VERGE CORNER 24VDC
PLASTER-IN LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

PURE EDGE LIGHTING

Drywall

Drywall with Plaster & Paint

4" (10.2cm)
0.63" (1.6cm)
0.75" (1.9cm)
0.88" (2.2cm)
1.75" (4.4cm)
4" (10.2cm)
4" (10.2cm)
0.88" (2.2cm)
1.75" (4.4cm)
0.63" (1.6cm)
0.75" (1.9cm)
1.75" (4.4cm)
0.88" (2.2cm)
60" - 480" (152.4cm - 1219.2cm)

DESCRIPTION

Verge Corner, a slim, plaster-in aluminum channel with a 4" paintable aluminum backer plate, highlights the corner of two drywall surfaces while emitting ambient illumination. The 24VDC linear LED system mounts directly to studs without joist modification and plasters into 5/8" or thicker drywall. Verge Corner is sold in 5' increments up to 40' and field cuttable to any length. Several color temperature options are available, including 2200K-5700K (ELV/010), Warm Dim (ELV), Tunable White (ELV/010/DMX), RGB and RGB+W (DMX). High CRI commercial-grade White or Dynamic Color Changing LED Soft Strip projects a clean line of light. Coordinate installation with electrician and drywall contractors. Includes a 5 year pro-rated warranty.

DESIGN NOTE

Verge Corner can be installed on multiple surfaces that form inside corners, as well as in coves, windows or skylights. Ambient and harmonious, the plaster-in LED system blends into 5/8" thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed flexibility that transforms interiors into thoughtful, unique works of art.

APPLICATIONS

Indoor damp or dry locations only. Wall or Ceiling mount used in Corners, Coves, Windows, Skylights for Hospitality, Retail, and Residential

LAMP

The average LED Life is 50,000 hours.

WATTS PER FOOT	LUMENS PER WATT	LUMENS PER FOOT	85+CRI 22K, 35K, 40K, 57K	90+CRI 2K4K	92+CRI 27D, 30D	95+CRI 24K, 27K, 30K	RGB	RGB+W
5WDC (2X2.5WDC)	57	372	•			•		
6WDC (2X2.6WDC)	N/A	N/A					•	
10WDC (2X4.4WDC)	N/A	N/A	•	•	•	•		
12WDC (2X6.3WDC)	N/A	N/A						•

Lumen values are based on the 3000K LED test.

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

• Electronic Low Voltage Dimming (ELV)†

• 0-10 Volt Dimming (0-10V)

• Dynamic Color Changing (DMX)

  *In-Wall Mounting Kits available for select power supplies

  †With N-Lite Dimming Do Not use ELV power supply's, use only 0-10 volt or Uni drivers power supplies

INCLUDED COMPONENTS

(2) Junction Boxes, Adjustable Mounting Bars, (2) Backer Plates, (2) Verge Corner Channels, Drywall Screws, (2) LED Soft Strips, and (2) Lenses

System	Watts Per Foot	Length in Feet	Color Temperature
VGCO	**5WDC**	**10FT**	**27K**

VGCO Verge Corner	**5WDC** 2x2.5 Watts	**5FT** 5'	**22K** 2200K Candle White
	6WDC 2x3 Watts (35 ft Max)	**10FT** 10'	**24K** 2400K Very Warm White
	10WDC 2x5 Watts (20 ft Max)	**15FT** 15'	**27K** 2700K Incandescent White
	12WDC 2x6 Watts (15 ft Max)	**20FT** 20'	**27D** 2700K Warm Dim (10WDC only)
		25FT 25'	**30K** 3000K Warm White
		30FT 30'	**30D** 3000K Warm Dim (10WDC Only)
		35FT 35'	**35K** 3500K Neutral White
		40FT 40'	**40K** 4000K Cool White
			57K 5700K Daylight White
			2K4K 2000K-4000K Tunable White (10WDC only)
			RGB Red, Green, and Blue (6WDC only)
			RGBW Red, Green, Blue, and 2000K White (12WDC only)

For custom design and layout assistance, send drawings to design@PureEdgeLighting.com

