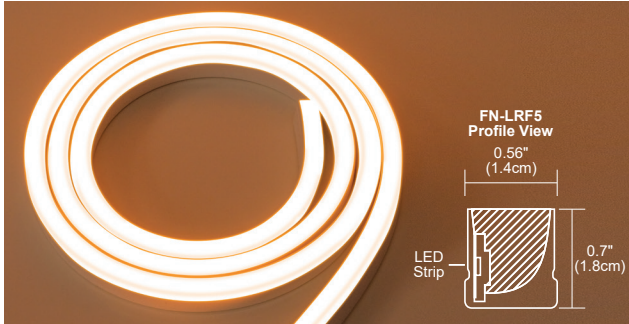


FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

ASSEMBLED IN AMERICA

REV 04.27.26



DESCRIPTION

LRF5 Flexible Neon Bends Left or Right with a 0.5" wide Flat lens, offering superior color rendering while creating uniform illumination without visible dots. May be surface mounted or Flush mounted. Choose from multiple static white color temperatures, including Warm Dim options and Tunable White. Available Tunable White technology grants independent control for adjusting LED color temperature and brightness. The (W) is an IP67 rated wet location fixture featuring watertight barrel connections. Seamless (S) (for seamless continuous runs), is rated for Indoor Damp Locations ONLY and uses Class 2 bare wire connectors. Patent pending. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

For quick & easy reference, plus the most up-to-date pricing, use our [Flex Neon LRF5 Configurator](#)

LUMEN PERFORMANCE AT 3000K 5W PER FOOT

LUMEN OUTPUT:	254 lm/ft	EFFICIENCY:	58 lm/watt
CRI:	92	R9:	76

SPECIFICATIONS

DIMENSIONS	Height: 0.75" Width 0.6" (TOP) 0.7" (BOTTOM)
INPUT	24VDC with 5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	2.5 or 4.4 watts per foot
INCREMENTS	2.4" or 3"
MAX LENGTH	40' at 2 watts, 20' at 5 watts
BENDING	4" Minimum Radius
BEAM ANGLE	120°
BEAM TOLERANCE	+/- 30CCT
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 IP67 Rated, ETL listed



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

24VDC, Class 2 wiring

OUTDOOR/WET LOCATION

Static White

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

Warm Dim

- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)
- [Make It Smart: Pure Smart™ Wi-Fi Dimmer](#)

Tunable White

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

INDOOR

Static White

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

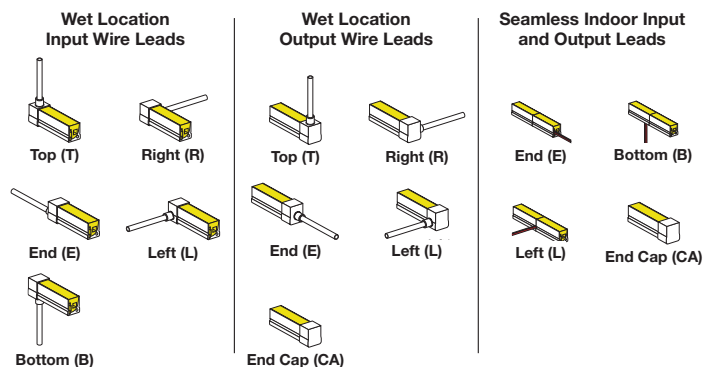
Warm Dim

- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)
- [Make It Smart: Pure Smart™ Wi-Fi Dimmer](#)

Tunable White

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

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



System	Viewing Angle Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Inch Output Wire	Environment
FN	LRF5	2W	120	27K	E	L	W
FN Flex Neon 24V	LRF5 Left or Right Side Bend Top View Flat 0.5" x 0.7"	2W 2.5 watts per foot 5W 5 watts per foot	6-480 (40" max) 6-240 (20" max)	24K 2400K Very Warm White 240* 2400K Warm Dim, Dims to 1800K 27K 2700K Incandescent White High Lumens 27D* 2700K Warm Dim, Dims to 2000K 30K 3000K Warm White 30KH 3000K Warm White High Lumens	30DH 3000K Warm Dim, Dims to 2000K High Lumens 35K 3500K Neutral White 35KH 3500K Neutral White High Lumens 35DH 3500K Warm Dim, Dims to 2000K High Lumens 40KH 4000K Cool White High Lumens 2K6K Tunable White 2000K-6500K 27K6 Tunable White 2700K-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 CA** Cap at end, no feed through	S Seamless Indoor/ Damp location bare wire leads Bottom and Left Feed Only W Outdoor wet location Barrel Connector cable leads

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

NOMINAL DELIVERED LUMENS

STATIC WHITE & WARM DIM										
WATTS PER FOOT	2W (2.5 watts)				5W (5 watts)					
COLOR TEMPERATURE	24K	27K	30K	35K	24K	24D*	27K	27D*	30K	35K
LUMENS PER FOOT (lm/ft)	114	115	120	137	210	242	212	252	221	254
LUMENS PER WATT (lm/w)	45	46	48	55	48	50	48	53	50	58
CRI	92+	92+	92+	92+	92+	94+	92+	94+	92+	92+

*Warm Dim: 4.8 Watts

STATIC WHITE & WARM DIM HIGH LUMENS											
WATTS PER FOOT	2W (2.5 watts)					5W (5 watts)					
COLOR TEMPERATURE	27KH	30KH	30DH	35KH	35DH	40KH	27KH	30KH	30DH	35KH	35DH
LUMENS PER FOOT (lm/ft)	197	203	109	209	115	200	402	406	193	442	208
LUMENS PER WATT (lm/w)	69	72	39	74	40	73	66	68	46	108	50
CRI	95	94	95	93	96	93	95	94	96	93	95

