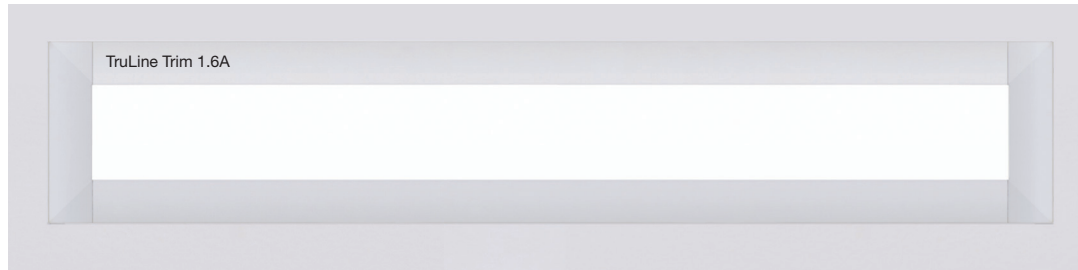


TRULINE TRIM 1.6A TRUCOLOR™ RGBTW 24VDC, 5/8" RECESSED LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 06.08.26



Let the Drywall Be Your Canvas

DESCRIPTION

Truline Trim 1.6A with the **TruColor™ RGBTW** light engine is another original and innovative design that comes from the family of plaster-in 24VDC systems pioneered by PureEdge that recess into any surface at least 5/8" thick without having to modify framing or surrounding construction. Truline Trim has a .5" finished flange that allows it to be recessed into any surface including wood, tile, cement, or drywall. 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 slim extrusions, LED strips, and lenses are field-cuttable and ordered in 1' increments (up to 20' before re-feeding), power feeds included. Multiple runs of channel mount flawlessly together providing smooth and glare-free general illumination using designer-grade color rendering LEDs (97+ CRI). With the ability to run in vertical, horizontal, and diagonal directions, the compositions are truly endless. TruLine Trim recessed 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 Trim 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 Trim 1.6A 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 Trim 1.6A](#).

ORDERING & INSTALLATION

Truline Trim 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 (ordered separately).

SPECIFICATIONS

- 24VDC
- 6W6: 2x3W RGB & 2x3W Tunable White, 6 watts/ft maximum
- 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

- 6W6 - Pure Smart WiZ Pro: 33ft
- 10W10 - Pure Smart WiZ Pro: 20ft
- 10W14 - Pure Smart WiZ Pro: 12ft

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 97+ 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.

LUMEN PERFORMANCE

TruColor™ RGBTW Red, Green, and Blue with Tunable White (1500K-6500K)

- 6W6 313 LM/FT 2x3W @3000K
- 10W10 578 LM/FT 2x5W @3000K
- 10W14 963LM/FT 2x7W @3000K

AVERAGE PERFORMANCE 2000K-5500K

- Average CRI (10W10): 97+
- Average DUV (10W14): +-0.002
- Average R9: 91, Rg: 102, Rf: 93
- Average life: 50,000 hours

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

24VDC, Class 2 wiring

- [Home Integration Solutions](#)
- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)
- [DMX](#) & [Controls](#)

APPLICATIONS

Designed for any indoor space including cement, tile, millwork, and drywall. Ideal applications in residential, commercial, retail, and hospitality environments.

COMPLIANCE

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

System	Watts Per Foot	Control System*	Length in Feet	Color Temperature	Finish
TTL1.6A	10W10	WZ	20FT	TC	WH
TTL1.6A TruLine 1.6A	6W6 2x3watts RGB & 2x3 Tunable White 10W10 2x5watts RGB & 2x5 watts Tunable White 10W14 2x5watts RGB & 2x7 watts Tunable White	WZ WiZ Pro Connected CV Smart Bridgebox Included *Leave code portion blank for hardwired option	1-33FT (6W6) 1-20FT (10W10) 1-12FT (10W10)	TC TruColor RGBTW - Red, Blue, Green & Tunable 1500K-6500K	WH White RAL 9010 BK Black CU Custom

