Luceco LEXSF11B40-01

Luceco Solar Guardian PIR Floodlight 10W User Manual

Model: LEXSF11B40-01 | Brand: Luceco

INTRODUCTION

Thank you for choosing the Luceco Solar Guardian PIR Floodlight. This solar-powered LED floodlight is designed to provide efficient and reliable outdoor illumination with the added security of a Passive Infrared (PIR) motion sensor. Its robust IP65 rating ensures durability against weather and dust, making it ideal for various outdoor applications such as pathways, gardens, and driveways. This manual provides essential information for the safe installation, operation, and maintenance of your floodlight.

SAFETY INFORMATION

- Read all instructions carefully before installation and operation.
- Ensure the mounting surface is structurally sound and can support the weight of the floodlight.
- Do not attempt to disassemble or modify the product. This will void the warranty and may cause damage or injury.
- Keep the product away from flammable materials and extreme heat sources.
- The product contains Lithium Ion batteries. Do not expose batteries to fire or extreme temperatures. Dispose of batteries according to local regulations.
- Avoid looking directly into the LED light source when illuminated, as it may cause eye strain or damage.
- This product is IP65 rated for outdoor use, meaning it is protected against dust ingress and low-pressure water jets. However, do not submerge the unit in water.

PACKAGE CONTENTS

Please check the box for the following items:

- Luceco Solar Guardian PIR Floodlight Unit (10 Watts)
- Mounting Bracket
- Fixings (screws and wall plugs)
- User Manual (this document)

PRODUCT OVERVIEW

Familiarize yourself with the main components of your Luceco Solar Guardian PIR Floodlight:

Front view of the floodlight, showing the solar panel on top and the LED array and PIR sensor below. This image highlights the main components of the unit.

Side view of the floodlight, illustrating its compact design and the angle of the solar panel relative to the light unit. This perspective shows the overall profile of the device.

Angled view of the floodlight, showcasing the adjustable mounting bracket and the integrated PIR sensor. This image provides a clearer look at the mounting mechanism.

- **Solar Panel:** Located on top, converts sunlight into electricity to charge the internal battery.
- **LED Array:** The main light source, providing 1080 lumens of illumination.

- **PIR Motion Sensor:** Detects movement to activate the light.

- **Control Buttons:** Located on the unit, used to select operating modes and adjust settings.

- **Mounting Bracket:** Adjustable bracket for secure wall mounting.

SETUP AND INSTALLATION

Follow these steps for optimal performance and secure installation:

1. **Choose a Location:** Select a mounting location that receives direct sunlight for at least 6-8 hours daily to ensure the solar panel can fully charge the battery. The location should also be suitable for the desired light coverage and PIR detection area. Avoid areas under eaves, trees, or other obstructions that might block sunlight or trigger the sensor unnecessarily.

2. **Mark Drilling Points:** Hold the mounting bracket against the desired surface and mark the positions for drilling holes.

3. **Drill Holes:** Drill holes at the marked positions. A drill bit size of 6mm-7mm is generally suitable for the provided wall plugs, though some users have found an 8mm bit to be too large. Always test with a smaller bit first if unsure.

4. **Insert Wall Plugs:** Insert the provided wall plugs into the drilled holes.

5. **Secure Mounting Bracket:** Attach the mounting bracket to the wall using the provided screws. Ensure it is firmly secured.

6. **Attach Floodlight:** Slide the floodlight unit onto the mounting bracket and secure it with the retaining screws.

7. **Adjust Angle:** Adjust the angle of the solar panel to maximize sun exposure and the angle of the light head to direct illumination where needed. Ensure the PIR sensor is facing the area you wish to monitor.
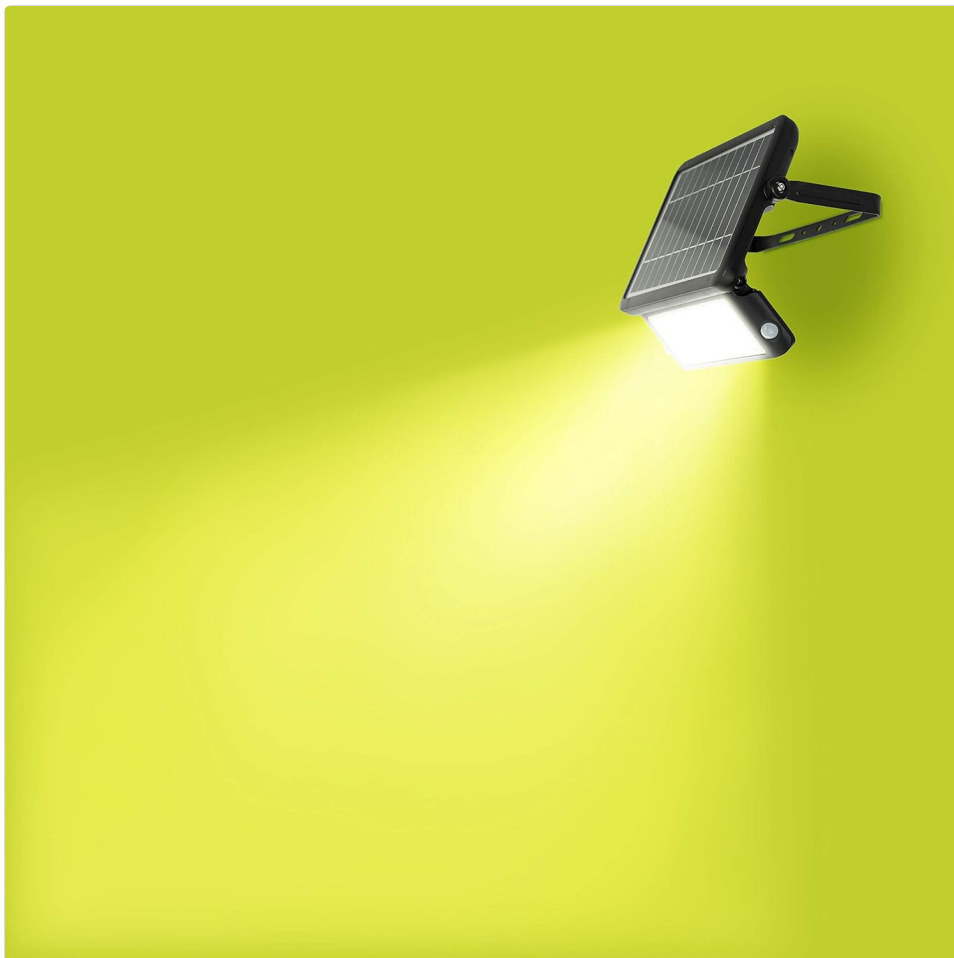
An example of the floodlight installed on the exterior wall of a house, demonstrating its typical mounting position and light projection at dusk.