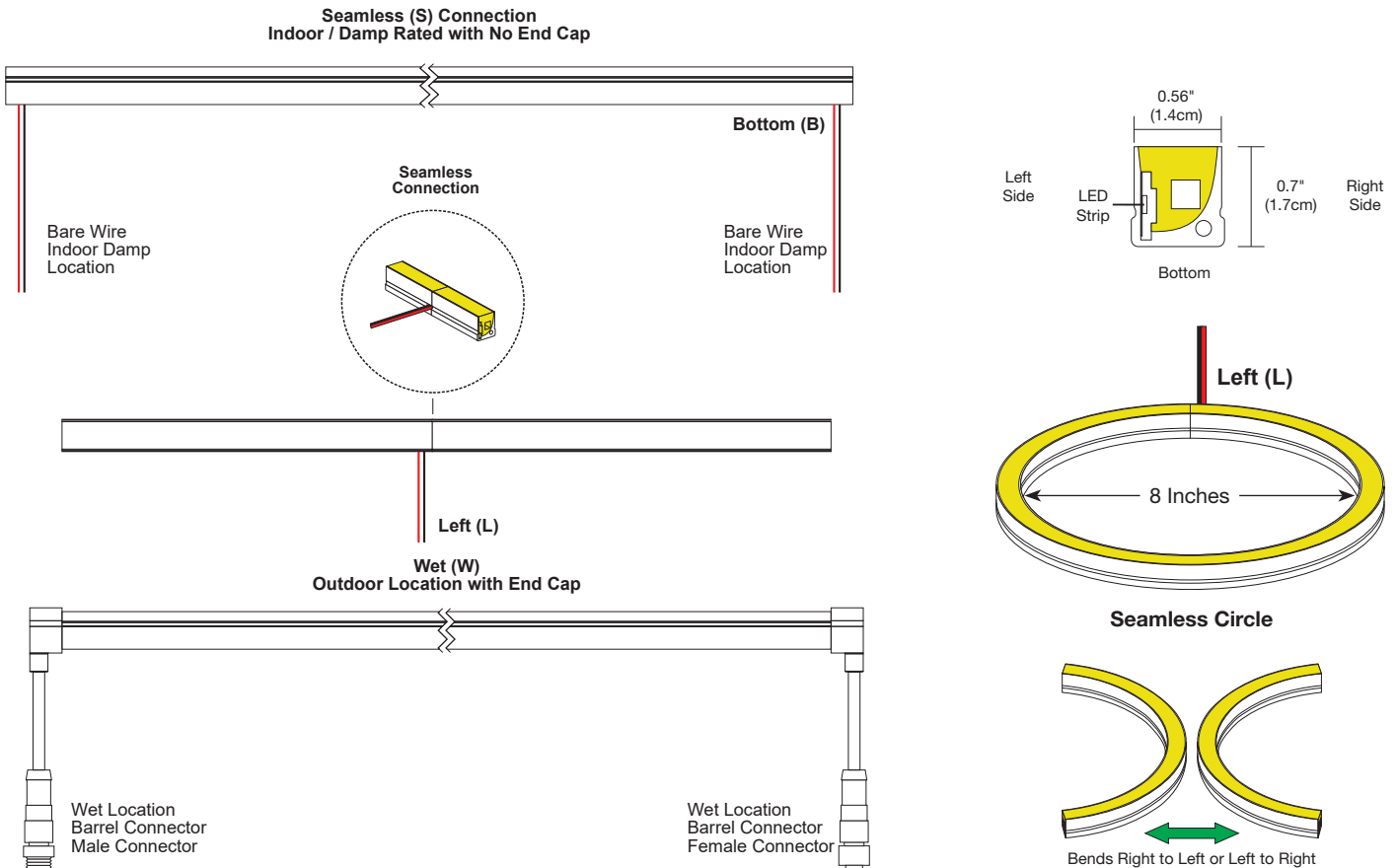
2K6K*																		
WATTS PER FOOT	2.5W									4.6W								
COLOR TEMPERATURE	20K	22K	24K	27K	30K	35K	40K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K
LUMENS PER FOOT (lm/ft)	61	62	62	63	64	66	72	78	83	147	153	159	165	171	183	196	198	200
LUMENS PER WATT (lm/w)	33	31	31	32	32	33	90	39	46	32	32	33	34	36	38	41	41	43
CRI	91+	91+	91+	94+	93+	92+	92+	91+	91+	91+	91+	91+	94+	93+	92+	92+	91+	91+

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

27K6*														
WATTS PER FOOT	2.5W								4.4W					
COLOR TEMPERATURE	27K	30K	35K	40K	45K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	66	78	80	82	90	97	92	164	168	174	181	179	177	177
LUMENS PER WATT (lm/w)	33	31	32	33	36	39	46	41	37	38	39	39	39	44
CRI	94+	93+	92+	92+	92+	92+	91+	94+	93+	92+	92+	92+	92+	91+

