

**Description:**

Surface Mount Light Channel with 45 degree extrusion features 24 volt Soft Strip inside a slim, paintable aluminum extrusion. LC45 uses SS2P with warm-white, 80+CRI LEDs for excellent color-rendering. LC45C uses SS2C with 85+, 92+, or 95+CRI LEDs. The white diffuser lens projects a clean line of light and eliminates LED dots, while the clear lens provides maximum light levels. Several color temperature options are available, including 24K – 57K (ELV/010) and Warm Dim (ELV). Sold in 12 inch increments up to 120 inches. May be ordered in 3, 5, 8 or 10 inch increments. Fixtures include mounting clips every 2 feet. The 8 foot cables on each end can be hard wired together linking segments for a maximum of 20 feet for 2D and 3D color temperatures, 40 feet for all other color temperatures. System is powered by a dimmable remote power supply. Fixtures include a 5 year warranty.

**Finishes:**

Satin Aluminum, Antique Bronze and White. Custom finishes available

**Applications:**

Indoor and Wet Location - Task lighting, under/above cabinet, cove and retail. ETL listed for wet location.

**Lamp:**

Version	Watts per Foot	Lumens per Watt	Lumens per Foot	80+CRI 30K	85+CRI 24K, 35K, 40K, 57K	92+CRI 27D, 30D	95+CRI 27K, 30K	Lamp Life Hours
LC45	2.3	37	115	●				50,000
LC45C	2.5	43	126		●		●	50,000
LC45C (Warm Dim)	5	50	244			●		50,000

Lumen values are based on the 3000K LED test.

**DWW: Warm White with 61° White Diffuser Lens**

Distance	Beam	Foot Candles
12in	15"	58 FC
18in	21"	34 FC
24in	29"	24 FC
36in	42"	13 FC

**CWW: Warm White with 26° Clear Diffuser Lens**

Distance	Beam	Foot Candles
12in	7"	115 FC
18in	10"	72 FC
24in	13"	50 FC
36in	16"	28 FC

**24VDC 0-10V Power Supply (Sold Separately, Not used with Warm Dim):**

- PSB-96W-010-24VDC** 120-277VAC input, 96 watt output
- PSB-2X96W-010-24VDC** 120-277VAC input, 2x96 watt output
- PSB-3x96W-010-24VDC** 120-277VAC input, 3x96 watt output
- PSB-4x96W-010-24VDC** 120-277VAC input, 4x96 watt output

**24VDC ELV Power Supply (Sold Separately):**

- PSB-60W-ELV-24VDC** 120VAC input, 60 watt output
- PSB-100W-ELV-24VDC** 120VAC input, 96 watt output
- PSB-2X100W-ELV-24VDC** 120VAC input, 2x96 watt output
- PSB-3x100W-ELV-24VDC** 120VAC input, 3x96 watt output
- PSB-4x100W-ELV-24VDC** 120VAC input, 4x96 watt output

**Dimming:**

010 power supplies use 0-10V dimmer: Philips Sunrise SR1200ZTUNV.  
 ELV power supplies use ELV dimmer: Legrand, Adorne ADTP703TU;  
 Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

