# FLEXFIRELEDs

## UltraBright™
# Valor
## Series
## Diffused LED Strip Light

### Product Data Sheet

⚠️  **Please read all instructions carefully before installation.**

## Description

The UltraBright™ Valor Series Diffused LED Strip Light provides an uninterrupted dotless line of light. This means that you will not see the individual dots of individual LEDs when the strip is in direct view or when reflected off of shiny surfaces.

The Valor Series was engineered to be fully diffused, brighter, more reliable for long-term outdoor installation, and lasts much longer with better thermal performance than other "COB LED strip lights" available in the market. Its high chip density and specialized silicon diffusion sleeve creates beautiful seamless line of light. Unlike the competitor's COB-style strips, this light is very bright, boasting 805 lumens per foot with a CRI over 90!

With a watertight IP67 protection rating, it is also the preferred outdoor-use high-brightness strip light. It's fully dimmable and can be controlled with PWM controllers, AC dimmers, and DMX controllers.

7-Year Warranty          CE          RoHS COMPLIANT          c UL us LISTED (LOW VOLTAGE LUMINAIRE) E362522

## Product Features

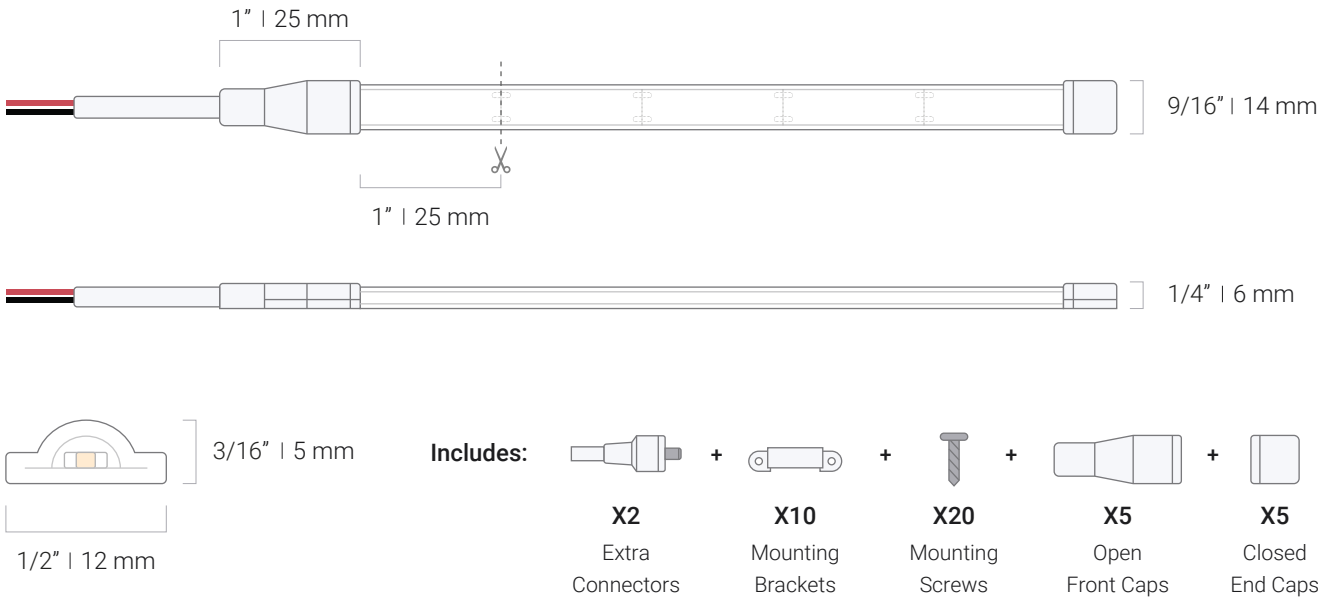| | |
|---|---|
| **Voltage** | 24V DC Input |
| **Efficacy** | Up to 119 lm/W |
| **Lumens** | Up to 805 lm/ft (2642 lm/m) |
| **LEDs/ft** | 93 LEDs/ft (308/meter) |
| **Beam Angle** | 120° Beam Angle |
| **Ambient Temp** | -4°F to 113°F (-20°C to 45°C) |
| **Strip Width** | 1/2" (12 mm) |
| **Strip Height** | 1/4" (5 mm) |
| **Cutting Points** | 1" (25 mm) |
| **Maximum Run Length** | 16'5" (5 m) |
| **LED Size** | 2835 |
| **Dimmable** | Yes |
| **Compatible Dimming Methods** | PWM, TRIAC, DMX, or 0/1-10V dimmers |
| **Spool Size** | 16'5" (5 m) |

