



LED Neon Side Bend Strip Light Installation Guide



UL Listing and Compliance Information:

Our products are safe to use and free from any hazardous substances.
To comply with UL standards and inspections, please keep in mind that:

- ☑ A Class 2 power supply is to be used with each run of lights.
- ☑ Each installation of LED strip lights in series should consume no more than 100W max.

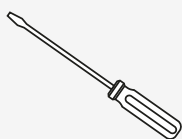
Español

- ☑ Se debe utilizar un transformador de Clase 2 cuando es necesario ajustarse a las normas de seguridad UL.
- ☑ La instalación no debe exceder un máximo de 100W cuando se conecta la tira LED en serie.

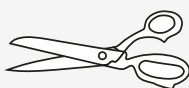
Français

- ☑ Pour être conforme aux règles de sécurité, une source d'alimentation de Classe 2 doit être utilisée.
- ☑ L'installation ne doit pas dépasser un total de 100W lorsque les bandes LED sont montées en série.

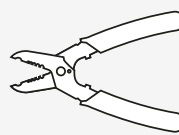
Tools Needed



Screwdriver



Industrial Shears



Pliers



Silicon Sealant*

* We recommend using our Electronic Grade Silicone Sealant Adhesive.

Installation Instructions

Component Check

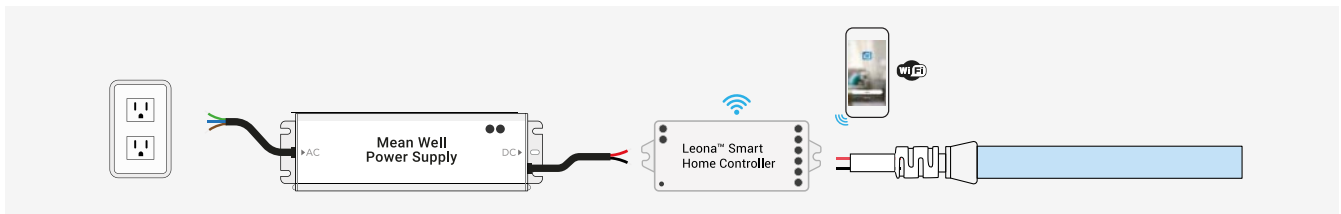
- Lucid™ LED Neon Side Bend Strip Lights
- LED Driver
- Lucid™ Connectors and Accessories (if needed)

Notes:

- Make sure that you have everything you need to complete the installation.
- Make sure that all components are compatible.
- Do not exceed the maximum run length of your Lucid™ LED strip light, as this may cause voltage drop and unwanted effects.
- Before installation, make sure to complete a mock installation to test your lights and turn them on to make sure all components are working correctly.
- Do not install product with the majority of the product unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip and/or spool.

1. Mock Installation

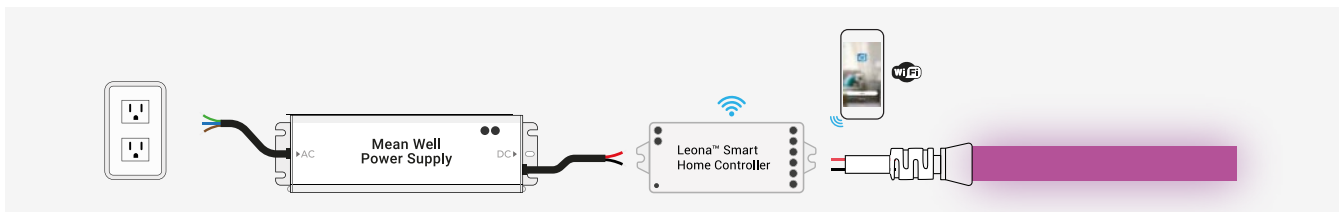
- Before cutting the LED Neon strip, or installing permanently, make sure to complete a mock installation to test your lights.
- It is important that you have a clear vision of your project and know what you want the end result to look like. Plan where you want to install your driver and dimmer. Lay out all the components in the correct area.
- Connect your LED Neon strip to your dimmer and power supply. It is very important to do this before cutting your strips or installing them.
- Turn on your lights and check to ensure that everything is working properly.



