

STEP BY STEP Installation guide

www.shoplumilights.com

STEP 1 - PREP EQUIPMENT

Ensure you have all required equipment for a successful install. You will need the following items:

- Ladder (be sure to follow all required safety precautions)
- Drill
- Wire Stripper
- Tin Snips (Provided)
- Self-Tapping Screws (Provided)
- Speed Square

- Linesman/Slip Joint Pliers (or any sort of flat headed plier for fixing track/channel if inadvertently bent
- Boom/Scissor Lift (only required depending on your specific home, but can be helpful to reach second levels)

STEP 2 - PREP LIGHTING LAYOUT

Prior to installing any light strips, create a plan for where the lights will go. Identify how many runs you will need (you can have up to four). For each run, estimate how many feet of track will be required to span the section. ***IMPORTANT*** - do not snap light strip into channel prior to installation. Once inserted into track, the lights do not come out. It is recommended to place lights in the track at the time you are installing the channel on the house to prevent mistakes.

Determine where "jumps" will be required. A "jump" is a spot where you will need to span a gap without lights. For these sections you will be utilizing the provided extension wire to link from the end of one string of lights to the start of the next. Be sure to include one power injection strip of lights (strip of lights with two additional wires coming out of last puck).

Find a space for your "Brain Box". This is the electrical control box (provided) that powers your lights and allows for digital control. We recommend placing the Brain Box on a wall in your garage near an outlet. The Brain Box is weatherproof and can be placed outside if there is an external outlet that is more convenient to use. However, we recommend placing the box indoors or under a covering to reduce risk of damage.



*This is simply an illustration of one potential configuration. Actual placement is subject to personal preference and other physical limitations of your actual property. Diagram for demonstration purposes only. Small to medium sized homes may require only 1-2 runs while larger homes may take 3-4 runs. Note: If the brainbox needs to be placed centrally, the direction for an effect on each run can be reversed in the WLED app if necessary. Figure 1

After you have created your plan, it is a good idea to connect all lights to power prior to installing on your home. This will help confirm that all lights are working properly and that an appropriate amount of power and data is getting to the end of the runs. **Without snapping lights in the channel**, connect the estimated length of lights together for each planned run.

Connect the beginning of each run to the Brain Box using the Xconnect adaptors hanging out of the box. Plug the Brain Box into an outlet (box does not need to be installed on a wall at this point) and check the brightness of your lights. If you notice any dimming or flickering you will need to inject power at the point of dimming/flickering. See below for further details on how to inject power. If you would like to verify that effects are working properly, jump ahead to the WLED installation section to set up effect controls. If the lights look good, proceed to install.

STEP 3 - INSTALL

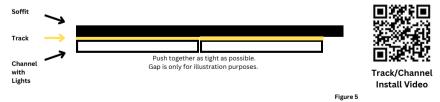
There are two main steps to install your lights. First, you will screw pieces of track to the soffit and then snap the light channels into these tracks. ***IMPORTANT*** - be sure to take proper precautions when using a ladder or other equipment.



Figure 3

Figure 4

Begin by screwing a track at the beginning of your first light segment using the provided self-tapping screws. It is recommended to place 3-4 screws in each piece of track to reinforce.



Once a section of track has been installed, snap lights into channel. ***IMPORTANT*** lights do not come out of the channels once snapped in. Be sure you are ready to install a track before snapping lights in. **Make sure the arrows on your lights are facing the correct direction. The arrows should run in the direction that your string is headed (away from brain box and towards next strip of lights).** See Figure 7.

Figure 8

Figure 6 To snap the channel into the track, push one side into track and then the other. You

will hear an audible "click" once fully in place. You can then move on to the next channel. Prior to putting up the next channel, connect the Xconnectors together and slide the connector into the previously hung track. Continue this process (adding pieces of track as you go).

IMPORTANT - make sure to start with a full channel (do not start with a cut or partial piece) as this will complicate the process and will make keeping proper spacing of lights much more difficult.

CORNER/PEAK NAVIGATION

90 Degree Turn - If your previous channel does not end exactly at a corner you will have to use your tin snips to cut the track and channel. To not waste track and channel it is recommended to use the remainder of the channel (after you cut) as the start of the next section of channel. Cut a small ($\sim 1/2$ inch) slit in the side of the channel to allow the light strip to pass through to the other channel. Then make a 45 degree angle, cut off the inside corner of the second piece of track (see Figure 8). These pieces will overlap when installed making a nice clean corner (Figure 10).