PROJECT		FIXTURE TYPE		DATE	

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PURE EDGE
LIGHTING

INCLUDED COMPONENTS
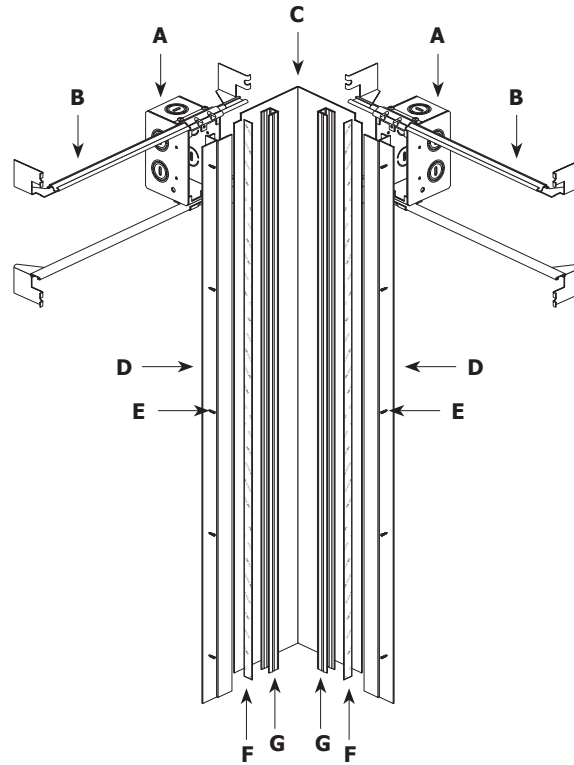
A. JUNCTION BOX

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 Backer Plate and required at the beginning of each run.

B. ADJUSTABLE MOUNTING BARS

Provide flexibility for mounting in a variety of spaces. Verge Corner includes two sets of mounting hardware.

C. BACKER PLATE

4" paintable aluminum plate that conceals Junction Box and reflects light. Verge Corner includes two backer plates.

D. VERGE CHANNEL

5/8" deep extrusion houses a single row of LED Soft Strip. Verge Corner includes two channels.
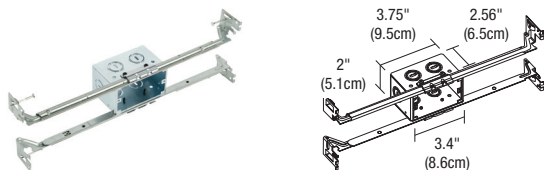
E. DRYWALL SCREWS

Secures channel to drywall and stud.

F. LED SOFT STRIP

Commercial-grade White or Dynamic Color Changing LED Soft Strip. See lamp data on for additional details.

G. LENS

0.6" wide diffuser lens projects a clean line of light without LED dots. Verge Corner includes two lenses.

3.75" (9.5cm)   2.56" (6.5cm)
2" (5.1cm)
3.4" (8.6cm)

JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with Verge Wall and two Junction Boxes are included with Verge Corner. Order additional Junction Box(es) separately to rough-in electrical wiring before drywall installation. Quick shipment available.

System	Size	Component
VG	**1RE**	**JBOX**
VG Verge	1RE 1" Rectangle	JBOX Juncation Box