2. Troubleshoot If Needed

The strips should light up after connecting them to your dimmer and power supply. If they do not, please check your connections and make sure the polarity matches all the way through from the power supply to the LED strip (positive to positive, negative to negative).

Before installing your lights, check to see if the brightness level and color temperature you chose for your project look the way you envisioned. You will be ready to proceed with the installation after testing your lights and components.

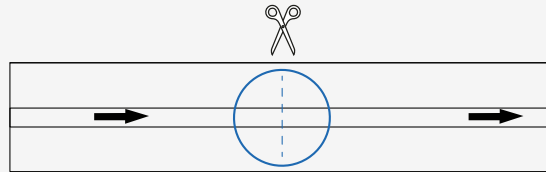


3. Turn Power Off at Circuit Breaker

Turn the power off at the circuit breaker to avoid any possible injury.

4. Cut Strip Light to Required Length

- Before cutting your Lucid™ LED Neon Strip light make sure the indicating arrows printed on the strip are pointing away from the power supply.
- Locate the cut point on your LED Neon Strip light. If you look on both sides of the strip, you will see a clear line in the middle of it. The line shows all cut points on the strip.
- Using industrial shears, cut through the Lucid™ LED Neon Strip light making sure to cut in a straight line.



5. Prepare the Lucid™ LED Neon Strip Light for Connectors

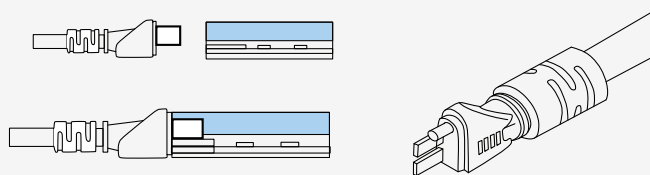
Grab the spacers that come with the connectors and insert them into the space over the LED strip light. Each end of the spacer should slide next to the first LED chip on your strip light. Do not forget to use the spacers as they provide protection against any unwanted contact when bending the Neon LED strip light.



6. Attach Power Connectors to LED Strip Light

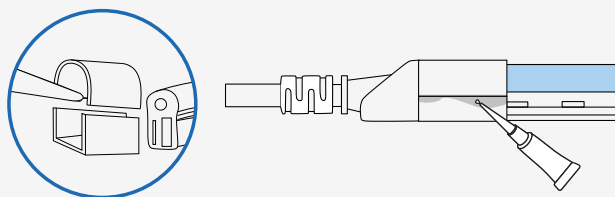
Grab the first half of the power connector and slide it into the Neon strip light, making sure the blades on the connector are placed between the actual strip light and the clear plastic below the strip light.

If you are installing jumper connectors, please note that some strip lights such as the RGB neon strip light will require soldering for this step.



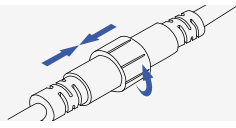
7. Install Front Caps and End Caps

Confirm your connections work properly and put some silicone sealant inside the front cap. Then, place the front cap over the connection. Make sure it is properly adjusted until it snaps. Let the sealant cure according to its own instructions before using the Neon strip light. Repeat the last step using the end caps.



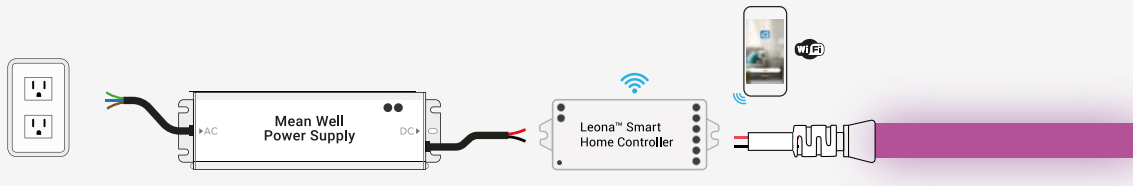
8. Finish Attaching the Power Connectors

Use the second half of the neon strip power connector by screwing together the connector caps of both pieces.



