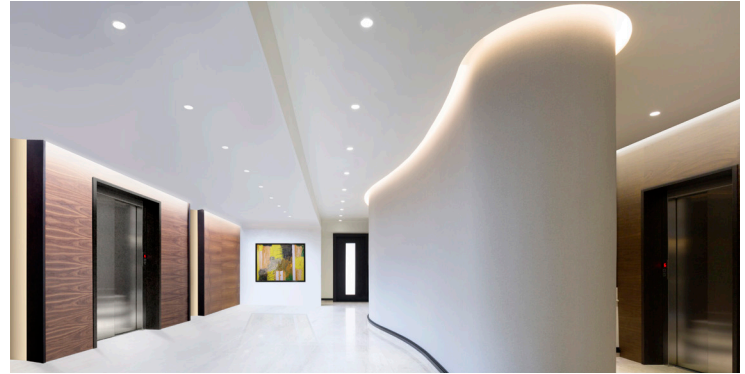
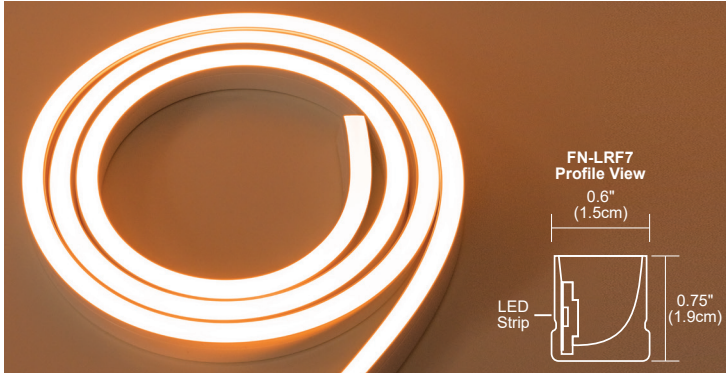


# FLEX NEON LRF7 BENDS LEFT/RIGHT 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE

ASSEMBLED IN AMERICA

REV 05.07.21



## DESCRIPTION

LRF7 Flexible Neon Bends Left to Right with a 0.7" wide Flat lens, producing superior color quality and performance while creating uniform illumination without visible dots. Flex Neon LRF7 can be surface mounted or flush mounted. Choose from 9 different color temperatures ranging from 2000K to 3500K, including two Warm Dim options of 2400K (**24D**) or 2700K (**27D**) and Tunable White (**2K6K**). Tunable White technology grants independent control for adjusting LED color temperature and brightness. Use with two dimmers or, our proprietary Tunable White Controller (**CDMX-1**) for fast and accurate adjustment with three pre-set scenes (Ordered separately). The (**W**) is an IP65 rated wet location fixture featuring watertight barrel connections. The (**S**) Seamless (for continuous, seamless runs), is rated for Indoor Damp Locations ONLY and uses class 2 bare wire connectors. Fixture includes a 5-year pro-rated warranty. Patent pending.

## SPECIFICATIONS

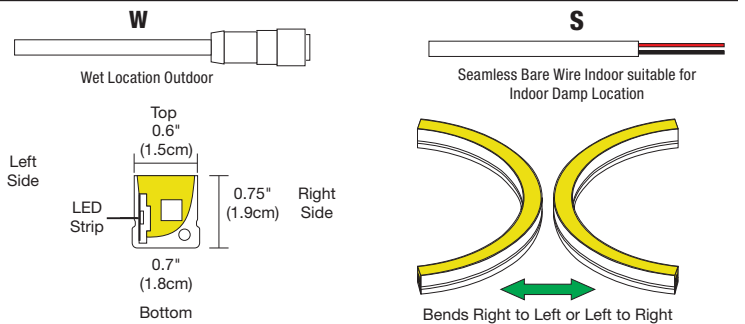
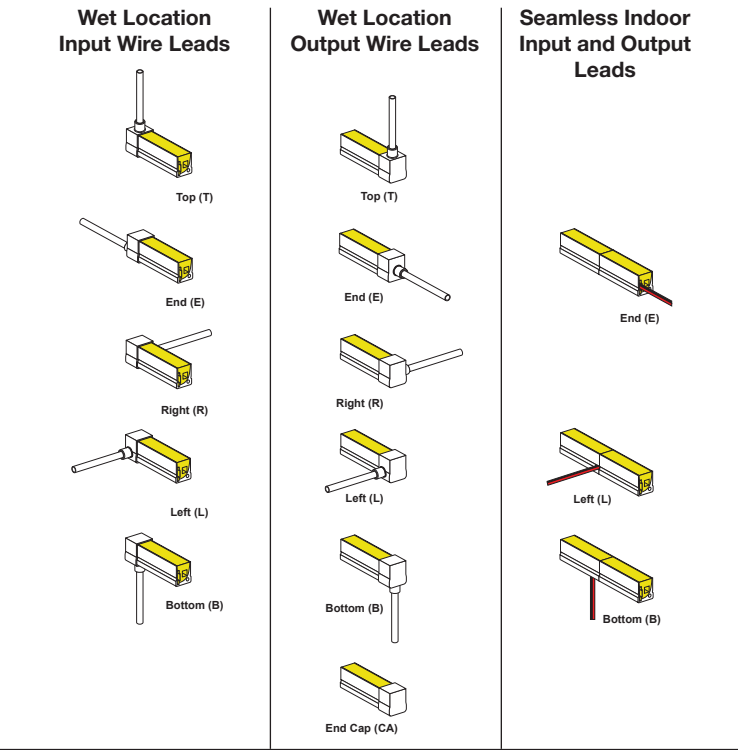
Flat top view	0.7" wide 0.75" high
INPUT	24VDC with 5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	2.5, 4.4 or 7.3 watts per foot
INCREMENTS	2.4" or 3"
MAX LENGTH	2W- 40ft, 5W- 20ft, 7W- 12ft
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring Indoor Applications, Outdoor Wet Location with Water Tight Barrel Connectors IP65 Rated, ETL listed, Title 24

## LUMEN PERFORMANCE AT 3000K 7W PER FOOT (SEE COMPLETE CHART PG 2)

LUMEN OUTPUT	480 lm/ft	EFFICIENCY	66 lm/watt
CRI	94	R9	76
BEAM ANGLE	120°	BEAM TOLERANCE	+/- 30CCT

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

- UNI Driver: Universal Dimming (**TRIAC, ELV, 0-10V**) with corresponding dimmer
- 0-10V
- Lutron Hi-Lume®
- Color Changing (**DMX**)



System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
<b>FN</b>	<b>LRF7</b>	<b>2W</b>	<b>120</b>	<b>27K</b>	<b>E</b>	<b>L</b>	<b>W</b>
FN Flex Neon 24V	LRF7 Left or Right side bend, Flat top view 0.7" x 0.75"	2W 2.5 watts per foot 5W 5 watts per foot 7W 7.5 watts per foot	6-480 (40ft max) 6-240 (20ft max) 6-144 (12ft max)	20K 2000K Candle Light White 22K 2200K Amber White 24K 2400K Very Warm White 24D* 2400K Warm Dim, Dims to 1800K 27K 2700K Incandescent White	27D* 2700K Warm Dim, Dims to 2000K 30K 3000K Warm White 35K 3500K Neutral White 2K6K* Tunable White 2000K-6500K	T* Top Power Input Wire E* End Power Input Wire L Left Power Input Wire R* Right Power Input Wire B Bottom Power Input Wire	T* Top Wire Lead Out E End Wire Lead Out L Left Wire Lead Out R* Right Wire Lead Out B Bottom Wire Lead Out W Outdoor wet location Barrel Connector cable leads

\*Static & Tunable White: 2.4" Increments  
Warm Dim: 3" increments \*5W Only

\*Top and Right wire leads are not available for Seamless indoor

PROJECT	FIXTURE TYPE	DATE
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# FLEX NEON LRF7 BENDS LEFT/RIGHT 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 05.07.21

## Lamp Data: Lamp Data for Flex Neon LRF7

WATTS PER FOOT	FN-LRF7																							
	2W (2.5 watts)								5W (5 watts)								7W (7.5 watts per ft)							
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	20K	22K	24K	24D*	27K	27D*	30K	35K	57K	22K	24K	27K	30K	35K	57K	
LUMENS PER FOOT (lm/ft)	118	133	147	162	177	203	220	234	208	233	259	357	285	390	311	356	412	360	399	439	480	549	636	
LUMENS PER WATT (lm/w)	47	53	59	65	71	81	88	94	47	53	59	74	65	81	71	81	94	49	55	60	66	75	87	
CRI	92	92	92	93	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	

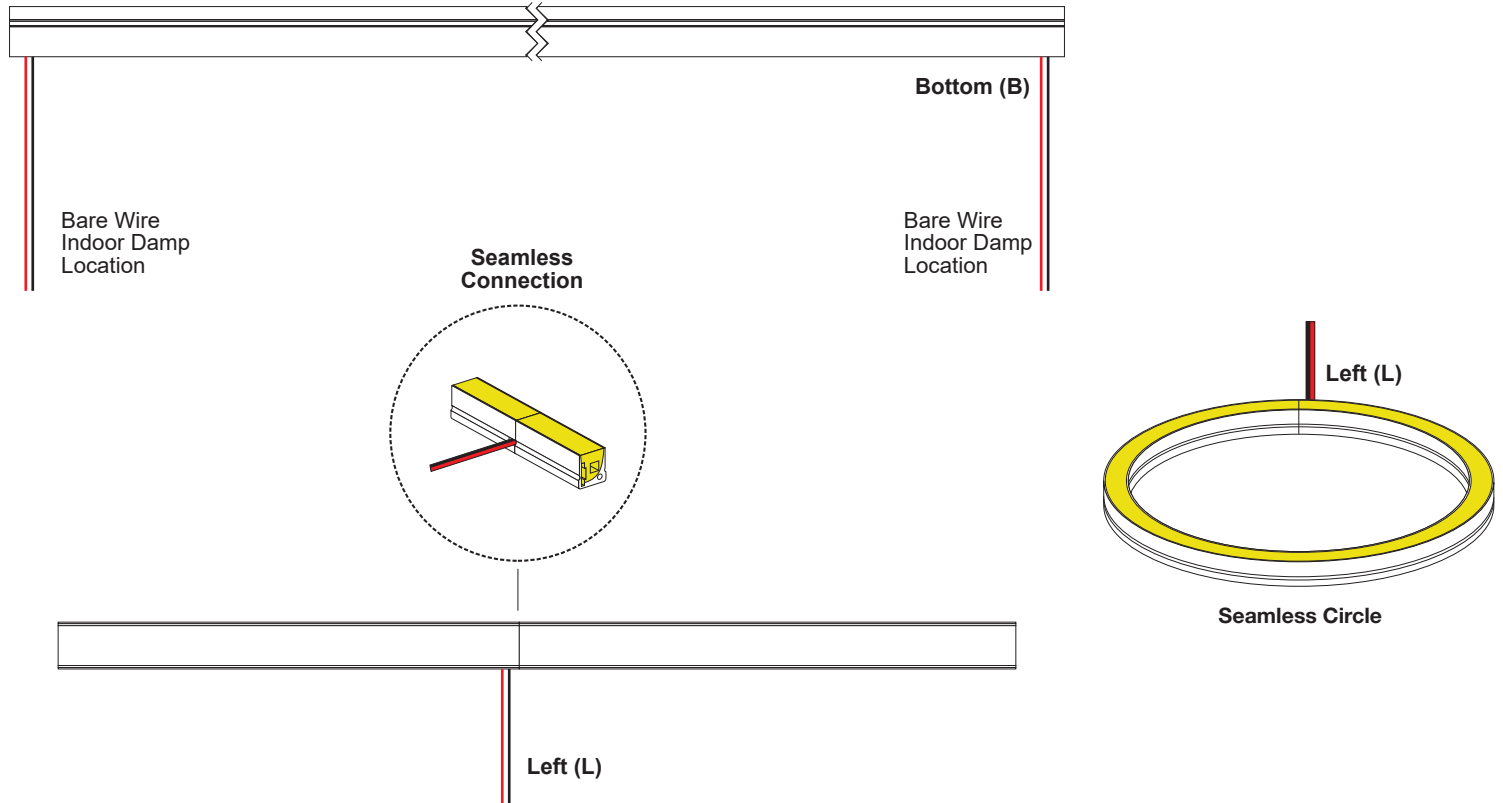
  

WATTS PER FOOT	2K6K*							
	5w							
COLOR TEMPERATURE	20K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	203	226	259	269	279	276	273	272
LUMENS PER WATT (lm/w)	39	42	58	58	59	60	61	62
CRI	92	92	93	92	92	84	84	85

