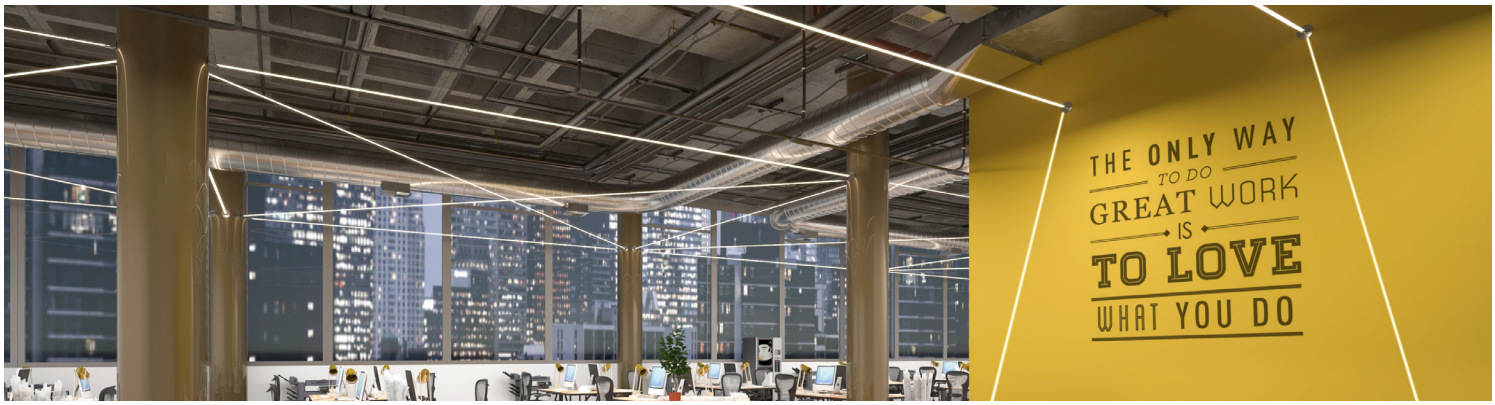
LAZER LINE DIRECT OR DIRECT/INDIRECT

SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

DESIGNED BY DEREK PORTER & GREGORY KAY | ASSEMBLED IN AMERICA | PAT. US 9,033,541 B2

REV 05.15.25



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 4" round turnbuckles allow Lazer Line to be positioned 0-90º 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 0.6" wide, channel that spans opposing surfaces. The channel is easily cut in the field. For longer runs, feed power from both ends. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com .

APPLICATIONS

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

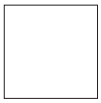
LUMEN PERFORMANCE AT 3000K 5W/FT

(Refer to page 2 for full lumen data)

LUMEN OUTPUT	370 lm/ft
EFFICIENCY	76 lm/w
CRI	95+
Rf	88
Rg	99
BEAM ANGLE	120°

FINISHES

Satin Black **BK**



Cool White **CW**

SPECIFICATIONS

INPUT VOLTAGE	24VDC remote power
POWER CONSUMPTION	LZ: 3 or 5 w/ft 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' LZUD: 6W-30' 10W-20' with power feeds at both ends
MOUNTING:	4.5" Diameter, Flush mount, adjustable turnbuckles included
TURNBUCKLE FINISH:	Paintable Black or White Powder Coat
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 (SOLD SEPARATELY)

24VDC, Class 2 wiring

Static White & Monochromatic Color

- Pure Smart™ WiZ Pro Power Supplies & Controls
- UNI Driver: Universal Dimming (**TRIAC, ELV, 0-10V**)
  ELV & TRIAC Smart Dimmer & Switch

Tunable White

- Pure Smart™ WiZ Pro Power Supplies & Controls
- 0-10V Requires two dimmers, one for intensity and one for color temperature
- DMX & Controls
- DALI/DALI-2

