

TRULINE 1.6A TRUCOLOR™ RGB & TUNABLE WHITE

24VDC, 5/8" DRYWALL PLASTER-IN LED SYSTEM

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REV 04.30.24



Let the Drywall Be Your Canvas

DESCRIPTION

Truline 1.6A with **TruColor™ RGBTW** light engine is another original and innovative design that comes from the family of Plaster-in 24VDC systems pioneered by PureEdge that recesses within 5/8" drywall, without any framing modification required. Redefining the relationship between Lighting and Interior Design, this innovative and highly efficient system blends seamlessly into the drywall, becoming part of the architecture. The Power Feeds included with this fixture contain 2 x 5-Channel WiZ Pro CV Bridgebox allowing for wireless control of the Truline luminaire with the WiZ Pro software suite and Pure Smart Wi-Fi Room Controller. The slim extrusions, LED strips, and lenses are field-cuttable and ordered in 1' increments (up to 20' before re-feeding). Multiple runs of channel mount flawlessly together providing smooth and glare-free general illumination using designer-grade color rendering LEDs (95+ CRI). With the ability to run in vertical, horizontal, and diagonal directions, the compositions are truly endless. TruLine .5A Plaster-in LED System is offered in multiple color temperatures and wattage options. Click here for all [Other Color Temperatures](#). 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.

DESIGN NOTE

TruLine 1.6A can be installed on a single surface, join runs on multiple planes from wall to ceiling, or from one wall to an adjacent wall. Use TruLine 1.6A Do-It-Yourself (**DIY**) with pre-formed components to create desired configurations, including Mitered Picture Frame and Outside or Inside Corners for room wrapping installations. Create square or rectangular compositions with [TruQuad 1.6A](#).

ORDERING & INSTALLATION

Truline 1.6A may be secured to studs spaced 13"-24" apart or between studs with provided mounting straps. Order in 1' increments, field-cuttable to any length. Requires Remote Power Supply PSBR-96W-24VDC(ordered separately).

SPECIFICATIONS

- 24VDC
- 10W10: 2x5W RGB & 2x5W Tunable White, 10 watts/ft maximum
- 10W14: 2x5W RGB & 2x7W Tunable White, 14 watts/ft maximum

MAXIMUM LENGTH BEFORE RE-FEEDING

- 10W10 - Pure Smart WiZ Pro: 20ft
- 10W14 - Pure Smart WiZ Pro: 12ft

APPLICATIONS

Designed for any indoor space with drywall construction. Ideal applications in residential, commercial, retail, and hospitality environments.

TRUCOLOR™ RGB & TUNABLE WHITE LIGHT ENGINE

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, giving our customers access to the warm glow of the sunset (1500K-2400K golden hour) to the pure white light of the mid-day sun (5700K) and everything in between. **TruColor™** LED's achieve an average CRI-Color Rendering Index of 94+ and a Duv of ± 0.0020 in relation to the blackbody curve at any point on the spectrum of tunable white CCT. Dynamic Color Changing functionality provides millions of possibilities for intricate customization, rich saturated 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 well-being. Let **TruColor™** transform your space and the people within it. **TruColor™ RGBTW** is optimized for control with WiZ Pro Wi-Fi based smart control system.

LUMEN PERFORMANCE

- TruColor™ RGBTW** Red, Green, and Blue with Tunable White (1500K-6500K)
- 10W10 578 LM/FT 2x5W @3000K
 - 10W14 963LM/FT 2x7W @3000K

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (5W7): 97+
- 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 Google Assistant, Alexa, Siri, Shortcuts, and IFTTT

COMPLIANCE

ETL, Class 2, RoHS, Damp Location, Made in USA.

