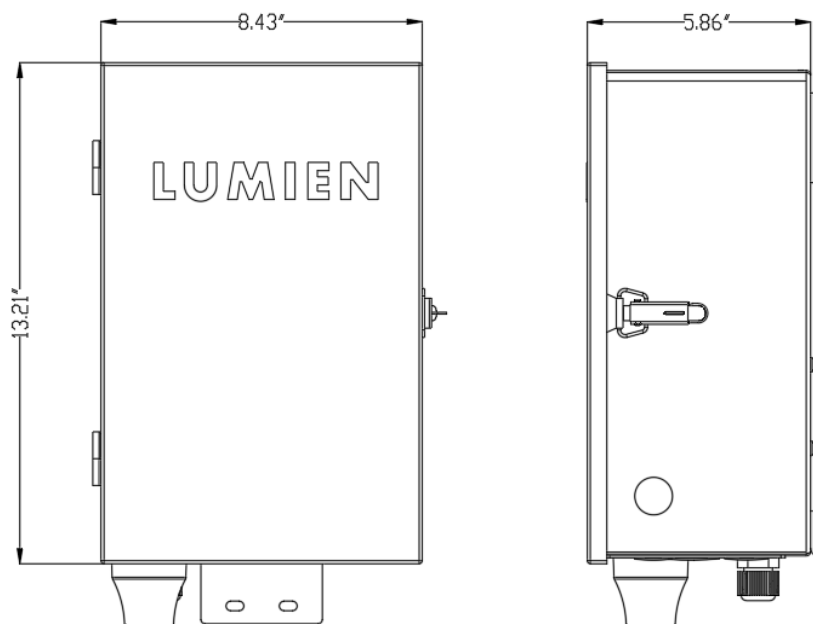


# LumienIQ

Landscape Lighting Smart Transformer – 400VA/600VA

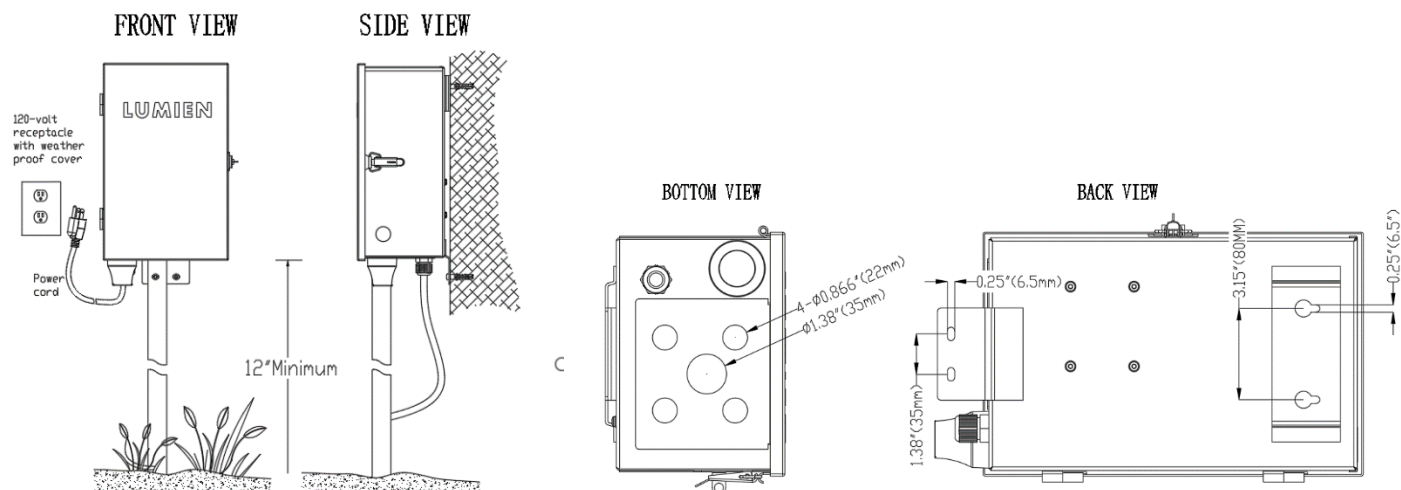


MODELS	TR-IQ400	TR-IQ600
VA	400VA	600VA
Input Voltage	120V, 60Hz	120V, 60Hz
Output Voltage (AC)	Zone 1-3: 15V: Zone 4: 18V	Zone 1-3: 15V: Zone 4: 18V
Housing Material	Stainless Steel/PC	Stainless Steel/PC
Wet Rated	Yes	Yes

**Safety Information:** These cord-connected units consist of step-down, isolated, two-winding-type transformers, circuit breakers, and associated circuitry intended to supply power to low-voltage and submersible fountain lighting fixtures.