RGB

- DMX & Controls
- DALI/DALI-2

*In-Wall Mounting and drop ceiling Kits available for select 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	PW

LZ Lazer Line 0.6" with Single Row Lazer Strip

3W 3.3 Watts/ft up to 60 ft (power feeds at both ends)
5W 4.4 Watts/ft up to 40 ft (power feeds at both ends)

Power Feeds at one end:
3W max length 30ft
5W max length 20ft

1-60 1-60 Feet

24KZ 2400K Amber White
27KZ 2700K Very Warm White
30KZ 3000K Warm White
35KZ 3500K Neutral White
40KZ 4000K Cool White
RGB Red, Green and Blue (5W Only)
RZ Red
GZ Green
BZ Blue
AZ Amber
2K4K Tunable White 2000K-4000K (5W Only)

BK Black
PW Pure White RAL 9016

Down Only

Up Only

PROJECT		FIXTURE TYPE		DATE	

LAZER LINE DIRECT OR DIRECT/INDIRECT

SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

REV 05.15.25

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**	**PW**

LZUD Lazer Line 0.6" 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

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 Only)
RGB Red, Green and Blue (5W Only)
RZ Red
GZ Green
BZ Blue
AZ Amber

24KZ 2400K Amber White
27KZ 2700K Very Warm White
30KZ 3000K Warm White
35KZ 3500K Neutral White
40KZ 4000K Cool White
2K4K Tunable White 2000K-4000K (5W Only)
RZ Red
GZ Green
BZ Blue
AZ Amber
RGB Red, Green and Blue (5W Only)
RGBW Red, Green, Blue & White (6W Only)

BK Black
PW Pure White RAL 9016

24KZ - 2400K Amber White

27KZ - 2700K Very Warm White

30KZ - 3000K Warm White

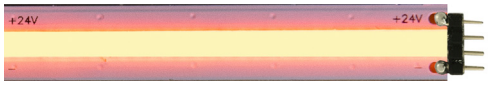
35KZ - 3500K Neutral White

40KZ - 4000K Cool White

RZ - Red

BZ - Blue

GZ - Green

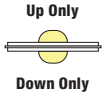


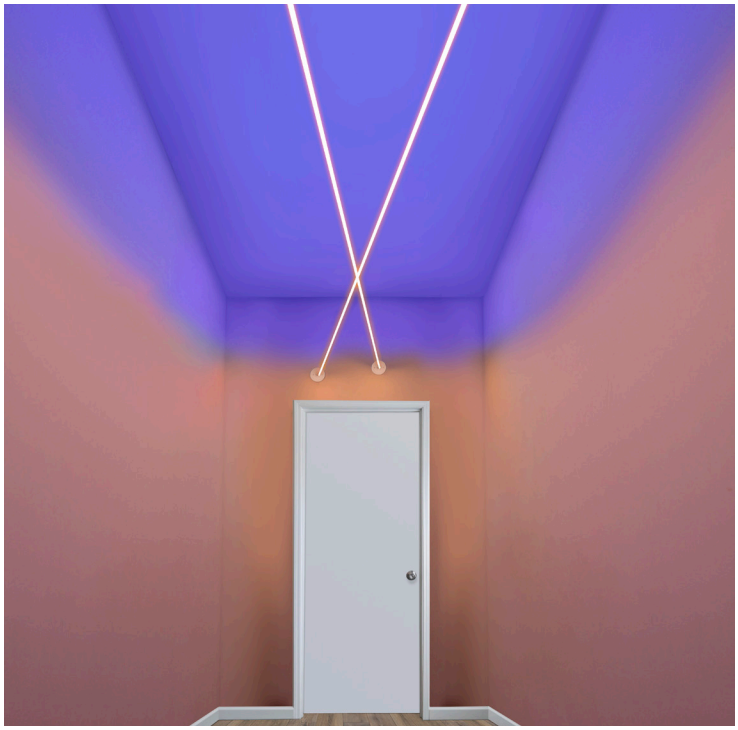
AZ - Amber

2K4K - 2000K-4000K Tunable White (5W only)