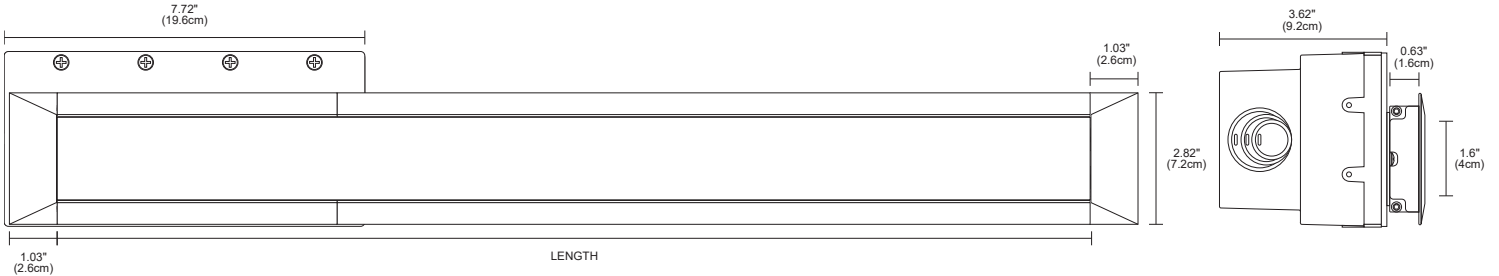
TRULINE TRIM 1.6A TRUCOLOR™ RGBTW

24VDC, 5/8" RECESSED LED SYSTEM

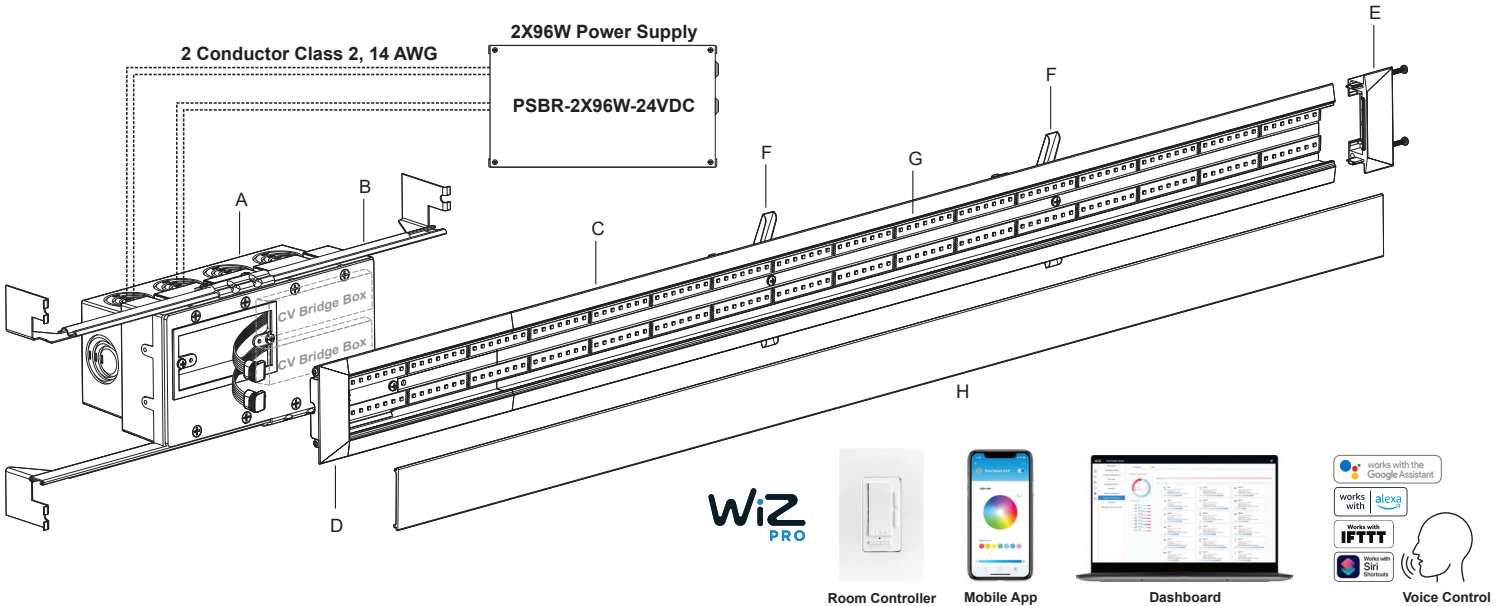
NOMINAL DELIVERED LUMENS

DESCRIPTION	6W6 (2X 3 WATTS RGB & 3 WATTS TUNABLE WHITE)										10W10 (2X 5 WATTS RGB & 5 WATTS TUNABLE WHITE)										10W14 (2X 5 WATTS RGB & 7 WATTS TUNABLE WHITE)									
WATTS PER FOOT	6W										10W										14W									
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K			
LUMENS PER FOOT (lm/ft)	242	273	284	300	313	335	341	274	257	274	411	499	559	578	610	658	462	426	338	564	724	822	843	888	870	511	463			
LUMENS PER WATT (lm/w)	91	109	118	136	145	149	142	137	171	73	90	88	132	136	103	157	116	177	101	147	118	138	137	144	149	148	154			