## Product Specifications

| Product SKU | CCT | Watts/Foot (Meter) | Lumens/Foot (Meter) | Luminous Efficacy Lumens/Watt | CRI | Gamut Score Rg (Color Sat.) | Relative Fidelity Score (Rf) | TLCI (Qa) | CQS |
|---|---|---|---|---|---|---|---|---|---|
| IP67-UB-VA-30K | 3000K | 7.3 W/ft (24 W/m) | 750 lm/ft (2460 lm/m) | 110 lm/W | 94 | 99 | 92 | 95 | 93 |
| IP67-UB-VA-50K | 5000K | 7.3 W/ft (24 W/m) | 805 lm/ft (2642 lm/m) | 119 lm/W | 94 | 98 | 90 | 95 | 91 |

## Ordering Code

| IP Rating | Brand | Series | CCT | Voltage | Length |
|---|---|---|---|---|---|
| **IP67** | **UB** UltraBright™ | **VA** Valor | **30K** - 3000K **50K** - 5000K | **24V** | **16FT** 16.4 ft Reel |

## Dimensions



1" | 25 mm

1" | 25 mm

9/16" | 14 mm

1/4" | 6 mm

3/16" | 5 mm

1/2" | 12 mm

Includes:

X2 Extra Connectors + X10 Mounting Brackets + X20 Mounting Screws + X5 Open Front Caps + X5 Closed End Caps

## Controller Options

**PWM Dimming**

Leona™

▶AC  **Mean Well
Power Supply**  DC▶

Leona™ Smart
Home Controller

+

-

**ELV/MLV Dimming**

120V AC
Power

**N**  **L**

ZURiK  Lighting
Transformers
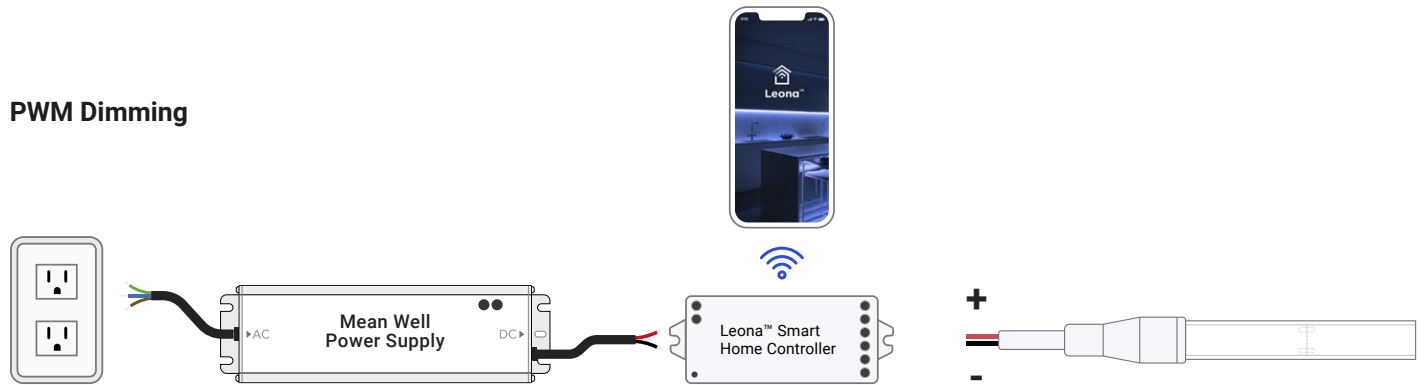
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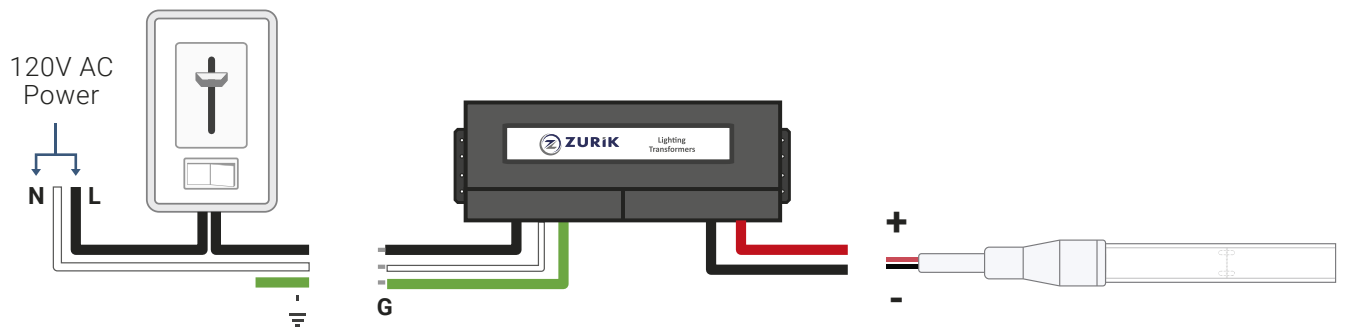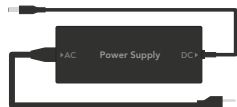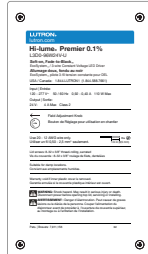
## Compatible Aluminum Extrusions

