# LAZER LINE DIRECT OR DIRECT/INDIRECT
## SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

DESIGNED BY DEREK PORTER and GREGORY KAY | ASSEMBLED IN AMERICA

REV 08.02.21



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

## DESCRIPTION

Lazer Line 1/2" wide aluminum tape is a Direct and/or Indirect LED Lighting System that provides general illumination in architectural applications. The turnbuckles can be mounted wall to wall, ceiling to floor, or ceiling to wall. The turnbuckles allow Lazer Line to be positioned 0-60° relative to the mounting surface, creating a 3-dimensional appearance that is as functional as it is visually interesting. Mounts to standard 4" square junction box with round plaster ring, Paint canopy to blend into wall for a seamless look. For compact shipment and storage, Lazer Line coils like a retractable tape measure. When uncoiled, Lazer Line becomes a 0.5" wide, channel that spans opposing surfaces. The channel is easily cut in the field. For longer runs, feed power from both ends.

## APPLICATIONS

Designed for indoor use only. Wherever direct and indirect light sources can be used such as offices, hallways, hotels, restaurants and retail environments.

## LUMEN PERFORMANCE AT 3000K 6W/FT

(Refer to page 2 for full lumen data)

| | |
|---|---|
| LUMEN OUTPUT | 542 lm/ft |
| EFFICIENCY | 164 lm/w |
| CRI | 92+ |
| R9 | 69 |
| Rf | 91 |
| Rg | 99 |
| BEAM ANGLE | 120° |

## FINISHES

Satin Aluminum **SA**

White **WH**

## SPECIFICATIONS

| | |
|---|---|
| INPUT VOLTAGE | 24VDC remote power |
| POWER CONSUMPTION | LZ: 3 or 5 w/ft<br>LZUD: 6W (3W up + 3W down) or 10 W/ft (5W up + 5W down) |
| ORDERING INCREMENTS | 1 ft |
| MAXIMUM LENGTHS | LZ: 3W-60' 5W-40'<br>LZUD: 6W-30' 10W-20' with power feeds at both ends |
| MOUNTING: | Semi-recessed, Flush mount adjustable turnbuckles included |
| FINISH: | Clamp Assembly: White Powder Coat or Satin Aluminum<br>Turnbuckle: Plaster-in and Paint Plate blends into ceiling and walls for a seamless look. |
| OPERATING TEMP | -4°F to 122°F (-20°C to 50°C) |
| LEDs/ft | 168 |
| AVERAGE LED LIFE | 50,000 hrs |
| WARRANTY | 5 Year Pro-rated |

## REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS

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

*In-Wall Mounting Kits available for select power supplies
**Tunable White Requires two dimmers (one for each color temperature) or use our proprietary Tunable White Controller CDMX-1
†With nLight Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies

## APPROVALS/COMPLIANCE

USA Patent, ETL, Class 2, Damp Rated, RoHS

### LAZER LINE, SINGLE STRIP DIRECT (USED AS UP OR DOWN)

| Product | Wattage | Length in Feet | Color Temperature | | Turnbuckle Finish | |
|---|---|---|---|---|---|---|
| **LZ** | **5W** | **60** | **30KZ** | | **SA** | Down Only |

| Product | Wattage | Length in Feet | Color Temperature | | | Turnbuckle Finish |
|---|---|---|---|---|---|---|
| **LZ** Lazer Line 0.5" with single row Lazer Strip | **3W** 3.3 Watts/ft up to 60 ft (power feeds at both ends)<br>**5W** 4.4 Watts/ft up to 40 ft (power feeds at both ends)<br><br>Power Feeds at one end:<br>3W max length 30ft<br>5W max length 20ft | **1-60** 1-60 Feet | **24KZ** 2400K Amber White<br>**27KZ** 2700K Very Warm White<br>**30KZ** 3000K Warm White<br>**35KZ** 3500K Neutral White<br>**40KZ** 4000K Cool White<br>**RZ** Red | **GZ** Green<br>**BZ** Blue<br>**AZ** Amber<br>**2K6K** Tunable White 2000K-6500K<br>**RGB** Red, Green and Blue | | **SA** Satin Aluminum*<br>**WH** White*<br><br>*Refers to clamp assembly within turnbuckles |

Up Only

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

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# LAZER LINE DIRECT OR DIRECT/INDIRECT
## SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER
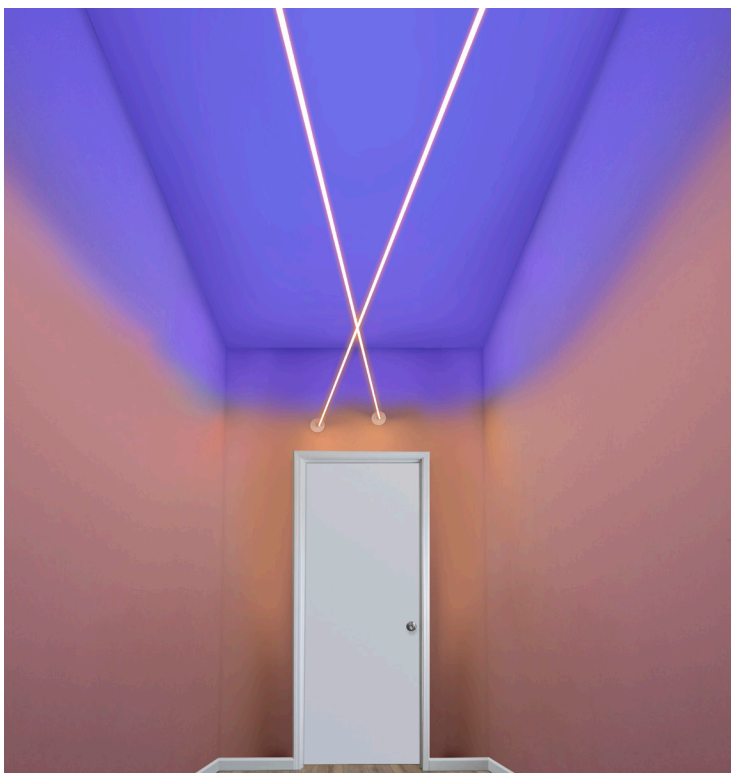
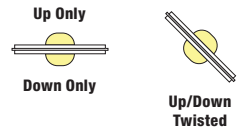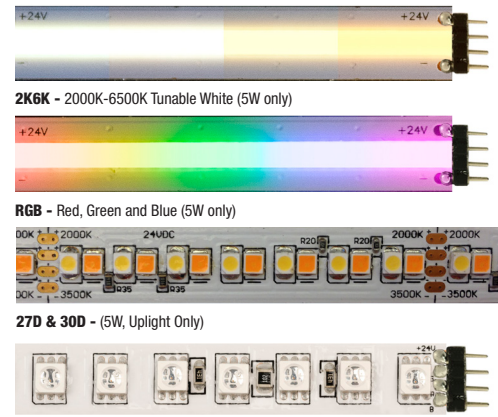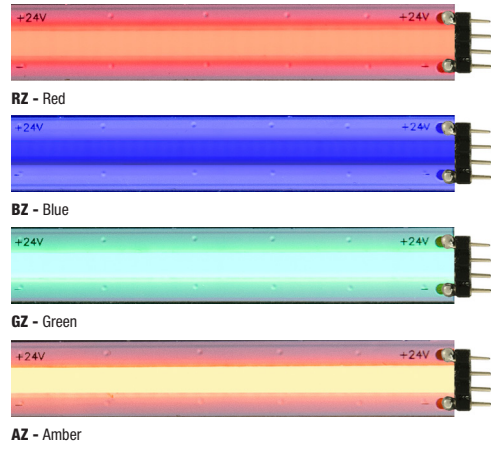**PURE EDGE LIGHTING**