Figure 9

Figure 10









Direction of Data Flow

Figure 7

Diving Into Roof Line (Start and End of Peak) - in order to have a clean start and finish to any peaks on your home, you *may* need to make two cuts on your channel so that they fit flush with the roofline. You will begin by making a 65 degree cut in the forward facing side of the channel (starting on the top of the track to the bottom).

Example of where this would be necessary:



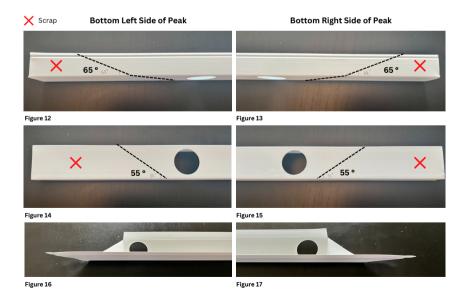
Figure 11

Next, you will make a 55 degree cut on the bottom of the track (from front to back). This bottom cut will start exactly where your front cut ended. Note: the angles may vary depending on your roofline pitch, but 55 and 65 are the most common angles required.



Starting and Ending a Peak Video

You will know that you have measured correctly if the the two traced lines make almost a straight ling from the front to back sides of the track. You may need to make slight adjustments depending on the specific dimensions of your roof.



Peak - to navigate the top of your peaks, you will need to cut one side of the track so that it will fit over the other and not have any gaps. Simply install track like normal leading up to the top of the peak in the direction you are headed. Make sure to only use complete pieces of track which will allow for proper spacing of lights. When you reach the top of the peak cut off any extra channel and use that piece as the start of the downward side of the peak.



Peak Navigation Video

Using a speed square and pencil, mark the angle that corresponds with your roof's pitch (most common are 4/12 ,6/12, or 8/12). To do this you will use the 'common' measures on the speed square. See figures 18 and 19.

Figure 18



Example of Measuring cut for an 8/12 Roof Pitch

Cut along measured line.



Push both pieces together when installing (the cut piece should overlap the full piece) Figure 19

CAPPING END OF RUN

JUMPS/EXTENSIONS

At certain points in your install, you will need to skip sections of your roofline where you do not want lights to be present. To do this, you will utilize the provided 18 gauge extension wire. For jumps less than 20ft, you can use the provided Xconnect extensions (additional extensions available for purchase). See figure 20.

Jump/Extension Using Xconnect Extensions

Xconnect Extension



Figure 20



Figure 21

For longer extensions you will need to use the provided 18 gauge extension wire. Start by connecting the end of the light strip to the female Xconnect pigtail (Figure 22). Then connect the extension wire to the exposed wires from the pigtail (Black to Black, Red to Red and Color to Color). Run the extension wire as far as you need and connect to the male Xconnect pigtail (Black to Black, Red to Red, Color to Color). See Figure 24. Waterproof all connections if exposed to the elements.

Jump/Extension Using 18 Gauge Wire



Figure 22

Male



Figure 23



Figure 24

If the end of your run, leading to a jump, does not happen to end with a full strip of lights, you may need to cut off the remaining pucks. You will then need to connect the extension wire directly to the exposed LED strip wires. The LEDs will be labeled with very small writing (see Figure 25). The **Negative** wire must be connected to **Black**, **Positive** to **Red** and **Data** to the **Colored** Wire. Run the extension wire the required distance and then connect to a female pigtail. The pigtail can then be connected to the next strip of lights.



NOTE: NEVER work on lights with power connected! If you are uncomfortable working with low voltage wiring consult your local professional! Always follow local laws and regulations for low voltage wiring. All terms and conditions apply.

STEP 4 - BRAIN BOX MOUNTING

Now that all of your lights have been installed on your home, it is time to mount the Brain Box. Prior to actually screwing the box into the wall, we recommend plugging in all of the light strips to the Brain Box, and then plugging the box into the outlet while not installed on the wall. This allows you to check and see if everything is working properly before permanently placing the box.

Once you have confirmed that all of your lights are getting power, simply screw the Brain Box into a wall using the brackets attached on back of the Brain Box. Make sure to screw into wall studs or use drywall screws if necessary.

