LAZER STRIP COB™ STATIC WHITE
3W & 5W, 24VDC

PURE EDGE LIGHTING | **WiZ PRO**

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | PATENT PENDING

REV 04.18.22

24KZ - 2400K Amber White

27KZ - 2700K Very Warm White

30KZ - 3000K Warm White

35KZ - 3500K Neutral White

40KZ - 4000K Neutral White

Pin Connector

6' Soldered Lead, 1 End

6' Soldered Leads, 2 Ends

Snap and Light

FEATURES & BENEFITS

- 148 LEDs per foot provide uniform light distribution without pixelation
- Offered with Snap & Light, Pin Connectors or, Pre-soldered leads reducing time and labor during installation
- Gold Plated Contacts prevent oxidation to ensure longevity of LED
- 4 oz of copper with 12 mm wide board provides better heat dissipation and less voltage drop
- 24VDC LED Lazer Strip COB (Chip on Board) offers 5 static white color temperatures
- Up to 94+ CRI
- Solid State Power Supply offers 85-90% efficiency compared to magnetic at 80%
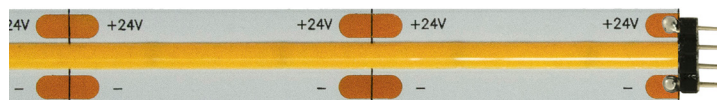- Includes a 5-year pro-rated warranty

SPECIFICATIONS

- 24VDC LED Lazer Strip with 120° beam angle
- Power: 3.3 or 4.4 watts per foot
- May be field-cut in 2.4" increments
- Sold in 1' increments
- Class 2 Damp Listing; 100 watt limit per power supply
- Operating temperature: -22°F to 140°F (-30°C to 60°C)
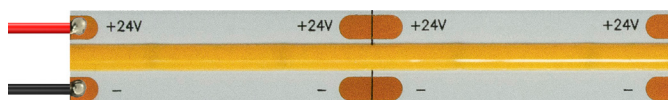
LAMP DATA:

- Five Static White Color Temperatures: 2400K, 2700K, 3000K, 3500K, 4000K
- Average life is 50,000 hours
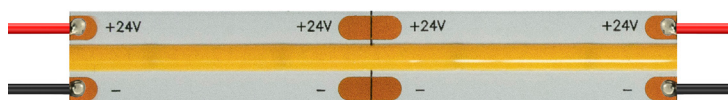
INCLUDED COMPONENTS

- LS3 or LS5 24VDC LED Lazer Strip
- 3M™ Adhesive Tape Backing

ACCESSORIES (SOLD SEPARATELY)

- 24VDC Power Jumpers
- Connectors
- Mounting Straps & Clips

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

24VDC, Class 2 wiring

- **WiZ** Pro Connected, Pure Smart™ Power Supplies & Controls
- UNI Driver: Universal Dimming **(TRIAC, ELV, 0-10V)**
- Lutron Hi-Lume/Ecosystem

*In-Wall Mounting Kits available for select power supplies

MOUNTING

- Industrial 3M tape lines back of strip for self-adhesion to most smooth finished surfaces including ceiling, walls, cabinets and drawers
- Additional Pin Connectors, Mounting Straps, and Clips may be needed for some applications (sold separately)

APPLICATIONS

Indoor and damp locations. Applications include coves, toe-kicks, under cabinets and shelving, bookcases, drawers, pathways, accent lighting, task lighting, and general illumination

System		Type		Voltage		Length In Feet		Color Temperature	
LS3		**PIN**		**24V**		**30**		**24KZ**	
LS3	Lazer Strip Commercial, 3.3 watts per foot	PIN	Pin Connector	24V	24 Volt	1-30	1-30 feet (LS3)	24KZ	2400K Amber White
LS5	Lazer Strip Commercial, 4.4 watts per foot	SE1	6' Soldered Lead, 1 End			1-20	1-20 feet (LS5)	27KZ	2700K Very Warm White
		SE2	6' Soldered Leads, 2 Ends					30KZ	3000K Warm White
								35KZ	3500K Neutral White
		Leave blank for Snap and Light						40KZ	4000K Cool White

