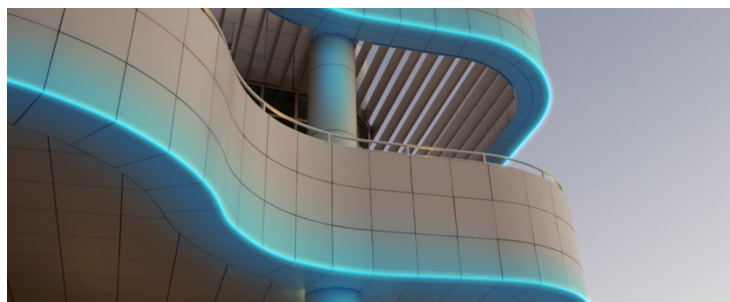


FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 01.29.25

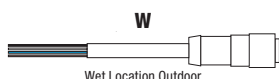


DESCRIPTION

UDF7 Flex Neon Bends UP and Down using a 0.7" wide Flat lens that can be surface or flush-mounted. Flex Neon offers superior color quality and performance while creating uniform illumination without pixelation. The **(W)** is an IP67 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. Flex Neon is offered with both indoor and wet-rated junction boxes sold separately, which include a Pure Smart/WiZ Pro Bridgebox allowing for 5-Channel, full color, wireless control of the TruColor™ **RGBTW** Light Engine with the WiZ Pro Software Suite or Pure Smart Wi-Fi Room Controller (sold separately). Remote Power Supply is required and sold separately. Intended for use with the PSBR Power Supply for Remote Bridgebox (PSBR-96W-24VDC sold separately). 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. Let TruColor™ transform your space and the people within it. Click here for all [Other Color Temperatures](#). Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to our design team: design@PureEdgeLighting.com.

SPECIFICATIONS

| | |
|-----------------------|--|
| DIMENSIONS | Height: 0.5" Width 0.6" (TOP) 0.7" (BOTTOM) |
| LUMEN PERFORMANCE | 303lm/ft 7W @3000K |
| INPUT | 5" wire leads, Remote 24VDC Power Supply (sold separately) |
| POWER CONSUMPTION | 5W5: 5W RGB & 5W Tunable White 5 watts/ft maximum 5W7: 5W RGB & 7W Tunable White 7 watts/ft maximum |
| COMPLIANCE | Class 2 Wet Listed with water-tight Barrel Connectors, IP67. ETL/UL, RoHS |
| POWER SUPPLY | PSBR-96W-24VDC Power Supply for Remote Bridgebox (sold separately) |
| ORDERING INCREMENTS | 3" |
| MAX LENGTH | 5W5 – Pure Smart™ WiZ Pro: 20ft 5W7 – Pure Smart™ WiZ Pro: 12ft |
| BENDING | 4" Minimum Radius |
| MOUNTING | Clips included every 12" |
| MATERIAL | UV Resistant PVC |
| OPERATING TEMPERATURE | -4° F (-20° C) to 122° F (+50° C) |
| AVERAGE LED LIFE | 50,000 hrs |
| WARRANTY | 5 years |



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

24VDC, Class 2 wiring

- [Home Integration Solutions](#)

OUTDOOR/WET LOCATION

- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)

See page 8 for Outdoor Bridgebox (BR-JBC-96W-WZ-TCXXX-W-FN)

INDOOR

- Pure Smart™ WiZ Pro [Power Supplies](#) & [Smart Controls](#)

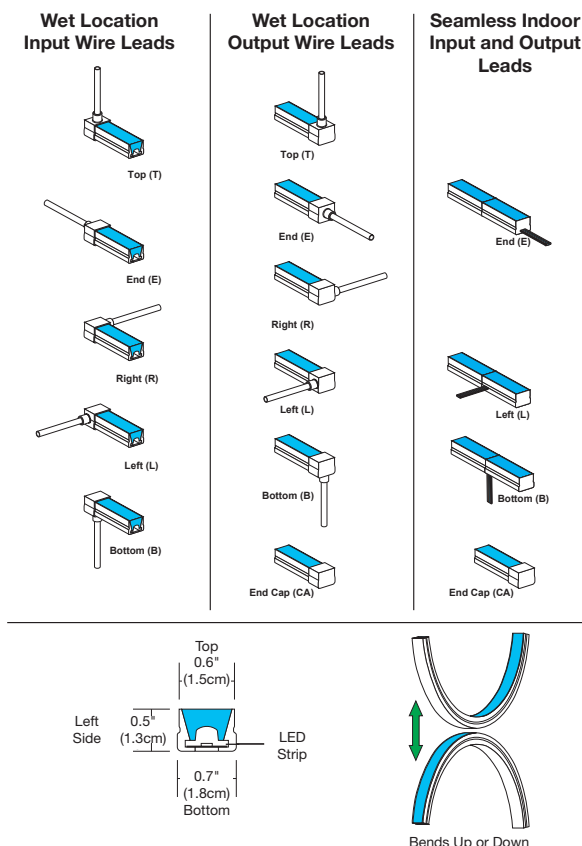
See page 7 for Outdoor Bridgebox (C-1RE4G-96W-WZ-TCXXX-FN)

Pure Smart™ PSBR Power Supply for Remote Bridgebox is developed to support Pure Smart TC TruColor RGBTW luminaires connected by WiZ Pro.

APPLICATIONS

Designed for indoor **(S)** and outdoor **(W)** wet locations. Ideal applications include coves, toe-kick lighting, pathways, steps, music venues, media rooms, and accent lighting.