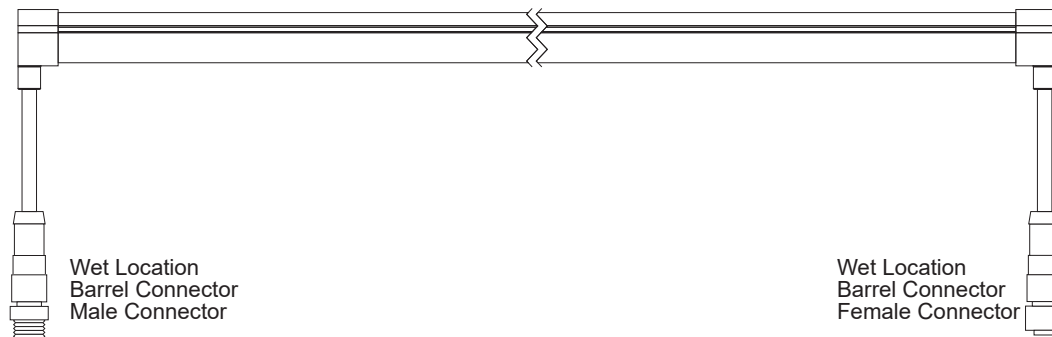
\*Tunable White has a variance in color temperature due to the curvature of the material.

## Drawings: Dimensions for the Flex Neon LRF7

### Seamless (S) Connection Indoor / Damp Rated with No End Cap



### Wet (W) Outdoor Location with End Cap



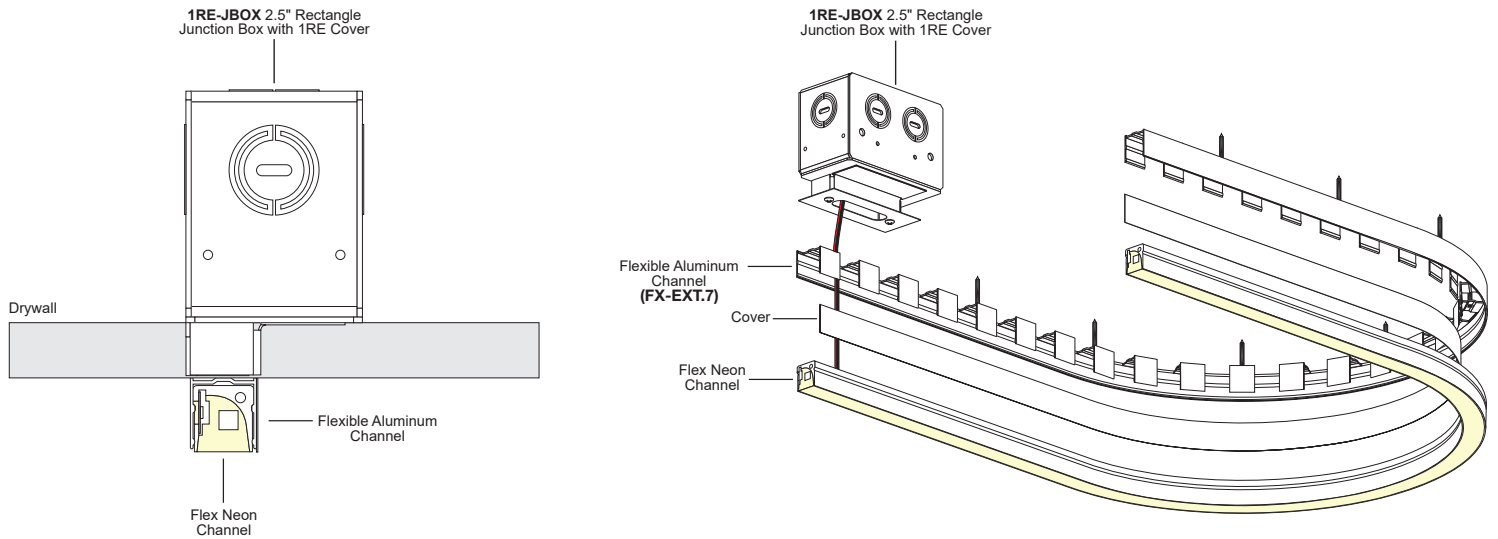
PROJECT	FIXTURE TYPE	DATE
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# FLEX NEON LRF7 BENDS LEFT/RIGHT 0.7" FLAT LENS

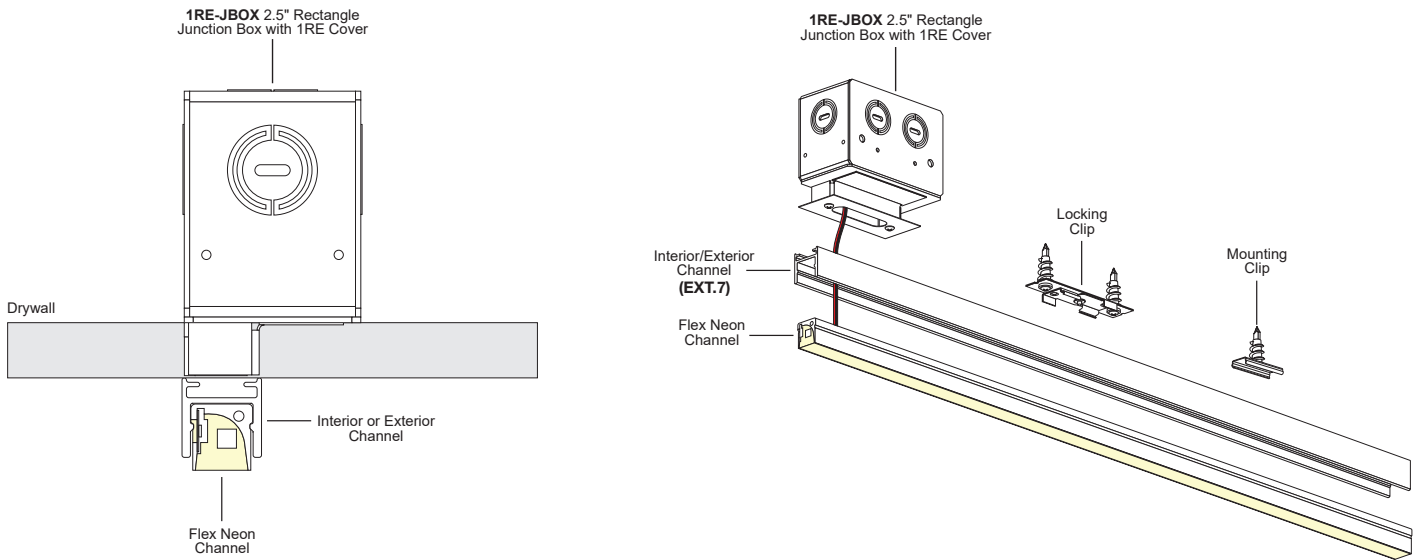
24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 05.07.21

**Drawings:** Exploded View for Flexible Aluminum Channel with 1RE J-box



**Drawings:** Exploded View for Interior/Exterior Channel with 1RE J-box



PROJECT		FIXTURE TYPE		DATE	
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# FLEX NEON LRF7 BENDS LEFT/RIGHT 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 05.07.21

## LENGTH CHART Actual lengths for Flex Neon LRF7

LENGTH CHART - STATIC WHITE									
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.15	99	99.15	195	195.15	291	291.15	387	387.15
5	5.55	101	101.55	197	197.55	293	293.55	389	389.55
8	7.95	104	103.95	200	199.95	296	295.95	392	391.95
10	10.35	106	106.35	202	202.35	298	298.35	394	394.35
12	12.75	108	108.75	204	204.75	300	300.75	396	396.75
15	15.15	111	111.15	207	207.15	303	303.15	399	399.15
17	17.55	113	113.55	209	209.55	305	305.55	401	401.55
20	19.95	116	115.95	212	211.95	308	307.95	404	403.95
22	22.35	118	118.35	214	214.35	310	310.35	406	406.35
24	24.75	120	120.75	216	216.75	312	312.75	408	408.75
27	27.15	123	123.15	219	219.15	315	315.15	411	411.15
29	29.55	125	125.55	221	221.55	317	317.55	413	413.55
32	31.95	128	127.95	224	223.95	320	319.95	416	415.95
34	34.35	130	130.35	226	226.35	322	322.35	418	418.35
36	36.75	132	132.75	228	228.75	324	324.75	420	420.75
39	39.15	135	135.15	231	231.15	327	327.15	423	423.15
41	41.55	137	137.55	233	233.55	329	329.55	425	425.55
44	43.95	140	139.95	236	235.95	332	331.95	428	427.95
46	46.35	142	142.35	238	238.35	334	334.35	430	430.35
48	48.75	144	144.75	240	240.75	336	336.75	432	432.75
51	51.15	147	147.15	243	243.15	339	339.15	435	435.15
53	53.55	149	149.55	245	245.55	341	341.55	437	437.55
56	55.95	152	151.95	248	247.95	344	343.95	440	439.95
58	58.35	154	154.35	250	250.35	346	346.35	442	442.35
60	60.75	156	156.75	252	252.75	348	348.75	444	444.75
63	63.15	159	159.15	255	255.15	351	351.15	447	447.15
65	65.55	161	161.55	257	257.55	353	353.55	449	449.55
68	67.95	164	163.95	260	259.95	356	355.95	452	451.95
70	70.35	166	166.35	262	262.35	358	358.35	454	454.35
72	72.75	168	168.75	264	264.75	360	360.75	456	456.75
75	75.15	171	171.15	267	267.15	363	363.15	459	459.15
77	77.55	173	173.55	269	269.55	365	365.55	461	461.55
80	79.95	176	175.95	272	271.95	368	367.95	464	463.95
82	82.35	178	178.35	274	274.35	370	370.35	466	466.35
84	84.75	180	180.75	276	276.75	372	372.75	468	468.75
87	87.15	183	183.15	279	279.15	375	375.15	471	471.15
89	89.55	185	185.55	281	281.55	377	377.55	473	473.55
92	91.95	188	187.95	284	283.95	380	379.95	476	475.95
94	94.35	190	190.35	286	286.35	382	382.35	478	478.35
96	96.75	192	192.75	288	288.75	384	384.75	480	480.75

PROJECT		FIXTURE TYPE		DATE	
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# FLEX NEON LRF7 BENDS LEFT/RIGHT 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 05.07.21

