

TRULINE TRUQUAD 1A

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 08.05.24



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. TruQuad 1A is offered in a broad range of wattages and static color temperatures: **2400K-4000K**. Coordinate installation with electrician and drywall contractors. Includes a 5-year pro-rated warranty.

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 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.

MAXIMUM LENGTHS BEFORE RE-FEEDING:

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

INCLUDED COMPONENTS

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

LAMP

- Static White Color Temperatures ranging from **2400K-4000K**
- Designer Grade High CRI 95+ LEDs
- Average life: 50,000 hours

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

24VDC, Class 2 wiring

Static White

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

Lutron

- [Lutron](#) Hi-Lume/Ecosystem

APPLICATIONS

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

COMPLIANCE

Title 24 JA8 listed for 2700K CCT and above when used with PureEdge remote Universal power supplies, ETL, Class 2, Damp Location, Made in USA.

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

System	Watts Per Foot	Length x Width	Color Temperature
TL1A	2W	6 x 480	ST27K
TL1A TruLine 1A	2W 2.5 Watts (480" Max) 5W 5 Watts (240" Max) 7W 7.5 Watts (144" Max)	6" - 480" (1" increments) per side	ST24K 2400K Very Warm White ST27K 2700K Incandescent White ST30K 3000K Warm White ST35K 3500K Neutral White ST40K 4000K Cool White

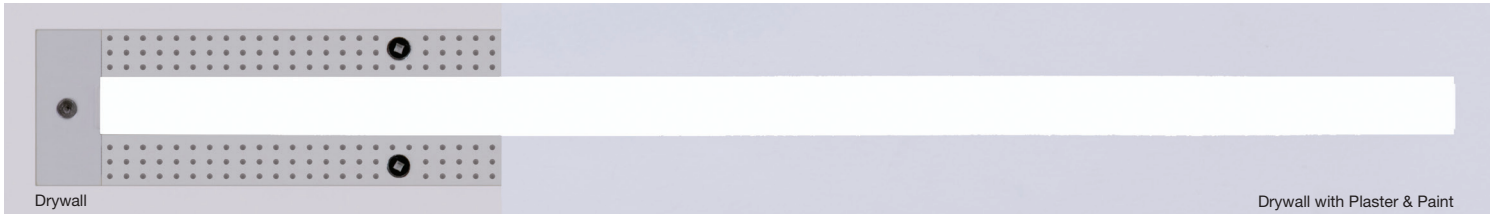
PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