REV 08.02.21

**LAZER LINE, TWO STRIPS (COMBINED UP & DOWN LIGHT)**
**MAY BE SWITCHED SEPARATELY**

| Product | Wattage | Length in Feet | Down Light Color Temperature | Up Light Color Temperature | Turnbuckle Finish |
|---|---|---|---|---|---|
| **LZUD** | **10W** | **60** | **30KZ** | **24KZ** | **SA** |

**LZUD** Lazer Line 0.5" with 2 Lazer Strips (Up + Down)

**6W** 2x3.3 Watts/ft up to 60 ft (two power feeds at both ends)
**10W** 2x4.4 Watts/ft up to 40 ft (two power feeds at both ends)

Power Feeds at one end:
**6W** 6W 2x3.3W max length 30ft (two power feeds at one end)
**10W** 10W 2x4.4W max length 20ft (two power feeds at one end)

**1-60**

**Down Light Color Temperature**
**24KZ** 2400K Amber White
**27KZ** 2700K Very Warm White
**30KZ** 3000K Warm White
**35KZ** 3500K Neutral White
**40KZ** 4000K Cool White
**2K6K** Tunable White 2000K-6500K (5W)
**RGB** Red, Green and Blue (5W)
**RZ** Red
**GZ** Green
**BZ** Blue
**AZ** Amber

**Up Light Color Temperature**
**24KZ** 2400K Amber White       **RZ** Red
**27D*** 2700K Warm Dim (5W)      **GZ** Green
**27KZ** 2700K Very Warm White    **BZ** Blue
**30D*** 3000K Warm Dim (5W)      **AZ** Amber
**30KZ** 3000K Warm White         **RGB** Red, Green and Blue (5W)
**35KZ** 3500K Neutral White      **RGBW*** Red, Green, Blue & White (6W)
**40KZ** 4000K Cool White
**2K6K** Tunable White 2000K-6500K (5W)

*May show visible pixelation depending on distance from ceiling/wall surface

**Turnbuckle Finish**
**SA** Satin*
**WH** White*

*Refers to clamp assembly within turnbuckles

**24KZ** - 2400K Amber White

**27KZ** - 2700K Very Warm White

**30KZ** - 3000K Warm White

**35KZ** - 3500K Neutral White

**40KZ** - 4000K Cool White

**RZ** - Red

**BZ** - Blue

**GZ** - Green

**AZ** - Amber

**2K6K** - 2000K-6500K Tunable White (5W only)

**RGB** - Red, Green and Blue (5W only)

**27D & 30D** - (5W, Uplight Only)

**RGBW** - (6W, Uplight Only)

Up Only

Down Only

Up/Down Twisted

LAZER LINE UP/DOWN (RGB UP LIGHT, DOWN 27K)

LAZER LINE DOWN (27K)

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

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# LAZER LINE DIRECT OR DIRECT/INDIRECT
## SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

**LAMP DATA:** Lamp data for Lazer Light

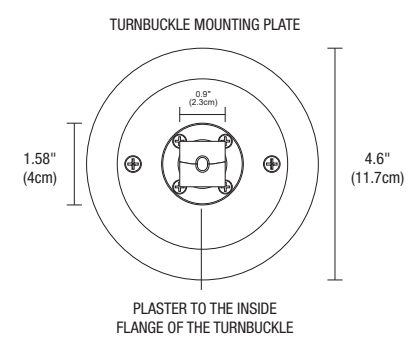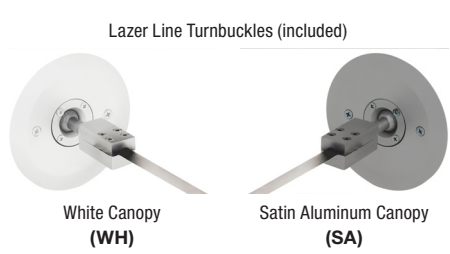| STATIC WHITE - UP AND DOWN LIGHT COMBINED | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **WATTS PER FOOT** | 6w ( | | | | 5W (4.4 watts) | | | |
| **COLOR TEMPERATURE** | 24KZ | 27KZ | 30KZ | 35KZ | 24KZ | 27KZ | 30KZ | 35KZ |
| **LUMENS PER FOOT** (lm/ft) | 240 | 258 | 271 | 274 | 264 | 338 | 369 | 423 |
| **LUMENS PER WATT** (lm/w) | 73 | 78 | 82 | 83 | 60 | 77 | 84 | 96 |

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

### LS3 24VDC LAZER STRIP (3.3 WATTS PER FOOT)
#### MAXIMUM LENGTH BEFORE REFEEDING: 30FT

| LENGTH IN FEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL WATTAGE | 3.3 | 6.6 | 10 | 13.2 | 15 | 16.5 | 19.8 | 16.5 | 23.1 | 26.4 | 29.7 | 33 | 36.3 | 39.6 | 42.9 | 46.2 | 49.5 | 52.8 | 56.1 | 59.4 | 62.7 | 66 | 69.3 | 72.6 | 75.9 | 79.2 | 82.5 | 85.8 | 89.1 | 92.4 |

### LS5 STATIC WHITE 24VDC LAZER STRIP (4.4 WATTS PER FOOT)
#### MAXIMUM LENGTH BEFORE REFEEDING: 20FT

| LENGTH IN FEET | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL WATTAGE | 5 | 10 | 15 | 20 | 24 | 29 | 34 | 39 | 44 | 48 | 53 | 58 | 63 | 68 | 72 | 77 | 82 | 87 | 92 | 96 |



0.47"
1.0cm

3"
7.6cm

**Power Feed Turnbuckle**

**Non-Power Feed Turnbuckle
(if applicable)**

Lazer Line Turnbuckles (included)

White Canopy
**(WH)**

Satin Aluminum Canopy
**(SA)**

Lazer Line
Channel (included)

TURNBUCKLE ARM
MOUNTING ANCHORS
CLAMP ASSEMBLY
TURNBUCKLE PLATE
SEAMLESS LED
MOUNTING SCREWS
POWER CONNECTOR
(CAN BE PAINTED)
LAZER LINE EXTRUSION
TENSION SCREWS
SS-PFE-6IN POWER FEED 4PIN CORD
PLASTER AND PAINT OVER TURNBUCKLE

TURNBUCKLE MOUNTING PLATE

0.9"
(2.3cm)

1.58"
(4cm)

4.6"
(11.7cm)

PLASTER TO THE INSIDE
FLANGE OF THE TURNBUCKLE

TYPICAL DRYWALL
CONFIGURATION

4.0 JUNCTION BOX WITH
4" SQUARE OPENING
COVER 2.75 OPENING

LAZER LINE TURNBUCKLE

POWER FEED
CONNECTOR

LAZER LINE EXTRUSION WITH LED

CONFIGURABLE LED LENGTH 12" TO 720"

POWER TURNBUCKLE TO 4.0 JBOX

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

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# LAZER LINE DIRECT OR DIRECT/INDIRECT
## SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

**PURE EDGE LIGHTING**

CEILING

JUNCTION BOX

WALL

TURNBUCKLE

WALL

LAZER LINE

TURNBUCKLE

TURNBUCKLE

LAZER LINE

TURNBUCKLE

JUNCTION BOX

JUNCTION BOX

CEILING

TURNBUCKLE

STANDOFF

STANDOFF

TURNBUCKLE

LAZER LINE

| TOTAL WATTAGE | | | |
|---|---|---|---|
| Total Feet | 3W (3.3 Watts/ft) | 5W (5 Watts/ft) | 6W (2x3 Watts/ft) | 10W (2x5 Watts/ft) |
| 5' | 17 | 22 | 34 | 44 |
| 10' | 33 | 44 | 66 | 88 |
| 15' | 50 | 66 | 100 | 132 |
| 20' | 66 | 88 | 132 | 176 |
| 25' | 83 | 110 | 166 | 220 |
| 30' | 99 | 132 | 198 | 264 |
| 35' | 115 | 175 | 230 | 350 |
| 40' | 132 | 196 | 264 | 392 |
| 45' | 149 | | 298 | |
| 50' | 165 | | 330 | |
| 55' | 181 | | 362 | |
| 60' | 198 | | 396 | |