## LENGTH CHART Actual lengths for Flex Neon LRF7

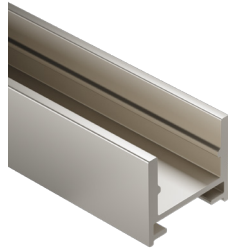
### LENGTH CHART - WARM DIM

Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length
3	3.75	123	123.75	243	243.75	363	363.75
6	6.75	126	126.75	246	246.75	366	366.75
9	9.75	129	129.75	249	249.75	369	369.75
12	12.75	132	132.75	252	252.75	372	372.75
15	15.75	135	135.75	255	255.75	375	375.75
18	18.75	138	138.75	258	258.75	378	378.75
21	21.75	141	141.75	261	261.75	381	381.75
24	24.75	144	144.75	264	264.75	384	384.75
27	27.75	147	147.75	267	267.75	387	387.75
30	30.75	150	150.75	270	270.75	390	390.75
33	33.75	153	153.75	273	273.75	393	393.75
36	36.75	156	156.75	276	276.75	396	396.75
39	39.75	159	159.75	279	279.75	399	399.75
42	42.75	162	162.75	282	282.75	402	402.75
45	45.75	165	165.75	285	285.75	405	405.75
48	48.75	168	168.75	288	288.75	408	408.75
51	51.75	171	171.75	291	291.75	411	411.75
54	54.75	174	174.75	294	294.75	414	414.75
57	57.75	177	177.75	297	297.75	417	417.75
60	60.75	180	180.75	300	300.75	420	420.75
63	63.75	183	183.75	303	303.75	423	423.75
66	66.75	186	186.75	306	306.75	426	426.75
69	69.75	189	189.75	309	309.75	429	429.75
72	72.75	192	192.75	312	312.75	432	432.75
75	75.75	195	195.75	315	315.75	435	435.75
78	78.75	198	198.75	318	318.75	438	438.75
81	81.75	201	201.75	321	321.75	441	441.75
84	84.75	204	204.75	324	324.75	444	444.75
87	87.75	207	207.75	327	327.75	447	447.75
90	90.75	210	210.75	330	330.75	450	450.75
93	93.75	213	213.75	333	333.75	453	453.75
96	96.75	216	216.75	336	336.75	456	456.75
99	99.75	219	219.75	339	339.75	459	459.75
102	102.75	222	222.75	342	342.75	462	462.75
105	105.75	225	225.75	345	345.75	465	465.75
108	108.75	228	228.75	348	348.75	468	468.75
111	111.75	231	231.75	351	351.75	471	471.75
114	114.75	234	234.75	354	354.75	474	474.75
117	117.75	237	237.75	357	357.75	477	477.75
120	120.75	240	240.75	360	360.75	480	480.75

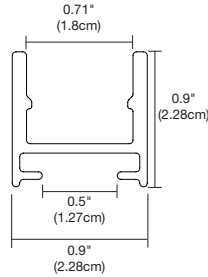
PROJECT		FIXTURE TYPE		DATE	
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## INTERIOR OR EXTERIOR CHANNEL

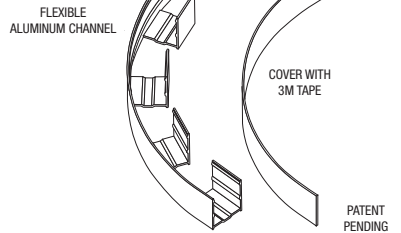
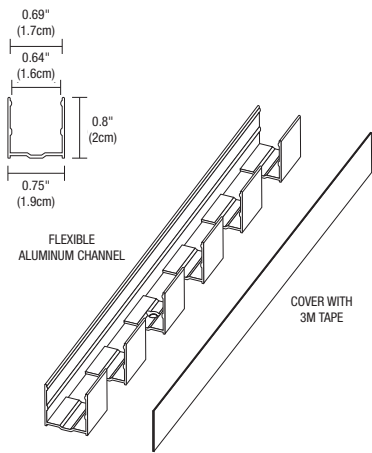
Interior or exterior channel features an aluminum extrusion with mounting clips included every 2ft. Available in length up to 10ft long and may be cut at the job site.



EXT.7 Light Channel



Product	Length	Finish
<b>EXT.7</b>	<b>10FT</b>	<b>SA</b>
EXT.7 Extrusion 0.7" Wide	4FT 4 Feet 5FT 5 Feet 8FT 8 Feet 10FT 10 Feet	SA Satin Aluminum WH White



## FLEXIBLE ALUMINUM CHANNEL

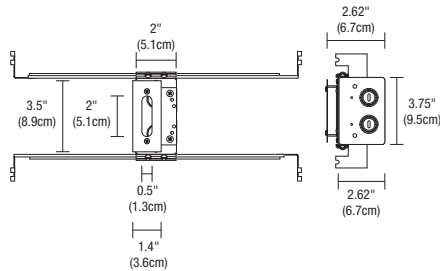
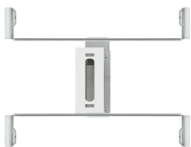
Flexible aluminum channel is designed to work specifically with Flex Neon for practical and professional mounting. The channel can make large radius 90° turns, perfect circles and sweeping bends that follow the form of architectural details, soffits, signage and more - consider using this channel to guide your linear LED lighting design. Patent Pending.

Product	Length	Finish
<b>FX-EXT.7</b>	<b>4FT</b>	<b>WH</b>
FX-EXT.7 Flexible Extrusion 0.7" Wide	4FT 4 Feet	BK Black WH White

## 1" RECTANGLE CANOPY & J-BOX\*

The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.

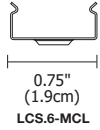
\*Only to be used with Seamless Indoor Bottom Lead-In and Out



Canopy	Product
<b>1RE</b>	<b>JBOX</b>
1RE 1" Rectangle	JBOX Junction Box



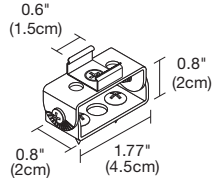
LCS.6-MCL



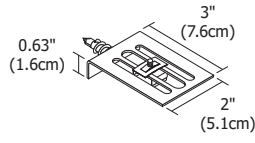
LCS.6-MCL



LCS.6-MCL-075



LCS.6-MCL-075



LCS.6-MCL-90

## MOUNTING CLIPS

LCS.6 mounting clips are provided with every 12" of Flex Neon and may be ordered separately as replacement parts. The LCS.6-MCL-075 rotates Channel up to 75°. LCS.6-MCL-90 mounts Channel at a 90° angle.

System	Product	Type
<b>LCS.6</b>	<b>MCL</b>	<b>075</b>
LCS.6 Flex Neon Left Right 0.6"	MCL Mounting Clip	Standard, Leave Blank
		<b>075</b> Adjust 0-75°
		<b>90</b> Mounts at 90°

## FLEX NEON TIE STRAP

Use for mounting to poles for extra support, every 6"-12" (30 per package).



Product	Type
<b>SS</b>	<b>ST</b>
SS LED Flex Neon	ST Tie Strap

## DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

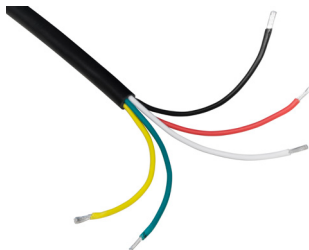
Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



Product	Gauge	Cable
<b>DB</b>	<b>12G</b>	<b>2C</b>
DB Direct Burial	12G 12 Gauge	2C 2 Conductor

## WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



Product	Gauge	Cable
<b>OC</b>	<b>14G</b>	<b>5C</b>
OC Outdoor Cable	14G 14 Gauge	5C 5 Conductor

PROJECT	FIXTURE TYPE	DATE
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# FLEX NEON OUTDOOR ACCESSORIES AND J-BOXES

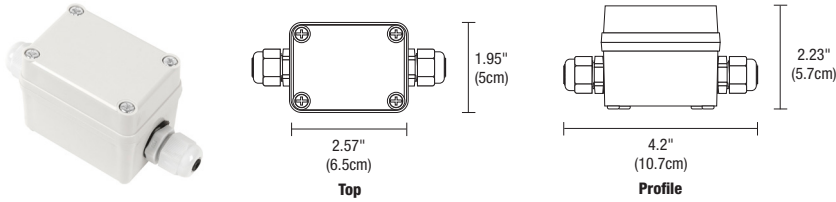
24VDC INDOOR / OUTDOOR 2.5W | 5W | 7.5W STATIC WHITE, WARM DIM & TUNABLE WHITE



REV 05.07.21

## WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



Product	Type	Option
<b>2RE</b>	<b>JBOX</b>	<b>W</b>
2RE 2" Rectangle	JBOX Junction Box	W Wet Location

## WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

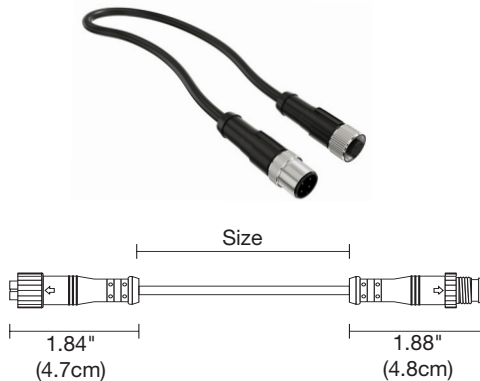
This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.



Product	Canopy	Product	Size	Option
<b>SS</b>	<b>2RE</b>	<b>JBOX</b>	<b>6IN</b>	<b>W</b>
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Four Wire Connection	W Wet Location

## POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.



Product	Type	Size	Option
<b>SS</b>	<b>CFX</b>	<b>12IN</b>	<b>W</b>
SS Soft Strip and Flex Neon	CFX Flexible 4 Wire Connector	12IN 12" 96IN 96"	W Wet Location

## WET LOCATION T-CONNECTOR

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.



Product	Type	Option
<b>SS</b>	<b>TC</b>	<b>W</b>
SS Soft Strip and Flex Neon	TC T-Connector 4 Wire	W Wet Location



### 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-25W-010-24VDC	PSB-60W-010-24VDC	PSB-96W-010-24VDC
SPECIFICATIONS			
MAXIMUM LOAD	25W	60W	96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-25W-010-24VDC-TB	PSB-60W-010-24VDC-TB	PSB-96W-010-24VDC-TB
IN-WALL MOUNTING	PSB-25W-010-24VDC-IW	PSB-60W-010-24VDC-IW	PSB-96W-010-24VDC-IW

### 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS

ORDERING CODE	PSB-2X96W-010-24VDC	PSB-3X96W-010-24VDC	PSB-4X96W-010-24VDC
SPECIFICATION			
MAXIMUM LOAD	2X96W	3X96W	4X96W
INPUT VOLTAGE	120-277VAC	120-277VAC	120-277VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
T-BAR MOUNTING	PSB-2X96W-010-24VDC-TB	PSB-3X96W-010-24VDC-TB	PSB-4X96W-010-24VDC-TB
IN-WALL MOUNTING	PSB-2X96W-010-24VDC-IW	N/A	N/A

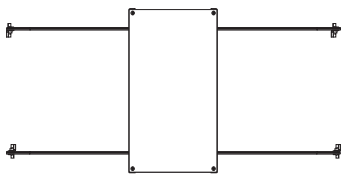
### DIMMING & CONTROLS

PHILIPS SUNRISE: SR1200ZTUNV	•	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•	•
LUTRON RADIO RA2: RRD-10ND	•	•	•
LEVITON: LEV40050	•	•	•
LEVITON IP710-LFZ	•	•	•
LEGRAND: ADPD4FBL3P2W4	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

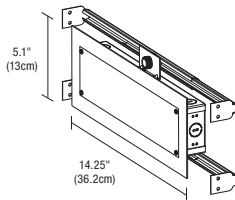
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 90

\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



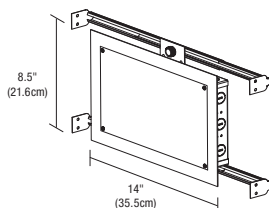
**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes:**  
 PSB-25W-010-24VDC-TB,  
 PSB-60W-010-24VDC-TB,  
 PSB-96W-010-24VDC-TB,  
 PSB-2X96W-010-24VDC-TB  
 PSB-3X96W-010-24VDC-TB  
 PSB-4X96W-010-24VDC-TB



**5.1" x 14.25" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-25W-010-24VDC-IW, PSB-60W-010-24VDC-IW, PSB-96W-010-24VDC-IW



