Drywall

Drywall with Plaster & Paint

DESCRIPTION

Reveal Wall Wash, a 24VDC linear LED system, features a shallow, plaster-in aluminum extrusion no thicker than drywall. The system may be secured directly to studs without joist modification and plasters into 5/8" thick drywall or between studs with mounting clips provided. Must be mounted 24" away from wall. Sold in 1' increments up to 20' (5WDC), 16' (6WDC), 12' (7WDC), or 10' (10WDC) 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

Reveal Wall Wash is an ideal wall washing solution for contemporary spaces. Multiple runs of channel mount seamlessly together and may wrap inside corners to wash surrounding walls with uniform controlled illumination up to 95+ CRI.

APPLICATIONS

Indoor damp or dry locations only. Wall Wash, General, and Retail

FINISHES

Satin Aluminum and White

LAMP

The average LED Life is 50,000 hours.

WATTS PER FOOT	FINISH	LUMENS		85+CRI 22K, 35K, 40K, 57K	90+CRI 2K4K	92+CRI 27D, 30D	95+CRI 27K, 30K	RGB	RGB+W
		PER WATT	PER FOOT						
5WDC	SA/WH	51	210	•	•	•	•	•	
6WDC	SA/WH	N/A	N/A						•
7WDC (7.5WDC)	SA/WH	48	320	•			•		
10WDC	SA	35	371	•			•		
10WDC	WH	42	529	•	•		•		

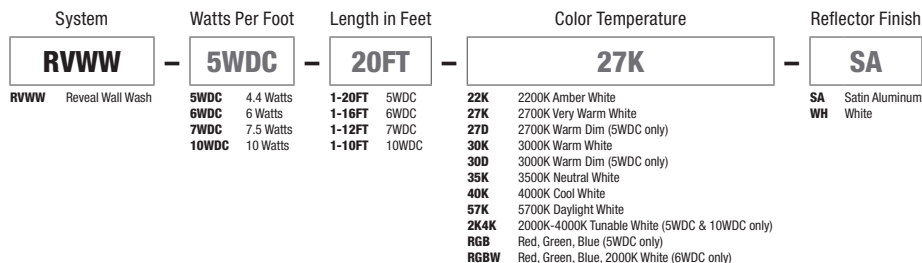Lumen values are based on the 3000K LED test.

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

INCLUDED COMPONENTS

Junction Box, Adjustable Mounting Bars, Reveal Wall Wash Channel(s), Power Feed End Cap, Junction Box Cover, Dead End Cap, Take-Up Box, Drywall Screws, LED Soft Strip, and Lens(es)
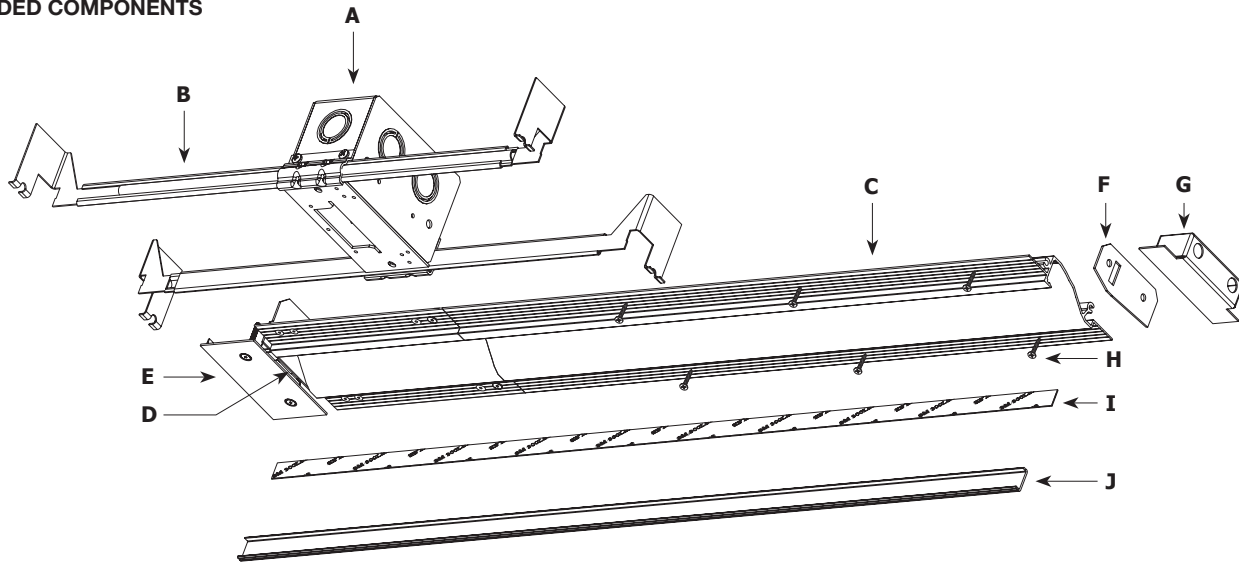
System	Watts Per Foot	Length in Feet	Color Temperature	Reflector Finish
RVWW	**5WDC**	**20FT**	**27K**	**SA**