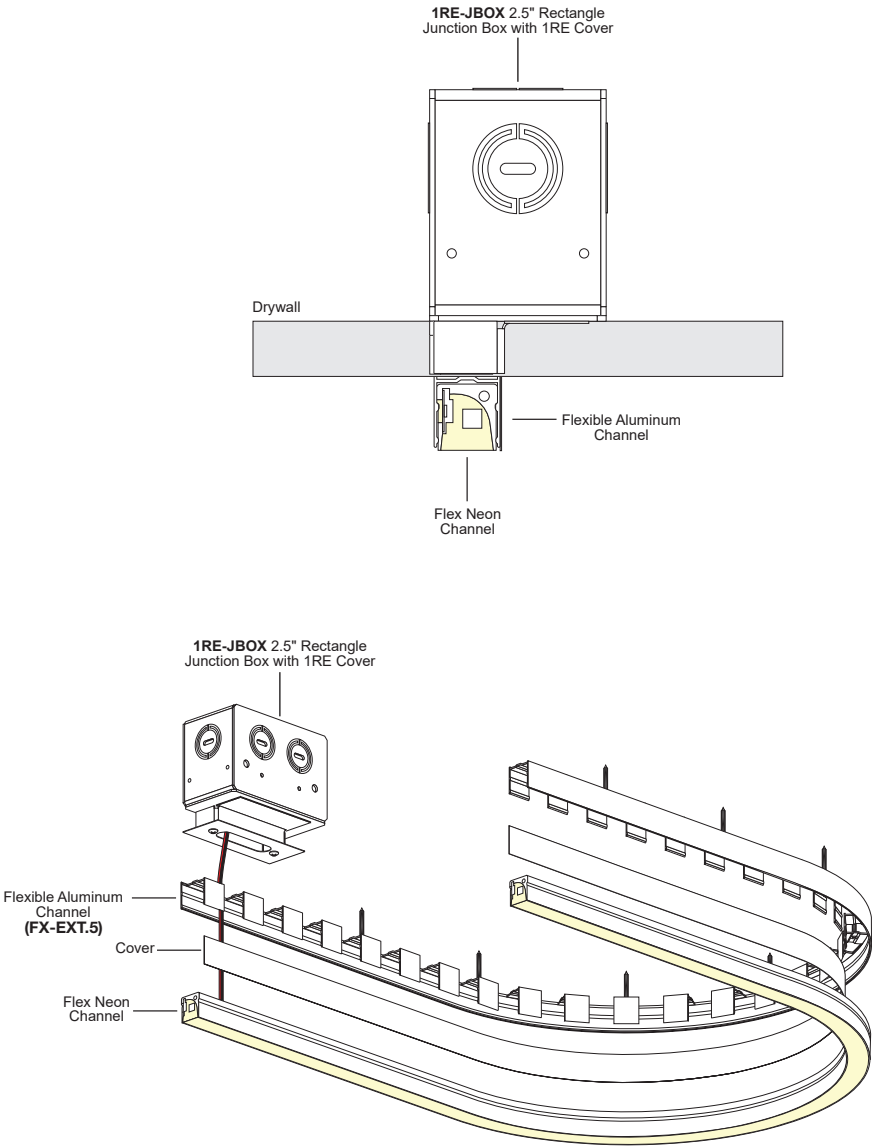
*Tunable White has a variance in color temperature due to the curvature of the material.

DRAWINGS & DIMENSIONS Dimensions for the Flex Neon LRF5



FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS 24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

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



FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 04.27.26

LENGTH CHART Actual lengths for Flex Neon LRF5

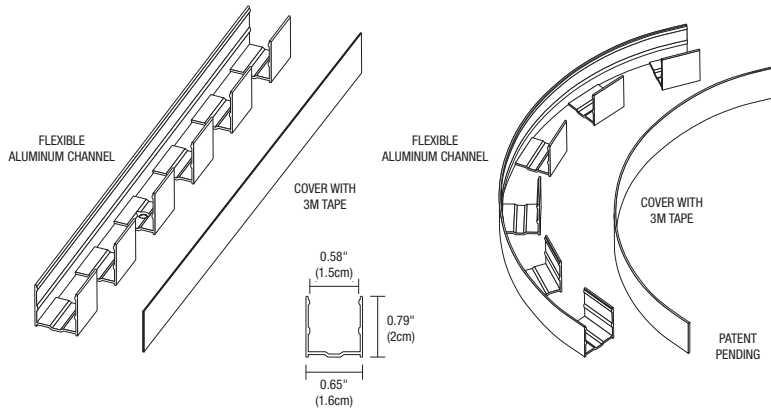
LENGTH CHART - STATIC & TUNABLE WHITE											
Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length	Ordering Code (Nominal Size)	Actual Length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

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

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 04.27.26



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 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
FX-EXT.5	4FT	WH
FX-EXT.5 Flexible Extrusion 0.5" Wide	4FT 4 Feet	BK Black WH White

DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

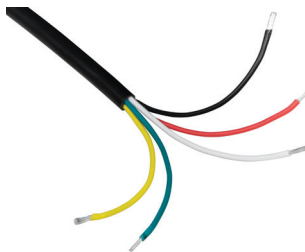
Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot. Not compatible with Tunable White.