**8.5" x 14" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-2X96W-010-24VDC-IW

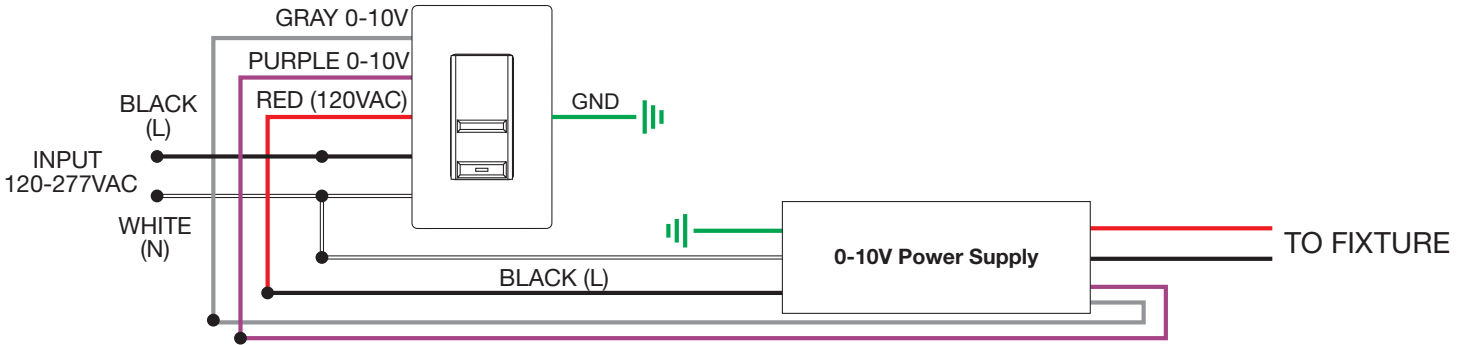
PROJECT	FIXTURE TYPE	DATE
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**SAMPLE WIRING DIAGRAMS 24VDC 010**

**Application:** 0-10V Dimming Applications For Static White and Warm Dim

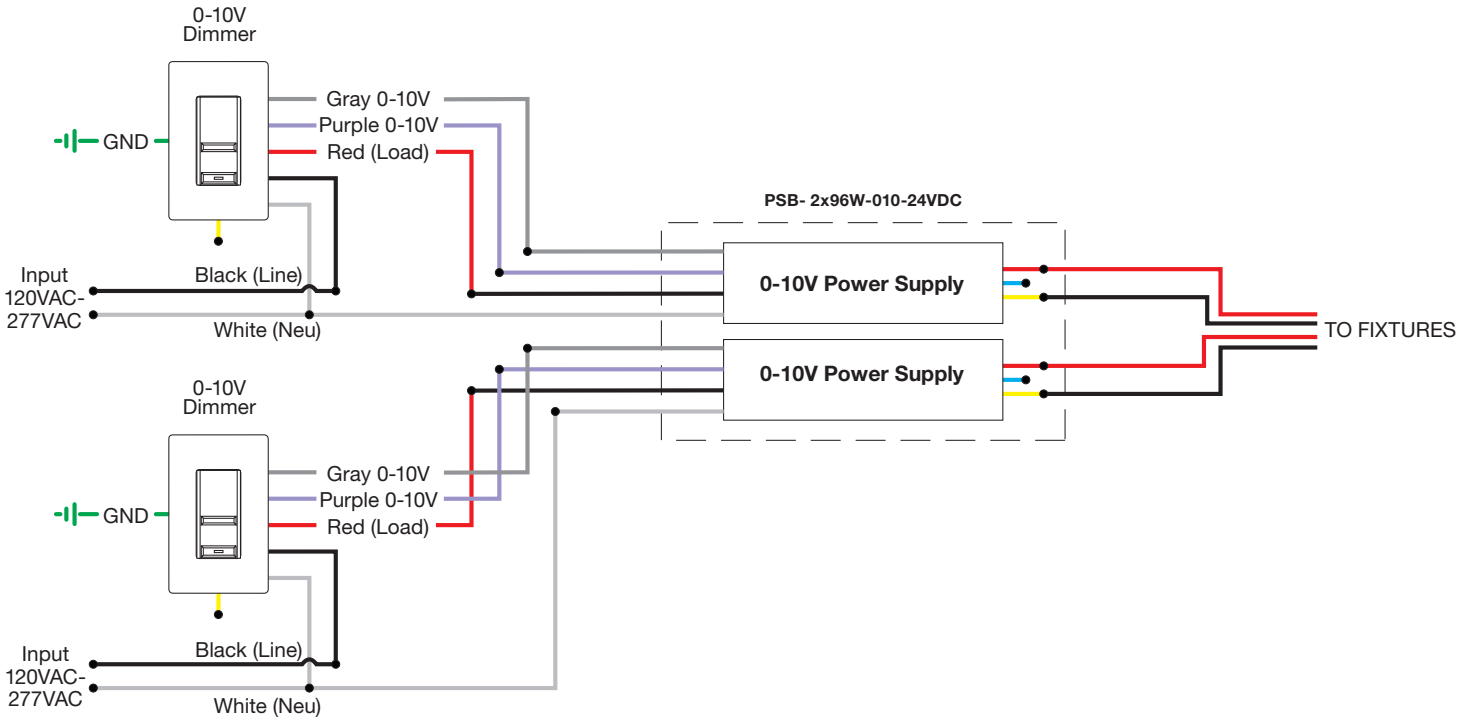
**Dimming:** Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, \*IP710-DLZ \*(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

**0-10V DIMMER**



**Application:** Dual 0-10V dimming for Static White

**Dimming:** Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, \*IP710-DLZ \*(Built in LED locator light), Legrand Dimmer: ADPD4FBL3P2W4, Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)



PROJECT		FIXTURE TYPE		DATE	
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# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

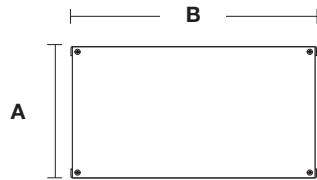
24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

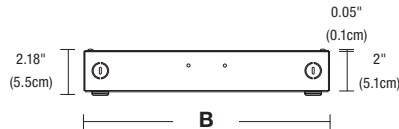
REV 05.07.21



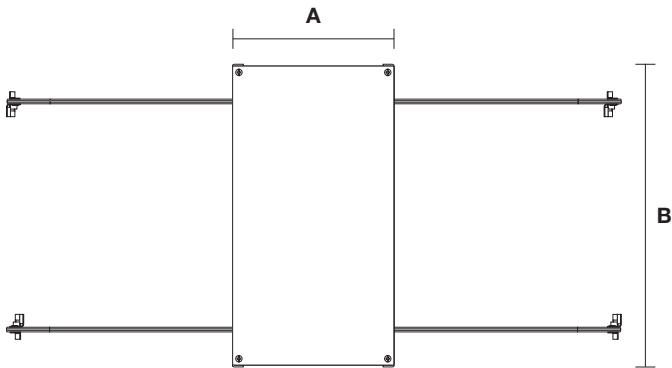
PSB-96W-010-24VDC-2XK



TOP VIEW



SIDE VIEW



PSB-96W-010-24VDC-2XK-TB  
(T-BAR GRID CEILING)

STANDARD & T-BAR DIMENSIONS		
	A	B
PSB-96W-010-24VDC-2XK	6.48"	12.15"
PSB-2X96W-010-24VDC-2XK	10"	14"
PSB-3X96W-010-24VDC-2XK	13"	17"
PSB-4X96W-010-24VDC-2XK	13"	17"

## DESCRIPTION

Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers. T-Bar Mounting Kit includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors. Power Supply features short circuit, overload and over temperature protection.

## APPLICATIONS

Indoor, Damp Location

## MOUNTING

Surface mounted with conduit access

## POWER INPUT

120-277VAC

## POWER OUTPUT

Class 2; 24 volts DC 4A, up to 96 watts maximum

## EFFICIENCY

90%

## AMBIENT OPERATING TEMPERATURE

-25° C to 40° C

## DIMMING

#1 Controls the intensity. #2 Controls the Color Temperature. 0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

## DIMMING CURVE

Linear, Logarithmic 100% - 0% (HydraDrive)

## COMPLIANCE

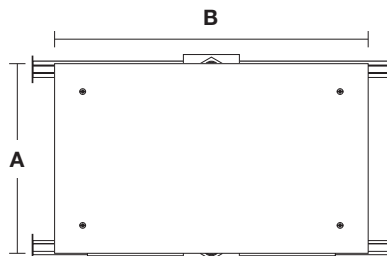
Made in the USA, UL, CE, Title 28, Plenum for use in Accordance with UL 2043. JA8 compliant when used with Pure Edge Tunable White Products.

Product	Wattage	Dimming	Voltage	Color Temperature	Options
<b>PSB</b>	<b>96W</b>	<b>010</b>	<b>24VDC</b>	<b>2XK</b>	<b>STANDARD</b> (Leave Blank)
<b>PSB</b> Power Supply with Enclosure Box with Tunable White 0-10V Controller	<b>96W</b> 96 Watts <b>2X96W</b> 2x96 Watts <b>3X96W</b> 3x96 Watts <b>4X96W</b> 4x96 Watts	<b>010</b> 0-10 Volt Dimming	<b>24VDC</b> 24 Volt DC	<b>2XK</b> Tunable White	<b>TB</b> T-Bar Grid Ceiling <b>IW*</b> In-Wall Kit

\*96 watts only



PSB-96W-010-24VDC-2XK-IW



PSB-96W-010-24VDC-2XK-IW (IN WALL KIT)

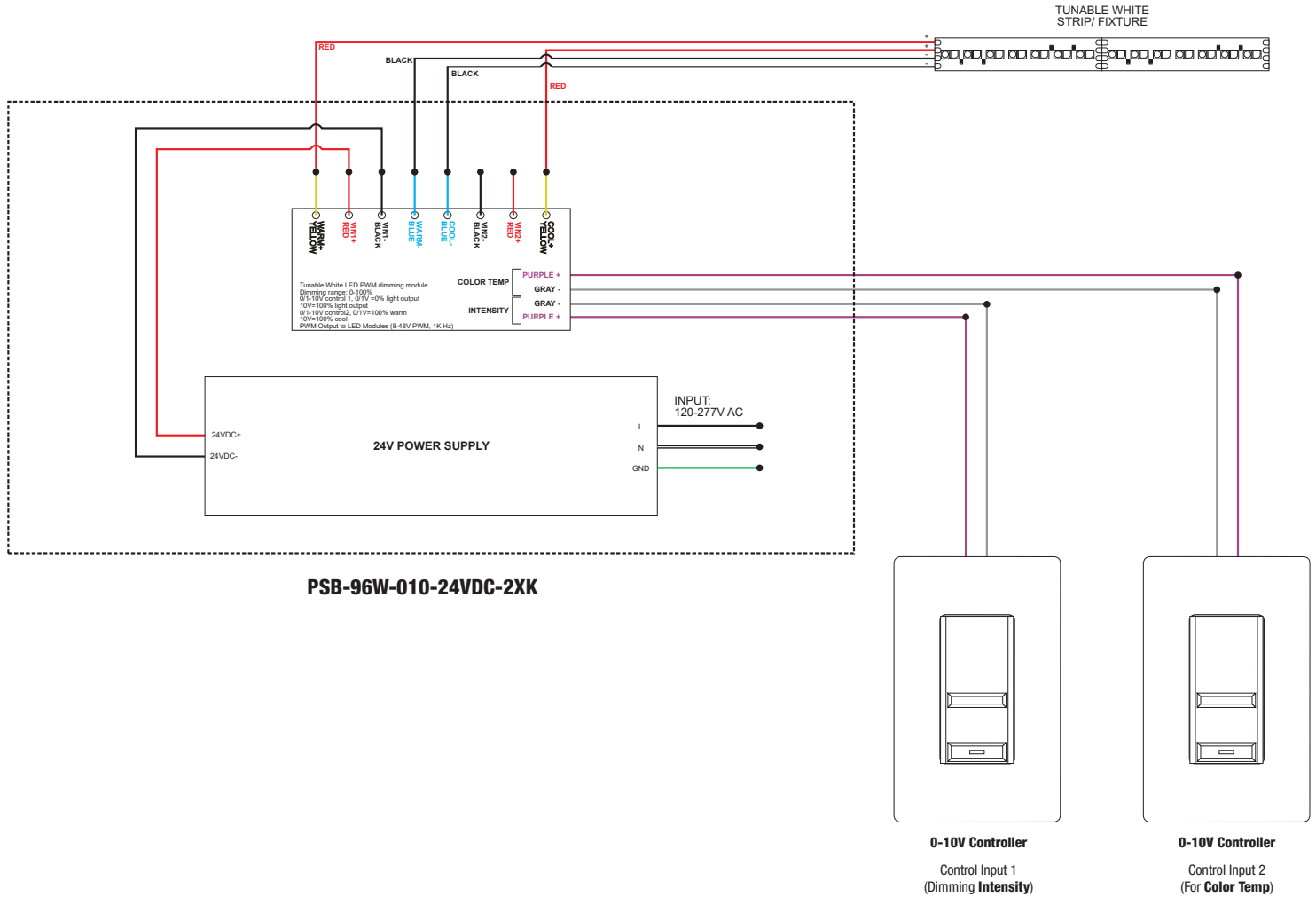
IN-WALL DIMENSIONS		
	A	B
PSB-96W-010-24VDC-2XK-IW	8.5"	14.25"