**WARNING – Risk of Electric Shock:** Install the power unit five (5) feet or more from a pool or spa and ten (10) feet or more from a fountain. Where the power unit is installed within 10 feet of a pool or spa, connect the power unit to a GFCI-protected branch circuit. Do not use an extension cord when connecting the power unit to the 120V source. The grounding conductor must be 12 AWG minimum. Outdoor power unit must be connected to a GFCI-protected hooded flush type cover plate receptacle marked “Wet Location” while in use.

**CAUTION:** The supply circuit for the landscape lighting system shall be protected by a Class A-type ground fault circuit interrupter unless it is provided with the landscape lighting system. This device is accepted as a component of a landscape lighting system.



### **PLACING THE TRANSFORMER:**

1. Place transformer(s) in a well-ventilated area away from direct irrigation spray and central to the proposed installation site of most of the lighting fixtures. The primary goal is to minimize the length of cable runs from your transformer(s) to the lighting fixtures, which minimizes voltage drop and cable size. A common mistake is to locate the single transformer on the service side of the house or in the garage, which might result in excessively long cable runs to reach lighted areas.
2. Transformer(s) with power cords must be located adjacent to a 120-volt, GFCI-protected exterior electrical receptacle. If a 120-volt power source is not available at the desired transformer installation location, we recommend that you hire a licensed electrician to run a dedicated 120-volt, 15-amp circuit to the desired location.
3. Test all existing receptacles with both a receptacle tester and a digital voltmeter or amp clamp to verify proper wiring and voltage at the receptacle.

### **MOUNTING THE TRANSFORMER:**

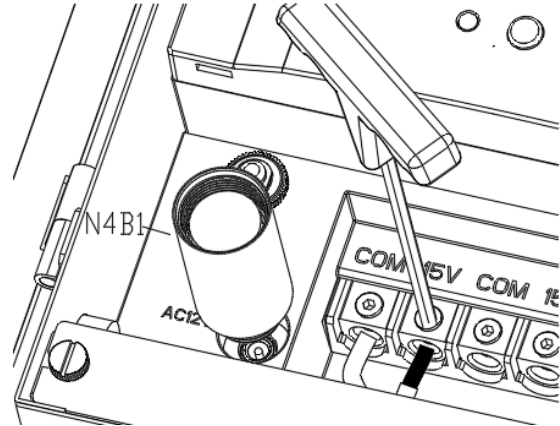
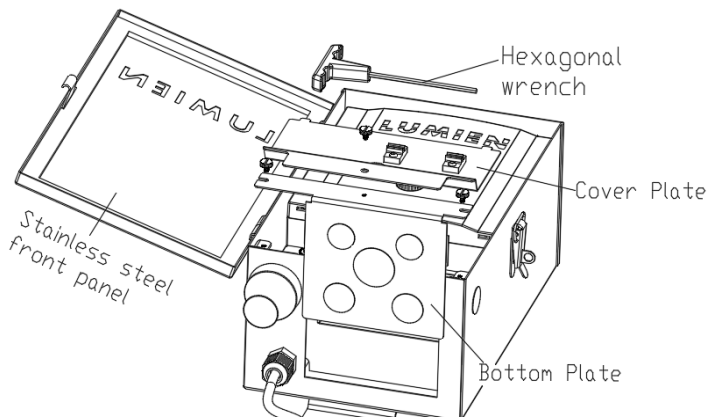
1. Install all transformers a minimum of 12" above the finish grade in the upright position.
2. Drill pilot holes into the mounting surface, insert anchors, and install screws into the anchors, leaving approximately 1/8" of thread exposed. Mount the transformer.
3. Use a level and a pencil to determine and mark locations for the bottom anchors. Remove the transformer from the wall. Drill bottom anchor holes and install the anchors.
4. Place the transformer back on top of the uppermost mounting screw and install screws into the anchors at the bottom of the transformer to secure it to the wall.