PROJECT		FIXTURE TYPE		DATE

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LAZER STRIP COB™ STATIC WHITE
3W & 5W, 24VDC

PURE EDGE LIGHTING | **WiZ PRO**

Premium Silicone Coating
LS3 LED Strip
2oz Copper
Insulator
2oz Copper
3M Adhesive Tape
White Finish

LAMP DATA

	LS3					LS5				
WATTS PER FOOT	3W (3.3 watts)					5W (4.4 watts)				
COLOR TEMPERATURE	24KZ	27KZ	30KZ	35KZ	40KZ	24KZ	27KZ	30KZ	35KZ	40KZ
LUMENS PER FOOT (lm/ft)	240	258	271	274	280	264	338	369	423	459
LUMENS PER WATT (lm/w)	73	78	82	83	85	60	77	84	96	85
CRI	91.4	93.4	92.2	94	93.4	91.4	93.4	92.2	94	93.4

POWER CONSUMPTION PER LINEAR FOOT

LS3 24VDC LAZER STRIP (3.3 WATTS PER FOOT)
MAXIMUM LENGTH BEFORE REFEEDING: 30FT

LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TOTAL WATTAGE	3.3	6.6	10	13.2	15	16.5	19.8	16.5	23.1	26.4	29.7	33	36.3	39.6	42.9	46.2	49.5	52.8	56.1	59.4	62.7	66	69.3	72.6	75.9	79.2	82.5	85.8	89.1	92.4

LS5 STATIC WHITE 24VDC LAZER STRIP (4.4 WATTS PER FOOT)
MAXIMUM LENGTH BEFORE REFEEDING: 20FT

LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TOTAL WATTAGE	5	10	15	20	24	29	34	39	44	48	53	58	63	68	72	77	82	87	92	96

Pin Connector

+24V   +24V
−   −
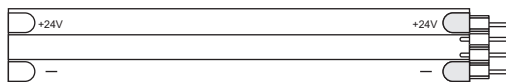
6' Soldered lead, 1 end SE1

+24V   +24V
−   −

6' Soldered lead, 2 ends SE2

+24V   +24V
−   −

Snap and Light

2.4" (6.1cm)
0.15"z (0.4cm)
0.47" (1.2cm)
+24V   +24V
−   −

0.6" (1.5cm)
0.64" (1.6cm)

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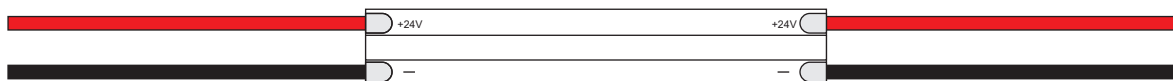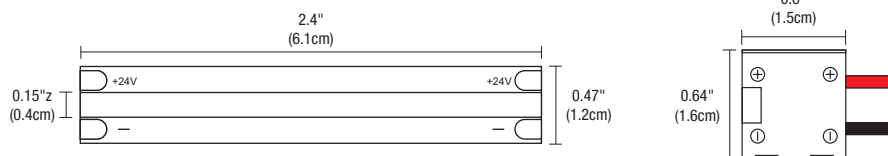
LAZER STRIP ACCESSORIES
PINS & SOLDERED LEADS

PURE EDGE
LIGHTING

Static White

.375"
(.95cm)

RGB

.47"
(1.19cm)

Tunable White

.47"
(1.19cm)

### POWER FEED CONNECTOR
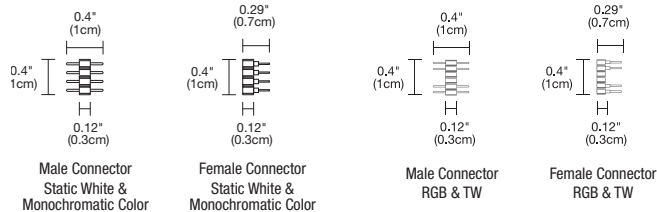Female power feed connector cord conducts power from the power supply to the male end of the LED strip.

