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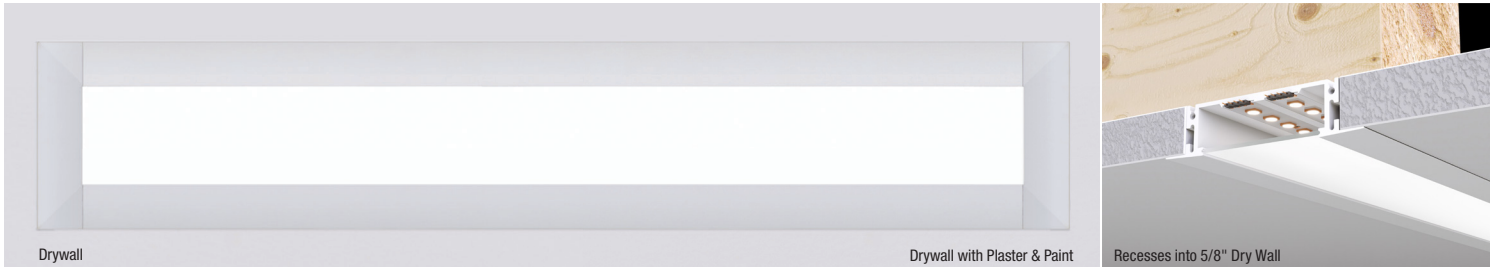## 24VDC LED SYSTEM, 1/2" TRIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA   REV 04.01.25

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

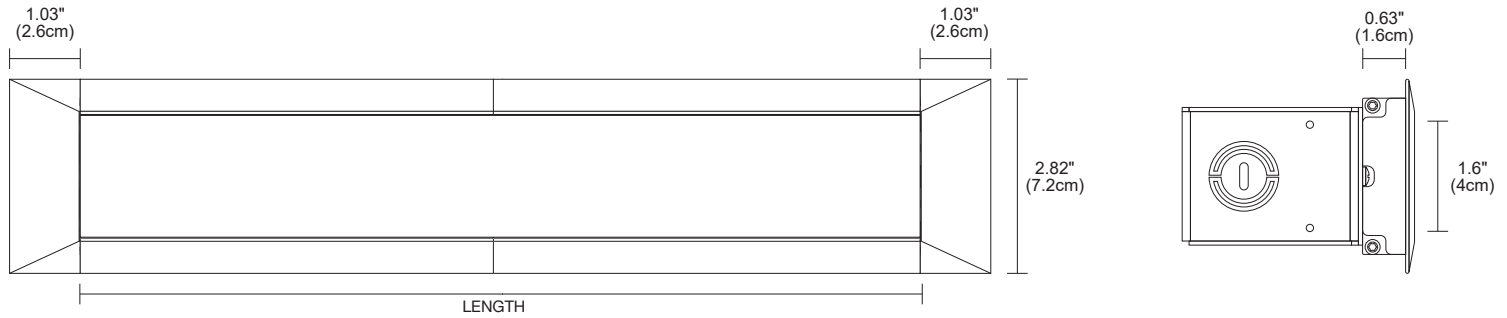ETL, Class 2, Indoor Damp Location, Assembled in the USA

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		Finish
TTL1.6A	–	**5WDC**	–	**40FT**	–	**ST27K**	–	**WH**