Product	Gauge	Cable
DB	12G	2C
DB Direct Burial	12G 12 Gauge	2C 2 Conductor

WET AND DAMP LOCATION CABLE ORDER PER FOOT

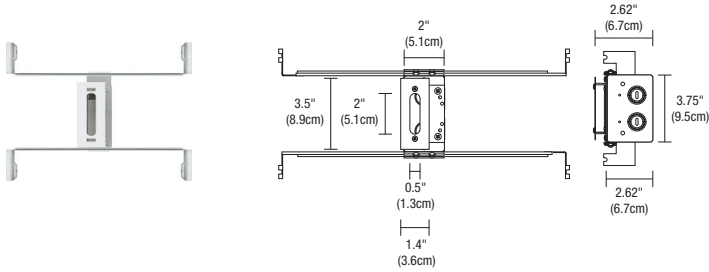
Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed. For use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



Product	Gauge	Cable
OC	14G	5C
OC Outdoor Cable	14G 14 Gauge	5C 5 Conductor

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

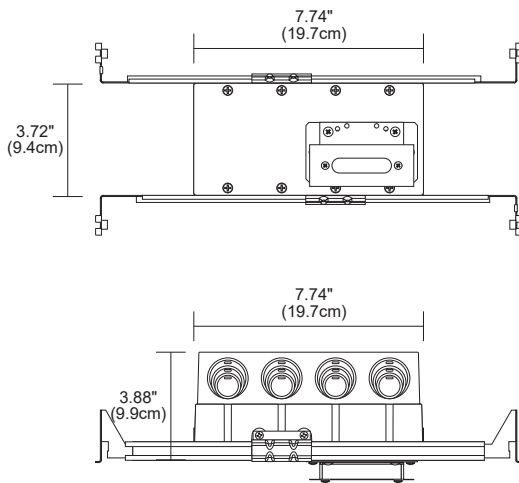


1" RECTANGLE CANOPY & J-BOX*

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

Product	Canopy	Product
C	1RE	JBOX
C Channel	1RE 1" Rectangle	JBOX Junction Box



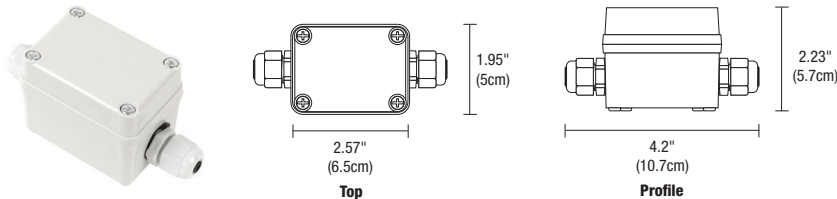
1" RECTANGLE CANOPY WITH 4 GANG JUNCTION BOX AND PURE SMART WIZ PRO CV BRIDGEBOX

The slim profile 1RE Canopy with 4 Gang Junction Box come with adjustable hanger bars and a Pure Smart WiZ Pro CV Bridgebox allowing wireless control of Flex Neon. Two Class 2, 14AWG stranded conductors from the Remote Power Supply up to 40 ft away are required.

System	Type	Wattage	Control	Color Temperature	System Code
C	1RE4G	96W	WZ	DW	FN
C Channel	1RE4G 1" Rectangle Canopy with 4 Gang Junction Box	96W 96 Watts	WZ WIZ Pro Connected CV Smart Bridgebox Included	DW Static White TW Tunable white	FN Flex Neon

WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



Product	Type	Option
2RE	JBOX	W
2RE 2" Rectangle	JBOX Junction Box	W Wet Location

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE



WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

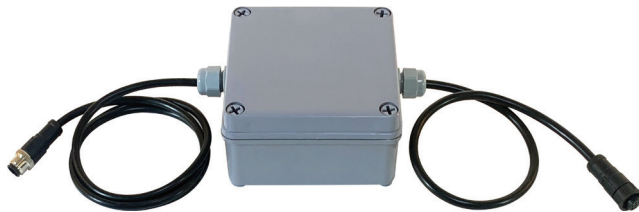
This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is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

Static White & Warm Dim

Product	Canopy	Product	Size	Option
SS	2RE	JBOX	6IN	W
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Four Wire Connection 96IN 96" Four Wire Connection	W Wet Location

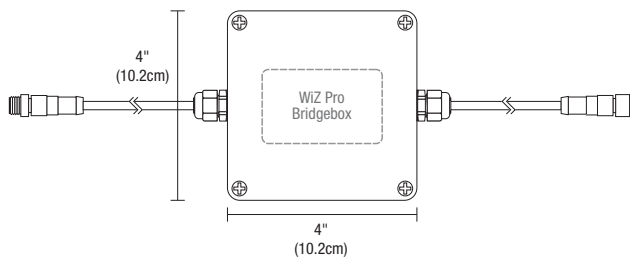
All Other Color Temperatures

Product	Canopy	Product	Size	Color Temperature	Option
SS	2RE	JBOX	6IN	RGBW	W
SS LED Soft Strip Flex Neon	2RE 2" Rectangle	JBOX Junction Box	6IN 6" Five Wire Connection 96IN 96" Five Wire Connection	RGBW Red, Green, Blue & Tunable White	W Wet Location



PURE SMART WET LOCATION JUNCTION BOX WITH 8FT POWER CABLE AND WIZ PRO UR BRIDGEBOX

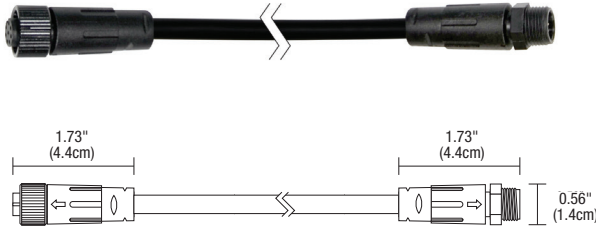
This watertight Junction Box is especially designed for lighting in wet and damp locations. The Junction Box comes standard with a 8ft of outdoor cable and both male and female barrel connectors providing easy, safe, and reliable connections for 24V low voltage luminaires. Included with the Junction Box is one WIZ Pro type Bridgebox allowing wireless control of Flex Neon. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.