RVWW Reveal Wall Wash	5WDC 4.4 Watts 6WDC 6 Watts 7WDC 7.5 Watts 10WDC 10 Watts	1-20FT 5WDC 1-16FT 6WDC 1-12FT 7WDC 1-10FT 10WDC	22K 2200K Amber White 27K 2700K Very Warm White 27D 2700K Warm Dim (5WDC only) 30K 3000K Warm White 30D 3000K Warm Dim (5WDC only) 35K 3500K Neutral White 40K 4000K Cool White 57K 5700K Daylight White 2K4K 2000K-4000K Tunable White (5WDC & 10WDC only) RGB Red, Green, Blue (5WDC only) RGBW Red, Green, Blue, 2000K White (6WDC only)	SA Satin Aluminum WH White

PROJECT		FIXTURE TYPE		DATE	

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INCLUDED COMPONENTS

A. JUNCTION BOX

Mounts behind drywall with Adjustable Mounting Bars and includes a drywall template for accurate installation. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is concealed with the Reveal Wall Wash Junction Box cover and is required at the beginning of each run.

B. ADJUSTABLE MOUNTING BARS

Provide flexibility for mounting in a variety of spaces.

C. REVEAL WALL WASH CHANNEL

5/8" deep extrusion houses a single row of commercial-grade White or Dynamic Color Changing LED Soft Strip.

D. POWER FEED END CAP

Provides a connection area for 24VDC wires at beginning of run where LED Soft Strip enters channel.

E. JUNCTION BOX COVER

Conceals Junction Box opening. Required at the beginning of each run.

F. DEAD END CAP PLATE

Provides a finished look and prevents light leak at feed-end of run where LED Soft Strip exits channel.

G. TAKE-UP BOX

Prevents dark spots at end of run by tucking excess LED Soft Strip safely behind wall.
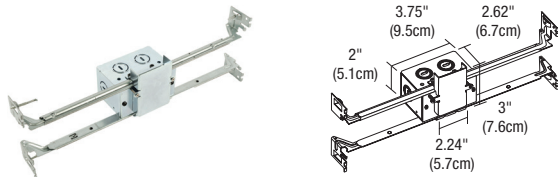
H. DRYWALL SCREWS

Secure channel to drywall and stud.

I. LED SOFT STRIP

(Back Side shown) commercial-grade White or Dynamic Color Changing LED Soft Strip. See lamp data on for additional details.
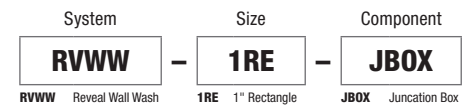
J. LENS

0.74" wide diffuser lens projects a clean line of light without LED dots.

JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with Reveal Wall Wash. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

System	Size	Component
RVWW	**1RE**	**JBOX**
RVWW Reveal Wall Wash	1RE 1" Rectangle	JBOX Junction Box