System		Type		Size		Color Temperature
LS		**PFE**		**12FT**		
LS Lazer Strip		**PFE** Power Feed Connector Cord		**6FT** 6 Feet **8FT** 8 Feet **12FT** 12 Feet		**RGB** Red, Green, & Blue **TW** Tunable White **Leave Blank for Static White and Monochromatic Color**

Static White

.375"
(.95cm)

RGB

.47"
(1.19cm)

Tunable White

.47"
(1.19cm)
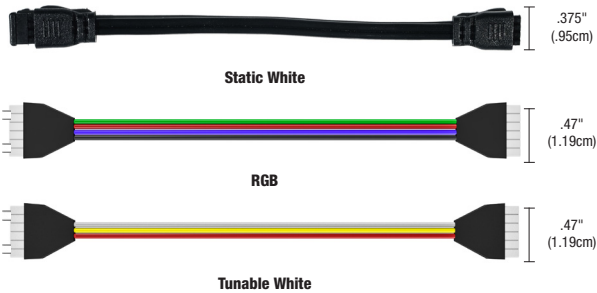
FLEXIBLE CONNECTOR
Flexible connectors link two sections of Lazer Strip end to end.

Product		Type		Size		Color Temperature
LS		**CFX**		**3IN**		
LS Lazer Strip		**CFX** Flexible Connector		**3IN** 3 inches **6IN** 6 inches **12IN** 12 inches **36IN** 36 inches **96IN** 96 inches **144IN** 144 inches		**RGB** Red, Green, & Blue **TW** Tunable White **Leave Blank for Static White and Monochromatic Color**

0.4"
(1cm)

0.4"
1cm

0.12"
(0.3cm)

Male Connector
Static White &
Monochromatic Color

0.29"
(0.7cm)

0.4"
(1cm)

0.12"
(0.3cm)

Female Connector
Static White &
Monochromatic Color

0.4"
(1cm)

0.4"
(1cm)

0.12"
(0.3cm)

Male Connector
RGB & TW

0.29"
(0.7cm)

0.4"
(1cm)

0.12"
(0.3cm)

Female Connector
RGB & TW

PIN CONNECTORS
Extra soldering pin connectors. Male and female.

System	Product	Type	Color Temperature
LS	**ML**	**CON**	
LS Lazer Strip	**FE** Female Connector **ML** Male Connector	**CON** Connector	**RGB** Red, Green & Blue (Tunable White compatible) **Leave Blank for Static White and Monochromatic Color**

TOP

0.63"
(1.6cm)

1.16"
(2.9cm)

0.23"
(0.6cm)

PROFILE

0.63"
(1.6cm)

0.22"
(0.6cm)

0.07"
(0.2cm)

0.48"
(1.2cm)

1.16"
(2.9cm)
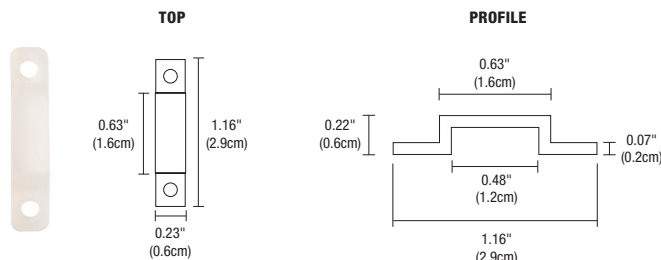
LAZER STRIP U-STRAP
Use every 6 - 12 inches for extra support (30/package).

