

KNIFE EDGE CEILING

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE & WARM DIM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.10.25



DESCRIPTION

Knife Edge Ceiling is another innovative design, coming from the family of plaster-in 24VDC systems, pioneered by PureEdge, that recess within 5/8" drywall without joist modification. With a true Knife Edge profile, there is no visible sightline of the lens or light shield, delivering a seamless, visual field across adjacent surfaces. The Knife Edge system generates a sophisticated and seamlessly sharp architectural element, providing consistent lighting across neighboring surfaces. It accommodates 5/8" thick drywall on its underside, making it suitable for architectural reveals, accent lighting, and surface mount applications. Offered in multiple wattage and color temperatures ranging from 2400K through 4000K. Remote Power supplies are required and sold separately. Remote Power supplies are required and sold separately. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send drawings to design@PureEdgeLighting.com. Designed by Gregory Kay.

DESIGN NOTE

Knife Edge Ceiling can be installed on a single wall surface, such as the perimeter of the ceiling, or in a soffit, to accentuate or highlight coves and other architectural elements. Ambient and harmonious, the plaster-in LED system blends into 5/8" thick drywall to enhance the contemporary aesthetic of interior spaces. Knife Edge offers unsurpassed precision and flexibility that transforms spaces into thoughtful and refined works of art.

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 2WDC, 2.5 watts per foot - 40', 172 lm/ft @ 3000K
- 5WDC, 4.4 watts per foot - 20', 319 lm/ft @ 3000K
- 7WDC, 7.5 watts per foot - 12', 492 lm/ft @ 3000K
- 10WDC, 9.4 watts per foot - 10', 632 lm/ft @ 3000K

LAMP

- Offered in multiple Static White and Warm Dim color temperatures including 2700K (**27D**) and 3000K (**30D**)
- Lumen Performance: 492lm/ft at 3000K 7 watts per foot
- Designer Grade High CRI 95+ LEDs
- Average life: 50,000 hours
- For additional color temperatures refer to other specifications

REMOTE POWER SUPPLIES*, DIMMERS & CONTROLS (INCLUDED IN ORDERING CODE)

24VDC, Class 2 wiring

- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)
- [UNI Driver: Universal Dimming \(ELV, TRIAC, 0-10V\)](#)
ELV & TRIAC [Smart Dimmer & Switch](#)
- [DALI/DALI-2](#)
- [Electronic Low Voltage \(ELV\)](#)† 50W (fits inside junction box)
- [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

INCLUDED COMPONENTS

Junction Box, Power Connector, End Caps, Power Feed (left or right), Adjustable Mounting Bars, Backer Plate, Knife Edge Ceiling Channel(s), Drywall Screws, LED Strip, and Lens(es)

APPLICATIONS

Indoor damp or dry locations only. Ideal for ceiling perimeters and outlining architectural elements in residential, commercial, retail, education, or healthcare institutions and hospitality environments.

COMPLIANCE

ETL, Class 2, Damp Location, Assembled in USA.

PureEdge is the Original Designer of 5/8" Drywall Products, Backed by Over 30 Years of Precision Manufacturing and Design.

System	Type	Watts Per Foot	Length in Feet	Color Temperature
KNE	WL	2W	10FT	27K
KNE Knife Edge Ceiling	SF Soffit WL Wall	2W 2.5 Watts (40ft Max) 5W 5 Watts (20ft Max) 7W 7.5 Watts (12ft Max) 10W 10 Watts (10ft Max)	1-40FT	24K 2400K Very Warm White 27K 2700K Incandescent White 27D 2700K Warm Dim 30K 3000K Warm White 30D 3000K Warm Dim 35K 3500K Neutral White 40K 4000K Cool White

PROJECT		FIXTURE TYPE		DATE	
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NOMINAL DELIVERED LUMENS

NOMINAL LAMP DATA	ST2A					ST5A						
WATTS PER FOOT	2.5W					4.4W						
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	27D*	30K	30D*	35K	40K
LUMENS PER FOOT (lm/ft)	164	165	172	198	208	303	306	319	319	324	366	385
LUMENS PER WATT (lm/w)	65	66	69	79	83	69	69	66	72	68	83	88
CRI	92+	92+	92+	92+	92+	92+	92+	94+	92+	94+	92+	92+