CRI	93+	94+	95+	93+	96+	96+	94+	92+	94+	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	0.0016	0.0013	0.0021	0.0040	0.0038	0.0010	0.0007	0.0005	0.0000	-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	93	93	93	93	91	91	90	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91			
Rg	93	98	101	102	102	100	99	100	99	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103			
R9	79	64	69	75	78	76	69	95	89	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67			
WATTS/FOOT	2.7	2.5	2.4	2.2	2.2	2.3	2.4	2.0	1.5	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			

WIZ PRO CONTROLLED DIAGRAM



WIZ PRO CONTROLLED INCLUDED COMPONENTS



A. JUNCTION BOX

Mounts behind drywall or other surface 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 TRIM 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. TOGGLE BOLT AND SCREW

Secures channel to drywall and stud.

G. LED STRIPS

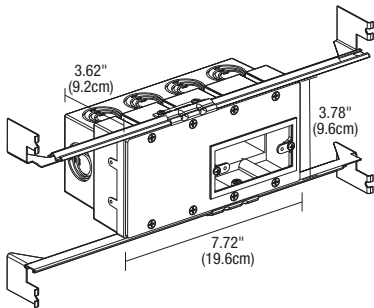
Your selection of LED Strip CCT. TruLine 1.6A comes with two LED Strips.

H. LENS

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

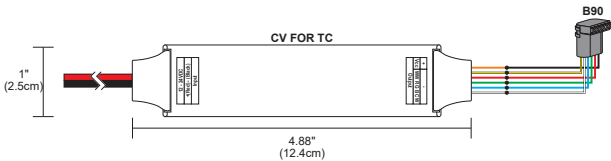
TRULINE TRIM 1.6A TRUCOLOR™ RGBTW 24VDC, 5/8" RECESSED LED SYSTEM

WIZ PRO CONTROLLED COMPONENTS



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



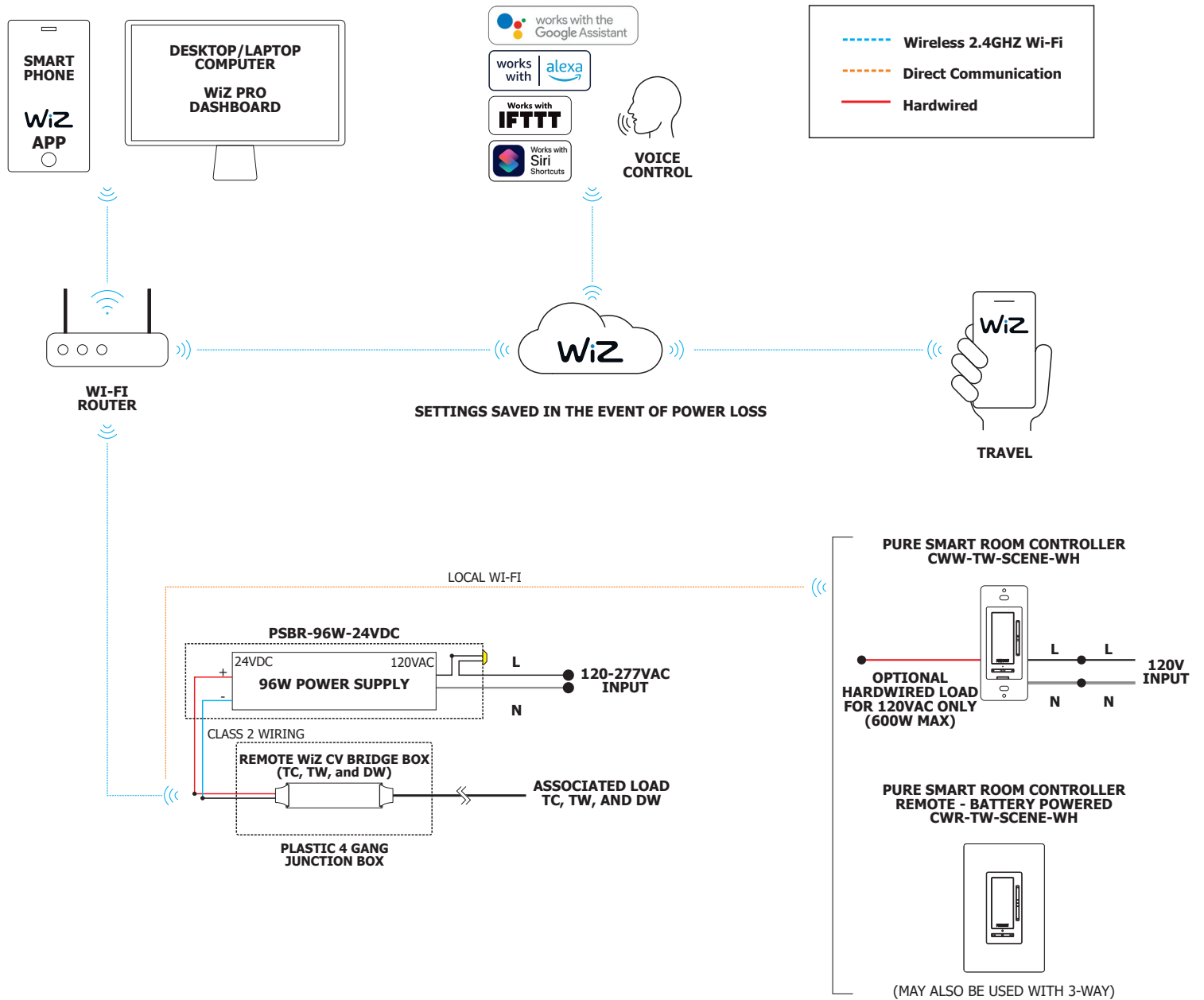
PURE SMART/WIZ PRO CV BRIDGEBOX
Two WiZ Pro CV Bridgeboxes are included with TruLine Trim 1.6A RGBTW ordering codes. The part numbers below are to be used for replacement only. Pure Smart/WiZ Pro CV Bridgeboxes are pre-programmed with Pure Smart app icons, and proprietary color mixing for tunable white 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