PROJECT		FIXTURE TYPE		DATE	
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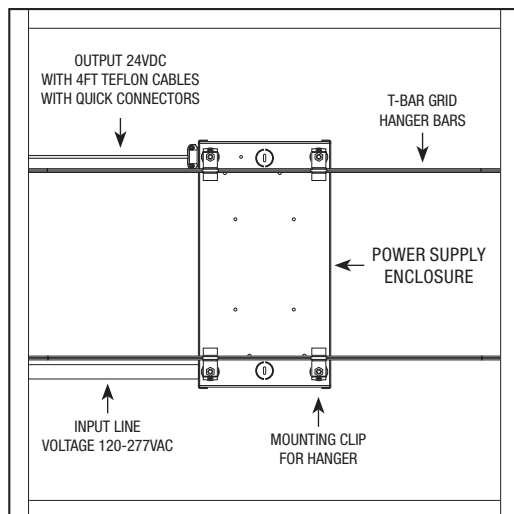
# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

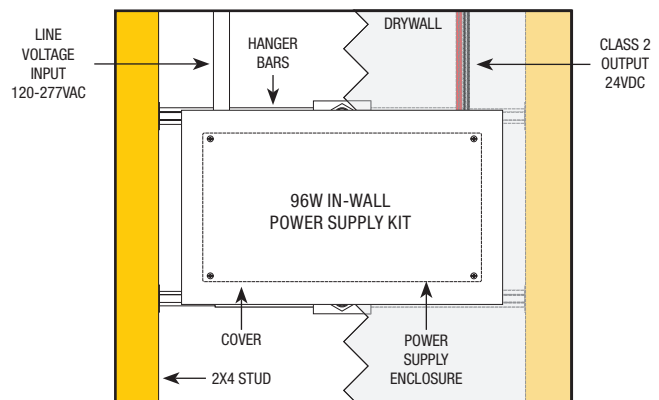
**Application:** 0-10V dimming for Tunable White LED Strip/Fixture










### T-BAR GRID CEILING



### IN WALL KIT



PROJECT	FIXTURE TYPE	DATE
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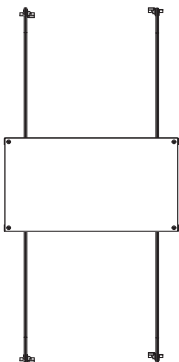
ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS <sup>†‡</sup>				
<b>ORDERING CODES</b>	<b>PS-60L-ELV-24VDC</b> 	<b>PSB-60W-ELV-24VDC</b> 	<b>PSB-2X60W-ELV-24VDC</b> 	<b>PSB-100W-ELV-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	60W NON-IC, 50W-IC (FITS IN JBOX)	60W	2X60W	96W
<b>INPUT VOLTAGE</b>	120VAC	120VAC	120VAC	120VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	2.25" X 1.25" X 0.83"	8.125" X 2" X 1.75"	12.15" X 6.48" X 2.18"	9.25" X 3.5" X 2"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	N/A	<b>PSB-60W-ELV-24VDC-TB</b>	<b>PSB-2X60W-ELV-24VDC-TB</b>	<b>PSB-100W-ELV-24VDC-TB</b>
<b>IN WALL MOUNTING</b>	N/A	<b>PSB-60W-ELV-24VDC-IW</b>	<b>PSB-2X60W-ELV-24VDC-IW</b>	<b>PSB-100W-ELV-24VDC-IW</b>
ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS <sup>†‡</sup>				
<b>ORDERING CODES</b>	<b>PSB-2X100W-ELV-24VDC</b> 	<b>PSB-3X100W-ELV-24VDC</b> 	<b>PSB-4X100W-ELV-24VDC</b> 	
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	2X96W	3X96W	4X96W	
<b>INPUT VOLTAGE</b>	120VAC	120VAC	120VAC	
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	
<b>DIMENSIONS</b>	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"	
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	
<b>T-BAR MOUNTING</b>	<b>PSB-2X100W-ELV-24VDC-TB</b>	<b>PSB-3X100W-ELV-24VDC-TB</b>	<b>PSB-4X100W-ELV-24VDC-TB</b>	
<b>IN WALL MOUNTING</b>	<b>PSB-2X100W-ELV-24VDC-IW</b>	N/A	N/A	
<b>DIMMING AND CONTROLS</b>				
<b>LUTRON DIVA: DVELV-300P</b>	•	•	•	
<b>LUTRON SKYLARK: SELV-300P</b>	•	•	•	
<b>LUTRON RADIO RA2: RRD-6NA</b>	•	•	•	
<b>LUTRON MAESTRO: MAELV-600</b>	•	•	•	
<b>LEGRAND ADORNE: ADTP-703TUM4</b>	•	•	•	

<sup>†</sup>22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies. Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

<sup>‡</sup>Electrical Panels using Siemens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

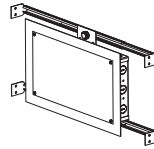
With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies

\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



**T-Bar Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes :** PSB-60W-ELV-24VDC-TB  
PSB-100W-ELV-24VDC-TB  
PSB-2X60W-ELV-24VDC-TB  
PSB-2X100W-ELV-24VDC-TB  
PSB-3X100W-ELV-24VDC-TB  
PSB-4X100W-ELV-24VDC-TB



**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

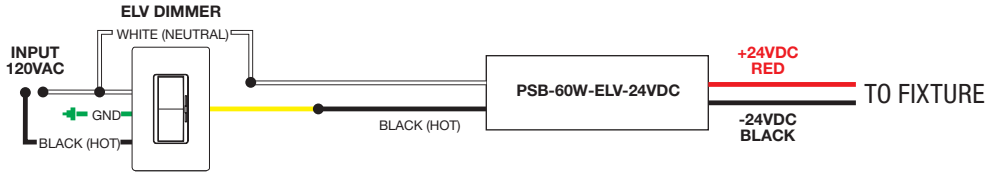
**Ordering Codes 5.1" x 14.25":** PSB-60W-ELV-24VDC-IW  
PSB-100W-ELV-24VDC-IW  
**Ordering Codes 8.5" x 14.25":** PSB-2X60W-ELV-24VDC-IW  
PSB-2X100W-ELV-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	
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**SAMPLE WIRING DIAGRAMS 24VDC ELV**

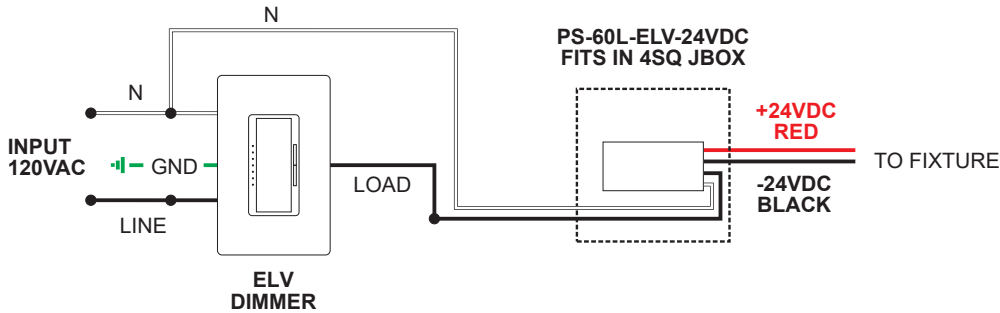
**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



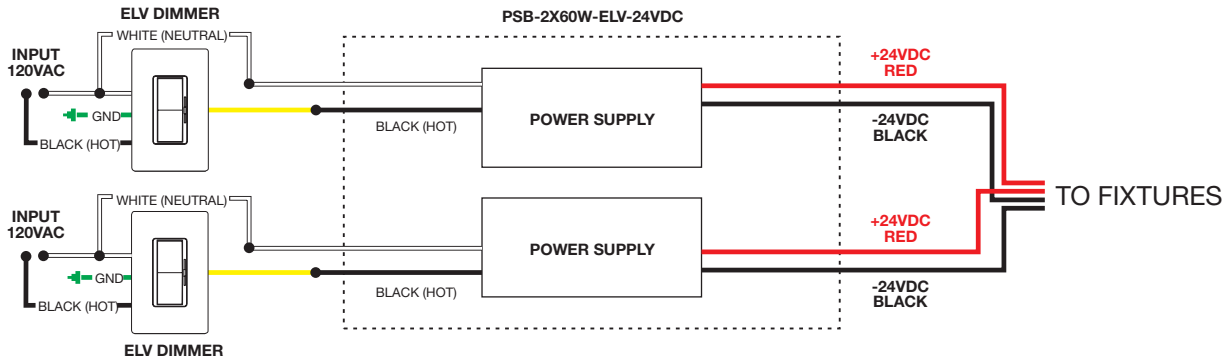
**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



**Application:** Dual ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



PROJECT		FIXTURE TYPE		DATE	
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# OUTDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

24VDC, UNI - UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V WET LOCATION

REV 05.07.21



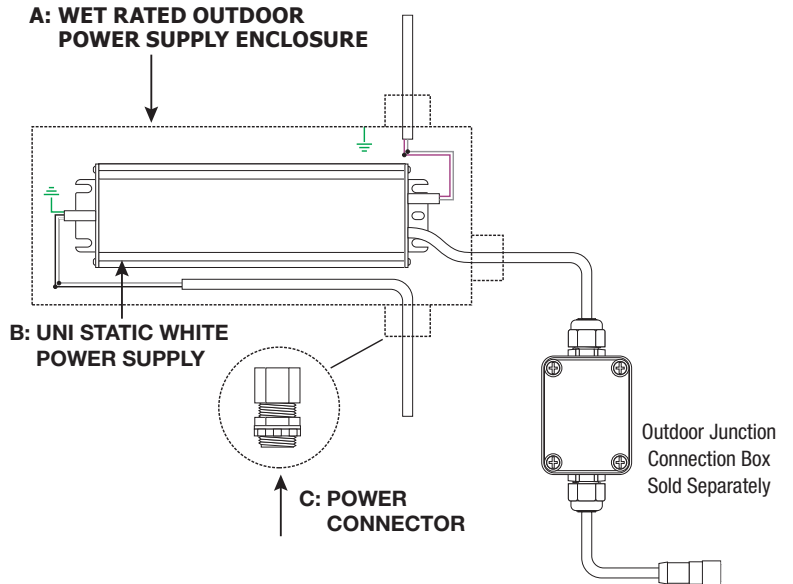
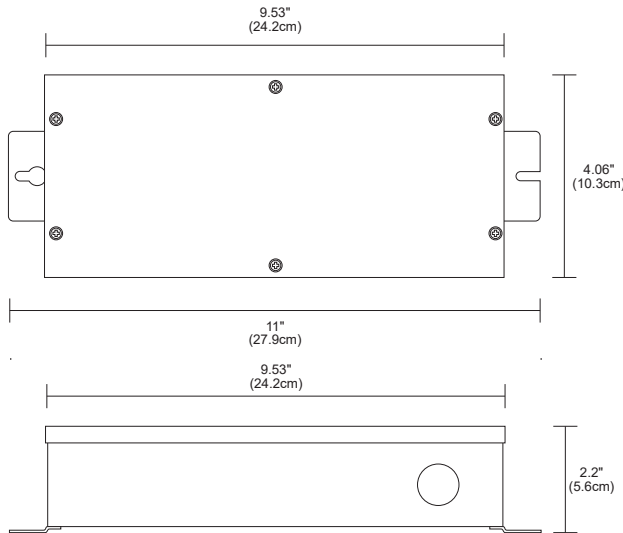
Con-1-2CORD-O Cord conductors included