PROJECT		FIXTURE TYPE		DATE	

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INSTALLATION

A. DIMMER OR SWITCH

B. 120VAC WIRING TO 120V/24VDC REMOTE POWER SUPPLY, FOR IN-WALL MOUNTING KIT

C. 24VDC, CLASS 2 WIRING

D. END FEED POWER CONNECTOR WITH JUNCTION BOX

E. L-SHAPED OUTSIDE CORNER CHANNEL CONNECTOR

F. L-SHAPED INSIDE CORNER CHANNEL CONNECTOR

G. REVEAL WALL WASH CHANNEL

5/8" MIN. DRYWALL STUD LED CHANNEL DRYWALL SCREW LENS PLASTER

■ Direction of Light

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3
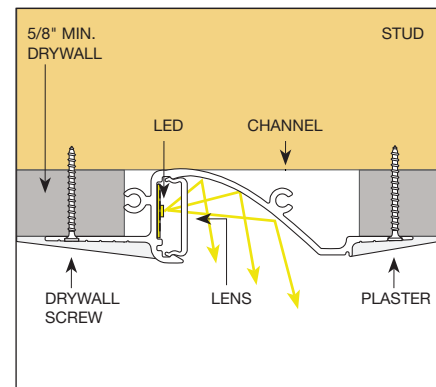
PROJECT		FIXTURE TYPE		DATE	

REVEAL WALL WASH 24VDC - PLASTER-IN LED SYSTEM

REV.10.26.18

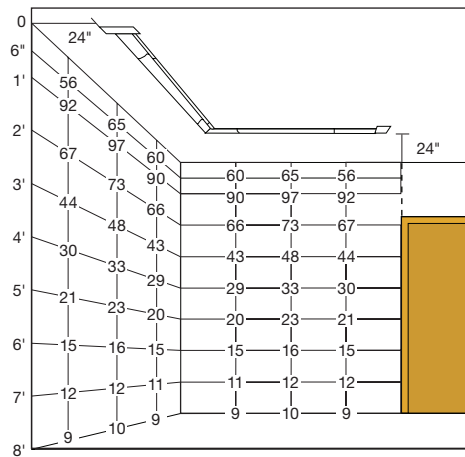|	
APPLICATION	0-10V dimming for Reveal
POWER SUPPLY	PSB-96W-010-24VDC (24VDC 96W output) | PSB-2X96W-010-24VDC (24VDC 2X96W output)
DIMMING	Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-LF

PHILIPS: SUNRISE SR1200ZTUNV CONTROLLER

GRAY 0-10V
PURPLE 0-10V
GND
RED 120VAC (HOT)
WHITE (NEUTRAL)
BLACK (HOT)

PSB-96W-010-24VDC

WHITE (N)
BLACK (L)
PURPLE
GRAY

RED (24VDC+)
BLUE (RETURN-)
YELLOW (DIM RETURN-)

RED (24VDC+)
BLACK (24VDC-)

INPUT 120VAC

REVEAL
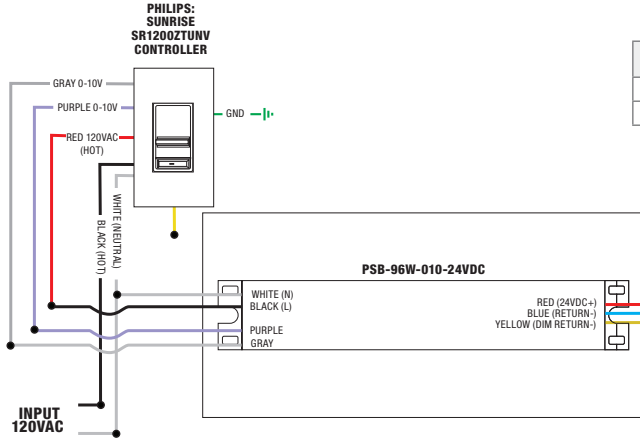
96W, 24VDC LOW VOLTAGE WIRE SIZE CHART: 3% VOLTAGE DROP

WIRE LENGTH (FT)	UP TO 33FT	34FT–52FT	53FT–86FT	87FT–130FT
WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
VOLTAGE AT END OF WIRE	23.28VDC	23.29VDC	23.28VDC	23.28VDC
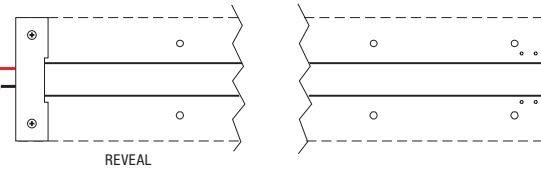
WALL WASH FOOT CANDLE DISTRIBUTION
SHOWN WITH 10 WATT, 3000K VERSION

24"
24"