For quick & easy reference, plus the most up-to-date pricing, use our [Truline 1.6A Configurator](#)

System	Watts Per Foot	Control System	Length in Feet	Color Temperature
TL1.6A	10W10	WZ	20FT	TC
TL1.6A TruLine 1.6A	10W10 2x5watts RGB & 2x5 watts Tunable White 10W14 2x5watts RGB & 2x7 watts Tunable White	WZ WiZ Pro Connected CV Smart Bridgebox Included	1-20FT 1-12FT	TC TruColor RGBTW, Red, Blue, Green Tunable 1500K-6500K

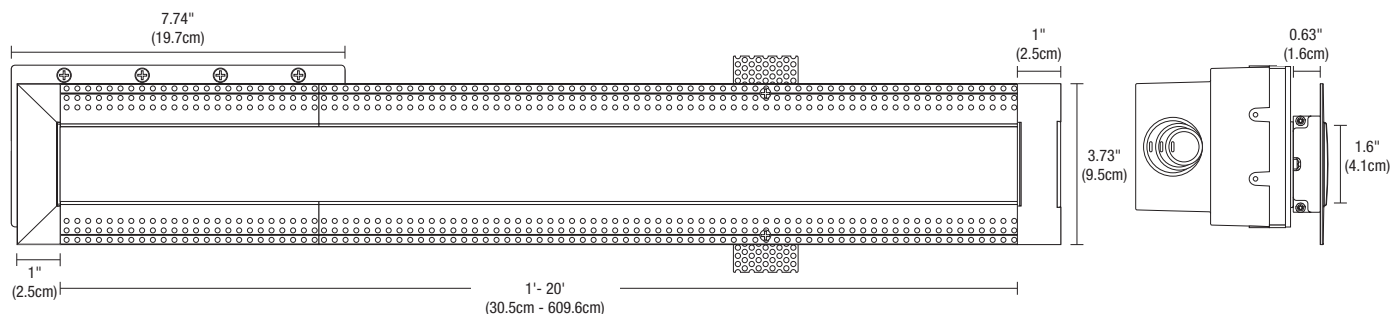
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TRULINE 1.6A TRUCOLOR™ RGB & TUNABLE WHITE

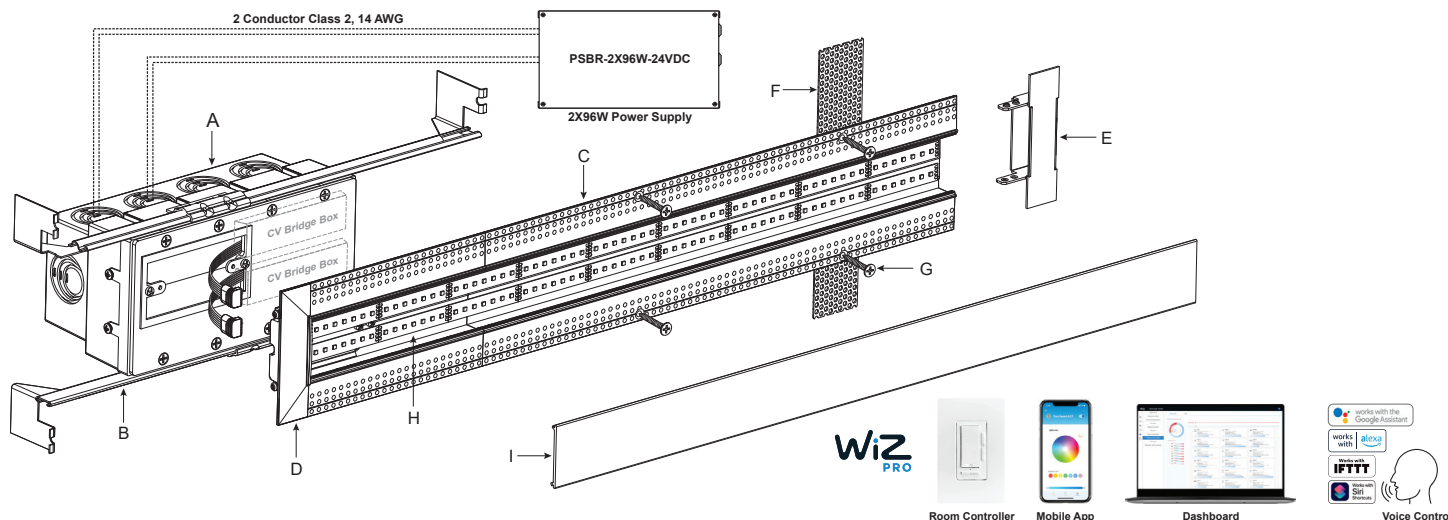
24VDC, 5/8" DRYWALL PLASTER-IN LED SYSTEM