## UNI STATIC WHITE POWER SUPPLY WET LOCATION

Universal Power Supply: 120/277VAC-24VDC with Universal dimming ELV, Triac or 0-10V dimmers. 100-0% Flicker free dimming. Aluminum casing for optimal heat dissipation. Isolated output power per NEC and UL safety requirements. UL & ETL recognized/ listed, meets UL8750, 1310 requirement. Auto-reset; short circuit, overload and thermal protection. Class 2 power supply. Efficient, High power factor > 0.90. Exceeds California Title 24 Requirements AAA rating. Efficiency > 84% Power Factor > 0.90. Case TC 90C° Max. Protection Input / Output Storage -30°C / +90°C Humidity 95% RH Max. Class 2 Power Supply Dimming ELV, Triac, 0-10V IP Rating IP67



Product	Wattage	Type	Voltage	Option
<b>PSB</b>	<b>60W</b>	<b>UNI</b>	<b>24VDC</b>	<b>W</b>
PSB Power Supply with Aluminum Casing	60W 60 Watts 96W 96 Watts	UNI Uni Driver	24VDC 24VDC	W Wet Location



### COMPATIBLE DIMMERS:

TRIAC DIMMING & CONTROLS
LUTRON SKYLARK: S2-L-WH
LUTRON DVLV-600P-WH
LUTRON DVLV-603P-WH
LUTRON MALV-600-WH
LUTRON MALV-1000-WH
LUTRON MA-R-XX

ELV DIMMING & CONTROLS
LUTRON DIVA: DVELV-300P
LUTRON SKYLARK: SELV-300P
LUTRON RADIO RA2: RRD-6NA
LUTRON MAESTRO: MAELV-600
LEGRAND ADORNE: ADTP-703TUM4
0-10 DIMMING & CONTROLS
PHILIPS SUNRISE: SR1200ZTUNV
LUTRON DIVA: DVTW-WH, DVSTV-WH
LUTRON NOVA T: NTSTV-DV-XX
LUTRON GRAFIK EYE QS: QSGRJ-XP
LUTRON RADIO RA2: RRD-10ND
LEVITON: LEV40050
LEVITON IP710-LFZ
LEGRAND: ADPD4FBL3P2W4

### A. WET RATED OUTDOOR POWER SUPPLY ENCLOSURE

Use of Outdoor requires a Wet Location Junction Box to house the wire connection from the Power Supply. The Outdoor Connection Box is sold separately. A and B come together in the above product.

### B. UNI STATIC WHITE POWER SUPPLY

The product above is the power supply inside an aluminum enclosure. Outdoor has a maximum run length of 40' at 2 watts per foot or 20' at 5 watts.

### C. POWER CONNECTOR

Power Connector connects to the remote power supply. Comes connected to each end of the fixture

- Flicker free dimming
- Class 2 power supply
- Efficient, High power factor > 0.90
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements

- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supply's used for LED lighting
  - 0-10 Dimmer: Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

PROJECT	FIXTURE TYPE	DATE
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### UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

<b>ORDERING CODE</b>	<b>PSB-40W-UNI-24VDC</b> 	<b>PSB-60W-UNI-24VDC</b> 	<b>PSB-2X40W-UNI-24VDC</b> 	<b>PSB-2X60W-UNI-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	40W	60W	2X40W	2X60W
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	12.4" X 3.12" X 2.18"	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	12.15" X 6.48" X 2.18"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	<b>PSB-40W-UNI-24VDC-TB</b>	<b>PSB-60W-UNI-24VDC-TB</b>	<b>PSB-2X40W-UNI-24VDC-TB</b>	<b>PSB-2X60W-UNI-24VDC-TB</b>
<b>IN-WALL MOUNTING</b>	<b>PSB-40W-UNI-24VDC-IW</b>	<b>PSB-60W-UNI-24VDC-IW</b>	<b>PSB-2X40W-UNI-24VDC-IW</b>	<b>PSB-2X60W-UNI-24VDC-IW</b>

### UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

<b>ORDERING CODE</b>	<b>PSB-96W-UNI-24VDC</b> 	<b>PSB-2X96W-UNI-24VDC</b> 	<b>PSB-3X96W-UNI-24VDC</b> 	<b>PSB-4X96W-UNI-24VDC</b> 
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD</b>	96W	2X96W	3X96W	4X96W
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	12.4" X 3.12" X 2.18"	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	<b>PSB-96W-UNI-24VDC-TB</b>	<b>PSB-2X96W-UNI-24VDC-TB</b>	<b>PSB-3X96W-UNI-24VDC-TB</b>	<b>PSB-4X96W-UNI-24VDC-TB</b>
<b>IN-WALL MOUNTING</b>	<b>PSB-96W-UNI-24VDC-IW</b>	<b>PSB-2X96W-UNI-24VDC-IW</b>	NA	NA

### ELV DIMMING & CONTROLS

<b>LUTRON DIVA: DVELV-300P</b>	•	•	•	•
<b>LUTRON SKYLARK: SELV-300P</b>	•	•	•	•
<b>LUTRON RADIO RA2: RRD-6NA</b>	•	•	•	•
<b>LUTRON MAESTRO: MAELV-600</b>	•	•	•	•
<b>LEGRAND ADORNE: ADTP-703TUM4</b>	•	•	•	•

### 0-10 DIMMING & CONTROLS

<b>PHILIPS SUNRISE: SR1200ZTUNV</b>	•	•	•	•
<b>LUTRON DIVA: DDTV-WH, DVSTV-WH</b>	•	•	•	•
<b>LUTRON NOVA T: NTSTV-DV-XX</b>	•	•	•	•
<b>LUTRON GRAFIX EYE QS: QSGRJ-XP</b>	•	•	•	•
<b>LUTRON RADIO RA2: RRD-10ND</b>	•	•	•	•
<b>LEVITON: LEV40050</b>	•	•	•	•
<b>LEVITON IP710-LFZ</b>	•	•	•	•
<b>LEGRAND: ADPD4FBL3P2W4</b>	•	•	•	•

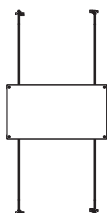
### TRIAC DIMMING & CONTROLS

<b>LUTRON SKYLARK: S2-L-WH</b>	•	•	•	•
<b>LUTRON DIVA DVLV-600P-WH</b>	•	•	•	•
<b>LUTRON DIVA DVLV-603P-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MALV-600-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MALV-1000-WH</b>	•	•	•	•
<b>LUTRON MAESTRO MA-R-XX</b>	•	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

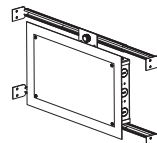
- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supplies used for LED lighting
  - 0-10 Dimmer: Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.

\*Tunable White requires Dual power Supplies and Controls. For single control use with our proprietary Tunable White Controller CDMX-1, refer to Universal Tunable White Power Supply Specifications. Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes :** PSB-40W-UNI-24VDC-TB, PSB-60W-UNI-24VDC-TB, PSB-96W-UNI-24VDC-TB, PSB-2X40W-UNI-24VDC-TB, PSB-2X60W-UNI-24VDC-TB, PSB-2X96W-UNI-24VDC-TB, PSB-3X96W-UNI-24VDC-TB, PSB-4X96W-UNI-24VDC-TB



**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes 5.1" x 14.25":** PSB-40W-UNI-24VDC-IW, PSB-60W-UNI-24VDC-IW, PSB-96W-UNI-24VDC-IW

**Ordering Codes 8.5" x 14.25":** PSB-2X40W-UNI-24VDC-IW, PSB-2X60W-UNI-24VDC-IW, PSB-2X96W-UNI-24VDC-IW

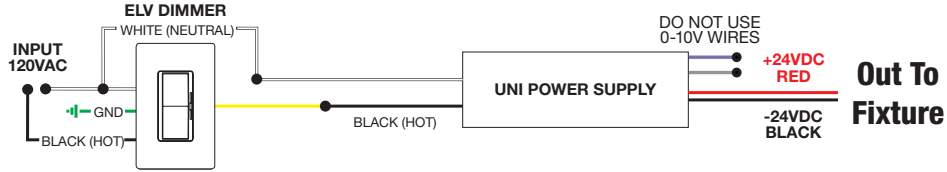
PROJECT	FIXTURE TYPE	DATE
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**WIRING DIAGRAMS UNIVERSAL POWER SUPPLY**

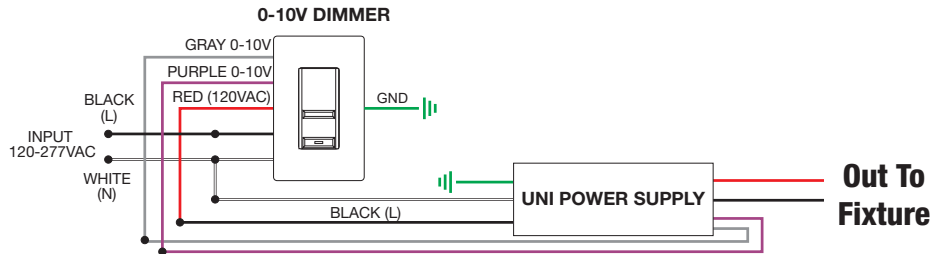
**Application:** ELV dimming for Static White and Warm Dim

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



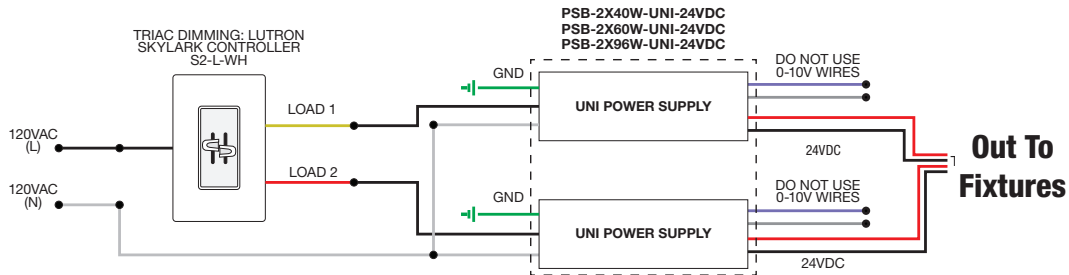
**Application:** 0-10V dimming for Static White

**Dimming:** Dimmable with 0-10V dimmer: Philips Sunrise: SR1200ZTUNV; Lutron Diva: DVTV-WH, DVSTV-WH; Lutron Nova T: NTSTV-DV-XX; Lutron Grafix EYE QS: QSGRJ-XP; Lutron Radio Ra2: RRD-10ND; Leviton: LEV40050; Leviton IP710-LFZ; Legrand: ADPD4FBL3P2W4



**Application:** Triac dimming for two power supplies, use for Static White

**Dimming:** Dimmable with Triac dimmer: Lutron: Skylark S2-L



PROJECT	FIXTURE TYPE	DATE
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# PSB-  X100W-24VDC

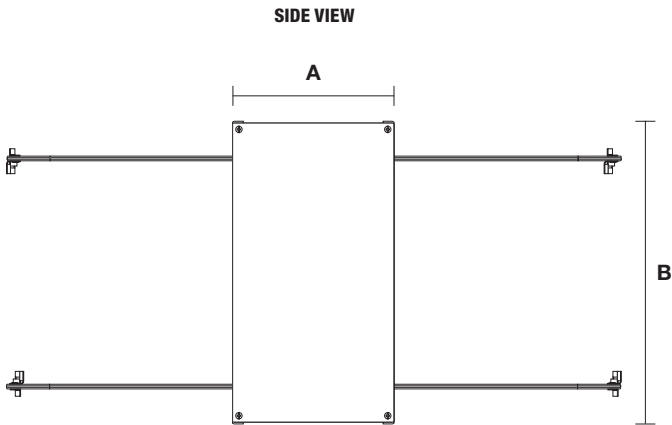
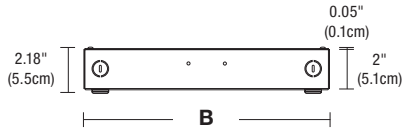
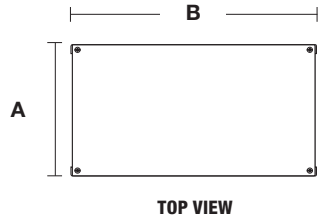
## 24 VOLT DC, NON-DIMMING POWER SUPPLY

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 05.07.21



PSB-100W-24VDC



PSB-100W-24VDC-TB  
(T-BAR GRID CEILING)

### DESCRIPTION

Non-Dim Power Supply accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 4x100 watts. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers for installing Junction Box in wall. Power Supply features short circuit and overload and over temperature protection. Indoor applications only.