0					
6"					
1'	56				
	92	65	60	65	56
2'	67	97	90	97	92
3'	73	60	66	73	67
	44	48	43	48	44
4'	30	66	29	33	30
	33	43	20	23	21
5'	21	29	15	16	15
	23	20	11	12	12
6'	15	16	9	10	9
	12	15			
7'	12	11			
	9	10	9		
8'					

WALL WASH DIRECTION OF LIGHT
SHOWN WITH 10 WATT, 3000K VERSION

PROJECT	FIXTURE TYPE	DATE

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REVEAL WALL WASH 24VDC - PLASTER-IN LED SYSTEM

REV.10.26.18

5 WATTS PER FOOT - 22K, 27K, 27D, 30K, 30D, 35K, 40K, 57K, 2K4K AND RGB LEDS

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

6 WATTS PER FOOT - RGBW LEDS

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

7.5 WATTS PER FOOT - 22K, 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	8	4	30	7	53	10	75
2	15	5	38	8	60	11	83
3	23	6	45	9	68	12	90

10 WATTS PER FOOT - 22K, 27K, 30K, 35K, 40K, 57K AND 2K4K LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	10	4	40	7	70	10	100
2	20	5	50	8	80		
3	30	6	60	9	90		

| PROJECT | | FIXTURE TYPE | | DATE | |

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PURE EDGE
LIGHTING

TM-30-15 DATA

The data below is for SS5C, SS7C, 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.

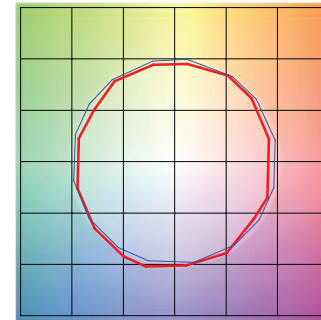### 2200K | Rf: 83.9 | Rg: 94.9
Color Vector Graphic
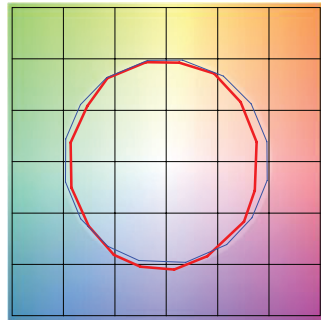
| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	77.6	-10.0%	1.8%
2	80.7	-7.5%	7.0%
3	79.5	-2.9%	8.9%
4	90.5	-3.1%	2.4%
5	93.9	-1.3%	1.9%
6	91.9	-0.9%	-0.2%
7	87.6	-6.3%	-2.7%
8	90.5	-5.4%	2.7%
9	83.8	-4.7%	6.5%
10	81.2	-2.5%	10.0%
11	83.3	3.9%	9.4%
12	86.4	5.6%	2.6%
13	86.2	4.5%	-12.4%
14	64.3	-1.0%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