### **RUNNING WIRES TO THE FIXTURES:**

Once the transformer has been mounted and all fixture locations have been determined, the next step is to run the correct gauge wire from the transformer to the fixtures. The Lumien Lighting fixtures require 10-15V for optimal operation and longevity. This is accomplished by the following:

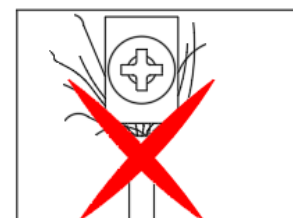
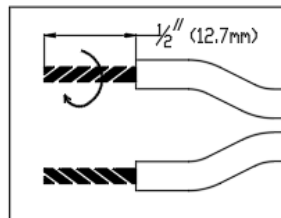
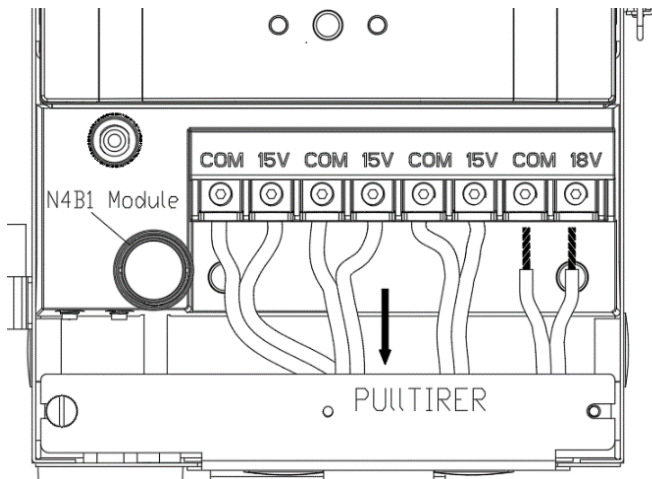
1. Group fixtures by distance as illustrated on the following page. Do not place a fixture that is ten (10) feet away from the transformer on the same wire run as one that is one hundred (100) feet away.
2. Use the proper wiring method for the application. To minimize the voltage differential between fixtures, center-load all wire runs when possible.
3. Use the proper gauge wire to accommodate for voltage drop.

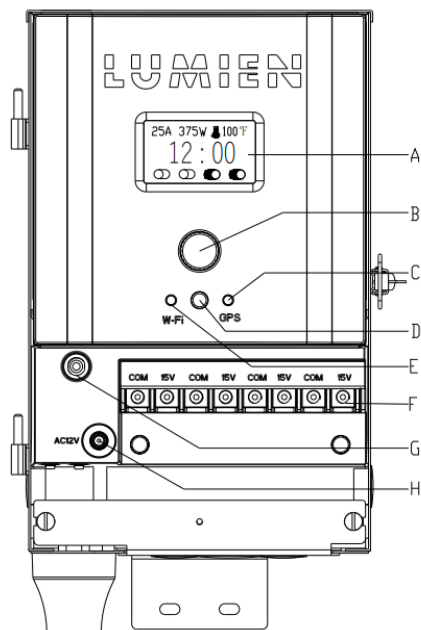
**WIRING METHOD TIP:** Within each zone, you may utilize any number of wiring methods. The primary objective is to minimize voltage drop by installing the proper gauge feeder wire (home run) to each zone, and to make sure each fixture on the wire run is receiving between 10-15V. Center feeding the “home run” (the main wire run from the transformer to the first fixture on the circuit) will help minimize the voltage differential between the first fixture and the last fixture on the wire run.



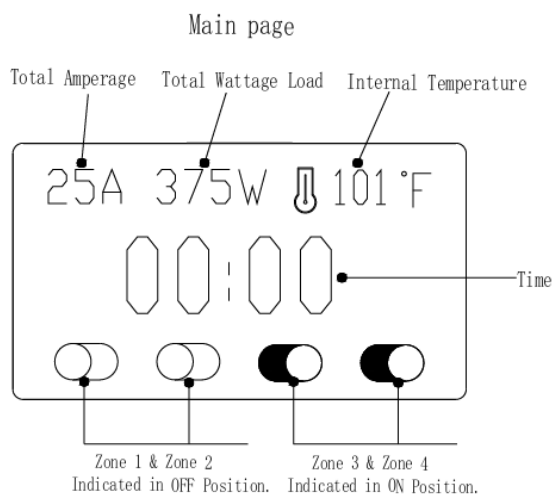
#### **CONNECTING WIRES AT THE TERMINAL BLOCK:**

1. Remove the landscape wire insulation 1/2" from both wire insulation jackets and twist ends together.
2. Open the stainless-steel front panel, remove the cover plate and the bottom plate.
3. Insert wires under each terminal plate and tighten screws. Gently pull on the landscape wire to verify if the connection is strong. Also, verify that there are no loose wire strands.

