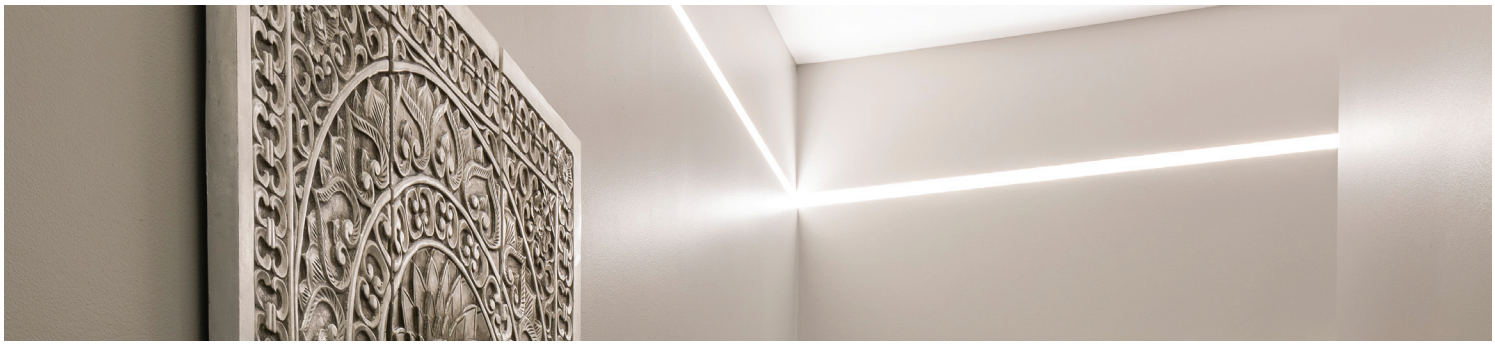
REVEAL COVE & PATHWAY

24VDC PLASTER-IN LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 04.08.24



Let The Drywall Be Your Canvas

DESCRIPTION

Reveal Cove/Pathway is Plaster-in 24VDC LED system that Recesses within 5/8" drywall without any joist modification. Redefining the relationship between Lighting and Interior Design, this innovative system blends seamlessly into the drywall, accenting architecture and serves as a practical wayfinding application. The slim extrusions and LED strips are field-cuttable and ordered in 1' increments (up to 40' before re-feeding). Multiple runs of channel mount flawlessly together providing smooth and Glare-free general illumination using Designer-grade Color Rendering LEDs (95+ CRI). With the ability to run in horizontal and diagonal directions, the compositions are truly endless. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom designs and quotes, send drawings to design@PureEdgeLighting.com.

DESIGN NOTE

Reveal Cove/Pathway projects an indirect glow onto ceilings or floors to provide a glare-free architectural solution for both cove or pathway lighting applications. The 2.5 Watt Reveal is ideal for pathway applications.

MAXIMUM LENGTHS BEFORE RE-FEEDING:

- 2WDC - 2.5 watts per foot - 40'
- 5WDC - 4.4 watts per foot - 20'
- 7WDC - 7.5 watts per foot - 12'
- 10WDC - 9.6 watts per foot - 10'

ORDERING + INSTALLATION

Reveal can be secured to studs spaced 13"-24" apart or between studs with provided mounting clips. Requires Remote Power Supply (ordered separately) In-Wall Mounting Kits are available for select power supplies. Order in 1' increments, field-cuttable to any length.

INCLUDED COMPONENTS

Junction Box with Adjustable Mounting Bars, 6" Starter Piece, Pure Smart/ Wiz Pro CV Bridgebox, Reveal Channel(s), Power Feed End Cap, Junction Box Cover, Dead End Cap, Take-Up Box, Drywall Screws, and LED Soft Strip

LAMP

- Static White Color Temperatures ranging from 2400K through 4000K
- Warm Dim: **27D** and **30D** dim down to 1800K, resembling halogen light sources
- Tunable White: **2K6K** and **27K6** grants independent control for adjusting color temperature and intensity
- Dynamic RGB & RGB+White in 1500K (**RGB**, **RGB20K**) (special order in 27K, 30K and 40K)
- Designer Grade High CRI up to 95+ LEDs
- Average Lamp Life 50,000 hours

