Operation Guide

Thank you for purchasing the Larson Electronics **EPL-24-2L-LV-SOL-60C** solar powered LED light. Follow the steps below for installing and maintaining your unit.

IMPORTANT

READ CAREFULLY BEFORE OPERATING THIS LIGHT. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

THIS FIXTURE SHOULD BE INSTALLED BY QUALIFIED TECHNICIANS IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL REQUIREMENTS.

WARNING: IF UNSURE ABOUT ANY SECTION OF THESE INSTRUCTIONS, CONSULT A QUALIFIED PROFESSIONAL TO INSTALL THIS DEVICE.

WARNING: DEVICE IS SUITABLE FOR INSTALLATION IN WET LOCATIONS.

WARNING: ALTHOUGH WATERPROOF, ANY PART OF THIS UNIT IS NOT DESIGNED OR INTENDED TO BE SUBMERGED.

WARNING: DO NOT ALLOW DETACHABLE WIRES TO BECOME SUBMERGED!
IF DROPPED OR DAMAGED, THE UNIT MAY NO LONGER BE WATERPROOF AND SHOULD BE REPLACED.

HOW SOLAR LIGHT WORKS

Solar light must be placed outdoors. The solar panel collects and converts sunlight into DC power while the pre-installed rechargeable batteries store the energy to power the light at night.

Solar light illumination time

It depends on the seasonal sunlight availability in your geographical area under certain weather conditions. Stronger or longer sunlight hours enable batteries to store more energy which provides more lighting hours. On the contrary, weaker or shorter sunlight hours reduce the lighting hours and its brightness as well.

Solar panel mounting locations

Solar panel must be placed outdoor at a location with its solar panel receiving direct sunlight at least five hours each day. Shadowed locations will not allow batteries to be fully charged and will reduce both the brightness of the light and the lighting hours. Precautions (prior to first time use)

1. To maximize battery capacity, the solar panel should be fully charged by direct sunlight for five hours before initial use.
2. Under extremely cold temperatures, the batteries may not charge fully. In such cases, the Solar Lights may not stay illuminated as long.

MOUNTING SOLAR PANEL

This solar panel includes a permanent mounting system that allows for mounting to square/round poles or flat surfaces such as a wall or post shown in figure 1.

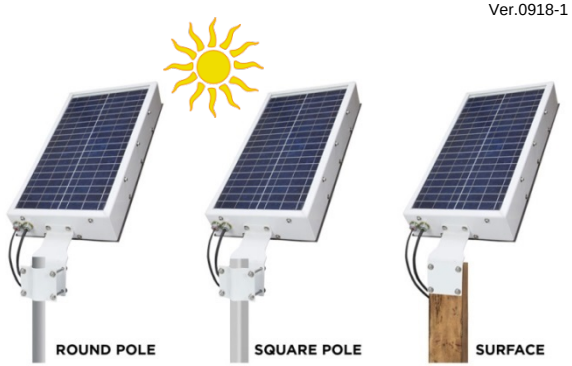
Position the solar panel in a location that receives the maximum amount of sunlight throughout the day. This may need adjusted depending on the season. With pole mounting, loosen the adjustment bolts to fit solar panel onto pole. Once mounted, tighten bolts snug to secure panel to pole. For surface mounting, remove additional plate and use the existing mounting holes to mount directly to surface.

MOUNTING

The light is connected to the panel by cord. Be sure the light is connected to the solar panel and that the deutsch connections are tight. Run the cord and mount the light nearby.



DEUTSCH CONNECTION



LAMP INSTALLATION

PRECAUTIONS

- Do not install fixture in any classified location where the marked operating temperature exceeds the ignition temperature of the hazardous atmospheres.
- Consult fixture nameplate for the suitability ambient temperature shown on the nameplate.
- Refer to fixture nameplate for minimum supply wire temperature rating.
- Verify that the supply voltage agrees with fixture rating as indicated on nameplate.
- All local and national electrical/building codes must be followed when installing this lighting fixture. For code interpretation, consult your local authority.
- Product must be used only with glass tubes intact and all cap threads fully engaged. Do not use if glass tubes are cracked or damaged.

