



Live the Sauna Life!

Sauna Led Light System



White Led

Installation and Operation Manual

SAFETY & WARNINGS



PLEASE READ THIS MANUAL IN ITS ENTIRETY PRIOR TO INSTALLATION

- **Qualified Personnel Only:** Installation of this system must be performed by a certified electrician, following all national electric code and local building code requirements.
- **Equipment Protection:** The driver, power supply, and control unit must be installed in a location that is completely protected from moisture, rain, and inclement weather.
- **Temperature Considerations:** Please refer to the specifications on page 5 to determine the maximum temperature rating of each component. Do not install any components in areas that exceed the maximum temperature limits, as this will lead to product failure and void the warranty.
- **LED Sauna Heater Clearance:** Maintain a safe distance between your LED lights and the sauna heater. Avoid directly installing the lights above the heater or within 20 inches of its sides.
- **Control:** If installing inside the sauna, the RF Control must not exceed 131°F. Maximum installation height is 30" from sauna floor and minimum of 36 inches away from the sauna heater.
- **Light Placement:** Carefully consider the placement of your LED lights to avoid shining directly into bathers eyes. A diffused or indirect lighting approach is recommended.
- **Uncoil Before Powering:** Do not power on the LED light while it is coiled on the spool. Unwind completely before connecting to power.
- **Avoid Damage:** Do not fold or twist the LED light, as this may damage the LEDs and cause malfunctions. Refer to page 4 for LED Handling.

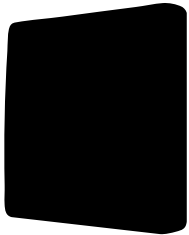
Electrical Requirements

Always disconnect power from the system at the circuit breaker before performing any electrical installation or maintenance.



- **Power Source:** The lighting system requires a 120VAC power outlet.
- **Qualified Electrician:** A qualified electrician must determine the appropriate electrical outlet type, box configuration, and wiring to ensure compatibility and safety.
- **Electrical Safety:** Using incorrect voltage or improper electrical connections can damage system components and void warranty.

PACKAGE CONTENTS



Dimming Remote
(qty. 1)



RF Driver / Receiver
(qty. 1)



Power Supply
(qty. 1)



2-Pin 4-Way Light Cable
(qty. 1)



2-Pin 30' Light Cable
(qty. 1)



AC Power Cable
(qty. 1)