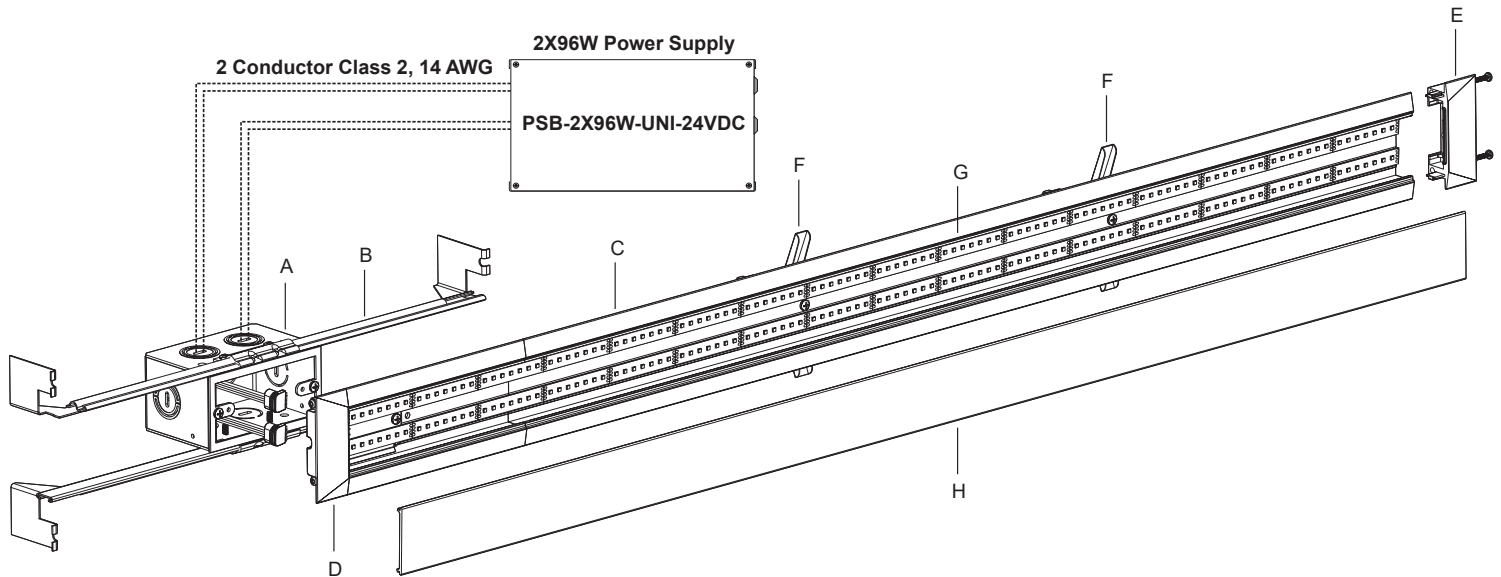| System	Watts Per Foot	Length in Feet	Color Temperature	Finish
TTL1.6A TruLine Trim 1.6A	5WDC 2x2.5 Watts (40 ft Max) 10WDC 2x5 Watts (20 ft Max) 14WDC 2x7.5 Watts (12 ft Max)	1-40FT 1-20FT 1-12FT	ST24K 2400K Very Warm White ST27K 2700K Incandescent White ST30K 3000K Warm White ST35K 3500K Neutral White ST40K 4000K Cool White	BK Black WH White RAL 9010

PROJECT		FIXTURE TYPE		DATE	

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

PURE EDGE
PureSmart Lighting

REV 04.01.25

1.03"
(2.6cm)

1.03"
(2.6cm)

0.63"
(1.6cm)

2.82"
(7.2cm)

1.6"
(4cm)

LENGTH

INCLUDED COMPONENTS, TRADITIONAL DIMMING

2X96W Power Supply

2 Conductor Class 2, 14 AWG

PSB-2X96W-UNI-24VDC

A   B   C   D   E   F   G   H

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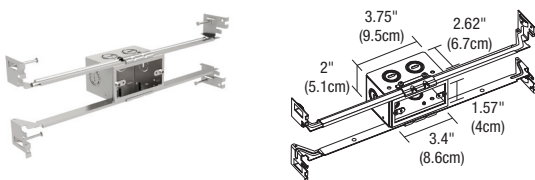
F. TOGGLE BOLT AND SCREW
Secures channel to drywall and stud.

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.