For quick & easy reference, plus the most up-to-date pricing, use our [Flex Neon UDF7 Configurator](#)



| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

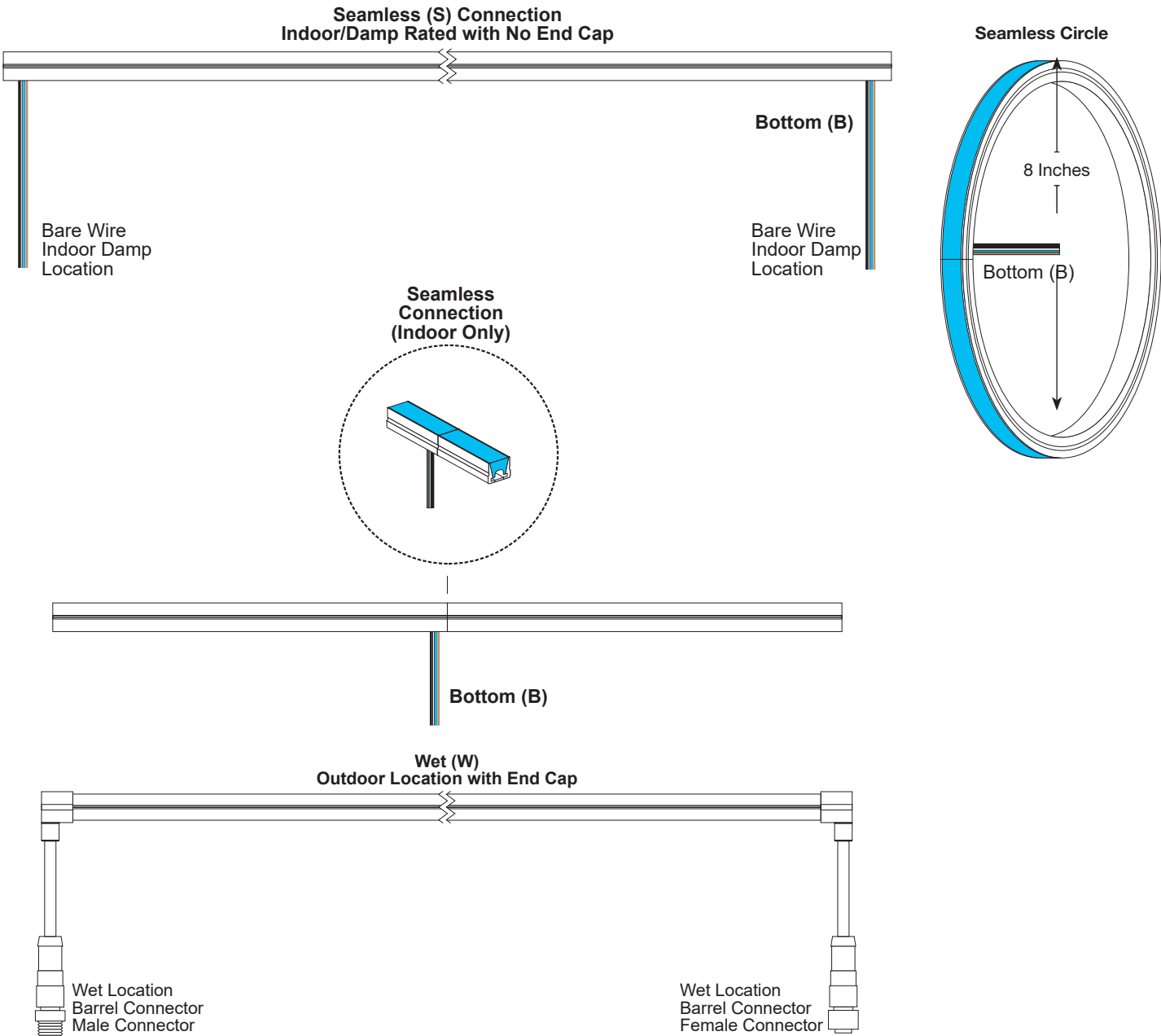
24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

| System | Viewing Angle Model Shape | Wattage | Length in Inches | Color Temperature | 5" Input Wire Feed | 5" Output Wire | Environment |
|-------------------------|---|--|--|--|--|--|---|
| FN | UDF7 | 5W5 | 120 | TC | E | L | W |
| FN Flex Neon 24V | UDF7 Up or Down Bend Flat 0.7"x 0.75" | 5W5 5 watts RGB & 5 watts Tunable White 5W7 5 watts RGB & 7 watts Tunable White | 6-240"(20' max for 5W5) 6-144"(12' max for 5W7) | TC TruColor™ RGBTW Red, Green, Blue & Tunable White 1500K-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 for wet located, no feed through wire for seamless | S Seamless Indoor/Damp location bare wire leads Bottom and Left Feed Only W Outdoor wet location Barrel Connector cable leads |

