

# TRULINE 1A TUNABLE WHITE

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

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REV 12.14.22



### Let The Drywall Be Your Canvas

#### DESCRIPTION

PureEdge pioneered the TruLine 1A Plaster-in 24VDC LED system that Recesses within 5/8" drywall, without any joist modification. 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 40' 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. 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](#). Includes a 5-year pro-rated warranty. For custom designs and quotes, send drawings to [design@PureEdgeLighting.com](mailto: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 Build-It-Yourself (BIY) 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. Order in 1' increments, field-cuttable to any length.

#### MAXIMUM LENGTHS BEFORE RE-FEEDING:

- 2WDC, 2.5 watts per foot - 40'
- 5WDC, 4.4 watts per foot - 20'
- 7WDC, 7.3 watts per foot - 12'

#### LAMP

- Tunable White: 2000K-6500K (**2K6K**) and 2700K-6500K (**27K6**) grants independent control for adjusting color temperature and intensity
- Lumen Performance: 406lm/ft at 3000K 7W per foot
- Average life: 50,000 hours
- For additional color temperatures refer to other specifications

#### 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](#)
- [Controls](#)

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

#### APPLICATIONS

Designed for any Indoor space with drywall, including Damp locations. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

#### COMPLIANCE

ETL Listed, RoHS, Class 2, Title 24 JA8 listed, Made in USA.

For quick & easy reference, plus the most up-to-date pricing, use our [TruLine 1A Configurator](#)

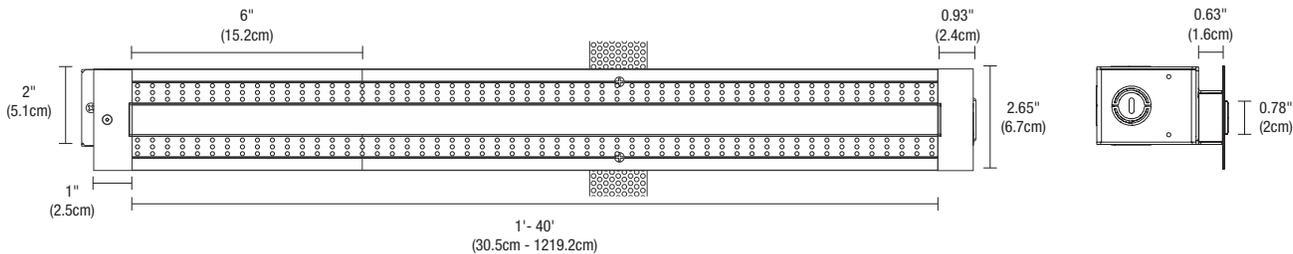
PureEdge is the Original Designer of 5/8" Drywall Lighting Products with the most Experience in the industry.

System	Watts Per Foot	Length in Feet	Color Temperature
<b>TL1A</b>	<b>5WDC</b>	<b>20FT</b>	<b>ST2K6K</b>
<b>TL1A</b> TruLine 1A	<b>2WDC</b> 2.5 Watts (40ft Max) <b>5WDC</b> 4.4 Watts (20ft Max) <b>7WDC</b> 7.3 Watts (12ft Max)	<b>1-40FT</b> <b>1-20FT</b> <b>1-12FT</b>	<b>ST2K6K</b> Tunable White 2000K-6500K <b>ST27K6</b> Tunable White 2700K-6500K

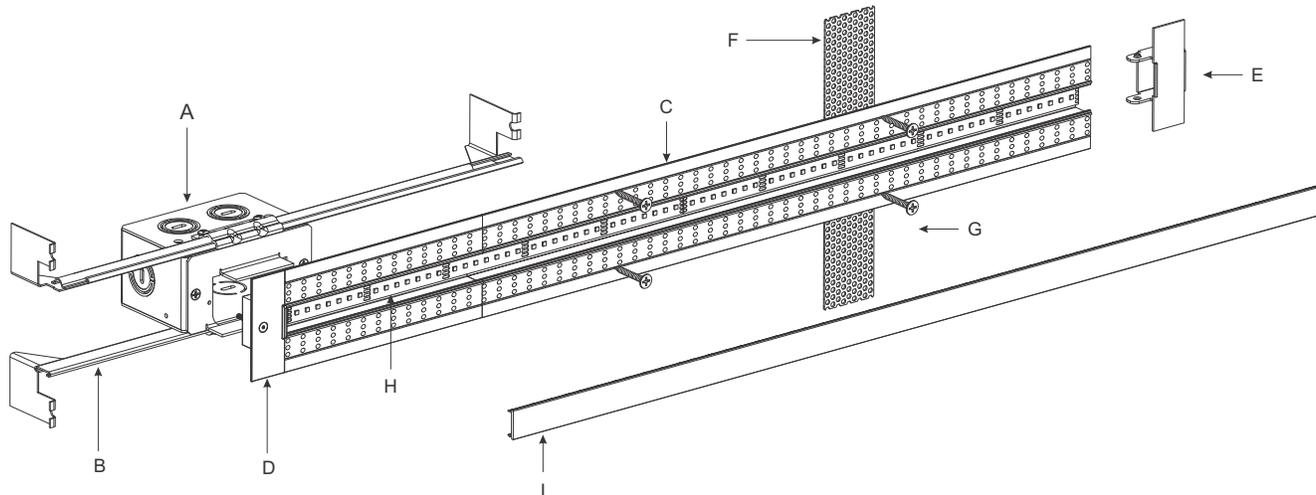
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## 24VDC, 5/8" DRYWALL PLASTER-IN LED SYSTEM



