KNIFE EDGE CEILING TRUCOLOR™ RGBTW

24VDC PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 11.18.25

DESCRIPTION

Knife Edge Ceiling with 24V TruColor™ RGBTW technology combines five tunable LED channels for exceptional color accuracy. 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. 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.

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)

MAXIMUM LENGTHS BEFORE RE-FEEDING

- 5W5DC - 20' End Feed
- 5W7DC - 12' End Feed
- 5W10DC - 10' End Feed

LAMP PERFORMANCE

- 5W5DC 360lm/ft 5W @ 3000K
- 5W7DC 526m/ft 7W @3000K
- 5W10DC 622lm/ft 10W @3000K
- Average life: 50,000 hours

TRUCOLOR™ RGBTW TECHNOLOGY

PureEdge Pure Smart TruColor™ technology uses five channels of tunable LEDs, composed of **RGBTW** red, blue, green, and Tunable White (**1500K-6500K**). With our precision-engineered, proprietary color mixing, we produce one of the widest, most accurate spectrums available, giving our customers access to the warm glow of the sunset (1500K-2400K golden hour) to the pure white light of the mid-day sun (5700K) and everything in between. TruColor™ LED's achieve an average CRI-Color Rendering Index of 94+ and a Duv of +-0.0021 in relation to the blackbody curve at any point on the spectrum of tunable white CCT. Dynamic Color Changing functionality provides millions of possibilities for intricate customization, rich saturated or secondary colors, and unprecedented ease of installation, making RGBTW the ideal choice for residential and commercial applications. TruColor™ RGBTW adds more than just decorative flexibility; it also helps to support a healthy Circadian Rhythm and well-being. Let TruColor™ transform your space and the people within it. Click here for all Other Color Temperatures.

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

24VDC, Class 2 wiring

- Home Integration Solutions
- Pure Smart™ WiZ Pro Power Supplies & Smart Controls
- DMX to WiZ Interface, Power Supply & Controls

*In-Wall mounting and drop ceiling kits available for select power supplies

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	Finish
KNE	WL	S5W5	10FT	TC	WH

KNE	Knife Edge Ceiling	**SF**	Soffit	**S5W5**	5 watts RGB & 5 watts Tunable White (20ft Max)	**1-20FT**	20' End Feed (S5W5)
		WL	Wall	**S5W7**	5 watts RGB & 7 watts Tunable White (12ft Max)	**1-12FT**	12' End Feed (S5W7)
				S5W10	5 watts RGB & 10 watts Tunable White (10ft Max)	**1-10FT**	10' End Feed (S5W10)

TC	TruColor™ RGBTW Red, Green, Blue, and Tunable White 1500K-6500K	**WH**	White RAL 9010		

PROJECT		FIXTURE TYPE		DATE	

KNIFE EDGE CEILING TRUCOLOR™ RGBTW

24VDC PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

REV 11.18.25

NOMINAL DELIVERED LUMENS

DESCRIPTION	**S5W5**									**S5W7**									**S5W10**									
WATTS PER FOOT	4.6W									6.4W									8.3W									
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)	162	243	295	331	342	361	390	274	252	201	334	429	487	500	526	515	303	274	213	341	458	537	591	634	617	347	315
LUMENS PER WATT (lm/w)	60	53	68	78	81	83	93	93	92	60	87	70	82	81	86	88	88	86	61	43	58	70	75	81	74	95	79
CRI	91.8	93.8	94.5	94.9	95.5	96.9	97.2	92.1	89.8	93	95	96	97	97	98	97	95	93	92.7	94.5	95.7	96.5	97.4	98.1	97	93.6	91.6
Duv	-0.004	-0.001	-0.003	-0.006	-0.006	-0.003	-0.001	-0.005	-0.006	-0.003	0.000	0.003	0.003	0.003	0.001	0.000	0.003	0.003	-0.003	-0.001	-0.002	-0.004	-0.003	-0.001	0.000	-0.004	-0.005
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
WATTS/FOOT	2.7	4.55	4.35	4.25	4.25	4.35	4.2	2.95	2.75	3.35	3.85	6.15	5.95	6.15	6.15	5.84	3.45	3.2	3.5	8	7.9	7.7	7.85	7.8	8.3	3.65	4

LENGTH LOAD CHARTS: To determine the necessary wire gauge use our Voltage Drop Calculator.