Mounting Clip + Screw



Led Light

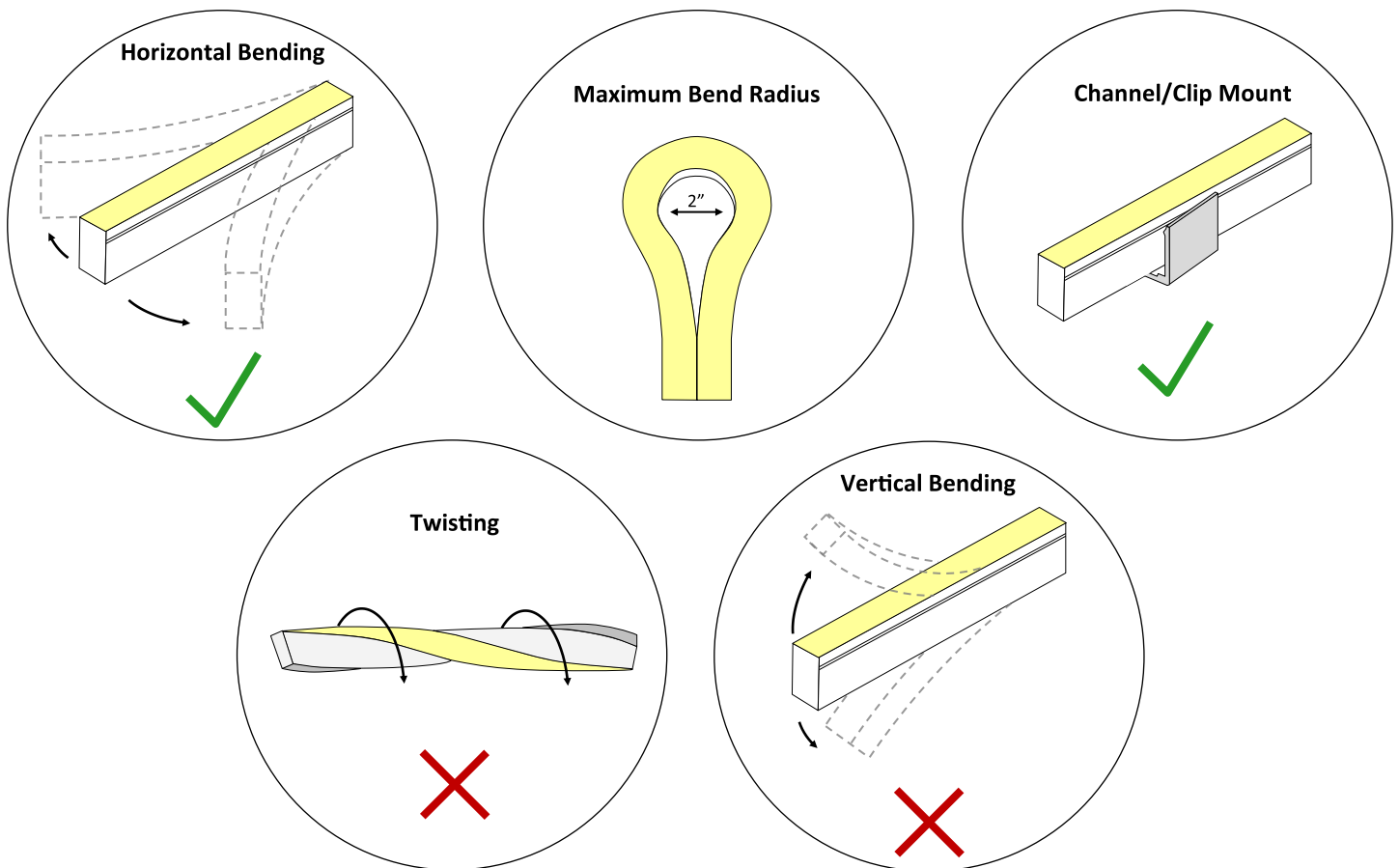
Optional 5ft Mounting Channel
(purchased separately)



LED HANDLING

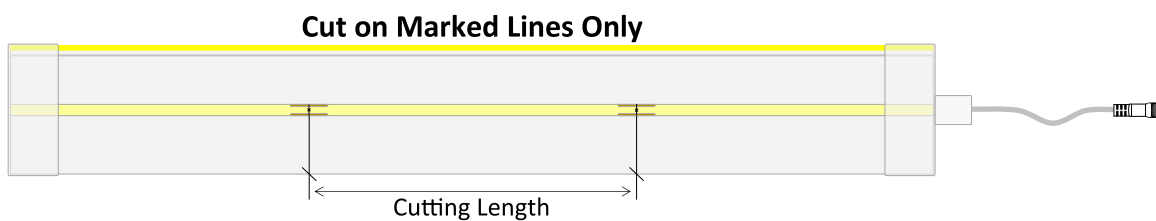


HANDLE LED LIGHT WITH CARE!



Cutting Flexible LED Neon

- If needed LED Neon can be cut to length.
 - Determine the length of LED needed for the installation location.
 - Using sharp cutters or scissors cut at closest cut point to the length needed, see diagram below.
- Note:** Cut only on marked lines. Cut-off section can be discarded.
- After cutting, apply silicone to the cut end and install new end cap.



