TRULINE TRUQUAD 1A TRUCOLOR™

24VDC, 5 CHANNEL, PLASTER-IN LED SYSTEM, RGB & TUNABLE WHITE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 02.14.24

DESCRIPTION

TruQuad 1A TruColor RGB & Tunable White Complete Fixture, is a versatile 24VDC linear plaster-in LED system that Recesses within 5/8" drywall, without any joist modification producing a clean and modern rectangle of recessed illumination. All corners are factory cut providing customers with a refined finished product that is easy to install and easy to specify. 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 in TruColor **RGBTW** comes with a 4 gang junction box and Pure Smart/WiZ Pro type CV bridgebox which allows for integration into the WiZ Pro wireless control ecosystem as well as 5-channel wireless control of the TruColor Light Engine with the WiZ app and the Smart Room Controller from Pure Smart. Pure Smart TruColor™ technology uses five channels of tunable LEDs, composed of **RGBTW** red, blue, green, and Tunable White **(1500K-6500K)**. With our precision-engineered, proprietary color mixing we produce one of the widest, most accurate spectrums available from 1500k-6500K giving our customers access to the warm glow of the sunset(1500K-2400K golden hour) to the bright white light of the mid-day sun (5700K) and everything in between. Dynamic Color Changing functionality provides millions of possibilities for intricate customization, rich saturated and secondary colors, and unprecedented ease of installation, making **RGBTW** the ideal choice for residential and commercial applications. TruColor™ **RGBTW** adds more than just decorative flexibility. It also helps to support a healthy Circadian Rhythm and emotional well-being. Let TruColor™ transform your space and the people within it.

Click here for all Other Color Temperatures. Requires Remote Power Supply (PSBR- 96W-24VDC sold separately). Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

MAXIMUM LENGTHS BEFORE RE-FEEDING:

- S5W5 – **Pure Smart™ WiZ Pro**: 20 ft
- S5W7 – **Pure Smart™ WiZ Pro**: 12 ft

LUMEN PERFORMANCE

- **TruColor™ RGBTW** Red, Green, and Blue with Tunable White (1500K-6500K)
- 5W5 240LM/FT 5W @3000K
- 5W7 351LM/FT 7W @3000K

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (5W7): 96+
- Average DUV (5W7): ±0.0002
- Average R9: 91, Rg: 102, Rf: 93
- Average life: 50,000 hours

REMOTE POWER SUPPLIES, DIMMERS & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro PSBR Power Supplies

Pure Smart™ PSBR Power Supply for Remote Bridgebox is developed to support Pure Smart TC TruColor RGBTW luminaires connected by WiZ Pro.

- Pure Smart™ Wi-Fi Controller

Features ON/OFF buttons, CCT and brightness control as well as four preset/custom scenes programmable in the WiZ app. Communicates via 2.4GHz Wi-Fi. No Hub needed. Voice control with Goggle Assistant, Alexa, Siri,Shortcuts, and IFTTT

INCLUDED COMPONENTS

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

APPLICATIONS

Designed for indoor use only. Ideal applications for Residential, Commercial, Hospitality environments, and General Human Centric Lighting.

APPROVALS

Class 2 Wiring up to 100 watts, Indoor Damp Location, ETL listed.

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

System		Watts Per Foot		Control System		Length x Width		Color Temperature
TL1A	–	5W5	–	WZ	–	6 x 480	–	TC
TL1A TruLine 1A		**5W5** 5 watts RGB & 5 watts Tunable White 240" Max **5W7** 5 watts RGB & 7 watts Tunable White 144" Max		**WZ** WiZ Pro Connected CV Smart Bridgebox (included)		6"- 480" (1" increments) per side		**TC** TruColor™ RGBTW, Red, Blue, Green Tunable 1500K-6500K