*Warm Dim: 4.8 Watts

NOMINAL LAMP DATA	ST7A					SS10C					
WATTS PER FOOT	7.3W					9.6W					
COLOR TEMPERATURE	24K	27K	30K	35K	40K	24K	27K	30K	35K	40K	
LUMENS PER FOOT (lm/ft)	467	472	492	566	595	576	607	632	725	765	
LUMENS PER WATT (lm/w)	64	65	67	78	82	60	63	66	76	80	
CRI	92+	92+	92+	92+	92+	90+	95+	95+	85+	85+	

LENGTH LOAD CHARTS: To determine the necessary wire gauge use our [Voltage Drop Calculator](#).

2.5 WATTS PER FOOT			
LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	3	21	51
2	5	22	54
3	8	23	56
4	10	24	58
5	13	25	61
6	15	26	63
7	17	27	66
8	20	28	68
9	22	29	70
10	24	30	72
11	27	31	75
12	29	32	78
13	32	33	81
14	34	34	84
15	37	35	87
16	39	36	90
17	41	37	93
18	44	38	96
19	46	39	99
20	48	40	102

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

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

10 WATTS PER FOOT	
LENGTH IN FEET	WATTS
1	9.6
2	19.2
3	28.8
4	38.4
5	48
6	57.6
7	67.2
8	76.8
9	86.4
10	96

PROJECT		FIXTURE TYPE		DATE	
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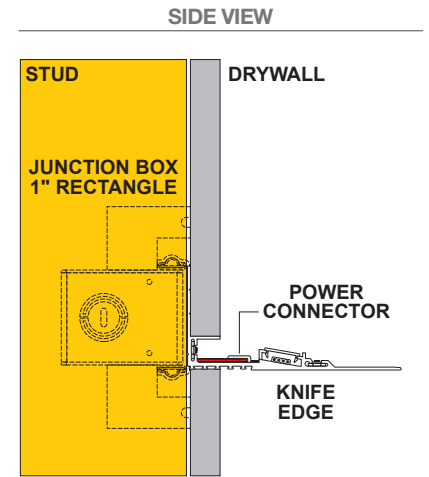
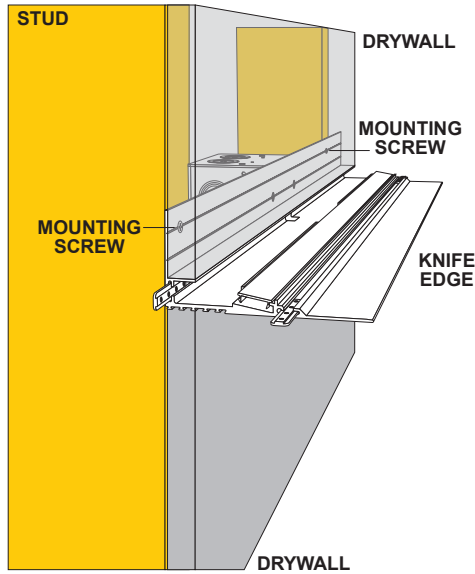
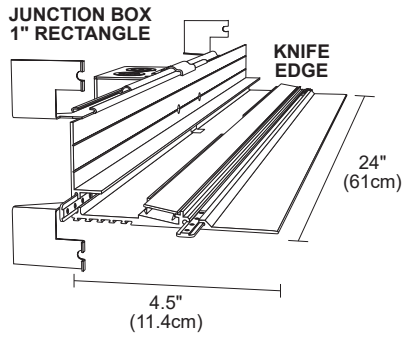
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WALL INSTALLATION