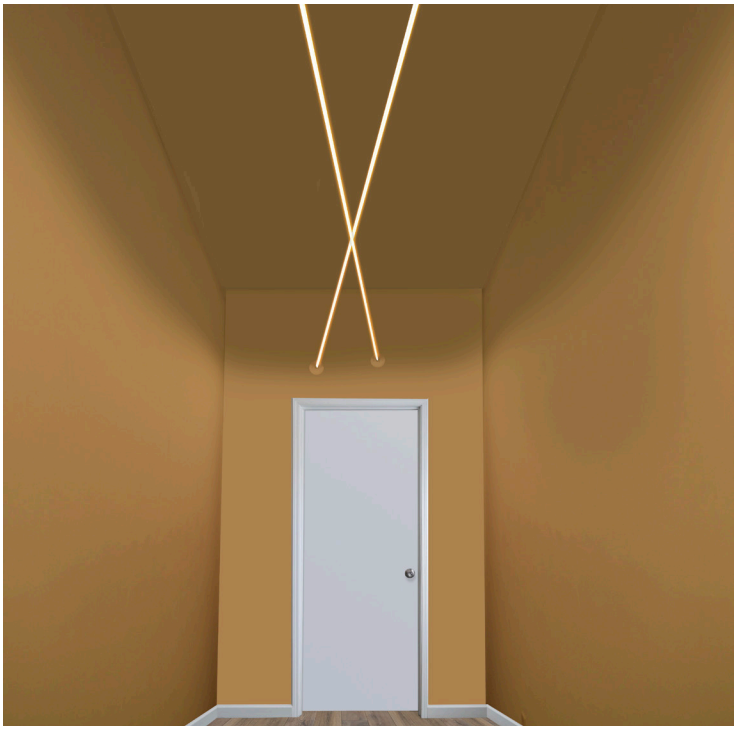
RGB - Red, Green and Blue (5W only)

RGBW - (6W, Uplight Only)





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



LAZER LINE DOWN (27K)

PROJECT		FIXTURE TYPE		DATE	

LAZER LINE DIRECT OR DIRECT/INDIRECT

SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

REV 05.15.25

NOMINAL DELIVERED LUMENS

DESCRIPTION	**STATIC WHITE**							
WATTS PER FOOT	LS3 (3.3 watts)				LS5 (4.4 watts)			
COLOR TEMPERATURE	24K	27K	30K	35K	24K	27K	30K	35K
LUMENS PER FOOT (lm/ft)	253	269	361	363	318	338	454	456
LUMENS PER WATT (lm/w)	77	82	109	110	72	77	103	104

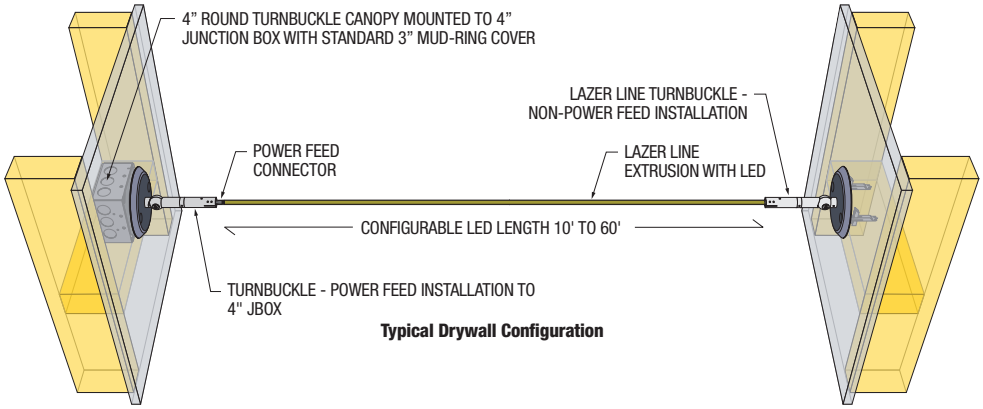
	TUNABLE WHITE						
WATTS PER FOOT	LS5 (4.4 watts)						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	138	196	254	312	370	303	236
LUMENS PER WATT (lm/w)	54	63	69	73	76	82	93
CRI	94	96	96	96	96	96	93