SPECIFICATIONS



Driver/Receiver

Operating Voltage: 24VDC
 Rated Out Current: 9A
 Output Voltage: 24 VDC
 Max Output Power: 200W
 Operating Temp: -4°F - 131°F
 Dimensions: 3.75"L x 1.72"W x 1.21"H
 Light Capacity: 4 Lights / 25'
 IP Rating: IP20
 Certifications: CE, EMC

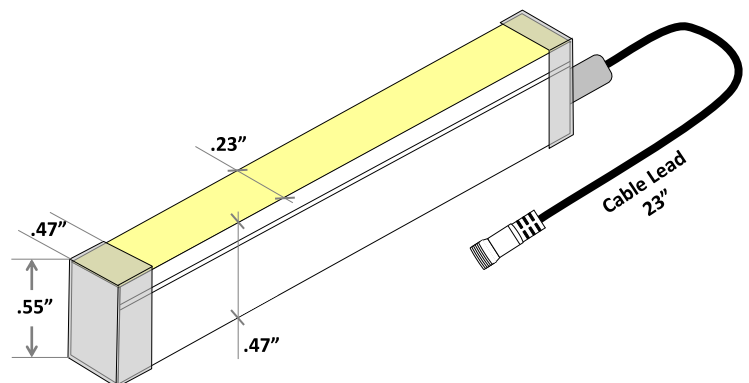
RF Remote Single-Zone Dimming

Output Signal: RF (433MHz)
 Operating Voltage: Self Powered (No Battery)
 Operational Life: 200,000 Switchings
 Dimming Range: 1% - 100%
 Signal Distance: 100FT
 Dimensions: 3.38"L x 3.38"W x .65"H
 Operating Temp: 14°F - 104°F
 Zones: 1 Zone Single Color
 IP Rating: IP67
 Certifications: CE

Power Supply

Input Voltage: 120 VAC
 Output Voltage: 24 VDC
 Rated Power: 90W
 AC Current: 1.3A
 DC Current: 3.75A
 Operating Temp: -22°F - 158°F
 IP Rating: IP20
 Certifications: UL, CE, FCC