As mentioned previously, the box can be placed outside if that is the most convenient place to connect to your strips of lights. However, we recommend placing indoors (or somewhere covered) to prevent damage due to the elements. Once the box has been installed, connect each of your individual light strips to the box using the Xconnect adaptors that are hanging out of the box (see Figure 26).

Fully Mounted Brain Box



Figure 26

STEP 5 - WLED CONNECTION

Once your Brain Box has been installed and the lights are getting power, it is time to connect the lights to your phone to control the color and many different effects.

While the box is plugged in, open your phone and navigate to where you select your Wi-Fi network. You will see a new network appear called WLED-AP. Choose this network and wait for the controls to appear (password: WLED1234). Once the controls pop up, select WIFI Settings in the middle of the page. Once WIFI settings have been selected, type in your home network name and password. If you have multiple frequencies of Wi-Fi, make sure to connect to the 2.4 GHz network as 5 GHz does not always work.

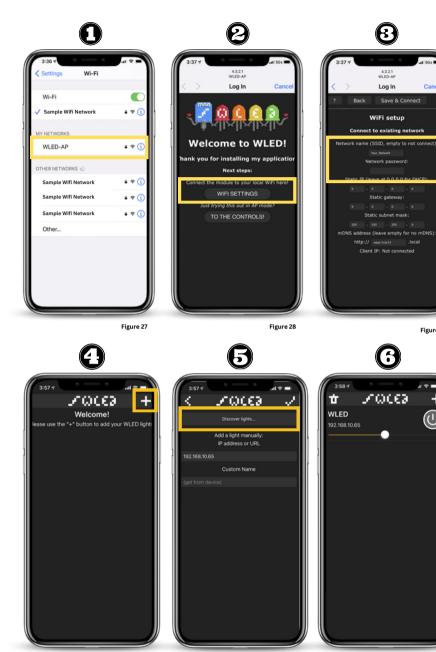


Figure 30

Figure 31

Figure 32

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Figure 29

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After connecting WLED to your Wi-Fi network, download the WLED from the App Store on your device. Open the app and press on the PLUS icon in the top right hand corner of the app. Then select "Discover lights...". It might take a moment for the app to find your controller. Once connected you will see something like Figure 32 above. You can click on that WLED connection and be taken to the controls!

Before changing colors or adding effects, make sure to properly configure the LED preferences. Select **Config** in the top right corner of the app. Input the total LED count that you have installed on your home. For each run of lights, input the number of pucks in the respective run.

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Figure 33

Now that you are all set up on the app, there are almost unlimited possibilities for you to experiment and control your lights. Change the colors, add effects and customize your lights as you like. There are many additional resources (which are outlined later in this guide) to help you get the most out of the amazing WLED software



Figure 34

DATA/POWER INJECTION

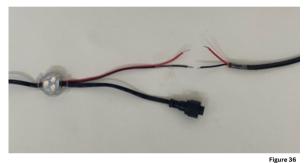
Two of the most common issues with the lights have to do with a lack of data and/or power. If you notice any flickering, or if the brightness of the lights seems to fade out towards the end of the strip you will need to inject additional power or data in the middle of the line.

Power Injection - the most common indication that you would need to inject power is when the lights become dim or change color at any point on your light strip (ex. white lights turning yellow). You may need to inject power about every 50-75 lights. It is possible to change the brightness of the lights in the WLED app to avoid power injections but power injection is preferred. Power Injection means running a positive and negative wire from the Brain Box and connecting them to the positive and negative wires on the LED strips.

You will notice an additional Xconnect adaptor coming out of your Brain Box. This will be labeled as **Power Injection Only**. Using a provided Male Xconnect pigtail, connect to the Power Injection port. Connect additional extension wire as needed and run to the point where you need to inject power. You can run the extension wire in the LED channel (along with the light strips) until you come to the string where you need to inject the power.

IMPORTANT: Be sure not to mix up the positive and negative wires or your LEDs will be damaged. Remember black connects to black wires and red to red.

NOTE: you will notice some light strips have two extra wires hanging from the last puck. Instead of splicing into the normal light strings you can connect the extension wires here. See Figure 36.



Data Injection - the second issue you might face is data (or signal from the Brain Box) not flowing all the way through a line. This would result in effects not flowing all the way through a strip of lights. If you notice flickering or any sort of effect not continuing from beginning to end of the light strip, you will need to boost the data signal. To do this, you will simply add a provided data booster (see Figure 37) with Xconnect connectors in between two strips of lights where you notice the issues. If you are making a long jump or extension (over 30 feet), it is highly likely that you will need to use the data booster to inject data.

