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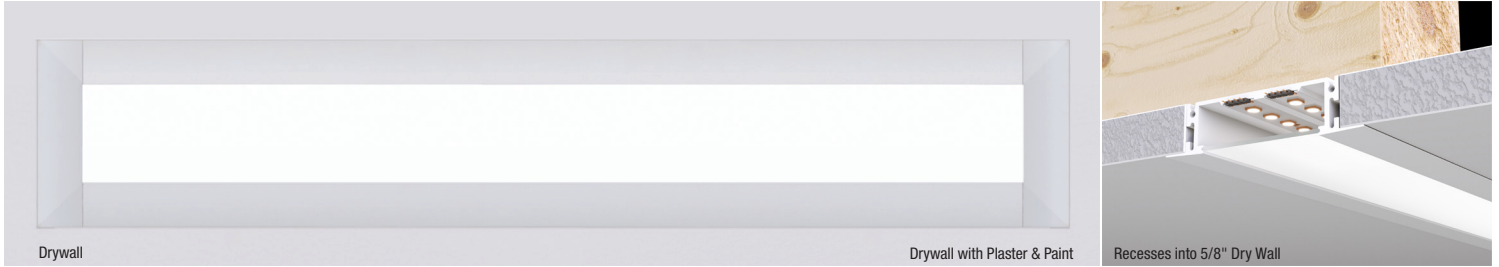## 24VDC LED SYSTEM, 1/2" TRIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 09.18.23

PURE EDGE
Pure Smart Lighting

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

## 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 is offered in a broad range of wattages and color temperatures up to 95+ CRI, ranging from **2400K** through **4000K**. Click here for all Other Color Temperatures. 24VDC Remote Power Supplies are required and sold separately. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom designs and quotes, email your 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

• Offered in multiple Static White Color Temperatures: 2400K, 2700K, 3000K, 3500K & 4000K
• Lumen Performance: 1370lm/ft at 3000K 14W per foot
• Designer Grade High CRI 95+ LEDs
• Average life: 50,000 hours
• For additional color temperatures refer to other 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
• UNI Driver: Universal Dimming **(TRIAC, ELV, 0-10V)**
*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
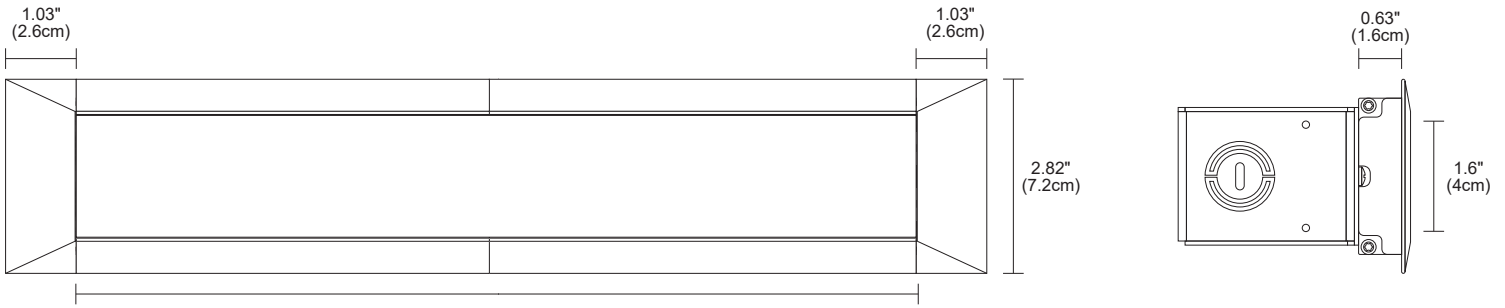
## COMPLIANCE