**Joining Connectors:**

Joining Connectors, CON-2W, are included with 45° Light Channel

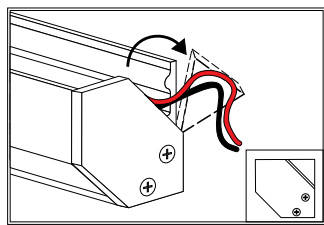
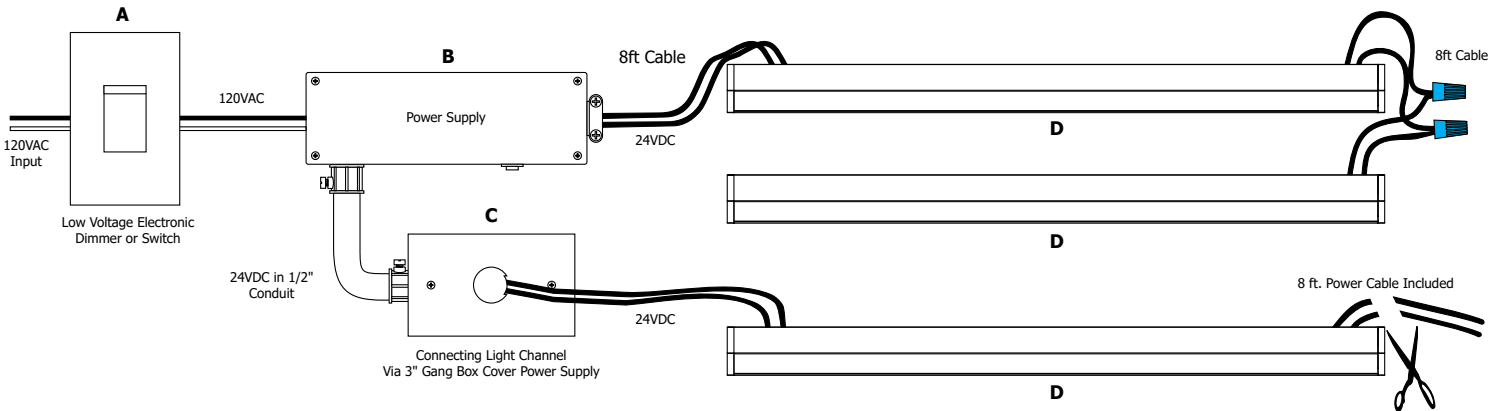
Product	Voltage	Nominal Size	Color Temperature	Finish	Options
<b>LC45</b> LC45 Light Channel Surface Mount 45° LC45C Light Channel Surface Mount Commercial 45°	<b>24V</b> 24V 24 Volt DC	<b>60IN</b> 12-120 Order in various increments up to 120 inches.* *See chart on page 4 of spec sheet for exact dimensions.	<b>D WW</b> D Diffuser Lens C Clear Lens AW 2400K Amber White (LC45C only) VW 2700K Very Warm White (LC45C only) WW 3000K Warm White NW 3500K Neutral White (LC45C only) CW 4000K Cool White (LC45C only) DW 5700K Daylight White (LC45C only) 2D 2700K Warm Dim (LC45C only, 5W/ft) 3D 3000K Warm Dim (LC45C only, 5W/ft)	<b>SA</b> SA Satin Aluminum BZ Antique Bronze WH White WH Custom Finishes Available	Standard (leave blank) W Wet Location

PROJECT: \_\_\_\_\_ FIXTURE TYPE: \_\_\_\_\_ DATE: \_\_\_\_\_ **EDGE LIGHTING**

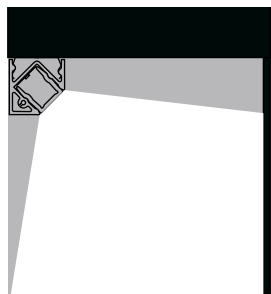
**Application:** Electronic low-voltage dimming for 45° Light Channel

**Power Supply:** 120VAC input, 24VDC 60 watt output PSB-60W-ELV-24VDC

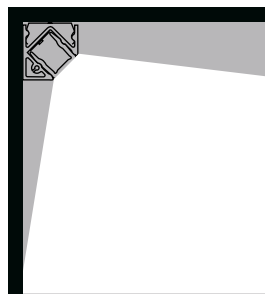
**Dimming:** Dimmable with low voltage electronic dimmer using power supply above. See power supply spec sheet for additional details. Lutron: Diva DVELV-300P; Skylark SELV-300P; Maestro MAELV-600 dimmers are recommended



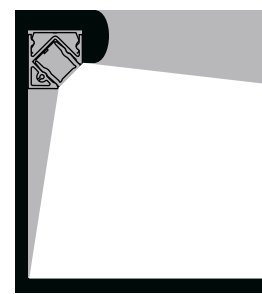
- A. Lutron Dimmers  
Diva **DVELV-300P** or Skylark **SELV-300P**
- B. 60W 24VDC Power Supply **PSB-60W-ELV-24VDC**
- C. 3" Rectangle Canopy Cover **3RE-WH**
- D. Surface Mount Light Channel 45° 12"-120" **LC45-24V-\_-SA**