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

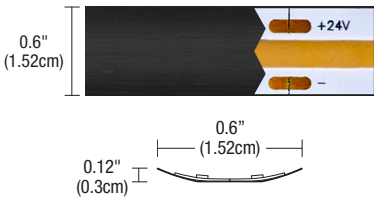
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TOTAL WATTAGE	3.3	6.6	10	13.2	15	16.5	19.8	16.5	23.1	26.4	29.7	33	36.3	39.6	42.9	46.2	49.5	52.8	56.1	59.4	62.7	66	69.3	72.6	75.9	79.2	82.5	85.8	89.1	92.4

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

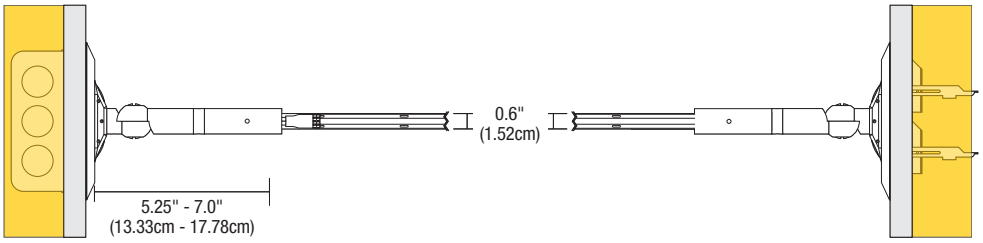
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TOTAL WATTAGE	5	10	15	20	24	29	34	39	44	48	53	58	63	68	72	77	82	87	92	96



Typical Drywall Configuration

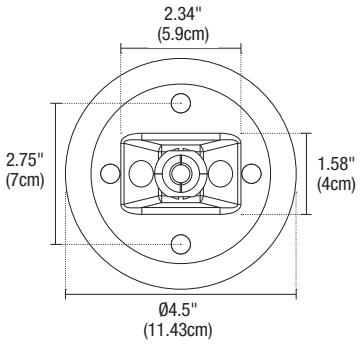


Lazer Line Stainless Steel Tape
(Black Finish Shown)



Turnbuckle - Power Feed Installation

Turnbuckle - Non-Power Feed Installation
(If Applicable)