PROJECT		FIXTURE TYPE		DATE	

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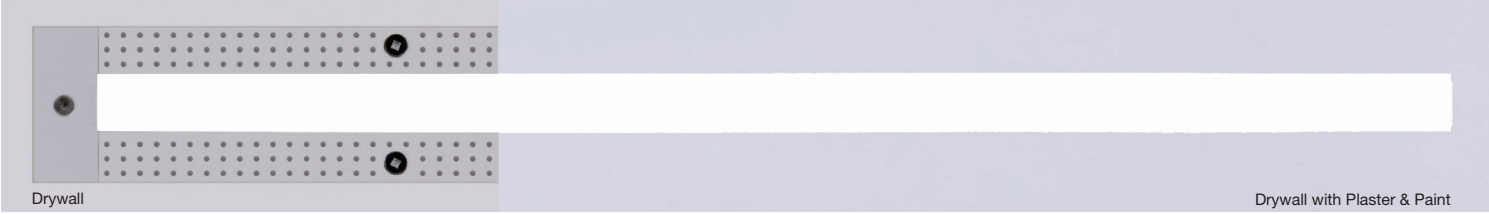
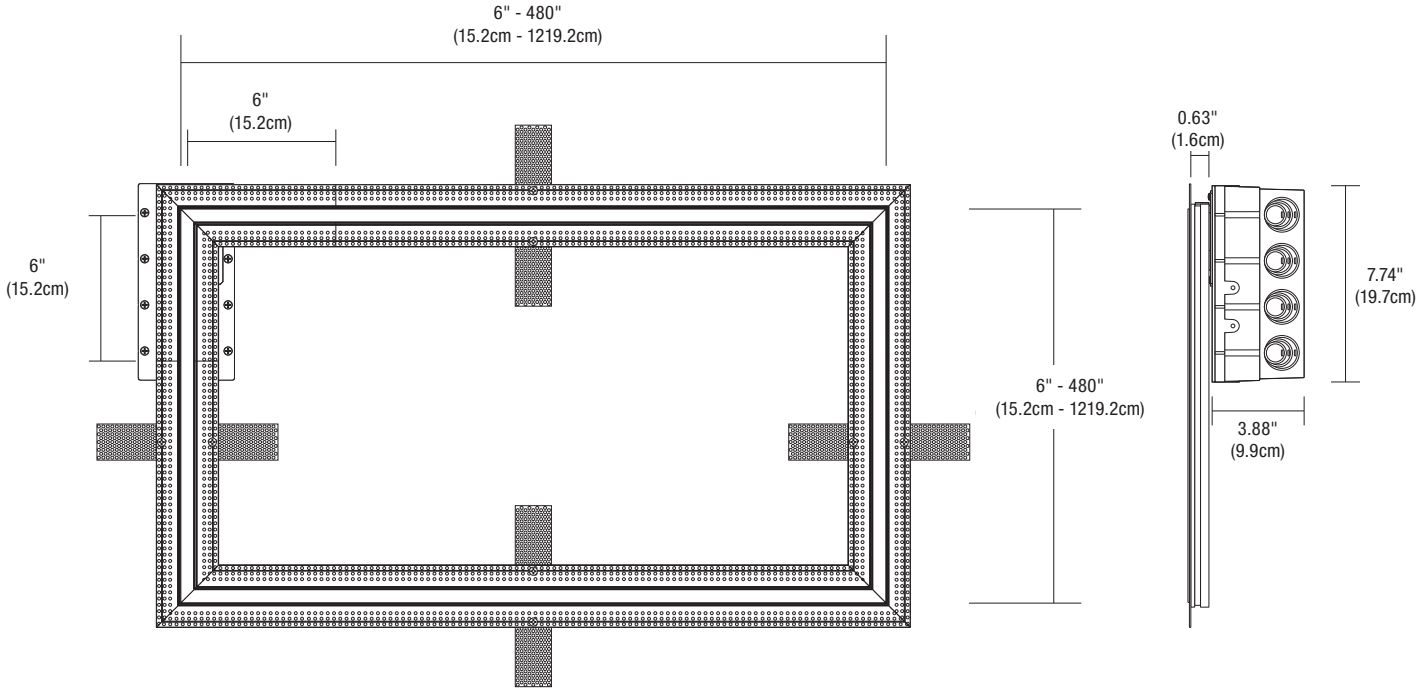
NOMINAL LAMP DATA