OPERATING INSTRUCTIONS

Your Luceco Solar Guardian PIR Floodlight offers various operating modes to suit your needs. The control buttons are typically located on the unit itself. It is recommended to set the desired mode before final installation if the unit will be out of easy reach.

Initial Charge:

Before first use, allow the floodlight to charge in direct sunlight for at least 24-48 hours with the unit switched off. This ensures the internal Lithium Ion battery reaches full capacity for optimal performance.

Operating Modes:

The floodlight typically features multiple modes, selectable via the control buttons:

- **Mode 1 (On/Off):** A basic switch to turn the unit completely on or off. Useful for initial charging or when the light is not needed.

- **Mode 2 (Dusk-to-Dawn Sensor):** The light will automatically turn on at a lower brightness when it gets dark and turn off at dawn. This mode does not typically use the PIR sensor for activation, but rather ambient light levels. The duration of illumination in this mode depends on the battery charge and ambient light conditions.

- **Mode 3 (Security Mode - PIR Activated with Dim Light):** The light remains at a dim brightness after dark. When motion is detected by the PIR sensor, the light will switch to full brightness for a set duration (e.g., 20 seconds), then return to dim brightness.

- **Mode 4 (Motion Activated - Full Brightness):** The light remains off after dark. When motion is detected by the PIR sensor, the light will switch to full brightness for a set duration (e.g., 30 seconds), then turn off completely until motion is detected again. This mode is designed for maximum energy saving and security.

Refer to the specific markings on your unit for exact button functions and mode indicators.

PIR Sensor Adjustment:

Some models may allow adjustment of the PIR sensor's sensitivity and detection range. If available, use the dedicated adjustment dials or buttons to fine-tune the sensor to prevent false triggers (e.g., from swaying bushes) or to ensure it covers the desired area effectively.

An illustration depicting the wide beam angle of the floodlight, indicating its coverage area for effective illumination.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your floodlight:

- **Cleaning the Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean solar panel ensures maximum sunlight absorption and efficient battery charging.
- **Cleaning the PIR Sensor:** Ensure the PIR sensor lens is clean and free from obstructions to maintain accurate motion detection.
- **Battery Care:** The integrated Lithium Ion batteries are designed for long life. To maximize battery lifespan, ensure the unit receives adequate sunlight for charging, especially during winter months when daylight hours are shorter. Avoid prolonged periods of storage with a completely depleted battery.
- **Check Mountings:** Periodically check that the mounting screws and bracket are secure, especially after strong winds or adverse weather conditions.

Troubleshooting

If you encounter issues with your floodlight, try the following solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge; unit is off; sensor obstructed; incorrect mode.	Ensure solar panel receives direct sunlight for 6-8 hours daily. Check if the unit is switched on. Clear any obstructions from the solar panel or PIR sensor. Verify the selected operating mode.

Problem	Possible Cause	Solution
Light stays on constantly or flashes.	PIR sensor continuously triggered; faulty sensor.	Adjust PIR sensor sensitivity or angle to avoid constant triggers from moving objects (e.g., trees, pets). If the issue persists, contact customer support.
Light illumination time is too short.	Insufficient battery charge; low ambient temperature affecting battery performance.	Ensure adequate solar charging. In colder climates, battery performance may be reduced. Consider repositioning for better sun exposure.
PIR sensor is not detecting motion.	Sensor obstructed; incorrect angle; sensitivity too low.	Clear any obstructions from the sensor lens. Adjust the sensor angle and sensitivity settings.

SPECIFICATIONS

Model Number	LEXSF11B40-01
Power Source	Solar Powered
Wattage	10 Watts
Luminous Flux	1080 Lumens
Type of Bulb	LED
Voltage	3.7 Volts
Batteries	4 Lithium Ion batteries (included)
IP Rating	IP65 (Weather and Dust Proof)
Material	Aluminium
Colour	Black
Product Dimensions	8.46 x 11.81 x 1.38 cm
Item Weight	1.37 kg
Special Features	Waterproof, PIR Motion Sensor

WARRANTY AND SUPPORT

Luceco offers a **3-year warranty** on the Solar Guardian PIR Floodlight. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact the Luceco dedicated technical support team. You can typically find contact information on the Luceco official website or through your retailer's support channels.

Please retain your proof of purchase for warranty purposes.