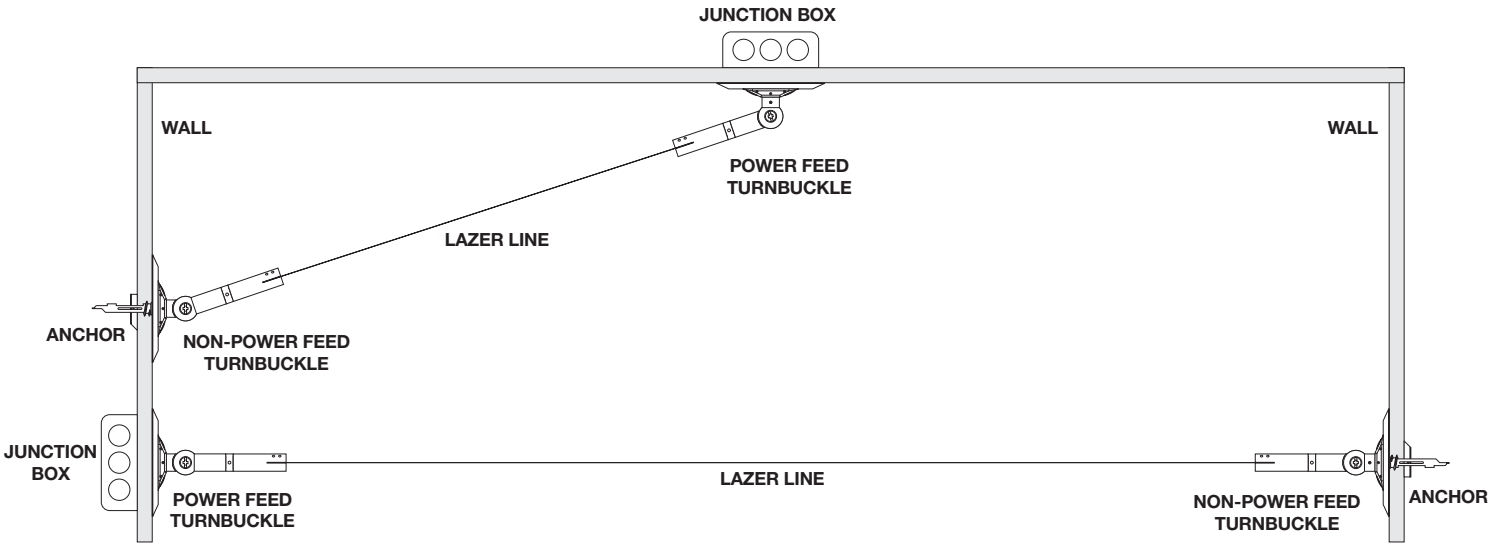
Ø 4.5" Turnbuckle Canopy

PROJECT		FIXTURE TYPE		DATE	

LAZER LINE DIRECT OR DIRECT/INDIRECT

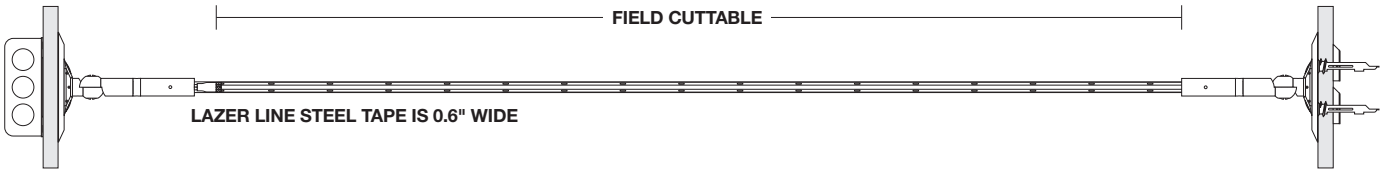
SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

REV 05.15.25



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	

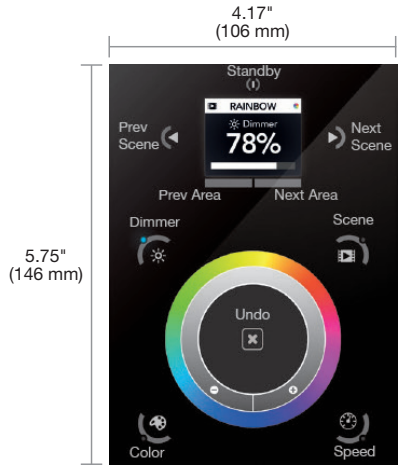
Lengths over 100 watt, require feeding from both ends.