*Seamless indoor: E, L, B Only

Drawings: Flex Neon UDF7

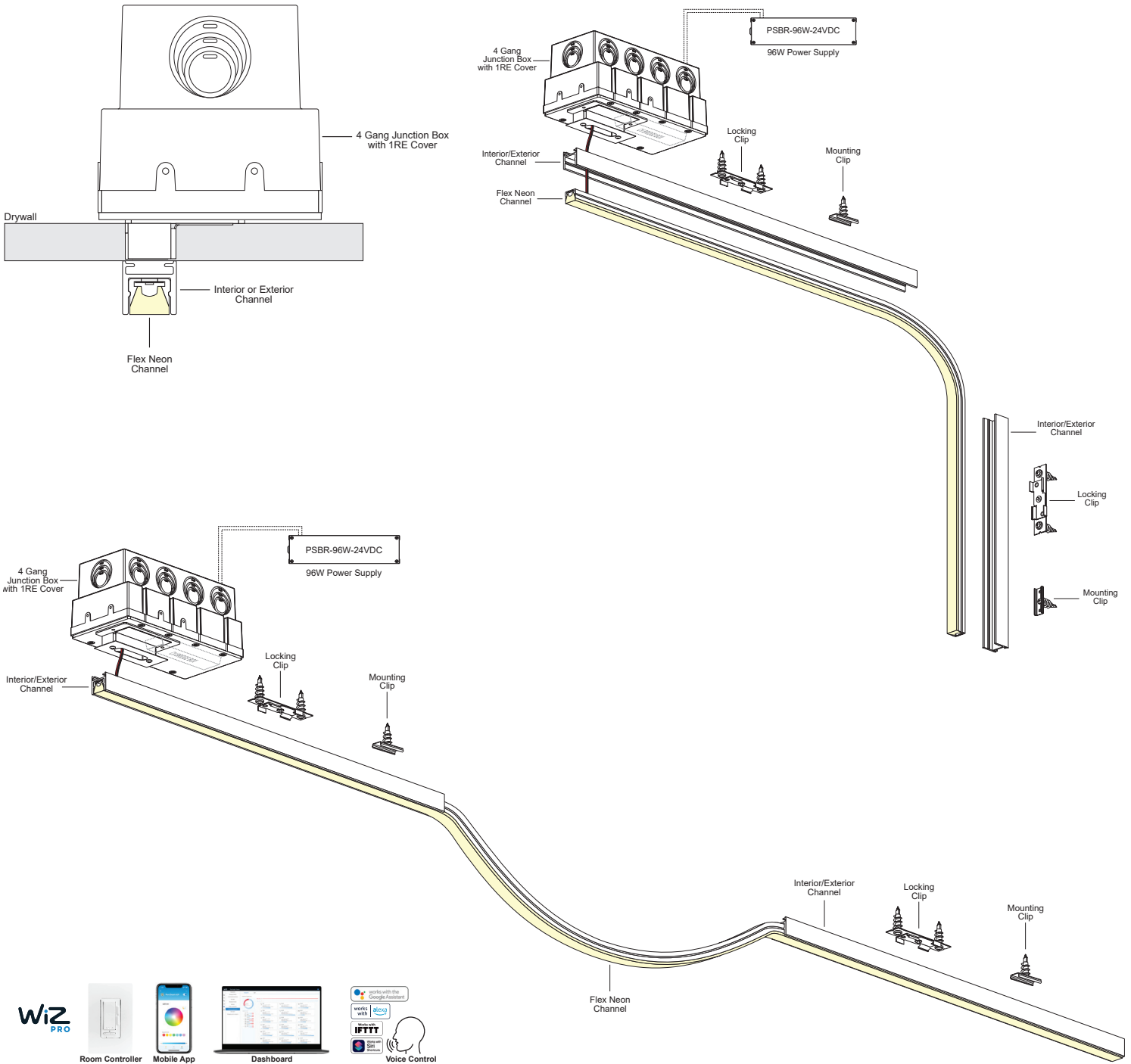
Seamless Connectors are ideal for indoor projects that have multiple segments of Flex Neon but need to look like a continuous run/fixture. Two (E) Endfeeds can not be seamless. Are assembled in the factory – fixtures ready to use.



| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS 24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

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



| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

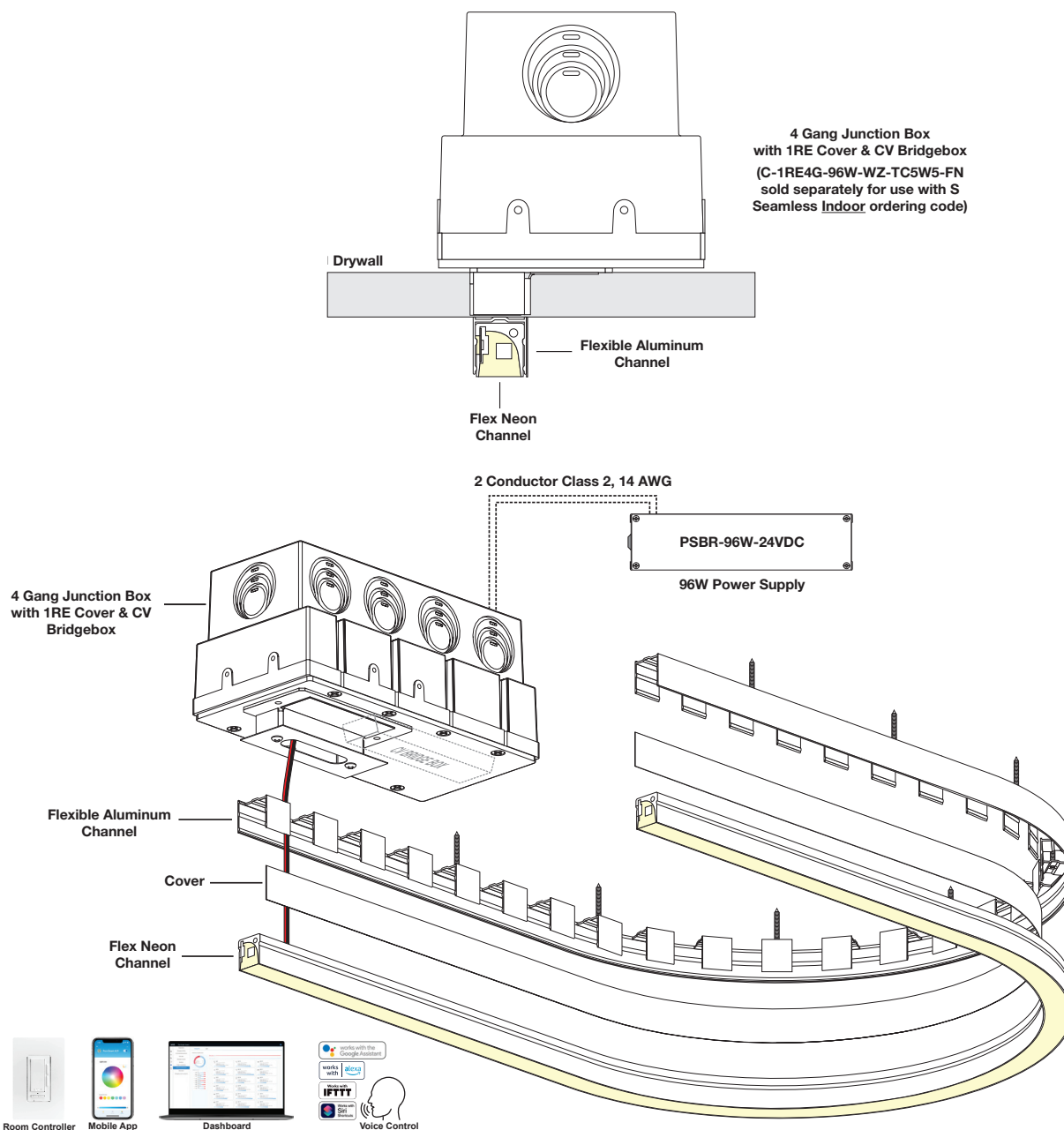
24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

