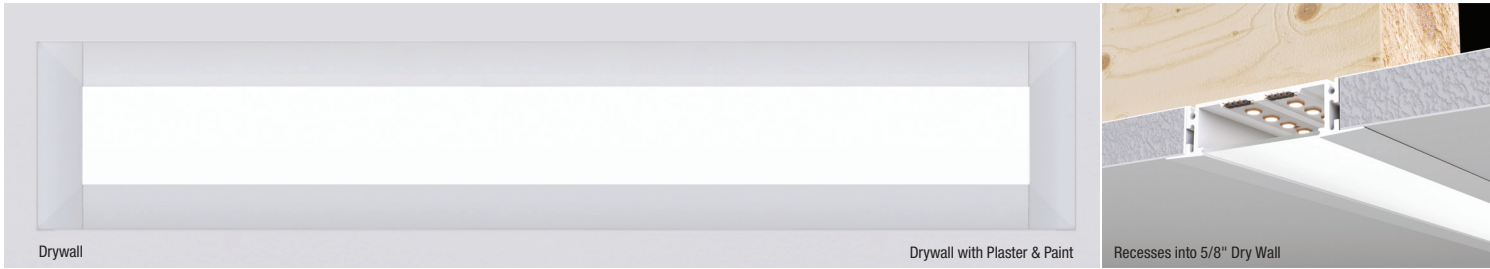# TRULINE TRIM 1.6A TUNABLE WHITE
24VDC LED SYSTEM, 1/2" TRIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE
Pure Smart Lighting

| Drywall | Drywall with Plaster & Paint | Recesses into 5/8" Dry Wall |

Let the Drywall Be Your Canvas

DESCRIPTION

TruLine Trim 1.6A is a recessed 24VDC LED system that features a paintable 1/2" trim. The slim channel extrusions recess within any flat surface, including 5/8" drywall, tile, and millwork, eliminating the need for stud or joist modification. The channel, LED strips, and lenses are field-cuttable and ordered in 1' increments (up to 40' before re-feeding), providing flexibility and unparalleled ease of installation. Truline Trim 1.6A with Tunable White 2000K-6500K (**2K6K**) or 2700K-6500K (**27K6**) grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Day Light White). Tunable white lighting visually, biologically and emotionally contributes to human interaction with the physical world. Human centric lighting (HCL) builds on this technology bringing the dynamics of natural daylight indoors, and delivering a positive effect on human health, wellbeing and performance. Click here for all Other Color Temperatures. 24VDC Remote Power Supplies are required and sold separately. Coordinate installation with electrical and drywall contractors. For custom designs and quotes, send drawings to 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 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.

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.

LAMP

- Tunable White: 2000K-6500K (**2K6K**) and 2700K-6500K (**27K6**) grants independent control for adjusting color temperature and intensity
- Lumen Performance: 997lm/ft at 3000K 7W per foot
- Average Life: 50,000 hours
- For additional color temperatures refer to their respective specifications

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5 watts per foot - 40' (2 x 2.5WDC)
- 10 watts per foot - 20' (2 x 5WDC)
- 14 watts per foot - 12' (2 x 7.5WDC)

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

24VDC, Class 2 wiring
- Pure Smart™ WiZ Pro Power Supplies & Controls
- 0-10V: Requires two dimmers, one for intensity and one for color temperature
- DMX Dynamic Color Changing
- Controllers

*In-Wall Mounting and drop ceiling Kits available for select power supplies

APPLICATIONS

Designed for any indoor space with drywall. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

COMPLIANCE

ETL, Class 2, Indoor Damp Location, Assembled in the USA

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

System	Watts Per Foot	Length in Feet	Color Temperature	Finish
TTL1.6A	**5WDC**	**40FT**	**ST27K**	**WH**

