Operation Guide

Thank you for purchasing the Larson Electronics **SOL240-2XWP50E-2X200A-RMBB-DNS-7.63SQ** 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.

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 BEACON IS WATERPROOF, IT 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.
- TO AVOID HAZARDS TO CHILDREN, ACCOUNT FOR ALL PARTS AND DESTROY PACKING MATERIALS.
- ON SOME UNITS, THE BASE CONTAINS A MAGNET. PEOPLE WITH PACEMAKERS SHOULD CONSULT THEIR PHYSICIAN(S) BEFORE USE. ELECTROMAGNETIC FIELDS IN CLOSE PROXIMITY TO HEART PACEMAKER COULD CAUSE PACEMAKER INTERFERENCE OR PACEMAKER FAILURE.

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

The LED lamp is mounted to the top of a square-tapered utility pole, with a measurement of 7.63" x 7.63". Using a two-piece bracket mount, the solar panel clamps to the side of the existing square-tapered utility pole. The charge system and control box are mounted at the base of the pole.

MOUNTING LED LAMP

1. **Select a location to install the fixture.** This LED assembly is IP68 waterproof and built to resist the damaging effects of an outdoor environment.
2. **Affix mount to square-tapered utility pole.** Loosen bolts of mounting base and mount to top of pole. Tighten bolts to secure to pole. Plan a way for wiring to run when mounting.
3. **Lamp Adjustment.** Adjustment screws on either side of each lamp allows for vertical movement. Simply loosen each screw enough to move the light vertically. Tighten once the desired angle is achieved. For horizontal movement, loosen the center mounting bolt and tighten once complete. The fixture can be placed in any direction.

The LED light assembly ships with your selected Color Temperature.

MOUNTING SOLAR PANEL

This solar panel includes a two-part permanent mounting system that is designed for mounting to square-tapered utility poles.

Attach the solar panel to the side of existing utility pole. Loosen the bolts on the mount to remove the top piece. Fit solar panel onto side of utility pole. 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. Replace top plate and tighten bolts snug to secure panel to pole. Run cable down to control box at the base of the pole.



IMAGES VARY.

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 beacon to turn off at night.

CONTROL BOX

Place the control box at the base of the pole.

Move the power switch to its **ON** position to power the internals. Make sure all breakers and switches are moved to the **ON** position at this time. This will enable power to your attached devices and allow the solar panels to begin charging the batteries.

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 beacon 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:** (For units equipped with a day/night sensor.) 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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