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INSTALLATION
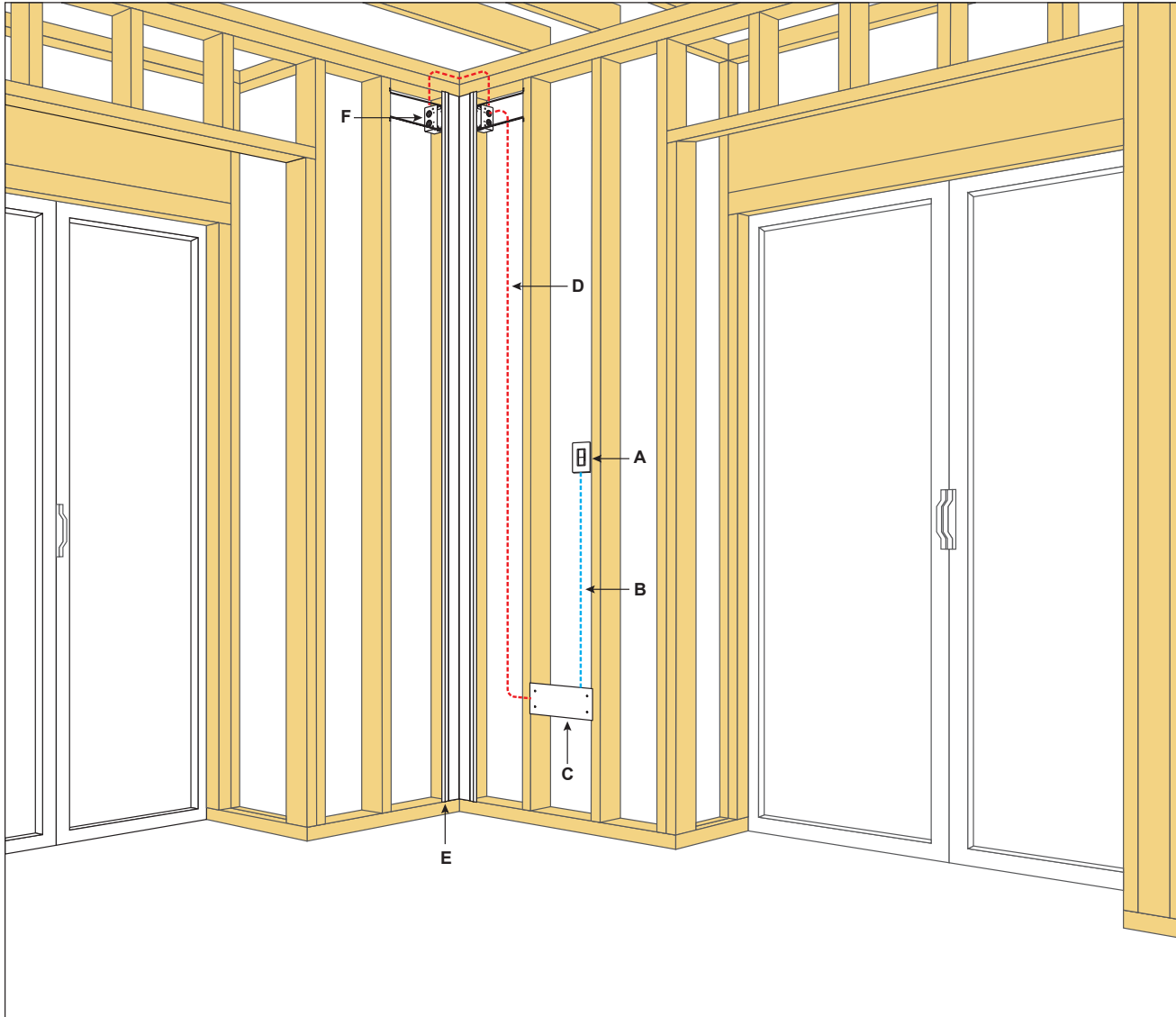
A. DIMMER OR SWITCH