Lengths over 100 watt, require feeding from both ends.

| Product | Length | Finish |
|---|---|---|
| **SLS** | **24** | **SA** |

**SLS** Soft Line Standoff   **24** 24" - Cut to Length in the field   **SA** Satin Aluminum
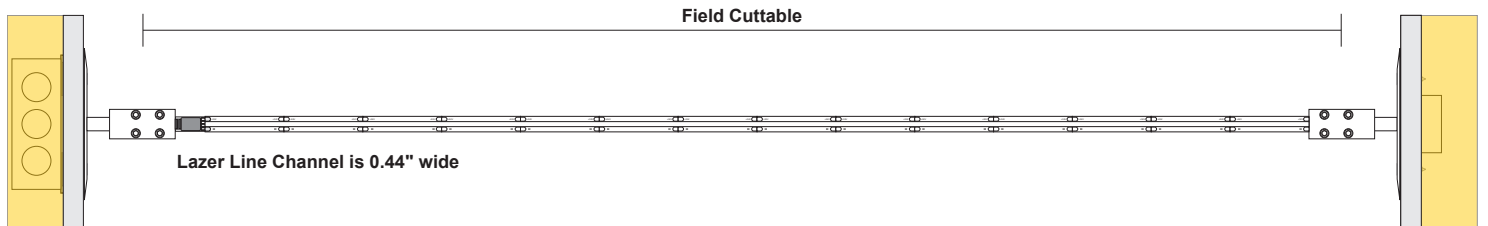
**Field Cuttable**

**Lazer Line Channel is 0.44" wide**

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

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

**PURE EDGE LIGHTING**

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS | | | |
|---|---|---|---|
| **ORDERING CODE** | PSB-40W-UNI-24VDC | PSB-60W-UNI-24VDC | PSB-2X40W-UNI-24VDC | PSB-2X60W-UNI-24VDC |

| SPECIFICATIONS | | | |
|---|---|---|---|
| MAXIMUM LOAD | 40W | 60W | 2X40W | 2X60W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 3.12" X 2.18" | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 12.15" X 6.48" X 2.18" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| T-BAR MOUNTING | PSB-40W-UNI-24VDC-TB | PSB-60W-UNI-24VDC-TB | PSB-2X40W-UNI-24VDC-TB | PSB-2X60W-UNI-24VDC-TB |
| IN-WALL MOUNTING | PSB-40W-UNI-24VDC-IW | PSB-60W-UNI-24VDC-IW | PSB-2X40W-UNI-24VDC-IW | PSB-2X60W-UNI-24VDC-IW |

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS | | | |
|---|---|---|---|
| **ORDERING CODE** | PSB-96W-UNI-24VDC | PSB-2X96W-UNI-24VDC | PSB-3X96W-UNI-24VDC | PSB-4X96W-UNI-24VDC |

| SPECIFICATIONS | | | |
|---|---|---|---|
| MAXIMUM LOAD | 96W | 2X96W | 3X96W | 4X96W |
| INPUT VOLTAGE | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| OUTPUT VOLTAGE | 24VDC | 24VDC | 24VDC | 24VDC |
| DIMENSIONS | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 13" X 3" |
| CLASSIFICATION | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| T-BAR MOUNTING | PSB-96W-UNI-24VDC-TB | PSB-2X96W-UNI-24VDC-TB | PSB-3X96W-UNI-24VDC-TB | PSB-4X96W-UNI-24VDC-TB |
| IN-WALL MOUNTING | PSB-96W-UNI-24VDC-IW | PSB-2X96W-UNI-24VDC-IW | NA | NA |

| ELV DIMMING & CONTROLS | | | |
|---|---|---|---|
| LUTRON DIVA: DVELV-300P | • | • | • | • |
| LUTRON SKYLARK: SELV-300P | • | • | • | • |
| LUTRON RADIO RA2: RRD-6NA | • | • | • | • |
| LUTRON MAESTRO: MAELV-600 | • | • | • | • |
| LEGRAND ADORNE: ADTP-703TUM4 | • | • | • | • |

| 0-10 DIMMING & CONTROLS | | | |
|---|---|---|---|
| PHILIPS SUNRISE: SR1200ZTUNV | • | • | • | • |
| LUTRON DIVA: DVTV-WH, DVSTV-WH | • | • | • | • |
| LUTRON NOVA T: NTSTV-DV-XX | • | • | • | • |
| LUTRON GRAFIX EYE QS: QSGRJ-XP | • | • | • | • |
| LUTRON RADIO RA2: RRD-10ND | • | • | • | • |
| LEVITON: LEV40050 | • | • | • | • |
| LEVITON IP710-LFZ | • | • | • | • |
| LEGRAND: ADPD4FBL3P2W4 | • | • | • | • |

| TRIAC DIMMING & CONTROLS | | | |
|---|---|---|---|
| LUTRON SKYLARK: S2-L-WH | • | • | • | • |
| LUTRON DIVA DVLV-600P-WH | • | • | • | • |
| LUTRON DIVA DVLV-603P-WH | • | • | • | • |
| LUTRON MAESTRO MALV-600-WH | • | • | • | • |
| LUTRON MAESTRO MALV-1000-WH | • | • | • | • |
| LUTRON MAESTRO MA-R-XX | • | • | • | • |

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

*Title 24 with JA8 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
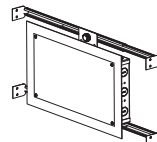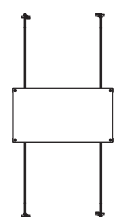
**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

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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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

**PURE EDGE**
LIGHTING

## 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
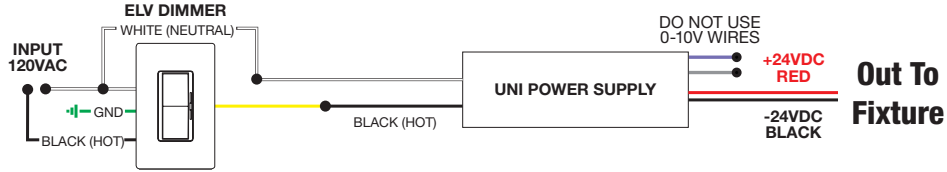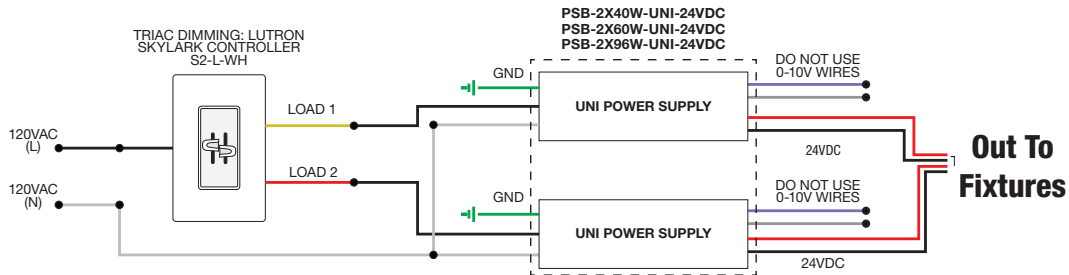


**Application:** 0-10V dimming for Static White

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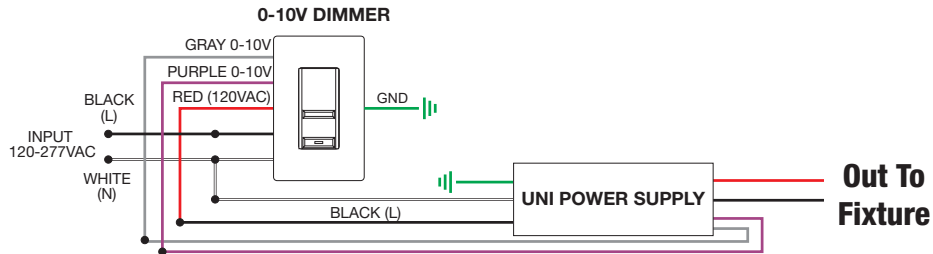


**Application:** Triac dimming for two power supplies, use for Static White

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



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

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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
## 24VDC, ELECTRONIC LOW VOLTAGE FOR STATIC WHITE, WARM DIM

PURE EDGE LIGHTING

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

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

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White 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.