S5W5 WATTS PER FOOT				
LENGTH IN FEET	**RGB Wattage**	**Tunable White Wattage**	**Pure Smart™ WiZ Pro Wattage**	**DMX Wattage**
1	5	5	5	10
2	10	10	10	20
3	15	15	15	30
4	20	20	20	40
5	25	25	25	50
6	30	30	30	60
7	35	35	35	70
8	40	40	40	80
9	45	45	45	90
10	50	50	50	100
11	55	55	55	
12	60	60	60	
13	65	65	65	
14	70	70	70	
15	75	75	75	
16	80	80	80	
17	85	85	85	
18	90	90	90	
19	95	95	95	
20	100	100	100	

S5W7 WATTS PER FOOT			
LENGTH IN FEET	**RGB Wattage**	**Tunable White Wattage**	**Pure Smart™ WiZ Pro Wattage**
1	5	7	7
2	10	14	14
3	15	21	21
4	20	28	28
5	25	35	35
6	30	42	42
7	35	49	49
8	40	56	56
9	45	63	63
10	50	70	70
11	55	77	77
12	60	84	84

S5W10 WATTS PER FOOT			
LENGTH IN FEET	**RGB Wattage**	**Tunable White Wattage**	**WiZ Pro Wattage**
1	5	10	10
2	10	20	20
3	15	30	30
4	20	40	40
5	25	50	50
6	30	60	60
7	35	70	70
8	40	80	80
9	45	90	90
10	50	100	100

PROJECT		FIXTURE TYPE		DATE	

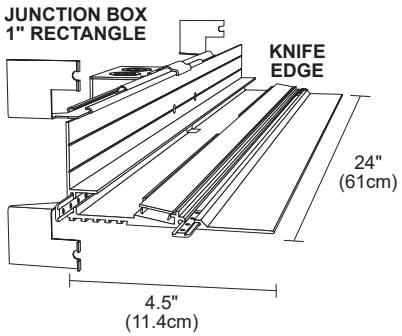
KNIFE EDGE CEILING TRUCOLOR™ RGBTW

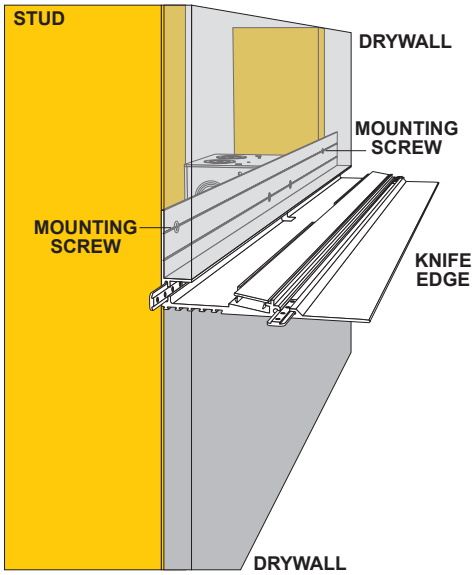
24VDC PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

REV 11.18.25

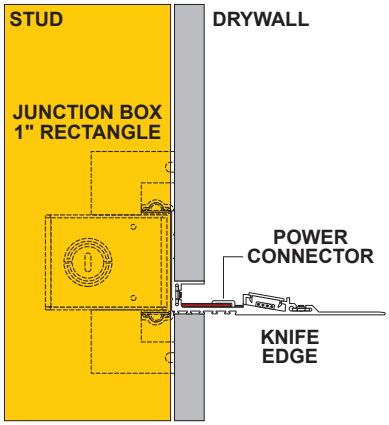
WALL INSTALLATION

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



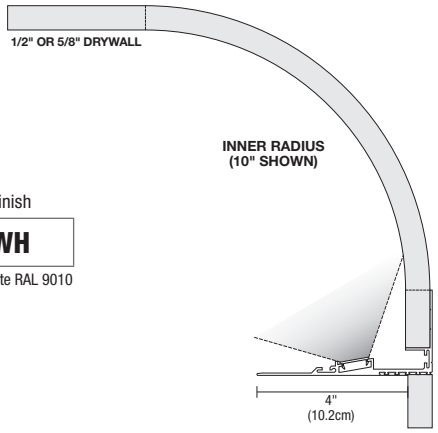


SIDE VIEW



SIDE VIEW

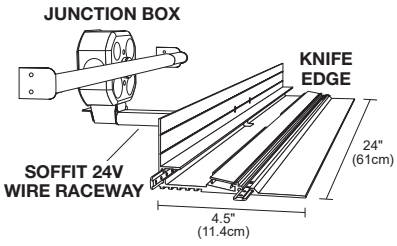
with curved wall to ceiling for Ganzfeld Effect in the corners