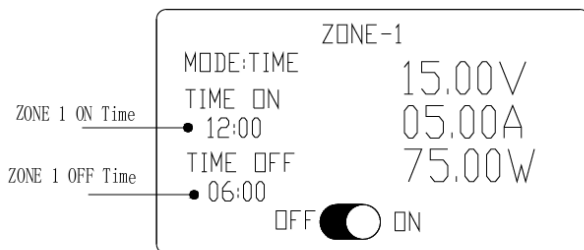




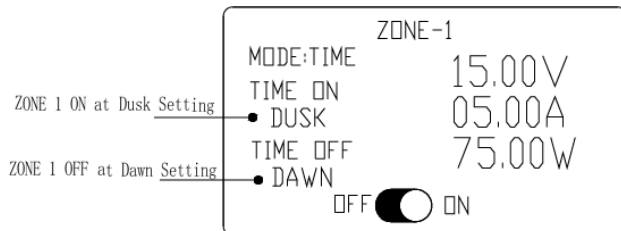
- A – LCD Screen
- B – Control Knob
- C – GPS Indicator Light
- D – Wi-Fi Button
- E – Wi-Fi Indicator Light
- F – Terminal Block
- G – Breaker
- H – Quick Connect Module Tester



ZONE-1 MODE: TIME



ZONE-1 MODE: TIME

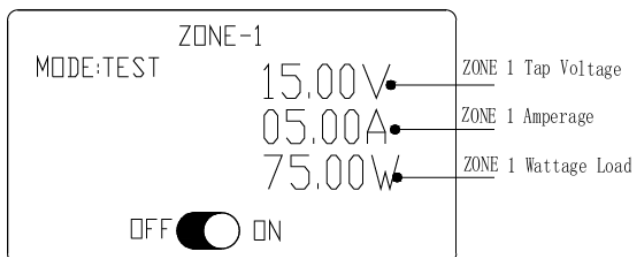


**OPERATING THE LUMIEN IQ TRANSFORMER:** There are two ways to set up your transformer – manual vs. using the Lumien Lighting App. Please be sure you read the correct instructions below.

**TEST MODE:** Transformer features a test option. When TEST is displayed under Mode setting, you can manually turn on and off the displayed zone individually.