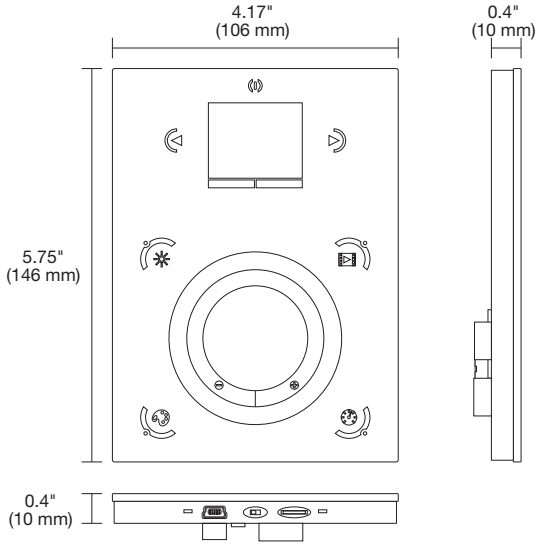


PROJECT		FIXTURE TYPE		DATE	

CTP

COLOR TOUCH SCREEN CONTROLLER FOR RGBTW, TUNABLE WHITE, RGB & RGB+W





REV 05.15.25

DESCRIPTION

Full touch controller offers fast and accurate color tone adjustment and independent brightness control. The 10 zone controller can adjust RGBTW, 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. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com .