Test   Reference

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
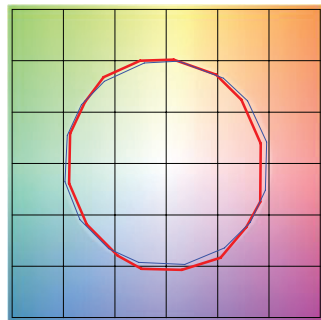
| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	87.7	-5.9%	-0.3%
2	87.9	-4.4%	4.3%
3	82.9	-1.2%	7.9%
4	89.9	0.6%	4.7%
5	92.7	3.0%	3.5%
6	92.7	3.6%	-1.7%
7	90.8	-1.3%	-4.4%
8	93.7	-2.5%	-2.2%
9	91.7	-3.7%	2.3%
10	85.5	-2.8%	7.8%
11	83.3	0.7%	11.0%
12	86.4	5.5%	3.8%
13	90.6	4.6%	-3.6%
14	85.6	5.9%	-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
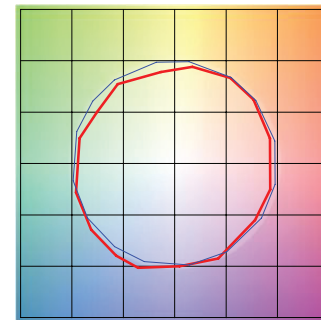
| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	86.6	-4.2%	3.4%
2	91.7	-1.4%	1.8%
3	94.9	-0.7%	0.4%
4	87.9	-4.5%	-4.1%
5	85.9	-10.3%	-2.7%
6	89.8	-5.2%	-0.4%
7	79.6	-9.5%	6.5%
8	87.6	-4.0%	5.7%
9	81.4	-0.5%	11.8%
10	78.3	3.3%	11.4%
11	85.7	6.3%	6.1%
12	86.3	7.1%	-4.6%
13	86.1	-0.7%	-9.6%
14	85.1	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
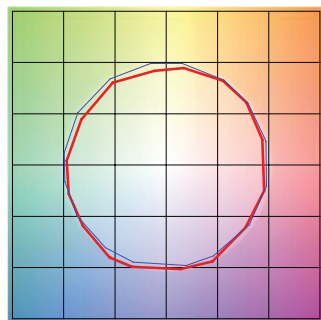
| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	89.0	-3.1%	2.1%
2	93.2	-0.9%	1.3%
3	94.3	-1.1%	0.7%
4	89.5	-4.0%	-2.3%
5	87.6	-7.8%	-1.8%
6	92.2	-4.6%	0.1%
7	87.4	-6.6%	3.6%
8	85.7	-3.8%	7.0%
9	81.5	-1.3%	12.4%
10	80.0	0.9%	11.4%
11	83.3	5.9%	8.7%
12	89.7	4.8%	-0.3%
13	88.5	2.4%	-6.3%
14	92.7	4.0%	-3.8%
15	86.1	-1.6%	-4.5%
16	85.0	-1.4%	-5.0%

Test   Reference

5700K | Rf: 80.3 | Rg: 91.5
Color Vector Graphic
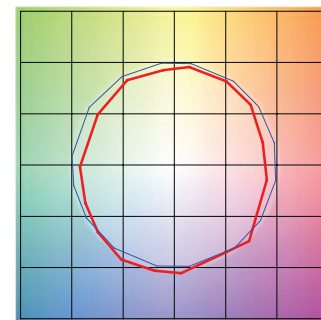
| HUE BIN | Rf | GRAPHIC SHIFTS % | |
		CHROMA	HUE
1	73.8	-11.2%	2.6%
2	83.7	-5.5%	5.8%
3	84.2	-4.0%	5.5%
4	85.8	-3.5%	1.3%
5	85.3	-7.1%	0.6%
6	89.2	-5.8%	-2.2%
7	81.5	-10.7%	1.2%
8	75.7	-9.7%	8.5%
9	74.9	-7.8%	18.8%
10	67.8	-1.6%	18.0%
11	76.1	5.5%	12.0%
12	90.8	4.9%	-1.6%
13	83.6	5.0%	-9.5%
14	81.7	-1.2%	-10.0%
15	69.0	2.0%	-22.8%
16	83.2	-8.5%	-1.0%

Test   Reference

PROJECT		FIXTURE TYPE		DATE	

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PURE EDGE LIGHTING

TM-30-15 DATA

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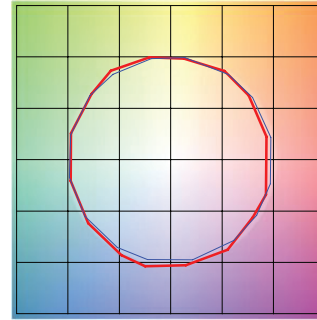### 2700D | Rf: 89.5 | Rg: 100.8
Color Vector Graphic
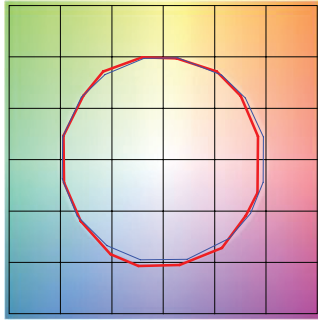
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	88.8	-5.1%	1.4%
2	89.8	-2.7%	4.1%
3	87.2	0.3%	5.9%
4	92.3	-0.9%	1.0%
5	93.3	1.5%	1.7%
6	92.4	3.6%	-0.2%
7	92.2	-0.9%	-2.4%
8	96.7	-0.4%	-1.1%
9	92.3	-1.2%	3.7%
10	88.9	-0.0%	6.1%
11	86.4	5.1%	7.4%
12	88.2	6.3%	-0.9%
13	87.2	3.8%	-8.1%
14	84.2	3.8%	-11.0%
15	89.8	-2.6%	-4.3%
16	82.7	-3.4%	-11.1%