TRULINE TRUQUAD 1A

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

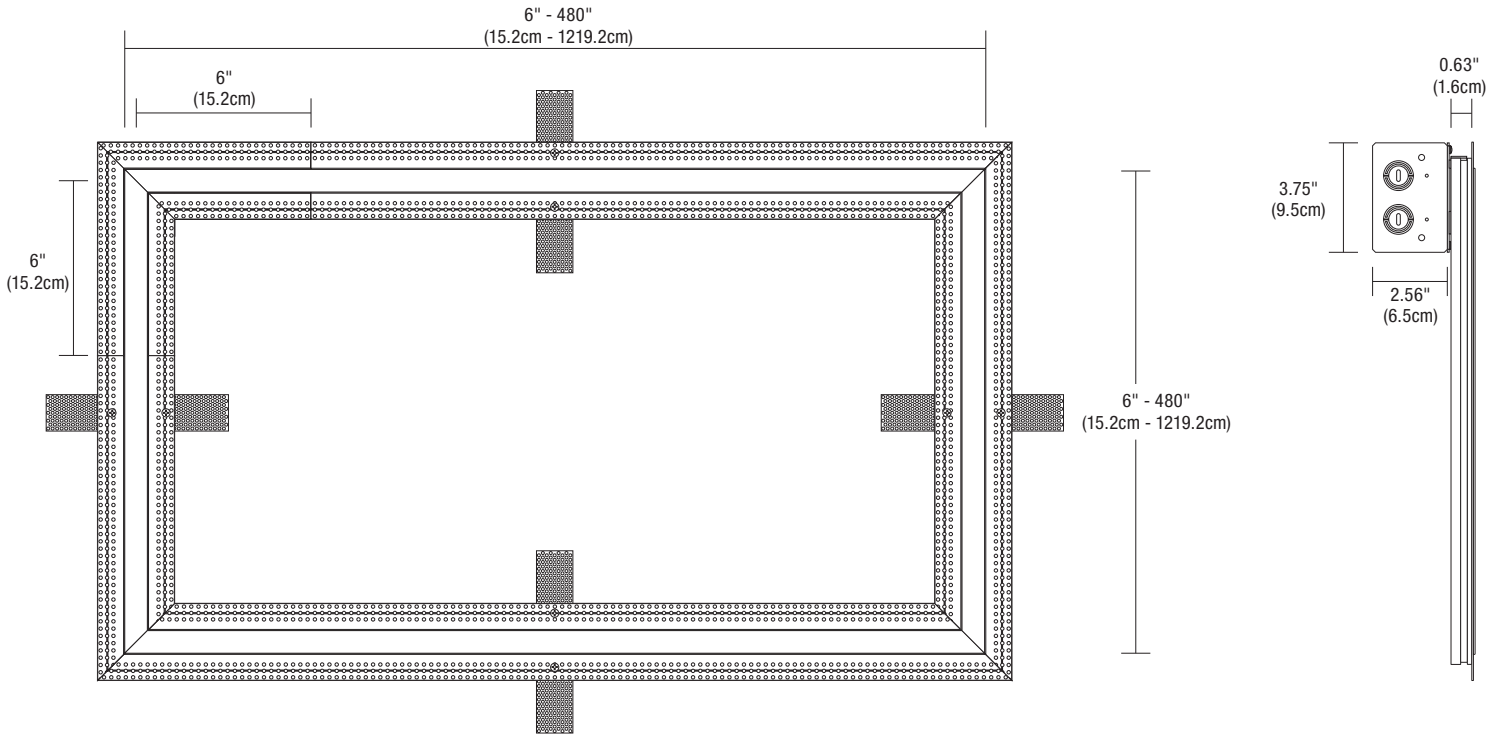
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 08.05.24



NOMINAL LAMP DATA

WATTS PER FOOT	2.5W					4.4W					7.5W				
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	190	192	200	229	241	350	354	369	423	446	541	547	570	654	689
LUMENS PER WATT (lm/w)	76	77	80	92	97	80	80	84	96	101	74	75	78	90	94
CRI	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+

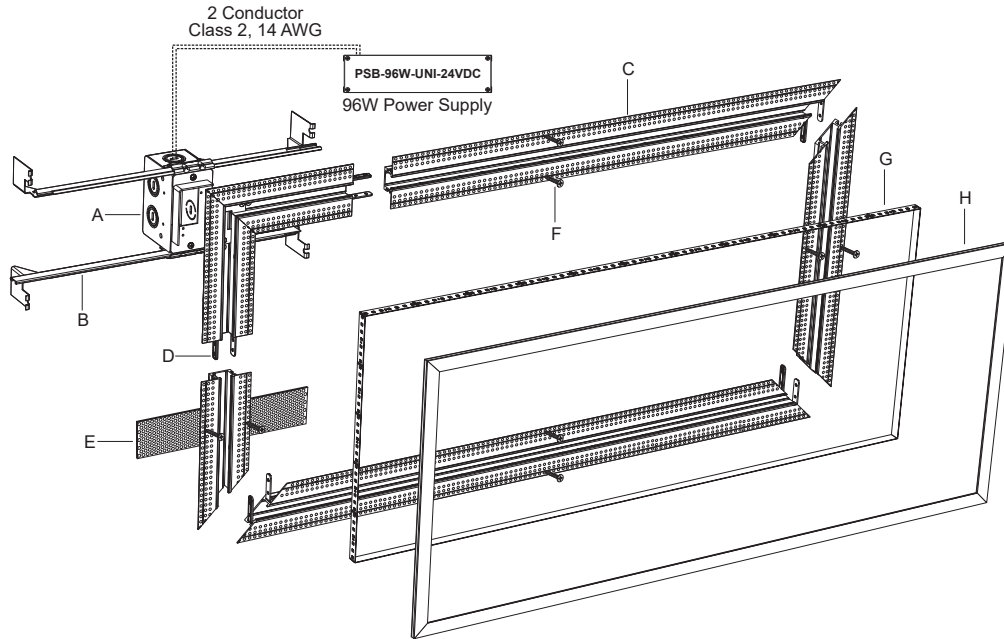


PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

TRULINE TRUQUAD 1A

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

INCLUDED COMPONENTS



A. JUNCTION BOX (INCLUDED)

Mounts to the framing with the included Adjustable Mounting Bars. 24VDC, Class 2, low voltage wires.