System		Watts Per Foot		Length in Feet	Color Temperature		Finish	
TTL1.6A	TruLine Trim 1.6A	5WDC	2x2.5 Watts (40 ft Max)	1-40FT	ST2K6K	Tunable White 2000K–6500K	BK	Black
		10WDC	2x5 Watts (20 ft Max)	1-20FT	ST27K6	Tunable White 2700K–6500K	WH	White
		14WDC	2x7.5 Watts (12 ft Max)	1-12FT				

PROJECT		FIXTURE TYPE		DATE	

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1

TRULINE TRIM 1.6A TUNABLE WHITE
24VDC LED SYSTEM, 1/2" TRIM

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REV 07.01.24

1.03" (2.6cm)   1.03" (2.6cm)   0.63" (1.6cm)

2.82" (7.2cm)   1.6" (4cm)

LENGTH

INCLUDED COMPONENTS

2 Conductor Class 2, 14 AWG
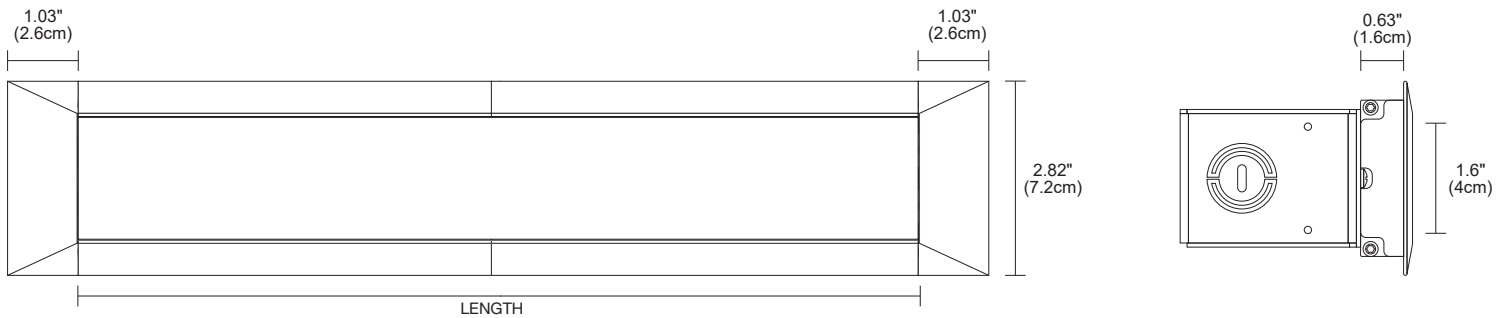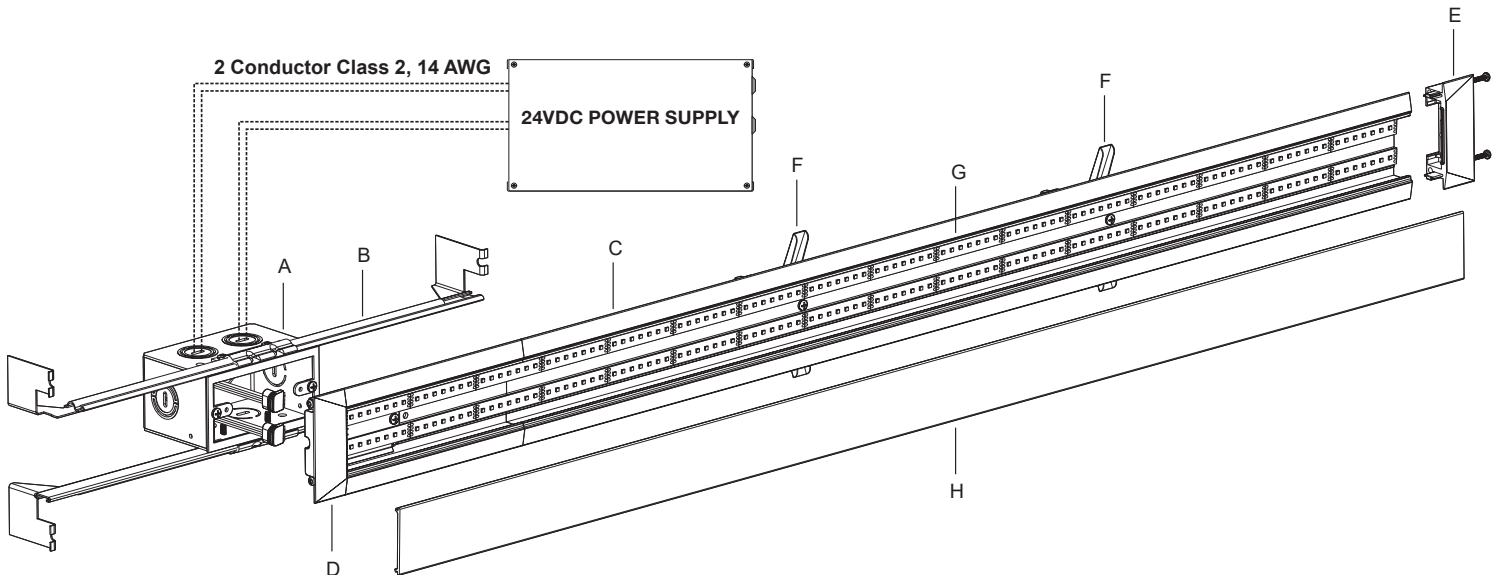
24VDC POWER SUPPLY