3.75"
(9.5cm)

2.62"
(6.7cm)

2"
(5.1cm)

1.57"
(4cm)

3.4"
(8.6cm)

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

PROJECT		FIXTURE TYPE		DATE	

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

PURE EDGE
PureSmart Lighting

INCLUDED COMPONENTS, SMART DIMMING
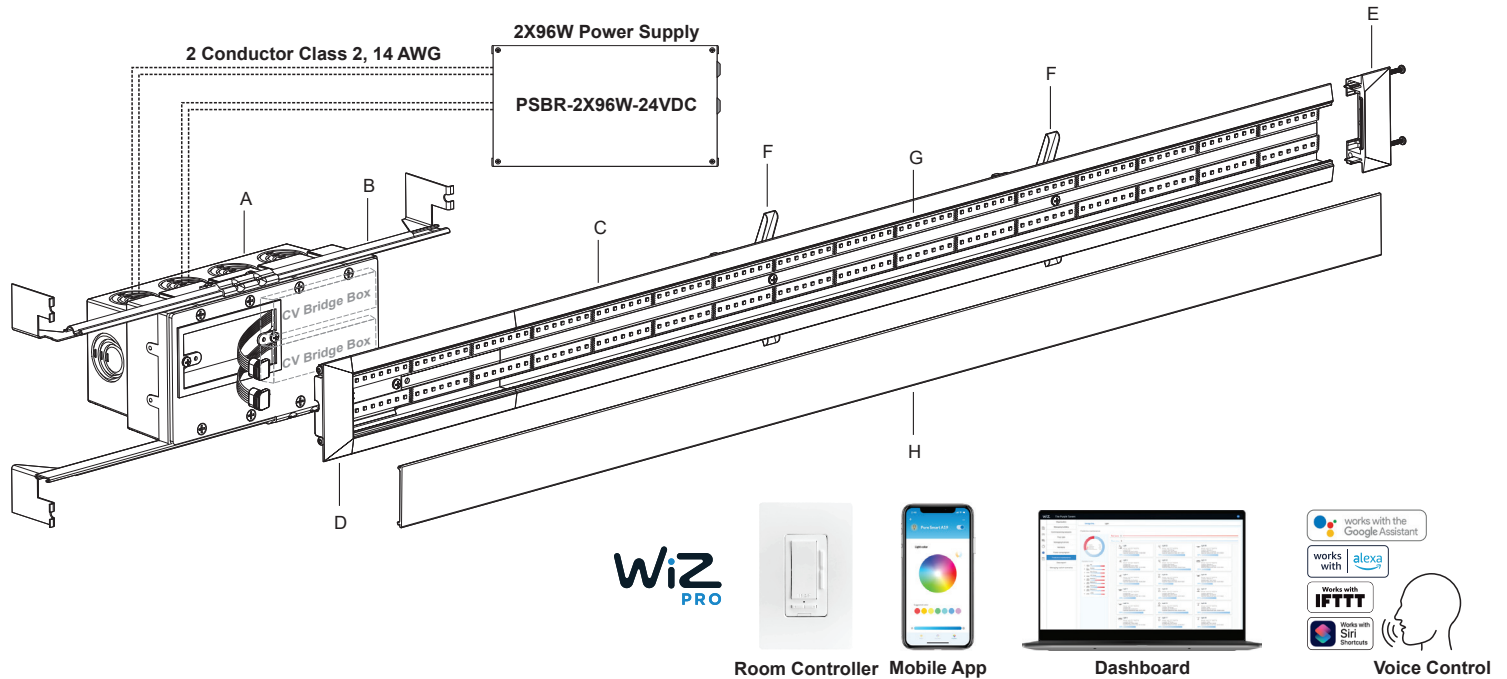
2 Conductor Class 2, 14 AWG

2X96W Power Supply

PSBR-2X96W-24VDC

CV Bridge Box

CV Bridge Box

Room Controller   Mobile App   Dashboard   Voice Control

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 channel Includes 2 Pure Smart WiZ Pro CV Bridgeboxes per power feed. Required at the beginning of each run and necessary to rough-in electrical before TruLine installation.

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 Strip.

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 when wall stud is unavailable.

G. LED STRIP
Your choice of PureEdge LED Strip. **Order TWO LED Strip Lengths, per total section run Length** (Include End Feeds, Center Feeds, Corner Connectors, L-Picture Frames and all Channel Lengths).