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

24VDC, Class 2 wiring

Static White & Warm Dim

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

Tunable White

- Pure Smart™ WiZ Pro Connected Power Supplies & Controls
- 0-10V: Requires two dimmers, one for intensity and one for color temperature
- DMX Dynamic Color Changing: Must be used with PureEdge Controllers

RGB/RGB+W

- Pure Smart™ WiZ Pro Connected Power Supplies & Controls
- DMX Dynamic Color Changing
- Controllers

Lutron

- Lutron Hi-Lume/Ecosystem

*In-Wall Mounting and drop ceiling Kits available for select power supplies

†ELV power supplies are not compatible with nLight, use only Universal power supplies

APPLICATIONS

Designed for any Indoor space with drywall, including Damp locations. Ideal applications in Residential, Commercial, Retail, and Hospitality environments.

COMPLIANCE

ETL Listed, RoHS, Class 2, Damp Location, Made in USA.

System		Watts Per Foot		Length in Feet		Color Temperature
RV	–	2WDC	–	40FT	–	27K

RV Reveal

Watts Per Foot	
2WDC	2.5 Watts
5WDC	4.4 Watts
6WDC	6.3 Watts
7WDC	7.5 Watts
10WDC	9.6 Watts

Length in Feet	
1-40FT	2WDC
1-20FT	5WDC
1-12FT	7WDC
1-10FT	10WDC

Color Temperature			
24K	2400K Very Warm White	**30D**	3000K Warm Dim (5WDC Only)
27K	2700K Incandescent White	**35K**	3500K Neutral White
27D	2700K Warm Dim (5WDC Only)	**40K**	4000K Cool White
30K	3000K Warm White		

2K6K	Tunable White 2000K - 6500K		
27K6	Tunable White 2700K - 6500K		
RGB	Red, Green and Blue (5WDC Only)		
RGBW	Red, Green, Blue and 2000K White (6WDC Only)		