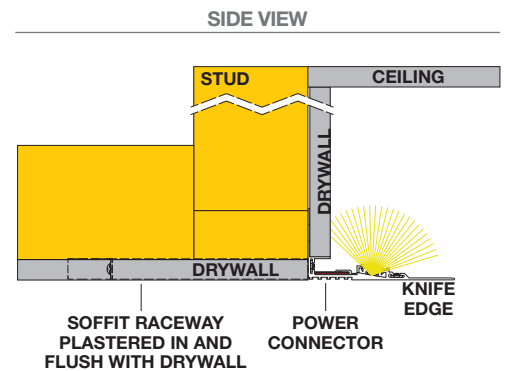
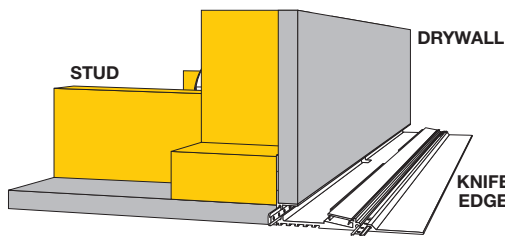
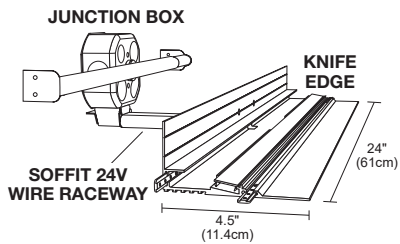
Wall Power feed may be mounted to end or center of run. Includes two power feed connectors.



System	Type	Power Feed	Color Temperature
KNE	WL	CP	30K
KNE Knife Edge Ceiling DIY	WL Wall	CP Center Power Feed EPL End Power Feed Left EPR End Power Feed Right	24K 2400K Very Warm White 27K 2700K Incandescent White 27D 2700K Warm Dim 30K 3000K Warm White 30D 3000K Warm Dim 35K 3500K Neutral White 40K 4000K Cool White

SOFFIT INSTALLATION

Soffit Power feed may be mounted to end or center of run. Includes two power feed connectors.



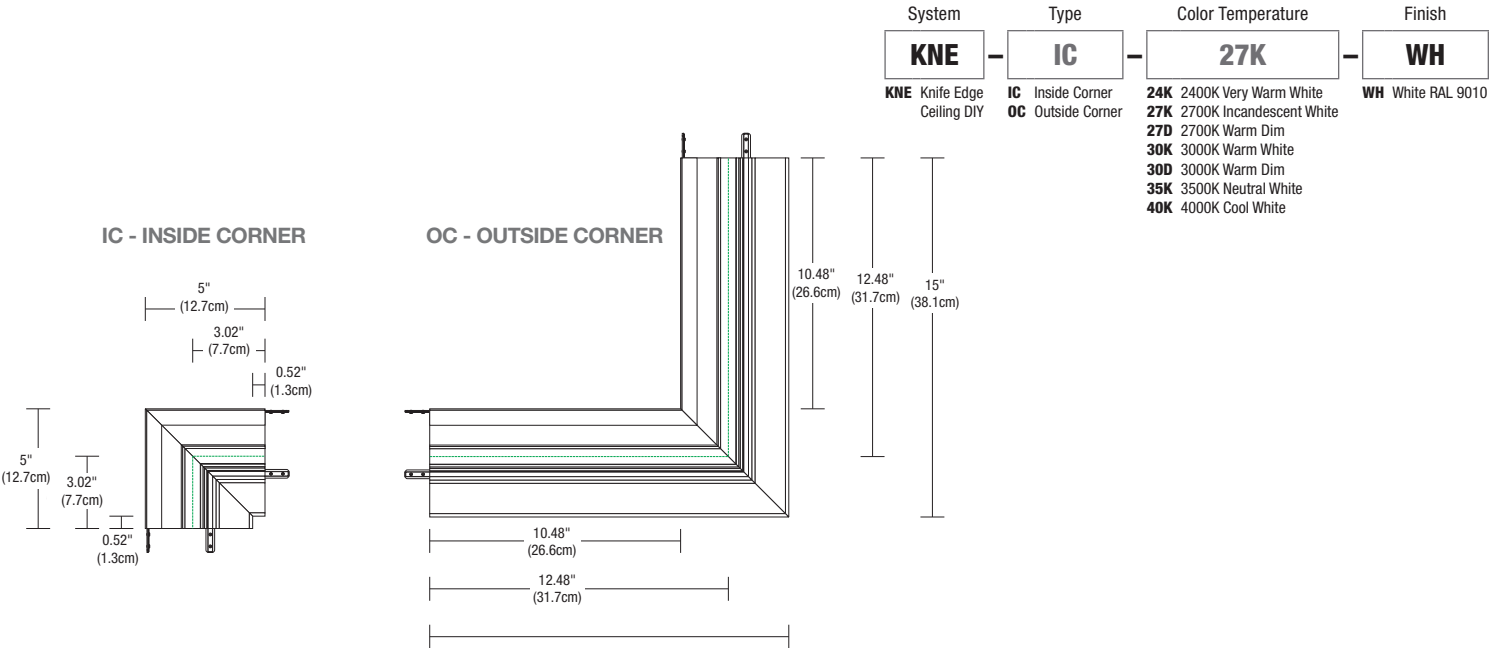
System	Type	Power Feed	Color Temperature
KNE	SF	CP	27K
KNE Knife Edge Ceiling DIY	SF Soffit	CP Center Power Feed EPL End Power Feed Left EPR End Power Feed Right	24K 2400K Very Warm White 27K 2700K Incandescent White 27D 2700K Warm Dim 30K 3000K Warm White 30D 3000K Warm Dim 35K 3500K Neutral White 40K 4000K Cool White