| Name | Type | Included Accessories | Covers | Kit SKU | Mockup |
|------|------|---------------------|--------|---------|--------|
| **Ion™** | Surface Mount | - | - | SKU: ION-CH-A-1M | |
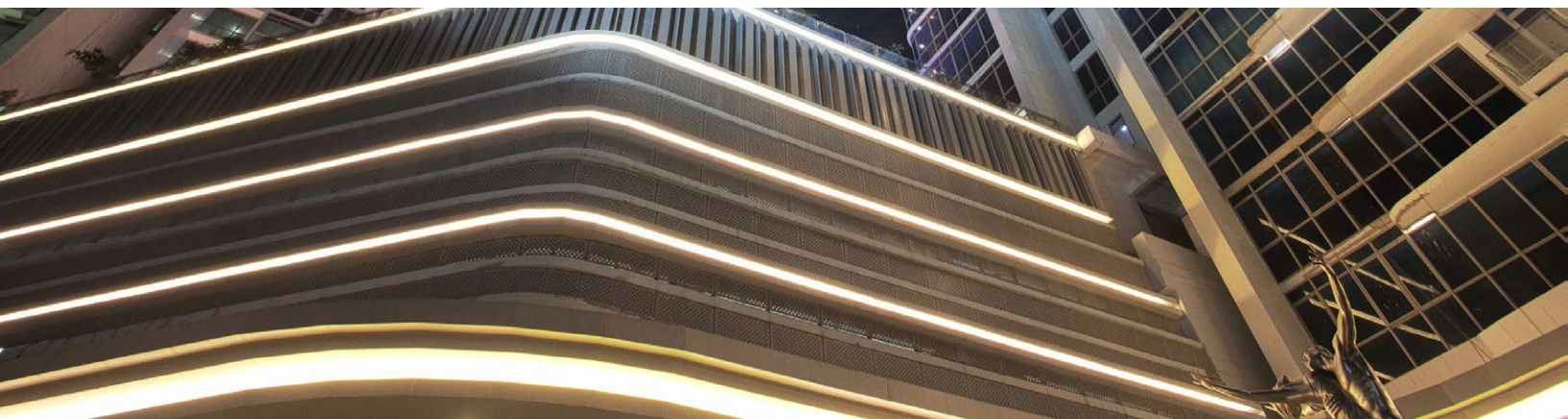
# Compatible Drivers

