**RL LIVE YOUR LIGHT Macapa R23066101**

# Reality Leuchten Macapa R23066101 LED Solar Outdoor Wall Light User Manual

## 1. INTRODUCTION

Thank you for choosing the Reality Leuchten Macapa R23066101 LED Solar Outdoor Wall Light. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new outdoor lighting fixture. Please read these instructions carefully before use and retain them for future reference.

The Macapa wall light is designed to provide atmospheric and functional illumination for outdoor spaces. It features an integrated solar panel for energy efficiency, a twilight sensor for automatic activation in low light conditions, and a motion sensor for enhanced security and convenience. Its robust plastic construction ensures durability in outdoor environments.

## 2. SAFETY INFORMATION

- This product is designed for outdoor use only. Do not install indoors.
- Ensure the mounting surface is stable and can support the weight of the fixture.
- Do not attempt to disassemble or modify the light fixture. This may void the warranty and pose a safety risk.
- Keep the solar panel clean and free from obstructions to ensure optimal charging performance.
- Dispose of batteries responsibly according to local regulations.
- Avoid direct eye exposure to the LED light source.

## 3. PRODUCT OVERVIEW

The Macapa solar LED outdoor wall light integrates several key components for its functionality:

- **Solar Panel:** Located on the top, it charges the internal battery during daylight hours.
- **LED Array:** Provides illumination.
- **Motion Sensor:** Detects movement within its range.
- **Twilight Sensor:** Activates the light automatically when ambient light levels are low.
- **Power Button/Mode Selector:** Used to turn the light on/off and switch between operating modes.

Figure 3.1: Angled view of the Macapa solar LED outdoor wall light, showcasing its design and components.



Figure 3.2: Detailed view of the integrated motion sensor and the power/mode button located on the front of the light fixture.

## 4. SETUP AND INSTALLATION

The Macapa wall light is designed for quick and easy installation. A mounting instruction is included with the product for detailed steps.

1. **Choose a Location:** Select an outdoor location that receives direct sunlight for most of the day to ensure optimal charging of the solar panel. Avoid areas under eaves, trees, or other obstructions that might shade the panel.
2. **Mark Drilling Points:** Use the light fixture as a template to mark the positions for drilling holes on your chosen wall.
3. **Drill Holes:** Drill holes at the marked positions. Insert wall plugs if necessary for your wall type.
4. **Mount the Light:** Secure the light fixture to the wall using appropriate screws. Ensure it is firmly attached.
5. **Adjust Solar Panel (if applicable):** The swiveling shade allows for optimal alignment of the solar module. Adjust it to face the sun for maximum charging efficiency.
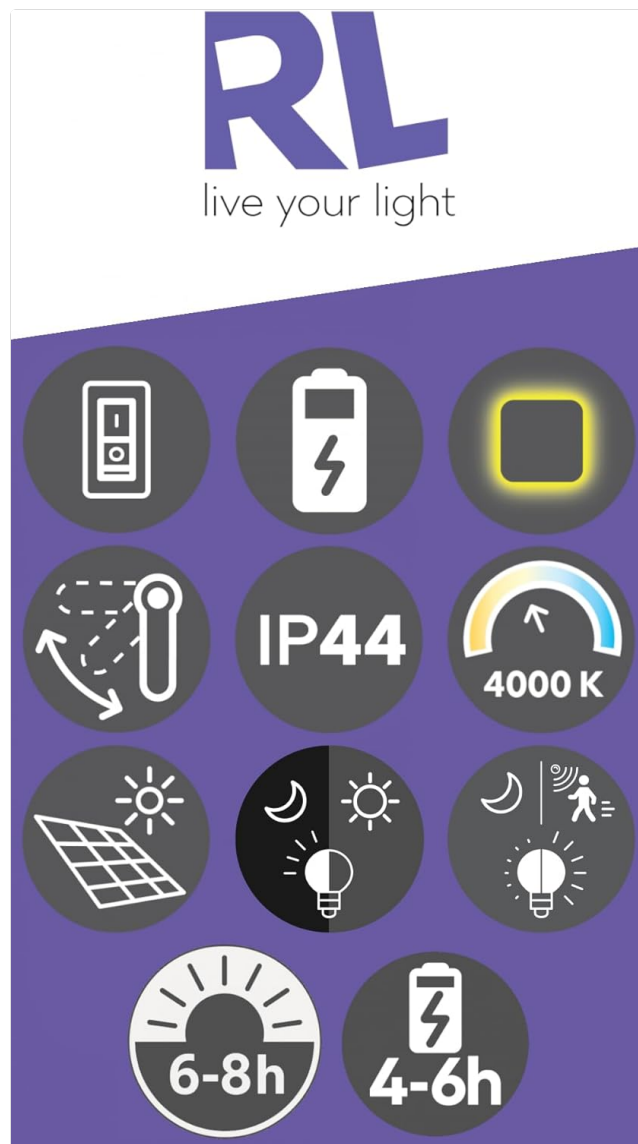
Figure 4.1: Rear view of the light, indicating the mounting points for installation on a wall.