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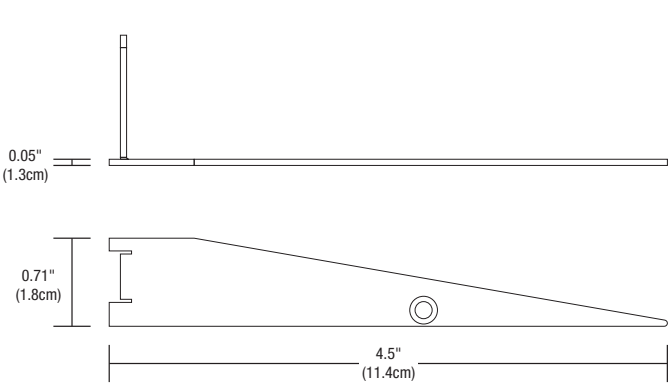
KNIFE EDGE CEILING

24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

KNIFE EDGE CORNERS



FLAT END CAPS



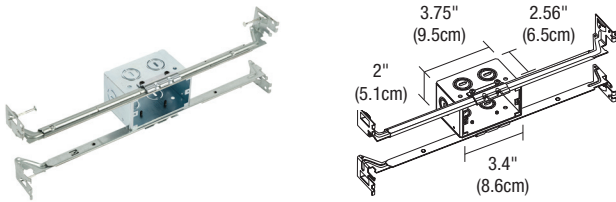
System	Type	Finish
KE	CA	WH
KE Knife Edge	CA End Caps	WH White RAL 9010

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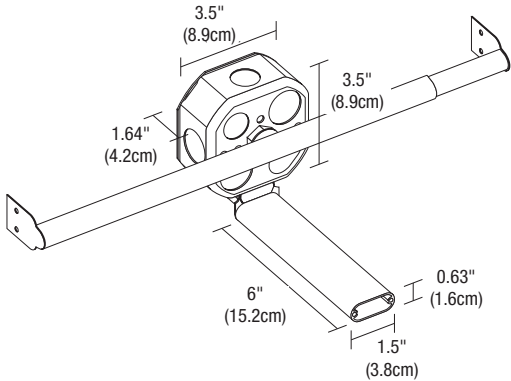
ADDITIONAL PARTS



JUNCTION BOX FOR WALL INSTALLATION

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

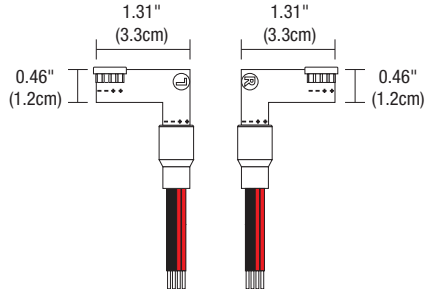
System	Installation	Component
KNE	WL	JBOX
KNE Knife Edge Ceiling	WL Wall	JBOX Junction Box



JUNCTION BOX FOR SOFFIT INSTALLATION

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

System	Installation	Component
KNE	SF	JBOX
KNE Knife Edge Ceiling	SF Soffit	JBOX Junction Box



L CONNECTORS

Each connector is 6" in length. Included with power feeds above.