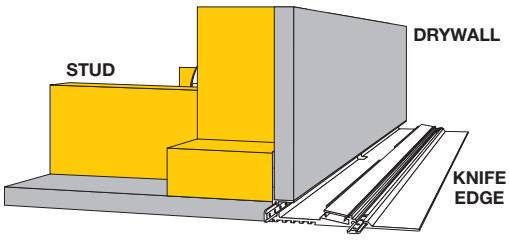


System	Type	Power Feed	Color Temperature	Finish
KNE	**WL**	**CP**	**RGBTW**	**WH**
KNE Knife Edge Ceiling DIY	**WL** Wall	**CP** Center Power Feed **EPL** End Power Feed Left **EPR** End Power Feed Right *Power Feed options shown on page 7	**RGBTW** Red, Green, Blue, and Tunable White 1500K-6500K	**WH** White RAL 9010

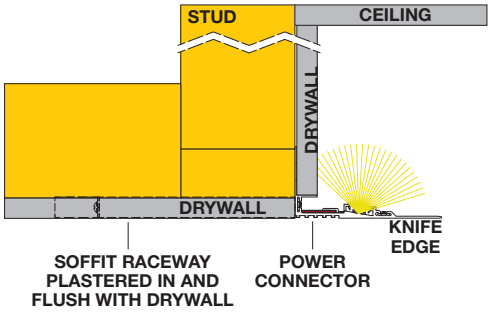
SOFFIT INSTALLATION

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





SIDE VIEW



DIRECTION OF LIGHT

System	Type	Power Feed*	Color Temperature	Finish
KNE	**SF**	**CP**	**RGBTW**	**WH**
KNE Knife Edge Ceiling DIY	**SF** Soffit	**CP** Center Power Feed **EPL** End Power Feed Left **EPR** End Power Feed Right *Power Feed options shown on page 7	**RGBTW** Red, Green, Blue, and Tunable White 1500K-6500K	**WH** White RAL 9010

PROJECT		FIXTURE TYPE		DATE	

KNIFE EDGE CEILING

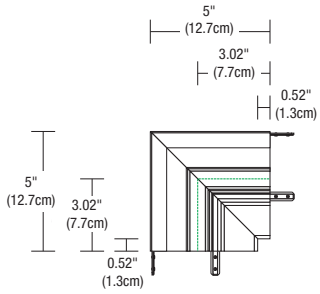
24VDC PLASTER-IN LED SYSTEM, STATIC WHITE

REV 11.18.25

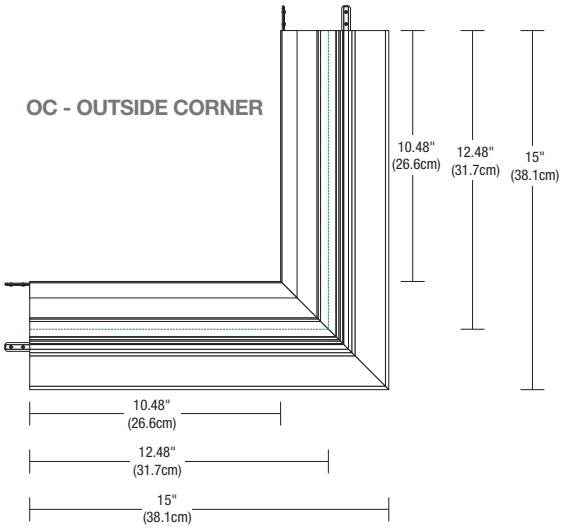
KNIFE EDGE CORNERS

System	Type	Finish
KNE	IC	WH
KNE Knife Edge Ceiling DIY	IC Inside Corner OC Outside Corner	WH White RAL 9010

