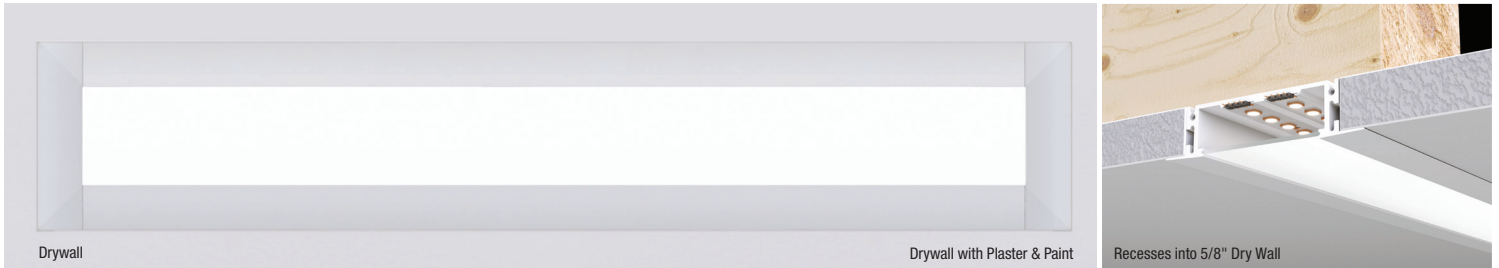


TRULINE TRIM 1.6A TUNABLE WHITE

24VDC LED SYSTEM, 1/2" TRIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 06.08.26



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-4000K (**2K4K**), 2000K-6500K (**2K6K**) & 2700K-6500K (**27K6**) grants independent control for adjusting color temperature and intensity
- Lumen Performance: 1238 lm/ft at 3000K 14W per foot with the High Output strip
- 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](#)
- [DALI/DALI-2](#)
- [2-in-1 Power Driver And Dimmer](#) (ELV)

*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

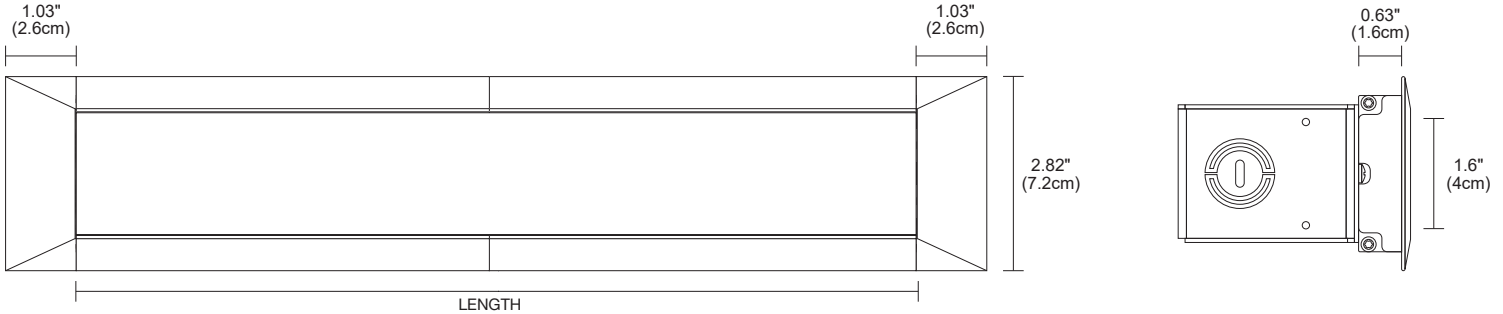
PureEdge is the Original Designer of 5/8" Drywall Lighting Products with the Most Experience in the industry.