TRUQUAD 1A DELIVERED LUMENS PER FOOT																		
DESCRIPTION	**5W5 5W RGB & 5W TUNABLE WHITE**									**5W7 5W RGB & 7W TUNABLE WHITE**								
WATTS PER FOOT	**5W Max**									**7W Max**								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	114	171	207	233	240	254	274	192	177	141	235	301	342	351	369	362	213	193
LUMENS PER WATT (lm/w)	73	38	88	55	57	103	65	116	74	42	61	49	58	57	60	62	62	64
CRI	91.8	93.8	94.5	94.9	95.5	96.9	97.2	92.1	89.8	93	95	96	97	97	98	97	95	93
Duv	-0.004	-0.0012	-0.0034	-0.0058	-0.0055	-0.0033	-0.0014	-0.0049	-0.0063	-0.0030	0.0002	0.0030	0.0030	0.0030	0.0009	0.0000	0.0030	0.0030
Rf	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91
Rg	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103
R9	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67
R13	92	94	95	95	94	96	99	90	87	92	95	96	96	97	99	99	91	88
R15	99	99	99	98	97	97	97	89	85	99	99	99	99	99	98	97	90	85
WATTS/FOOT	2.7	4.55	4.35	4.25	4.25	4.35	4.2	2.95	2.4	3.35	3.85	6.15	5.95	6.15	6.15	5.84	3.45	3





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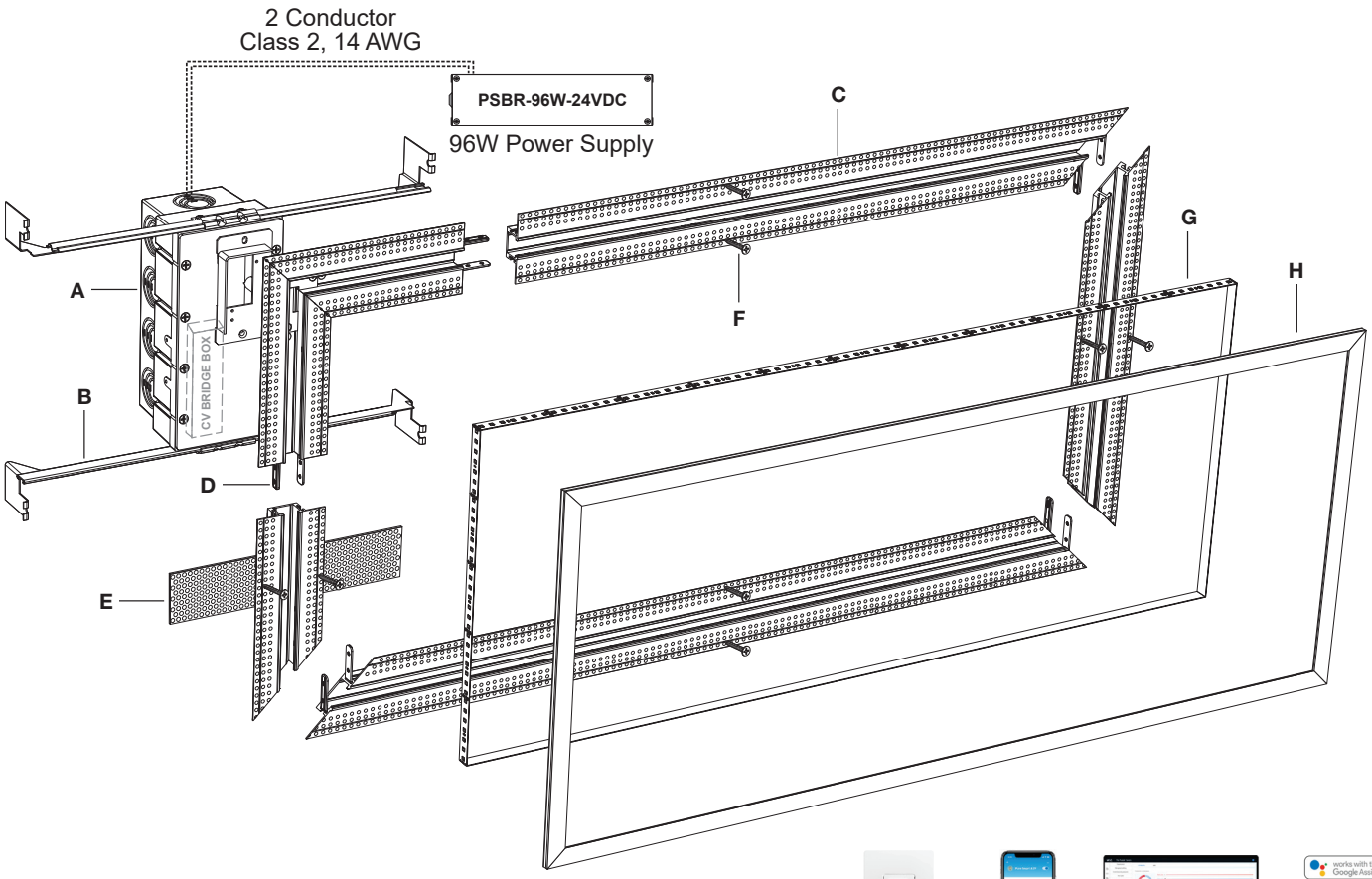
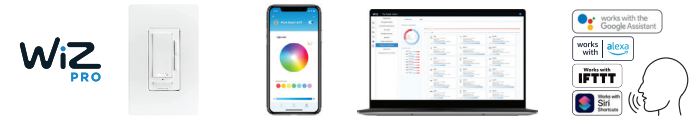
INCLUDED COMPONENTS