IC - INSIDE CORNER

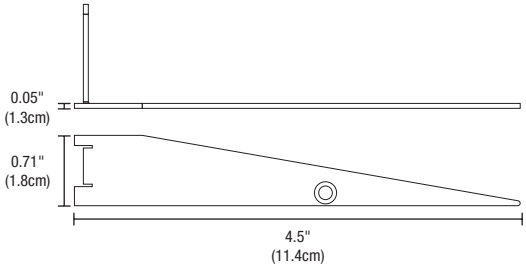


OC - OUTSIDE CORNER



FLAT END CAPS

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



PROJECT		FIXTURE TYPE		DATE	

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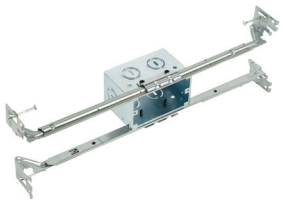
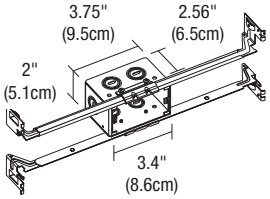
ADDITIONAL PARTS

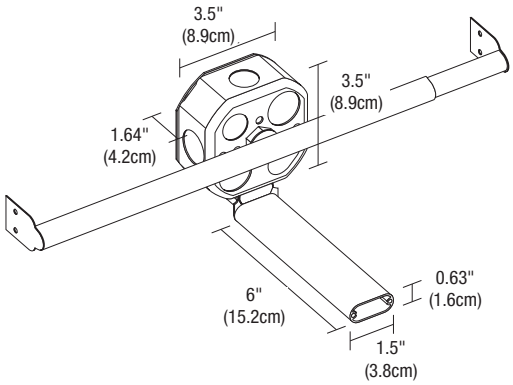




JUNCTION BOX FOR WALL INSTALLATION

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.

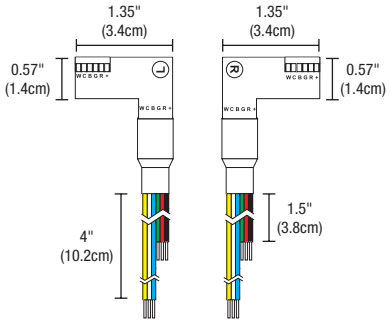
System	Installation	Component
KNE	WL	JBOX
KNE Knife Edge Ceiling	**WL** Wall	**JBOX** Junction Box



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	RGBTW
SS Stomp Strip/Soft Strip	**PFE** Power Feed	**KE-L** Knife Edge Left **KE-R** Knife Edge Right	**RGBTW** Red, Green, Blue, and Tunable White 1500K-6500K

PROJECT		FIXTURE TYPE		DATE	

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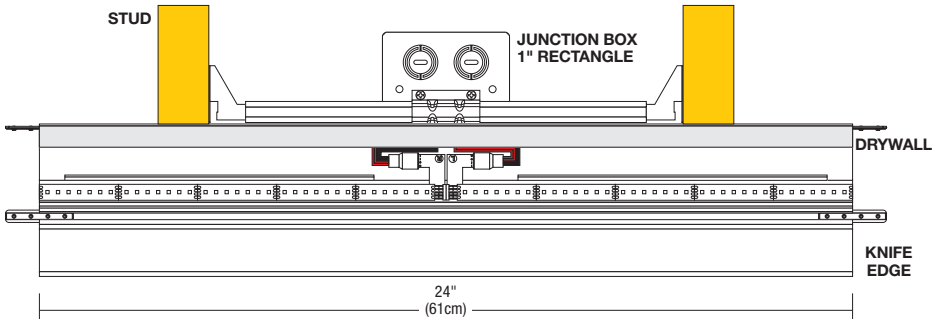
KNIFE EDGE CEILING TRUCOLOR™ RGBTW