NOMINAL DELIVERED LUMENS

DESCRIPTION	10W10 (2X 5 WATTS RGB & 5 WATTS TUNABLE WHITE)										10W14 (2X 5 WATTS RGB & 7 WATTS TUNABLE WHITE)									
	10W Tunable White										14W Tunable White									
	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K		
WATTS PER FOOT																				
COLOR TEMPERATURE	274	411	499	559	578	610	658	462	426	338	564	724	822	843	888	870	511	463		
LUMENS PER FOOT (lm/ft)	73	90	88	132	136	103	157	116	177	101	147	118	138	137	144	149	148	154		
LUMENS PER WATT (lm/w)	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		
CRI	-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		
Duv	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91		
Rf	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103		
Rg	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67		
R9	92	94	95	95	94	96	99	90	87	92	95	96	96	97	99	99	91	88		
R13	99	99	99	98	97	97	97	89	85	99	99	99	99	99	98	97	90	85		
R15	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		
WATTS/FOOT																				



INCLUDED COMPONENTS



A. JUNCTION BOX

Mounts behind drywall with Adjustable Mounting Bars. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Contains 2 CV Bridgeboxes per power feed which allows for wireless control with the WiZ Pro Software Suite or the Pure Smart Wi-Fi Room Controller. Junction Box opening is covered by the channel, and required at the beginning of each run.

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. TRULINE 1.6A CHANNEL

5/8" deep extrusion house for two rows of LED Strips.

D. POWER END CAP

Provides a finished look and prevents light leak at feed-end of runs where LED Strip enters the channel.

E. TAKE-UP BOX

Prevents dark spots at the end of a run by tucking excess LED Strip safely behind wall.

F. MOUNTING STRAP

Secures channel to drywall when wall stud is unavailable.

G. DRYWALL SCREW

Secures channel to drywall and stud.

H. LED STRIPS

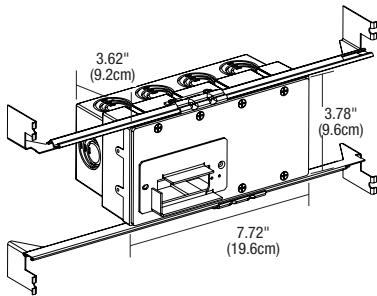
Your selection of LED Strip CCT. Truline 1.6A comes with two LED Strips.

I. LENS

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

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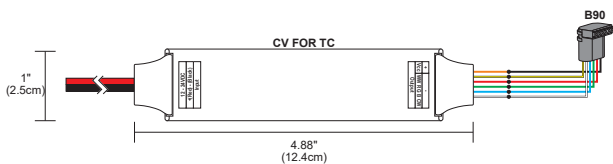
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PURE SMART 4 GANG JUNCTION BOX WITH MOUNTING PLATE (INCLUDED WITH TL1.6A COMPLETE FIXTURE ORDERING CODE)

Includes a 4 gang Junction Box with adjustable bar hangers. This part can be quick shipped if needed for rough in. Two Class 2, 14 AWG stranded conductors from remote located power supply to 4 gang Junction Box.


System	Type
TL1.6A	1RE4G
TL1.6A TruLine 1.6A	1RE4G 1" Rectangle End Feed with 4 Gang Junction Box

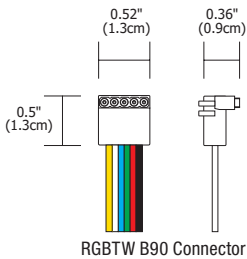


PURE SMART/WIZ PRO CV BRIDGEBOX

Two WiZ Pro CV Bridgeboxes are included with TruLine 1.6A RGBTW ordering codes. 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.

