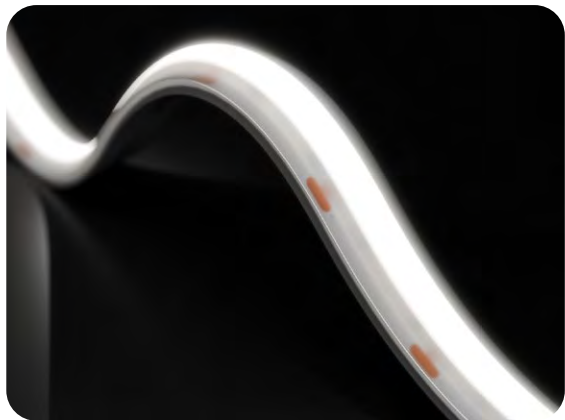


Outdoor UltraBright™ Valor Diffusion Series LED Strip Light

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

Our UltraBright™ Valor Diffusion Series is the most powerful outdoor strip light on the market. It delivers a sleek, continuous glow with easy-to-clean silicone protection from dust, high-pressure water, and any weather. Its unmatched brightness, full-range dimming, and flexibility make it perfect for spaces needing the boldest, dot-free glow—from extra-large homefronts to outdoor business coves, signs, displays, and building edges.



Product Features

Voltage	24V DC
Wattage	7.3 W/ft (24 W/m)
Brightness	Up to 738 lm/ft (2,420 lm/m)
Efficacy	Up to 100 lm/W
CRI	High CRI up to 94
Number of LEDs	93 LEDs/ft (308 LEDs/m)
Beam Angle	120°
Strip Width	1/2" (12 mm)
Cutting Points	1" (25 mm)
Max Run Length in Series	16 ft (5 m)
LED Size	2835
Adhesive Type	3M LSE 9495
Ambient Temperature	-4°F to 113°F (-20°C to 45°C)
Operating Temperature	-4°F to 131°F (-20°C to 55°C)
Dimmable	Yes
IP Rating	IP67: Outdoor, Wet Location

7 Year
Warranty



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

Ordering Code

IP Protection

Brand

Series

CCT

Voltage

Length

IP67

UB

VA

24V

16FT

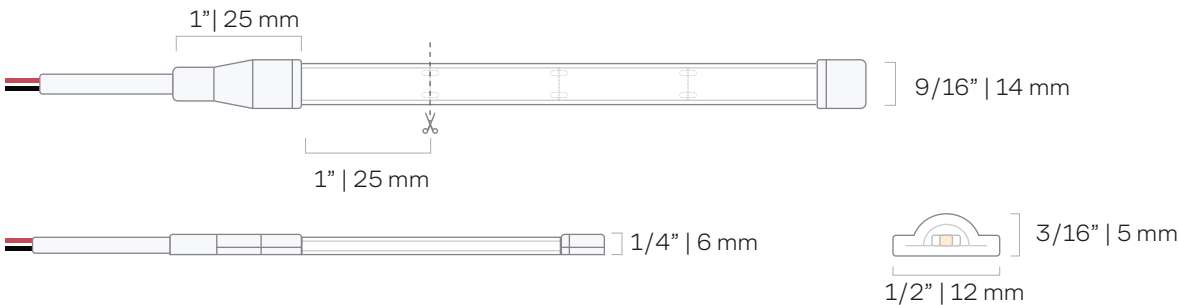
UltraBright™

Valor Series

30K: 5000K
50K: 5000K

Example: IP67-UB-VA-30K-24V-16FT

Dimensions



Included Accessories:



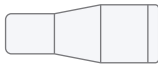
X2
Extra
Conectors



X10
Mounting
Brackets



X20
Mounting
Screws



X5
Open Front
Caps



X5
Closed
End Caps

Product Specifications

Product SKU	Color* (CCT)	Watts/Foot (Meter)	Lumens/Foot (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)
IP67-UB-VA-30K	3000K	7.3 W/ft (24 W/m)	738 lm/ft (2,420 lm/m)	110 lm/W	94	99	92
IP67-UB-VA-50K	5000K	7.3 W/ft (24 W/m)	805 lm/ft (2,642 lm/m)	119 lm/W	94	98	90