A. 4 GANG JUNCTION BOX WITH CV BRIDGE BOX
TL1A-WZ-EP4G-RGBTW (INCLUDED)
Mounts to the framing with the included Adjustable Mounting Bars. 24VDC, Class 2, low voltage wires from PSBR Remote Power Supply connect to input wires on the CV Bridgebox inside the j-box. Low Voltage 24VDC wires from Remote Power Supply connect to input wires from bridgebox wires inside box. Junction Box opening is covered by the included mounting plate and channel. Junction box is necessary for electrical rough-in prior to Truline channel installation. Junction Box and CV Bridgebox are included with each Truline RGBTW complete fixture.

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 .5A 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
0.5" wide diffused lens projects a clean line of light without pixelation.

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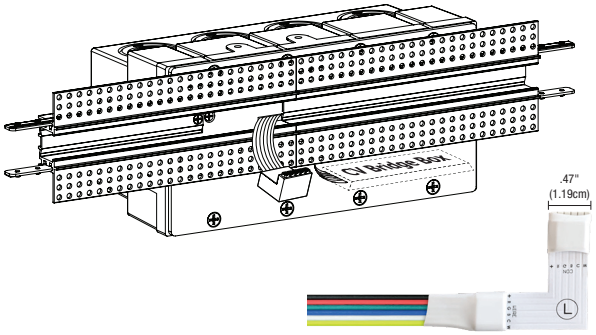


Power Connector (Included)

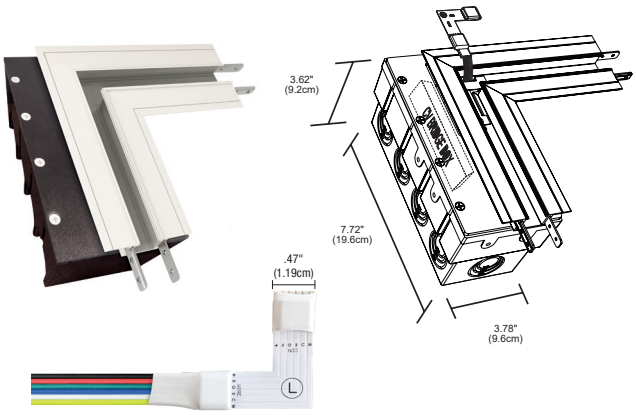
PURE SMART CENTER FEED POWER CONNECTOR WITH WIZ PRO CV BRIDGEBOX & JUNCTION BOX

INCLUDED WITH TRULINE TRUQUAD ORDERING CODE

Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box with adjustable bar hangers, Pin Power Connector for LED strip, and Channel Joiners. LED Strip (not included) to be installed flat on the side of the channel. Two Class 2, 14 AWG stranded conductors from the Remote Power Supply are required per WiZ Pro CV Bridgebox. Ordering Code below is to be used for replacement parts.

ORDERING CODE BELOW IS TO BE USED FOR REPLACEMENT PARTS

System	Component	Control	Ceiling/Wall Type	Color Temperature Options
TL1A	**CFP1**	**WZ**	**JB4G**	**TC5W5**
TL1A TruLine 1" Diffused White Lens	**CFP1** Center Feed Power Connector and CV Bridgebox	**WZ** WiZ Pro Smart System	**JB4G** 4 Gang Junction Box	**TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White



Power Connector (Included)