System	Watts Per Foot	Length in Feet	Color Temperature	Finish
TTL1.6A	5WDC	40FT	ST2K6K	WH
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 (5W) 1-20FT (10W) 1-12FT (14W)	ST2K6K Tunable White 2000K-6500K ST27K6 Tunable White 2700K-6500K 2K4KH Tunable White 2000K-4000K	BK Black WH White RAL 9010

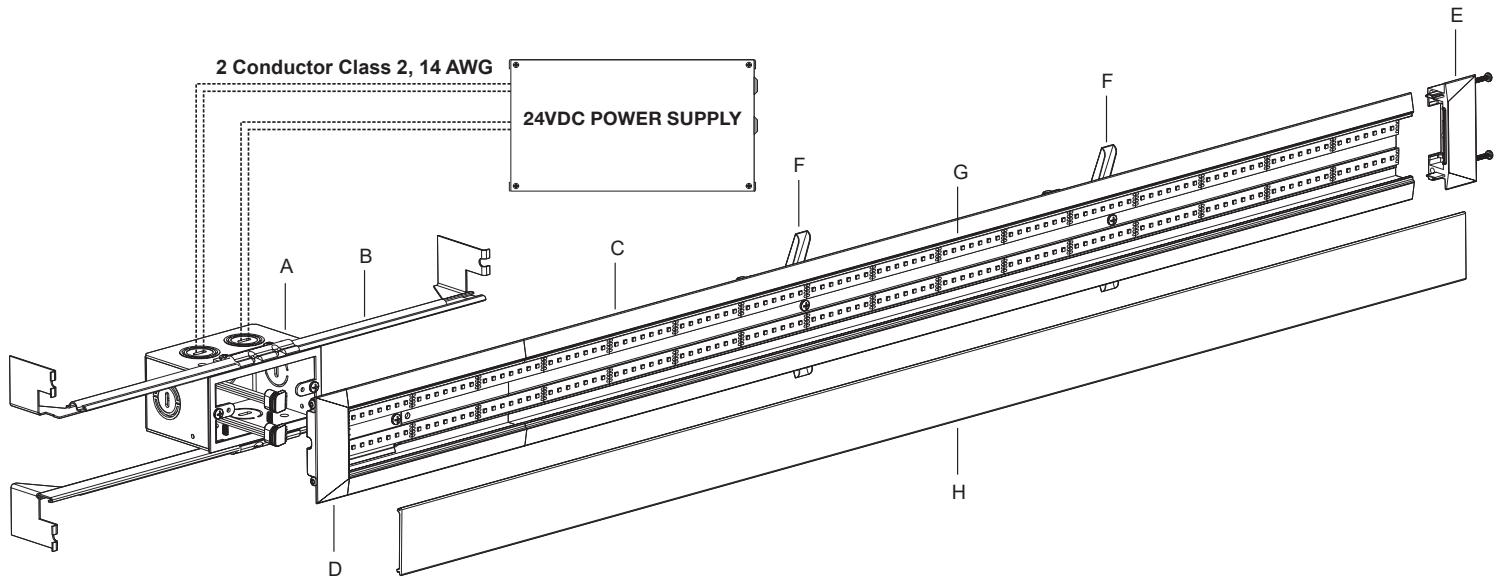
TRULINE TRIM 1.6A TUNABLE WHITE

24VDC LED SYSTEM, 1/2" TRIM

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INCLUDED COMPONENTS, TRADITIONAL DIMMING



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

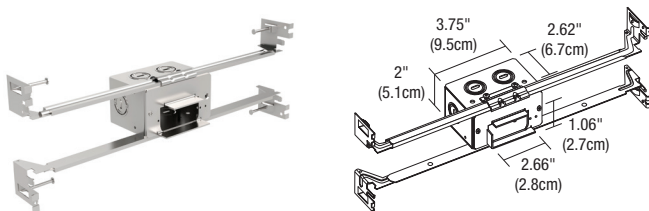
Secures channel to drywall and stud.