### APPLICATIONS

Indoor\*

\*To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.

### MOUNTING

Surface mounted with conduit access

### POWER INPUT

120-277VAC

### POWER OUTPUT

Class 2; 24 volts DC 4A, up to 4x100 watts maximum

### EFFICIENCY

90%

### AMBIENT OPERATING TEMPERATURE

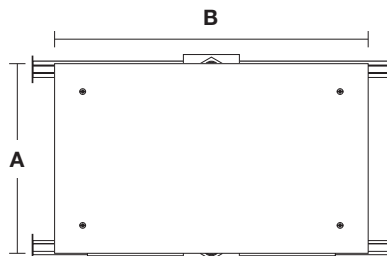
-25° C to 90° C

Product	Wattage	Voltage	Options
<b>PSB</b>	<b>100W</b>	<b>24VDC</b>	<b>STANDARD</b> (Leave Blank)
PSB Power Supply with Enclosure Box	<b>100W</b> 100 Watts <b>2X100W</b> 2 x 100 Watts <b>3X100W</b> 3 x 100 Watts <b>4X100W</b> 4 x 100 Watts	<b>24VDC</b> 24 Volt DC	<b>TB</b> T-Bar Grid Ceiling <b>IW*</b> In-Wall Kit  *Only 100W & 2x100W

STANDARD & T-BAR DIMENSIONS		
	A	B
PSB-100W-24VDC	3.12"	12.4"
PSB-2X100W-24VDC	6.48"	12.15"
PSB-3X100W-24VDC	10"	14"
PSB-4X100W-24VDC	13"	17"



PSB-100W-24VDC-IW



PSB-100W-24VDC-IW (IN WALL KIT)

IN-WALL DIMENSIONS		
	A	B
PSB-100W-24VDC-IW	5.1"	14.25"
PSB-2X100W-24VDC-IW	8.5"	14.25"

PROJECT		FIXTURE TYPE		DATE	
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# WET LOCATION TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY



24VDC OUTDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 05.07.21



PSB-96W-010-24VDC-2XK-W

### DIMENSIONS

#### PSB-96W-010-24VDC-2XK-W

Length: 10"  
Width: 7.1"  
Height: 3.3"  
Weight: 1.6lbs

### DESCRIPTION

Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. Power Supply features short circuit, overload and over temperature protection.

### APPLICATIONS

Outdoor Wet Location, IP66

### MOUNTING

Surface mounted with conduit access

### POWER INPUT

120-277VAC

### POWER OUTPUT

Class 2; 24 volts DC 4A, 96 watts maximum

### EFFICIENCY

85%

### AMBIENT OPERATING TEMPERATURE

-25C to 40C

### DIMMING

#1 Controls the intensity. #2 Controls the Color Temperature.  
0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

### DIMMING CURVE

Linear, Logarithmic 100% - 0% (HydraDrive)

### COMPLIANCE

Made in the USA, UL, CE, Plenum for use in Accordance with UL 2043. JA8 compliant when used with Pure Edge Tunable White Products.



PSB-2X96W-010-24VDC-2XK-W

### DIMENSIONS

#### PSB-2X96W-010-24VDC-2XK-W

Length: 11.8"  
Width: 9.1"  
Height: 3.4"  
Weight: 2.26lbs

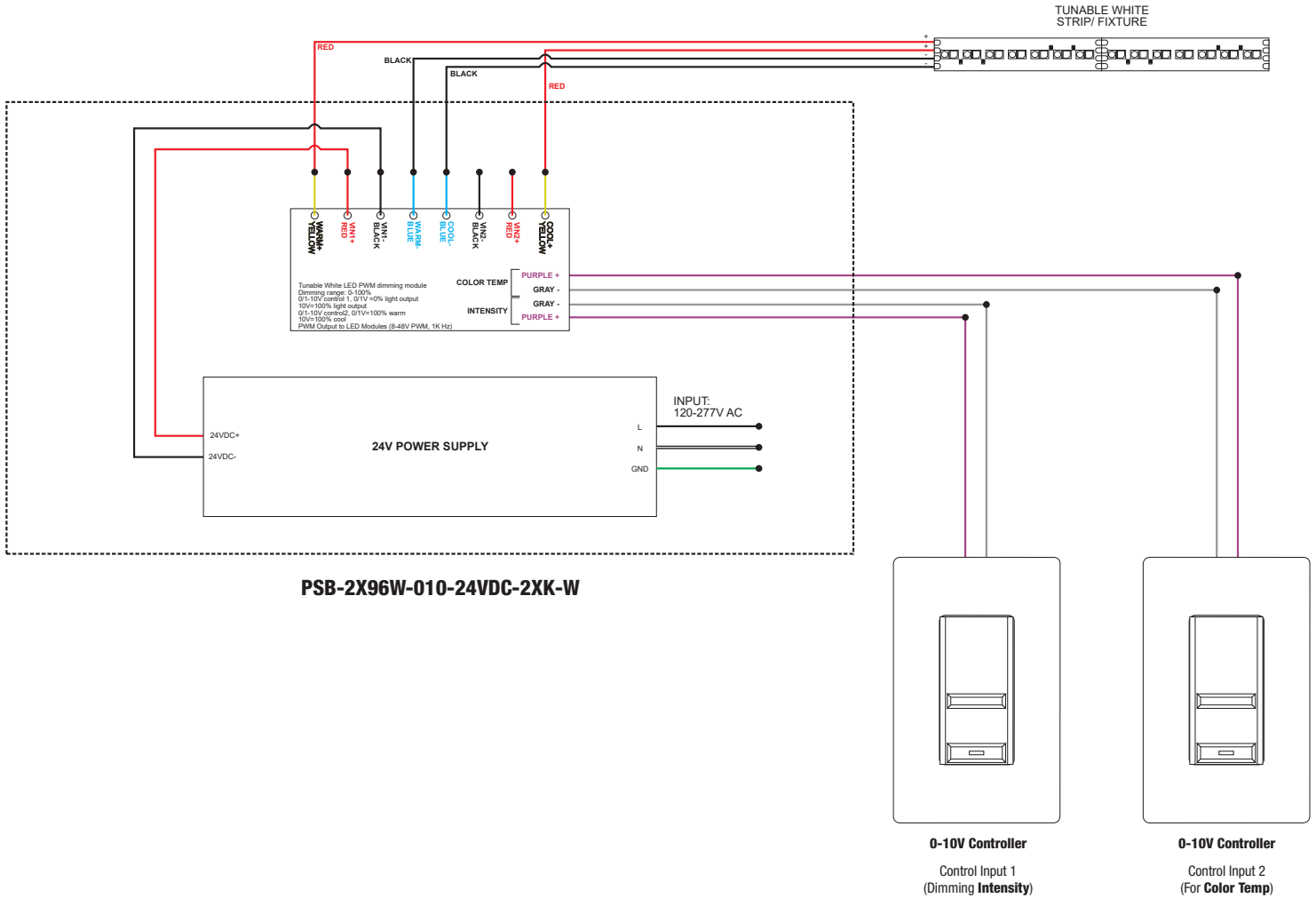
Product	Wattage	Dimming	Voltage	Color Temperature	Option
<b>PSB</b>	<b>96W</b>	<b>010</b>	<b>24VDC</b>	<b>2XK</b>	<b>W</b>
<b>PSB</b> Power Supply with Enclosure Box with Tunable White 0-10V Controller	<b>96W</b> 96 Watts <b>2X96W</b> 2 x 96 Watts	<b>010</b> 0-10 Volt Dimming	<b>24VDC</b> 24 Volt DC	<b>2XK</b> Tunable White	<b>W</b> Wet Location

PROJECT	FIXTURE TYPE	DATE
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# WET LOCATION TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

24VDC OUTDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

**Application:** 0-10V dimming for Tunable White Fixture

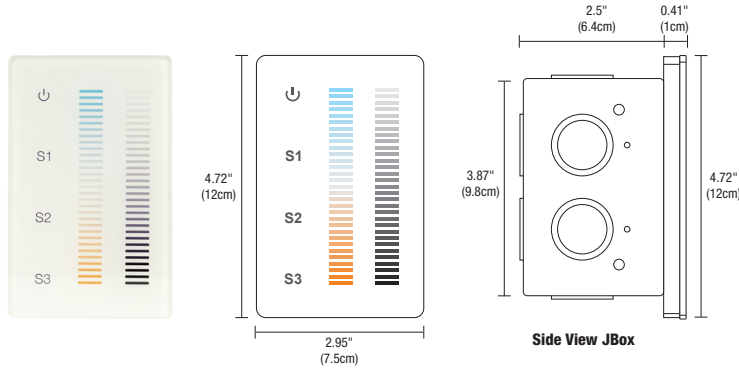


PROJECT		FIXTURE TYPE		DATE	
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# TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES

24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

REV 05.07.21



**DESCRIPTION:**

The Tunable White Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K** (Sunset) to **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

**APPLICATIONS:**

Indoor

**OUTPUT SIGNAL:**

USITT DMX 512 (1990)

**INSTALLATION:**

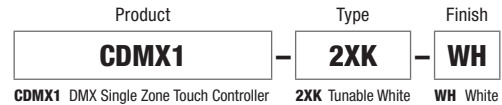
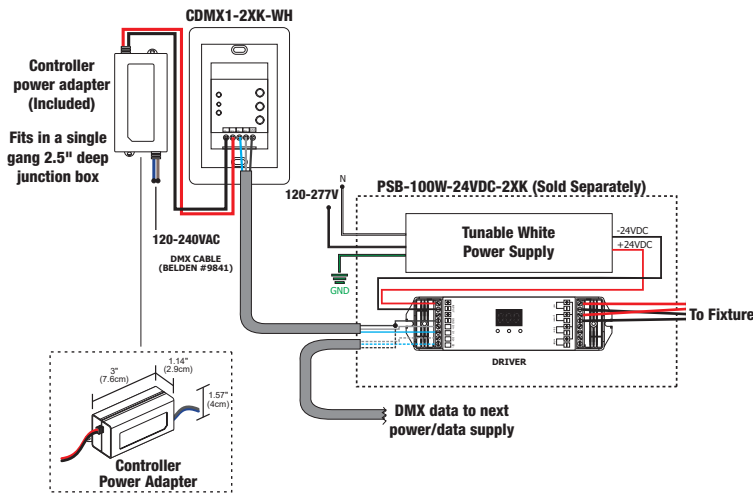
Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

**LABELS:**

ROHS, FCC, Damp Location, ETL/UL

**POWER INPUT:**

120-240VAC

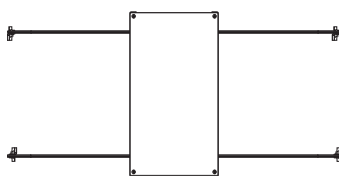


**COLOR CHANGING (DMX) POWER SUPPLIES**

ORDERING CODE	PSB-100W-24VDC-2XK	PSB-2X100W-24VDC-2XK	PSB-3X100W-24VDC-2XK	PSB-4X100W-24VDC-2XK
<b>SPECIFICATIONS</b>				
<b>MAXIMUM LOAD OF LED STRIP LENGTH</b>	100W 5 WATTS - 20FT MAX. 10 WATTS - 10FT MAX.	2X100W 5 WATTS 2 X 20FT MAX. 10 WATTS - 2 X 10FT MAX.	3X100W 5 WATTS 3 X 20FT MAX. 10 WATTS - 3 X 10FT MAX.	4X100W 5 WATTS 4 X 20FT MAX. 10 WATTS - 4 X 10FT MAX.
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	12.4" X 6.48" X 2.18"	14" X 10" X 3"	17" X 10" X 3"	17" X 10" X 3"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	<b>PSB-100W-24VDC-2XK-TB</b>	<b>PSB-2X100W-24VDC-2XK-TB</b>	<b>PSB-3X100W-24VDC-2XK-TB</b>	<b>PSB-4X100W-24VDC-2XK-TB</b>
<b>IN-WALL MOUNTING</b>	<b>PSB-100W-24VDC-2XK-IW</b>	NA	NA	NA
<b>DMX TUNABLE WHITE DIMMING &amp; CONTROLS</b>				
<b>TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)</b>	•	•	•	•

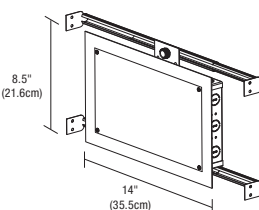
- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90



**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes:**  
 PSB-100W-24VDC-2XK-TB  
 PSB-2x100W-24VDC-2XK-TB  
 PSB-3x100W-24VDC-2XK-TB  
 PSB-4x100W-24VDC-2XK-TB



**8.5" x 14" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:**  
 PSB-100W-24VDC-2XK-IW

PROJECT	FIXTURE TYPE	DATE
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PSB-100W-24VDC-2XK-W



PSB-2X100W-24VDC-2XK-W

### DESCRIPTION

Our Surface Mount, exterior-rated Tunable White supplies utilize drivers for powering 24VDC constant voltage products. These products are the ideal power supplies for all Color Changing, damp or wet LED lighting solutions. Our constant voltage LED Power Supplies for outdoor environments are designed to provide regulated voltage through the DMX driver to the LED module. Designed for outdoor Cirrus, Soft Strip and Flex Neon.