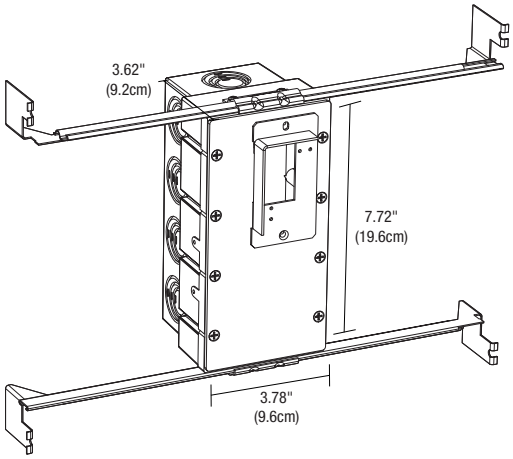
PURE SMART L POWER FEED CHANNEL CONNECTOR WITH WIZ PRO CV BRIDGEBOX AND JUNCTION BOX

INCLUDED WITH TRULINE TRUQUAD ORDERING CODE

Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box, Lens, Channel Joiners, Adjustable Mounting Bars, and Pinned Power Connector. Allows 24VDC power to be fed from corners for 90° turns (with power) in Picture Frame installations either in one directions. LED Strip (not included) installs on the side of the channel to create continuous illumination on a wall or ceiling.

ORDERING CODE BELOW IS TO BE USED FOR REPLACEMENT PARTS

System	Component	Control	Ceiling/Wall Type	Color Temperature Options
TL1A	**LP1**	**WZ**	**JB4G**	**TC5W5**
TL1A TruLine 1" Diffused White Lens	**LP1** L Power Feed and one CV Bridgebox	**WZ** WiZ Pro Smart System	**JB4G** 4 Gang Junction Box	**TC5W5** TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White



4 GANG JUNCTION BOX WITH MOUNTING PLATE

INCLUDED WITH TRULINE TRUQUAD ORDERING CODE

Includes a 4 gang Junction Box with adjustable bar hangers and mounting plate for the Truline 1A Channel. Two Class 2, 14 AWG stranded conductors from remote located power supply are required per WiZ Pro CV Bridgebox used. Junction Box can be quick shipped for rough-in. Ordering Code below is to be used for replacement parts.

System	Type
TL1A	**1LP4G**
TL1A TruLine 1A	**1RC4G** 1" Rectangle Center Feed **1LP4G** 1" Rectangle L Feed*

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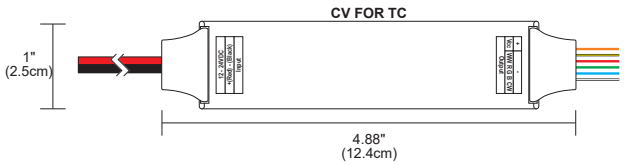

PURE SMART/WIZ PRO CV BRIDGEBOX INCLUDED WITH TRULINE TRUQUAD ORDERING CODE

(Included with TruLine TruQuad ordering code)

WiZ Pro CV Bridgeboxes are included with all Pure Smart WiZ Pro connected power feeds and allow for integration into WiZ Pro wireless control ecosystem. The part numbers below are to be used for replacement only. Pure Smart/WiZ Pro CV Bridgeboxes are pre-programmed with Pure Smart app icons, and proprietary color mixing for tunable white and RGBTW. Ordering Code below is to be used for replacement parts.

Product		Wattage		Color Temperature		System
BRBOX	–	**CV96W**	–	**TC5W5**	–	**RL**
BRBOX Bridgebox		**CV96W** 96 Watts		**TC5W5** TruColor™ 5 watts RGB & 5 watts Tunable White **TC5W7** TruColor™ 5 watts RGB & 7 watts Tunable White		**RL** Recessed Linear

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 Options
SS	-	**FE**	-	**CON**	-	**LBL**	-	**6IN**	-	**RGBTW**
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		**RGBTW** Red, Green, Blue, and Tunable White