REV 01.29.25

NOMINAL DELIVERED LUMENS

| DESCRIPTION | 5W 5W RGB & 5W TUNABLE WHITE | | | | | | | | | 5W 5W RGB & 7W TUNABLE WHITE | | | | | | | | |
|-------------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------------|--------|-------|-------|-------|--------|------|-------|-------|
| | 5W Tunable White | | | | | | | | | 7W Tunable White | | | | | | | | |
| WATTS PER FOOT | 20K | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K | 20K | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K |
| COLOR TEMPERATURE | 96 | 143 | 174 | 195 | 202 | 213 | 230 | 161 | 149 | 118 | 197 | 253 | 287 | 295 | 310 | 304 | 178 | 162 |
| LUMENS PER FOOT (lm/ft) | 96 | 143 | 174 | 195 | 202 | 213 | 230 | 161 | 149 | 118 | 197 | 253 | 287 | 295 | 310 | 304 | 178 | 162 |
| LUMENS PER WATT (lm/w) | 35 | 32 | 40 | 46 | 47 | 49 | 55 | 55 | 62 | 35 | 51 | 41 | 48 | 48 | 50 | 52 | 52 | 54 |
| 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 |
| Duv | -0.0040 | -0.0012 | -0.0034 | -0.0058 | -0.0055 | -0.0033 | -0.0014 | -0.0049 | -0.0063 | -0.003 | 0.0002 | 0.003 | 0.003 | 0.003 | 0.0009 | 0 | 0.003 | 0.003 |
| Rf | 90 | 90 | 90 | 94 | 97 | 97 | 91 | 81 | 70 | 91 | 90 | 90 | 94 | 95 | 93 | 93 | 79 | 67 |
| Rg | 91 | 93 | 94 | 94 | 95 | 94 | 94 | 92 | 90 | 92 | 93 | 95 | 95 | 95 | 95 | 94 | 92 | 91 |
| R9 | 105 | 101 | 103 | 105 | 104 | 102 | 100 | 102 | 103 | 104 | 100 | 102 | 103 | 103 | 101 | 100 | 102 | 103 |
| R13 | 92 | 94 | 95 | 95 | 94 | 96 | 99 | 90 | 87 | 92 | 95 | 96 | 96 | 97 | 99 | 99 | 91 | 88 |
| R15 | 99 | 99 | 99 | 98 | 97 | 97 | 97 | 89 | 85 | 99 | 99 | 99 | 99 | 99 | 98 | 97 | 90 | 85 |
| WATTS/FOOT | 2.7 | 4.55 | 4.35 | 4.25 | 4.25 | 4.35 | 4.2 | 2.95 | 2.4 | 3.35 | 3.85 | 6.15 | 5.95 | 6.15 | 6.15 | 5.84 | 3.45 | 3 |