System	Type	Component	Color Temperature
SS	PFE	KE-L	DW
SS Stomp Strip/Soft Strip	PFE Power Feed	KE-L Knife Edge Left KE-R Knife Edge Right	DW Static White/Warm Dim, 2 Wire/ Tunable White/Pro Dim/RGB, 4 Wire

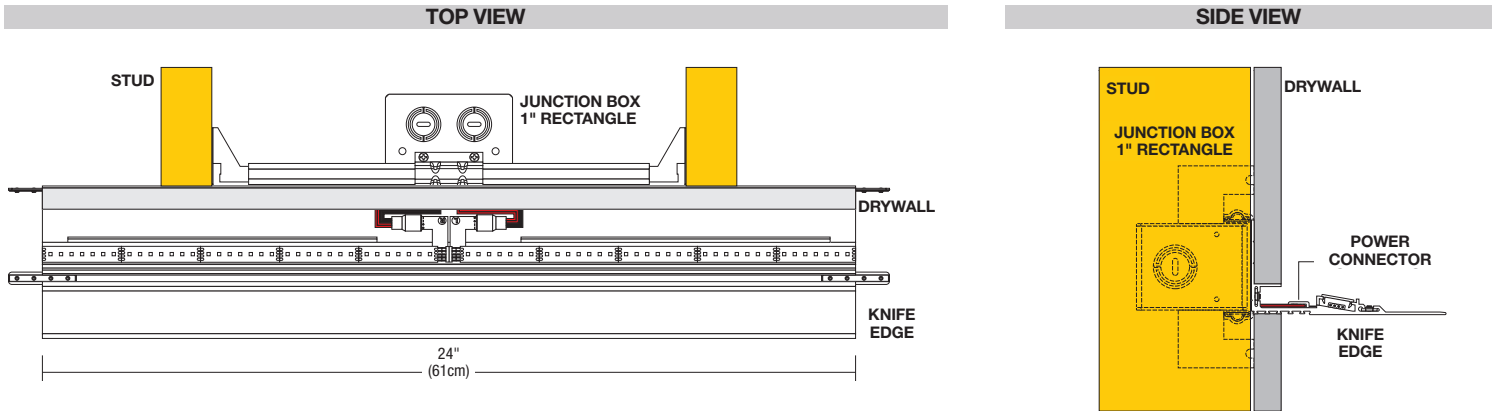
