Luceco LEXS22B40-01

Luceco LED Solar Guardian Wall Light User Manual

Model: LEXS22B40-01

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Luceco LED Solar Guardian Wall Light. Please read this manual thoroughly before installation and retain it for future reference.

Figure 1: Luceco LED Solar Guardian Wall Light, showing the solar panel at the top, the PIR motion sensor, and the LED light array at the bottom.

PRODUCT FEATURES

- **Solar Powered LED:** Utilizes a solar panel and high-performing LED chips for efficient lighting.

- **PIR / Photocell Sensor:** Activates illumination only when motion is detected, conserving energy.

- **Security Functionality:** Acts as a security light for various outdoor areas.

- **Easy Installation:** No wiring required; simply mount onto an outside wall.

- **Durable Design:** IP44 rated for outdoor use.

PACKAGE CONTENTS

Please ensure all components are present before beginning installation:

- 1 x Luceco LED Solar Guardian Wall Light (Model LEXS22B40-01)

- Mounting Screws and Wall Plugs (typically included)

- User Manual (this document)

Note: The light includes a pre-installed Lithium Ion battery.

SETUP AND INSTALLATION

1. Choosing a Location

Select a location that receives direct sunlight for at least 6-8 hours daily to ensure optimal charging of the solar panel. Avoid areas under eaves, trees, or other obstructions that may block sunlight or trigger the motion sensor unnecessarily.

Figure 2: Example of the light installed to illuminate an outdoor shed, demonstrating its effectiveness in a practical setting.

2. Mounting the Light

1. Mark the desired mounting points on the wall using the light's mounting holes as a template.

2. Drill holes at the marked positions. Insert wall plugs if mounting into masonry or concrete.

3. Align the light with the drilled holes and secure it using the provided screws. Ensure the light is firmly attached.

Figure 3: Product dimensions, showing a width of 6.9 cm and a height of 14.5 cm, useful for planning installation space.

Figure 4: Top-down view of the light, highlighting the integrated solar panel designed for efficient energy absorption.

OPERATING INSTRUCTIONS

The Luceco LED Solar Guardian Wall Light is designed for automatic operation. It features a photocell sensor that detects ambient light levels and a PIR motion sensor for activation.

- During daylight hours, the solar panel charges the internal battery. The light will not illuminate.
- At dusk, the photocell sensor will detect low light conditions, and the unit will enter standby mode.
- When motion is detected within the sensor's range, the LED light will illuminate at full brightness.
- After a period of no motion, the light will automatically turn off or dim, depending on the specific model's pre-set mode.

No manual switching is required for daily operation.

MAINTENANCE

To ensure optimal performance and longevity of your solar wall light, follow these simple maintenance guidelines:

- **Cleaning the Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and efficient charging.
- **Cleaning the Light Sensor/PIR:** Keep the motion sensor and light sensor clear of obstructions and dirt to ensure proper functionality.

- **Battery:** The integrated Lithium Ion battery is designed for long-term use. If the light's performance significantly degrades over time, it may indicate the battery is reaching the end of its lifespan. Battery replacement should only be performed by qualified personnel if the design allows.
- **General Inspection:** Regularly check the mounting screws to ensure the light remains securely fastened to the wall.

Do not use abrasive cleaners or solvents on any part of the light.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient sunlight for charging. Solar panel is dirty. Light sensor is obstructed or faulty. Battery charge is too low.	Relocate the light to an area with more direct sunlight. Clean the solar panel. Ensure the light sensor is clear. Allow several days of full sunlight for charging.
Light stays on during the day.	Light sensor is obstructed or covered. Light is installed in a shaded area.	Clear any obstructions from the light sensor. Relocate the light to an area with more ambient light during the day.
Light flickers or is dim.	Low battery charge. Extreme cold weather affecting battery performance.	Ensure adequate charging time in direct sunlight. Performance may be reduced in very low temperatures.
Motion sensor not detecting.	Sensor is obstructed. Object is outside detection range/angle.	Clear any obstructions from the PIR sensor. Adjust the light's position or consider its detection range.

SPECIFICATIONS

Attribute	Value
Brand	Luceco
Model Number	LEXS22B40-01
Product Dimensions	14.45 x 9.6 x 7.9 cm
Item Weight	200 g
Colour	Black
Material	Polycarbonate (PC)
Power Source	Solar Powered
Battery Type	1 Lithium Ion battery (included)
Voltage	3.7 Volts

Attribute	Value
Wattage	1.5 Watts
Luminous Flux	150 lumen
Area Lighting Classification	IP44
Special Features	Motion Sensor (PIR)
Light Direction	LED
Colour Rendering Index (CRI)	80
EU Energy Efficiency Label	A++

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Luceco website or contact their customer service department. Retain your proof of purchase for any warranty claims.

Luceco Contact Information:

- Visit the Luceco Store on Amazon for product information and support.

- Refer to the packaging for specific regional contact details or visit the manufacturer's official website.
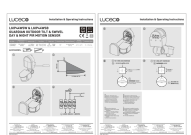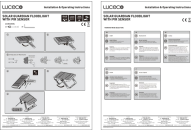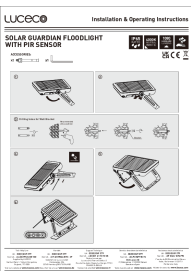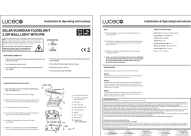
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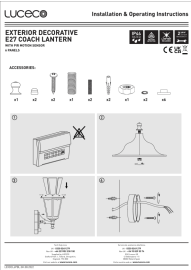
Light Bulb Recycling: For information on recycling this product and other types of lamps, please consult local recycling guidelines or visit relevant environmental agency websites.

Light Bulb Breakage and Clean Up: In case of breakage, follow local guidelines for safe cleanup and disposal of broken or damaged lamps. Avoid direct contact with broken glass and dispose of materials responsibly.

Related Documents - LEXS22B40-01

Solar Guardian 1.5W Wall Light with PIR Sensor: Installation and Operating Guide
Comprehensive guide for installing and operating the Solar Guardian 1.5W Wall Light with PIR Sensor. Includes features, installation steps, working modes, and warranty information.

[Luceco Exterior Decorative E27 Coach Lantern with PIR Motion Sensor - Installation & Operating Instructions](#)
Comprehensive installation and operating instructions for the Luceco Exterior Decorative E27 Coach Lantern, featuring a PIR motion sensor. Includes accessory list, step-by-step guidance, and technical support information.

[Luceco Guardian Outdoor PIR Motion Sensor Installation and Operating Instructions](#)
Detailed installation and operating instructions for the Luceco LGIP44WSW and LGIP44WSB Guardian Outdoor Tilt & Swivel Day & Night PIR Motion Sensor, including specifications, wiring, and mode explanations.

[Luceco Solar Guardian Floodlight with PIR Sensor: Installation and Operating Guide](#)
Detailed installation and operating instructions for the Luceco Solar Guardian Floodlight with PIR sensor, covering setup, features, and working modes. Includes contact information for Luceco.

[LUCECO Solar Guardian Floodlight with PIR Sensor: Installation & Operating Guide](#)
Comprehensive guide for installing and operating the LUCECO Solar Guardian Floodlight with PIR Sensor. Features include solar power, motion detection, IP65 rating, and multiple working modes.

[Luceco Solar Guardian Floodlight 3.2W Wall Light with PIR: Installation & Operating Guide](#)
Comprehensive guide for installing and operating the Luceco Solar Guardian Floodlight. Features include 3.2W LED, PIR motion sensor, IP44 rating, and multiple working modes. Learn about specifications, installation, and warranty.