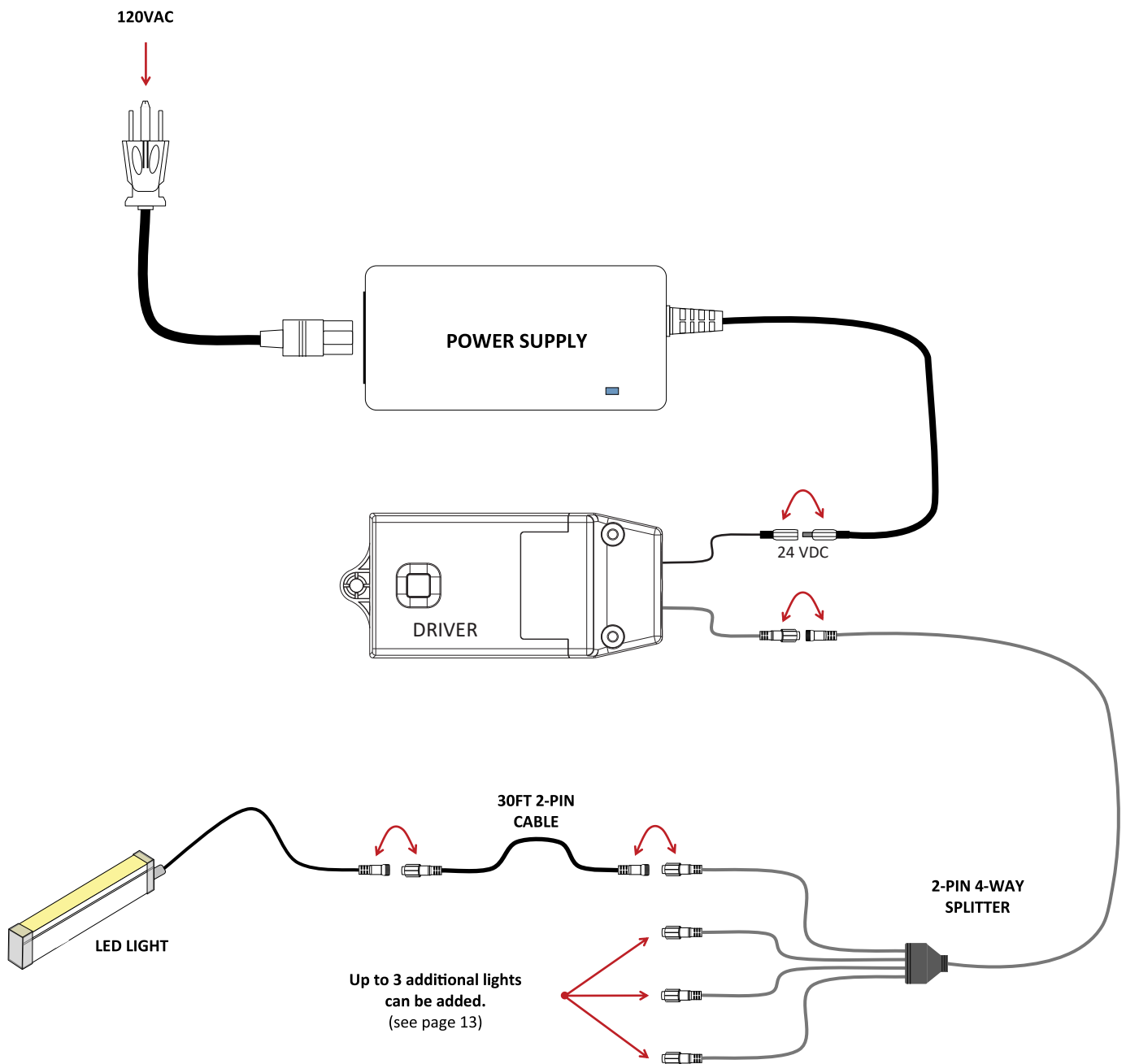
White Led					
Operating Temp: -13°F to 200°F		Max Run: 4 Lights / 25 Linear Feet		IP Rating: IP67	
Length	Operating Voltage (VDC)	Wattage	Lumens	Kelvin Temperature	Certification
4FT	24 VDC	12W	396	3500K	ETL / SGS
5FT	24 VDC	15W	495	3500K	ETL / SGS
6FT	24 VDC	18W	594	3500K	ETL / SGS
7FT	24 VDC	21W	693	3500K	ETL / SGS



CONNECTION DIAGRAM



Lighting System Connection Overview



INSTALLATION



STEP 1. Mounting Driver:

- **Location:** Choose a dry and accessible location for mounting the RF Driver/Receiver.
- **Mounting:** Secure the Driver/Receiver to the surface using one screw.

Important Considerations:

Sauna Installation:

- Verify the Driver's maximum operating temperature is not exceeded in the sauna environment.
- Maintain a minimum distance of 3 Feet from the sauna heater.

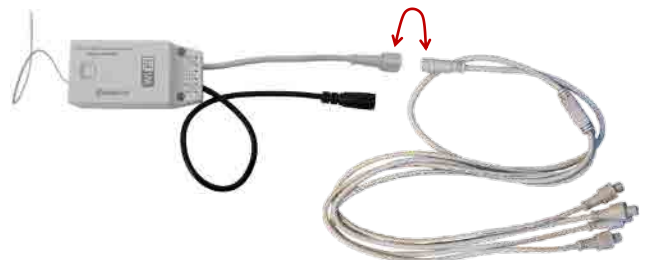
Outdoor Installation:

- Enclose the Driver/Receiver in a weatherproof enclosure for complete protection from the elements.