Below Cabinet



Inside Cabinet



Step Light

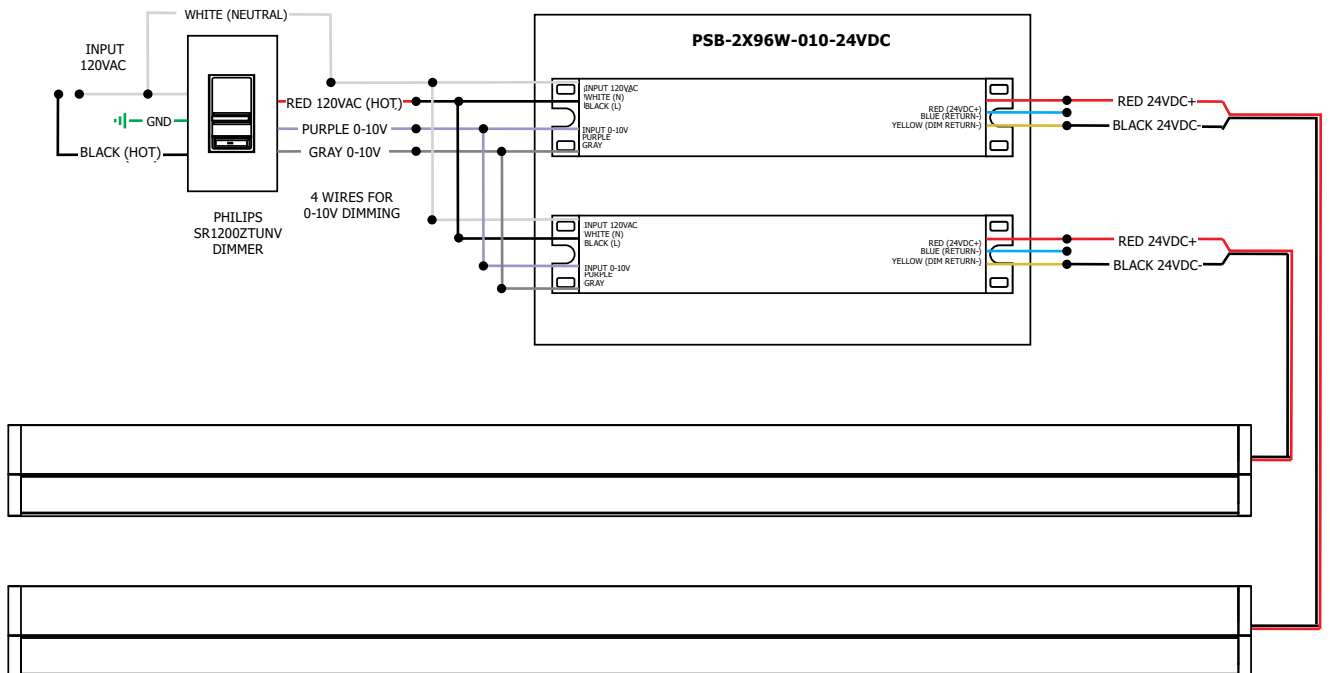
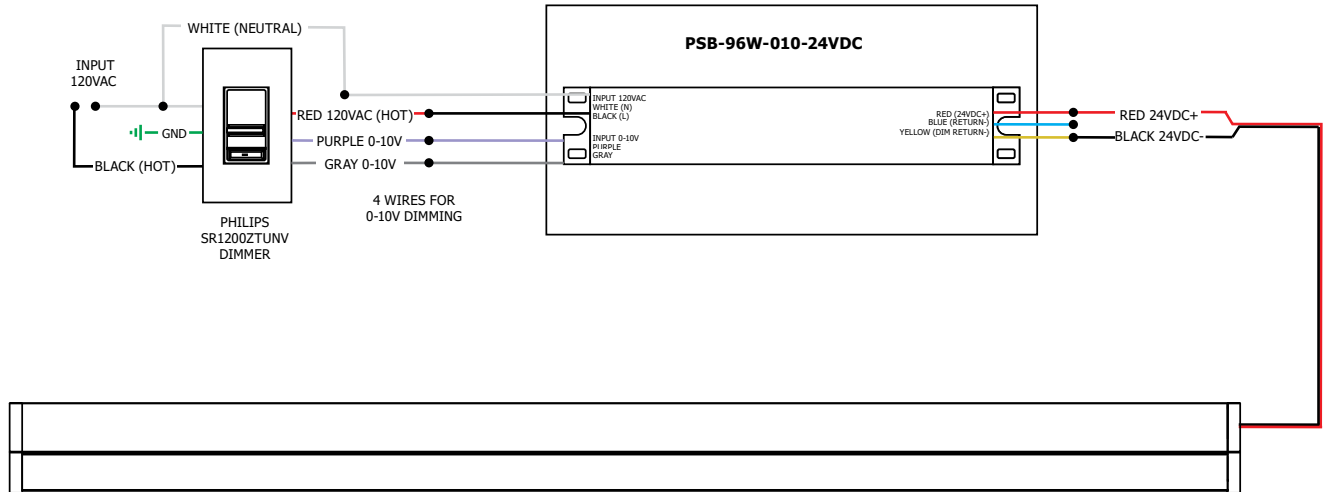
PROJECT:

FIXTURE  
TYPE:

DATE:



- Application:** 0-10V dimming for 45° Light Channel (Not to be used with Warm Dim)
- Power Supply:** Class 2, 24VDC output: 120-277VAC input, 96 watt output PSB-96W-010-24VDC; 120-277VAC input, 192 watt output PSB-2X96W-010-24VDC
- Dimming:** Dimmable with 0-10V dimmer using power supply above. See power supply spec sheet for additional details. Philips Sunrise SR1200ZTUNV, 0-10V dimmer recommended



45° LIGHT CHANNEL ACTUAL LENGTH

AW, VW, WW, NW, CW, DW

2D, 3D

ORDERING CODE (NOMINAL SIZE)	LENGTH (INCHES)
3IN	3.25
5IN	5.65
8IN	8.05
10IN	10.45
12IN	12.85
15IN	15.25
17IN	17.65
20IN	20.05
22IN	22.45
24IN	24.85
27IN	27.25
29IN	29.65
32IN	32.05
34IN	34.45
36IN	36.85
39IN	39.25
41IN	41.65
44IN	44.05
46IN	46.45
48IN	48.85
51IN	51.25
53IN	53.65
56IN	56.05
58IN	58.45
60IN	60.85

ORDERING CODE (NOMINAL SIZE)	LENGTH (INCHES)
63IN	63.25
65IN	65.65
68IN	68.05
70IN	70.45
72IN	72.85
75IN	75.25
77IN	77.65
80IN	80.05
82IN	82.45
84IN	84.85
87IN	87.25
89IN	89.65
92IN	92.05
94IN	94.45
96IN	96.85
99IN	99.25
101IN	101.65
104IN	104.05
106IN	106.45
108IN	108.85
111IN	111.25
113IN	113.65
116IN	116.05
118IN	118.45
120IN	120.85

ORDERING CODE (NOMINAL SIZE)	LENGTH (INCHES)
3IN	3.85
6IN	6.85
9IN	9.85
12IN	12.85
15IN	15.85
18IN	18.85
21IN	21.85
24IN	24.85
27IN	27.85
30IN	30.85
33IN	33.85
36IN	36.85
39IN	39.85
42IN	42.85
45IN	45.85
48IN	48.85
51IN	51.85
54IN	54.85
57IN	57.85
60IN	60.85
63IN	63.85
66IN	66.85
69IN	69.85
72IN	72.85
75IN	75.85

ORDERING CODE (NOMINAL SIZE)	LENGTH (INCHES)
78IN	78.85
81IN	81.85
84IN	84.85
87IN	87.85
90IN	90.85
93IN	93.85
96IN	96.85
99IN	99.85
102IN	102.85
105IN	105.85
108IN	108.85
111IN	111.85
114IN	114.85
117IN	117.85
120IN	120.85

PROJECT:

FIXTURE TYPE:

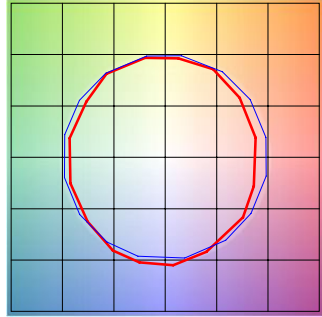
DATE:



**TM-30-15 DATA:** The data below is for SS2C and SS5C bare LED Soft 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: 83.9 | Rg: 94.9

COLOR VECTOR GRAPHIC

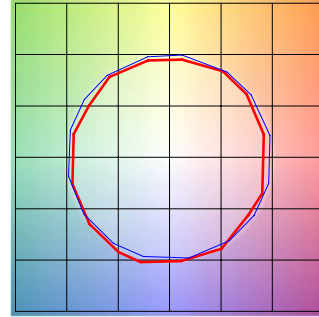


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	77.6	-10.0%	1.8%
2	80.7	-7.5%	7.0%
3	79.5	-2.9%	8.9%
4	90.5	-3.1%	2.4%
5	93.9	-1.3%	1.9%
6	91.9	-0.9%	-0.2%
7	87.6	-6.3%	-2.7%
8	90.5	-5.4%	2.7%
9	83.8	-4.7%	6.5%
10	81.2	-2.5%	10.0%
11	83.3	3.9%	9.4%
12	86.4	5.6%	2.6%
13	86.2	4.5%	-12.4%
14	64.3	-1.0%	-21.9%
15	85.1	-4.4%	-7.5%
16	75.0	-9.9%	-12.0%

**2700K** | Rf: 87.7 | Rg: 96.1

COLOR VECTOR GRAPHIC

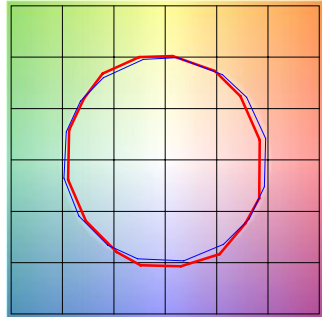


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.4	-5.6%	2.3%
2	89.7	-3.3%	3.1%
3	90.5	-1.5%	3.8%
4	90.0	-4.3%	1.1%
5	92.9	-3.7%	0.2%
6	93.5	-2.5%	-0.8%
7	86.3	-7.2%	2.5%
8	90.7	-4.0%	3.2%
9	85.2	-2.4%	8.1%
10	81.7	0.9%	10.8%
11	85.4	4.5%	8.9%
12	88.7	5.7%	-1.4%
13	88.3	1.3%	-7.9%
14	85.1	2.4%	-10.4%
15	88.1	-4.8%	-2.7%
16	81.7	-4.3%	-10.9%

**3000K** | Rf: 88.1 | Rg: 99.7

COLOR VECTOR GRAPHIC

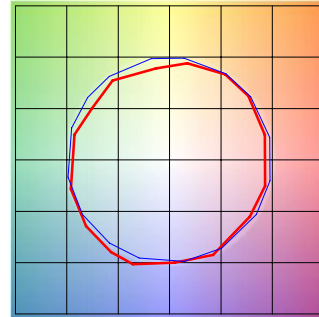


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.7	-5.9%	-0.3%
2	87.9	-4.4%	4.3%
3	82.9	-1.2%	7.9%
4	89.9	0.6%	4.7%
5	92.7	3.0%	3.5%
6	92.7	3.6%	-1.7%
7	90.8	-1.3%	-4.4%
8	93.7	-2.5%	-2.2%
9	91.7	-3.7%	2.3%
10	85.5	-2.8%	7.8%
11	83.3	0.7%	11.0%
12	86.4	5.5%	3.8%
13	90.6	4.6%	-3.6%
14	85.6	5.9%	-8.4%
15	89.5	-0.6%	-5.7%
16	82.6	-2.7%	-12.0%