Figure 4.2: The Macapa light installed on an outdoor wall, demonstrating its placement and illumination in an evening setting.

## 5. OPERATION

The Macapa wall light operates automatically based on ambient light and motion detection. It charges during the day and activates at night.

### Charging

The integrated solar panel charges the internal battery during daylight hours. A full charge typically takes 4-6 hours of direct sunlight and provides approximately 6-8 hours of illumination.

### Light Modes

The light features two selectable operating modes, which can be switched using the button on the front of the fixture:

- **Mode 1 (Motion Activated - Off):** When motion is detected, the light illuminates at 100% brightness. After a period of no motion, the light turns off completely.
- **Mode 2 (Motion Activated - Orientation Light):** When motion is detected, the light illuminates at 100% brightness. After a period of no motion, the light dims to a permanent 5% orientation light.

If the battery charge drops below 30%, the light will automatically switch to Mode 1 to conserve power.

Figure 5.1: Top-down view of the Macapa light, showing the LED array illuminated.

## 6. FEATURES

The Macapa R23066101 LED Solar Outdoor Wall Light offers a range of features designed for convenience and efficiency:

- **Robust Outdoor Design:** Constructed from durable plastic in matt white, ensuring longevity and resistance to outdoor elements. The swiveling shade allows for optimal positioning of the solar module and light direction.
- **Advanced Sensor Technology:** Equipped with a motion sensor offering an 8-meter detection range at 180°, and a twilight sensor that ensures the light only activates in low light conditions.
- **Efficient Illumination:** Features a 5-watt LED with 390 lumens, providing neutral white light at 4000 Kelvin for clear and effective outdoor lighting.
- **IP44 Protection:** Rated IP44, making it splash-proof and suitable for various outdoor applications such as gardens, house walls, and terraces.
- **Long Working Time:** The solar-charged battery provides approximately 6-8 hours of light duration after a 4-6 hour charge.
- **Energy Efficiency:** Contains an energy efficiency class F light source, contributing to reduced energy consumption.



Figure 6.1: Visual representation of the Macapa light's key features and specifications.

Figure 6.2: An illustration explaining different IP (Ingress Protection) classifications relevant to outdoor lighting, highlighting the suitability of IP44 for general outdoor use.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Macapa solar wall light.

- **Cleaning the Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, and debris. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Cleaning the Light Fixture:** Clean the plastic housing and LED cover with a soft, dry, or slightly damp cloth. Avoid abrasive cleaners or solvents that could damage the surface.
- **Battery Replacement:** The internal battery is designed for long-term use. If the light's performance significantly degrades over time, consult the manufacturer for information on battery replacement or service.

## 8. TROUBLESHOOTING

If you encounter issues with your Macapa solar wall light, refer to the following troubleshooting guide:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| Light does not turn on at night. | Insufficient solar charge. | Ensure the solar panel is exposed to direct sunlight for 4-6 hours daily. Clean the solar panel if dirty. |
| Light is dim or only stays on for a short period. | Battery not fully charged or aging battery. | Relocate the light to an area with more direct sunlight. If the problem persists after prolonged charging, the battery may need service. |
| Motion sensor not detecting movement. | Sensor obstructed or incorrect angle. | Ensure the sensor lens is clean and unobstructed. Adjust the light's position or angle if necessary. |
| Light stays on continuously or does not turn off. | Twilight sensor malfunction or constant ambient light. | Check for nearby light sources (e.g., streetlights) that might be interfering with the twilight sensor. |

## 9. SPECIFICATIONS

Key technical specifications for the Reality Leuchten Macapa R23066101 LED Solar Outdoor Wall Light:

| Specification | Value |
| --- | --- |
| Brand | RL LIVE YOUR LIGHT |
| Model | Macapa R23066101 |
| Colour | White |
| Material | Plastic, Metal |
| Product Dimensions (L x W x H) | 10.5L x 23W x 18.5H centimetres |
| Item Weight | 0.58 Kilograms |
| Power Source | Solar Powered |
| Number of Light Sources | 1 |
| Special Features | Energy Efficient, Motion Sensor, Twilight Sensor, Orientation Light |
| Indoor/Outdoor Use | Outdoor |
| Batteries Required | Yes (integrated) |
| Included Components | Mounting instruction |
| Energy Efficiency Class | F |



Figure 9.1: Energy efficiency label for the integrated light source, indicating class F.

Figure 9.2: Dimensional drawing of the Macapa R23066101, showing length, width, and height measurements.

## 10. WARRANTY AND SUPPORT

Warranty information for the Reality Leuchten Macapa R23066101 LED Solar Outdoor Wall Light is typically provided with the product packaging or can be obtained from your point of purchase. Please retain your proof of purchase for warranty claims.

For technical support, service, or further inquiries, please contact the manufacturer or your retailer. Refer to the contact information provided in your product documentation.