Drawings: Exploded View for Flexible Aluminum Channel with 4 Gang Jbox



| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

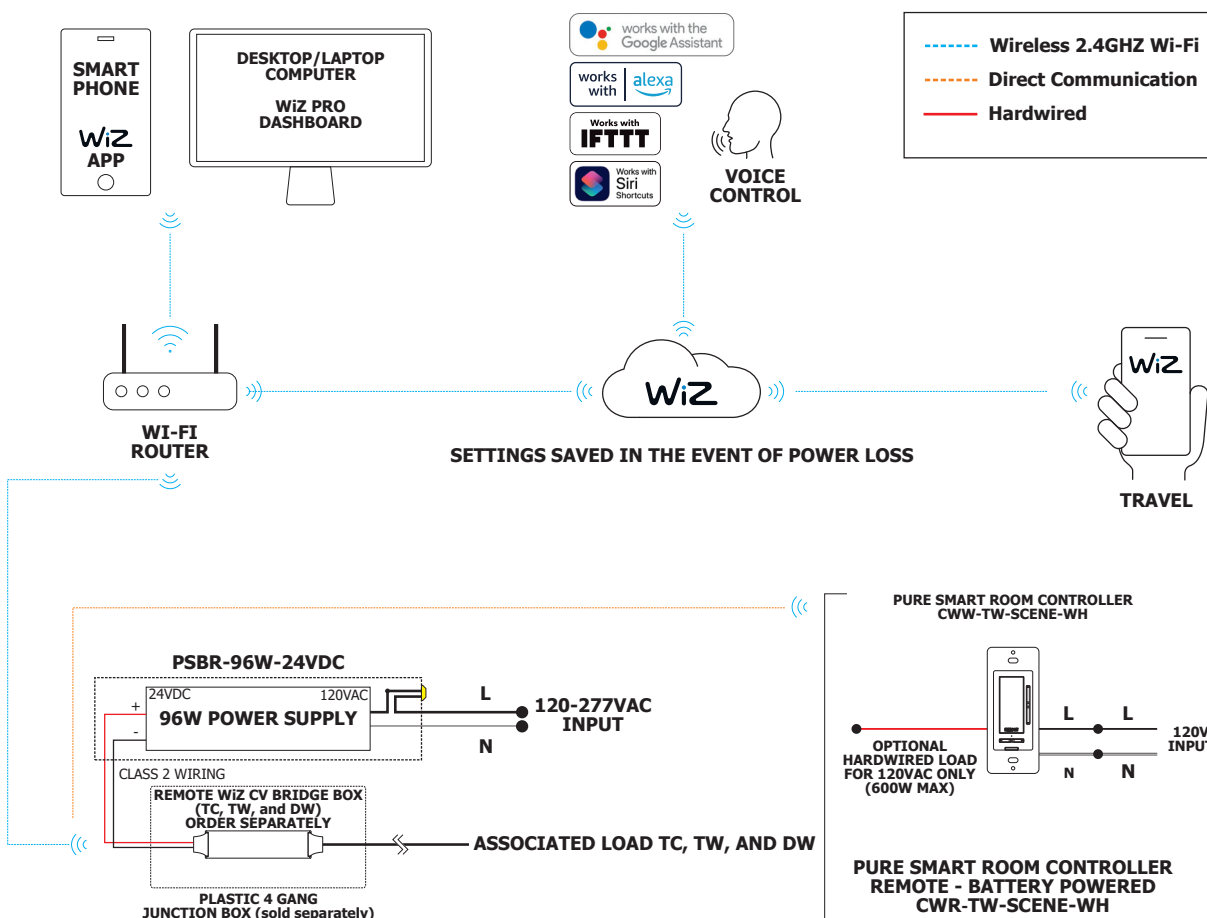
24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

REV 01.29.25

LENGTH CHART Actual lengths for Flex Neon LRF7

| LENGTH CHART - RGBTW | | | | | | | | | | | |
|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|
| 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 |

INDOOR WIRING DIAGRAMS

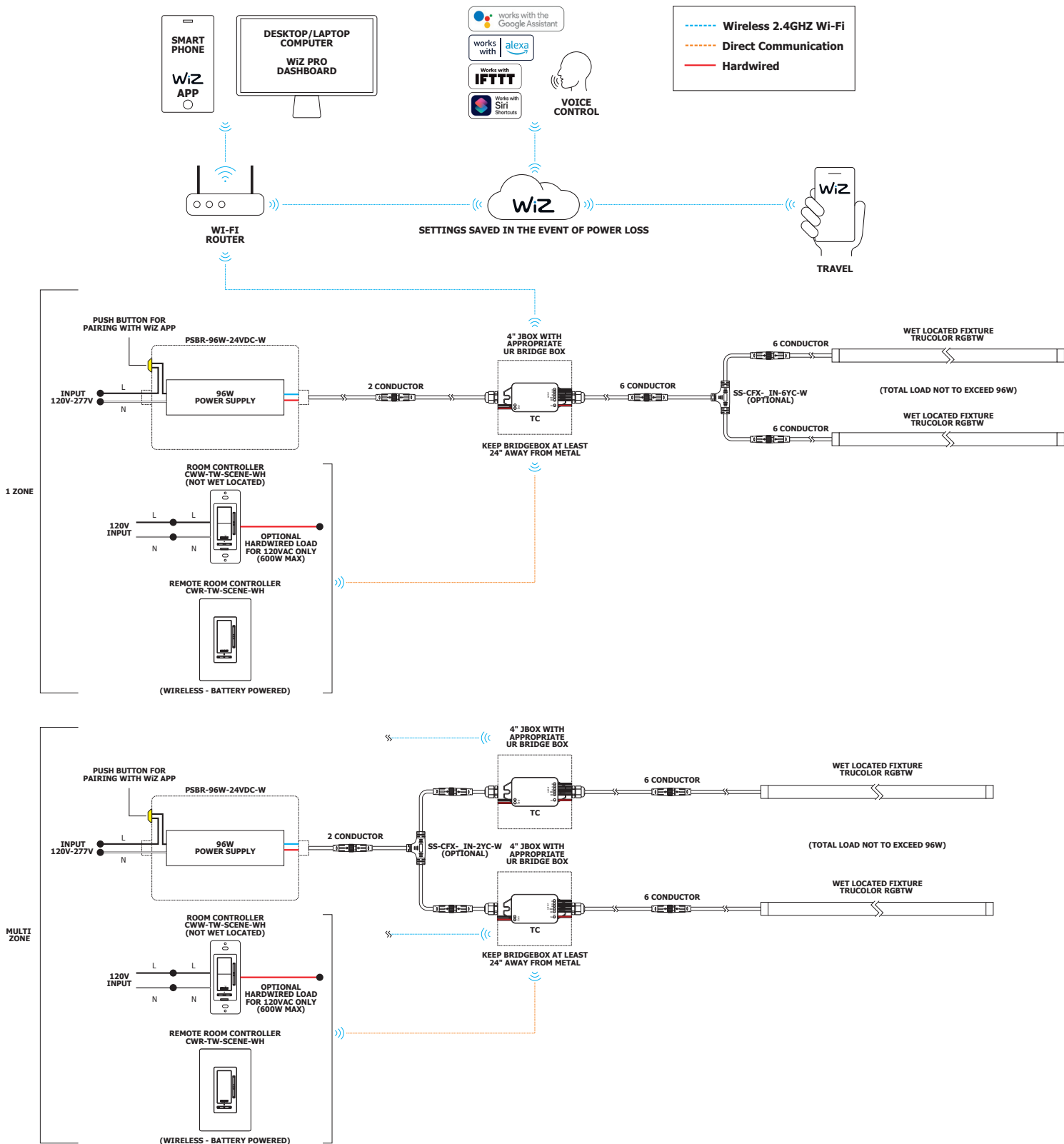


| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 BENDS UP/DOWN 0.7" FLAT LENS