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

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

**Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.
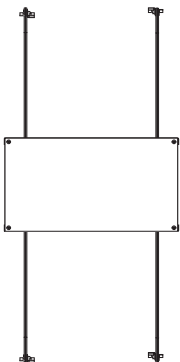
**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

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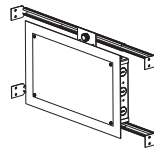
**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**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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For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

7
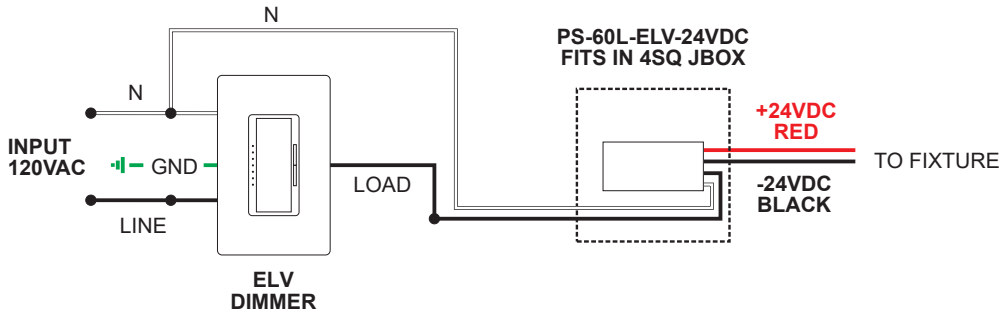
## SAMPLE WIRING DIAGRAMS 24VDC ELV

**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
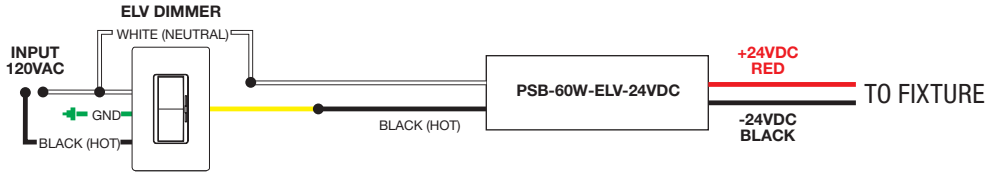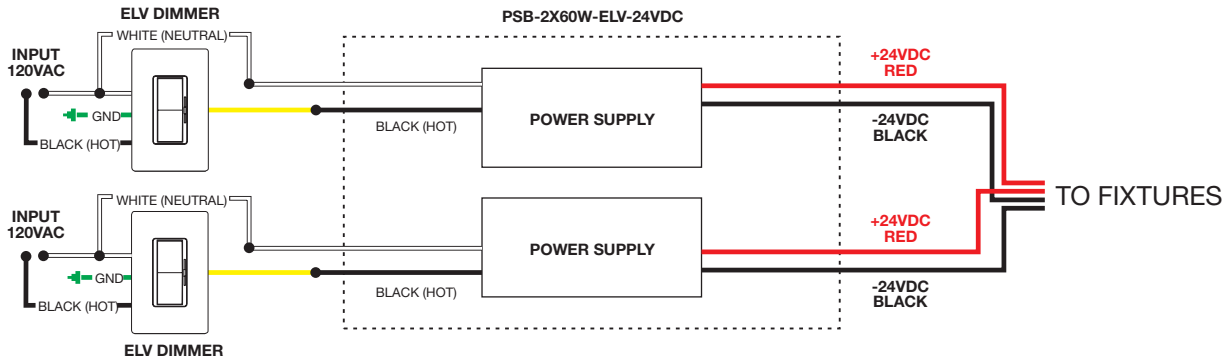


**Application:** ELV dimming for Static White

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

### 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 |
| T-BAR MOUNTING | L3D0-96W24V-U-TB | NA | NA |

#### DIMMING AND CONTROLS

| | | | |
|---|---|---|---|
| RADIO RA2 | • | • | • |
| HOMEWORKS QS | • | • | • |
| PHPM-3F-120 | • | • | • |
| PHPM-3F-DV | • | • | • |
| BCI-0-10 | • | • | • |

†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
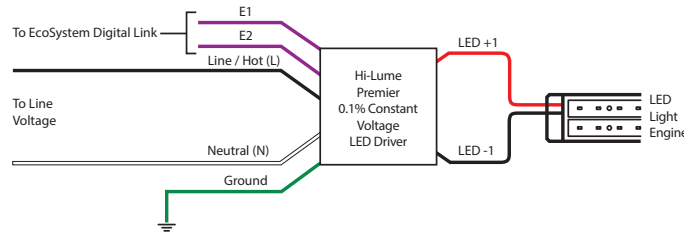


### COMPATIBLE DIMMERS FOR
### LTEA4U1UKL-CV240 OR L3D0-96W24V-U
### ECOSYSTEM DIGITAL LINK

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

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
2: For lower system versions please visit 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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For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**
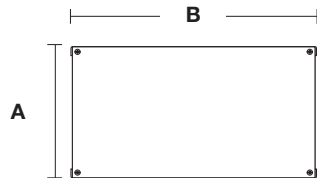
9

# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY
## 24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE
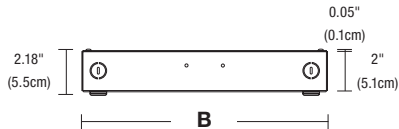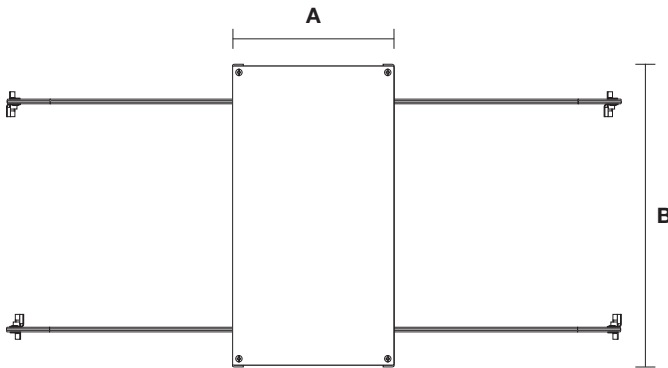
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

**PURE EDGE** LIGHTING

REV 08.02.21

PSB-96W-010-24VDC-2XK

**B**

**A**

**TOP VIEW**

2.18"
(5.5cm)

0.05"
(0.1cm)

2"
(5.1cm)

**B**

**SIDE VIEW**

**A**

**B**

PSB-96W-010-24VDC-2XK-TB
(T-BAR GRID CEILING)

### DESCRIPTION
Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers. 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. Power Supply features short circuit, overload and over temperature protection.