B. ADJUSTABLE MOUNTING BARS

Provide flexibility for mounting in a variety of spaces and orientations. May be secured to studs that are spaced 13"-24" apart.

C. TRUQUAD 1A CHANNEL

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

D. CHANNEL JOINERS

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

E. MOUNTING STRAP

Secures channel to drywall when wall stud is unavailable.

F. DRYWALL SCREW

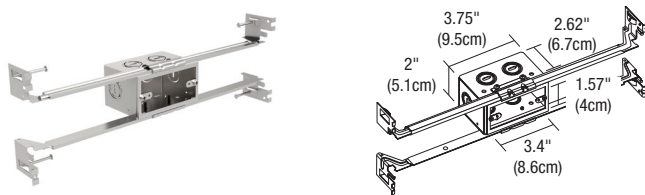
Secures channel to drywall and stud.

G. LED STRIP

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

H. LENS

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



JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with one power connector. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available. See DIY Spec Sheet for all component options.

System	Size	Component
TL1A	1LP	JBOX
TL1A TruLine 1A	1LP 1" Rectangle	JBOX Junction Box



Static White
(Warm Dim & Monochromatic Color Compatible)

POWER FEED/FLEXIBLE CONNECTOR INCLUDED WITH TRULINE TRUQUAD ORDERING CODE

(Included with TruLine TruQuad ordering code)

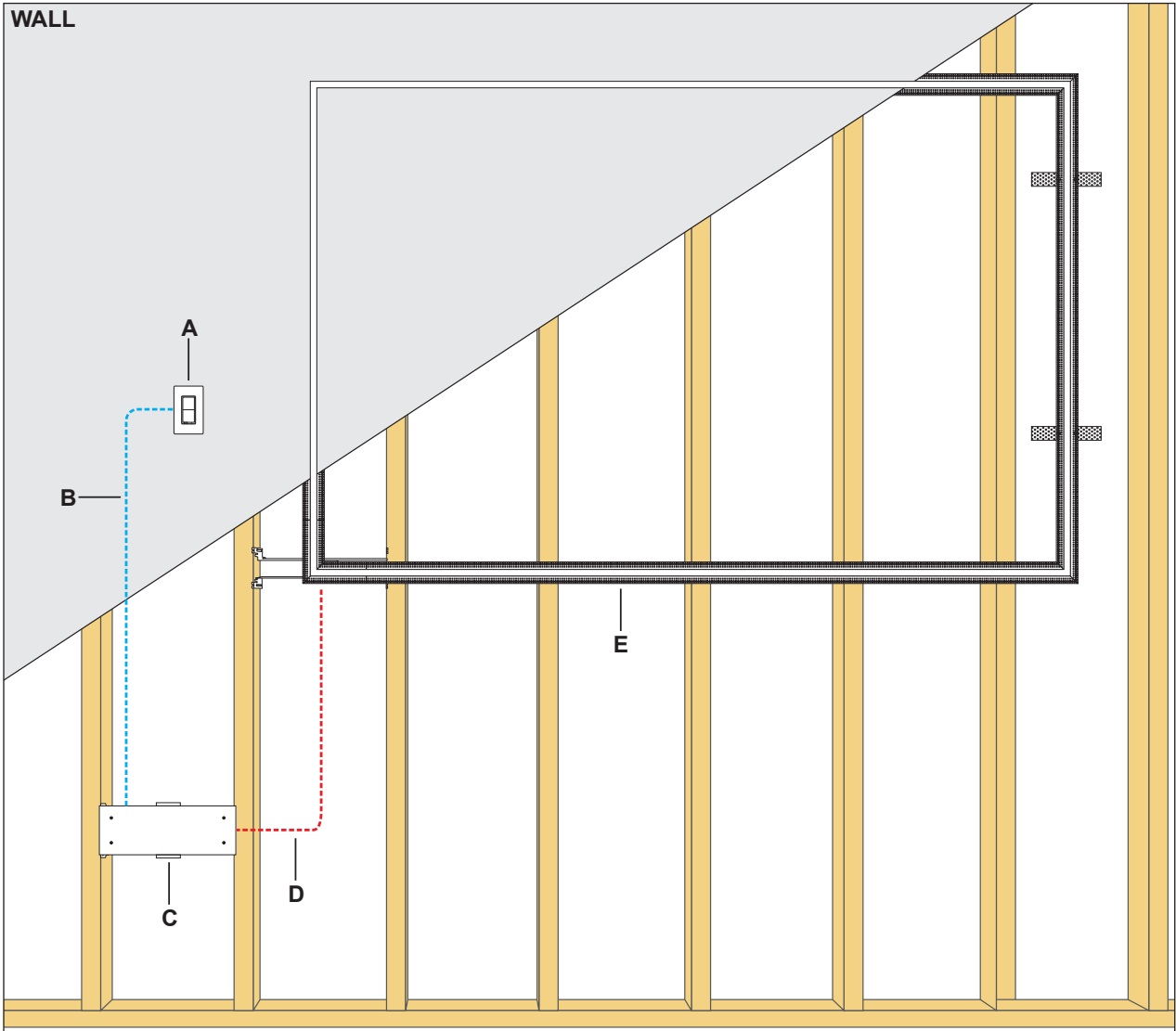
Included with Power Feed components. Part numbers listed below to be ordered for replacement only. For use with RGBTW. Flexible Power Connectors link two sections of LED Strip end to end. To use as a Power Feed cut off the male end, and connect to the power supply. Ordering Code below is to be used for replacement parts.