ZONE-1 MODE: TEST

☒ ON ☐ OFF



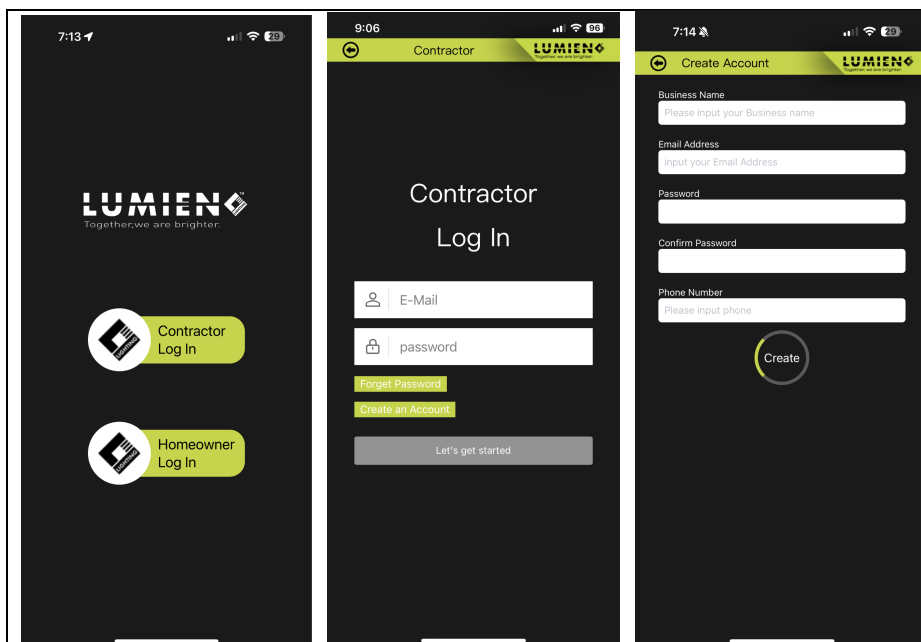
### METHOD #1 – Manual Set Up

1. Plug transformer into a 120V outlet. Transformers will power on. The main screen will appear.
2. To manually set zone settings, rotate the Control Knob to the right until Zone 1 or desired zone screen is displayed.
3. Once Zone 1 or desired zone is displayed, hold the Control Knob down for ~3 seconds. The "MODE" setting will begin to flash. At that time, use the Control Knob to change the setting from "TEST" to "TIME". Press the Control Knob ONCE to select "TIME".
4. The "TIME ON" clock should be flashing. Follow the steps below for desired setting (DUSK or TIME ON):
  - a. **DUSK:** The clock is flashing. Rotate the Control Knob to the right once. "DUSK" will be displayed and flashing. Press the knob ONCE to save.
  - b. **TIME-ON:** To manually set a "TIME ON", press the Control Knob ONCE to select the hour setting. Rotate the Control Knob to the desired hour and press ONCE. It will move to the minute setting. Rotate the knob to the desired minutes and press ONCE to select. It will move to the "AM/PM" setting. Again, use the knob to select the desired setting, and press ONCE to save.
5. The "TIME OFF" clock is flashing. Follow the steps below for desired setting (DAWN or TIME OFF):
  - a. **DAWN:** The clock is flashing. Rotate the Control Knob to the right once. "DAWN" will be displayed and flashing. Press the knob ONCE to save.
  - b. **TIME-OFF:** To manually set a "TIME OFF", press the Control Knob ONCE to select the hour setting. Rotate the Control Knob to the desired hour and press ONCE. It will move to the minute setting. Rotate the knob to the desired minutes and press ONCE to select. It will move to the "AM/PM" setting. Again, use the knob to select the desired setting, and press ONCE to save.

### METHOD #2 – Using the Lumien Lighting App

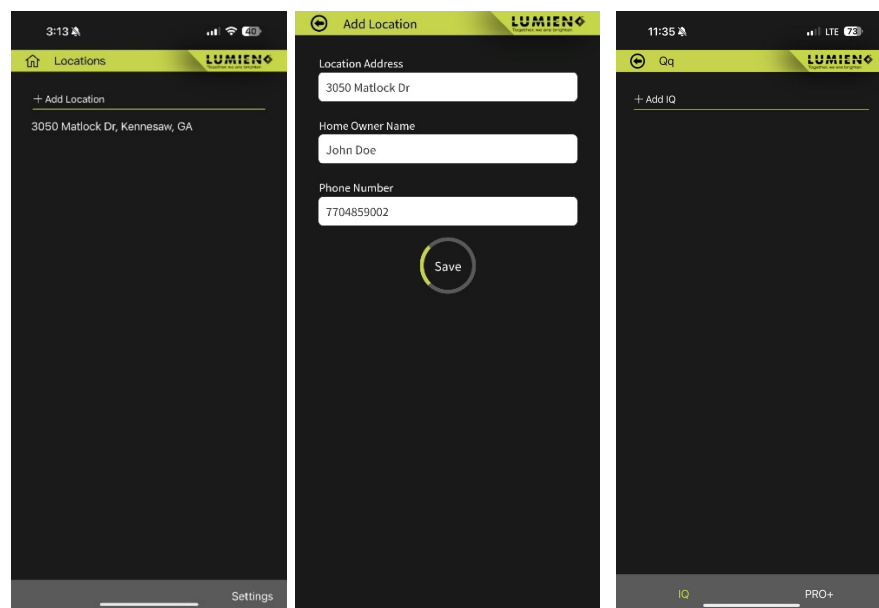
#### Downloading the App

1. Download the Lumien Lighting app in the App Store or GooglePlay.
2. Open the app and swipe right on "Contractor Log In".
3. Tap "Create Account". Input the required information as indicated. Click "Create". A confirmation email will be sent to the email you listed. This process can take up to 3-5 minutes. Always check your SPAM/JUNK folder – sometimes it goes there. Tap "Verify Email". You will receive a "Success" message.
4. Return to your Lumien Lighting app to sign in using the credentials you input.