CABLE MANAGEMENT

While not provided in the DIY kit, there are many options that could be used to help manage the visibility of cables. Please be sure to follow all laws, rules and codes that may be applicable to managing the wires on your home (see Terms and Conditions below).





Figure 37

OTHER RESOURCES

Throughout the process of installing your lights, you might run into issues or have questions. You are welcome to reach out to us for questions or concerns (lumilights.llc@gmail.com). There are also many resources out there that can be helpful in troubleshooting or helping you to enhance your experience. Below are three incredibly helpful resources that we recommend exploring throughout the process.

YouTube - a simple YouTube search for anything related to your light installation can be very helpful. There are many channels and content creators that have made videos outlining common issues and solutions. Content ranges from track installation to WLED software tips and tricks.

Facebook - there are numerous Facebook groups that are dedicated to the process of installing permanent LED lights on your home. Join a group and post questions to get a quick response from the community.

Discord - Discord has robust channels for the WLED software and is frequently monitored by experts in the LED lighting hobby.

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TERMS AND CONDITIONS

Indemnification

You agree to release, indemnify, defend and hold harmless Lumi Lights LLC and its licensee and licensors, and their employees, contractors, agents, officers and directors, from and against any and all claims, damages, obligations, losses, liabilities, costs or debt, and expenses (including but not limited to attorney's fees), resulting from or arising out of a) your use and access of the Service, or b) a breach of these Terms.

Limitation Of Liability

In no event shall Lumi Lights LLC, nor its directors, employees, partners, agents, suppliers, or affiliates, be liable for any indirect, incidental, special, consequential or punitive damages, including without limitation, loss of profits, data, use, goodwill, or other intangible losses, resulting from (i) your access to or use of or inability to access or use the Service; (ii) any conduct or content of any third party on the Service; (iii) any content obtained from the Service; and (iv) unauthorized access, use or alteration of your transmissions or content, whether based on warranty, contract, tort (including negligence) or any other legal theory, whether or not we have been informed of the possibility of such damage, and even if a remedy set forth herein is found to have failed of its essential purpose.

Disclaimer

Your use of the Service is at your sole risk. The Service is provided on an "AS IS" and "AS AVAILABLE" basis. The Service is provided without warranties of any kind, whether express or implied, including, but not limited to implied warranties of merchantability, fitness for a particular purpose, non-infringement or course of performance. Lumi Lights LLC its subsidiaries, affiliates, and its licensors do not warrant that a) the Service will function uninterrupted, secure or available at any particular time or location; b) any errors or defects will be corrected; c) the Service is free of viruses or other harmful components; or d) the results of using the Service will meet your specific requirements.

Goods Not for Resale or Export.

You represent and warrant that you are buying products or services from the Site for your own personal or household use only, and not for resale or export. You further represent and warrant that all purchases are intended for final delivery to locations within the US.

Privacy.

We respect your privacy and are committed to protecting it. Our Privacy Policy, found at lumilights.com, governs the processing of all personal data collected from you in connection with your purchase of products or services through the Site.

Force Majeure.

We will not be liable or responsible to you, nor be deemed to have defaulted or breached these Terms, for any failure or delay in our performance under these Terms when and to the extent such failure or delay is caused by or results from acts or circumstances beyond our reasonable control, including, without limitation, acts of God, flood, fire, earthquake, explosion, governmental actions, war, invasion or hostilities (whether war is declared or not), terrorist threats or acts, riot or other civil unrest, national emergency, revolution, insurrection, epidemic, lockouts, strikes or other labor disputes (whether or not relating to our workforce), or restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, materials or telecommunication breakdown or power outage.

Governing Law and Jurisdiction.

This Site is operated from the United States. All matters arising out of or relating to these Terms are governed by and construed in accordance with the internal laws of the State of Utah without giving effect to any choice or conflict of law provision or rule (whether of the State of Utah or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than those of the State of Utah.

Dispute Resolution and Binding Arbitration.