Product	Type
SS	**SU**
SS Strip Strap	**SU** U-Strap

0.73"
(1.9cm)

0.48"
(1.2cm)

0.08"
(0.2cm)

4.07"
(10.3cm)

0.18"
(0.5cm)

0.21"
(0.5cm)
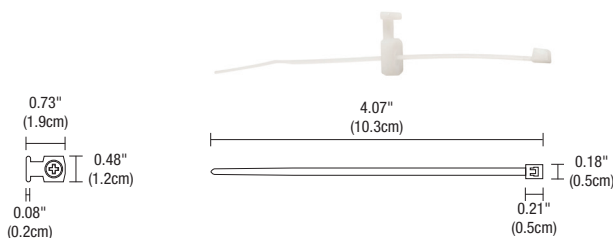
LAZER STRIP TIE STRAP
Use every 6 - 12 inches for extra support (30/package).

Product	Type
SS	**ST**
SS Strip Strap	**ST** Tie Strap

PROJECT		FIXTURE TYPE		DATE	

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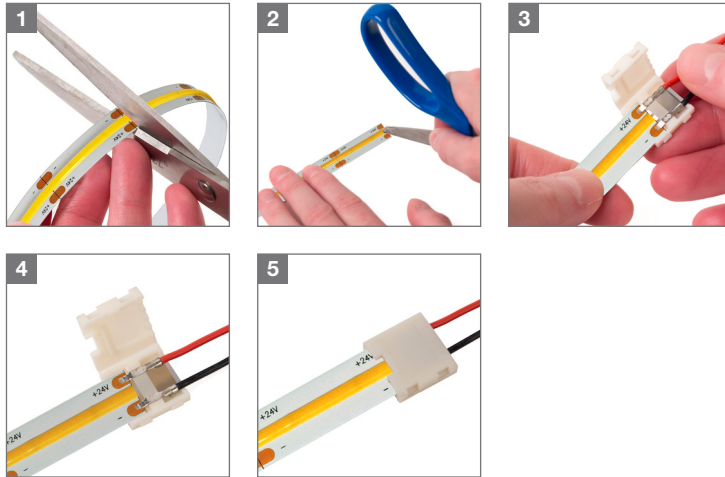
USING THE SNAP & LIGHT SOLDERLESS CONNECTORS:

Cutting and reconnecting our Lazer Strip is easy. All you need is a pair of scissors or any sharp device that will allow you to make a clean cut.

1. Cut the middle of joining contacts

2. Remove the protective coating from the contacts

3. Place the Lazer Strip end under the plastic guide and push it under the snap contacts

4. Close the cover

5. Snap the cover to secure in place

Power Connector

0.6"
(1.5cm)   3", 6", 12", 36", 96", or 144"   0.6"
(1.5cm)
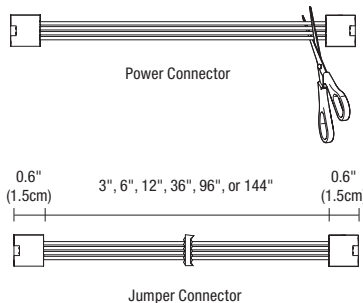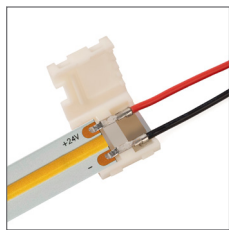
Jumper Connector

24VDC SOLDERLESS SNAP & LIGHT POWER/JUMPER CONNECTOR

Join 2 cut sections of LED Lazer Strip end to end. Power connector is required. Use as a jumper connector is optional. To use as a power connector cut and strip the wires.
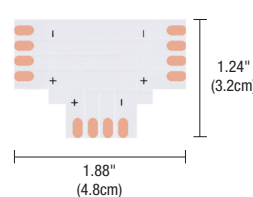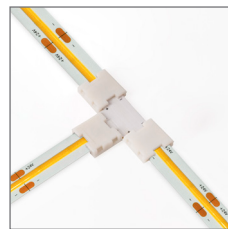
Product	Type	Size
LS	**SLC**	**12IN**
LS Lazer Strip	SLC Snap & Light Jumper or Power Connectors	**3IN** 3 inches **36IN** 36 inches **6IN** 6 inches **96IN** 96 inches **12IN** 12 inches **144IN** 144 inches