24VDC PLASTER-IN LED SYSTEM, 5 CHANNEL CONTROL

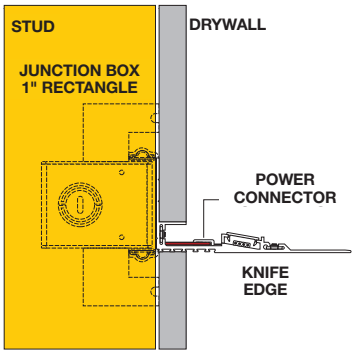
REV 11.18.25

DIMENSIONAL DRAWINGS - WALL INSTALLATION

TOP VIEW

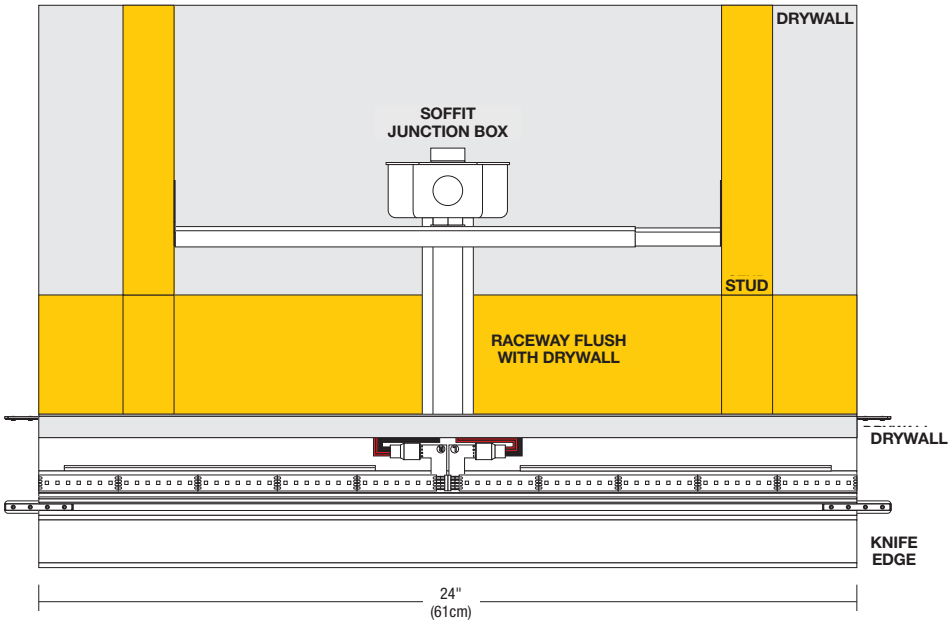


SIDE VIEW

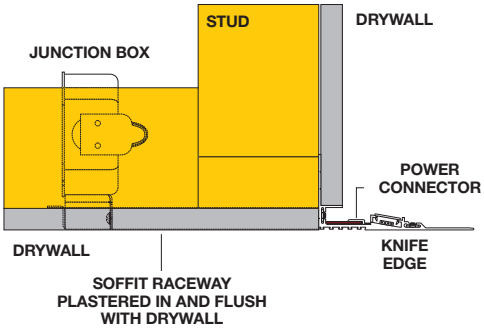


DIMENSIONAL DRAWINGS - SOFFIT INSTALLATION

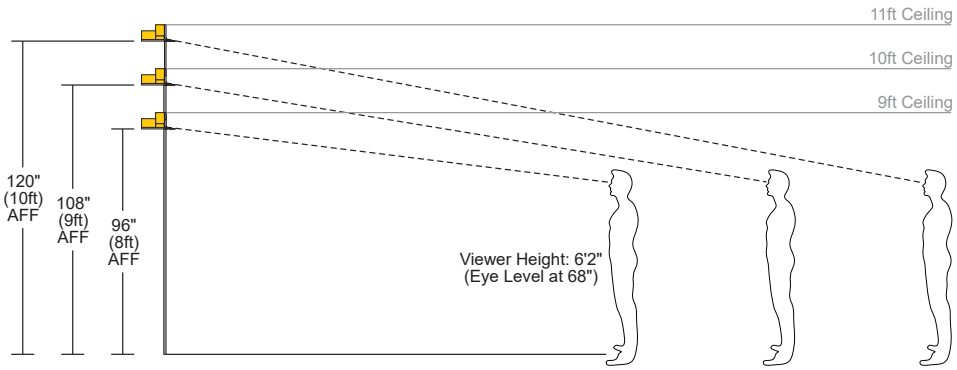