*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

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 - 2 ft	24V-WMPS2-1	24W	X
		3 - 10 ft	24V-DPS2-4	96W	X
Mean Well™ HLG Hardwired Power Supply		1 - 7 ft	HLG-60H-24A	60W	X
		8 - 11 ft	HLG-100H-24A	96W	X
		12 - 22 ft	HLG-185H-24A	185W	
		23 - 39 ft	HLG-320H-24A	320W	
		40 - 73 ft	HLG-600H-24A	600W	
Mean Well™ LPV Hardwired Power Supply		1 - 6 ft	LPV-60-24	60W	X

Dimmable

Power Supply	Diagram	LED Strip Length	Product SKU	Watts	Class 2
Zurik® EMLV Hardwired Power Supply		1 - 3 ft	ZRK-EMLV2-30W-24VDC	30W	X
		4 - 7 ft	ZRK-EMLV2-60W-24VDC	60W	X
Zurik® Universal Hardwired Power Supply		1 - 3 ft	ZRK-UNV-30W-24VDC	30W	X
		4 - 7 ft	ZRK-UNV-60W-24VDC	60W	X
		8 - 11 ft	ZRK-UNV-96W-24VDC	96W	X
		12 - 14 ft	ZRK-UNV-120W-24VDC	120W	
		15 - 24 ft	ZRK-UNV-200W-24VDC	200W	
		25 - 36 ft	ZRK-UNV-300W-24VDC	300W	
		1 - 22 ft (up to 11 ft/output)	ZRK-UNV-C192W-24VDC	192W	X
		23 - 44 ft (up to 11 ft/output)	ZRK-UNV-C384W-24VDC	384W	X
Lutron® Hi-Lume™ Premier Hardwired Power Supply		1 - 11 ft	L3D0-96W24V-U	96W	X
		Dimming Range: 0.1-100%			

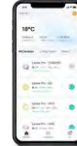
Compatible Controllers & Dimmers



Handheld Remotes



Wall Dimmers



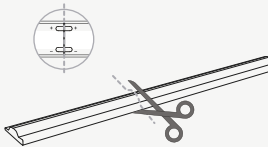
Smart Home Controllers

[See Controllers and Dimmers](#)

Installation Instructions

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

1.



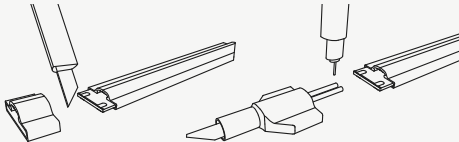
Cut 3 mm off the silicone cover, enough to expose the copper solder pads. Take the stranded wires you wish to solder onto the strip and feed it through the front end cap. Solder the wire to the solder pads on the strip, making sure that they are not crossing and there is no tin spilling over into the 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.

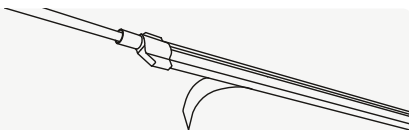
Method 2: IP65 Solderless Grip Connectors

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.

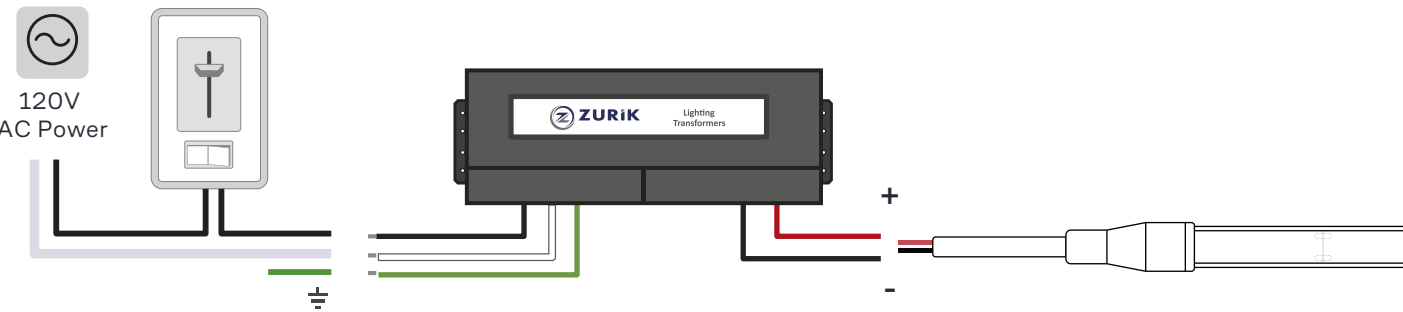
4.