STEP 2. Connecting 4-Way Cable

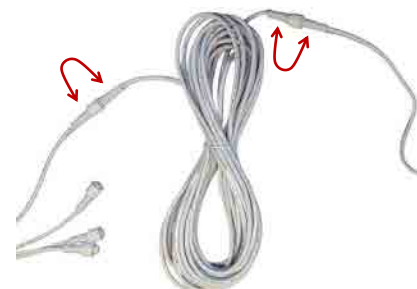
- Locate the 2-Pin 4-way cable and connect the single end to the 2-Pin Pigtail cable on the Driver.



STEP 3. Run Light Cable

- Run the light cable from 4-Way cable to LED light.
- Connect one end of the light cable to the 2-Pin 4-Way cable.
- Connect the other end of the light cable to the pigtail on the light fixture.

Note: Repeat this step if installing more than one light.



STEP 4. Connect Power Supply

- Locate the Power Supply. Plug the DC lead into the DC pigtail from the Driver.
- Plug the AC cable from the power supply into a 120VAC outlet.



INSTALLATION



STEP 5. Identify LED Install Location:

Identify location where the LED light will be installed.
Common installation spots are:

- Backrest shining up or down
- Under bench
- Sauna Floor
- Exterior Sauna

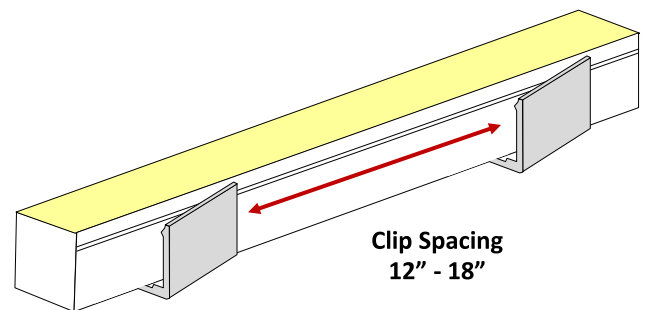
Important:

- The LED light should not be installed above or within 20" of sauna heater.
- "Always check the temperature at the intended installation location of the LED light to ensure it does not exceed the maximum operating temperature."

Note: It is recommended to run sauna without LED light installed and check the temperature at the intended installation location to get an accurate temperature reading.

STEP 6. LED Mounting Clips

- Using the provided screws, attach the mounting clips to the mounting surface. Clips are provided with one screw each.
- If using your own screws, you will need a mini-mum size #4 x 5/8" screw to mount the clips.
- It is recommended that clips be mounted every 12" to 18" to support the LED light.
- Gently press the LED light into each clip.
- Follow the connection diagram on page 6 for LED wire connections.



Note: The images below show examples of clip installation. To remove the LED from a clip, gently pull up on the LED at each clip to release it. Avoid bending the LED, as this can damage the light.



INSTALLATION



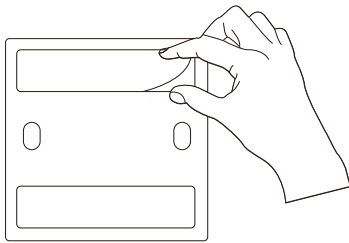
STEP 7. Installing Control:

Identify location where the control will be installed. Follow steps below for mounting control on wall surface. Optionally control can be used as a handheld rather than mounting on the wall.

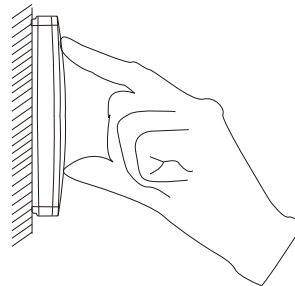
Important Notes:

- If installing the control in Sauna it is recommended to install near the door and or opposite side of room as sauna heater.
- Do Not install control higher than 30" from the finished sauna floor or where operating temperature of control will be exceeded.
- Always check temperature at install location or control before installing and ensure it does not exceed maximum operating temperature rating for the control.