| | Power Supply | LED Strip Length | Watts | Product SKU | Diagram |
|---|---|---|---|---|---|
| **Non-dimmable** | **Plug-In Power Supply** | 1 - 2 ft | 24 W | 24V-WMPS2-1 | |
| | | 3 - 6 ft | 60 W | 24V-DPS2-2.5 | |
| | | 7 - 10 ft | 96 W | 24V-DPS2-4 | |
| | | 11 - 13 ft | 120 W | 24V-DPS2-5 | |
| | **Mean Well™ HLG** | 1 - 4 ft | 40 W | HLG-40H-24A | |
| | | 5 - 7 ft | 60 W | HLG-60H-24A | |
| | | 8 - 12 ft | 96 W | HLG-100H-24A | |
| | | 13 - 14 ft | 120 W | HLG-120H-24A | |
| | | 15 - 22 ft | 185 W | HLG-185H-24A | |
| | | 23 - 29 ft | 240 W | HLG-240H-24A | |
| | | 30 - 39 ft | 320 W | HLG-320H-24A | |
| | | 40 - 73 ft | 600 W | HLG-600H-24A | |
| | **Mean Well™ LPV** | 1 - 2 ft | 20 W | LPV-20-24 | |
| | | 3 - 4 ft | 36 W | LPV-35-24 | |
| | | 5 - 7 ft | 60 W | LPV-60-24 | |
| **Dimmable** | **Zurik® EMLV** | 1 - 3 ft | 30 W | ZRK-EMLV2-30W-24VDC | |
| | | 4 - 7 ft | 60 W | ZRK-EMLV2-60W-24VDC | |
| | | 8 - 11 ft | 96 W | ZRK-EMLV2-96W-24VDC-J | |
| | | 12 - 14 ft | 120 W | ZRK-EMLV2-120W-24VDC-J | |
| | | 15 - 24 ft | 200 W | ZRK-EMLV2-200W-24VDC-J | |
| | | 25 - 36 ft | 300 W | ZRK-EMLV2-300W-24VDC-J | |
| | **Zurik® Universal** | 1 - 3 ft | 30 W | ZRK-UNV-30W-24VDC | |
| | | 4 - 7 ft | 60 W | ZRK-UNV-60W-24VDC | |
| | | 8 - 11 ft | 96 W | ZRK-UNV-96W-24VDC | |
| | | 12 - 14 ft | 120 W | ZRK-UNV-120W-24VDC | |
| | | 15 - 24 ft | 200 W | ZRK-UNV-200W-24VDC | |
| | | 25 - 36 ft | 300 W | ZRK-UNV-300W-24VDC | |
| | | 1 - 23 ft (Up to 11 ft/unit) | 192 W | ZRK-UNV-C192W-24VDC | |
| | | 1 - 47 ft (Up to 11 ft/unit) | 384 W | ZRK-UNV-C384W-24VDC | |
| | **Lutron® Hi-Lume™** Premier 0.1% Constant Voltage Driver | 1 - 13 ft | 96 W | L3D0-96W24V-U | |

**Description:**

Hi-Lume Premier 0.1% EcoSystem 24V constant voltage LED driver Soft-on, Fade-to-Black dimming technology

**Dimming Range:**

0.1-100%

⚡LUTRON.

# Installation Instructions

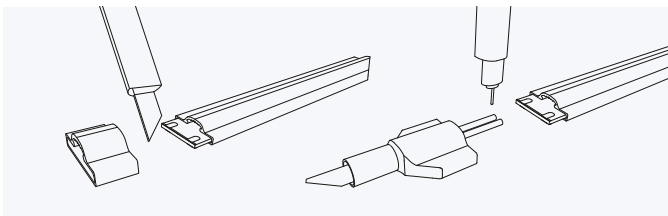Please refer to the installation document included in the package for detailed instructions.
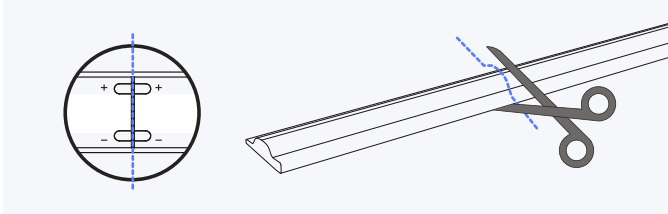


**1.** Cut 3 mm off the silicone cover, enough to expose the copper solder pads. Take the stranded wires you wish to solder onto the strip and feed it through the front end cap. Solder the wire to the solder pads on the strip, making sure that they are not crossing and there is no tin spilling over into the next solder pad. Then, fill the front end cap with silicone and push it over the solder pads, making a snug fit. Make sure it is properly adjusted before letting the sealant cure according to its instructions.
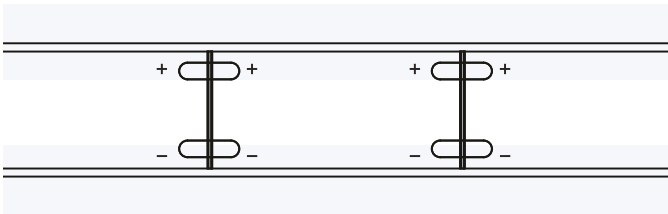