PROJECT		FIXTURE TYPE		DATE	
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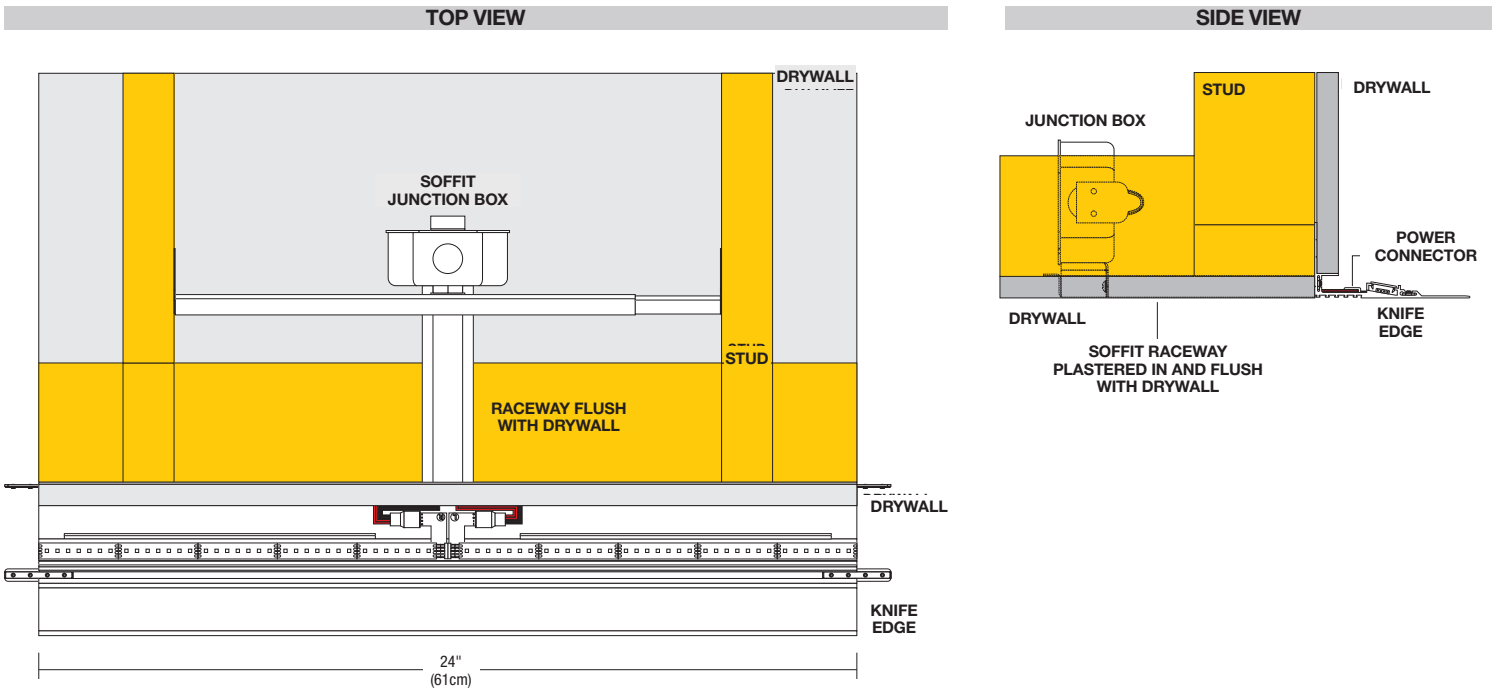
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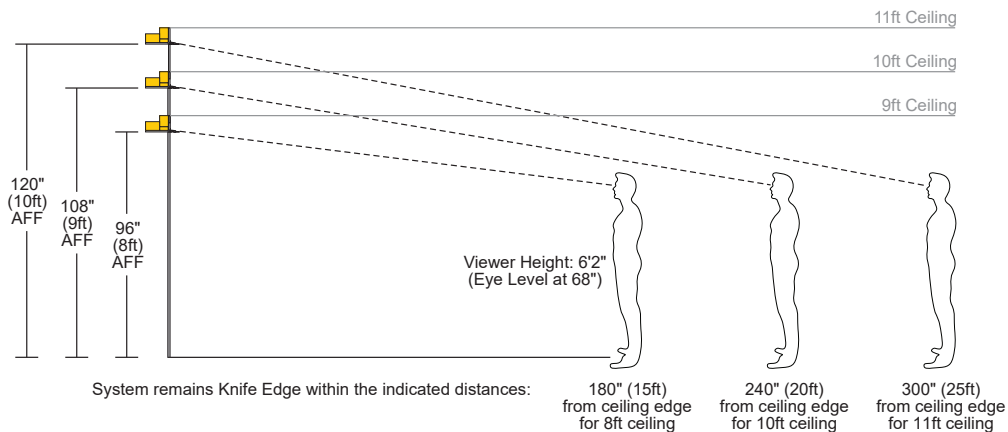
DIMENSIONAL DRAWINGS - WALL INSTALLATION