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.

3.75" (9.5cm)   2.62" (6.7cm)

2" (5.1cm)   1.57" (4cm)   3.4" (8.6cm)
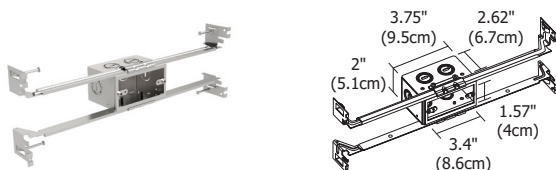
JUNCTION BOX ROUGH-IN COMPONENT
One Junction Box is included with TruLine 1.6A. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

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

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2

TRULINE TRIM 1.6A TUNABLE WHITE
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REV 07.01.24

NOMINAL DELIVERED LUMENS

	2K6K (2000K-6500K)									27K6 (2700K-6500K)						
WATTS PER FOOT	5W (2x2.5 Watts)									5W (2x2.5 Watts)						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	249	235	221	207	193	165	180	194	208	264	313	322	330	361	389	370
LUMENS PER WATT (lm/w)	135	118	111	103	96	82	90	97	115	71	78	80	83	90	97	100
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+

	TUNABLE WHITE 2K6K (2000K-6500K)									TUNABLE WHITE 27K6 (2700K-6500K)						
WATTS PER FOOT	10W (2x4.6 Watts)									10W (2x4.6 Watts)						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	736	766	796	826	856	916	982	991	1000	659	674	699	724	716	710	708
LUMENS PER WATT (lm/w)	160	160	166	172	178	191	205	206	217	82	73	76	79	78	77	89
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+

	TUNABLE WHITE 2K6K (2000K-6500K)									TUNABLE WHITE 27K6 (2700K-6500K)						
WATTS PER FOOT	14W (2x7.3 Watts)									14W (2x7.3 Watts)						
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	1024	1072	1120	1168	1216	1312	1382	1396	1410	889	910	944	978	967	959	956
LUMENS PER WATT (lm/w)	160	149	156	162	169	182	192	194	220	69	63	66	68	67	67	75
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	92+	92+	92+	95+	93+	93+	93+

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

5 WATTS PER FOOT (2 X 2.5W)

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	5	21	102
2	10	22	106
3	14	23	110
4	19	24	116
5	24	25	120
6	29	26	124
7	34	27	130
8	38	28	134
9	43	29	140
10	48	30	144
11	53	31	148
12	58	32	154
13	63	33	158
14	67	34	164
15	72	35	168
16	77	36	172
17	82	37	178
18	87	38	182
19	91	39	188
20	96	40	192