**2.** Make sure polarity is matched throughout the setup.

**3.** Attaching Additional Wire and Capping Exposed End:



**Method 1 - Soldering & End Caps:**

Cut 3 mm off the silicone cover, enough to expose the copper solder pads. Take the stranded wires you wish to solder onto the strip and feed it through the front end cap. Solder the wire to the solder pads on the strip, making sure that they are not crossing and there is no tin spilling over into the next solder pad. Then, fill the front end cap with silicone and push it over the solder pads, making a snug fit. Make sure it is properly adjusted before letting the sealant cure according to its instructions. When using the end caps, repeat the last step for the opposite side of the strip.
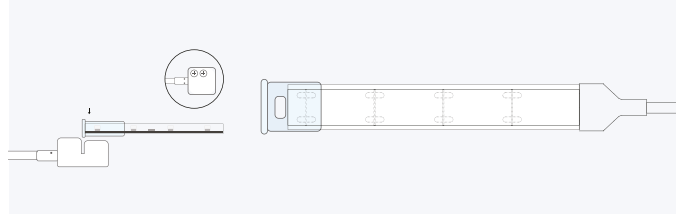
**Method 2 - IP65 Solderless Grip Connectors:**

Carefully peel off 2" of the adhesive tape and its backer from the back of the LED strip light and push it back to make room for the connector. This will allow the silicone to seal properly and ensure that water is not pulled into the seal.

Coat the open end of the strip and approximately 1" of the top of the strip in silicone sealant. (Due to the dome-shaped nature of the strip, sealant does need to be applied to the top to fill in the gaps on the sides).

Slide the transparent case of your Outdoor IP65 Grip connector into the sleeve, until the strip is making proper contact with the end of the clear plastic. Then, grab the white plastic part of your connector and push the metal contacts through the window of the transparent case. Adjust it with pliers until you hear a click, and then let the sealant cure according to its own instructions.
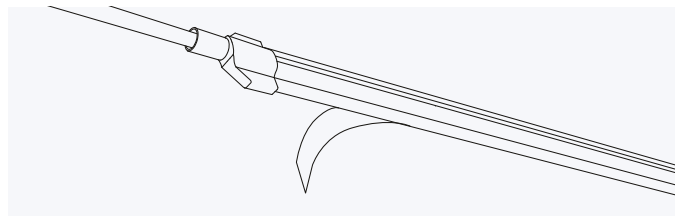


**4.** Peel the rest of the 3M tape cover a few inches at a time while gently pressing the strip to the installation surface. Make sure the strip is secured on the surface. Use mounting clips to ensure permanent adhesion.

# Safety And Disclosures

1. To meet UL requirements, only install with a Class 2 DC Constant Voltage LED driver.

2. Installation must be in accordance with local and national electrical code regulations. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.

3. Do not turn on your LED Strip when it is still in the plastic reel. This will cause a buildup of heat that can damage the LEDs.

4. Do not directly hook the DC strip up to an AC wall outlet.

5. Do not twist, fold or crease LED Strip.

6. Do not bend the LED strip horizontally (sideways). It is only intended to bend vertically.

7. Do not place excessive pressure on the LED surface.

8. Do not install within 5 feet of a swimming pool or spa.

9. Pay attention to the input voltage of the LED strip light and never exceed that voltage, even briefly.

10. Only cut the LED strips on the designated cut markings.

11. UltraBright™ Valor Premier Diffusion Series LED Strip Lights are IP67 rated. Please keep in mind that cutting the strip voids the IP rating.

# Warranty Information

### Limited Warranty
This product has a 7 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at https://www.flexfireleds.com/warranties/ within the Policies section. For warranty related questions please contact the product support team at (support@flexfireleds.com).

### Consumer's Acknowledgment
Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser. This limited warranty does not include product failures that are the result of: Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

# FLEXFIRELEDs

## Contact Information

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