**3500K** | Rf: 86.1 | Rg: 95.5

COLOR VECTOR GRAPHIC

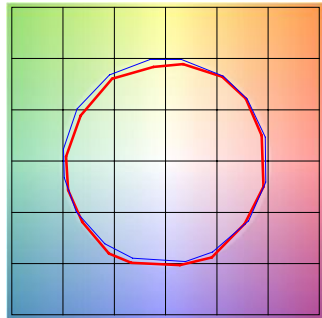


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.6	-4.2%	3.4%
2	91.7	-1.4%	1.8%
3	94.9	-0.7%	0.4%
4	87.9	-4.5%	-4.1%
5	85.9	-10.3%	-2.7%
6	89.8	-5.2%	-0.4%
7	79.6	-9.5%	6.5%
8	87.6	-4.0%	5.7%
9	81.4	-0.5%	11.8%
10	78.3	3.3%	11.4%
11	85.7	6.3%	6.1%
12	86.3	7.1%	-4.6%
13	86.1	-0.7%	-9.6%
14	85.1	0.8%	-10.4%
15	83.4	-4.1%	-5.3%
16	82.5	-3.6%	-5.7%

**4000K** | Rf: 87.6 | Rg: 96.8

COLOR VECTOR GRAPHIC

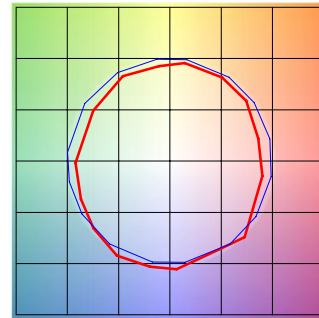


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	89.0	-3.1%	2.1%
2	93.2	-0.9%	1.3%
3	94.3	-1.1%	0.7%
4	89.5	-4.0%	-2.3%
5	87.6	-7.8%	-1.8%
6	92.2	-4.6%	0.1%
7	87.4	-6.6%	3.6%
8	85.7	-3.8%	7.0%
9	81.5	-1.3%	12.4%
10	80.0	0.9%	11.4%
11	83.3	5.9%	8.7%
12	89.7	4.8%	-0.3%
13	88.5	2.4%	-6.3%
14	92.7	4.0%	-3.8%
15	86.1	-1.6%	-4.5%
16	85.0	-1.4%	-5.0%

**5700K** | Rf: 80.3 | Rg: 91.5

COLOR VECTOR GRAPHIC



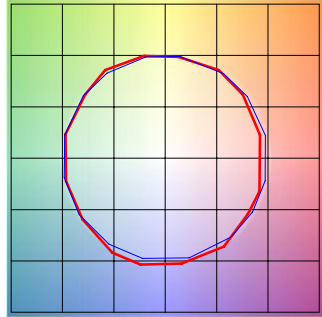
■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	73.8	-11.2%	2.6%
2	83.7	-5.5%	5.8%
3	84.2	-4.0%	5.5%
4	85.8	-3.5%	1.3%
5	85.3	-7.1%	0.6%
6	89.2	-5.8%	-2.2%
7	81.5	-10.7%	1.2%
8	75.7	-9.7%	8.5%
9	74.9	-7.8%	18.8%
10	67.8	-1.6%	18.0%
11	76.1	5.5%	12.0%
12	90.8	4.9%	-1.6%
13	83.6	5.0%	-9.5%
14	81.7	-1.2%	-10.0%
15	69.0	2.0%	-22.8%
16	83.2	-8.5%	-1.0%

**TM-30-15 DATA:** The data below is for SS2C and SS5C bare LED Soft 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.

**2700D** | Rf: 89.5 | Rg: 100.8

COLOR VECTOR GRAPHIC

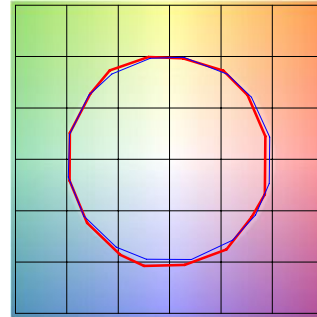


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.8	-5.1%	1.4%
2	89.8	-2.7%	4.1%
3	87.2	0.3%	5.9%
4	92.3	-0.9%	1.0%
5	93.3	1.5%	1.7%
6	92.4	3.6%	-0.2%
7	92.2	-0.9%	-2.4%
8	96.7	-0.4%	-1.1%
9	92.3	-1.2%	3.7%
10	88.9	-0.0%	6.1%
11	86.4	5.1%	7.4%
12	88.2	6.3%	-0.9%
13	87.2	3.8%	-8.1%
14	84.2	3.8%	-11.0%
15	89.8	-2.6%	-4.3%
16	82.7	-3.4%	-11.1%