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

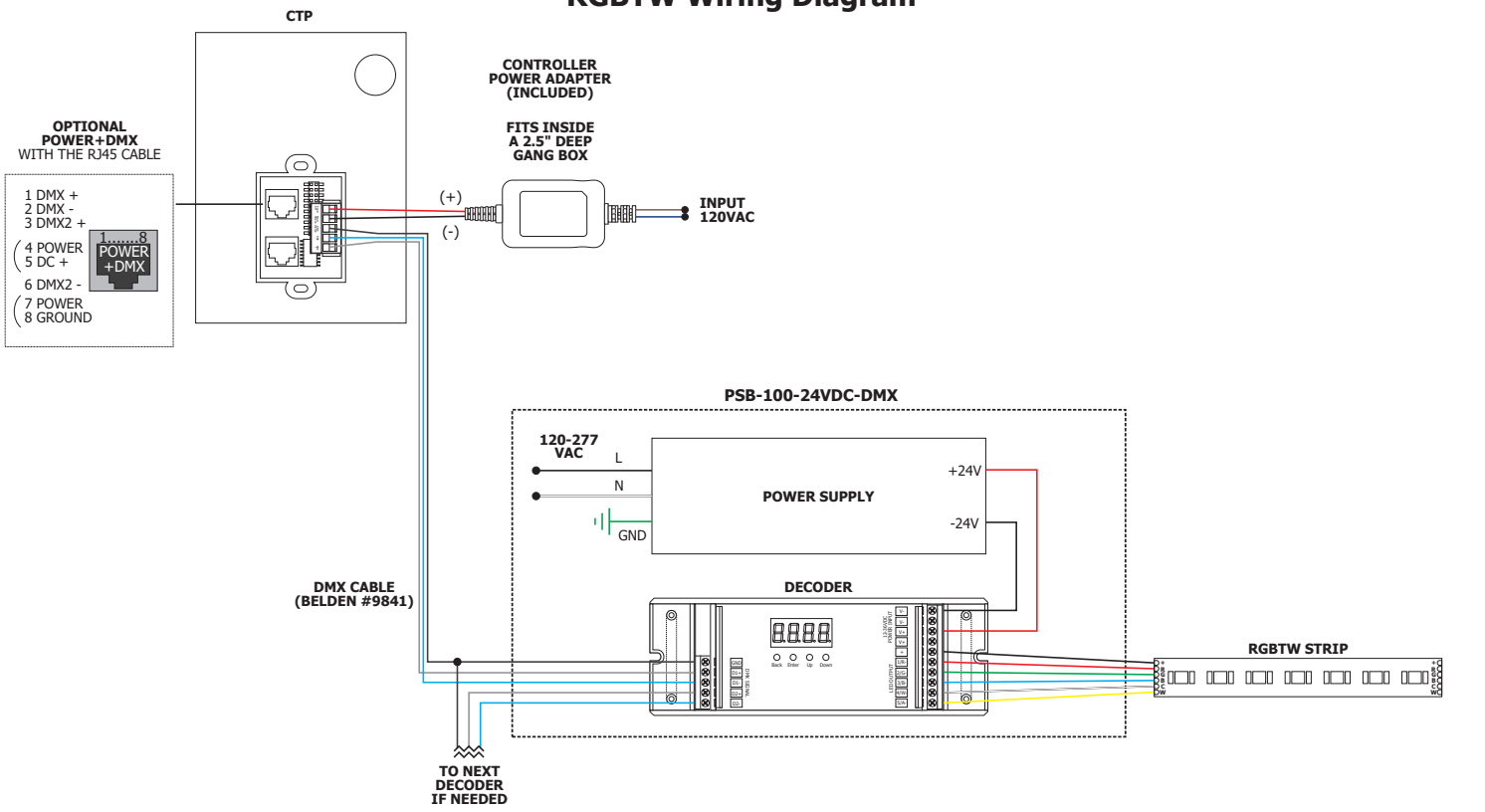
PROJECT		FIXTURE TYPE		DATE	

CTP

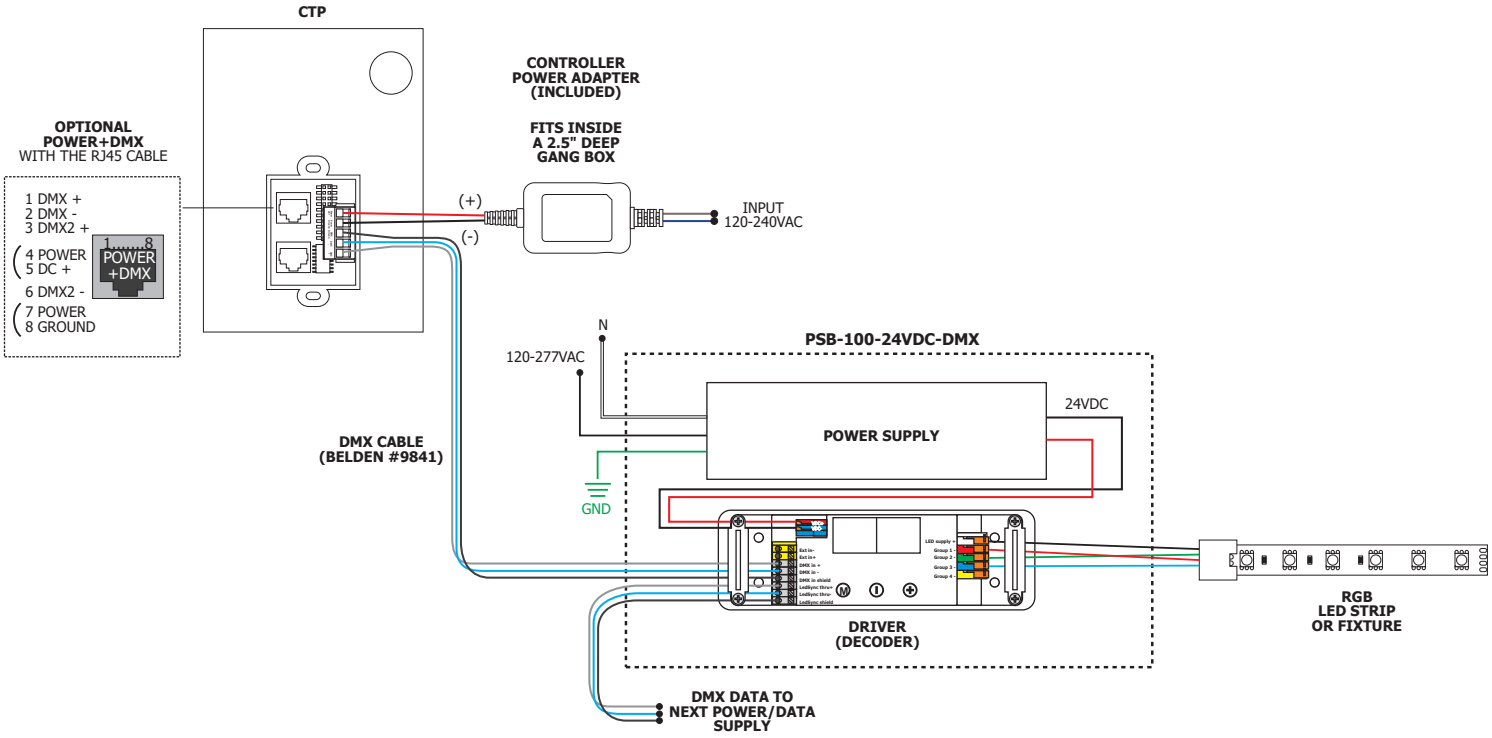
COLOR TOUCH SCREEN CONTROLLER FOR RGBTW, TUNABLE WHITE, RGB & RGB+W

REV 05.15.25

RGBTW Wiring Diagram



RGB Wiring Diagram



PROJECT		FIXTURE TYPE		DATE	

PureEdge Lighting reserves the right to modify this specification without prior notice

SUSPENSION TM30 DATA

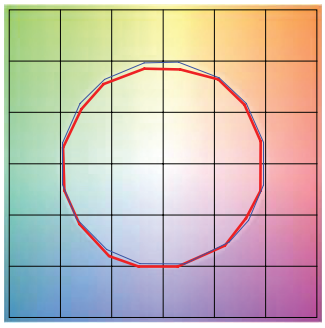
SUSPENDED LED LIGHTING SYSTEM, 24VDC - REMOTE POWER

REV 05.15.25

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

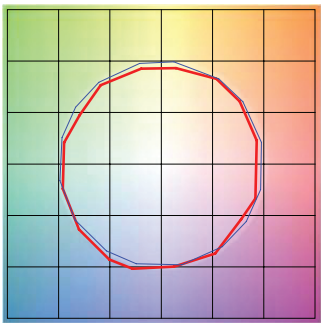
Color Vector Graphic



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