Product	Type	Wattage	Controls	Color Temperature	Option	System
BR	JBC	96W	WZ	DW	W	FN
BR Bridgebox for LED Soft Strip and Flex Neon	JBC Outdoor Junction Box with Two Barrel Connectors	96W 96 Watts	WZ WIZ Connected Bridgebox Included	DW Static White TW Tunable white	W Wet Location	FN Flex Neon

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE



POWER CABLE CONNECTOR WET LOCATION

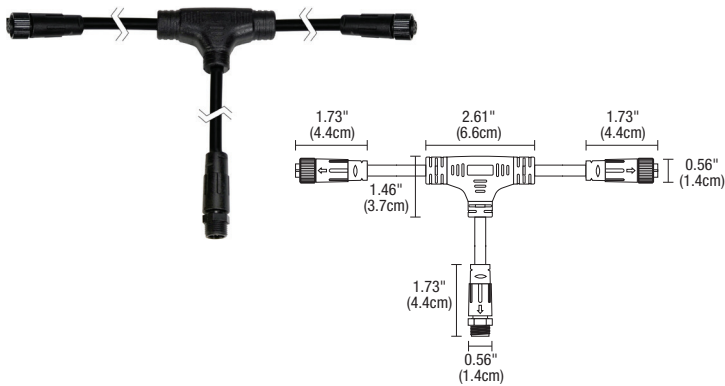
The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Static White & Warm Dim

Product	Type	Size	Conductor	Option
SS	CFX	16IN	2C	W
SS Soft Strip and Flex Neon	CFX Flexible Connector	16IN 16" 96IN 96"	2C 2 Conductor	W Wet Location

All Other Color Temperatures

Product	Type	Size	Conductor	Option
SS	CFX	16IN	6C	W
SS Soft Strip and Flex Neon	CFX Flexible Connector	16IN 16" 96IN 96"	6C 6 Conductor	W Wet Location



WET LOCATION T-CONNECTOR

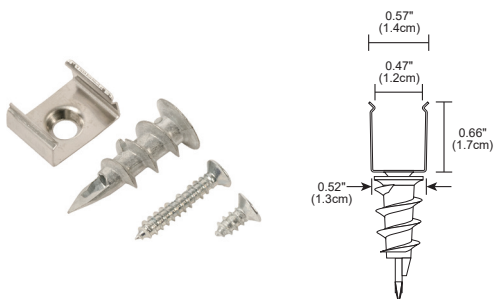
Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation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

Static White & Warm Dim

Product	Type	Size	Size	Option
SS	CFX	4IN	2YC	W
SS Soft Strip and Flex Neon	CFX Flexible Connector	4IN 4"	2YC Y-Shape 2 Conductor	W Wet Location

All Other Color Temperatures

Product	Type	Size	Size	Option
SS	CFX	4IN	6YC	W
SS Soft Strip and Flex Neon	CFX Flexible Connector	4IN 4"	6YC Y-Shape 6 Conductor	W Wet Location



MOUNTING CLIPS

NX.5-MCL mounting clips are provided with every 12" of Flex Neon and may be ordered separately as replacement parts.