TOP VIEW



SIDE VIEW



SIGHTLINE DISTANCES

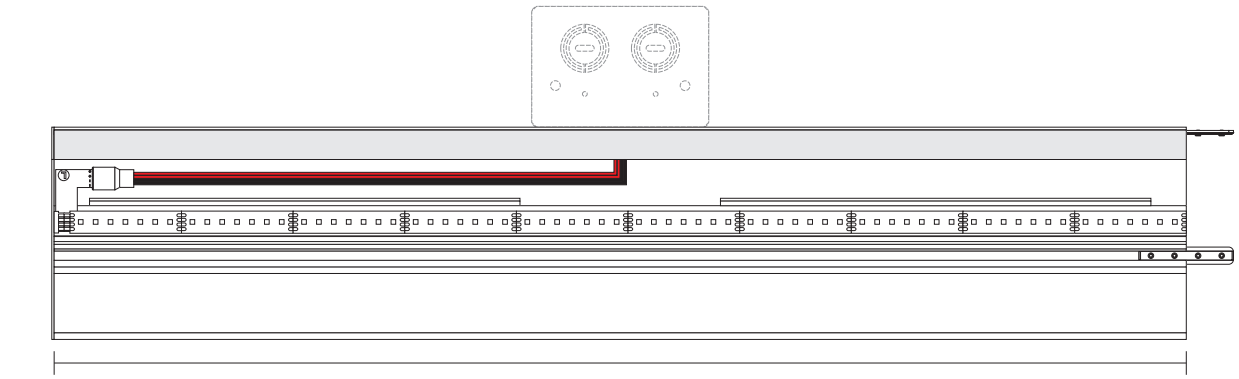


System remains Knife Edge within the indicated distances:

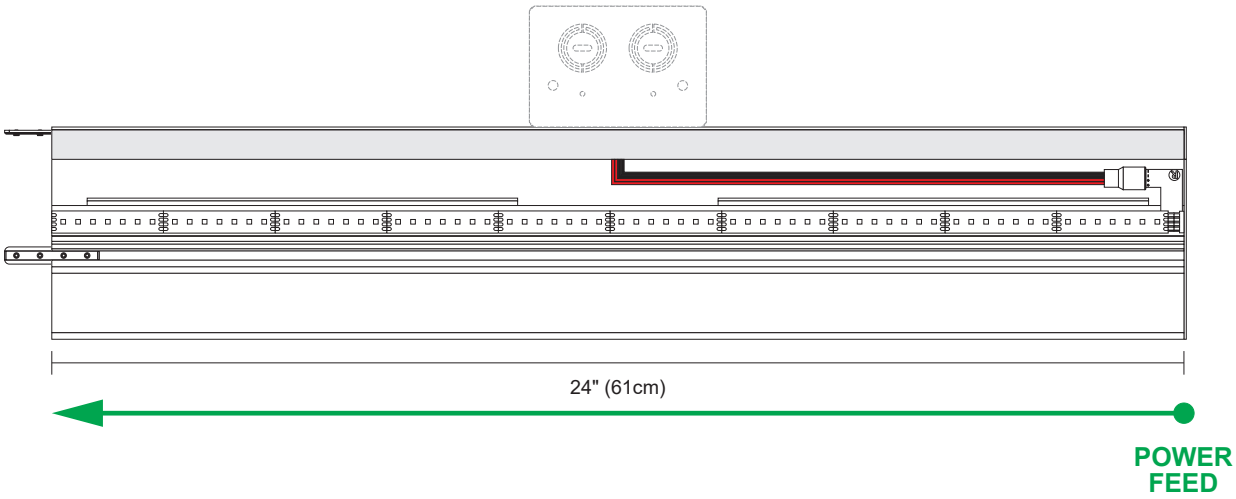
- 180" (15ft) from ceiling edge for 8ft ceiling
- 240" (20ft) from ceiling edge for 10ft ceiling
- 300" (25ft) from ceiling edge for 11ft ceiling