PROJECT		FIXTURE TYPE		DATE	

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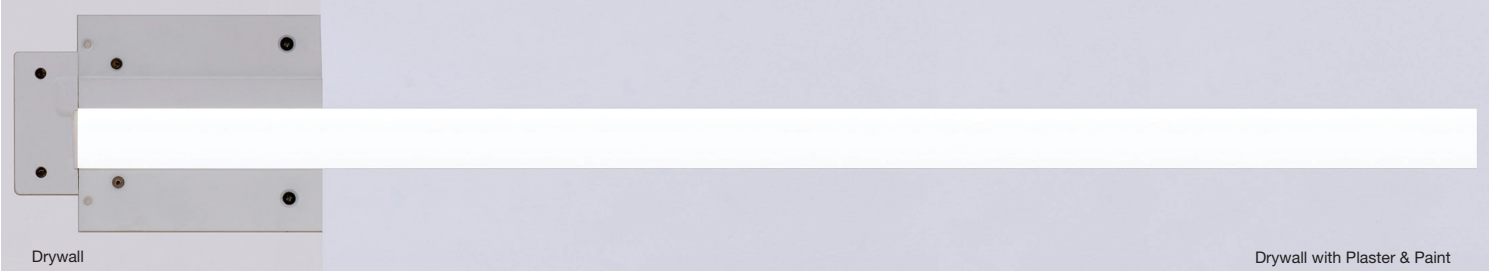
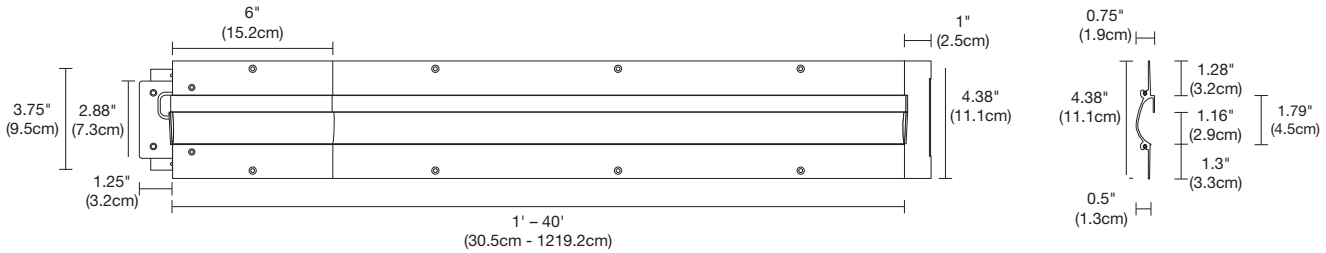
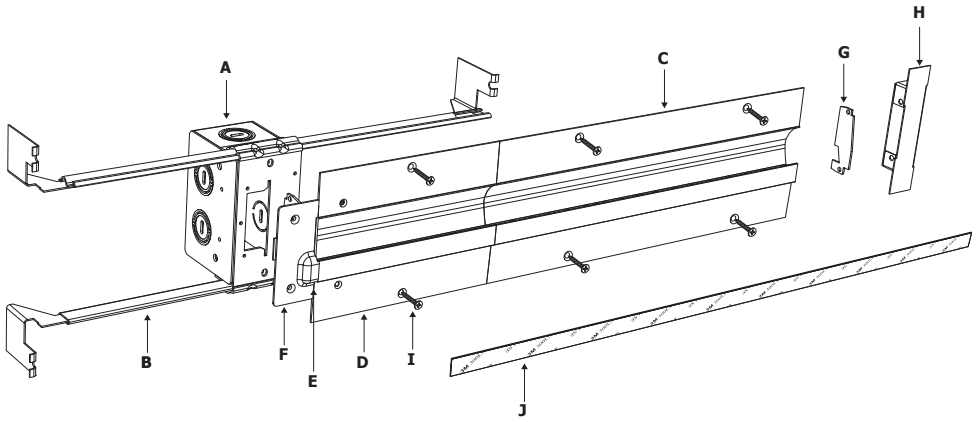




INCLUDED COMPONENTS



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 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 CHANNEL
0.5" deep extrusion houses a single row of commercial-grade White or Dynamic Color Changing LED Strip.

D. REVEAL 6" STARTER PIECE

E. POWER FEED END CAP
Provides a connection area for 24VDC wires at beginning of run where LED Strip enters channel.

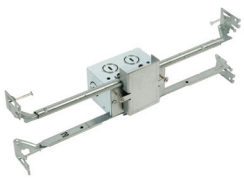
F. JUNCTION BOX COVER
Conceals Junction Box opening. Required at the beginning of each run.

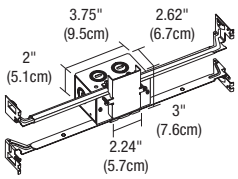
G. DEAD END CAP PLATE
Provides a finished look and prevents light leak at feed-end of run where LED Strip exits channel.

H. TAKE-UP BOX
Prevents dark spots at end of run by tucking excess LED Strip safely behind wall.

I. DRYWALL SCREWS
Secure channel to drywall and stud.

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





JUNCTION BOX ROUGH-IN COMPONENT

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

System		Size		Component
RV	–	**1RE**	–	**JBOX**
RV Reveal		**1RE** 1" Rectangle		**JBOX** Junction Box