Product	Type	Component	Orientation	Size	Color Temperature
SS	FE	CON	LBL	6IN	DW
SS Stomp Strip/Soft Strip	FE Female Pins	CON Connector	LBL L Connector Bendable 90° Left LBR L Connector Bendable 90° Right	6IN 6 inches	DW Static White

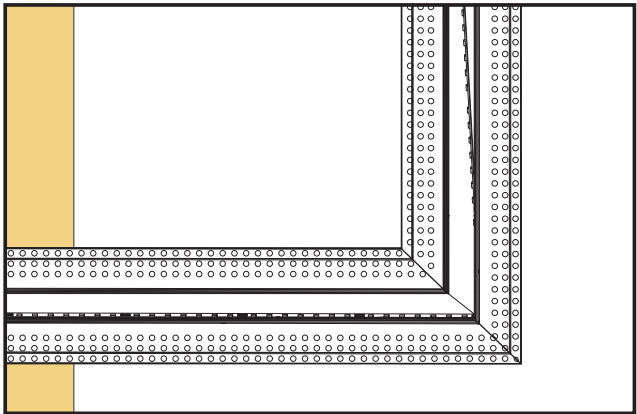
PROJECT	FIXTURE TYPE	DATE
---------	--------------	------

TRULINE TRUQUAD 1A 24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

INSTALLATION



- A. DIMMER OR SWITCH**
- B. 120VAC WIRING**
- C. 120/24VDC POWER SUPPLY
WITH IN-WALL MOUNTING KIT SHOWN**
- D. 24VDC, CLASS 2 WIRING**
- E. TRUQUAD CHANNEL, LENS & LED STRIP**



