

Outdoor UltraBright™
**Verity SOB Diffusion
Series LED Strip Light**

 **PRECAUTION:** Please read all instructions carefully before installation.

Our Outdoor (IP65) UltraBright™ Verity SOB Diffusion Series LED Strip Light delivers fully diffused, dot-free illumination with added protection against debris and low-pressure water jets. Encased in a durable silicone jacket, it combines the efficiency of SMD strip lighting with the sleekness of COB technology, making it ideal for accent and task lighting in bathrooms, kitchens, patios, and commercial outdoors.



Product Features

Voltage	24V DC
Wattage	4 W/ft (13.1 W/m)
Brightness	Up to 432 lm/ft (1,417 lm/m)
Efficacy	Up to 107 lm/W
CRI	High CRI of up to 93
Number of LEDs	98 LEDs/ft (320 LEDs/m)
Beam Angle	120°
Strip Width	3⁄8" (10 mm)
Cutting Points	1" (25 mm)
Max Run Length in Series	32 ft (10 m)
PCB	3 oz Copper
Adhesive Type	3M LSE 9495
Ambient Temperature	-4°F to 104°F (-20°C to 40°C)
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Dimmable	Yes
IP Rating	IP65: Outdoor Wet Location

7-Year
Warranty



**TITLE
24**
REQUIREMENTS



Title 24 is regulated for lamps with color temperatures 4000K and below.

Ordering Code

IP Protection

-

Brand

-

Series

-

CCT

-

Voltage

-

Length

IP65

UB

VE

24V

16FT

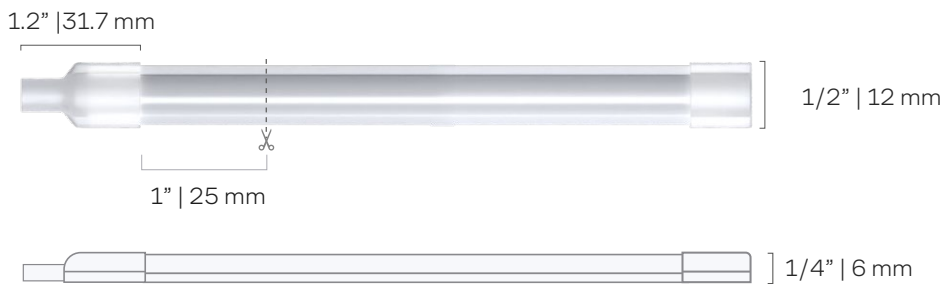
UltraBright™

Verity Series

30K: 3000K
50K: 5000K

Example: IP65-UB-VE-30K-24V-16FT

Dimensions



Included Accessories:

x1

186 mm

12 mm

Weatherproof Female Connector (90 cm)

x1

186 mm

8.5 mm

15.5 mm

Weatherproof Male Connector (90 cm)

x10

W: 16.5 mm L: 14.6 mm H: 10.5 mm

x2

W: 14.5 mm L: 31.7 mm H: 6.8 mm

x2

W: 14.5 mm L: 16.8 mm H: 6.8 mm

Product Specifications

Product SKU	Color* (CCT)	Watts/Foot (Meter)	Lumens/Foot (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)
IP65-UB-VE-30K	3000K	4 W/ft (13.1 W/m)	399 lm/ft (1,310 lm/m)	94	93	99	88
IP65-UB-VE-50K	5000K	4 W/ft (13.1 W/m)	432 lm/ft (1,417 lm/m)	107	93	98	87

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Complete Your Setup



✓ Drivers



✓ Controllers & Dimmers



✓ Connectors

Compatible Drivers (24V)

Non-dimmable

Power Supply	Diagram	LED Strip Length	Product SKU	Watts	Class 2
Plug-In Power Supply Plug-and-Play Power Supply		1-4 ft	24V-WMPS2-1	24W	X
		5-19 ft	24V-DPS2-4	96W	X
Mean Well™ HLG Hardwired Power Supply		1-12 ft	HLG-60H-24A	60 W	X
		13-19 ft	HLG-100H-24A	96 W	X
		20-37 ft	HLG-185H-24A	185 W	
		38-64 ft	HLG-320H-24A	320 W	
		64-120 ft	HLG-600H-24A	600 W	
Mean Well™ LPV Hardwired Power Supply		1 - 12 ft	LPV-60-24	60W	X

Dimmable

Power Supply	Diagram	LED Strip Length	Product SKU	Watts	Class 2
Zurik® Universal Hardwired Power Supply		1-6 ft	ZRK-UNV-30W-24VDC	30 W	X
		7-12 ft	ZRK-UNV-60W-24VDC	60 W	X
		13-19 ft	ZRK-UNV-96W-24VDC	96 W	X
		20-24 ft	ZRK-UNV-120W-24VDC	120 W	
		24-40 ft	ZRK-UNV-200W-24VDC	200 W	
		40-60 ft	ZRK-UNV-300W-24VDC	300 W	
		76 ft (up to 19 ft/output)	ZRK-UNV-C384W-24VDC	384W	X
Lutron® Hi-Lume™ Premier Hardwired Power Supply		1-19 ft	L3D0-96W24V-U	96W	X
		Dimming Range: 0.1-100%			