PROJECT		FIXTURE TYPE		DATE	

REVEAL COVE & PATHWAY

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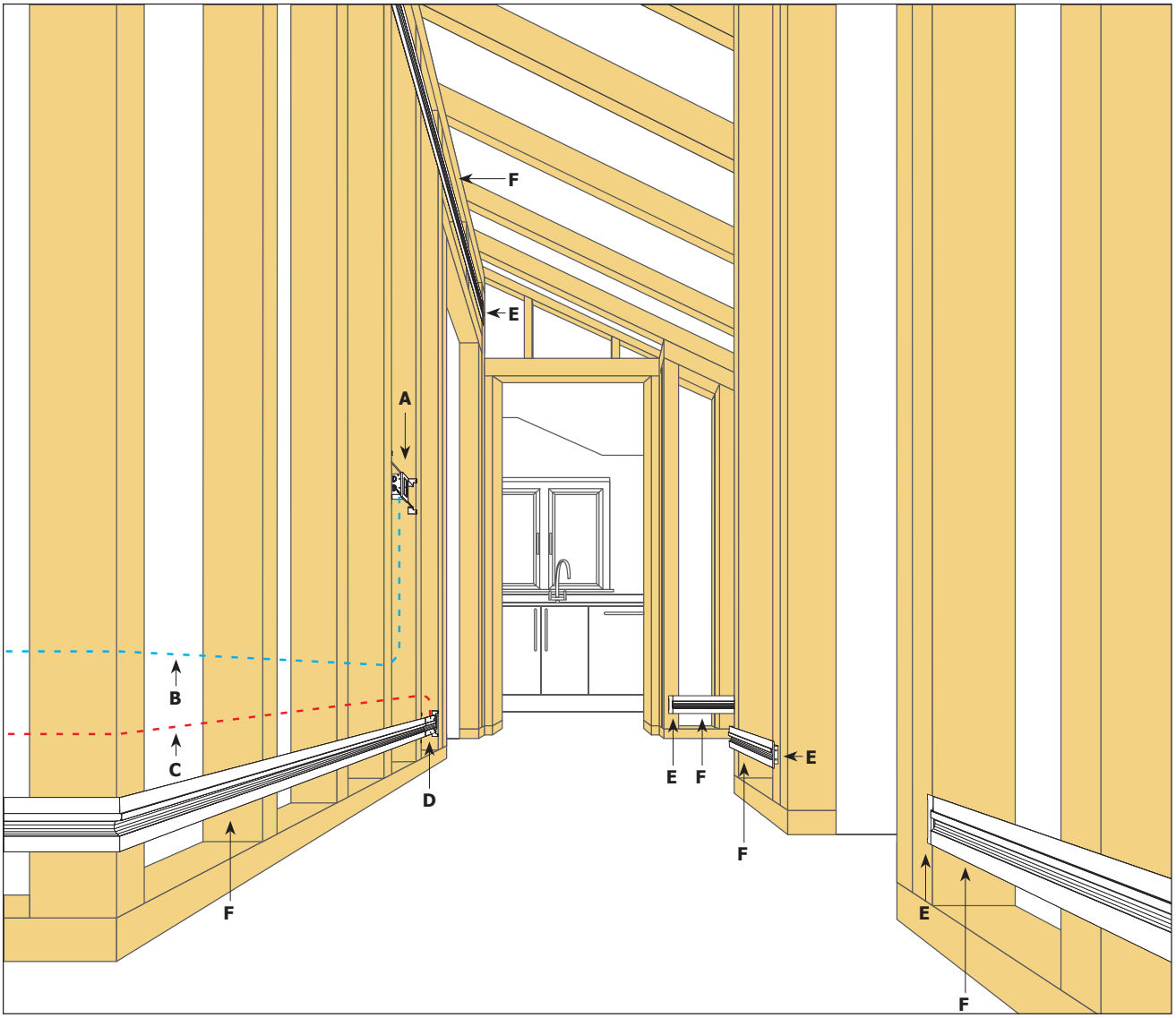
INSTALLATION



A. DIMMER OR SWITCH

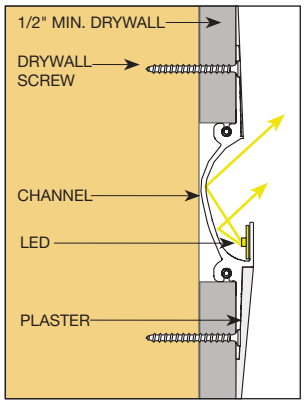
B. 120VAC WIRING TO 120V/24VDC REMOTE POWER SUPPLY, FOR IN-WALL MOUNTING KIT

C. 24VDC, CLASS 2 WIRING

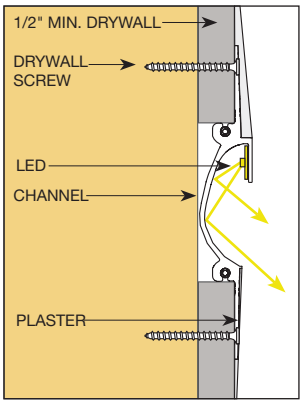
D. END FEED POWER CONNECTOR WITH JUNCTION BOX