Caution: Only use lamp size, type and /or wattage as shown on fixture nameplate.
We strongly recommend that only a licensed electrician install this product.

WARNING: Make sure that the power is disconnected before installing. This fixture is heavy and must be mounted to a surface that can structurally support the load.

NOTE: This fixture requires a minimum of 50 inches of clearance from re-lamp end for lamp replacement. An optional drop mounting kit that will allow for end to end row mounting is available, please consult factory.

WARNING: Do not let fixture hang on one bracket at any time. Failing to comply can result in breakage of end casting or mounting bracket, allowing the fixture to fall, which can cause serious injury or death.

- The mounting brackets are shipped installed on the fixture.
- Install the brackets to wall or ceiling with two 3/8" bolts (not supplied) at center measurements.
- Fixture is now ready for mounting.

It is strongly suggested to use two licensed electricians to proceed with the final mounting of the fixture to avoid any possible personnel injury or damage to the fixture as the unit is heavy and will be slightly awkward to hold in position and attach to brackets mounted on wall or ceiling. Depending on mounting height and scaffolding, a hydraulic man–lift or two good quality ladders should be used.

DAY/NIGHT SENSOR

The dusk to dawn photocell activates the light at night and turns it off at dawn. For operating the unit full time, slide the cover over the photocell sensor to disable it. This can be repositioned by loosening the set screw on the side and tightening once desired angle is achieved. The selected location should not be near night time light sources such as porch lights or street lights as they may cause the light to turn off at night.

MOTION SENSOR

When the motion sensor detects movement, the light is turned on. Once motion has stopped, the light turns off after the set time delay. The **Time Delay** can be adjusted with the dial on the motion sensor located inside the solar panel enclosure.

TO ADJUST TIME DELAY:

1. With a 3/16 Allen wrench, remove the screws holding the back plate to the solar panel. There are 10 screws securing the back plate.
2. Once free, lift back plate and locate the motion sensor inside. This is attached to the back plate. Be careful not to stress the wires connected to the motion sensor when lifting.
3. With a small flathead screwdriver, rotate the dial on the motion sensor to the new time delay you wish to set. Point the arrow to the number indicated on the motion sensor. Fully counter-clockwise is a 1 minute delay while fully clockwise is a 10 minute delay. ***Do not force the adjustment screw past its stopping points.***



4. Once set, replace the back panel on the solar panel. Replace all screws removed earlier and tighten. Be sure the back plate is fully seated and that there are no pinched wires to maintain weatherproofing.

The minimum time (fully counter-clockwise) is approximately 1 minute and the maximum time (fully clockwise) is approximately 10 minutes. Set the control to the desired setting between these limits.

The motion sensor has an effective range of 16 feet and can sense a moving human body to 26 feet with a field of view of 60 degrees.

CHARGING

With up to 5 hours of daily sunlight, this light is designed to function 10 hours. Ensure there are no obstructions that could result in little to no sun reaching the panels. Indirect sunlight will extend the charge time. As with all solar powered equipment, charging time is affected by the amount of available ambient light. When ambient light levels drop below a certain level, such as on cloudy days, the unit will not recharge as quickly.

MAINTENANCE

If the lens or solar panel becomes dirty, wipe down with a mild soap and water solution.

Keep snow and debris clear of the solar panel so the batteries can charge. If the panels are covered by snow or debris for an extended period of time, allow the battery to charge in full direct sunlight for at least 5 hours for the battery to reach its full capacity.

It is recommended to occasionally inspect the unit for any defects.

TROUBLESHOOTING

If for any reason the LED light does not power on:

- ➔ **Batteries not fully charged:** Make sure the fixture is placed in an area where the solar panel gets the maximum amount of full, direct sunlight every day. If the solar panel does not receive enough sunlight during the day (e.g. due to cloudy or overcast weather conditions), it will be recharged on the next sunny day and resume operation.
- ➔ **Other light sources:** If your solar light is located too close to street lights, porch lights or other lights, the solar panel may turn off the fixture. Relocate the solar panel or eliminate those other light sources.
- ➔ **Not enough direct sunlight:** Ensure that the fixtures are not installed in a shady area, for example, in the shadow of a tree or a house. If necessary, move the fixtures to an area that gets full direct sunlight.
- ➔ **Switch is in the OFF position:** (For units equipped with a power switch.) Cycle power button in a dark room. The light(s) should come on when the switch is in the on position if the unit is fully charged.