System	Product
NX.5	MCL
NX.5 Flex Neon .5" Mounting Clip	MCL Mounting Clip

FLEX NEON TIE STRAP

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

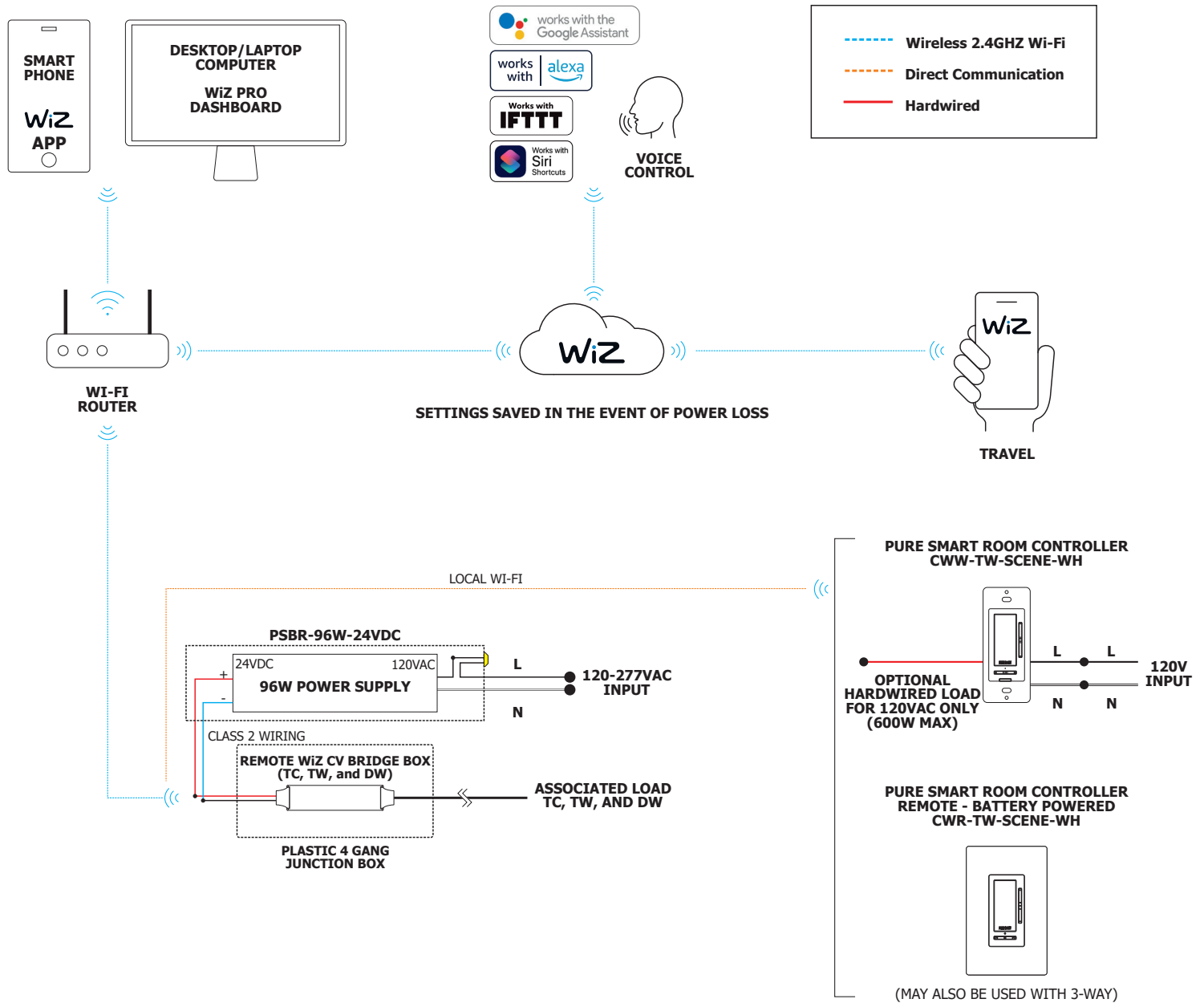


Product	Type
SS	ST
SS LED Flex Neon	ST Tie Strap

FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

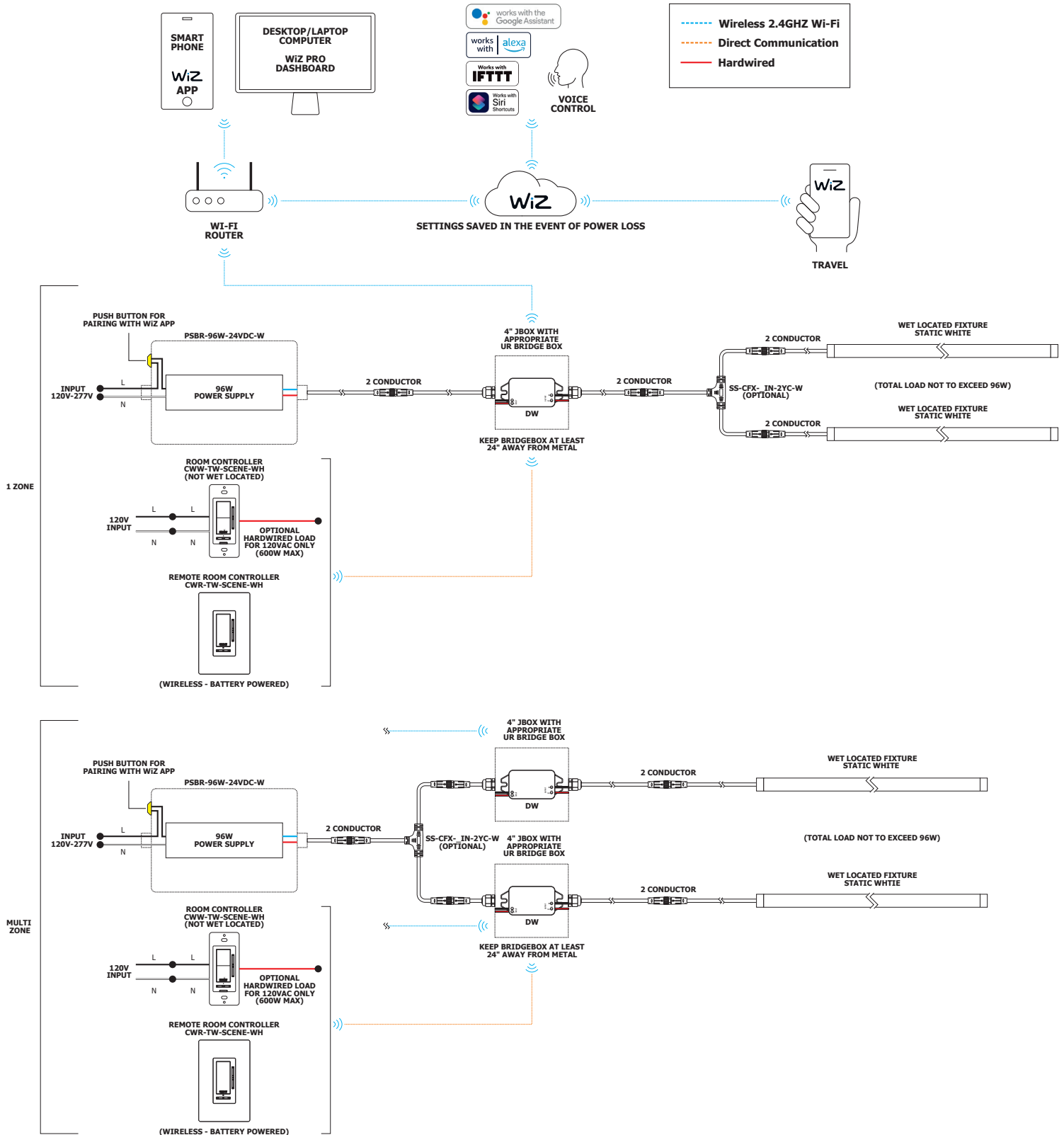