B. 120VAC WIRING

C. 120V/24VDC REMOTE POWER SUPPLY FOR IN-WALL MOUNTING KIT

D. 24VDC, CLASS 2 WIRING

E. VERGE CORNER CHANNEL

F. JUNCTION BOX
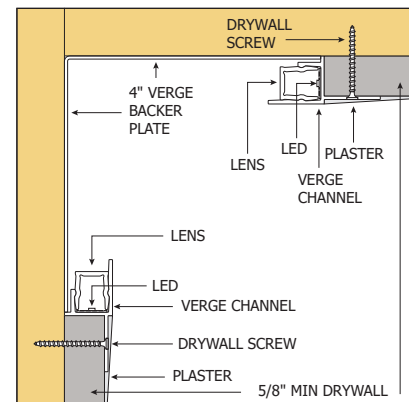
DRYWALL SCREW

4" VERGE BACKER PLATE

LENS

LED

PLASTER

VERGE CHANNEL

LENS

LED

VERGE CHANNEL

DRYWALL SCREW

PLASTER

5/8" MIN DRYWALL

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PURE EDGE LIGHTING

APPLICATION	0-10V dimming for Verge Corner
POWER SUPPLY	PSB-96W-010-24VDC (24VDC 96W output)
DIMMING	Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-LF
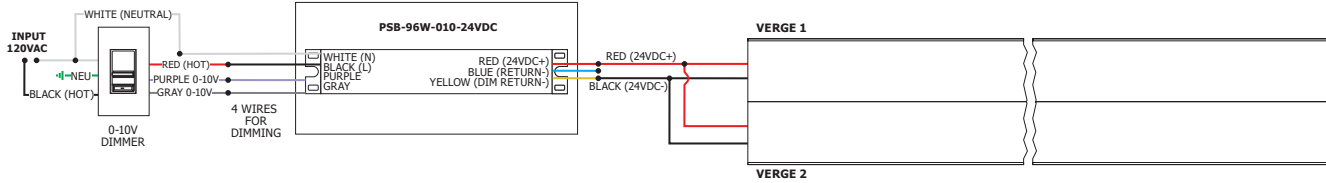
2 X 2.5 WATTS PER FOOT - 22K, 24K, 27K, 27D, 30K, 30D, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 3	11	2 x 27	21	2 x 51	31	2 x 75
2	2 x 5	12	2 x 29	22	2 x 54	32	2 x 78
3	2 x 8	13	2 x 32	23	2 x 56	33	2 x 80
4	2 x 10	14	2 x 34	24	2 x 58	34	2 x 82
5	2 x 13	15	2 x 37	25	2 x 61	35	2 x 85
6	2 x 15	16	2 x 39	26	2 x 63	36	2 x 87
7	2 x 17	17	2 x 41	27	2 x 66	37	2 x 90
8	2 x 20	18	2 x 44	28	2 x 68	38	2 x 92
9	2 x 22	19	2 x 46	29	2 x 70	39	2 x 94
10	2 x 25	20	2 x 48	30	2 x 73	40	2 x 96

2 X 5 WATTS PER FOOT - 22K, 24K, 27K, 30K, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 5	6	2 x 29	11	2 x 53	16	2 x 77
2	2 x 10	7	2 x 34	12	2 x 58	17	2 x 82
3	2 x 14	8	2 x 38	13	2 x 63	18	2 x 87
4	2 x 19	9	2 x 43	14	2 x 67	19	2 x 91
5	2 x 24	10	2 x 48	15	2 x 72	20	2 x 96

2 X 3 WATTS PER FOOT - RGB LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 3	10	2 x 26	19	2 x 50	28	2 x 73
2	2 x 6	11	2 x 29	20	2 x 52	29	2 x 76
3	2 x 8	12	2 x 32	21	2 x 55	30	2 x 78
4	2 x 11	13	2 x 34	22	2 x 58	31	2 x 81
5	2 x 13	14	2 x 37	23	2 x 60	32	2 x 84
6	2 x 16	15	2 x 39	24	2 x 63	33	2 x 86
7	2 x 19	16	2 x 42	25	2 x 65	34	2 x 89
8	2 x 21	17	2 x 45	26	2 x 68	35	2 x 91
9	2 x 24	18	2 x 47	27	2 x 71		

2 X 6 WATTS PER FOOT - RGB+W LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	2 x 6	5	2 x 30	9	2 x 54	13	2 x 78
2	2 x 12	6	2 x 36	10	2 x 60	14	2 x 84
3	2 x 18	7	2 x 42	11	2 x 66	15	2 x 90
4	2 x 24	8	2 x 48	12	2 x 72	16	2 x 96

2 X 5 WATTS PER FOOT - 2K4K TUNABLE WHITE LEDS

LENGTH IN FEET	2K WATTS	4K WATTS	LENGTH IN FEET	2K WATTS	4K WATTS	LENGTH IN FEET	2K WATTS	4K WATTS
1	2 x 3	2 x 3	8	2 x 20	2 x 20	15	2 x 36	2 x 36
2	2 x 5	2 x 5	9	2 x 22	2 x 22	16	2 x 39	2 x 39
3	2 x 8	2 x 8	10	2 x 24	2 x 24	17	2 x 41	2 x 41
4	2 x 10	2 x 10	11	2 x 27	2 x 27	18	2 x 44	2 x 44
5	2 x 12	2 x 12	12	2 x 29	2 x 29	19	2 x 46	2 x 46
6	2 x 15	2 x 15	13	2 x 32	2 x 32	20	2 x 48	2 x 48
7	2 x 17	2 x 17	14	2 x 34	2 x 34			