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INSTRUCTIONS FOR RELAMP

⚠WARNING

- To avoid risk of fire, explosion or electric shock, this product should be maintained by a qualified electrician only, in accordance with all applicable codes and regulations.
- To avoid electric shock: Be certain electrical power is OFF before and during maintenance.

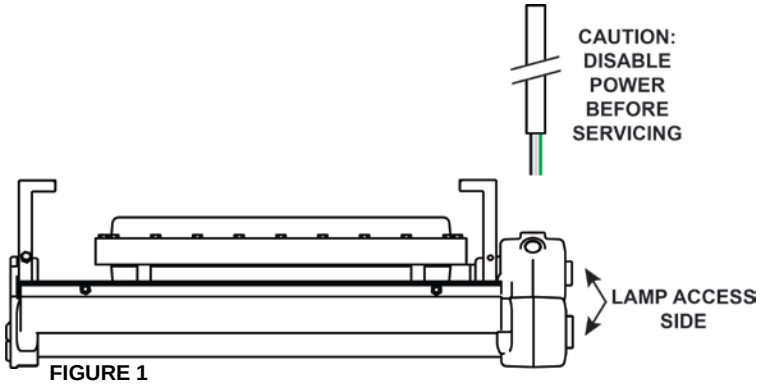


FIGURE 1

Caution: Only use lamp size, type and/or wattage as shown on fixture nameplate.

1. Disconnect power to the fixture prior to servicing. **FIGURE 1**

2. With a wrench, remove end-cap (lamp access cover) for the lamp you wish to replace. Rotate counter-clockwise. **FIGURE 2**



FIGURE 2

3. Loosen the two lamp holder bracket screws holding the old lamp. **FIGURE 3** Twist and remove the lamp holder bracket. **FIGURE 4**

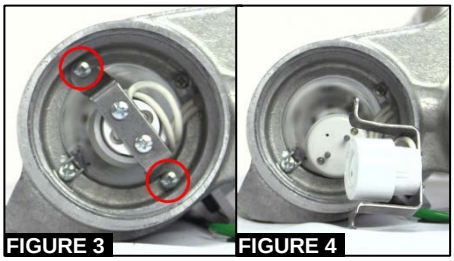
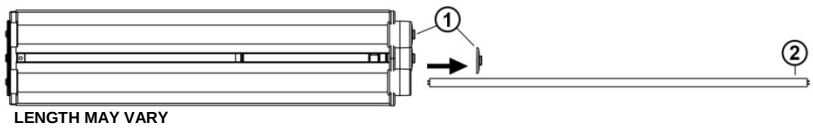


FIGURE 3 FIGURE 4

4. Remove the old lamp and install the new lamp, seating lamp in opposite lamp holder. **FIGURE 5**



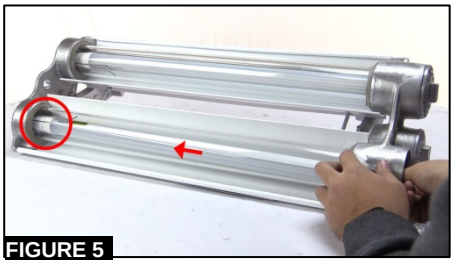


FIGURE 5

5. Replace lamp holder into position on the lamp. Twist slightly to place the lamp holder bracket under screw heads and tighten the screws. **FIGURE 3**

6. Reattach end-cap. Rotate clockwise. **FIGURE 6**

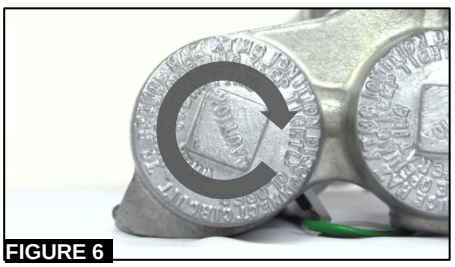


FIGURE 6