E. TAKE-UP BOX

F. REVEAL CHANNEL



Direction of Light
Cove Up-Light



Direction of Light
Pathway Down-Light

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	ST2A					ST5A							ST7A				
WATTS PER FOOT	2.5W					4.4W							7.5W				
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	27D*	30K	30D*	35K	40K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	134	135	141	162	171	248	250	286	261	298	299	316	383	387	403	462	487
LUMENS PER WATT (lm/w)	54	54	56	65	68	56	57	60	59	62	68	72	52	53	55	63	67
CRI	92+	92+	92+	92+	92+	92+	92+	94+	92+	94+	92+	92+	92+	92+	92+	92+	92+
Rf	90	89	89	88	87	90	90	90	89	90	88	87	90	90	89	88	87
Rg	99	98	98	97	97	99	98	99	98	99	97	97	99	99	98	97	97

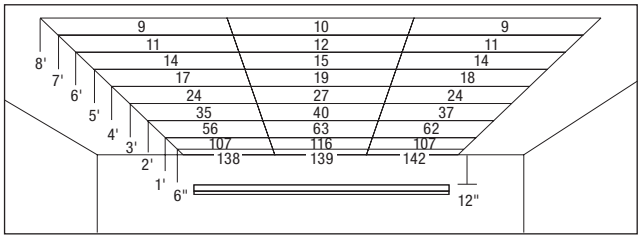
*27D, 30D - Warm Dim (4.8 Watts)

	ST2A 2K6K									ST5A 2K6K										ST7A 2K6K									
WATTS PER FOOT	2.5W									4.6W										7.5W									
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)	78	92	95	97	106	114	109	194	198	206	213	211	209	208	262	268	278	288	284	282	281	463	476	490	504	485	480	
LUMENS PER WATT (lm/w)	42	46	47	49	53	57	90	97	110	45	44	44	44	43	54	56	58	63	44	39	39	64	66	68	70	67	75	
CRI	91+	91+	91+	94+	93+	92+	92+	91+	91+	91+	91+	91+	94+	93+	92+	92+	91+	91+	91+	91+	91+	94+	93+	92+	92+	91+	91+	
Rf	90	90	90	90	90	90	91	87	87	90	90	90	90	90	90	91	87	87	90	90	90	90	90	90	91	87	87	
Rg	99	99	99	99	99	99	101	96	96	99	99	99	99	99	99	101	96	96	99	99	99	99	99	99	101	96	96	

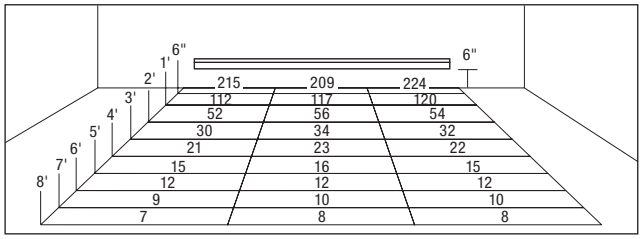
	ST5A 27K6K							ST7A 27K6K						
WATTS PER FOOT	4.6W							7.3W						
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	78	92	95	97	106	114	109	194	198	206	213	211	209	208
LUMENS PER WATT (lm/w)	19.4	20.0	20.6	21.1	23.1	24.8	27.2	30	28	29	30	29	29	33
CRI	92+	92+	92+	95+	93+	93+	93+	92+	92+	92+	95+	93+	93+	93+
Rf	90	90	90	89	88	88	88	90	90	90	89	88	88	88
Rg	99	99	99	99	98	98	98	99	99	99	99	98	98	98