2700K | Rf: 87.7 | Rg: 96.1

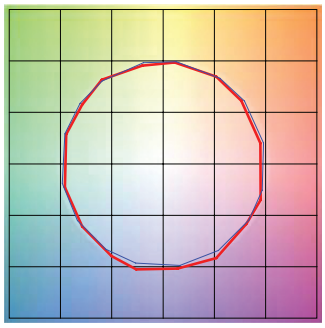
Color Vector Graphic



		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

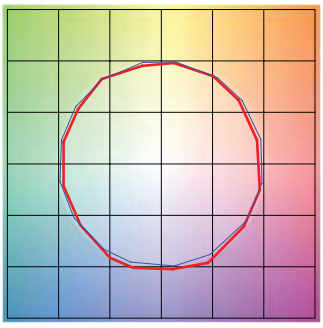
Color Vector Graphic



		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

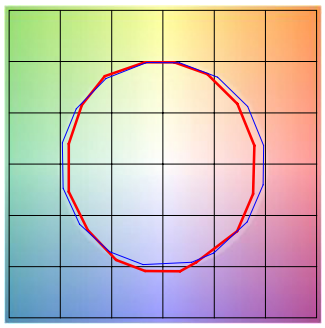
Color Vector Graphic



		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%

2000K ONLY (2K6K) | Rf: 84.3 | Rg: 96.9

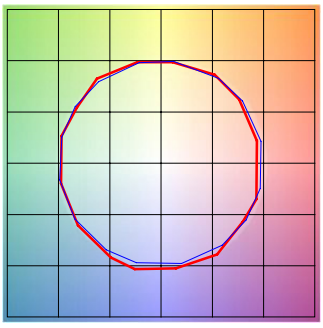
Color Vector Graphic



		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) | Rf: 90.2 | Rg: 101.4

Color Vector Graphic



		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%

PROJECT		FIXTURE TYPE		DATE	