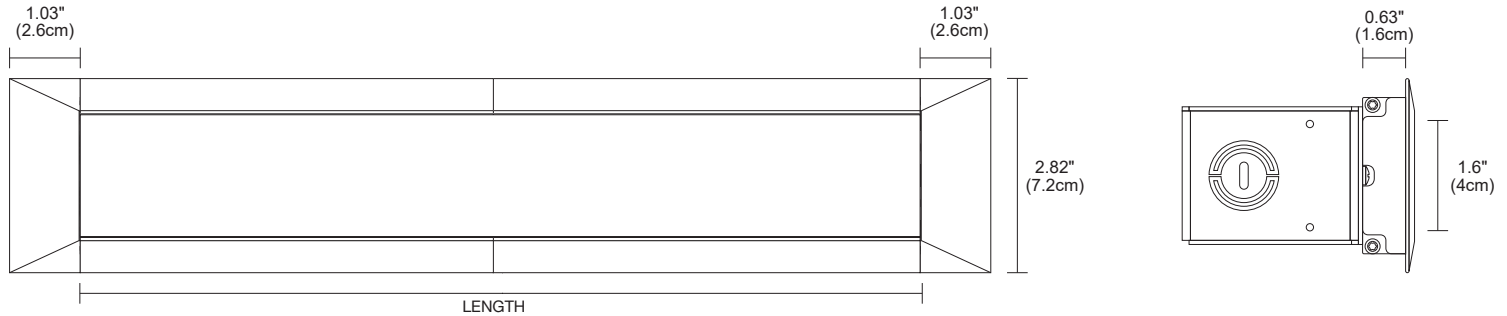


TRULINE TRIM 1.6A TRUCOLOR™ RGBTW 24VDC, 5/8" RECESSED LED SYSTEM

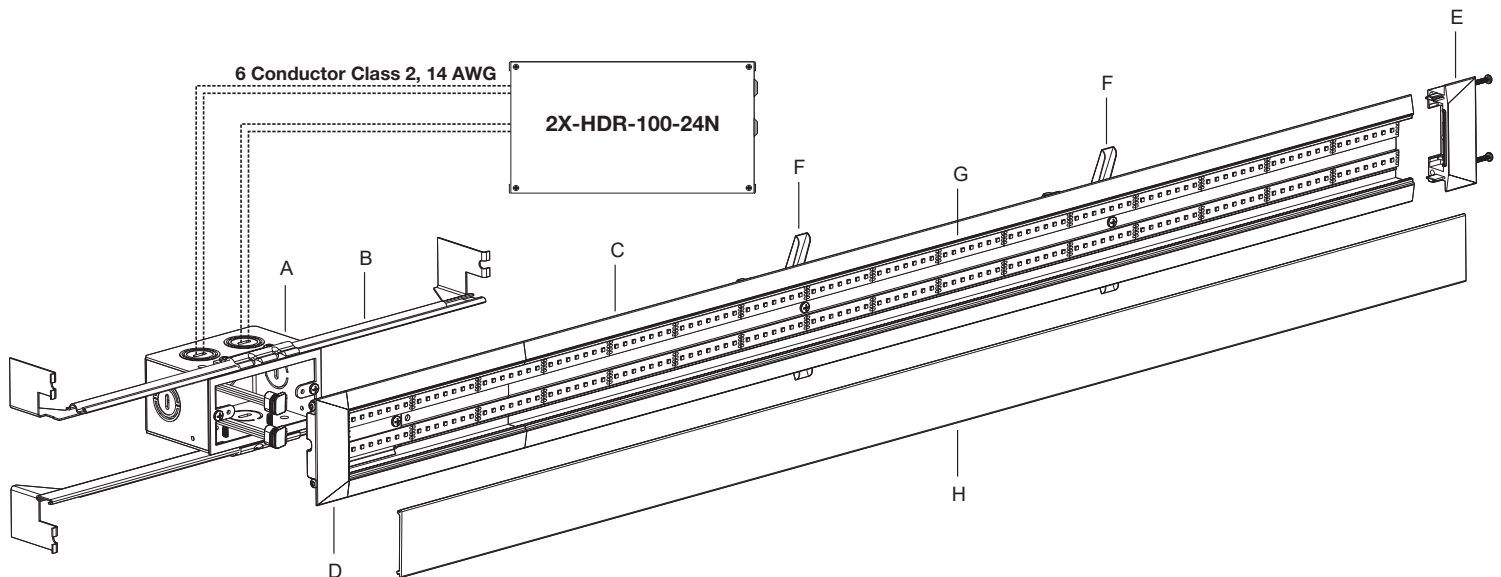
NETWORK TOPOLOGY



TRULINE TRIM 1.6A TRUCOLOR™ RGBTW 24VDC, 5/8" RECESSED LED SYSTEM



HARDWARE CONTROLLED 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. 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 TRIM 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. TOGGLE BOLT AND SCREW

Secures channel to drywall and stud.

G. LED STRIPS

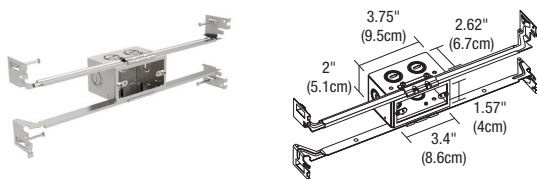
Your selection of LED Strip CCT. TruLine Trim 1.6A comes with two LED Strips.

H. LENS

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

JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with TruLine 1.6A. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

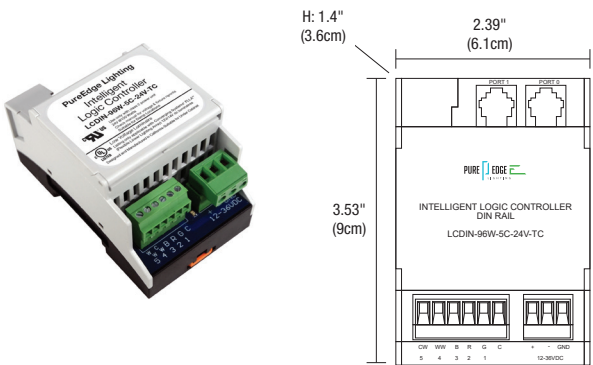


System	Size	Component
TL1.6A	1RE	JBOX
TL1.6A TruLine 1.6A	1RE 1" Rectangle	JBOX Junction Box