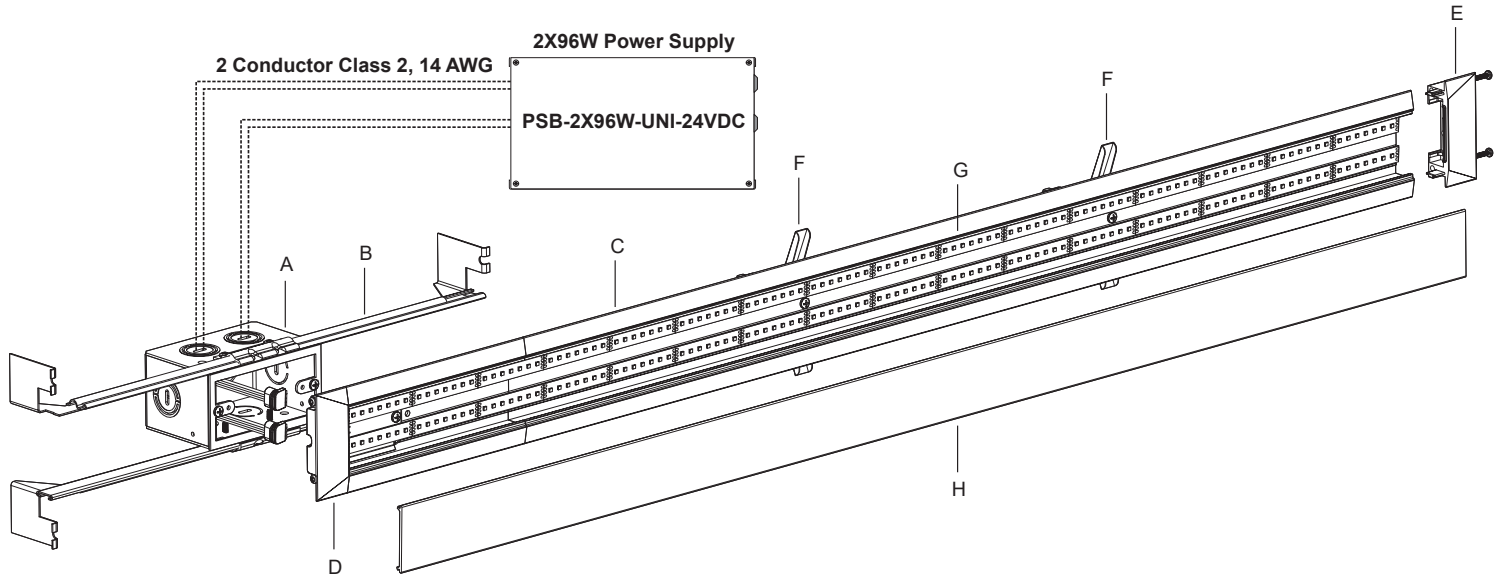ETL, Class 2, Indoor Damp Location, Assembled in the USA

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 |
|---|---|---|---|
| **TTL1.6A** | **5WDC** | **40FT** | **ST27K** |
| TTL1.6A TruLine Trim 1.6A | 5WDC 2x2.5 Watts (40 ft Max)<br>10WDC 2x5 Watts (20 ft Max)<br>14WDC 2x7.5 Watts (12 ft Max) | 1-40FT<br>1-20FT<br>1-12FT | ST24K 2400K Very Warm White<br>ST27K 2700K Incandescent White<br>ST30K 3000K Warm White<br>ST35K 3500K Neutral White<br>ST40K 4000K Cool White |

| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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1.03"
(2.6cm)

1.03"
(2.6cm)

0.63"
(1.6cm)

2.82"
(7.2cm)

1.6"
(4cm)

## INCLUDED COMPONENTS

2 Conductor Class 2, 14 AWG

2X96W Power Supply

PSB-2X96W-UNI-24VDC

E

F

F

G

A

B

C

H

D

### 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.
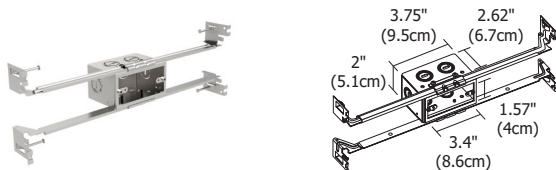
### F. TOGGLE BOLT AND SCREW
Secures channel to drywall and stud.