	S5-W5									S5-W7									S5-W10								
WATTS PER FOOT	4.6W									6.4W									7.5W								
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)	81	121	147	165	170	179	194	136	125	100	166	213	242	248	261	256	150	136	106	169	227	267	293	315	306	172	156
LUMENS PER WATT (lm/w)	30	27	34	39	40	41	46	46	52	30	43	35	41	40	42	44	44	45	30	21	29	35	37	40	37	47	54
CRI	92	94	95	95	96	97	97	92	90	93	95	96	97	97	98	97	95	93	93	95	96	97	97	98	97	94	92
DUV	-0.004	-0.0012	-0.0034	-0.0058	-0.0055	-0.0033	-0.0014	-0.0049	-0.0063	-0.003	0.0002	0.003	0.003	0.003	0.0009	0	0.003	0.003	-0.0028	-0.0005	-0.0022	-0.0035	-0.003	-0.0011	-0.0001	-0.0038	-0.0048
Rf	91	93	94	94	95	94	94	92	90	92	93	95	95	95	95	94	92	91	92	93	95	95	95	95	94	92	91
Rg	105	101	103	105	104	102	100	102	103	104	100	102	103	103	101	100	102	103	104	100	103	104	103	102	100	102	103
R9	90	90	90	94	97	97	91	81	70	91	90	90	94	95	93	93	79	67	91	90	90	94	95	93	90	79	69
R13	92	94	95	95	94	96	99	90	87	92	95	96	96	97	99	99	91	88	92	94	96	96	97	100	99	92	89
R15	99	99	99	98	97	97	97	89	85	99	99	99	99	99	98	97	90	85	99	99	99	99	99	98	97	90	86

REVEAL COVE FOOT CANDLE DISTRIBUTION
SHOWN WITH 5 WATT, 3000K VERSION



REVEAL PATHWAY FOOT CANDLE DISTRIBUTION
SHOWN WITH 2.5 WATT, 3000K VERSION



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2.5 WATTS PER FOOT

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	3	11	27	21	51	31	75
2	5	12	29	22	54	32	78
3	8	13	32	23	56	33	80
4	10	14	34	24	58	34	82
5	13	15	37	25	61	35	85
6	15	16	39	26	63	36	87
7	17	17	41	27	66	37	90
8	20	18	44	28	68	38	92
9	22	19	46	29	70	39	94
10	24	20	48	30	72	40	96

5 WATTS PER FOOT

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	5	6	30	11	54	16	78
2	10	7	34	12	58	17	82
3	16	8	40	13	64	18	88
4	20	9	44	14	68	19	92
5	24	10	48	15	72	20	96

6 WATTS PER FOOT

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 WATTS PER FOOT

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	7.5	4	30	7	52.5	10	75
2	15	5	37.5	8	60	11	82.5
3	22.5	6	45	9	67.5	12	90

PROJECT		FIXTURE TYPE		DATE	

TM30 DATA

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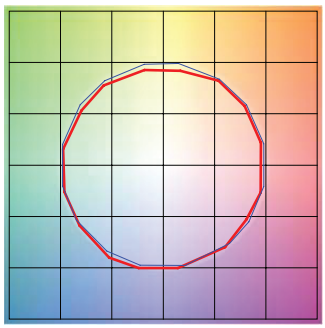
TM-30-15 DATA: The data below is for bare LED Static White Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2400K | Rf: 84.5 | Rg: 94.4

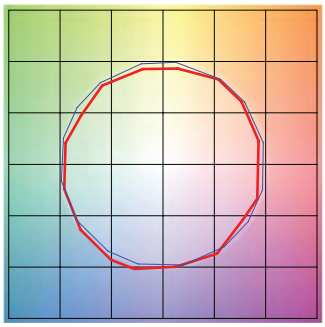
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92	-2.4%	1.5%
2	94.7	-2.1%	-0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

2700K | Rf: 87.7 | Rg: 96.1

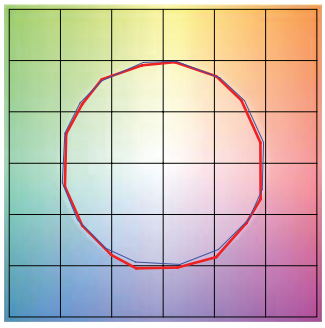
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7

