

KOOPER TLL090

KOOPER Solar Lanterns Outdoor Waterproof

MODEL: TLL090

1. Introduction

This manual provides instructions for the KOOPER Solar Lanterns Outdoor Waterproof (Model TLL090). These lanterns are designed for outdoor decorative lighting, featuring solar charging, automatic operation, and a durable, waterproof construction. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your solar lanterns.

The package includes 4 solar lanterns and this user manual.

2. Setup

1. **Unpack:** Carefully remove all lanterns and components from the packaging.
2. **Activate:** Locate the ON/OFF switch, typically found on the underside of the solar panel. Slide the switch to the "ON" position.
3. **Remove Protective Film:** Gently peel off any clear protective plastic film from the surface of the solar panel. This is crucial for efficient solar charging.
4. **Placement:** Choose an outdoor location that receives 6-8 hours of direct, unobstructed sunlight daily. Ensure no shadows from trees, buildings, or other structures fall on the solar panel during the day.
5. **Installation:** Use the integrated hook to hang the lanterns from a tree branch, shepherd's hook, or wall bracket. Alternatively, place them on a flat surface such as a table or step.



Image: Solar lanterns charging in sunlight and glowing at night. Shows 6-8 hours auto charging and 10-14 hours auto lighting.

2026 NEWEST Solar Lanterns



Image: A solar lantern with dimensions (9.1 inch height, 5.9 inch lantern height, 4.1 inch width) and close-ups of the high-efficiency solar panel, upgraded filament LED, and sturdy metal hook.

Video: A short demonstration of the KOOPER Solar Lanterns, highlighting their outdoor decorative use and IP65 waterproof rating.

3. Operation

- **Automatic Charging:** Once the switch is in the "ON" position and the protective film is removed, the lanterns will automatically absorb sunlight and charge their internal battery during the day.
- **Automatic Illumination:** A built-in light sensor detects ambient light levels. At dusk, when light levels are low, the

lanterns will automatically turn on.

- **Lighting Duration:** On a full charge (typically 6-8 hours of direct sunlight), the lanterns will provide 10-14 hours of continuous illumination.
- **Automatic Shut-off:** At dawn, as light levels increase, the lanterns will automatically turn off and resume charging.



Image: Two KOOPER solar lanterns providing warm light on an outdoor patio at night, creating an inviting atmosphere.



Image: Multiple KOOPER solar lanterns placed in different outdoor environments, including by a pool, on a porch, and near a mailbox, demonstrating versatile placement options.

4. Maintenance

- **Cleaning the Solar Panel:** To ensure optimal charging efficiency, periodically wipe the solar panel surface with a soft, damp cloth to remove any accumulated dust, dirt, leaves, or snow. Avoid abrasive cleaners.
- **Clear Obstructions:** Regularly check that no new foliage or objects are obstructing the solar panel's exposure to direct sunlight.
- **Weather Resistance:** The lanterns are designed with an IP65 waterproof rating, making them resistant to rain, snow,

wind, and heat. They do not require special protection during most weather conditions.



Image: A KOOPER solar lantern hanging outdoors in the rain, illustrating its IP65 waterproof, frost-resistant, heat-resistant, and wind-resistant features.

5. Troubleshooting

- **Lanterns do not light up at night:**
 - Ensure the ON/OFF switch is in the "ON" position.
 - Verify the solar panel is clean and free from any obstructions.

- Confirm the lantern receives 6-8 hours of direct sunlight daily. Relocate if necessary.
 - Allow the lantern to charge for at least 2 full sunny days before expecting full performance, especially after initial setup or prolonged storage.
- **Lanterns light up for a short duration:**
- The solar panel may not be receiving enough direct sunlight for a full charge. Check placement and obstructions.
 - The battery may not be fully charged due to cloudy weather or insufficient sun exposure. Allow more charging time.
 - Extreme cold weather can reduce battery efficiency and overall lighting duration.

6. Specifications

Feature	Detail
Brand	KOOPER
Model Number	TLL090
Power Source	Solar Powered
Material	Metal
Finish Type	Polished
Mounting Type	Hanging
Water Resistance Level	IP65 Waterproof
Battery Life	Up to 14 Hours (on full charge)
Number of Light Sources	4 (per pack)
Light Source Special Features	Warm Glow, Auto ON/OFF
Item Dimensions (L x W x H)	4.1"L x 4.1"W x 15"H

UPGRADED HIGH EFFICIENCY SOLAR PANEL

Large charging area, faster charging speed



40%+

Conversion Rate



2X

Charging Speed



800mAh

High-Capacity
Battery



Image: Close-up of the upgraded high-efficiency solar panel, highlighting its large charging area, 40%+ conversion rate, 2X charging speed, and 800mAh high-capacity battery.