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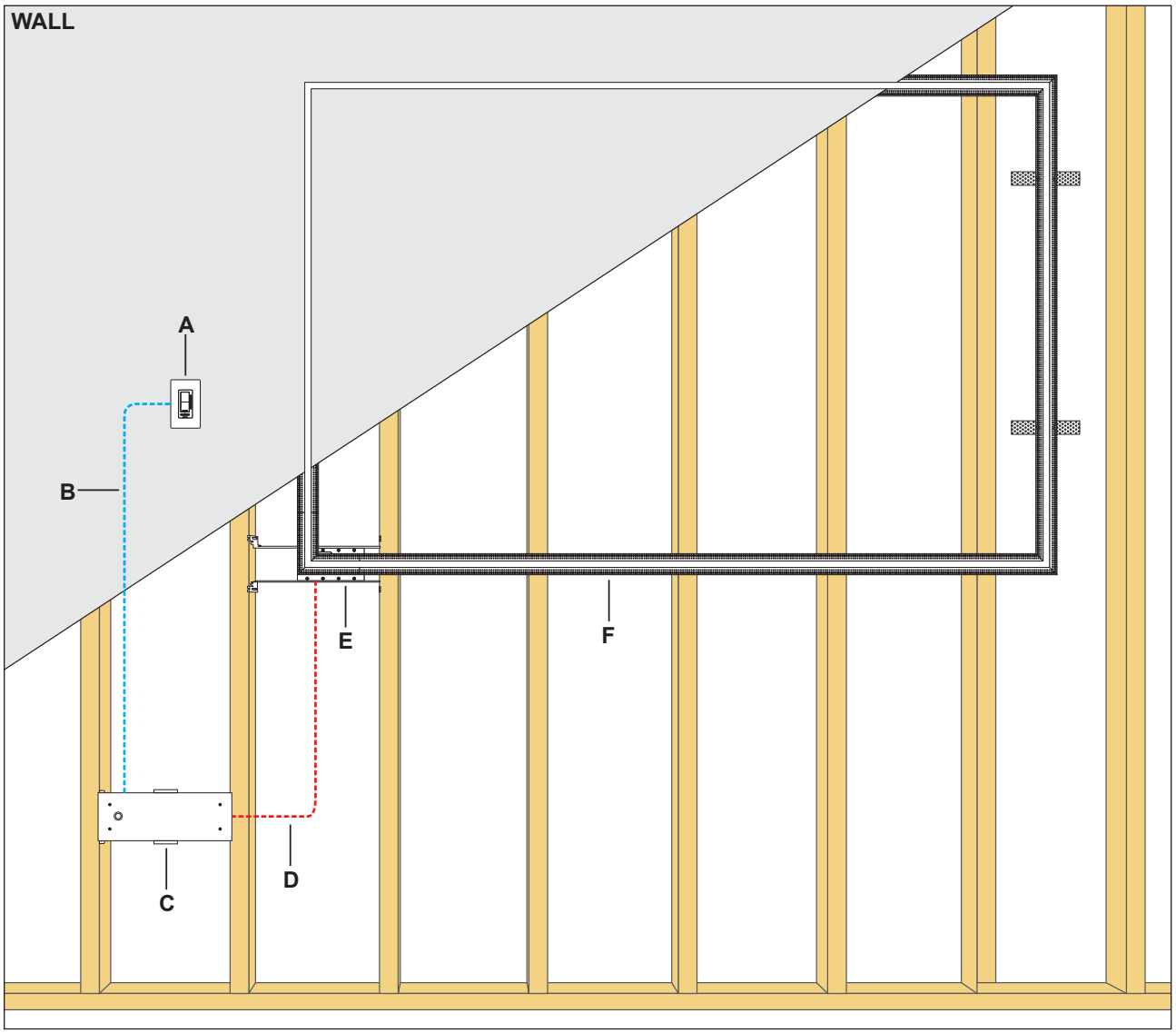
INSTALLATION



A. CWW-TW-SCENE-WH

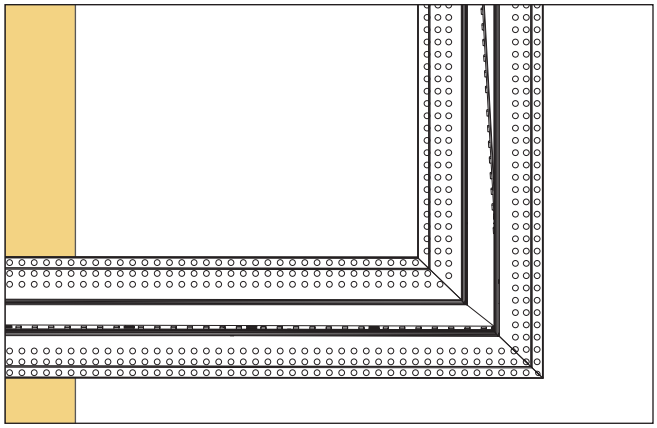
B. 120VAC WIRING, 2 CONDUCTOR (OPTIONAL)