### 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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|---|---|---|---|---|---|

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## 24VDC LED SYSTEM, 1/2" TRIM

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## NOMINAL DELIVERED LUMENS

| WATTS PER FOOT | STATIC WHITE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5W (2x2.5 Watts) | | | | | 10W (2x4.4 Watts) | | | | | 14W (2x7.5 Watts) | | | | |
| COLOR TEMPERATURE | 24K | 27K | 30K | 35K | 40K | 24K | 27K | 30K | 35K | 40K | 24K | 27K | 30K | 35K | 40K |
| LUMENS PER FOOT (lm/ft) | 456 | 461 | 480 | 551 | 581 | 843 | 852 | 887 | 1018 | 1073 | 1301 | 1315 | 1370 | 1572 | 1572 |
| LUMENS PER WATT (lm/w) | 91 | 92 | 96 | 110 | 116 | 96 | 97 | 101 | 116 | 122 | 89 | 90 | 94 | 108 | 108 |
| CRI | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ |

**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 4.4W)

| 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 7.5W)

| 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 |

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|---|---|---|---|---|---|

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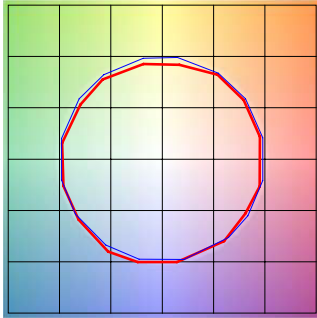
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**TM-30-15 DATA:** The data below is for bare LED Static White Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

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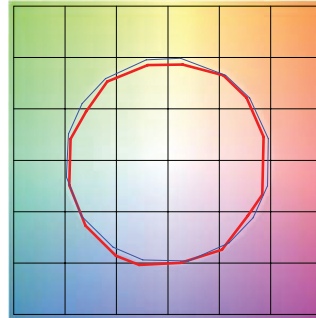**2400K** | Rf: 84.5 | Rg: 94.4
Color Vector Graphic



| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 92 | -2.4% | 1.5% |
| 2 | 94.7 | -2.1% | -0.0% |
| 3 | 95.4 | -1.9% | -0.1% |
| 4 | 88.7 | -6.7% | -3.1% |
| 5 | 92.8 | -5.6% | 1.0% |
| 6 | 92.7 | -3.4% | 3.4% |
| 7 | 89.9 | -4.3% | 4.1% |
| 8 | 92.4 | -1.4% | 4.4% |
| 9 | 89 | -0.6% | 5.8% |
| 10 | 88.9 | 0.4% | 6.2% |
| 11 | 89.7 | 4.0% | 5.4% |
| 12 | 92.6 | 3.0% | -0.7% |
| 13 | 90.9 | 1.1% | -7.0% |
| 14 | 89.9 | 0.5% | -5.8% |
| 15 | 92.1 | -3.2% | 0.1% |
| 16 | 88.9 | -1.7% | -6.3% |

Test    Reference

**2700K** | Rf: 87.7 | Rg: 96.1
Color Vector Graphic



| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 88.0 | -4.3% | 2.6% |
| 2 | 91.6 | -2.4% | 2.0% |
| 3 | 93.7 | -1.4% | 1.9% |
| 4 | 88.9 | -5.6% | -3.1% |
| 5 | 92.3 | -5.5% | -0.5% |
| 6 | 92.9 | -3.5% | 0.1% |
| 7 | 84.5 | -7.5% | 4.6% |
| 8 | 90.8 | -3.0% | 4.4% |
| 9 | 84.5 | -1.3% | 8.3% |
| 10 | 83.9 | 2.0% | 9.8% |
| 11 | 87.2 | 5.3% | 7.1% |
| 12 | 89.2 | 5.4% | -2.6% |
| 13 | 88.7 | 0.3% | -7.8% |
| 14 | 86.8 | 1.7% | -9.3% |
| 15 | 87.6 | -5.4% | -1.3% |
| 16 | 83.6 | -3.3% | -9.5% |