INDOOR WIRING DIAGRAMS



FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

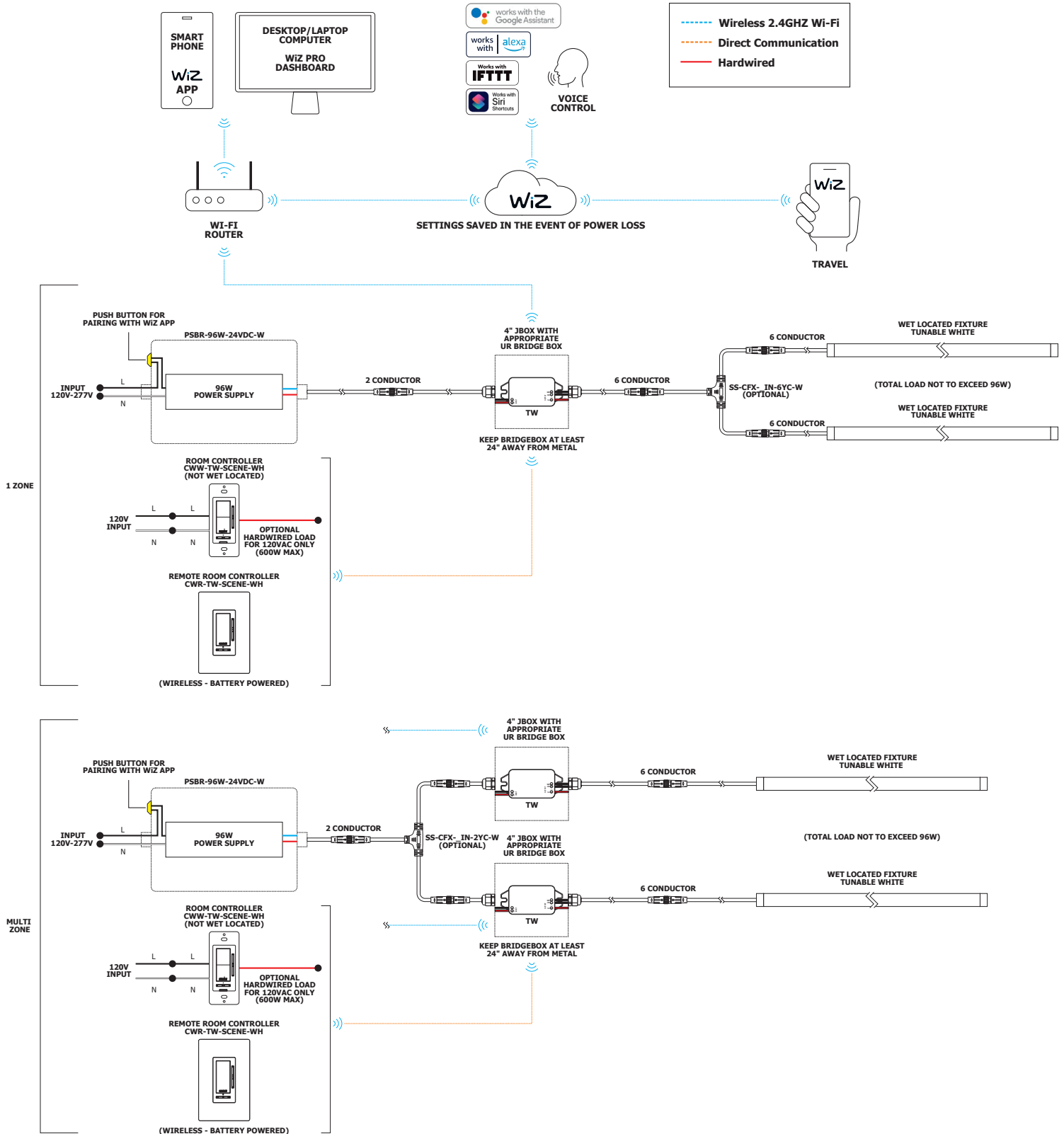
OUTDOOR WIRING DIAGRAMS



FLEX NEON LRF5 BENDS LEFT/RIGHT 0.5" FLAT LENS

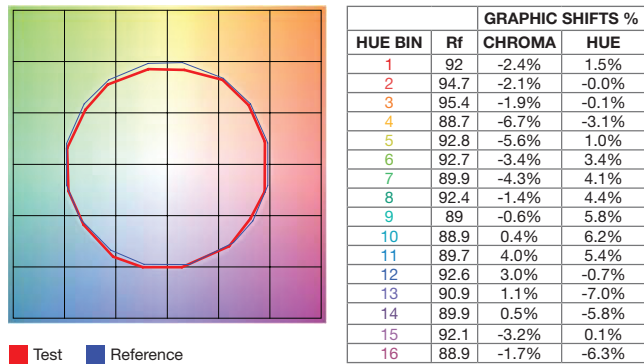
24VDC OUTDOOR / INDOOR STATIC WHITE, WARM DIM & TUNABLE WHITE