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1.26"
(3.2cm)

1.26"
(3.2cm)
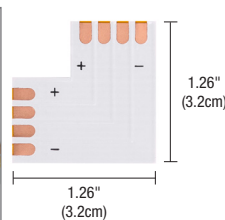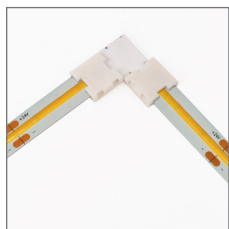
SOLDERLESS SNAP & LIGHT L-CONNECTOR

Join and conduct power to 2 sections of LED Lazer Strip in an L-shape.

Product	Type
LS	**SLL**
LS Lazer Strip	SLL Snap & Light L-Connector

1.24"
(3.2cm)

1.88"
(4.8cm)

SOLDERLESS SNAP & LIGHT T-CONNECTOR

Join and conduct power to 3 sections of LED Lazer Strip in a T-shape.

Product	Type
LS	**SLT**
LS Lazer Strip	SLT Snap & Light T-Connector

1.85"
(4.8cm)

1.85"
(4.8cm)
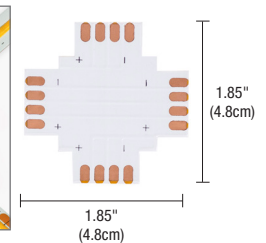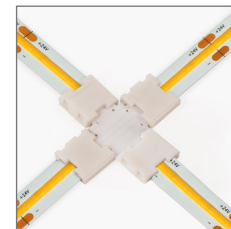
SOLDERLESS SNAP & LIGHT X-CONNECTOR

Join and conduct power to 4 sections of LED Lazer Strip in an X-shape.

Product	Type
LS	**SLX**
LS Lazer Strip	SLX Snap & Light X-Connector

PROJECT		FIXTURE TYPE		DATE	

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LAZER STRIP ACCESSORIES FOR STATIC WHITE & MONOCHROMATIC COLOR
SNAP & LIGHT SOLDERLESS CONNECTORS

INDOOR ELECTRONIC LOW VOLTAGE DIMMING (ELV) SAMPLE WIRING DIAGRAM: The example below is using a PureEdge Class 2, 24VDC Universal Power Supply