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

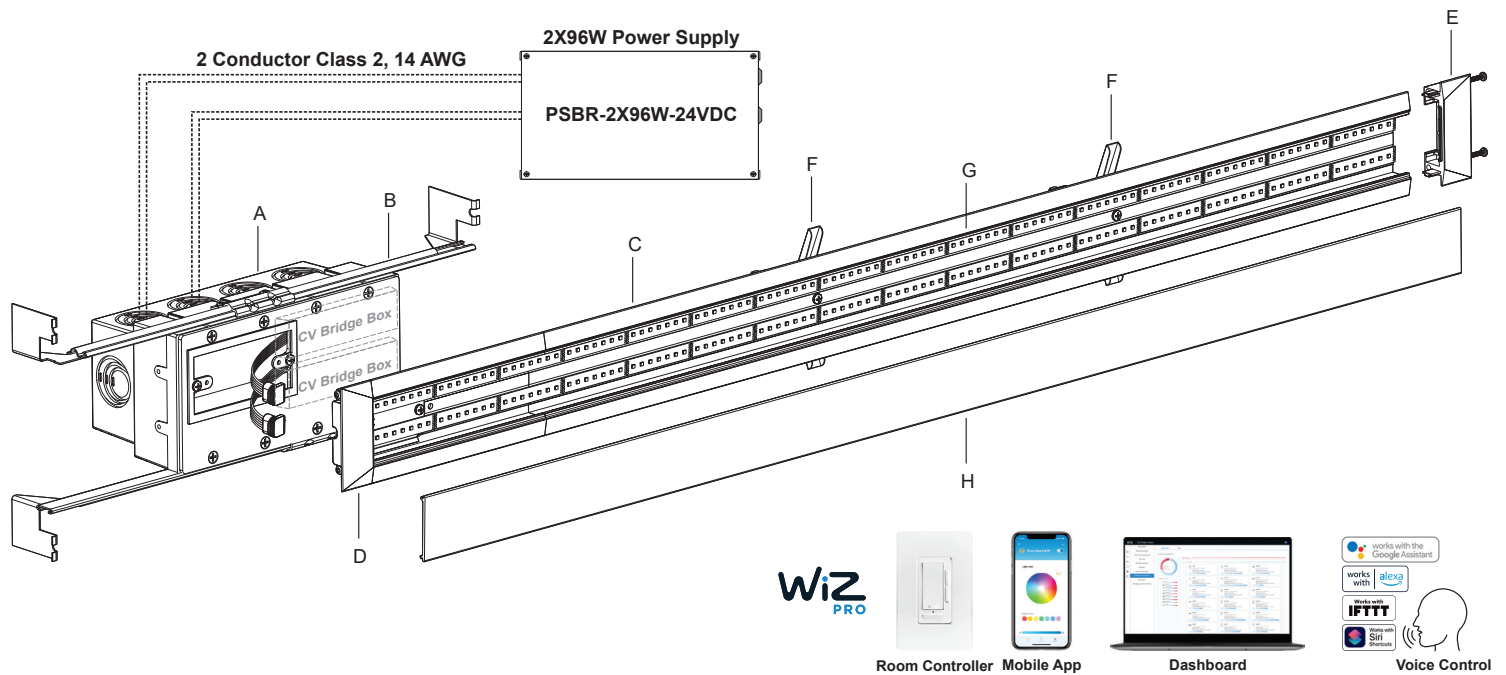
One Junction Box is included with TruLine 1.6A. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

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

TRULINE TRIM 1.6A TUNABLE WHITE

24VDC LED SYSTEM, 1/2" TRIM

INCLUDED COMPONENTS, SMART DIMMING



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

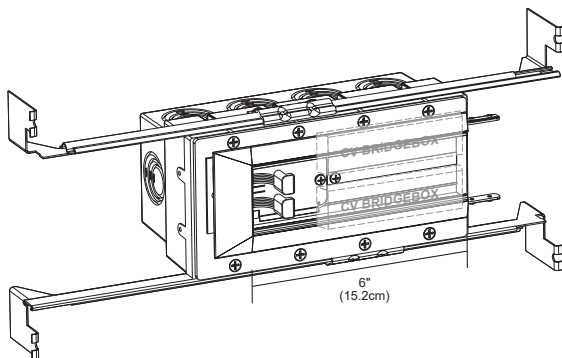
Secures channel to drywall when wall stud is unavailable.