Option 1: Wall Mount Using Adhesive

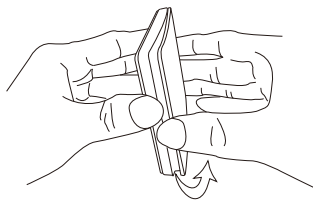


Apply provided double sided adhesive tape.

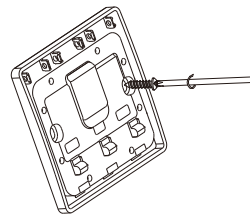


Align control and press onto surface. Hold for a few seconds to ensure tape holds.

Option 2: Wall Mount Using Screws



Carefully open control.



Install on wall using wood screws.

STARTUP & TESTING

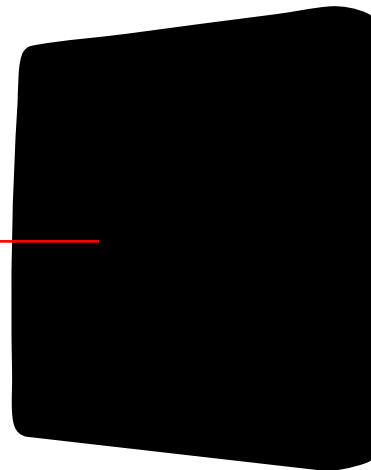


Control Operation

See the image below for control operation. When installing the control verify maximum operating temperature of the control is not exceeded.

- Do not install control within 3ft of sauna heater.
- Do not install control higher than 30" off finished sauna floor.

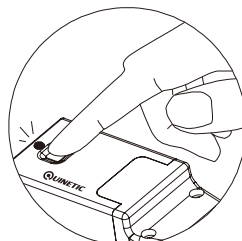
Press once to turn ON/OFF
Press and hold to Dim/Brighten



Driver & Control Programming

Note: The wireless control comes preprogrammed with the driver. Follow the steps below if programming is needed.

1. Press and hold the button on the driver for 3 seconds to enter program mode. The indicator light will flash slowly
2. Quickly press the control switch, the indicator light on the driver will go off indicating successful pairing.



Press for 3 seconds
to enter program mode

Note: If you encounter any issues during startup and testing, proceed to the troubleshooting steps.

Wi-Fi SETUP



To set up Wi-Fi operation follow the steps below

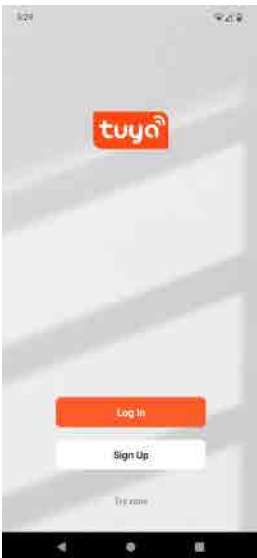
Note: The driver supports the 802.11 b/g/n 2.4 GHz Wi-Fi standard. The Wi-Fi Driver will not connect to a 5 GHz network. Installation steps below are for reference and may change or differ between iOS and Android versions.