### APPLICATIONS
Indoor, Damp Location

### MOUNTING
Surface mounted with conduit access

### POWER INPUT
120-277VAC

### POWER OUTPUT
Class 2; 24 volts DC 4A, up to 96 watts maximum

### EFFICIENCY
90%

### AMBIENT OPERATING TEMPERATURE
-25° C to 40° C

### DIMMING
#1 Controls the intensity. #2 Controls the Color Temperature.
0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

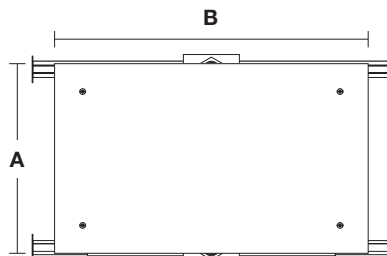### DIMMING CURVE
Linear, Logarithmic 100% - 0% (HydraDrive)

### COMPLIANCE
Made in the USA, UL, CE, Title 28, Plenum for use in Accordance with UL 2043.
*Title 24 with JA8 listed PureEdge products and systems

| | Product | | Wattage | | Dimming | | Voltage | | Color Temperature | | Options |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **PSB** | | **96W** | | **010** | | **24VDC** | | **2XK** | | STANDARD (Leave Blank) |
| **PSB** | Power Supply with Enclosure Box with Tunable White 0-10V Controller | **96W** | 96 Watts | **010** | 0-10 Volt Dimming | **24VDC** | 24 Volt DC | **2XK** | Tunable White | **TB** | T-Bar Grid Ceiling |
| | | **2X96W** | 2x96 Watts | | | | | | | **IW*** | In-Wall Kit |
| | | **3X96W** | 3x96 Watts | | | | | | | | |
| | | **4X96W** | 4x96 Watts | | | | | | | *96 watts only | |

### STANDARD & T-BAR DIMENSIONS

| | A | B |
|---|---|---|
| **PSB-96W-010-24VDC-2XK** | 6.48" | 12.15" |
| **PSB-2X96W-010-24VDC-2XK** | 10" | 14" |
| **PSB-3X96W-010-24VDC-2XK** | 13" | 17" |
| **PSB-4X96W-010-24VDC-2XK** | 13" | 17" |

PSB-96W-010-24VDC-2XK-IW

**B**

**A**

### IN-WALL DIMENSIONS

| | A | B |
|---|---|---|
| **PSB-96W-010-24VDC-2XK-IW** | 8.5" | 14.25" |

PSB-96W-010-24VDC-2XK-IW (IN WALL KIT)

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

**www.PureEdgeLighting.com** | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
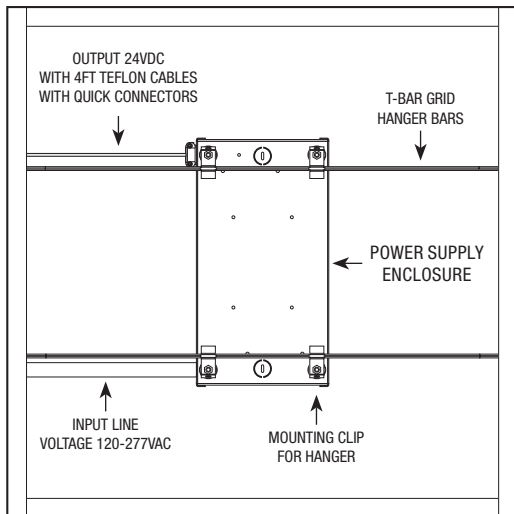For custom design and layout assistance, send drawings to **design@PureEdgeLighting.com**

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# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

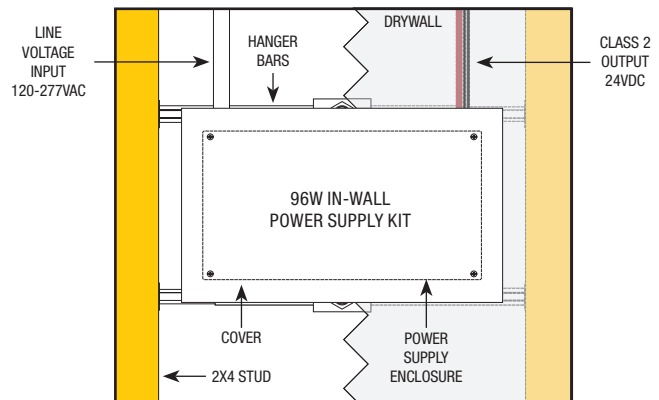24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

**PURE EDGE LIGHTING**

REV 08.02.21

**Application:** 0-10V dimming for Tunable White LED Strip/Fixture



TUNABLE WHITE STRIP/ FIXTURE

RED
BLACK
BLACK
RED

WARM+ YELLOW
VIN1+ RED
VIN1- BLACK
WARM- BLUE
COOL- BLUE
VIN2- BLACK
VIN2+ RED
COOL+ YELLOW

Tunable White LED PWM dimming module
Dimming range: 0-100%
0/1-10V control 1, 0/1V =0% light output
10V=100% light output
0/1-10V control2, 0/1V=100% warm
10V=100% cool
PWM Output to LED Modules (8-48V PWM, 1K Hz)

COLOR TEMP — PURPLE +
GRAY -
INTENSITY — GRAY -
PURPLE +

24VDC+
24VDC-

**24V POWER SUPPLY**

INPUT:
120-277V AC
L
N
GND

**PSB-96W-010-24VDC-2XK**

**0-10V Controller**
Control Input 1
(Dimming **Intensity**)

**0-10V Controller**
Control Input 2
(For **Color Temp**)

## T-BAR GRID CEILING



OUTPUT 24VDC
WITH 4FT TEFLON CABLES
WITH QUICK CONNECTORS

T-BAR GRID
HANGER BARS

POWER SUPPLY
ENCLOSURE

INPUT LINE
VOLTAGE 120-277VAC

MOUNTING CLIP
FOR HANGER

**PSB-96W-010-24VDC-2XK-TB**

## IN WALL KIT



LINE
VOLTAGE
INPUT
120-277VAC

HANGER
BARS

DRYWALL

CLASS 2
OUTPUT
24VDC

96W IN-WALL
POWER SUPPLY KIT

COVER

POWER
SUPPLY
ENCLOSURE

2X4 STUD

**PSB-96W-010-24VDC-2XK-IW**

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

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# TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES
## 24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

**PURE EDGE LIGHTING**

REV 08.02.21



**Side View JBox**



CDMX1-2XK-WH

Controller power adapter (Included)

Fits in a single gang 2.5" deep junction box

120-240VAC

DMX CABLE (BELDEN #9841)

Controller Power Adapter

120-277V

PSB-100W-24DVC-2XK (Sold Separately)

Tunable White Power Supply

GND

DRIVER

To Fixture

DMX data to next power/data supply
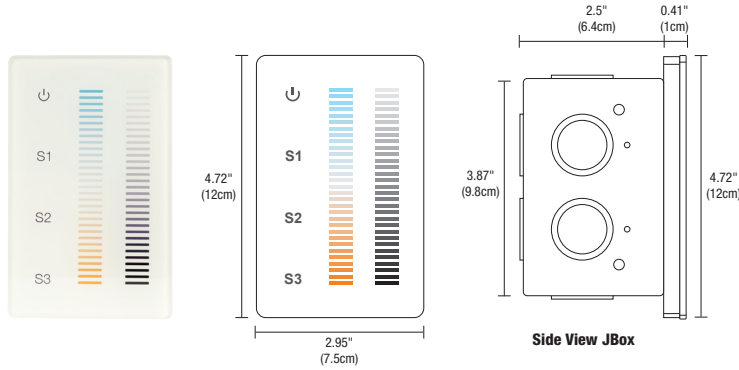
## DESCRIPTION:

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

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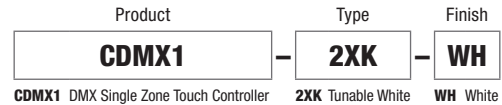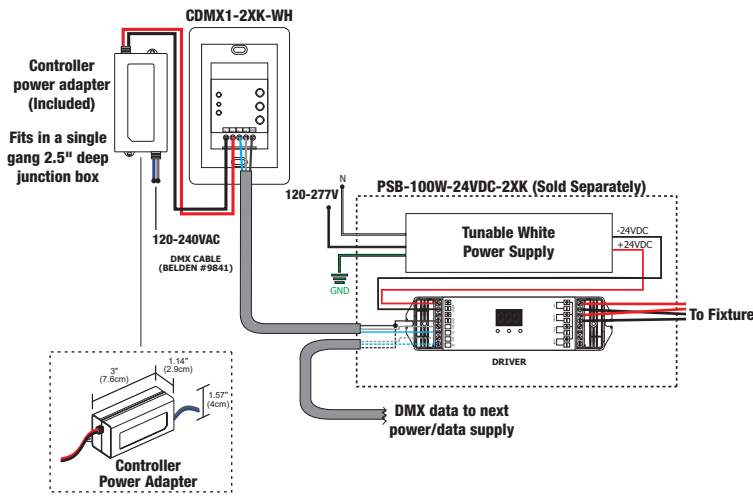Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