24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

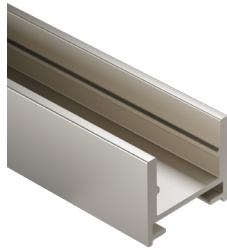
OUTDOOR WIRING DIAGRAMS



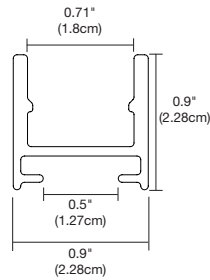
| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 ACCESSORIES AND J-BOXES

24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW



EXT.7 Light Channel



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.

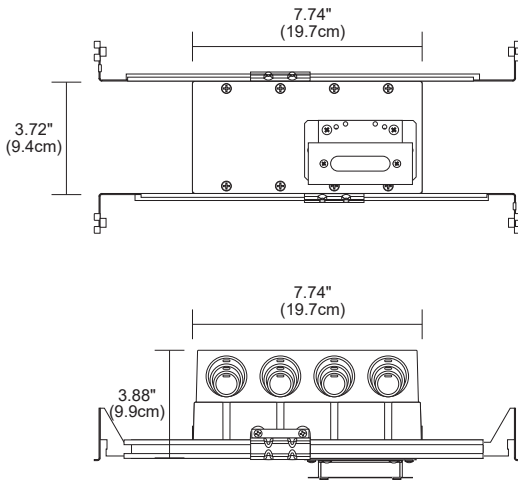
| Product | Length | Finish |
|---------------------------|--|-------------------------------|
| EXT.7 | 10FT | SA |
| EXT.7 Extrusion 0.7" Wide | 4FT 4 Feet 5FT 5 Feet 8FT 8 Feet 10FT 10 Feet | SA Satin Aluminum WH White |



FLEXIBLE 3D CHANNEL

Flexible 3D Channel is designed to flex up/down and left right. Surface or recessed mounting into wood, brick, cement. The channel can make 4 inch radius 90° turns that follow the form of architectural details and soffits.

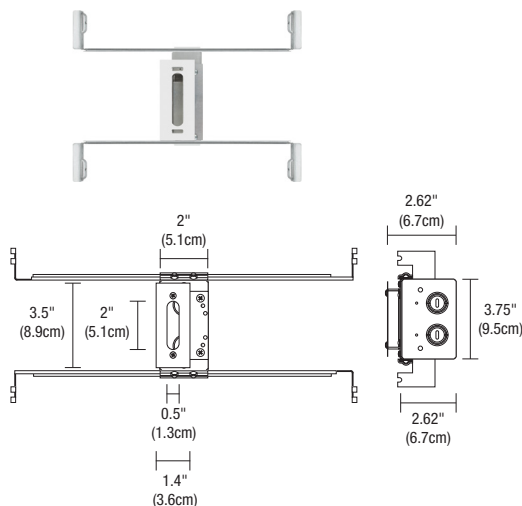
| Product | Length | Finish |
|---------------------------------------|------------|-----------|
| FX3D-EXT.7 | 4FT | CH |
| FX-EXT.7 Flexible Extrusion 0.7" Wide | 4FT 4 Feet | CH Chrome |



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 for 5-channel, wireless control of the TruColor RGBTW Flex Neon Luminaire. Two Class 2, 14 AWG 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 | TC5W5 | FN |
| C Channel | 1RE4G 1" Rectangle Canopy with 4 Gang Junction Box | 96W 96 Watts | WZ WiZ Pro Connected CV Smart Bridgebox Included | TC5W5 TruColor™ 5 watts RGB & 5 watts Tunable White TC5W7 TruColor™ 5 watts RGB & 7 watts Tunable White | FN Flex Neon |



1" RECTANGLE CANOPY & J-BOX

(INCLUDED WITH 1R SELECTED IN FIXTURE ORDERING CODE)

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.

| System | Canopy | Product |
|-----------|------------------|-------------------|
| C | 1RE | JBOX |
| C Channel | 1RE 1" Rectangle | JBOX Junction Box |

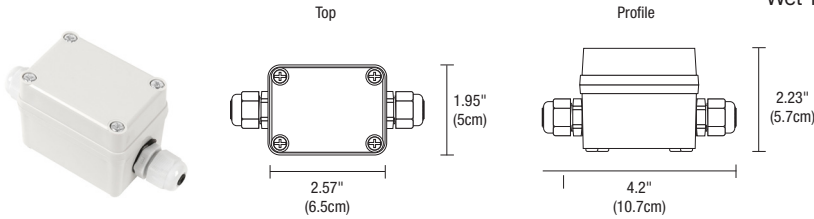
| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|