**3000D** | Rf: 89.8 | Rg: 101.4

COLOR VECTOR GRAPHIC

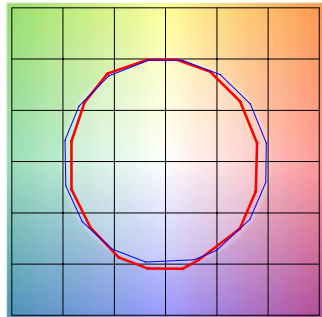


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.2	-4.2%	1.5%
2	90.9	-2.0%	3.7%
3	87.9	0.8%	5.5%
4	92.1	-0.9%	0.6%
5	93.0	1.5%	1.6%
6	92.2	3.9%	-0.2%
7	92.1	-0.3%	-2.0%
8	96.7	0.0%	-1.2%
9	92.5	-0.6%	3.7%
10	88.3	1.1%	7.0%
11	87.2	4.1%	7.4%
12	87.2	6.7%	-1.0%
13	88.2	3.8%	-7.2%
14	85.3	4.3%	-9.9%
15	90.9	-2.2%	-3.6%
16	83.4	-2.2%	-11.2%

**2000K only (2K4K)** | Rf: 84.3 | Rg: 96.9

COLOR VECTOR GRAPHIC

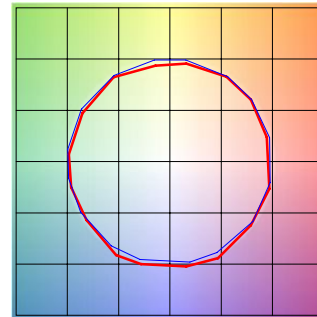


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	80.3	-8.9%	1.7%
2	79.7	-7.0%	7.8%
3	78.9	-2.9%	10.0%
4	89.5	-0.5%	5.1%
5	94.4	0.7%	1.7%
6	92.1	2.4%	-0.3%
7	89.4	-2.4%	-5.9%
8	89.7	-6.4%	-0.2%
9	86.0	-4.9%	4.6%
10	81.8	-3.4%	9.3%
11	83.1	3.3%	9.7%
12	85.8	5.6%	3.3%
13	85.6	6.2%	-12.8%
14	61.7	-1.9%	-19.0%
15	79.7	-3.3%	-12.9%
16	78.1	-7.9%	-10.6%

**4000K only (2K4K)** | Rf: 89.6 | Rg: 99.1

COLOR VECTOR GRAPHIC

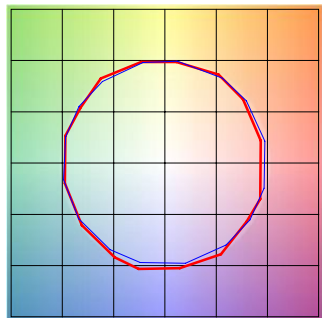


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.3	-2.5%	1.0%
2	95.3	-0.5%	0.5%
3	94.3	-0.7%	1.1%
4	91.1	-3.4%	-1.1%
5	89.5	-5.6%	0.0%
6	94.6	-1.4%	1.3%
7	93.2	-3.0%	2.6%
8	91.3	-1.8%	4.6%
9	86.5	-0.9%	9.1%
10	83.3	-0.5%	9.5%
11	83.3	4.9%	9.0%
12	89.7	4.1%	1.7%
13	90.1	3.6%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	86.6	0.4%	-6.1%

**2K4K (3000K)** | Rf: 90.2 | Rg: 101.4

COLOR VECTOR GRAPHIC



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.9	-3.8%	1.3%
2	91.7	-1.9%	3.3%
3	88.7	0.7%	5.1%
4	92.4	-1.0%	0.7%
5	92.9	0.9%	1.7%
6	93.1	3.3%	-0.6%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	3.6%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	87.6	6.5%	-0.3%
13	89.3	3.6%	-6.3%
14	86.1	4.5%	-9.1%
15	91.6	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%