OUTDOOR WIRING DIAGRAMS

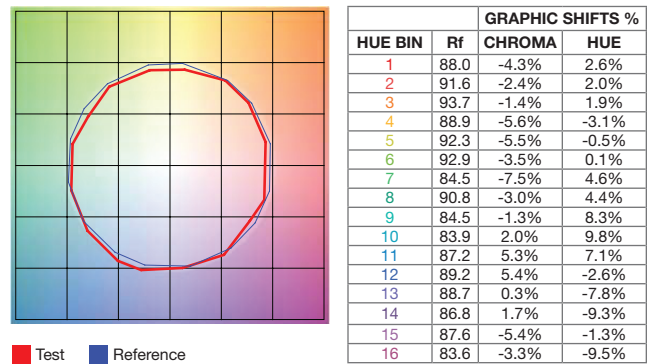


TM-30-15 DATA: The data below is for bare LED Static White Strip. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

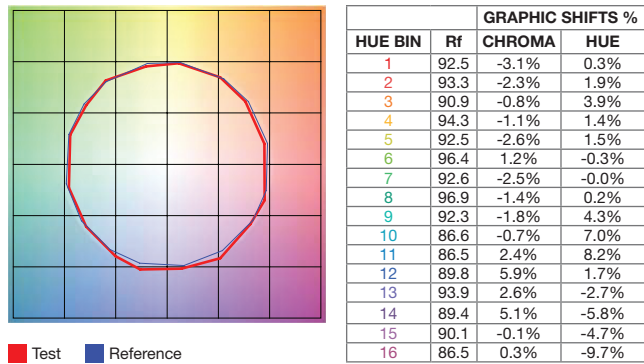
2400K | Rf: 84.5 | Rg: 94.4
Color Vector Graphic



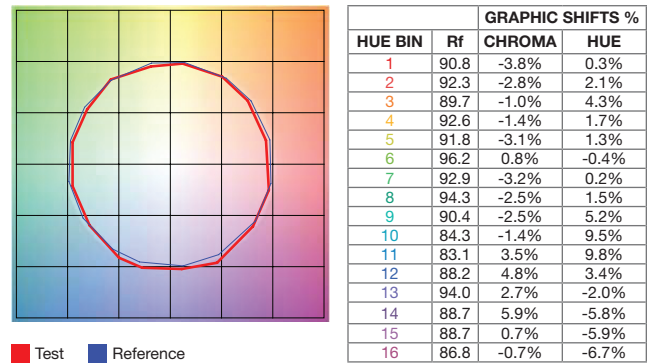
2700K | Rf: 87.7 | Rg: 96.1
Color Vector Graphic



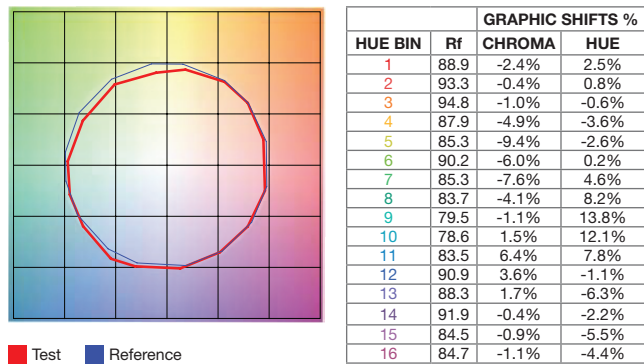
3000K | Rf: 88.1 | Rg: 99.7
Color Vector Graphic



3500K | Rf: 86.1 | Rg: 95.5
Color Vector Graphic

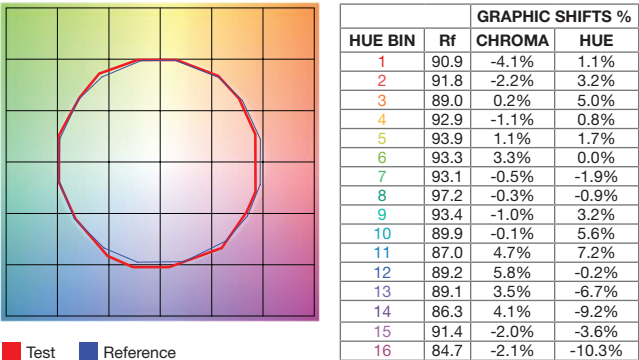


4000K | Rf: 87.6 | Rg: 96.8
Color Vector Graphic

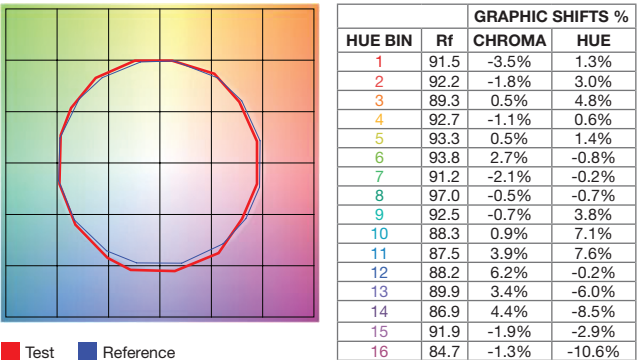


TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2700D | Rf: 90.7 | Rg: 101.1
Color Vector Graphic



3000D | Rf: 90.6 | Rg: 101.1
Color Vector Graphic



3500D | Rf: 93 | Rg: 102
Color Vector Graphic