DIMENSIONAL DRAWINGS - SOFFIT INSTALLATION



SIGHTLINE DISTANCES

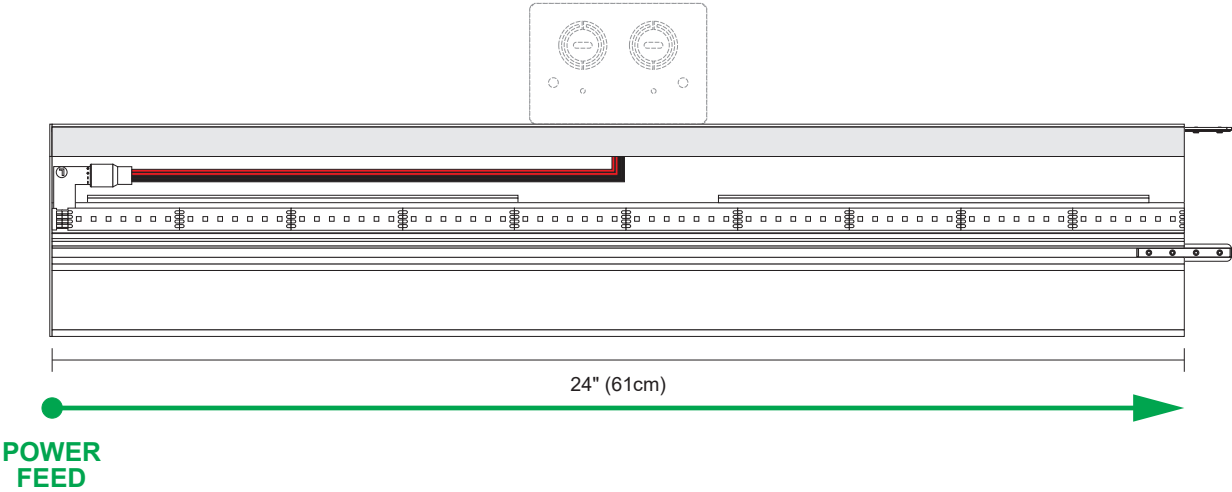


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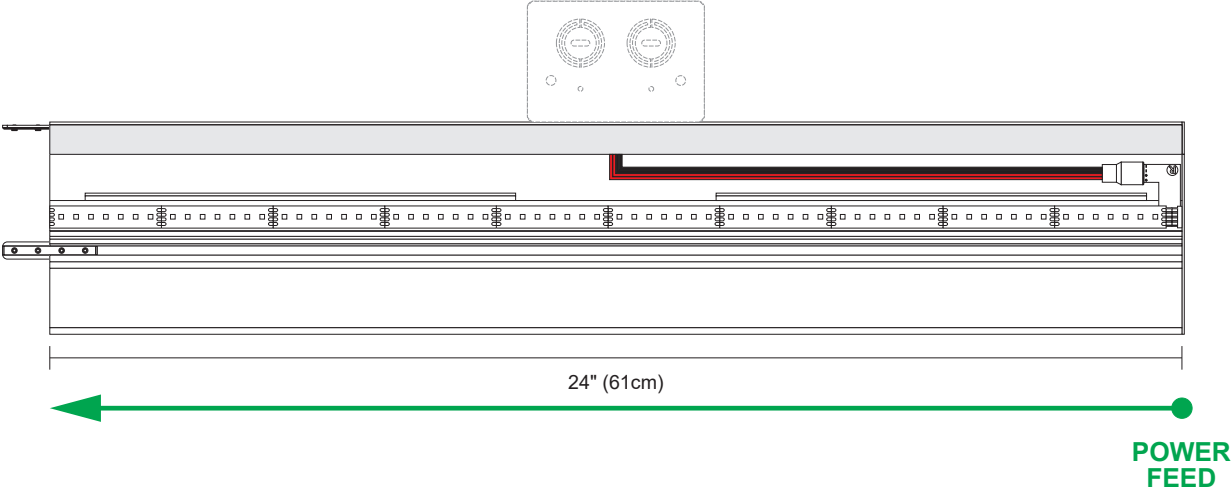
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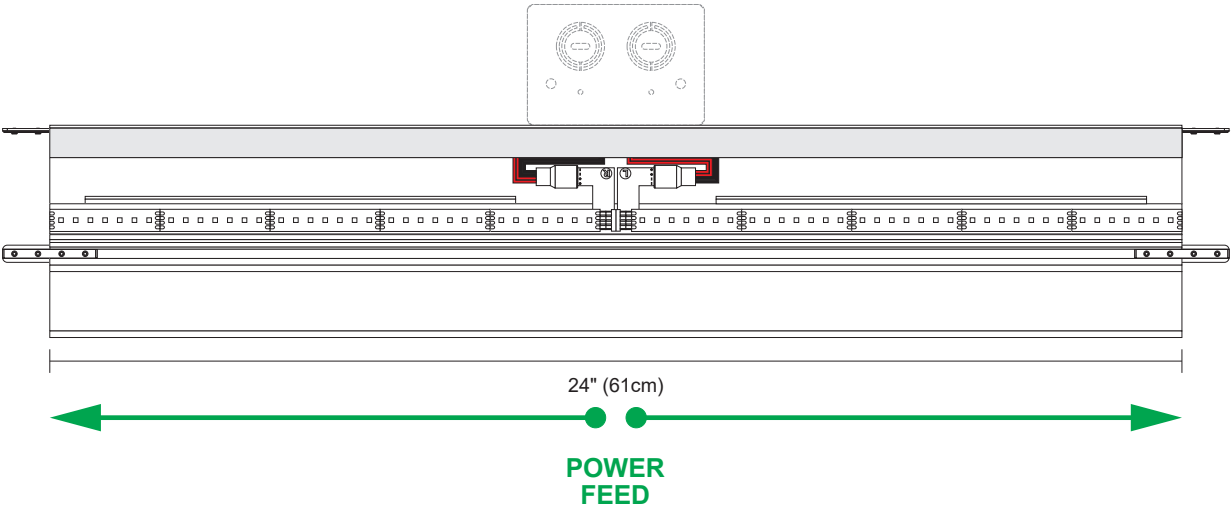
END FEED - LEFT