C. PSBR-96W-24VDC

D. 24VDC, CLASS 2 WIRING

E. 4 GANG JUNCTION BOX

F. TRUQUAD CHANNEL, LENS & LED STRIP



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

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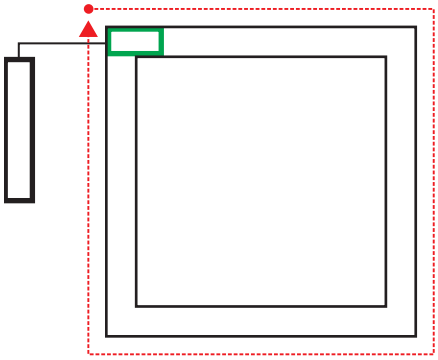
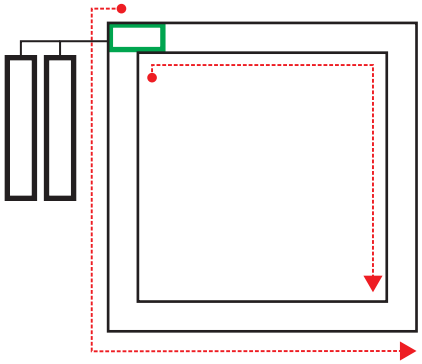
TRUQUAD 1.6A LAYOUT CONFIGURATIONS

LAYOUT 1



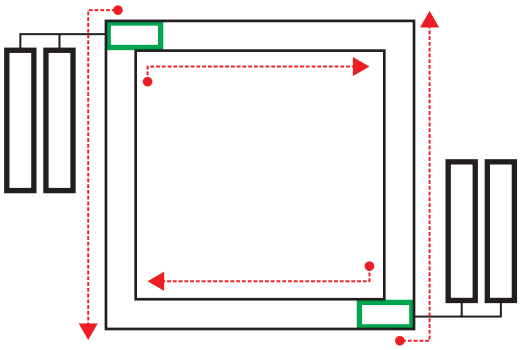
1 Junction Box
1 Remote Power Supply
1 Strip wrap around

LAYOUT 2



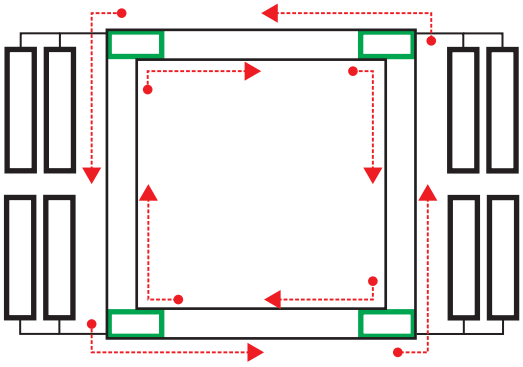
1 Junction Box
2 Remote Power Supplies
2 Strips going opposite directions

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

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LED STRIP TM30 DATA

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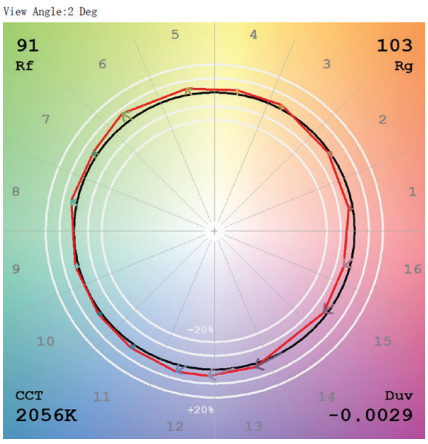
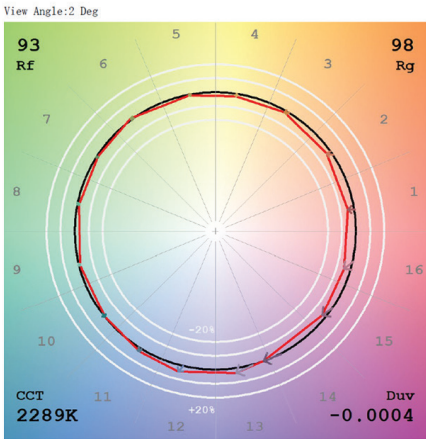
TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

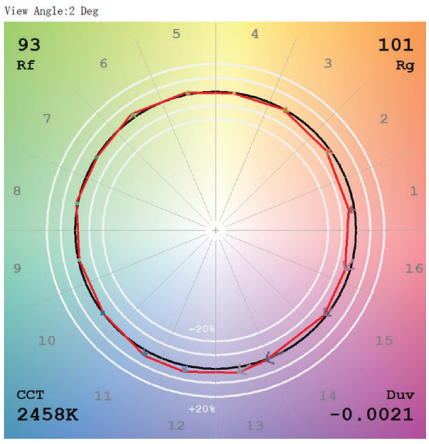
2000K (TruColor™ RGBTW)