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

6" (15.2cm)

0.52" (1.3cm)   0.36" (0.9cm)

0.5" (1.3cm)
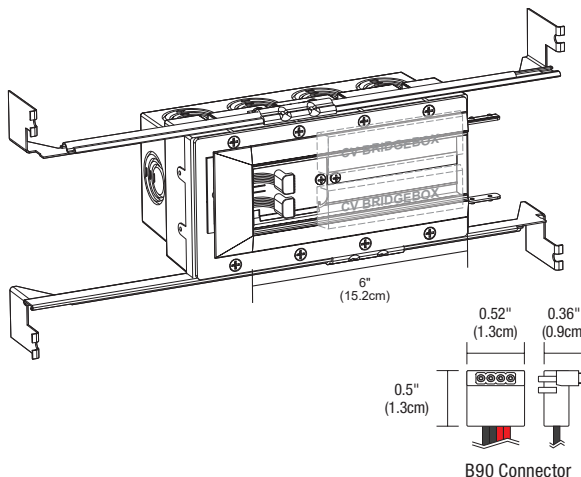
B90 Connector

PURE SMART END FEED POWER CONNECTOR WITH WIZ PRO CV BRIDGEBOX & JUNCTION BOX
Includes WiZ Pro CV Bridgebox in a 4 gang Junction Box with adjustable bar hangers, B90 Pin Connector for LED strip, and Channel Joiners. LED Strip (not included) may be installed flat on the bottom or side of the channel. Two Class 2, 14 AWG stranded conductors from the Remote Power Supply up to 40 ft away are required.

System		Control		Ceiling/Wall Type		Color Temperature		Finish
TTL1.6A	–	**WZ**	–	**EP4G**	–	**DW**	–	**WH**

TTL1.6A TruLine Trim 1.6A	**WZ** WiZ Pro Smart System	**EP4G** End Feed Power 4 Gang Junction Box	**DW** Static White	**BK** Black **WH** White RAL 9010

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PureEdge Lighting reserves the right to modify this specification without prior notice

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PROJECT   FIXTURE TYPE   DATE

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

PURE EDGE
PureSmart Lighting

NOMINAL DELIVERED LUMENS

	STATIC WHITE													
WATTS PER FOOT	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

| PROJECT		FIXTURE TYPE		DATE	

LED STRIP TM30 DATA
24VDC, LED SYSTEM

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.

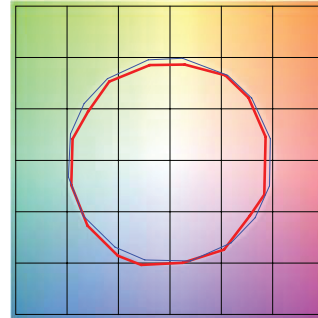
2400K | Rf: 84.5 | Rg: 94.4
Color Vector Graphic
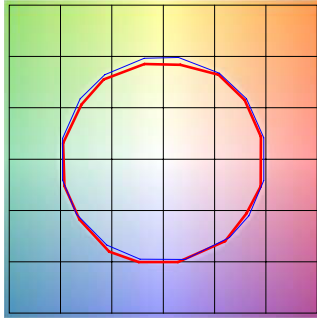
■ Test ■ Reference

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%

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

■ Test ■ Reference

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%

3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
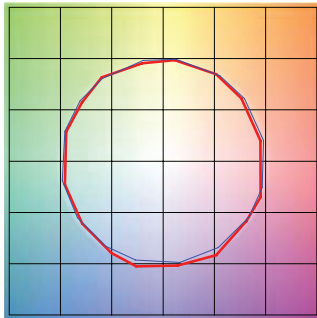
■ Test ■ Reference

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%

3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
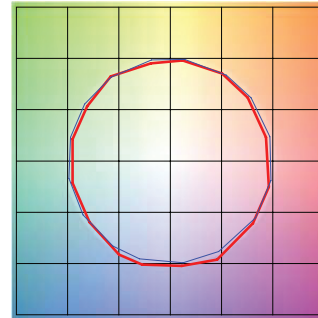
■ Test ■ Reference

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%

4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
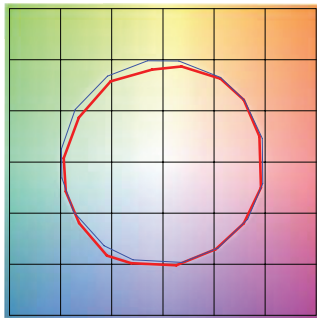
■ Test ■ Reference

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%

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