### 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 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 SCREW

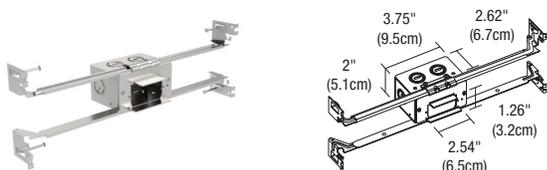
Secures channel to drywall and stud.

#### H. LED STRIP

Your selection of LED CCT.

#### I. LENS

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



#### JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with TruLine 1A. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

System	Size	Component
<b>TL1A</b>	<b>1RE</b>	<b>JBOX</b>
TL1A TruLine 1A	1RE 1" Rectangle	JBOX Junction Box

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# TRULINE 1A TUNABLE WHITE

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

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### DELIVERED LUMENS

WATTS PER FOOT	TUNABLE WHITE 2K6K (2000K-6500K)										TUNABLE WHITE 2K6K (2000K-6500K)										TUNABLE WHITE 2K6K (2000K-6500K)									
	2.5W										4.4W										7.3W									
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)	101	103	104	106	107	110	120	129	138	246	256	266	276	286	306	328	331	336	342	358	374	390	406	438	461	466	470			
LUMENS PER WATT (lm/w)	55	51	52	53	54	55	60	65	77	53	53	55	57	59	64	68	69	73	53	50	52	54	56	61	64	65	73			
CRI	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+	91+	91+	91+	91+	91+	94+	94+	94+	91+			

WATTS PER FOOT	TUNABLE WHITE 27K6 (2700K-6500K)								TUNABLE WHITE 27K6 (2700K-6500K)								TUNABLE WHITE 27K6 (2700K-6500K)							
	2.5W								4.4W								7.3W							
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K			
LUMENS PER FOOT (lm/ft)	110	130	134	137	150	162	154	274	280	291	301	298	296	295	370	379	393	407	402	399	398			
LUMENS PER WATT (lm/w)	55	52	54	55	60	65	77	69	61	63	66	65	64	74	58	53	55	57	56	55	62			
CRI	92+	92+	92+	95+	93+	93+	93+	92+	92+	92+	95+	93+	93+	93+	92+	92+	92+	95+	93+	93+	93+			

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

2.5 WATTS PER FOOT			
LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	3	21	51
2	5	22	54
3	8	23	56
4	10	24	58
5	13	25	61
6	15	26	63
7	17	27	66
8	20	28	68
9	22	29	70
10	24	30	72
11	27	31	51
12	29	32	54
13	32	33	56
14	34	34	58
15	37	35	61
16	39	36	63
17	41	37	66
18	44	38	68
19	46	39	70
20	48	40	72

5 WATTS PER FOOT	
LENGTH IN FEET	WATTS
1	5
2	10
3	16
4	20
5	24
6	30
7	34
8	40
9	44
10	48
11	54
12	58
13	64
14	68
15	72
16	78
17	82
18	88
19	92
20	96

7 WATTS PER FOOT	
LENGTH IN FEET	WATTS
1	7.5
2	15
3	22.5
4	30
5	37.5
6	45
7	52.5
8	60
9	67.5
10	75
11	82.5
12	90

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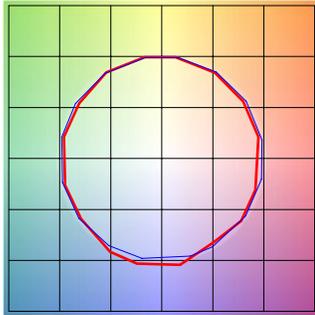
# TM30 DATA

## 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

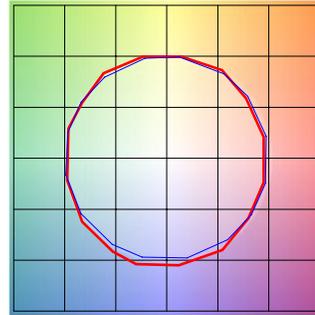


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	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

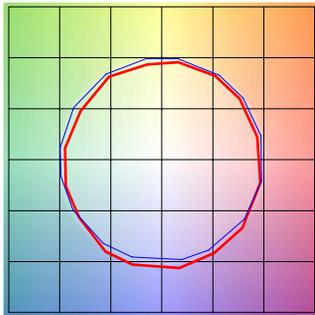


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	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

		GRAPHIC SHIFTS %	
HUE BIN	Rf	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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