TRULINE TRIM 1.6A TRUCOLOR™ RGBTW

24VDC, 5/8" RECESSED LED SYSTEM

HARDWIRED COMPONENTS

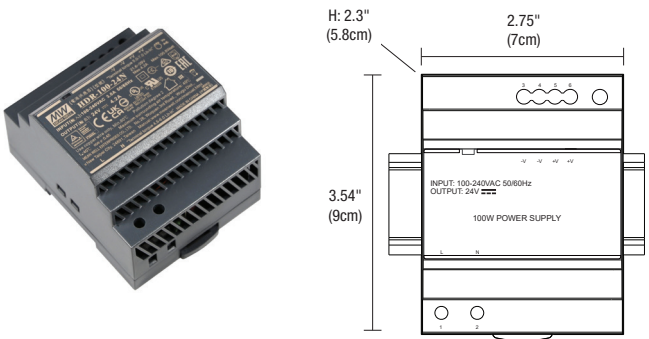


INTELLIGENT LOGIC CONTROLLER DIN RAIL

The Intelligent Logic Controller is a cutting-edge networkable controller designed specifically for 5-channel constant voltage luminaires. It surpasses traditional LED ballasts, LED drivers, and DMX controllers by integrating PureEdge's TruColor™ technology. This combination ensures precise control over all five channels, delivering highly accurate Correlated Color Temperature (CCT) levels and vibrant color output. This makes the Intelligent Bridge Box the ideal choice for managing 5-channel luminaires with precision and flexibility.

This component is intended to be used in conjunction with at least one per application of GDIN-UNITY1.

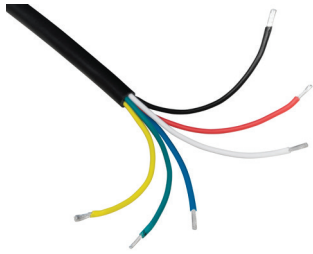
Product	Wattage	Control	Voltage	Color Temperature
LCDIN	96W	5C	24V	TC
LCDIN Logic Controller DIN Rail	96W 96 Watts	5C 5 Channel	24V 24 VDC	TC TruColor™ Red, Blue, Green, Tunable White 1600K-6500K



DIN RAIL POWER SUPPLY

The HDR-100-24N is a compact 100W DIN Rail power supply. It's adapted to be installed on TS-35/7.5 or TS-35/15 mounting rails. Adopting the full voltage range of 85VAC-264VAC (operational 277VAC condition). The HDR-100-24N is designed with an insulated housing protecting from electrical shock hazards.

Product	Wattage	Voltage
HDR	100	24N
HDR Din Rail Power Supply	100 100 Watts, 4 Amp Max	24N 24 Volts DC