On IOS or Android download the Tuya Smart App

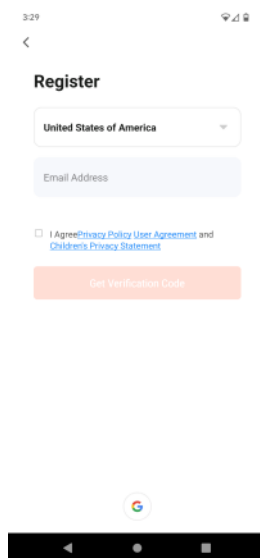
Step 1

Open Tuya app and press Sign Up to create



Step 2

Enter an email address to register an account



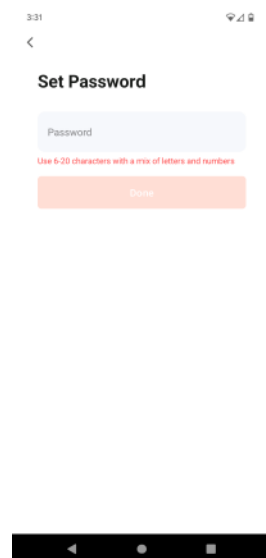
Step 3

Check email and enter verification code



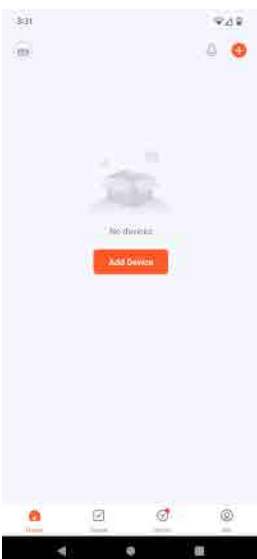
Step 4

Create a password



Step 5

Main screen press Add Device



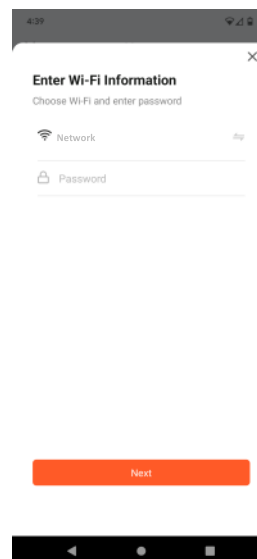
Step 6

Press Add next to Discovering Devices



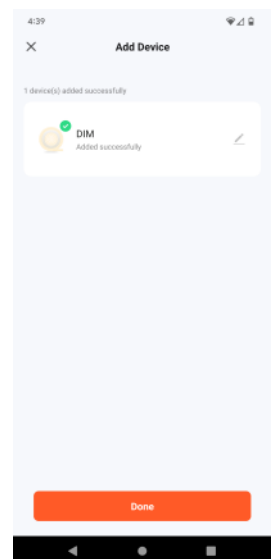
Step 7

Select your Wi-Fi network



Step 9

Device added successfully, press done to complete setup





Troubleshooting

No Power

- Verify that the electrical outlet has proper voltage.
- Check that all the power connections are secure and correct:
 - Power supply to the outlet
 - DC plug from the power supply to the driver

Power but lights not turning on

- Check that the Pigtail cable from the Driver is securely connected and that wiring is correct..
- Check that 4-way light cable is secure and connected.
- Check that all 30' cables to the lights are securely connected.
- Verify each light functions by testing them directly to the Driver independently.

Note: To test an individual light, disconnect the 4-way light cable and connect the 30' cable directly to the Pigtail lead on the Driver, or connect the light directly to the Pigtail.

- Verify that control is paired with the Driver, (see page 10).