END FEED - RIGHT



CENTER FEED



PROJECT		FIXTURE TYPE		DATE	
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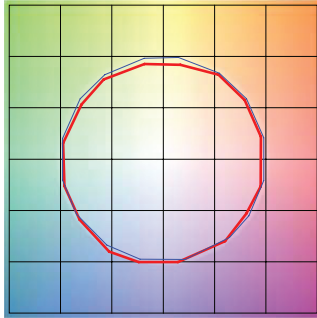
TM30 DATA

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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

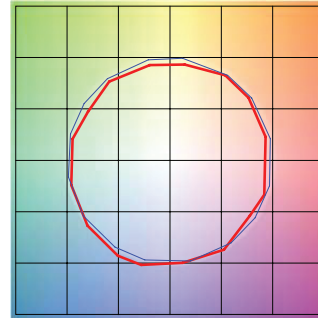


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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

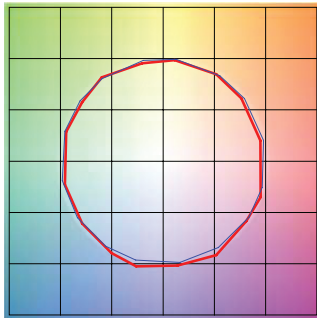


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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

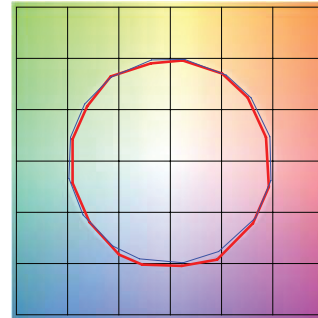


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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

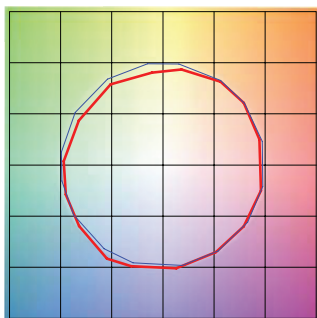


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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%

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