WET AND DAMP LOCATION CABLE ORDER PER FOOT

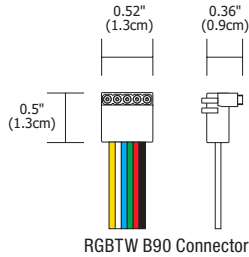
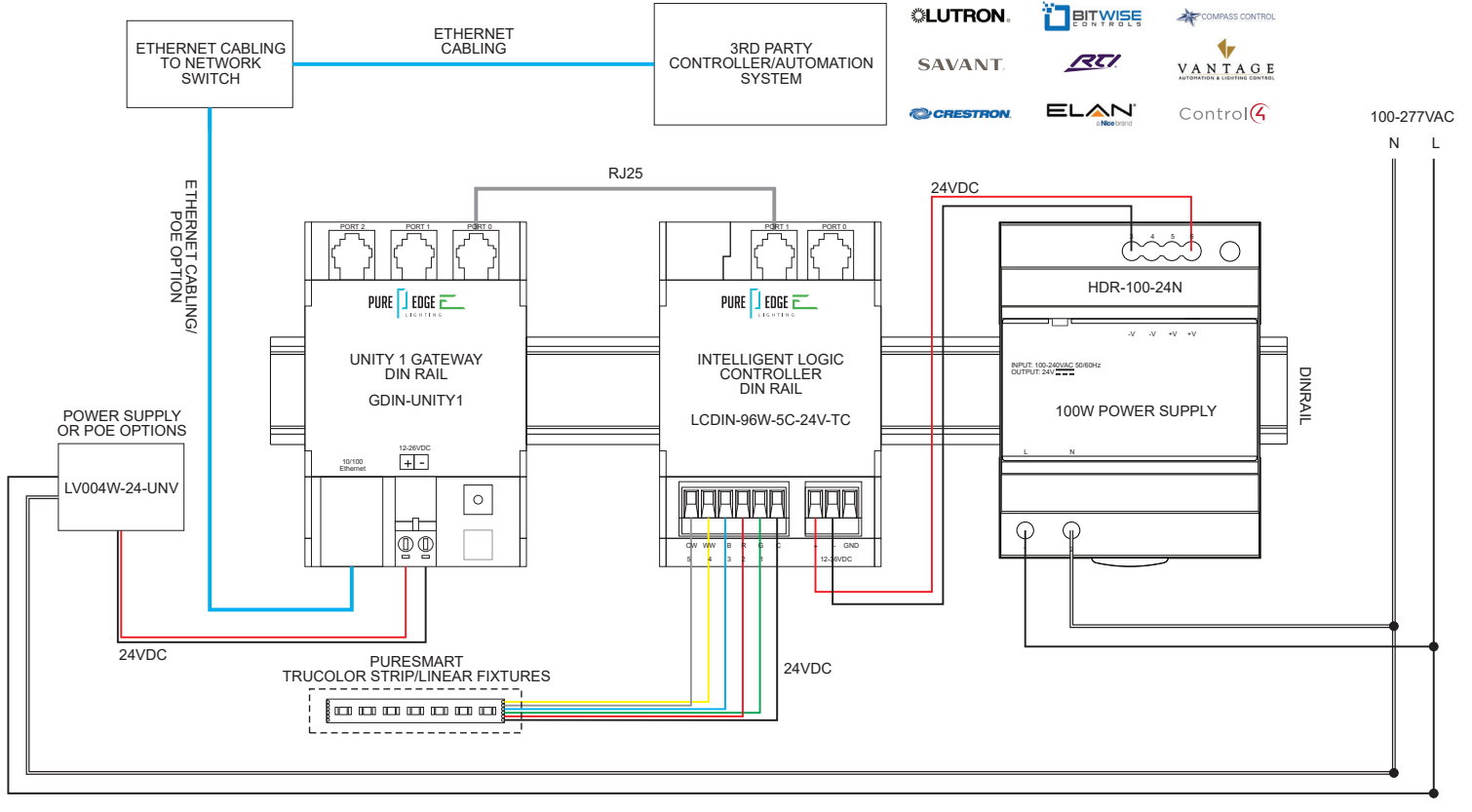
Our Wet Location, 6 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
OC	14G	6C
OC Outdoor Cable	14G 14 Gauge	6C 6 Conductor

TRULINE TRIM 1.6A TRUCOLOR™ RGBTW

24VDC, 5/8" RECESSED LED SYSTEM

WIRING DIAGRAM



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](#).

USING ONE POWER SUPPLY			
10 WATTS PER FOOT (2 X 5W)		14 WATTS PER FOOT (2 X 7W)	
LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	10	1	14
2	20	2	28
3	30	3	42
4	40	4	56
5	50	5	70
6	60	6	84
7	70		
8	80		
9	90		
10	100		

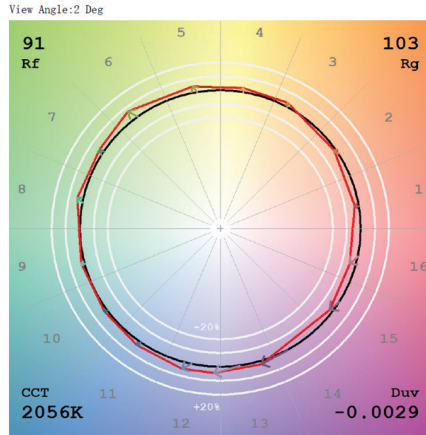
USING TWO POWER SUPPLIES			
10 WATTS PER FOOT (2 X 5W)		14 WATTS PER FOOT (2 X 7W)	
LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	5	1	7
2	10	2	14
3	15	3	21
4	20	4	28
5	25	5	35
6	30	6	42
7	35	7	49
8	40	8	56
9	45	9	63
10	50	10	70
11	55	11	77
12	60	12	84
13	65		
14	70		
15	75		
16	80		
17	85		
18	90		
19	95		
20	100		

LED STRIP TM30 DATA

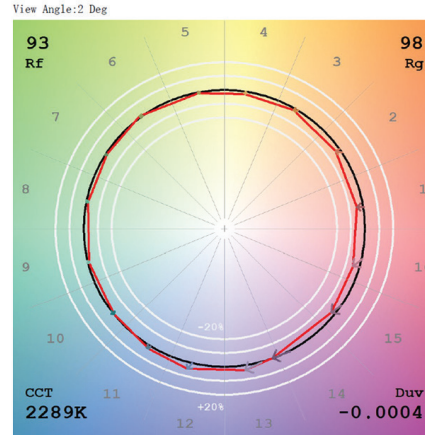
24VDC, 5/8" RECESSED LED SYSTEM

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.