INPUT 120VAC
N
LINE
GND

N
LOAD

B

+24V
-24V

C

D

C

A

A. ELV Dimmer
B. Uni Power Supply
C. Snap & Light Power/Jumper Connector
D. Lazer Strip

ONLY TRIM
AT CUT LINES

D

C

D

-24V
+24V

C

+24V
-24V

D

Strip does **NOT** bend 90°

A. ELV Dimmer

B. Universal Power Supply

C. 24VDC Solderless Snap & Light Power/Jumper Connector

D. 24VDC LED Strip

E. Solderless Snap & Light L-Connector

**F.** Solderless Snap & Light Straight Joiner
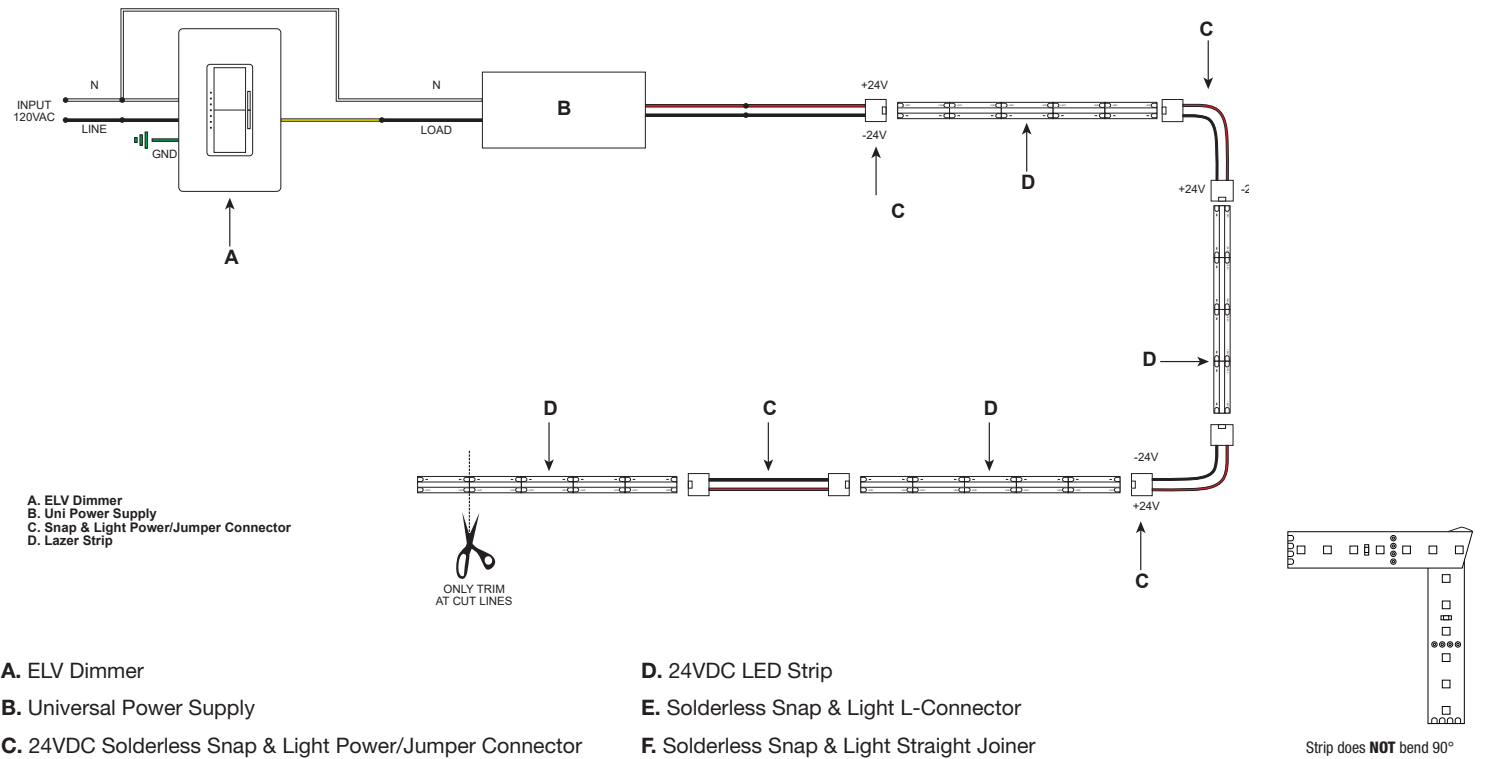
PROJECT		FIXTURE TYPE		DATE	

TM-30-15 DATA: The data below is for LS3 and LS5 bare Lazer Strips. 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: 90.1 | Rg: 99.9
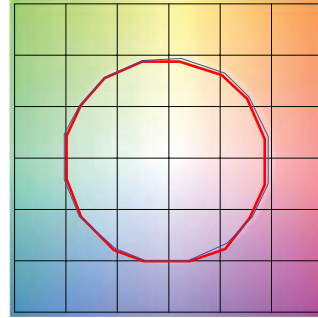Color Vector Graphic
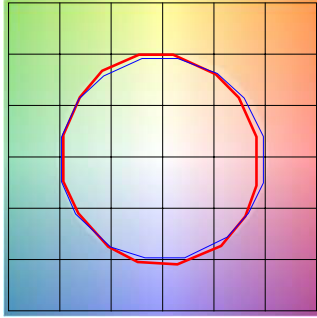
Test | Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.8	-5.8%	-0.5%
2	88.6	-4.7%	3.9%
3	85.2	-1.1%	6.5%
4	92.1	1.4%	3.8%
5	94.6	3.0%	3.2%
6	92.7	4.5%	0.4%
7	91.3	0.7%	-4.7%
8	95.7	0.3%	-2.3%
9	94.8	-2.2%	-0.8%
10	93.1	-2.5%	2.2%
11	91.7	1.0%	4.7%
12	88.4	3.0%	0.4%
13	87.6	4.3%	-9.4%
14	81.0	3.1%	-11.6%
15	89.8	-0.8%	-6.7%
16	83.9	-4.9%	-9.7%