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.



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	TW	WH
TTL1.6A Truline Trim 1.6A	WZ WiZ Pro Smart System	EP4G End Feed Power 4 Gang Junction Box	TW Tunable White	BK Black WH White RAL 9010

TRULINE TRIM 1.6A TUNABLE WHITE

24VDC LED SYSTEM, 1/2" TRIM

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NOMINAL DELIVERED LUMENS

TUNABLE WHITE 2K4K (2000K-4000K) HIGH OUTPUT																						
WATTS PER FOOT	5W (2x2.5 Watts)							10W (2x4.6 Watts)							14W (2x7.3 Watts)							
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	20K	22K	24K	27K	30K	35K	40K	20K	22K	24K	27K	30K	35K	40K	
LUMENS PER FOOT (lm/ft)	318	411	411	415	433	496	484	797	1158	1158	1170	1218	1398	1196	796	1176	1176	1188	1238	1420	1203	
LUMENS PER WATT (lm/w)	135	169	165	163	165	190	186	150	206	197	190	189	229	208	141	197	186	179	177	217	198	
CRI	93	93	93	96	96	93	93	92	92	92	95	95	93	93	93	93	93	96	96	92	92	

	TUNABLE WHITE 2K6K (2000K-6500K)																										
WATTS PER FOOT	5W (2x2.5 Watts)									10W (2x4.6 Watts)									14W (2x7.3 Watts)								
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)	249	235	221	207	193	165	180	194	208	736	766	796	826	856	916	982	991	1000	1024	1072	1120	1168	1216	1312	1382	1396	1410
LUMENS PER WATT (lm/w)	135	118	111	103	96	82	90	97	115	160	160	166	172	178	191	205	206	217	160	149	156	162	169	182	192	194	220
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+

	TUNABLE WHITE 2K6K (2000K-6500K)																				
WATTS PER FOOT	5W (2x2.5 Watts)							10W (2x4.6 Watts)							14W (2x7.3 Watts)						
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)	264	313	322	330	361	389	370	659	674	699	724	716	710	708	889	910	944	978	967	959	956
LUMENS PER WATT (lm/w)	71	78	80	83	90	97	100	82	73	76	79	78	77	89	69	63	66	68	67	67	75
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](#).

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

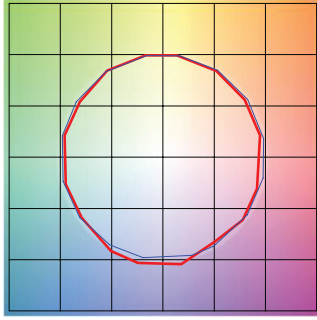
LED STRIP TM30 DATA

24VDC, 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

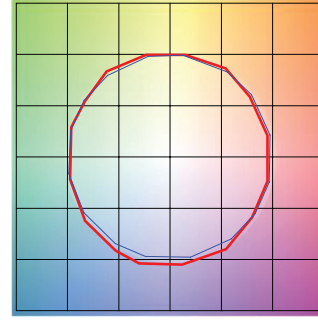


■ Test ■ Reference

		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

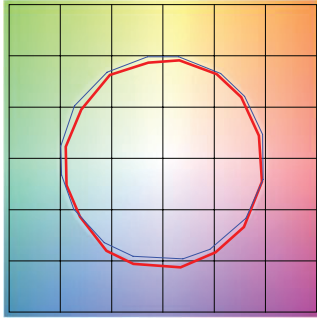


■ Test ■ Reference

		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%