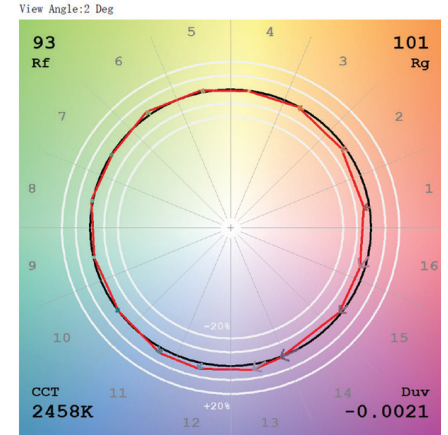
2000K (TruColor™ RGBTW)



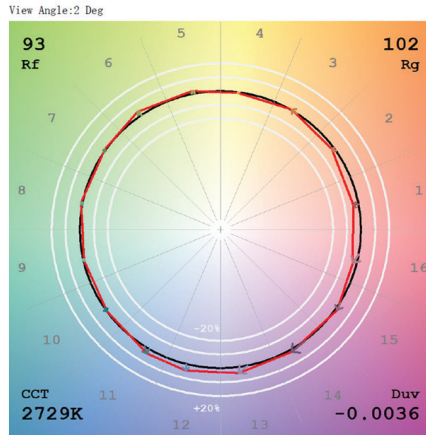
2200K (TruColor™ RGBTW)



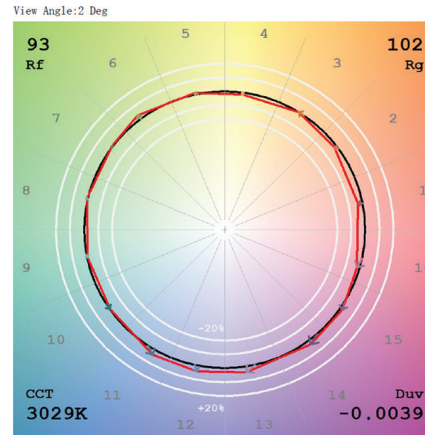
2400K (TruColor™ RGBTW)



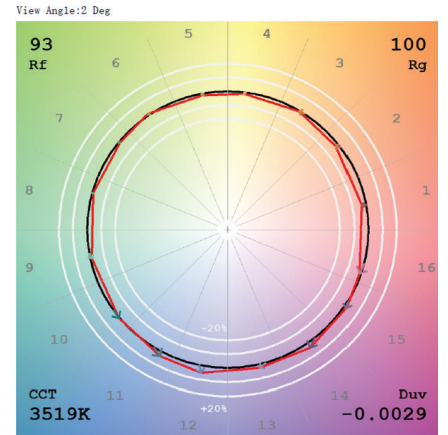
2700K (TruColor™ RGBTW)



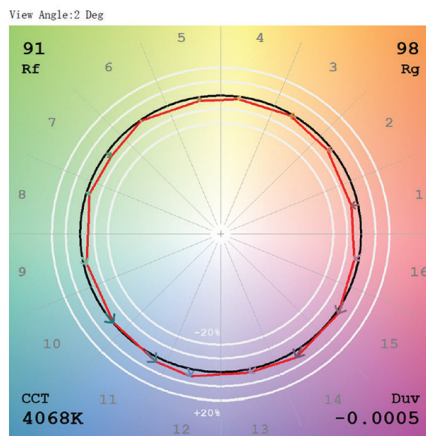
3000K (TruColor™ RGBTW)



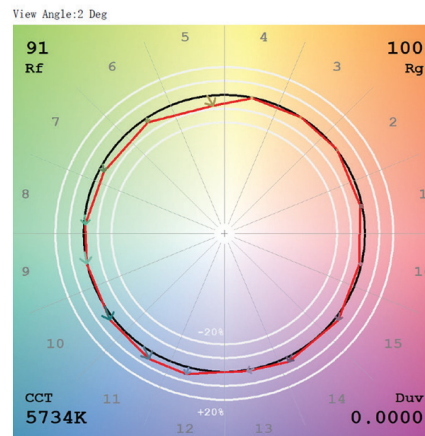
3500K (TruColor™ RGBTW)



4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)