## Creating a Location

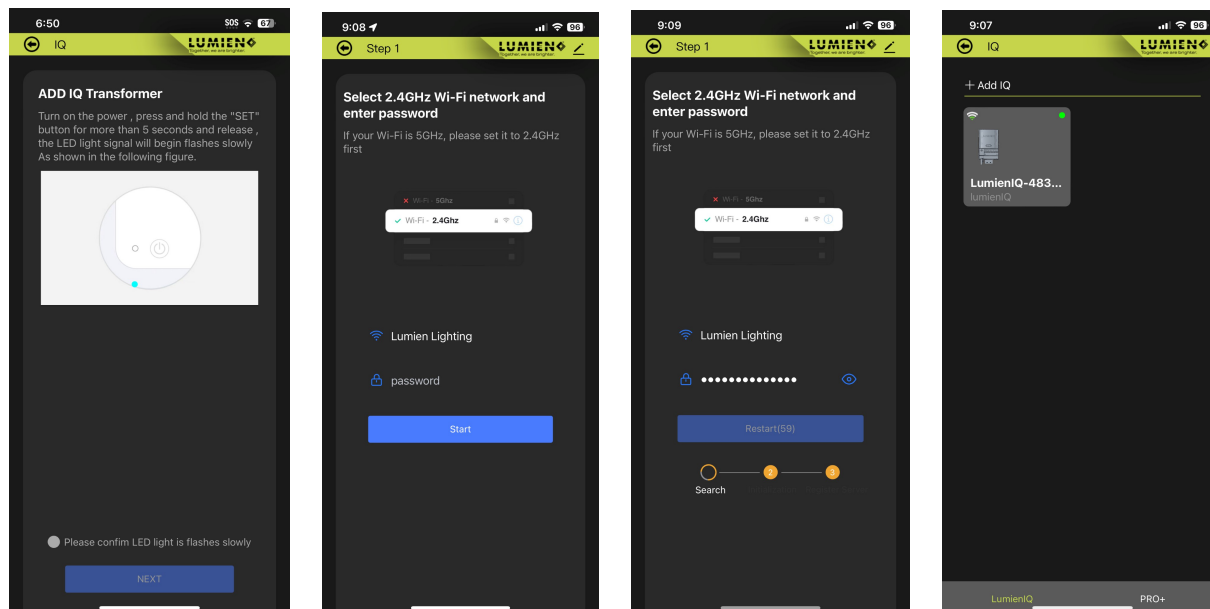
1. Tap "+Add Location" in the top-left corner to create a new location. Input the required information as indicated.



## Adding an IQ Transformer

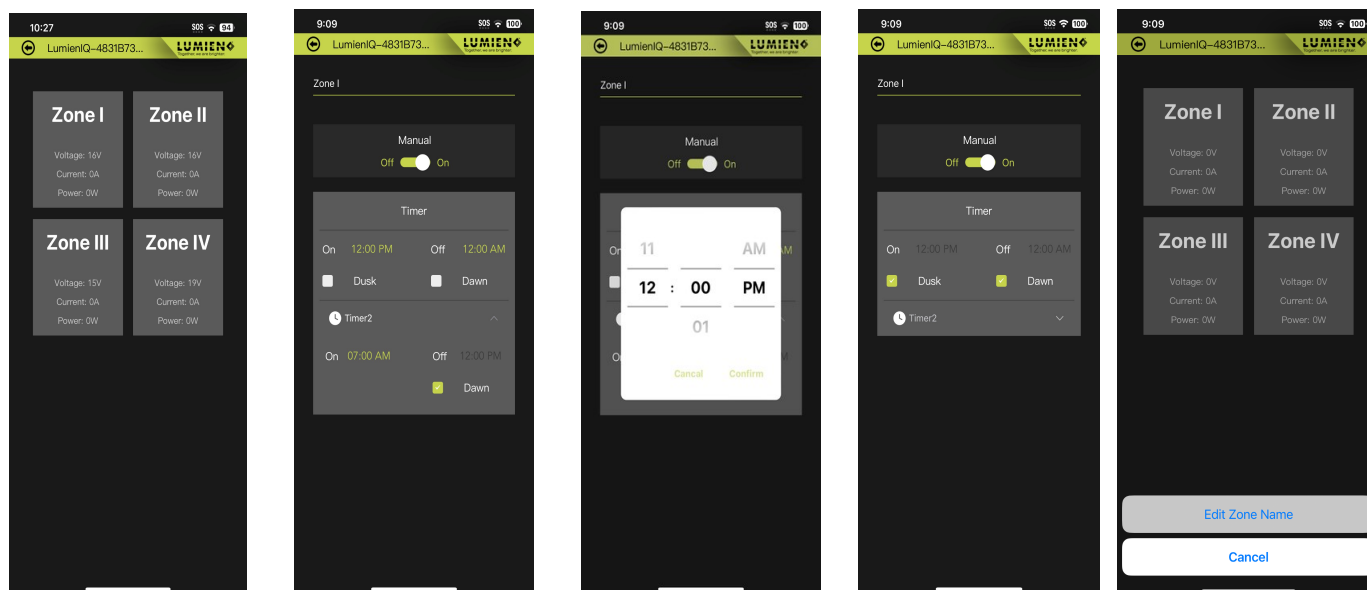
1. After the location has been added, tap the desired location to continue.
2. Click "+Add IQ" to add your IQ transformer.
3. Hold the "Wi-Fi Pairing" button down for 5 seconds. The Wi-Fi indicator light will flash slowly. Next, connect your phone to the customer's 2.4GHz wi-fi network.  
**NOTE:** You must have access to a strictly 2.4GHz Wi-Fi network to connect.
4. Go back to the app. Tap the circle button next to "Please confirm LED light is flashing slowly". Click "Next".