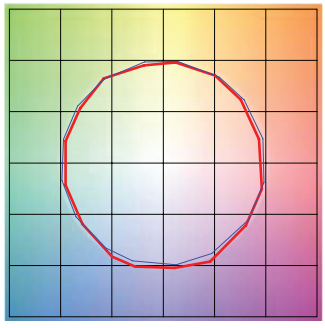
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5

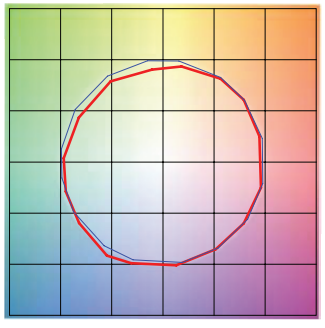
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

4000K | Rf: 87.6 | Rg: 96.8

Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.9	-2.4%	2.5%
2	93.3	-0.4%	0.8%
3	94.8	-1.0%	-0.6%
4	87.9	-4.9%	-3.6%
5	85.3	-9.4%	-2.6%
6	90.2	-6.0%	0.2%
7	85.3	-7.6%	4.6%
8	83.7	-4.1%	8.2%
9	79.5	-1.1%	13.8%
10	78.6	1.5%	12.1%
11	83.5	6.4%	7.8%
12	90.9	3.6%	-1.1%
13	88.3	1.7%	-6.3%
14	91.9	-0.4%	-2.2%
15	84.5	-0.9%	-5.5%
16	84.7	-1.1%	-4.4%

PROJECT		FIXTURE TYPE		DATE	

TM30 DATA

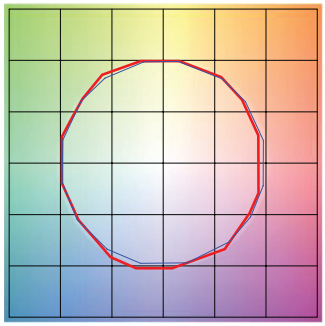
24VDC PLASTER-IN LED SYSTEM

REV 04.08.24

TM-30-15 DATA: The data below is for bare LED Warm Dim 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.

2700D | Rf: 90.7 | Rg: 101.1

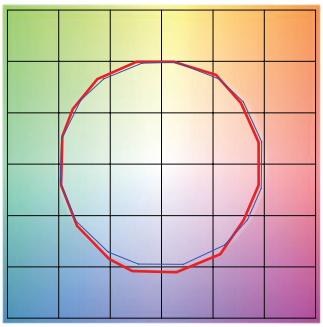
Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic



		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

PROJECT		FIXTURE TYPE		DATE	

TM30 DATA

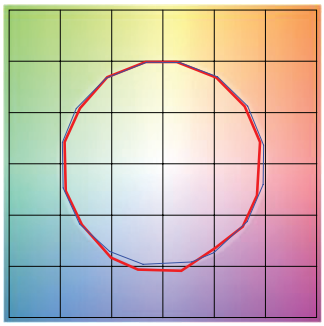
24VDC PLASTER-IN LED SYSTEM

REV 04.08.24

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

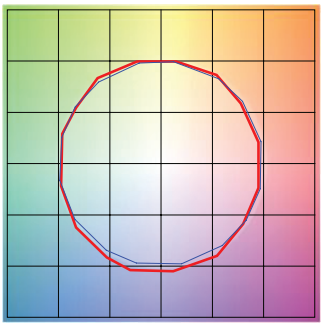
Color Vector Graphic



		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

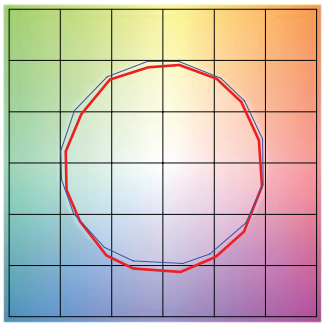
Color Vector Graphic



		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



		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%

PROJECT		FIXTURE TYPE		DATE	