## POWER INPUT:
120-240VAC

## OUTPUT SIGNAL:
USITT DMX 512 (1990)

## LABELS:
ROHS, FCC, Damp Location, ETL/UL

| Product | Type | Finish |
|---|---|---|
| **CDMX1** – | **2XK** | **WH** |

CDMX1 DMX Single Zone Touch Controller
2XK Tunable White
WH White

## COLOR CHANGING (DMX) POWER SUPPLIES

| ORDERING CODE | PSB-100W-24VDC-2XK | PSB-2X100W-24VDC-2XK | PSB-3X100W-24VDC-2XK | PSB-4X100W-24VDC-2XK |
|---|---|---|---|---|
| |  |  |  |  |

### SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **MAXIMUM LOAD OF LED STRIP LENGTH** | 100W<br>5 WATTS - 20FT MAX.<br>10 WATTS - 10FT MAX. | 2X100W<br>5 WATTS 2 X 20FT MAX.<br>10 WATTS - 2 X 10FT MAX. | 3X100W<br>5 WATTS 3 X 20FT MAX.<br>10 WATTS - 3 X 10FT MAX. | 4X100W<br>5 WATTS 4 X 20FT MAX.<br>10 WATTS - 4 X 10FT MAX. |
| **INPUT VOLTAGE** | 120-277VAC | 120-277VAC | 120-277VAC | 120-277VAC |
| **OUTPUT VOLTAGE** | 24VDC | 24VDC | 24VDC | 24VDC |
| **DIMENSIONS** | 12.4" X 6.48" X 2.18" | 14" X 10" X 3" | 17" X 10" X 3" | 17" X 10" X 3" |
| **CLASSIFICATION** | CLASS 2 | CLASS 2 | CLASS 2 | CLASS 2 |
| **T-BAR MOUNTING** | PSB-100W-24VDC-2XK-TB | PSB-2X100W-24VDC-2XK-TB | PSB-3X100W-24VDC-2XK-TB | PSB-4X100W-24VDC-2XK-TB |
| **IN-WALL MOUNTING** | PSB-100W-24VDC-2XK-IW | NA | NA | NA |

### DMX TUNABLE WHITE DIMMING & CONTROLS

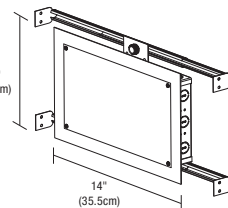| | | | | |
|---|---|---|---|---|
| **TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)** | • | • | • | • |

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

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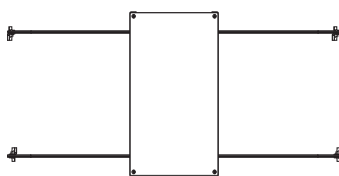


**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.
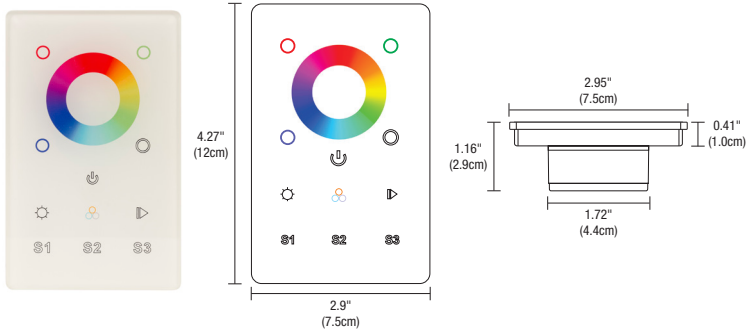
**Ordering Codes:**
PSB-100W-24VDC-2XK-TB
PSB-2x100W-24VDC-2XK-TB
PSB-3x100W-24VDC-2XK-TB
PSB-4x100W-24VDC-2XK-TB



**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

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

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# DMX SINGLE ZONE RGB & RGB+W
## TOUCH CONTROLLER

PURE EDGE LIGHTING

4.27" (12cm)

2.9" (7.5cm)

2.95" (7.5cm)

1.16" (2.9cm)

0.41" (1.0cm)

1.72" (4.4cm)

**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

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

**Power Input:**
120-277VAC

**Output Signal:**
USITT DMX 512 (1990)

| Product | Type | Finish |
|---|---|---|
| **CDMX1** | **RGBW** | **WH** |
| **CDMX1** DMX 1 Zone Touch Controller | **RGBW** RGB & RGBW | **WH** White |

CDMX1-RGBW

CONTROLLER POWER ADAPTER

DMX CABLE (BELDEN #9841)

PSB-100W-24VDC-RGB

POWER SUPPLY

N
L
GND

+24V
-24V

DRIVER

DMX DATA TO NEXT POWER/DATA SUPPLY

UPLIGHT RGB LED SOFT STRIP

DOWNLIGHT LAZER STRIP

INPUT 120-277 VAC

N
GND
LINE

ELV DIMMER
DOWNLIGHT STATIC WHITE

N

GND

UNI POWER SUPPLY

DO NOT USE 0-10V WIRES

RED (+24VDC)

RED (+24VDC)

BLACK (-24VDC)

BLACK (-24VDC)

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

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

Classification: UL2108 - * 24VDC over 100 Watts, wires must be in conduit from Remote Power Supply to J-box.
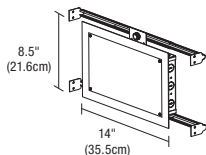
8.5" (21.6cm)

14" (35.5cm)

### 8.5" X 14" IN-WALL MOUNTING KIT

Includes Power Supply, Box Cover, and Stud Hangers for installing Junction Box in wall. Select "IW" in the options section of compatible Power Supply ordering codes if an In-Wall Mounting Kit is needed.

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

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

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# INDOOR DMX RGB/RGBW 24VDC CONSTANT VOLTAGE
24VDC WITH DMX DRIVER, RGB & RGB+W

PURE EDGE LIGHTING

REV 08.02.21

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

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

## RECOMMENDED CONTROLLERS
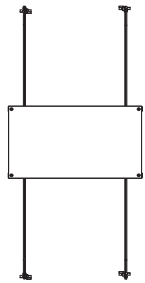
### T-BAR MOUNTING KIT
Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.
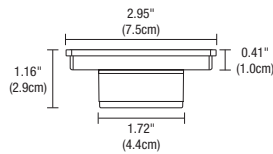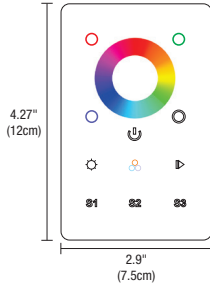
**ORDERING CODES:** PSB-100W-24VDC-RGB-TB
PSB-2X100W-24VDC-RGB-TB
PSB-3X100W-24VDC-RGB-TB
PSB-4X100W-24VDC-RGB-TB

### 8.5" X 14" IN-WALL MOUNTING KIT

8.5"
(21.6cm)

14"
(35.5cm)
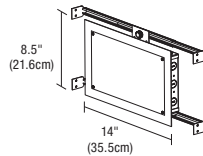
Includes Power Supply, Box Cover, and Stud Hangers for installing Junction Box in wall. Use ordering code in the In-Wall Mounting row of the specification table if an In-Wall Mounting Kit is needed.