YOU AND LUMI LIGHTS LLC ARE AGREEING TO GIVE UP ANY RIGHTS TO LITIGATE CLAIMS IN A COURT OR BEFORE A JURY, OR TO PARTICIPATE IN A CLASS ACTION OR REPRESENTATIVE ACTION WITH RESPECT TO A CLAIM. OTHER RIGHTS THAT YOU WOULD HAVE IF YOU WENT TO COURT MAY ALSO BE UNAVAILABLE OR MAY BE LIMITED IN ARBITRATION.

ANY CLAIM, DISPUTE, OR CONTROVERSY (WHETHER IN CONTRACT, TORT, OR OTHERWISE, WHETHER PRE-EXISTING, PRESENT, OR FUTURE, AND INCLUDING STATUTORY, CONSUMER PROTECTION, COMMON LAW, INTENTIONAL TORT, INJUNCTIVE AND EQUITABLE CLAIMS) BETWEEN YOU AND US ARISING FROM OR RELATING IN ANY WAY TO YOUR PURCHASE OF PRODUCTS OR SERVICES THROUGH THE SITE, WILL BE RESOLVED EXCLUSIVELY AND FINALLY BY BINDING ARBITRATION.

The arbitration will be administered by the American Arbitration Association ("AAA") in accordance with the Consumer Arbitration Rules (the "AAA Rules") then in effect, except as modified by this Section 20. (The AAA Rules are available at www.adr.org/arb_med or by calling the AAA at 1-800-778-7879.) The Federal Arbitration Act will govern the interpretation and enforcement of this section.

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The arbitrator will have exclusive authority to resolve any dispute relating to arbitrability and/or enforceability of this arbitration provision, including any unconscionability challenge or any other challenge that the arbitration provision or the agreement is void, voidable, or otherwise invalid. The arbitrator will be empowered to grant whatever relief would be available in court under law or in equity. Any award of the arbitrator(s) will be final and binding on each of the parties and may be entered as a judgment in any court of competent jurisdiction.

The other party will be responsible for paying any arbitration fees if the other party prevails on any claim that affords the prevailing party attorneys' fees.

You agree to an arbitration on an individual basis. In any dispute, NEITHER YOU NOR LUMI LIGHTS LLC WILL BE ENTITLED TO JOIN OR CONSOLIDATE CLAIMS BY OR AGAINST OTHER CUSTOMERS IN COURT OR ARBITRATION OR OTHERWISE PARTICIPATE IN ANY CLAIM AS A CLASS REPRESENTATIVE, CLASS MEMBER OR IN A PRIVATE ATTORNEY GENERAL CAPACITY. The arbitral tribunal may not consolidate more than one person's claims and may not otherwise preside over any form of a representative or class proceeding. The arbitral tribunal has no power to consider the enforceability of this class arbitration waiver and any challenge to the class arbitration waiver may only be raised in a court of competent jurisdiction.

If any provision of this arbitration agreement is found unenforceable, the unenforceable provision will be severed, and the remaining arbitration terms will be enforced.

Assignment.

You will not assign any of your rights or delegate any of your obligations under these Terms without our prior written consent. Any purported assignment or delegation in violation of this Section 21 is null and void. No assignment or delegation relieves you of any of your obligations under these Terms.

No Waivers.

The failure by us to enforce any right or provision of these Terms will not constitute a waiver of future enforcement of that right or provision. The waiver of any right or provision will be effective only if in writing and signed by a duly authorized representative of Lumi Lights LLC.

No Third-Party Beneficiaries.

These Terms do not and are not intended to confer any rights or remedies upon any person other than you.

Notices.

We may provide any notice to you under these Terms by (i) sending a message to the email address you provide or (ii) by posting to the Site. Notices sent by email will be effective when we send the email and notices we provide by posting will be effective upon posting. It is your responsibility to keep your email address current.

To give us notice under these Terms, you must contact us as follows: by personal delivery, overnight courier, or registered or certified mail to Lumi Lights 2977 N 1450 W Pleasant Grove, UT 84062. We may update the address for notices to us by posting a notice on the Site. Notices provided by personal delivery will be effective immediately. Notices provided by registered or certified mail will be effective three business days after they are sent.

Severability.

If any provision of these Terms is invalid, illegal, void, or unenforceable, then that provision will be deemed severed from these Terms and will not affect the validity or enforceability of the remaining provisions of these Terms.

Entire Agreement.

Our order confirmation, these Terms, our Website Terms of Use, and our Privacy Policy will be deemed the final and integrated agreement between you and us on the matters contained in these Terms.