PROJECT		FIXTURE TYPE		DATE	

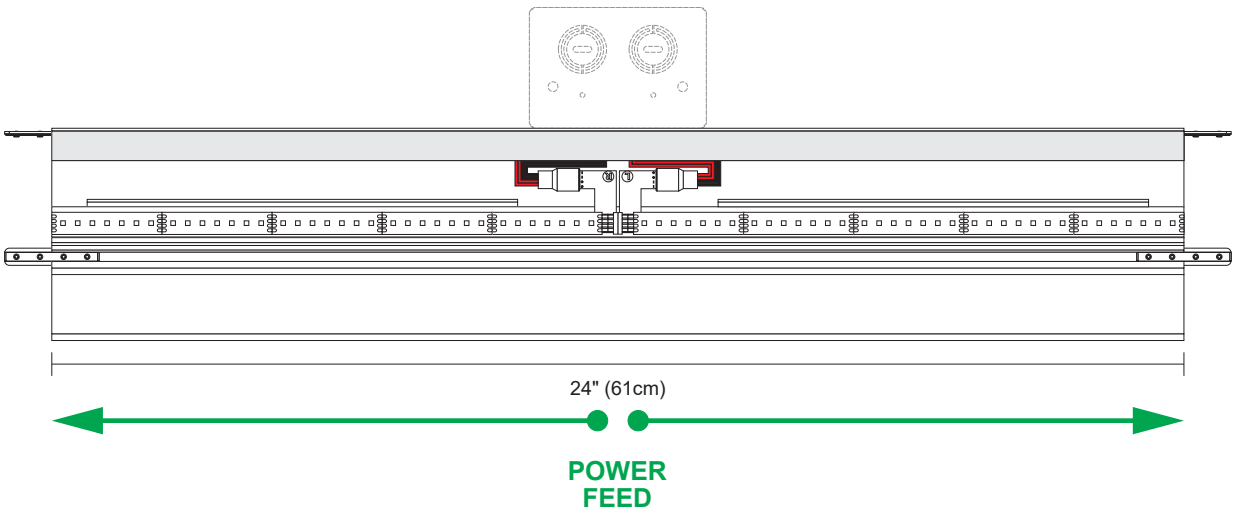
END FEED - LEFT



END FEED - RIGHT



CENTER FEED



PROJECT		FIXTURE TYPE		DATE	

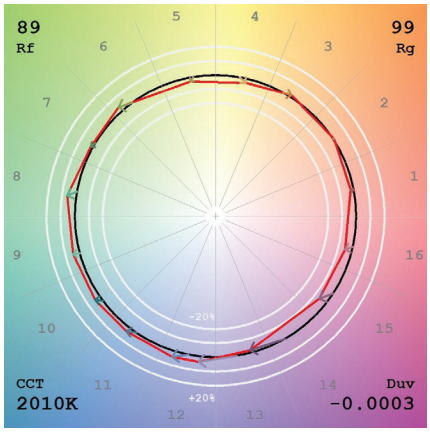
TM30 DATA

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

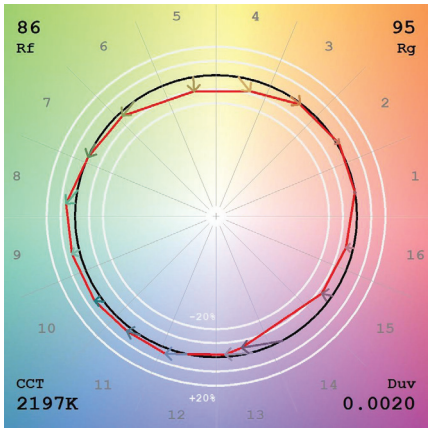
REV 11.18.25

TM-30-15 DATA: The data below is for Pure Smart TruColor™ RGBTW Lamps.

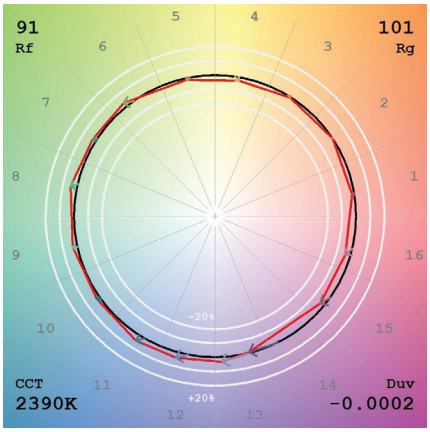
2000K (TruColor™ RGBTW)
View Angle: 2 Deg