5. The next screen will have you confirm the network password within the app. Tap "Start". The search and pairing process will begin. This process can take a couple of minutes.
6. If pairing is successful, the IQ transformer will automatically be added to the location. If desired, you can name your transformer by holding the IQ image down for 3 seconds. Tap "Edit IQ Name" to rename.



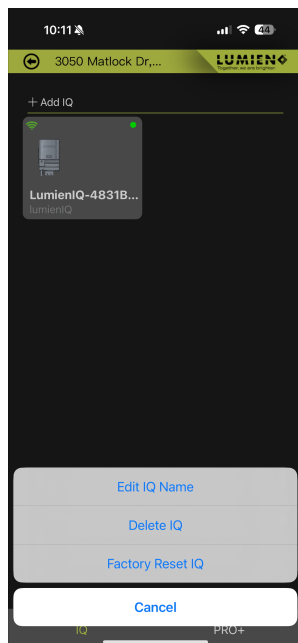
## Dialing in Your Zones

1. Tap the IQ transformer image to see all zone information. Tap desired Zone to change individual settings.
2. Once in your desired zone, you can control the transformer manually, time on/off, dusk on/time off, time on/dawn off, or dusk/dawn. There is also a feature to create a secondary timer if needed.
3. You can rename your individual zone by holding the zone down for 3 seconds (shown below).



### Factory Reset & Deleting IQ from App

1. There are different options available to you when you hold down the IQ.
  - a. Edit IQ Name: Use this to give your transformer a specific name
  - b. Factory Reset IQ: Use this to reset the IQ back to factory settings. It will still be connected to your app.
  - c. Delete IQ: Use this to remove IQ from app after factory reset



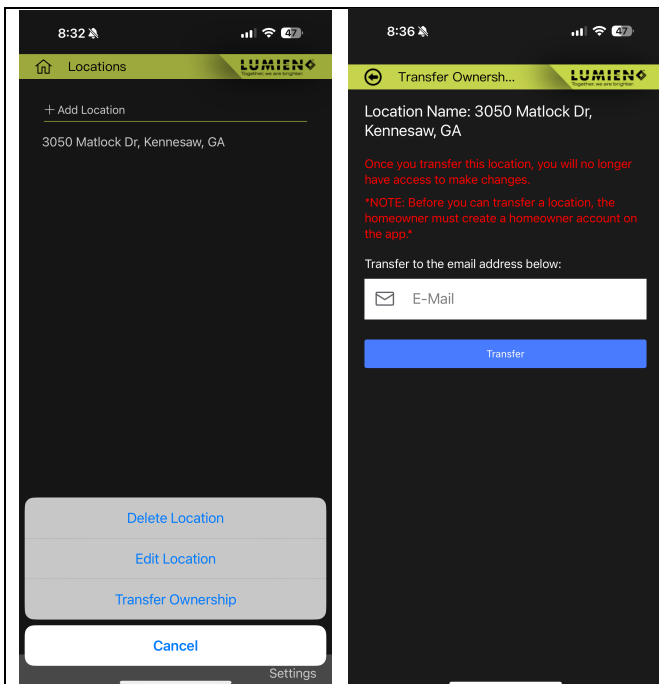
### Transferring Ownership to the Homeowner

**\*NOTE: Before you can transfer a location, the homeowner must create a homeowner account on the app.\***

1. Tap the desired location that you wish to transfer.
2. Hold the Location Name for 3 seconds. A menu will appear at the bottom of the screen.
3. Click "Transfer Ownership".
4. Enter the homeowner's email that they used to create their account. It must match.
5. Click the blue "Transfer" button. All settings have been transferred to the homeowner's app.