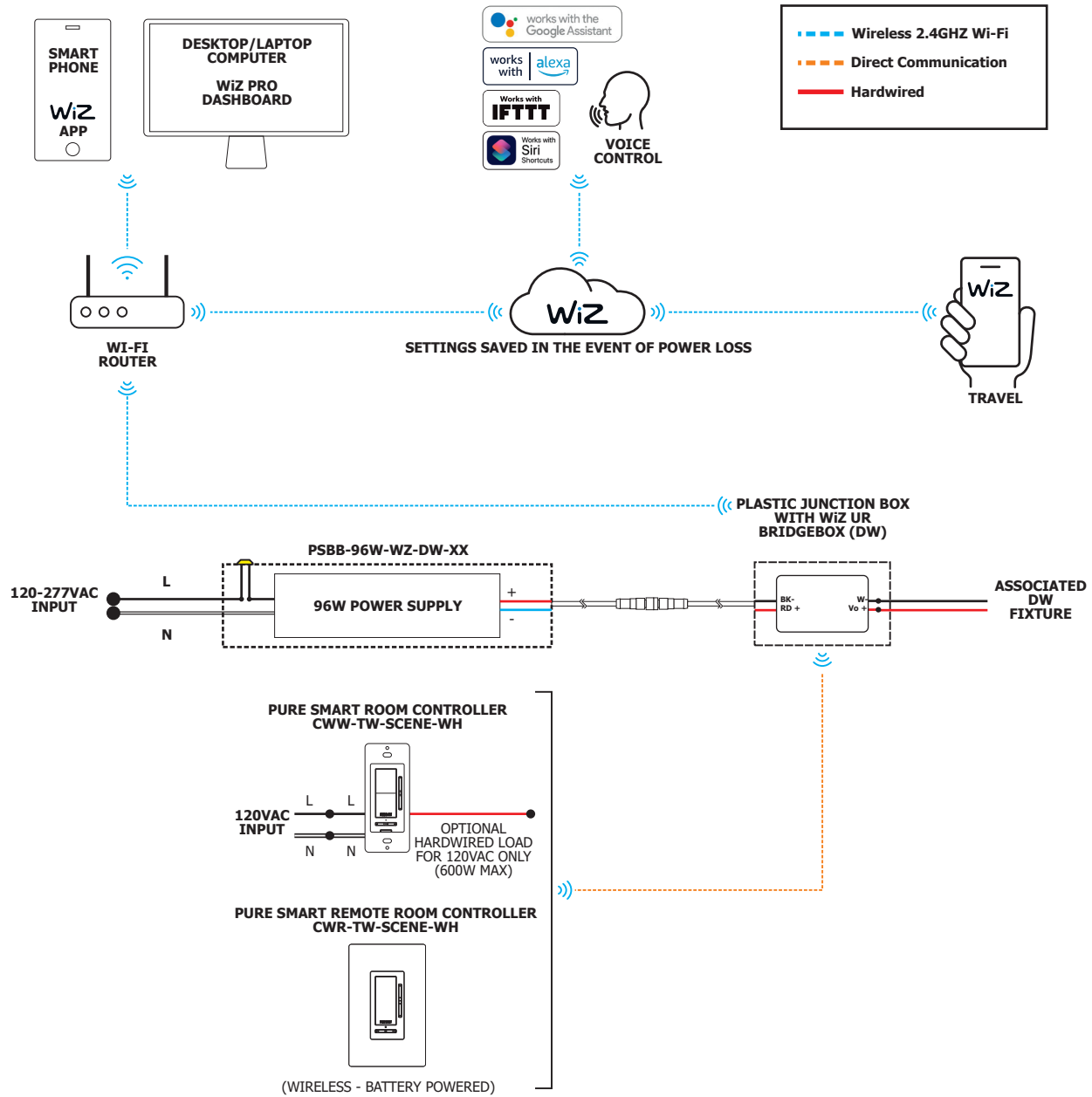
LEDs mounted on the side of the Channel to make L-Turn