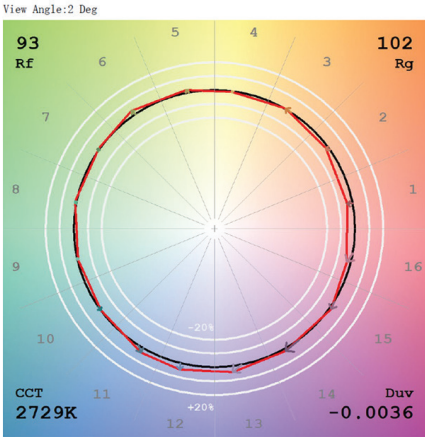
2200K (TruColor™ RGBTW)



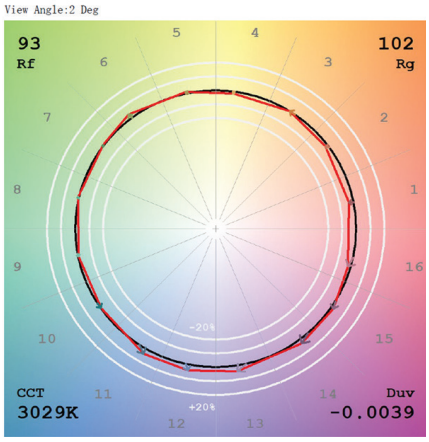
2400K (TruColor™ RGBTW)



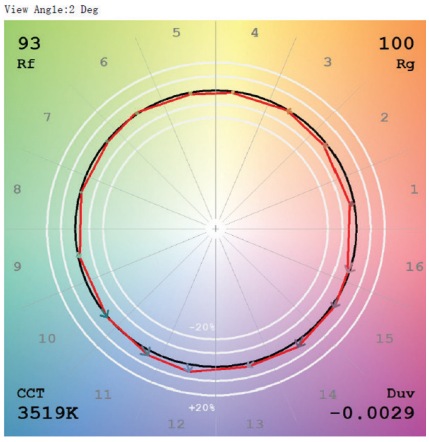
2700K (TruColor™ RGBTW)



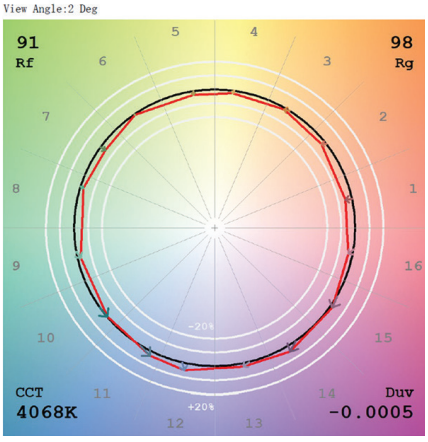
3000K (TruColor™ RGBTW)



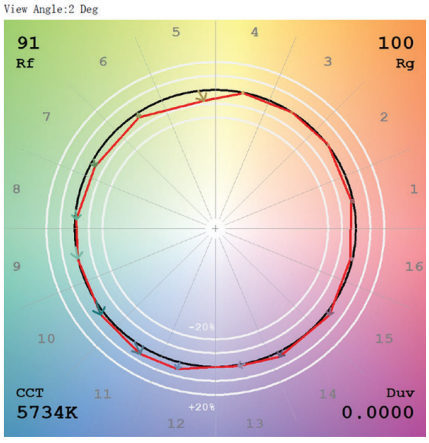
3500K (TruColor™ RGBTW)



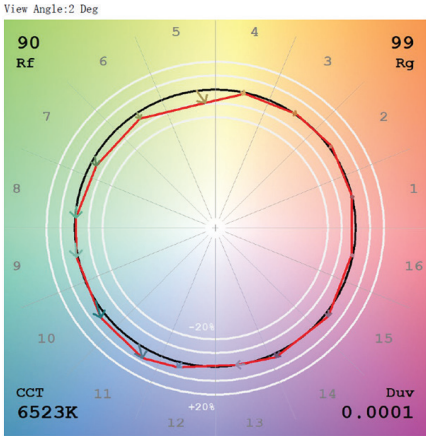
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



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