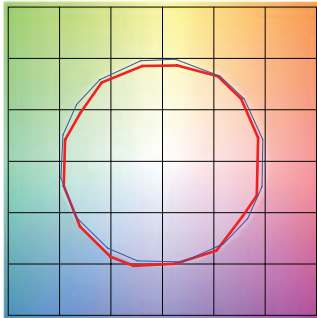


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	92	-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	-0.6%	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

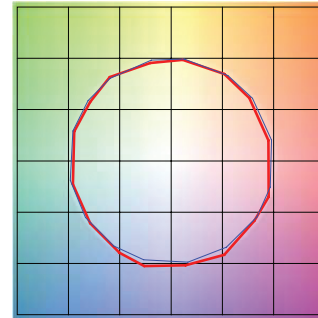


■ Test ■ Reference

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

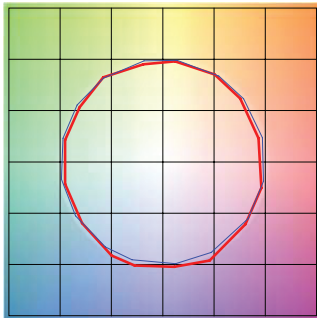


■ Test ■ Reference

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

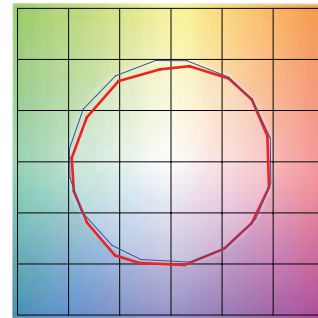


■ Test ■ Reference

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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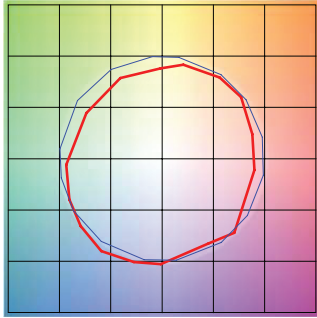
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & TUNABLE WHITE

**TM-30-15 DATA:** The data below is for PL2C, PL5C, PL7C and PL10C 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

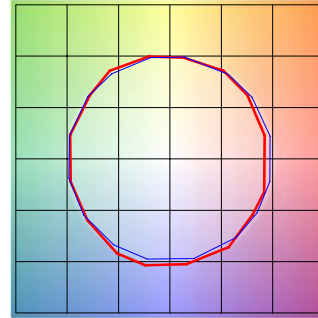


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	75.4	-8.9%	4.7%
2	87.5	-2.6%	4.6%
3	90.7	-3.0%	-0.5%
4	83.2	-6.0%	-5.7%
5	76.2	-12.9%	-5.3%
6	81.4	-11.9%	-2.6%
7	74.8	-14.0%	5.1%
8	69.0	-9.0%	14.1%
9	72.6	-3.6%	22.2%
10	71.4	2.7%	16.1%
11	81.3	7.9%	5.3%
12	83.6	4.1%	-9.4%
13	78.4	0.7%	-15.3%
14	77.7	-6.2%	-11.0%
15	68.8	-1.3%	-21.2%
16	80.8	-9.6%	3.3%

**2700D** | Rf: 89.5 | Rg: 100.8

Color Vector Graphic

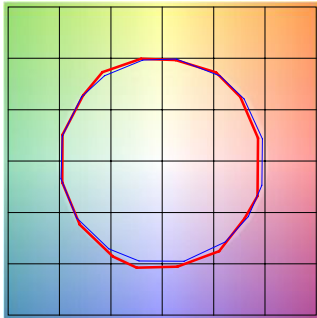


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	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

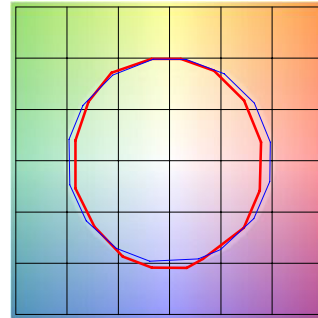


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	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 (2K6K/27K6)** | Rf: 84.3 | Rg: 96.9

Color Vector Graphic

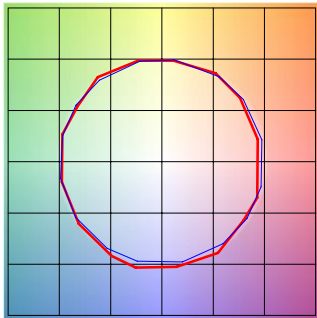


■ Test ■ Reference

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

**3000K (2K6K/27K6)** | Rf: 90.2 | Rg: 101.4

Color Vector Graphic

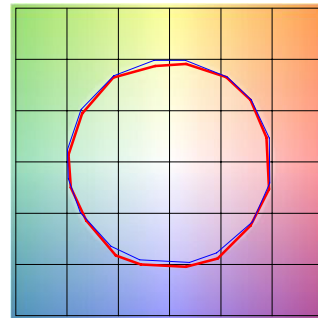


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	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 (2K6K/27K6)** | Rf: 89.6 | Rg: 99.1

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	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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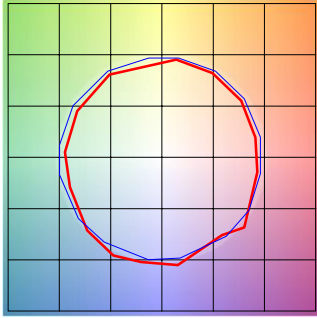
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & TUNABLE WHITE

**TM-30-15 DATA:** The data below is for PL2C, PL5C, PL7C and PL10C 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.

**6500K ONLY (2K6K/27K6) | Rf: 86.8 | Rg: 96.8**

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-4.7%	0.8%
2	91.9	-2.5%	3.1%
3	91.2	-2.0%	1.9%
4	91.2	-1.6%	1.4%
5	85.7	-6.2%	-0.9%
6	92.9	-3.5%	-1.0%
7	92.1	-4.7%	0.7%
8	85.2	-5.8%	4.9%
9	82.8	-6.2%	14.3%
10	77.1	-0.7%	15%
11	72.1	5.8%	14.1%
12	91.6	4.0%	1.0%
13	89.9	5.6%	-2.3%
14	90.5	-1.8%	-3.7%
15	81.6	6.5%	-13.9%
16	92.8	-3.6%	-0.4%

PROJECT		FIXTURE TYPE		DATE	
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