- Universal Input Voltage
- Ripple Free
- IP65 – For Both Indoor and Outdoor Use
- No Minimum Load Requirement
- Class 2, Class P
- Auto-Reset Protection for Short Circuit & Over-Temperature
- Over Load Protection – CC Mode

### CONTROLS

- CDMX1-2XK - Single zone DMX touch controller
- CTP - Multiple zone DMX touch controller

### POWER INPUT

Universal Input voltage ranging from 120 to 277VAC

### DIMENSIONS

#### PSB-100W-24VDC-2XK-W

Length: 10"  
Width: 7.1"  
Height: 3.3"  
Weight: 1.6lbs

#### PSB-2X100W-24VDC-2XK-W

Length: 11.8"  
Width: 9.1"  
Height: 3.4"  
Weight: 2.26lbs

### LABELS

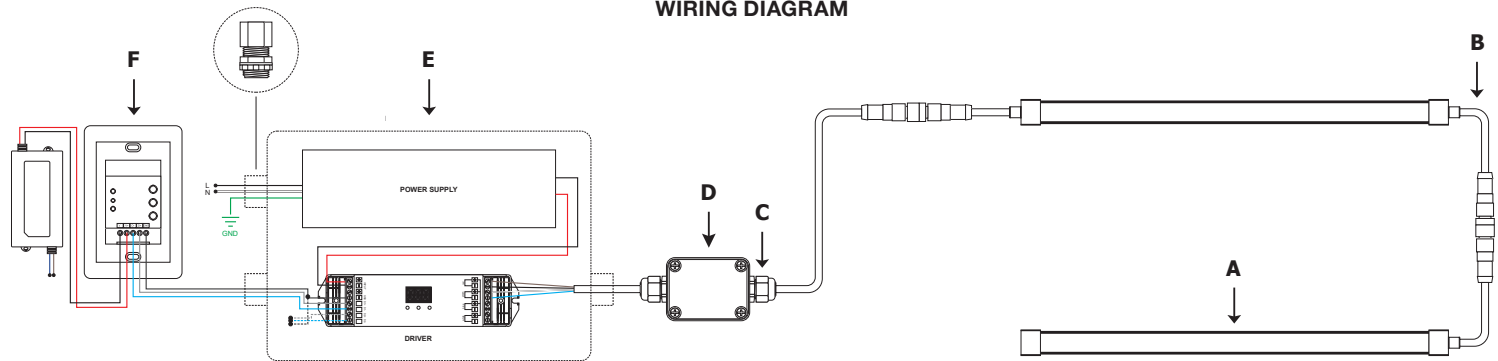
Assembled in America, Class P, Class 2, IP65, 120-277V, Dimmable, RoHS Compliant, 24VDC



Product	Wattage	Voltage	Type	Option
<b>PSB</b>	<b>100W</b>	<b>24VDC</b>	<b>2XK</b>	<b>W</b>
PSB Power Supply with Aluminum Enclosure	100W 100 Watts 2X100W 2x100 Watts	24VDC 24 Volts	2XK Tunable White	W Wet Location
Product	Wattage	Voltage	Type	Option
<b>PSB</b>	<b>96W</b>	<b>24VDC</b>	<b>2XK</b>	<b>W</b>
PSB Power Supply with Aluminum Enclosure	96W 96 Watts 2X100W 2x96 Watts	24VDC 24 Volts	2XK Tunable White	W Wet Location

### REQUIRED COMPONENTS SOLD SEPARATELY

### WIRING DIAGRAM



#### A. OUTDOOR 24VDC FIXTURE OR FLEX NEON

Wet location Cirrus, Flex Neon or Soft Strip. Please refer to fixture ordering code for incremental lengths. Cirrus, Flex Neon and Soft Strip are not field cuttable or submersible.

#### B. POWER CABLE CONNECTOR

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections.

#### C. POWER CONNECTOR

Sold Separately for Cirrus, Flex Neon and wet location Soft Strip.  
\*Included with Wet Location LED Soft Strips - comes connected to each end of the LED Soft Strip sealed in water-resistant silicone.

#### D. OUTDOOR CONNECTION BOX

Wet-rated low voltage Splice Box with connectors.

#### E. OUTDOOR RATED POWER SUPPLY WITH DMX DRIVER

Outdoor rated Power Supplies are required for use with a Outdoor LED Soft Strip and fixtures.

#### F. CONTROLLER (SOLD SEPARATELY)

CDMX1-2XK or CTP

PROJECT	FIXTURE TYPE	DATE
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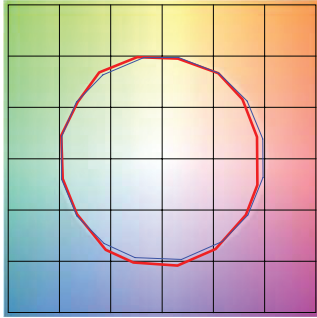
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

**TM-30-15 DATA:** The data below is for ST2A, ST5A, ST7A and ST10A 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: 90.5 | Rg: 99.9

Color Vector Graphic

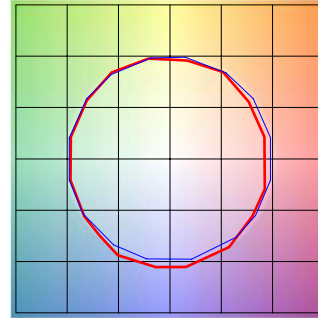


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	1.0%
2	90.1	-3.6%	3.7%
3	87.5	-0.5%	5.6%
4	93.9	-1.2%	1.3%
5	94.7	0.7%	2.1%
6	93.7	2.6%	0.7%
7	93.5	-1.5%	-2.2%
8	97.8	-0.4%	-0.2%
9	93.7	-1.5%	2.4%
10	90.8	-0.8%	4.9%
11	89.3	3.7%	5.4%
12	90.2	4.6%	1.0%
13	89.0	4.4%	-9.7%
14	75.4	0.6%	-15.1%
15	90.7	-1.7%	-5.0%
16	84.2	-4.4%	-9.1%

**2400K** | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

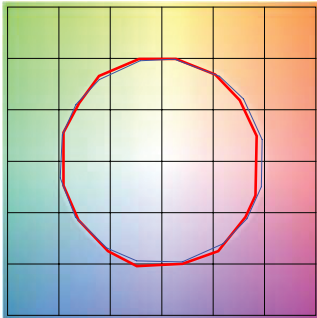


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

**2700K** | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

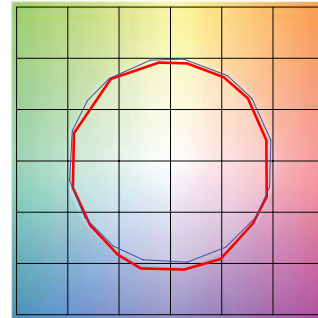


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

**3000K** | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

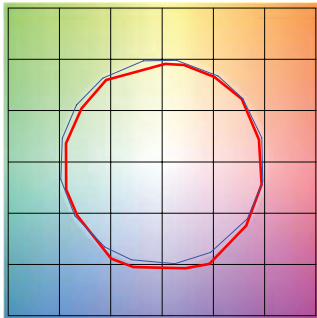


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

**3500K** | Rf: 88.1 | Rg: 97.1

Color Vector Graphic

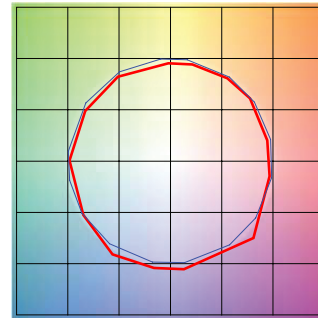


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

**5700K** | Rf: 87.6 | Rg: 98.0

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.9	-3.9%	1.5%
2	92.3	-1.7%	2.7%
3	91.0	-1.2%	2.4%
4	91.5	-1.2%	1.6%
5	86.2	-5.9%	-0.4%
6	93.5	-3.2%	-0.2%
7	93.1	-3.8%	0.6%
8	85.9	-4.6%	5.9%
9	83.6	-4.0%	12.7%
10	75.8	-0.6%	13.6%
11	80.2	4.3%	10.4%
12	83.4	3.4%	1.8%
13	90.8	5.0%	-2.0%
14	91.8	1.3%	-3.3%
15	79.4	8.6%	-12.7%
16	93.4	-2.7%	-0.2%

PROJECT	FIXTURE TYPE	DATE
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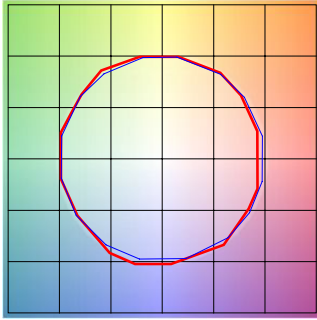
# LED STRIP TM30 DATA

24VDC, STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

**TM-30-15 DATA:** The data below is for ST2A, ST5A, ST7A and ST10A 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.

**2700D** | Rf: 90.7 | Rg: 101.1

Color Vector Graphic

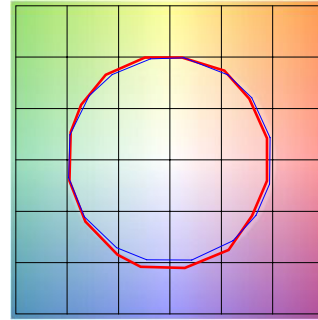


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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

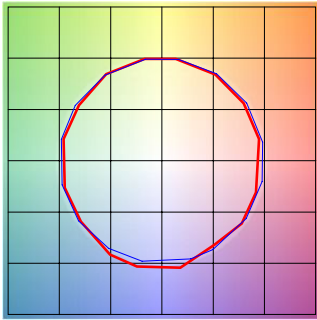


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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%

**2000K ONLY (2K4K)** | Rf: 90.6 | Rg: 98.5

Color Vector Graphic

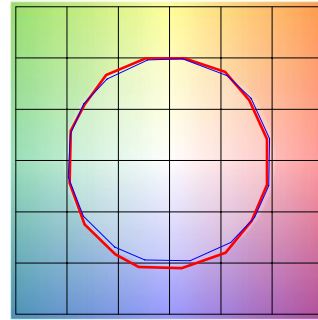


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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 (2K4K)** | Rf: 90.5 | Rg: 100.7

Color Vector Graphic

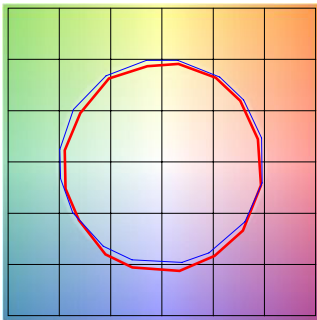


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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 (2K4K)** | Rf: 86.4 | Rg: 96.1

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		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
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