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

4.27"
(12cm)

1.16"
(2.9cm)

2.9"
(7.5cm)

S1  S2  S3

2.95"
(7.5cm)

0.41"
(1.0cm)

1.72"
(4.4cm)

### DESCRIPTION
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 1 zone controller can adjust 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.
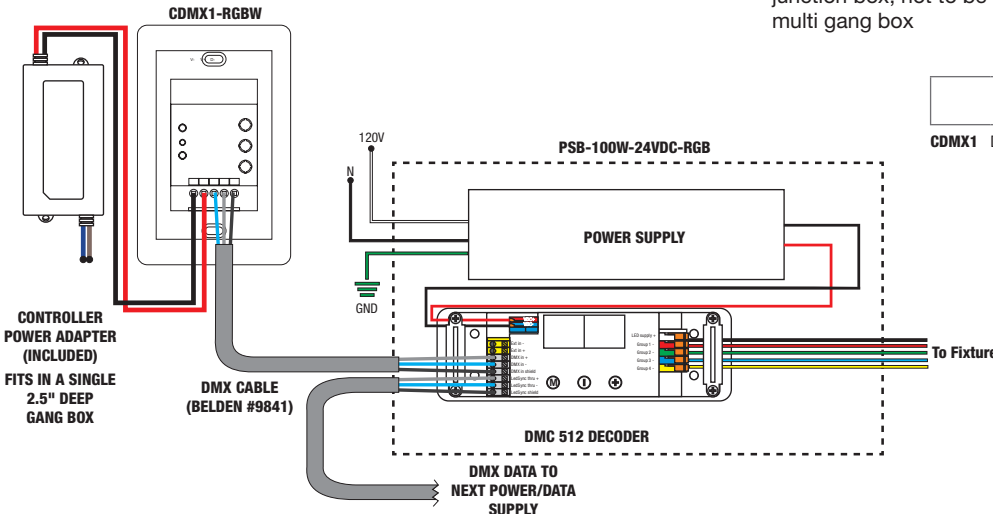
### APPLICATIONS
Indoor

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

### POWER INPUT
120-277VAC

### OUTPUT SIGNAL
USITT DMX 512 (1990)

| Product | | Type | | Finish |
|---|---|---|---|---|
| **CDMX1** | – | **RGBW** | – | **WH** |
| CDMX1  DMX 1 Zone Touch Controller | | RGBW  Red, Green, Blue and White | | WH  White |

CDMX1-RGBW

120V

N

PSB-100W-24VDC-RGB

POWER SUPPLY

GND

To Fixture

CONTROLLER POWER ADAPTER (INCLUDED)

FITS IN A SINGLE 2.5" DEEP GANG BOX

DMX CABLE (BELDEN #9841)

DMC 512 DECODER

DMX DATA TO NEXT POWER/DATA SUPPLY

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

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# CTP
## COLOR TOUCH SCREEN CONTROLLER WITH POWER ADAPTER

**PURE EDGE**
LIGHTING

4.17"
(106 mm)

5.75"
(146 mm)

4.17"
(106 mm)

0.4"
(10 mm)

5.75"
(146 mm)

0.4"
(10 mm)
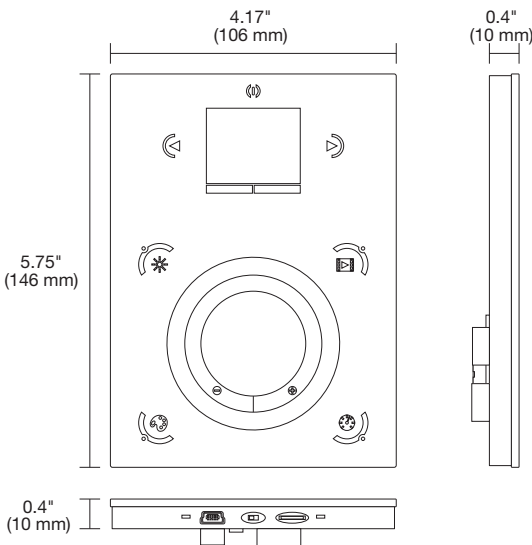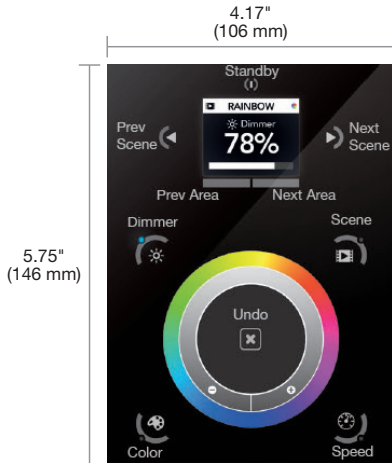
## DESCRIPTION
Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 10 zone controller can adjust RGB and RGBW LEDs smoothly and accurately. Independent smooth dimming of each channel enables the controller to achieve millions of colors. For indoor applications only, and includes a Power Adapter to operate the controller.

## 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 |
|---|---|---|
| **CTP** | - | **BK** |

CTP Color Touch Screen Controller with Power Adapter

BK Black
WH White

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

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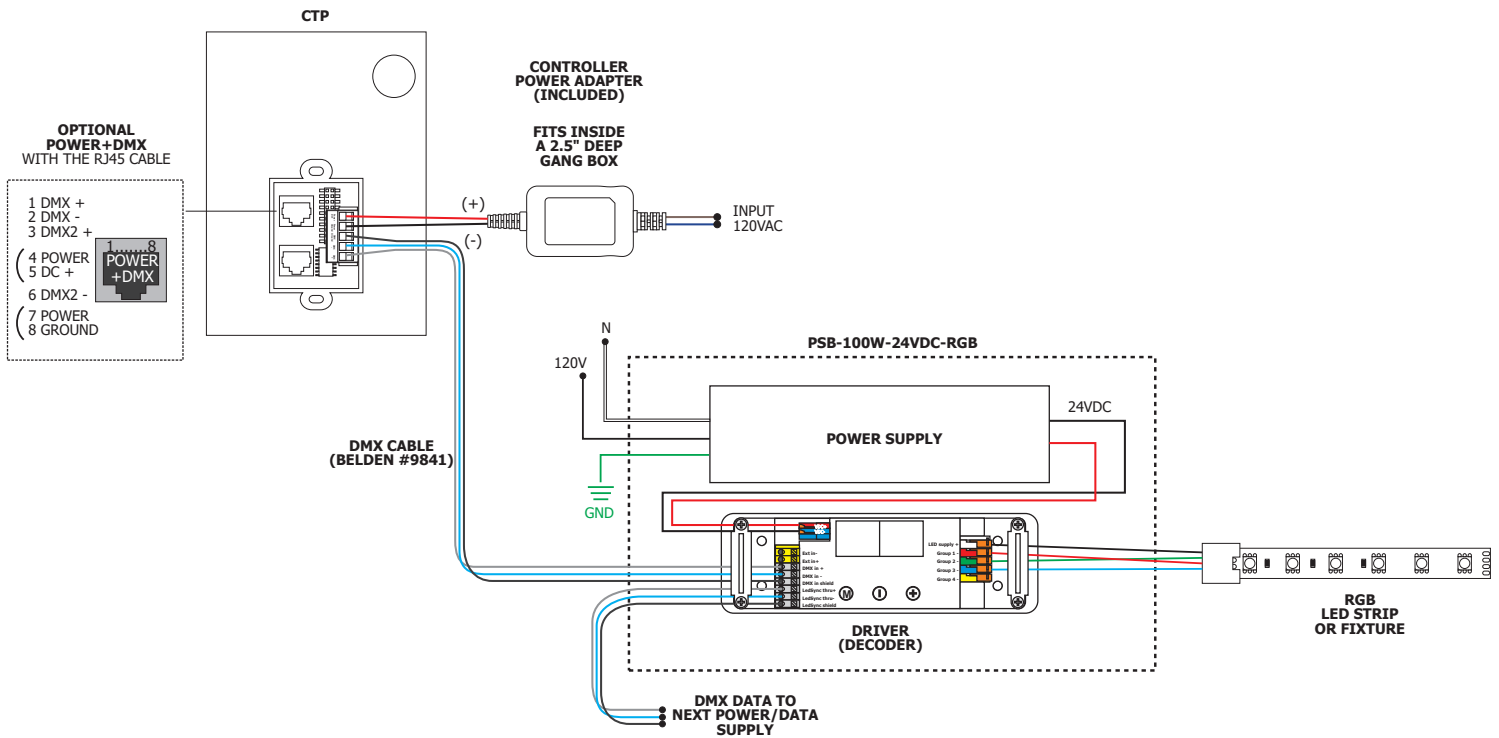
# RGB Wiring Diagram