Test    Reference

**3000K** | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
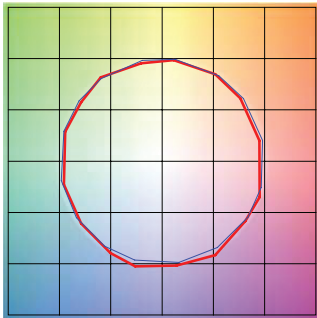


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 92.5 | -3.1% | 0.3% |
| 2 | 93.3 | -2.3% | 1.9% |
| 3 | 90.9 | -0.8% | 3.9% |
| 4 | 94.3 | -1.1% | 1.4% |
| 5 | 92.5 | -2.6% | 1.5% |
| 6 | 96.4 | 1.2% | -0.3% |
| 7 | 92.6 | -2.5% | -0.0% |
| 8 | 96.9 | -1.4% | 0.2% |
| 9 | 92.3 | -1.8% | 4.3% |
| 10 | 86.6 | -0.7% | 7.0% |
| 11 | 86.5 | 2.4% | 8.2% |
| 12 | 89.8 | 5.9% | 1.7% |
| 13 | 93.9 | 2.6% | -2.7% |
| 14 | 89.4 | 5.1% | -5.8% |
| 15 | 90.1 | -0.1% | -4.7% |
| 16 | 86.5 | 0.3% | -9.7% |

Test    Reference

**3500K** | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
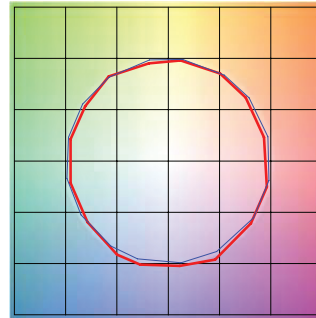


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 90.8 | -3.8% | 0.3% |
| 2 | 92.3 | -2.8% | 2.1% |
| 3 | 89.7 | -1.0% | 4.3% |
| 4 | 92.6 | -1.4% | 1.7% |
| 5 | 91.8 | -3.1% | 1.3% |
| 6 | 96.2 | 0.8% | -0.4% |
| 7 | 92.9 | -3.2% | 0.2% |
| 8 | 94.3 | -2.5% | 1.5% |
| 9 | 90.4 | -2.5% | 5.2% |
| 10 | 84.3 | -1.4% | 9.5% |
| 11 | 83.1 | 3.5% | 9.8% |
| 12 | 88.2 | 4.8% | 3.4% |
| 13 | 94.0 | 2.7% | -2.0% |
| 14 | 88.7 | 5.9% | -5.8% |
| 15 | 88.7 | 0.7% | -5.9% |
| 16 | 86.8 | -0.7% | -6.7% |

Test    Reference

**4000K** | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
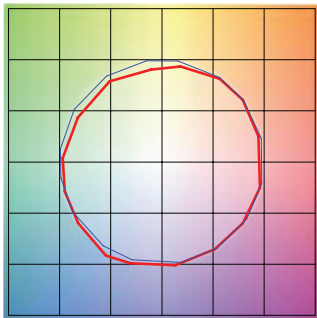


| HUE BIN | Rf | GRAPHIC SHIFTS % | |
| | | CHROMA | HUE |
|---|---|---|---|
| 1 | 88.9 | -2.4% | 2.5% |
| 2 | 93.3 | -0.4% | 0.8% |
| 3 | 94.8 | -1.0% | -0.6% |
| 4 | 87.9 | -4.9% | -3.6% |
| 5 | 85.3 | -9.4% | -2.6% |
| 6 | 90.2 | -6.0% | 0.2% |
| 7 | 85.3 | -7.6% | 4.6% |
| 8 | 83.7 | -4.1% | 8.2% |
| 9 | 79.5 | -1.1% | 13.8% |
| 10 | 78.6 | 1.5% | 12.1% |
| 11 | 83.5 | 6.4% | 7.8% |
| 12 | 90.9 | 3.6% | -1.1% |
| 13 | 88.3 | 1.7% | -6.3% |
| 14 | 91.9 | -0.4% | -2.2% |
| 15 | 84.5 | -0.9% | -5.5% |
| 16 | 84.7 | -1.1% | -4.4% |

Test    Reference

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| PROJECT | | FIXTURE TYPE | | DATE | |
|---|---|---|---|---|---|

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