At this point, the homeowner can click the location on their phone/app and control their transformers.





### For A Contractor to Re-Gain Access to the System

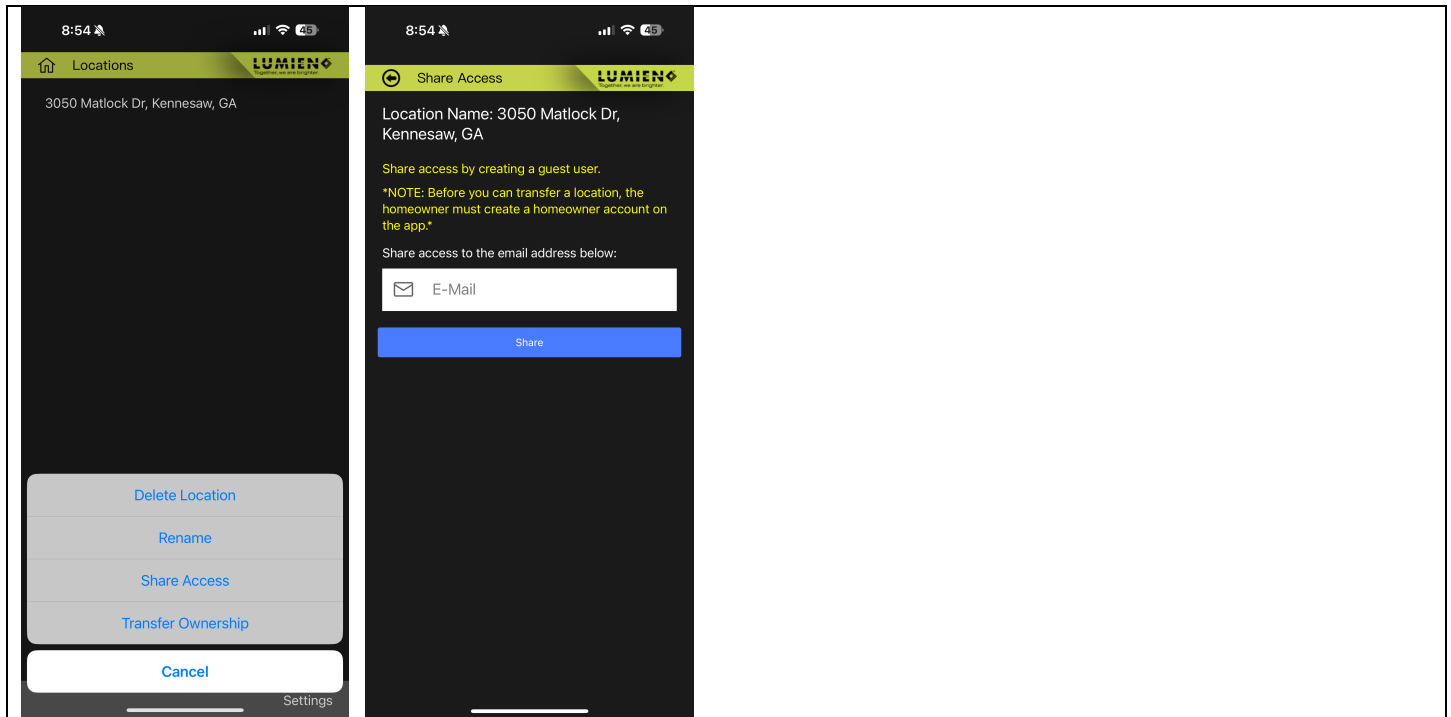
**\*The homeowner now has a location setting called "Share Access". Follow the steps below to have access to your customer's location if you wish.**

**\*For the homeowner to share access with a guest user, the guest must create a new homeowner account to receive access.**

1. Hold the location down for 3 seconds. A menu will appear at the bottom of the screen.
2. Click "Share Access".
3. Type in the guest user's email address (or contractor) and access will be shared.

### Homeowner to Homeowner – Transfer Ownership

**This should only be used in the event of a sale of the home or a similar event. Once the homeowner transfers ownership, they will no longer have access to the transformers.**



**For any troubleshooting questions regarding the LumienIQ  
transformers, please contact our office:  
Call 770-485-9002  
E-Mail [app@lumienlighting.com](mailto:app@lumienlighting.com)**