PROJECT		FIXTURE TYPE		DATE	

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TM-30-15 DATA

The data below is for SS5C and SS10C 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.
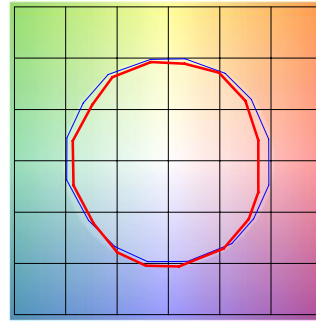
2200K | Rf: 83.9 | Rg: 94.9
Color Vector Graphic
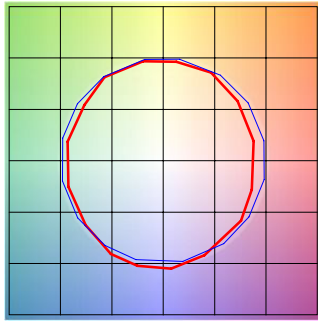
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	77.6	-10.0%	1.8%
2	80.7	-7.5%	7.0%
3	79.5	-2.9%	8.9%
4	90.5	-3.1%	2.4%
5	93.9	-1.3%	1.9%
6	91.9	-0.9%	-0.2%
7	87.6	-6.3%	-2.7%
8	90.5	-5.4%	2.7%
9	83.8	-4.7%	6.5%
10	81.2	-2.5%	10.0%
11	83.3	3.9%	9.4%
12	86.4	5.6%	2.6%
13	86.2	4.5%	-12.4%
14	64.3	-1.0%	-21.9%
15	85.1	-4.4%	-7.5%
16	75.0	-9.9%	-12.0%

Test Reference

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

HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	81.1	-7.7%	3.0%
2	84.9	-5.7%	4.9%
3	85.3	-2.3%	6.1%
4	87.7	-5.5%	-0.5%
5	92.5	-3.9%	0.5%
6	91.1	-3.4%	0.1%
7	86.0	-7.7%	0.5%
8	87.1	-6.0%	4.3%
9	80.1	-3.9%	9.8%
10	79.0	-0.9%	11.8%
11	82.3	5.5%	10.1%
12	87.6	5.4%	-0.5%
13	84.7	3.3%	-12.0%
14	78.0	0.8%	-13.7%
15	86.9	-5.5%	-4.3%
16	78.1	-7.5%	-10.8%

Test Reference

2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic
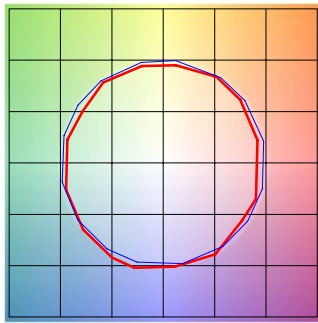
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	86.4	-5.6%	2.3%
2	89.7	-3.3%	3.1%
3	90.5	-1.5%	3.8%
4	90.0	-4.3%	1.1%
5	92.9	-3.7%	0.2%
6	93.5	-2.5%	-0.8%
7	86.3	-7.2%	2.5%
8	90.7	-4.0%	3.2%
9	85.2	-2.4%	8.1%
10	81.7	0.9%	10.8%
11	85.4	4.5%	8.9%
12	88.7	5.7%	-1.4%
13	88.3	1.3%	-7.9%
14	85.1	2.4%	-10.4%
15	88.1	-4.8%	-2.7%
16	81.7	-4.3%	-10.9%

Test Reference

3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic
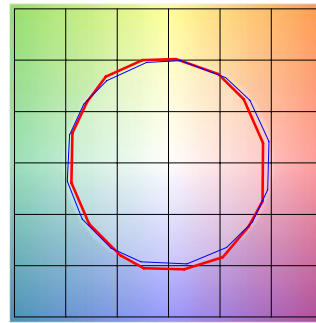
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	87.7	-5.9%	-0.3%
2	87.9	-4.4%	4.3%
3	82.9	-1.2%	7.9%
4	89.9	0.6%	4.7%
5	92.7	3.0%	3.5%
6	92.7	3.6%	-1.7%
7	90.8	-1.3%	-4.4%
8	93.7	-2.5%	-2.2%
9	91.7	-3.7%	2.3%
10	85.5	-2.8%	7.8%
11	83.3	0.7%	11.0%
12	86.4	5.5%	3.8%
13	90.6	4.6%	-3.6%
14	85.6	5.9%	-8.4%
15	89.5	-0.6%	-5.7%
16	82.6	-2.7%	-12.0%

Test Reference

3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic
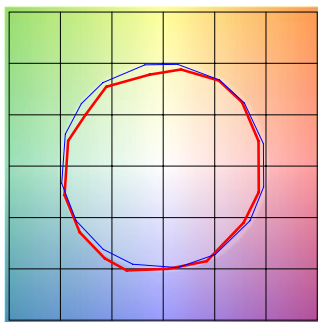
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	86.6	-4.2%	3.4%
2	91.7	-1.4%	1.8%
3	94.9	-0.7%	0.4%
4	87.9	-4.5%	-4.1%
5	85.9	-10.3%	-2.7%
6	89.8	-5.2%	-0.4%
7	79.6	-9.5%	6.5%
8	87.6	-4.0%	5.7%
9	81.4	-0.5%	11.8%
10	78.3	3.3%	11.4%
11	85.7	6.3%	6.1%
12	86.3	7.1%	-4.6%
13	86.1	-0.7%	-9.6%
14	85.1	0.8%	-10.4%
15	83.4	-4.1%	-5.3%
16	82.5	-3.6%	-5.7%