9. Retest the Setup

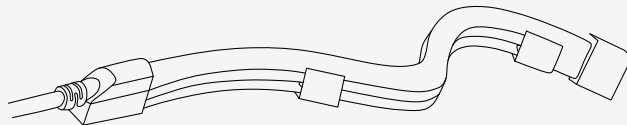
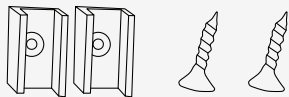
Test the strip again to make sure it lights up and is functioning properly before the final installation. Once you have verified all segments are working, you are ready to install them.



10. Mounting the Neon Strip Light

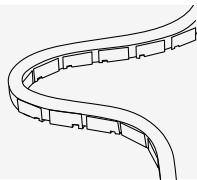
10.1. Mounting the Neon Strip Light using Mounting Brackets

Using the included screws, fix the mounting brackets to the surface. It is recommended you use one mounting bracket for every meter of the Neon strip light. Insert the Neon strip light into the mounting brackets.



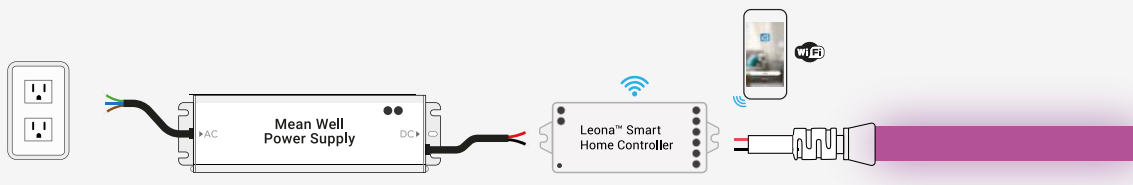
10.2. Mounting the Neon Strip Light using Rigid or Flexible Mounting Channels

Use either the Rigid Mounting Channel or the Bendable Channel to install your Neon strip lights. Simply affix the channel onto the desired surface using the appropriate style screws for your application, and then insert the Neon strip light into the channel.



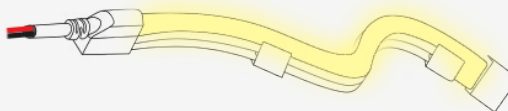
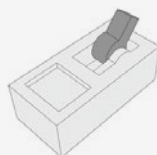
11. Complete All Connections

Complete the connections and wiring between your power supply, dimmers, and controllers. For more guidance, refer to the system diagrams below on how to connect your Neon strip lights to your driver.



12. Turn Power On at Circuit Breaker

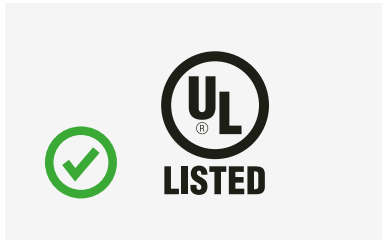
Turn on the power. The Neon strip light should light up and work properly.



Safety & Warnings



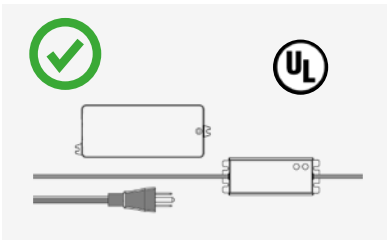
The Lucid™ LED Neon Strip Light is a side-bending LED strip light, which means it only bends in the opposite direction of the light, so bending it up and down will damage the LED strip light.



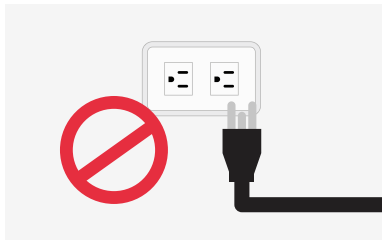
Installation must be in accordance with local and national electrical code regulations.



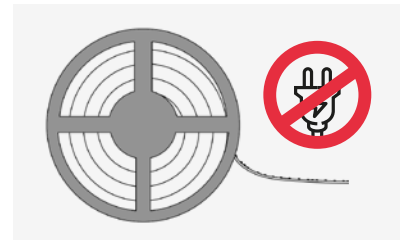
To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.