FLEX NEON UDF7 ACCESSORIES AND J-BOXES

24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

WET LOCATION JUNCTION BOX FOR SPLICING

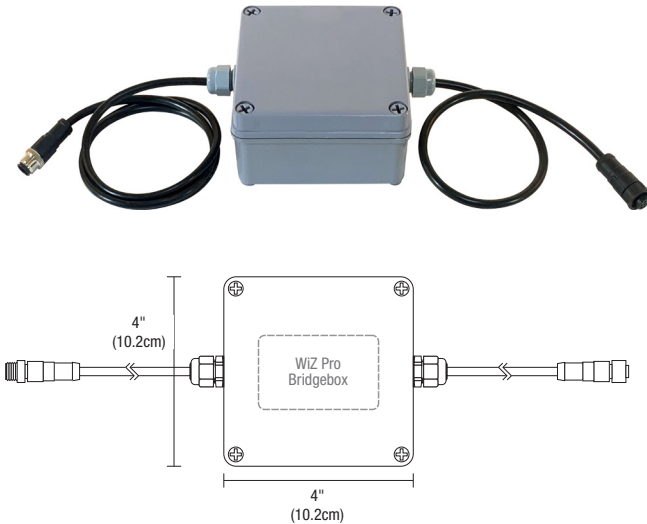
Wet-rated low voltage Splice Box with connectors.



| Product | Type | Option |
|------------------|-------------------|----------------|
| 2RE | JBOX | W |
| 2RE 2" Rectangle | JBOX Junction Box | 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 for 5 Channel wireless control of the TruColor RGBTW luminaire. 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 | Type | Option | System |
|---|--|--------------|-------------------------------------|--|----------------|--------------|
| BR | JBC | 96W | WZ | TC5W5 | W | FN |
| BR Bridgebox for LED Soft Strip and Flex Neon | JBC Outdoor Junction Box with two Barrel Connectors, 4 conductor input and 6 conductor output. | 96W 96 Watts | WZ Wiz Connected Bridgebox Included | TC5W5 5 Watts RGB & 5 Watts Tunable White TC5W7 5 Watts RGB & 7 Watts Tunable White | W Wet Location | FN Flex Neon |

DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

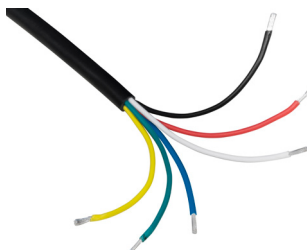
Our Direct Burial, 2 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 40 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



| Product | Gauge | Cable |
|------------------|--------------|----------------|
| DB | 14G | 2C |
| DB Direct Burial | 14G 14 Gauge | 2C 2 Conductor |

WET AND DAMP LOCATION CABLE ORDER PER FOOT

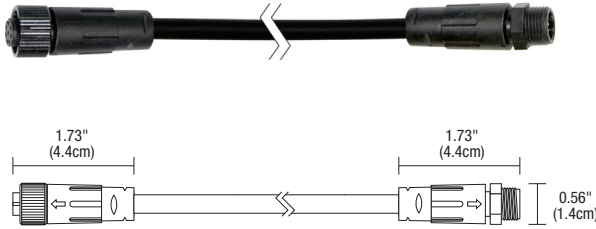
Our Wet Location, 6 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.



| Product | Gauge | Cable |
|------------------|--------------|----------------|
| OC | 14G | 6C |
| OC Outdoor Cable | 14G 14 Gauge | 6C 6 Conductor |

FLEX NEON UDF7 ACCESSORIES AND J-BOXES

24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

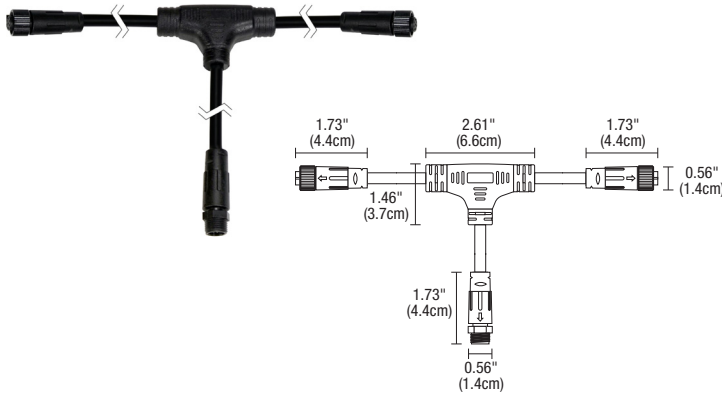


POWER CABLE CONNECTOR WET LOCATION

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.

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 |

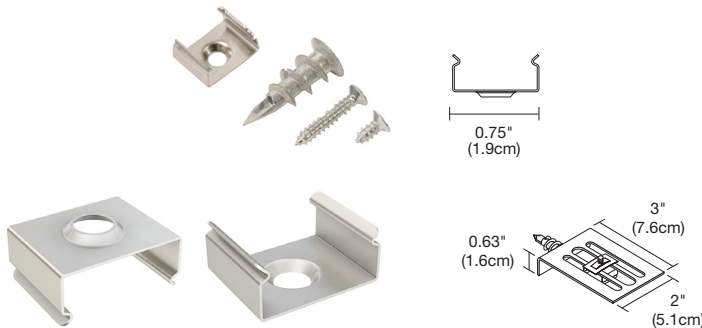


WET LOCATION T-CONNECTOR

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.

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).

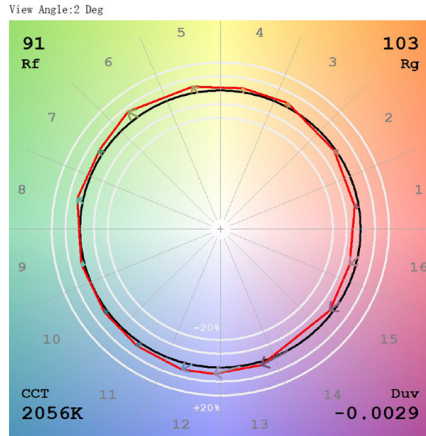
| Product | Type |
|------------------|--------------|
| SS | ST |
| SS LED Flex Neon | ST Tie Strap |

OUTDOOR TM30 DATA

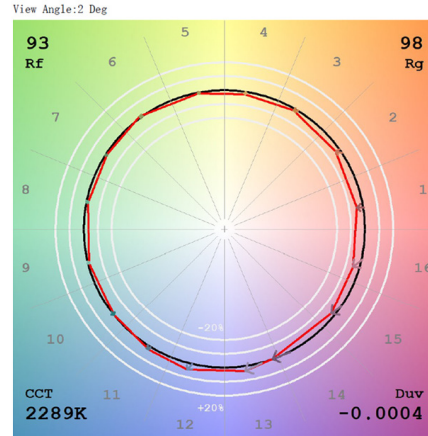
24VDC INDOOR / OUTDOOR TRUCOLOR™ RGBTW

TM-30-15 DATA: The data below is for TruColor™ RGBTW (S5W7) bare LED 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.