2700K | Rf: 92.4 | Rg: 98.0
Color Vector Graphic

Test | Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.6	-4.5%	-0.4%
2	92.6	-3.4%	1.4%
3	91.9	-2.2%	3.0%
4	94.6	-2.3%	1.2%
5	95.3	-1.1%	2.6%
6	96.9	0.4%	0.9%
7	94.7	-2.2%	-1.1%
8	97.9	-0.5%	0.7%
9	95.0	-2.1%	1.4%
10	91.7	-1.5%	4.4%
11	90.2	0.4%	6.4%
12	90.5	3.6%	0.5%
13	92.4	2.0%	-4.6%
14	88.7	2.9%	-7.5%
15	92.4	-1.6%	-3.4%
16	86.4	-2.6%	-9.0%

3000K | Rf: 90.7 | Rg: 99.7
Color Vector Graphic
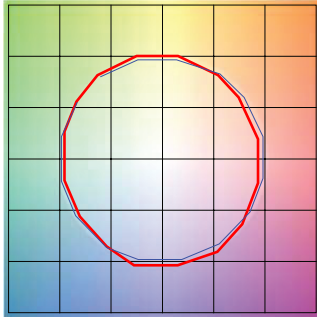
Test | Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	89.6	-5.1%	-0.6%
2	90.8	-3.7%	2.9%
3	87.7	-1.3%	5.6%
4	92.7	-0.1%	3.1%
5	94.3	1.7%	3.1%
6	94.2	3.0%	-0.3%
7	92.6	-0.7%	-3.4%
8	97.1	-0.3%	-1.4%
9	94.6	-2.4%	1.0%
10	90.4	-2.1%	4.8%
11	87.6	0.5%	7.9%
12	88.6	4.7%	2.0%
13	91.4	3.6%	-4.1%
14	86.8	4.6%	-8.4%
15	91.0	-0.7%	-4.9%
16	84.1	-2.5%	-11.0%

3500K | Rf: 92.5 | Rg: 101.2
Color Vector Graphic
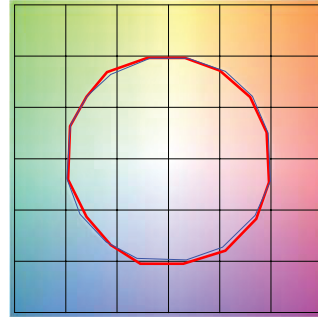
Test | Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	94.2	-2.3%	-0.8%
2	95.6	-1.8%	0.9%
3	92.1	-0.7%	3.3%
4	93.8	-0.5%	2.5%
5	93.2	-0.6%	2.3%
6	95.0	2.6%	0.5%
7	96.2	-0.2%	-1.0%
8	97.3	-0.1%	-1.4%
9	95.1	-1.7%	1.9%
10	89.5	-2.4%	5.7%
11	85.0	1.2%	8.4%
12	89.8	4.8%	4.1%
13	94.8	3.0%	-0.1%
14	90.9	5.9%	-3.3%
15	91.8	2.1%	-4.3%
16	89.1	1.1%	-6.2%

PROJECT		FIXTURE TYPE		DATE	

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