

# TRULINE 1A TRUCOLOR™ RGB & TUNABLE WHITE 24VDC 5/8" DRYWALL PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL





REV 06.16.23

DESIGNED BY GREGORY KAY I ASSEMBLED IN AMERICA



#### Let The Drywall Be Your Canvas

#### DESCRIPTION

Truline 1A 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 a 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 1A 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 designs and quotes, send drawings to design@PureEdgeLighting.com.

#### **DESIGN NOTE**

TruLine 1A 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 1A 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 1A.

#### **ORDERING & INSTALLATION**

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

#### **APPLICATIONS**

Commonly used in residential, commercial, retail, hospitality, and restaurant projects where clean, minimal linear luminaires with wireless full color control is desirable.

#### **SPECIFICATIONS**

- 24VDC
- 5W5: 5W RGB & 5W Tunable White, 5 watts total per foot
- 5W7: 5W RGB & 7W Tunable White, 7 watts total per foot

## MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5W5 Pure Smart™ WiZ Pro: 20ft
- 5W7 Pure Smart™ WiZ Pro: 12ft

## TRUCOLOR™ RGB & TUNABLE WHITE LIGHT ENGINE

Pure Smart **TruColor**<sup>™</sup> 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 +-.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)
- 5W5 240LM/FT 5W @3000K
- 5W7 351LM/FT 7W @3000K

# **AVERAGE PERFORMANCE 2000K-5500K**

- Average CRI (5W7): 94+
- Average DUV (5W7): +-0.004
- 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

#### **COMPLIANCE**

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



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WATTS/FOOT

# TRULINE 1A TRUCOLOR™ RGB & TUNABLE WHITE





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

**DELIVERED LUMENS** DESCRIPTION **5W5 5W RGB & 5W TUNABLE WHITE 5W7 5W RGB & 7W TUNABLE WHITE** WATTS PER FOOT 5W Maximum 7W Maximum COLOR TEMPERATURE 65K 65K 20K 22K 24K 27K 30K 40K 57K 20K 22K 24K 27K 30K 40K 57K LUMENS PER FOOT (Im/ft) 254 274 177 369 362 193 114 207 233 240 192 141 235 301 342 351 213 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 -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 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 97 99 99 97 99 99 98 97 97 89 85 99 99 99 98 90 85

2.95

2.4

3.35

3.85

6.15

5.95

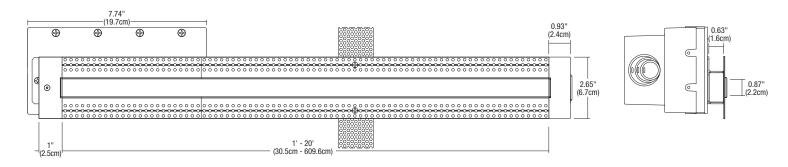
6.15

6.15

5.84

3.45

3



#### **INCLUDED COMPONENTS**

2.7

4.55

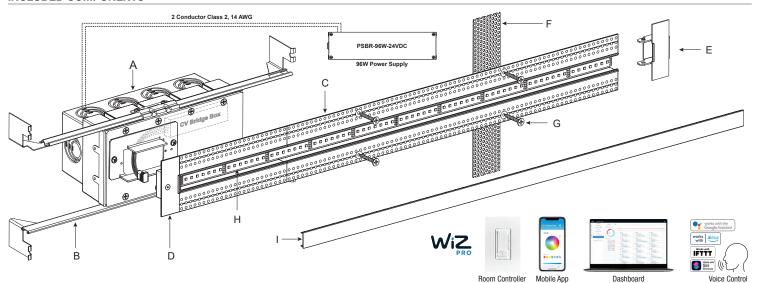
4.35

4.25

4.25

4.35

4.2



#### A. JUNCTION BOX

Mounts behind drywall with Adjustable Mounting Bars. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. 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 stude that are spaced 13"-24" apart.

#### C. TRULINE 1A CHANNEL

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

### D. POWER END CAP

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

#### **E. TAKE-UP BOX**

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

#### F. MOUNTING STRAP

Secures channel to drywall when wall stud is unavailable.

# **G. DRYWALL SCREWS**

Secures channel to drywall and stud.

#### **H. LED STRIP**

Your selection of LED Strip CCT.