Test Reference

4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic
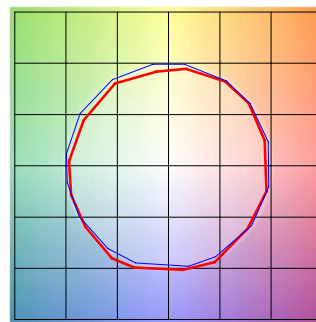
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	89.0	-3.1%	2.1%
2	93.2	-0.9%	1.3%
3	94.3	-1.1%	0.7%
4	89.5	-4.0%	-2.3%
5	87.6	-7.8%	-1.8%
6	92.2	-4.6%	0.1%
7	87.4	-6.6%	3.6%
8	85.7	-3.8%	7.0%
9	81.5	-1.3%	12.4%
10	80.0	0.4%	11.4%
11	83.3	5.9%	8.7%
12	89.7	4.8%	-0.3%
13	88.5	2.4%	-6.3%
14	92.7	4.0%	-3.8%
15	86.1	-1.6%	-4.5%
16	85.0	-1.4%	-5.0%

Test Reference

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REV.08.14.19

PURE EDGE LIGHTING

TM-30-15 DATA

The data below is for SS5C and SS10C 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.
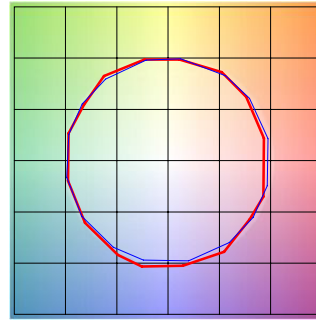
5700K | Rf: 80.3 | Rg: 91.5
Color Vector Graphic
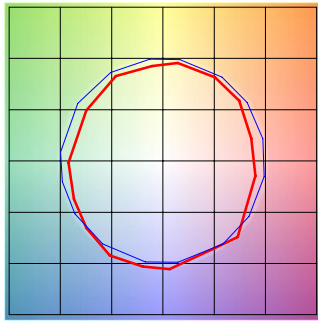
Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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%

2K4K (3000K) | Rf: 90.2 | Rg: 101.4
Color Vector Graphic

Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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%

2000K ONLY (2K4K) | Rf: 84.3 | Rg: 96.9
Color Vector Graphic
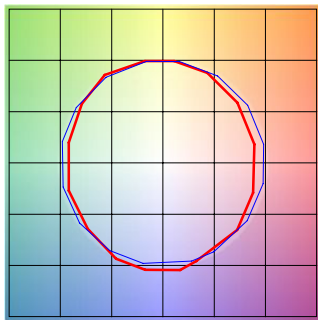
Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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
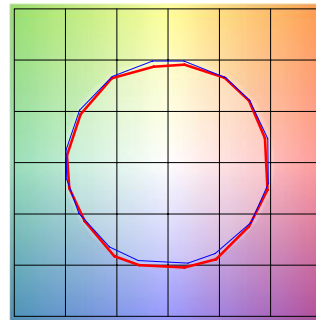
Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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%

2700D | Rf: 89.5 | Rg: 100.8
Color Vector Graphic
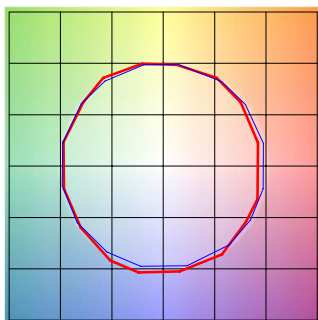
Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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
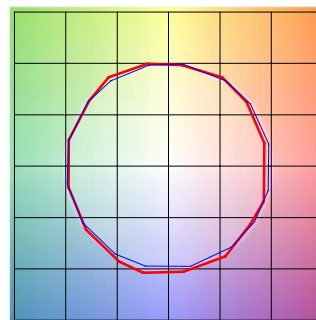
Test Reference

| | | GRAPHIC SHIFTS % | |
HUE BIN	Rf	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%

| PROJECT | | FIXTURE TYPE | | DATE | |

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