Test Reference

3000D | Rf: 89.8 | Rg: 101.4
Color Vector Graphic

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%

Test Reference

2000K ONLY (2K4K) | Rf: 84.8 | Rg: 97.9
Color Vector Graphic
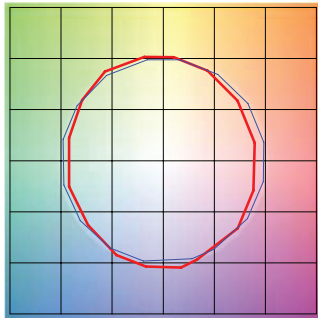
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	81.1	-8.7%	1.2%
2	79.8	-6.9%	7.9%
3	78.5	-2.6%	10.3
4	88.9	1.3%	6.2%
5	94.7	3.2%	2.2%
6	91.4	4.1%	-0.7%
7	88.1	-1.1%	-7.1%
8	90.3	-5.4%	-2.6%
9	88.3	-4.8%	2.6%
10	84.1	-3.8%	7.7%
11	84.8	2.3%	8.8%
12	86.2	4.8%	3.4%
13	86.0	6.4%	-12.2%
14	62.1	-1.0%	-18.9%
15	79.8	-2.7%	-13.1%
16	79.1	-7.8%	-10.4%

Test Reference

4000K ONLY (2K4K) | Rf: 89.6 | Rg: 99.1
Color Vector Graphic
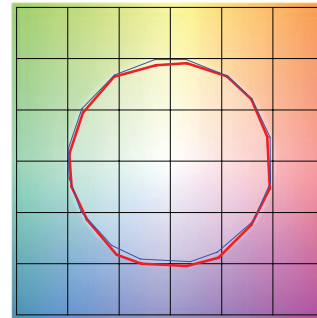
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	91.3	-2.5%	1.0%
2	95.3	-0.5%	0.5%
3	94.3	-0.7%	1.1%
4	91.1	-3.4%	-1.1%
5	89.5	-5.6%	0.0%
6	94.6	-1.4%	1.3%
7	93.2	-3.0%	2.6%
8	91.3	-1.8%	4.6%
9	86.5	-0.9%	9.1%
10	83.3	-0.5%	9.5%
11	83.3	4.9%	9.0%
12	89.7	4.1%	1.7%
13	90.1	3.6%	-4.3%
14	93.4	5.2%	-2.1%
15	87.4	0.4%	-4.3%
16	86.6	0.4%	-6.1%

Test Reference

2K4K (3000K) | Rf: 90.2 | Rg: 101.4
Color Vector Graphic
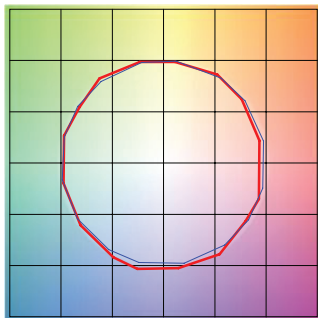
HUE BIN	Rf	GRAPHIC SHIFTS % CHROMA	HUE
1	90.9	-3.8%	1.3%
2	91.7	-1.9%	3.3%
3	88.7	0.7%	5.1%
4	92.4	-1.0%	0.7%
5	92.9	0.9%	1.7%
6	93.1	3.3%	-0.6%
7	91.0	-1.8%	-0.4%
8	97.0	0.2%	-1.1%
9	92.8	-0.5%	3.6%
10	88.3	1.0%	7.0%
11	87.1	3.8%	7.8%
12	87.6	6.5%	-0.3%
13	89.3	3.6%	-6.3%
14	86.1	4.5%	-9.1%
15	91.6	-1.9%	-3.1%
16	83.8	-1.5%	-11.2%

Test Reference

PROJECT		FIXTURE TYPE		DATE	

www.PureEdgeLighting.com | Phone: 773.770.1195 | 1718 W. Fullerton Ave. Chicago, IL 60614
For custom design and layout assistance, send drawings to: design@PureEdgeLighting.com

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