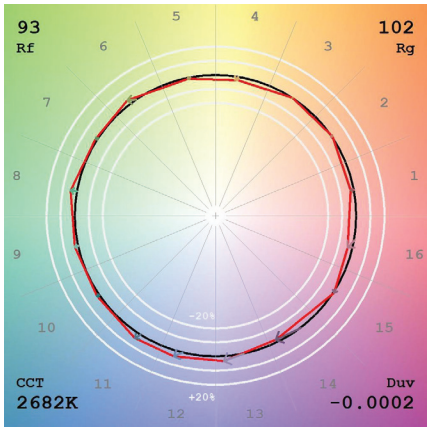
2200K (TruColor™ RGBTW)
View Angle: 2 Deg



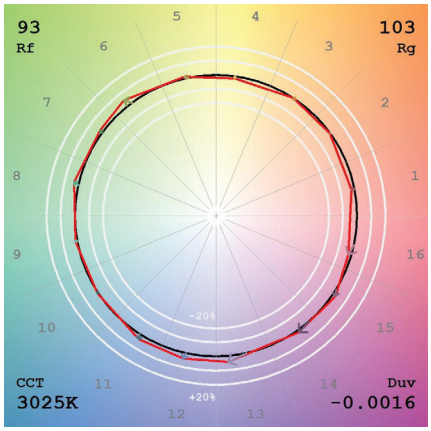
2400K (TruColor™ RGBTW)
View Angle: 2 Deg



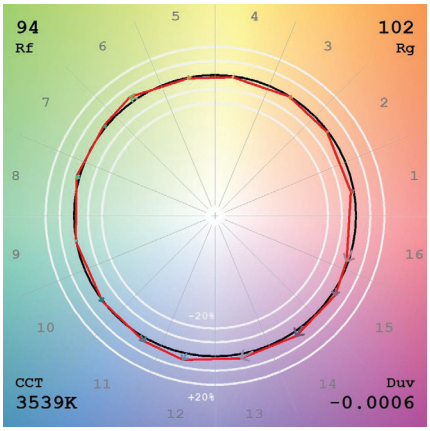
2700K (TruColor™ RGBTW)
View Angle: 2 Deg



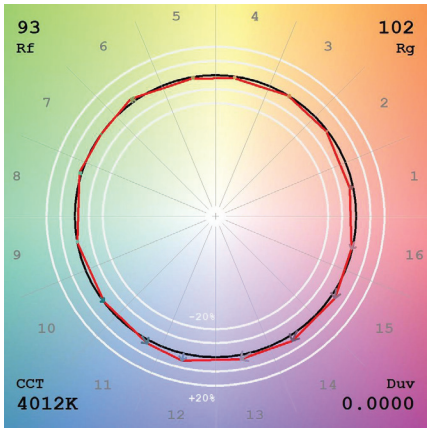
3000K (TruColor™ RGBTW)
View Angle: 2 Deg



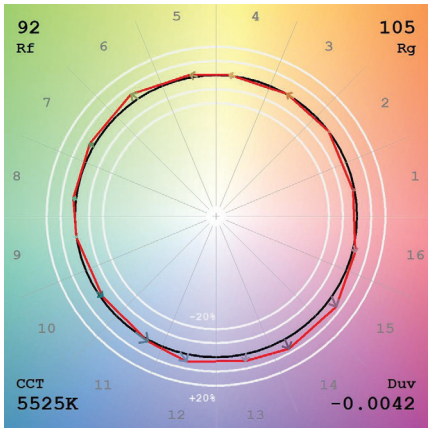
3500K (TruColor™ RGBTW)
View Angle: 2 Deg



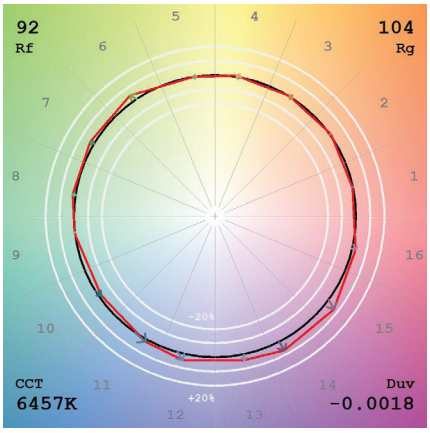
4000K (TruColor™ RGBTW)
View Angle: 2 Deg



5700K (TruColor™ RGBTW)
View Angle: 2 Deg



6500K (TruColor™ RGBTW)
View Angle: 2 Deg



PROJECT		FIXTURE TYPE		DATE	