10 WATTS PER FOOT (2 X 4.6W)

LENGTH IN FEET	WATTS
1	10
2	19
3	29
4	38
5	48
6	58
7	67
8	77
9	86
10	96
11	106
12	116
13	124
14	134
15	144
16	154
17	164
18	174
19	182
20	192

14 WATTS PER FOOT (2 X 7.3)

LENGTH IN FEET	WATTS
1	14
2	28
3	42
4	56
5	70
6	84
7	98
8	112
9	126
10	140
11	154
12	168

PROJECT		FIXTURE TYPE		DATE	

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LED STRIP TM30 DATA
24VDC, 5/8" DRYWALL PLASTER-IN LED SYSTEM

TM-30-15 DATA: The data below is for Tunable White bare LED Strip. 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 ONLY (2K6K/27K6) | Rf: 90.6 | Rg: 98.5
Color Vector Graphic
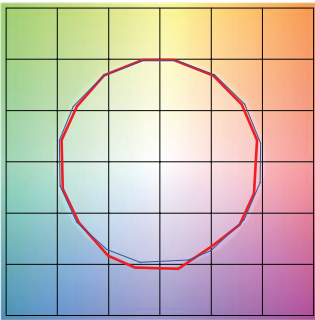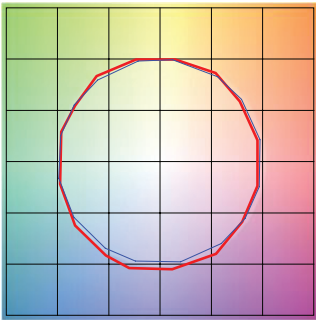

Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	87.7	-5.5%	1.2%
2	88.7	-3.9%	4.2%
3	90.5	-1.5%	4.3%
4	95.0	-1.7%	0.8%
5	95.2	-0.2%	2.1%
6	94.2	1.6%	1.9%
7	95.9	-0.8%	-2.2%
8	95.5	-1.7%	1.3%
9	93.8	-1.4	2.6%
10	91.9	-0.7%	4.2%
11	91.3	3.6%	3.7%
12	91.2	4.2%	-1.0%
13	86.6	3.8%	-12.7%
14	67.2	-3.0%	-16.3%
15	84.9	-3.3%	-9.4%
16	84.2	-5.7%	-7.5%

3000K (2K6K/27K6) | Rf: 90.5 | Rg: 100.7
Color Vector Graphic

Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	91.5	-3.5%	1.2%
2	92.4	-1.8%	2.7%
3	89.8	0.3%	4.5%
4	92.4	-1.7%	0.4%
5	93.3	-0.1%	1.4%
6	94.5	2.1%	-0.6%
7	91.0	-2.5%	0.3%
8	96.9	-0.8%	-0.2%
9	91.6	-0.9%	4.6%
10	86.7	0.7%	7.8%
11	86.3	3.8%	8.5%
12	88.3	6.1%	0.6%
13	90.9	3.1%	-5.2%
14	87.3	4.7%	-7.9%
15	92.1	-1.9%	-2.5%
16	84.5	-0.9%	-10.9%

4000K ONLY (2K6K/27K6) | Rf: 86.4 | Rg: 96.1
Color Vector Graphic

Test   Reference

| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	86.5	-5.5%	1.3%
2	90.4	-3.0%	2.3%
3	89.8	-2.1%	3.6%
4	89.1	-3.4%	0.4%
5	88.5	-5.9%	0.1%
6	93.6	-3.0%	-0.4%
7	88.9	-6.2%	1.7%
8	87.3	-5.0%	4.9%
9	82.4	-3.6%	11.3%
10	77.4	-1.8%	12.7%
11	79.8	4.9%	11.4%
12	88.7	4.4%	2.7%
13	88.7	4.0%	-5.1%
14	91.2	2.2%	-3.8%
15	82.7	-0.1%	-9.2%
16	82.8	-2.2%	-7.6%

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4