Compatible Controllers & Dimmers



Handheld Remotes



Wall Dimmers



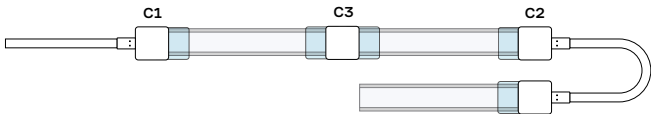
Smart Home Controllers

[See Controllers and Dimmers](#)

Compatible Strip Light Connectors

Product SKU	Diagram	Description	Wire Gauge	Amperage Limit*
IP65-GRIP-SC-C1-10-40		Connector with 40" of wire to attach the strip to a power supply or low voltage control.	20 AWG	5 Amps
IP65-GRIP-SC-C2-10-08		Connector with 40" of wire to attach the strip to a power supply or low voltage control.		
IP65-GRIP-SC-C3-10-0		Jumper connector with no wire to attach sections of strip together in a continuous run.	-	

* Do not exceed 5 amps downstream of any solderless connector. To determine the maximum allowable LED strip length after the connector, use a current draw of 0.17 A/ft (0.55 A/m) at 24 volts.

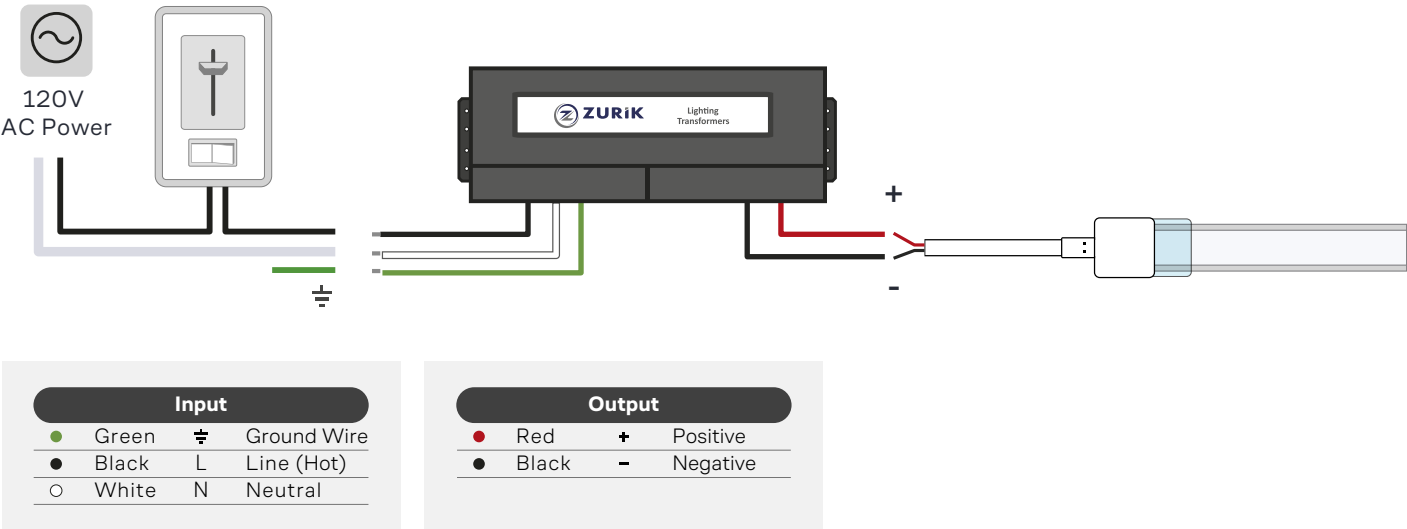


Strip Light Connectors Installation

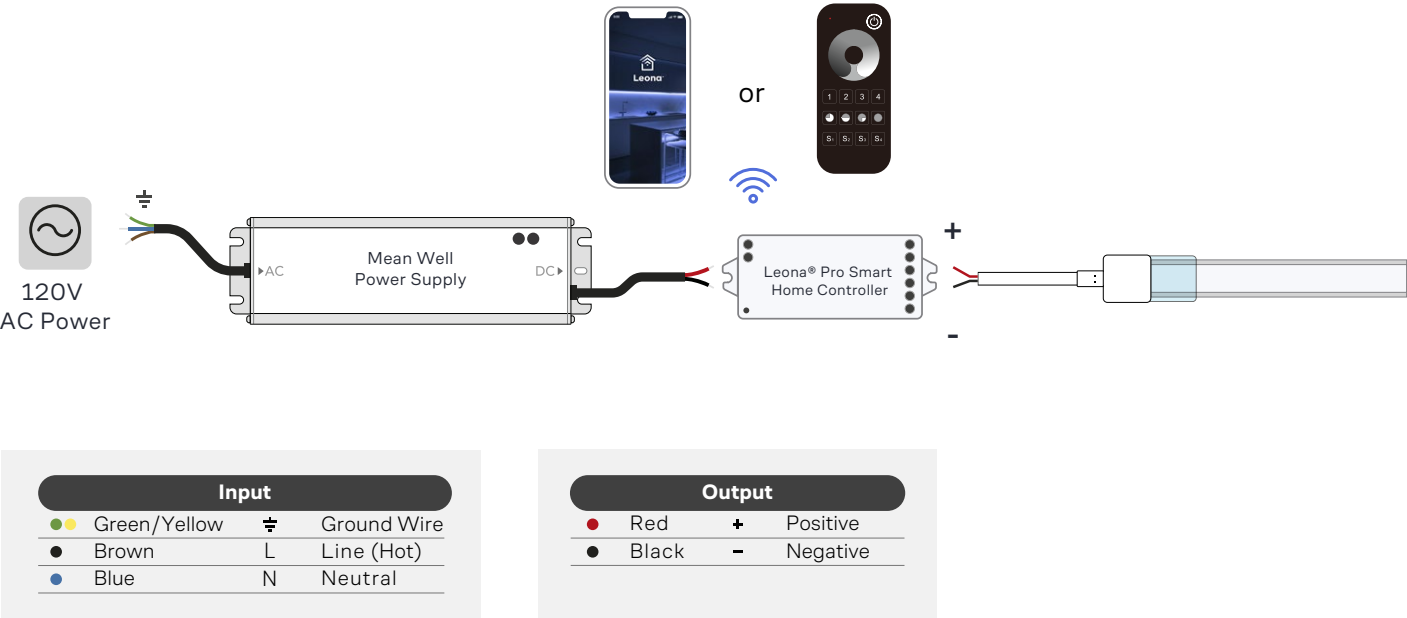
- Cut the LED strip light and the silicone sleeve at the cutting point where you want to install the connector. The cutting marks are located on the back of the strip.
- Remove approximately $\frac{3}{8}$ " of the silicone protective cover from the top of the strip using a craft knife or another precision cutting tool to allow the connector to fit properly. Be careful not to remove the inner protective cover over the LEDs.
- Verify the strip polarity, matching positive (+) to positive (+) and negative (-) to negative (-). Remove 2" of the adhesive tape and its backing from the back of the strip light.
- Apply silicone sealant liberally inside the silicone sleeve until ensuring it is completely sealed.
- Slide the transparent case of your outdoor IP65 grip connector into the sleeve with the window of the case facing upward, until you're sure that the strip is making proper contact.
- Grab your connector and push the metal contacts through the window of the transparent case. Adjust it with pliers until you hear a click, and let the sealant cure according to its own instructions.

Wiring Diagrams

120V Wall Dimmer



In-Line Dimming



Safety And Disclosures

- 01.** 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.
- 02.** Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.
- 03.** Do not install in an environment where excessive heat may exist.