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

TRULINE TRUQUAD 1A

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

NETWORK TOPOLOGY

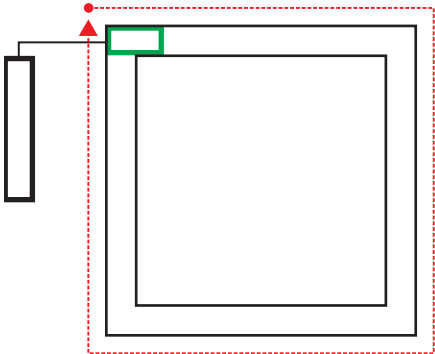


PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

TRULINE TRUQUAD 1A 24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

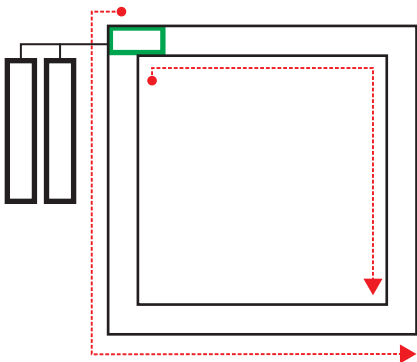
TRUQUAD .5A LAYOUT CONFIGURATIONS

LAYOUT 1



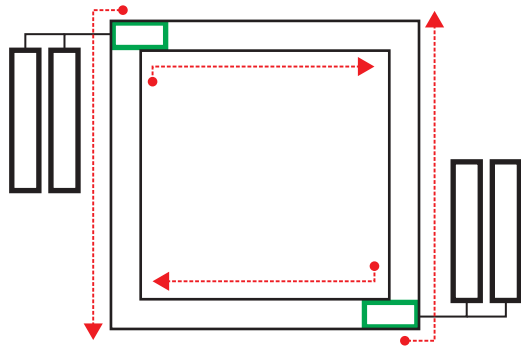
1 Junction Box
1 Remote Power Supply
1 Strip wrap around

LAYOUT 2



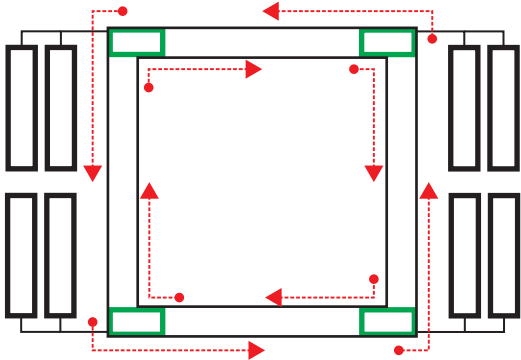
1 Junction Box
2 Remote Power Supplies
2 Strips going opposite directions

LAYOUT 3



2 Junction Boxes
4 Remote Power Supplies
4 Strips going all four directions

LAYOUT 4



4 Junction Boxes
8 Remote Power Supplies
8 Strips going half way all directions

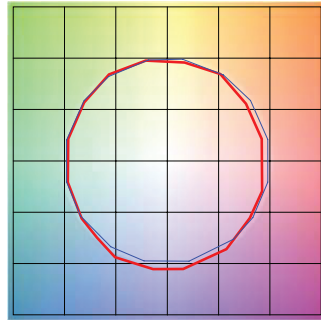
CEILING TM30 DATA

24VDC PLASTER-IN LED SYSTEM, STATIC 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.

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

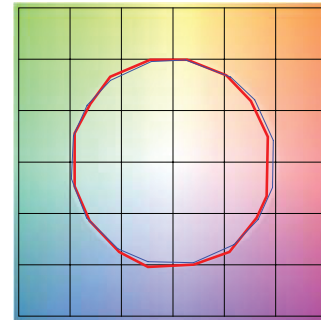


■ Test ■ Reference

		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

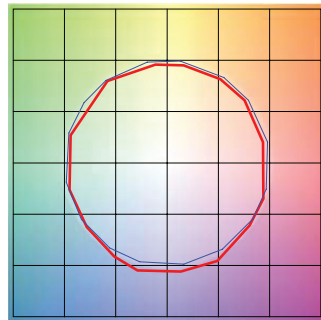


■ Test ■ Reference

		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

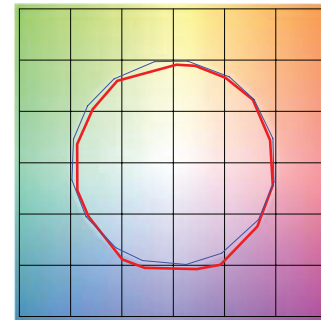


■ Test ■ Reference

		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

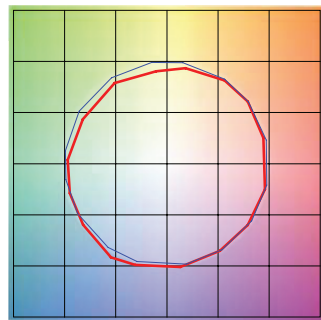


■ Test ■ Reference

		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	
---------	--	--------------	--	------	--