#### I. LENS

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

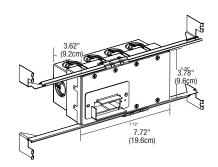
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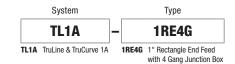


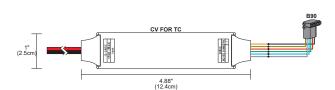
REV 06.16.23



# PURE SMART 4 GANG JUNCTION BOX WITH MOUNTING PLATE (INCLUDED WITH TL1A 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.

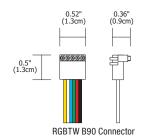




#### **PURE SMART/WIZ PRO CV BRIDGEBOX**

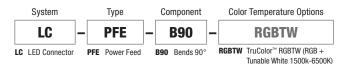
WiZ Pro CV Bridgeboxes are included with TruLine 1A RGBTW ordering codes. The part numbers below are to be used for replacement only. Pure Smart/WiZ Pro CV Bridgeboxes are pre-programmed with Pure Smart applicons, and proprietary color mixing for tunable white and RGBTW.





#### **B90 CONNECTORS**

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



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

5W5 WATTS PER FOOT				
Length In Feet	RGB Wattage	Tunable White Wattage	Pure Smart™ WiZ Pro Wattage	
1	5	5	5	
2	10	10	10	
3	15	15	15	
4	20	20	20	
5	25	25	25	
6	30	30	30	
7	35	35	35	
8	40	40	40	
9	45	45	45	
10	50	50	50	
11	55	55	55	
12	60	60	60	
13	65	65	65	
14	70	70	70	
15	75	75	75	
16	80	80	80	
17	85	85	85	
18	90	90	90	
19	95	95	95	
20	100	100	100	

5W7 WATTS PER FOOT				
Length In Feet	RGB Wattage	Tunable White Wattage	Pure Smart™ WiZ Pro Wattage	
1	5	7	7	
2	10	14	14	
3	15	21	21	
4	20	28	28	
5	25	35	35	
6	30	42	42	
7	35	49	49	
8	40	56	56	
9	45	63	63	
10	50	70	70	
11	55	77	77	
12	60	84	84	

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PROJECT	FIXTURE TYPE	DATE	

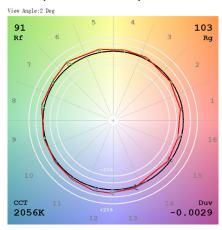




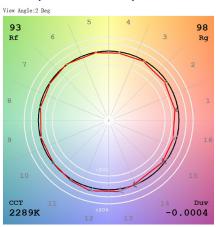
REV 06.16.23

**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.

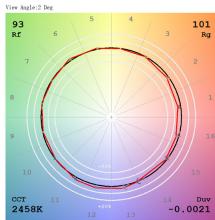
### 2000K (TruColor™ RGBTW)



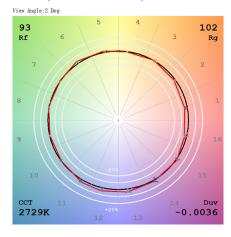
#### 2200K (TruColor™ RGBTW)



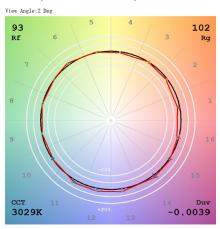
# 2400K (TruColor™RGBTW)



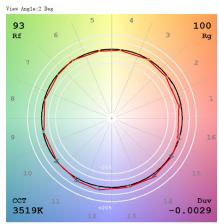
#### 2700K (TruColor™ RGBTW)



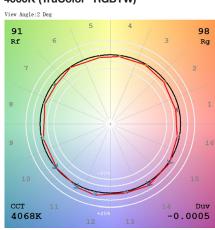
#### 3000K (TruColor™ RGBTW)



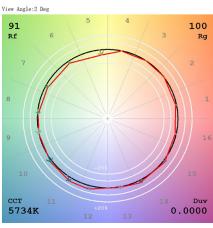
# 3500K (TruColor™ RGBTW)



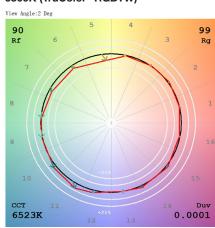
# 4000K (TruColor™ RGBTW)



# 5700K (TruColor™RGBTW)



# 6500K (TruColor™ RGBTW)



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