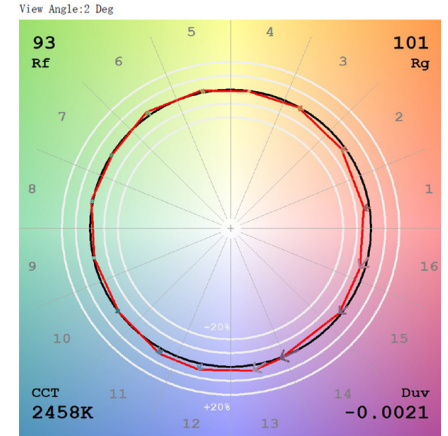
2000K (TruColor™ RGBTW)



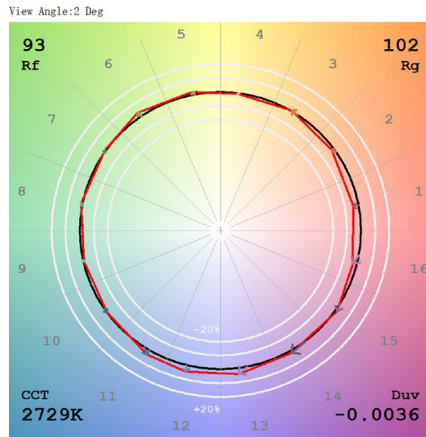
2200K (TruColor™ RGBTW)



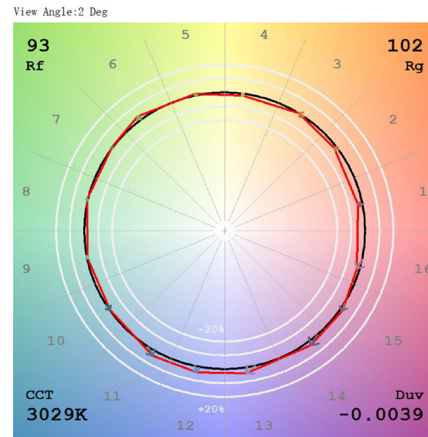
2400K (TruColor™ RGBTW)



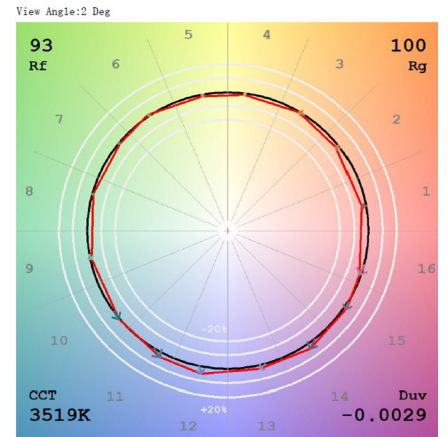
2700K (TruColor™ RGBTW)



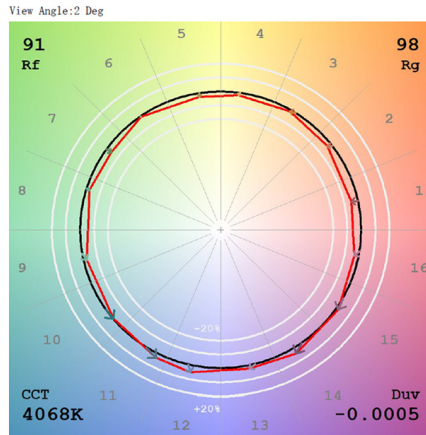
3000K (TruColor™ RGBTW)



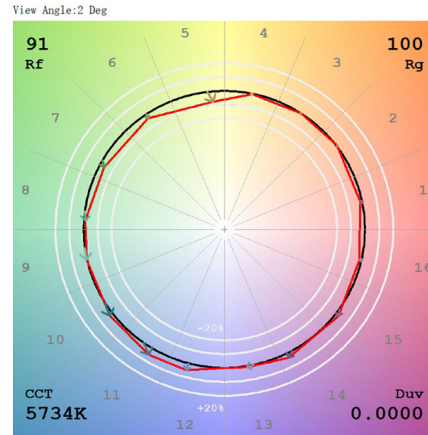
3500K (TruColor™ RGBTW)



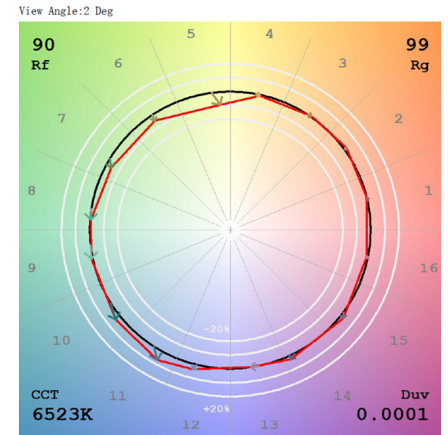
4000K (TruColor™ RGBTW)



5700K (TruColor™ RGBTW)



6500K (TruColor™ RGBTW)



| | | | | | |
|---------|--|--------------|--|------|--|
| PROJECT | | FIXTURE TYPE | | DATE | |
|---------|--|--------------|--|------|--|