Upgraded Premium Tungsten Filament Bulb

Bright & Soft Filament Light for a Cozy, Romantic Ambiance
Brighter Your Outdoor Spaces

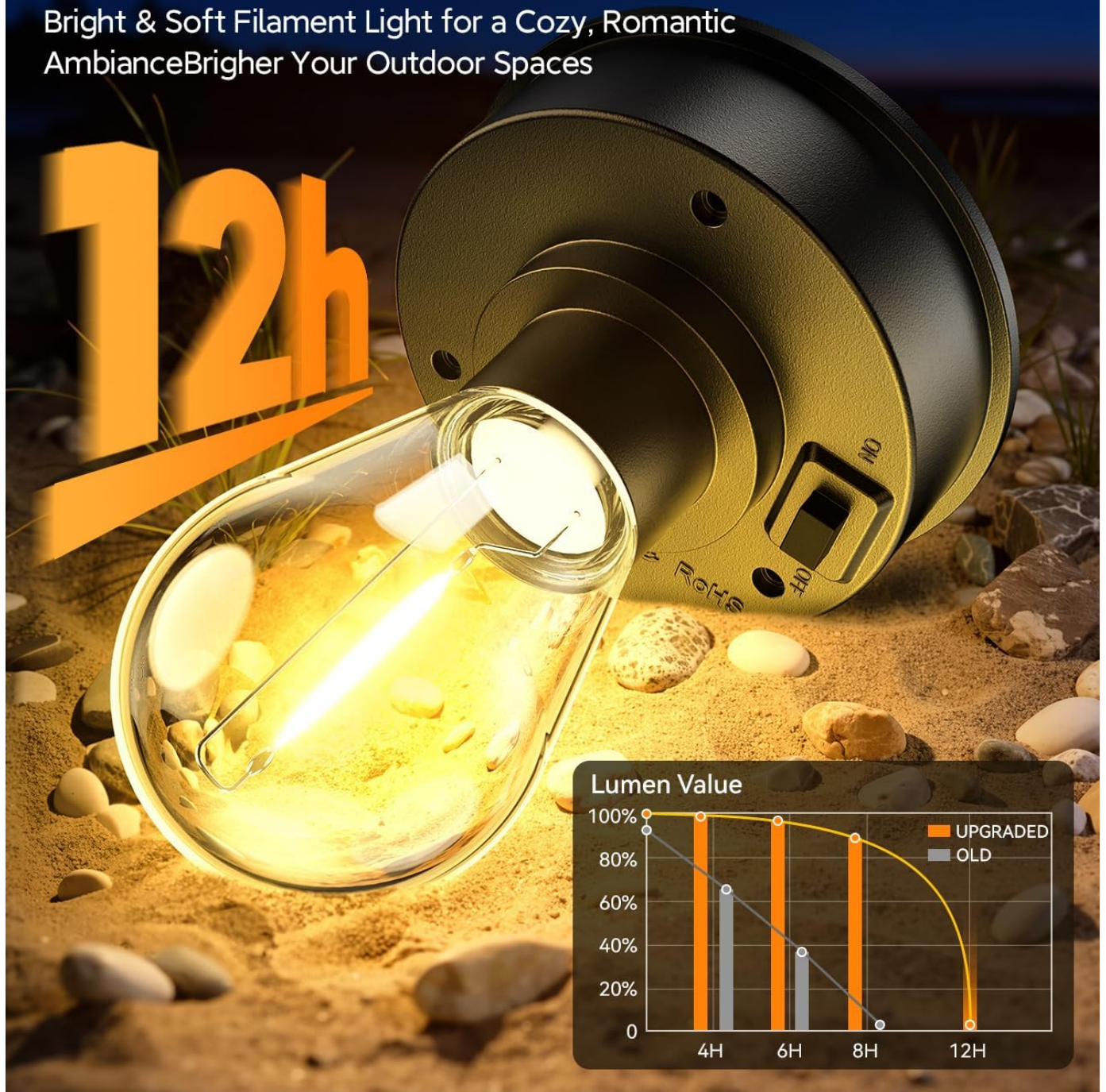


Image: Detail of the upgraded premium tungsten filament bulb, showing its bright and soft filament light for a cozy ambiance and a lumen value graph indicating 12 hours of illumination.

7. Warranty and Support

The KOOPER Solar Lanterns come with a 90-day manufacturer's warranty. For warranty claims or technical support, please contact KOOPER customer service through your purchase platform or the contact information provided with your product packaging.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question