Type	Type	Component	Color Temperature Options	System
BR	B90	CV96W	TC5W5	RL
BR Bridgebox	B90 90° Connector	CV96W Slim Profile WiZ Bridgebox	TC5W5 TruColor™ RGBTW 5 watts RGB & 5 watts Tunable White TC5W7 TruColor™ RGBTW 5 watts RGB & 7 watts Tunable White	RL Recessed Linear





B90 CONNECTORS

B90 Connectors are supplied with End Power Components. The ordering code below is to be used for replacements only.

System	Type	Component	Color Temperature Options
LC	PFE	B90	RGBTW
LC LED Connector	PFE Power Feed	B90 Bends 90°	RGBTW TruColor™ RGBTW (RGB + Tunable White 1500k-6500K)

LENGTH LOAD CHARTS: To determine the necessary wire gauge use our [Voltage Drop Calculator](#).

10 WATTS PER FOOT (2 X 5W)	
LENGTH IN FEET	WATTS
1	10
2	19
3	29
4	38
5	48
6	58
7	67
8	77

14 WATTS PER FOOT (2 X 7W)	
LENGTH IN FEET	WATTS
1	14
2	28
3	42
4	56
5	70
6	84

LED STRIP TM30 DATA

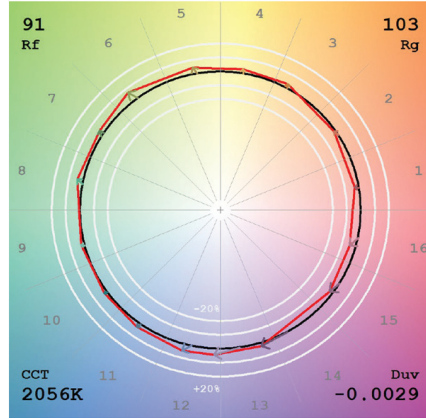
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TM-30-15 DATA: The data below is for TruColor[™] RGBTW (S5W7) bare LED Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color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

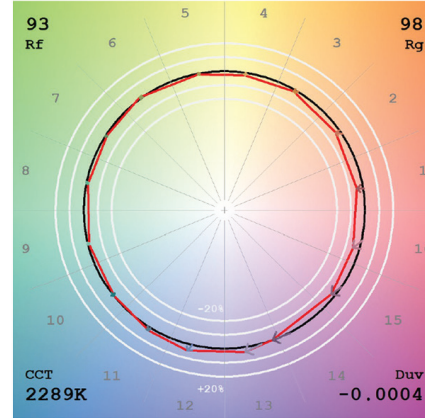
2000K (TruColor[™] RGBTW)

View Angle:2 Deg



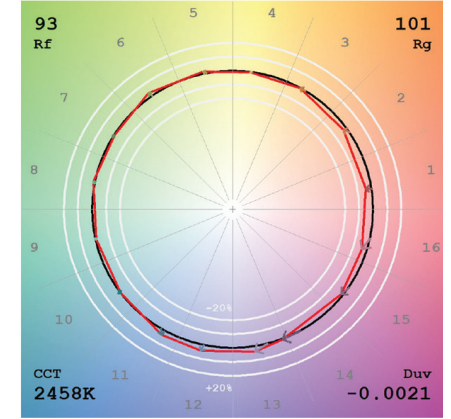
2200K (TruColor[™] RGBTW)