# Tunable White Wiring Diagram



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

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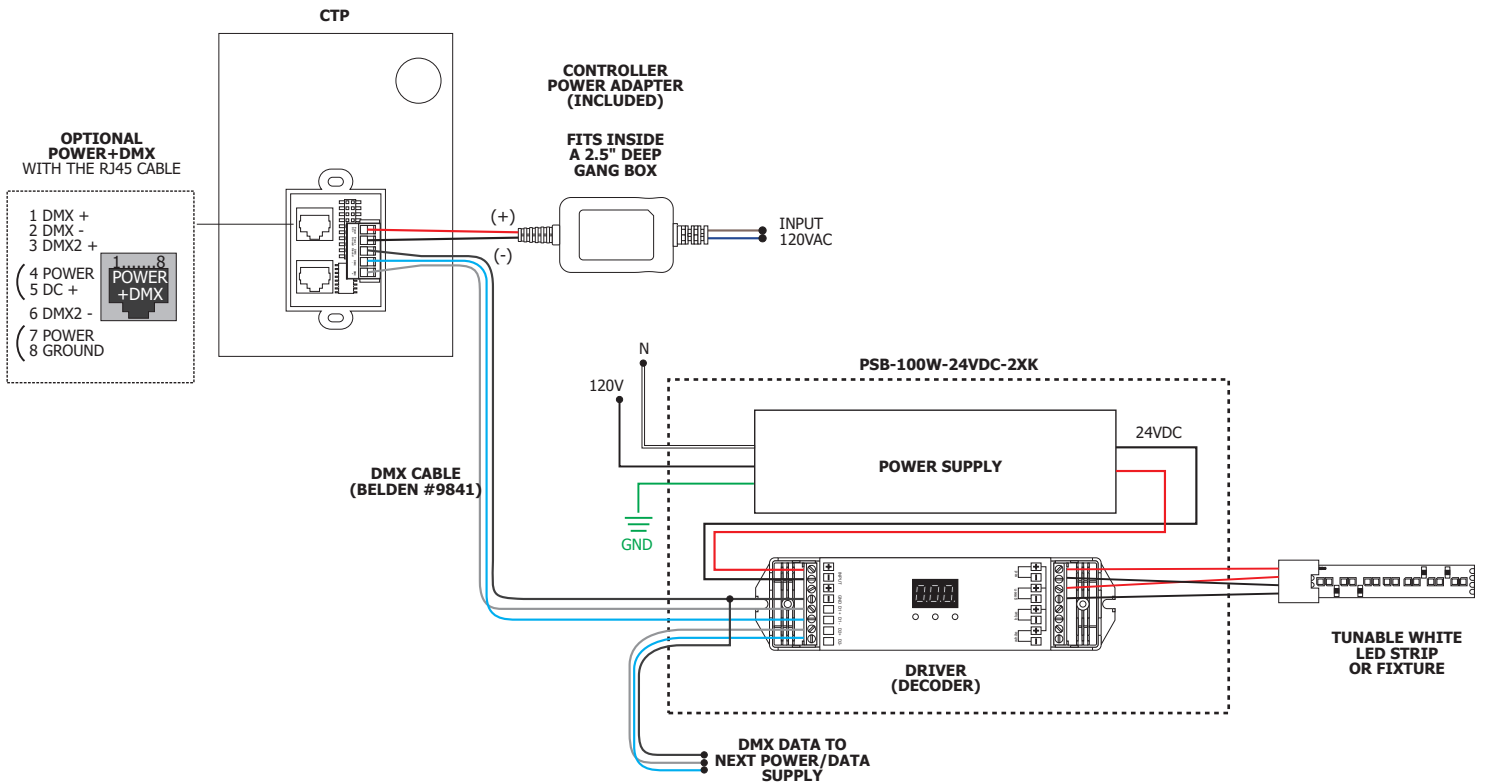
# SUSPENSION TM30 DATA
## SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

**TM-30-15 DATA:** The data below is for Lazer Strip 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.
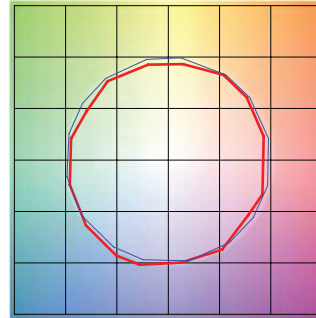
### 2400K | Rf: 91.2 | Rg: 96.8
Color Vector Graphic
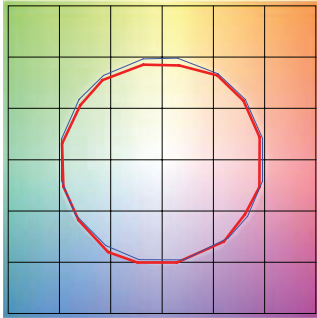


■ Test ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % 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

| HUE BIN | Rf | GRAPHIC SHIFTS % 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
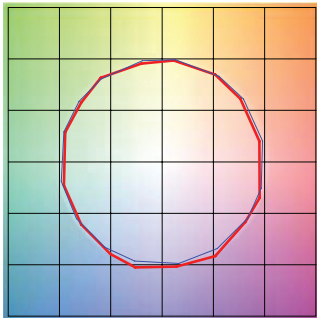


■ Test ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % 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
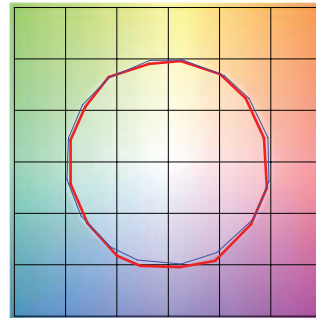


■ Test ■ Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % 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% |

### 2000K ONLY (2K6K) | Rf: 84.3 | Rg: 96.9
Color Vector Graphic
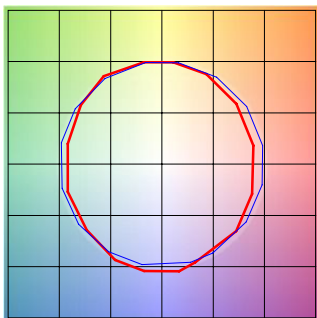


■ Test ■ Reference

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

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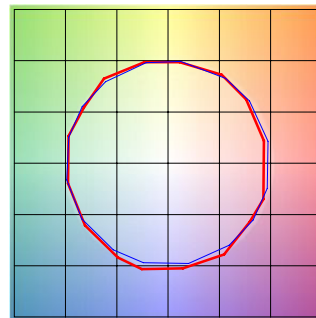


■ Test ■ Reference

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

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

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**TM-30-15 DATA:** The data below is for Lazer Strip 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.

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

Color Vector Graphic
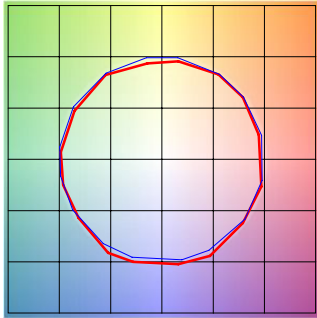


■ Test  ■ Reference

| 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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