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.

Wiring Diagrams

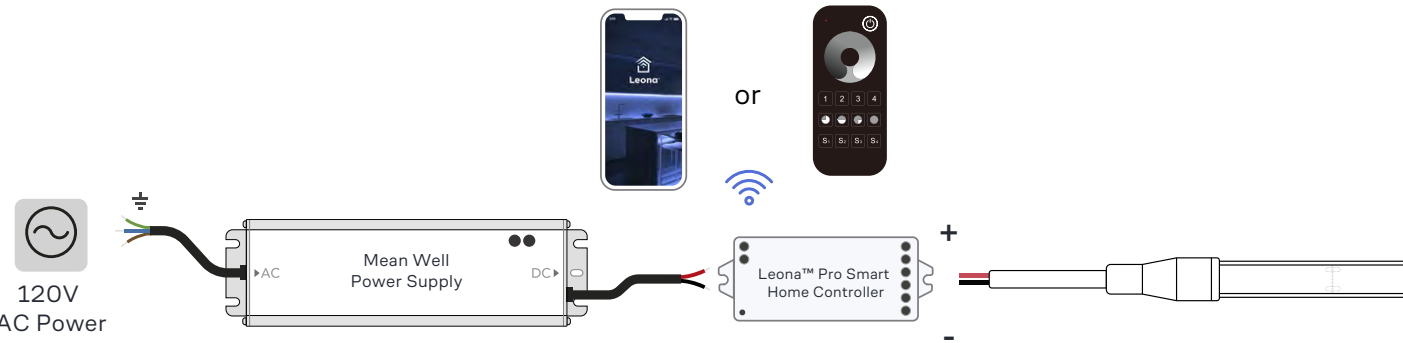
120V Wall Dimmer



Input		
● Green	⏏	Ground Wire
● Black	L	Line (Hot)
○ White	N	Neutral

Output		
● Red	+	Positive
● Black	-	Negative

In-Line Dimming



Input		
● Green/Yellow	⏏	Ground Wire
● Brown	L	Line (Hot)
● Blue	N	Neutral

Output		
● Red	+	Positive
● Black	-	Negative

Safety And Disclosures

- 01.** Our UltraBright™ Valor Diffusion Series LED Strip Light is IP67 rated. Please keep in mind that cutting the strip voids the IP rating.
 - 02.** Installation must comply with local and national electrical codes. A qualified, licensed electrician should install your strips for safety and proper installation.
 - 03.** To meet UL requirements, only install with a Class 2 DC Constant Voltage LED driver.
 - 04.** Do not install in an environment where excessive heat may exist.
 - 05.** LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
 - 06.** Do not secure this product with any kind of staples, nails, or materials that could potentially damage the product in any way. Keep these instructions for future reference.
 - 07.** Do not cover this product with any kind of combustible material such as paper, fabrics, etc.
 - 08.** Do not install with the majority of the product being unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip.
 - 09.** Do not install within 5 feet of a swimming pool or spa.
 - 10.** Unless otherwise stated as appropriate, do not use the product in direct sunlight or close to caustic substances such as saltwater, chlorine, bromine, etc.
 - 11.** Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
 - 12.** Make sure the appropriate gauge wire is installed between the driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat the wires and cause a fire.
 - 13.** Do not modify the product beyond the instructions, or the warranty will be void.
- 12.** 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, we cannot guarantee that existing installed fixtures will match subsequent orders or replacements regarding product appearance, CCT, or lumen output due to changes in technology and phosphors over time.

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.



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