Lights on, no function from Control

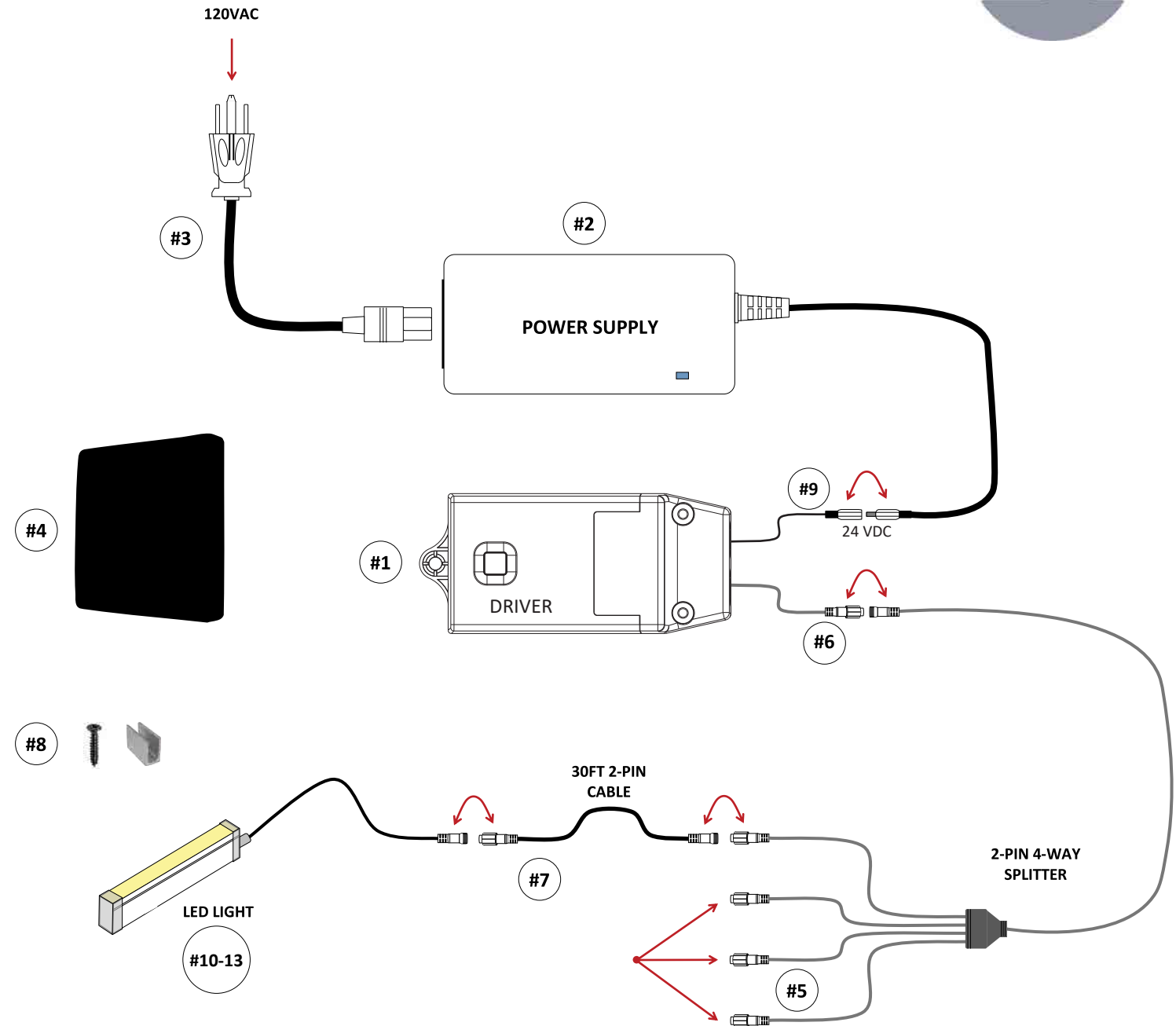
- Verify that Remote is paired with the Driver, (see page 10).
- Ensure that the distance from the Remote to the Driver is not more than 98 feet. If it is, relocate the Driver closer to the room.

Resetting Driver

The Driver should not need to be reset under normal conditions. If a reset is needed, follow the steps below.

- Verify power to the Driver
- Press and hold the Match button for 10-15 seconds until the LED indicator goes out.
Note: Resetting Driver will clear any paired remotes and require reprogramming, (see page 10).

REPLACEMENT PARTS



Description		Part Number
#1	RF Driver	BP031198
#2	Power Supply/90W	BP031137
#3	AC Power Cord	BP031132
#4	Control Single-Zone	BP031199
#5	4-Way IP67 2-PIN Splitter	BP031075
#6	2-PIN IP67 Pigtail	BP031073
#7	2-Pin 30ft Cable	BP031077
#8	Led Light Mounting Clip + Screw	BP031165

Description		Part Number
#9	DC Pigtail Cable	BP031143
#10	48" White Led Light	BP031096
#11	60" White Led Light	BP031164
#12	65" White Led Light	BP031170
#13	75" White Led Light	BP031171



Technical Support
(224) 253-5909