View Angle:2 Deg



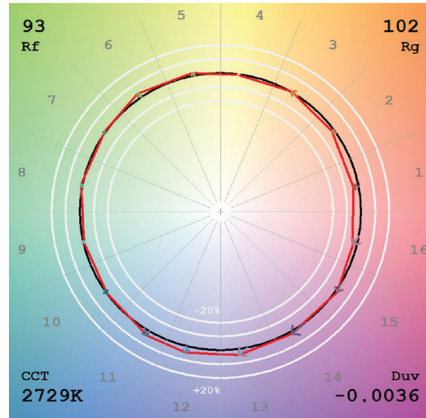
2400K (TruColor[™] RGBTW)

View Angle:2 Deg



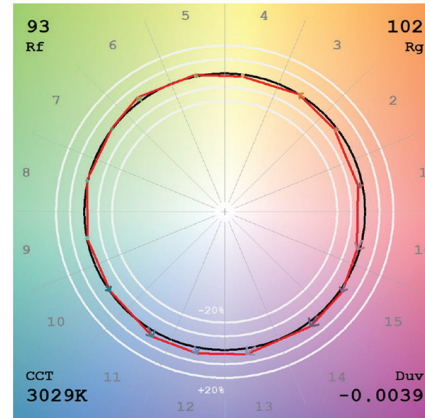
2700K (TruColor[™] RGBTW)

View Angle:2 Deg



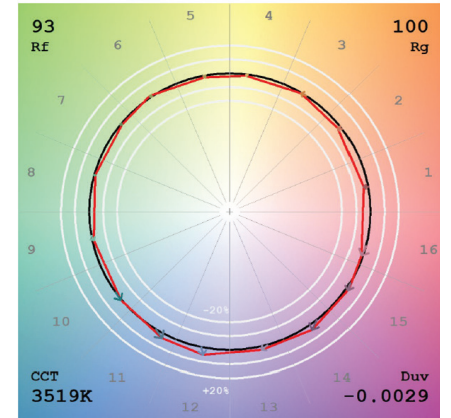
3000K (TruColor[™] RGBTW)

View Angle:2 Deg



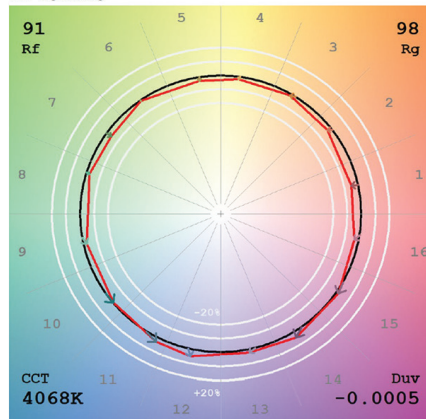
3500K (TruColor[™] RGBTW)

View Angle:2 Deg



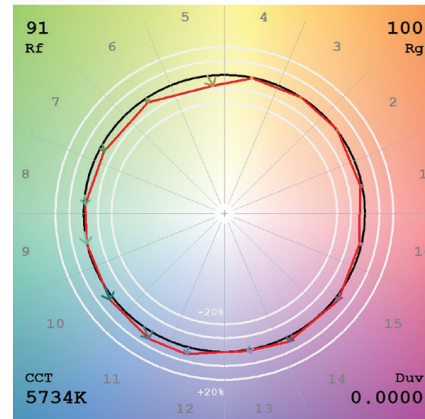
4000K (TruColor[™] RGBTW)

View Angle:2 Deg



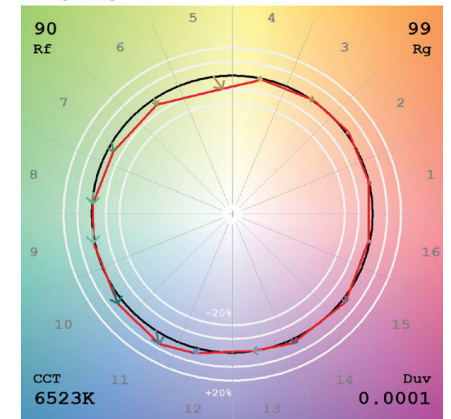
5700K (TruColor[™] RGBTW)

View Angle:2 Deg



6500K (TruColor[™] RGBTW)

View Angle:2 Deg



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