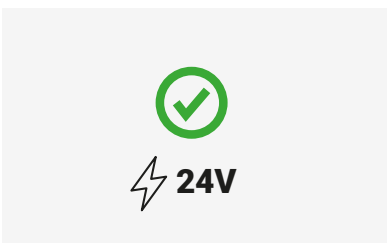
To meet UL requirements, only install with a Class 2 DC Constant Voltage LED driver.



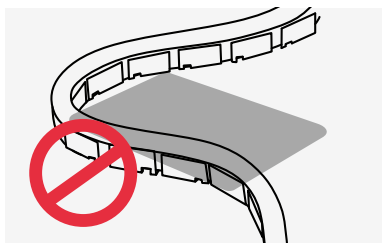
Do not directly connect a strip that requires DC power to an AC wall outlet.



Do not power the LED Neon Strip Light while still attached to its spool.



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



Do not cover this product with any kind of combustible material such as paper, fabrics, etc.



Do not submerge in liquids, or use within 5 feet of a swimming pool.

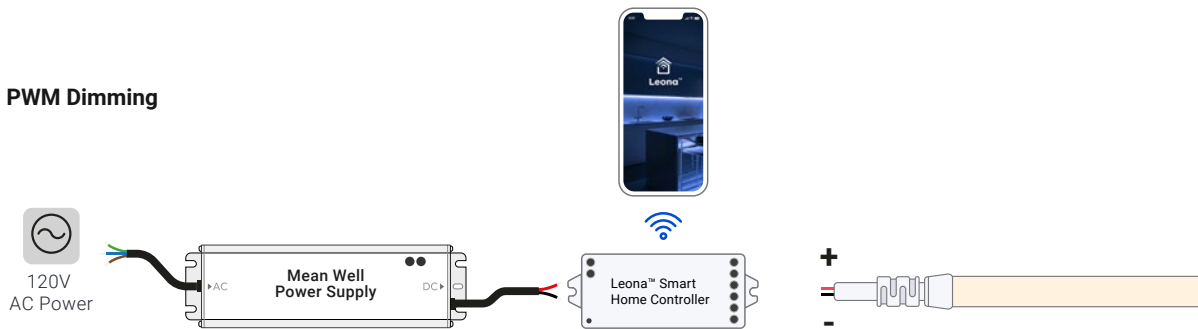


Do not secure this product with any kind of staples, nails, or materials that could potentially damage the product in any way.

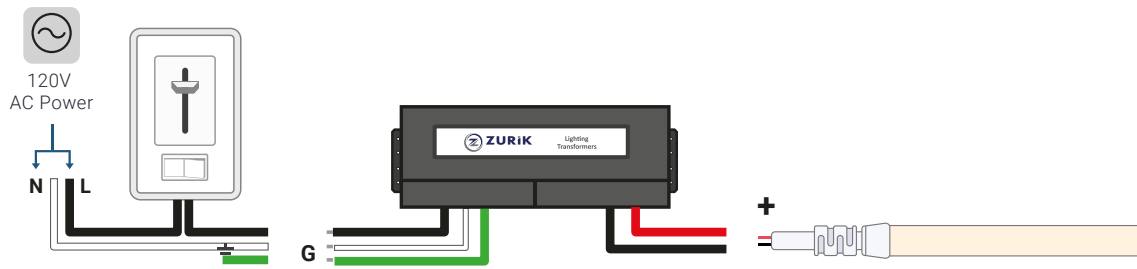
Keep these instructions for future reference.

System Diagrams

PWM Dimming



ELV/MLV Dimming



Warranty

You're Covered!

Flexfire LEDs' Industry Leading Warranty

We work our hardest to only use the highest quality components in our LED strip lights, drivers, controllers, and accessories. We recognize that most people do not use their lighting systems 24 hours a day, and would love to match our LED's longevity data with a warranty that fits the majority of our customers' use cases.

For that reason, we offer an industry topping (7) year warranty on most of our LED strip lighting products, and prolonged warranties on drivers, controllers, dimmers, and accessories. Please read over the warranty policy at www.flexfireleds.com/warranties to learn about the warranty period and exceptions.

Contact Information



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