- 04.** LED strip lights must be handled with care. Excessive handling, bending, or pressure may damage the product, voiding the warranty.
- 05.** Do not secure this product with staples, nails, or other materials that could damage it. Keep these instructions for future reference.
- 06.** Do not cover this product with any combustible material, such as paper or fabric.
- 07.** Do not install if the majority of the product is unsupported. Allowing the product to be suspended or to dangle during installation may damage the PCB due to the weight of the strip and/or spool.
- 08.** Do not install within 5 feet of a swimming pool or spa.
- 09.** Unless otherwise stated as appropriate, do not use the product in direct sunlight or in close proximity to caustic substances such as saltwater, chlorine, bromine, etc.
- 10.** Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 11.** Make sure the appropriate gauge wire is installed between the driver, LEDs, and any dimmers. When choosing wire, calculate the voltage drop, the maximum amperage rating, and the location rating of the wire. Improper wire selection and installation could overheat wires and cause a fire.
- 12.** Do not modify the product beyond instructions, or the warranty will be void.
- 13.** We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee that we will match existing installed fixtures for subsequent orders or replacements in regard to product appearance, CCT, or lumen output.

Warranty Information

Limited Warranty

This product has a 7-year limited warranty from the date of shipment. This warranty applies only to the main product outlined in this specification sheet and does not include the additional accessories shown for reference. Complete warranty details for fixtures and additional accessories are available in the Policies section at <https://www.flexfireleds.com/warranties/>. 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 in accordance with our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We do our best to provide recommendations, but the responsibility for proper installation, design, and maintenance rests with 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 the Company's products and listed on the 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.



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