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Lightdot LFL-06M-14

Lightdot 50W LED Flood Light (Model LFL-06M-14) Instruction Manual

Outdoor LED Flood Light with Knuckle Mount



1. INTRODUCTION

Thank you for choosing the Lightdot 50W LED Flood Light. This manual provides essential information for the safe installation, operation, and maintenance of your new flood light. Please read these instructions thoroughly before installation and retain them for future reference.



Figure 1.1: Lightdot 50W LED Flood Light with Knuckle Mount. This image displays the main product unit, highlighting its compact design and integrated LED panel.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, observe the following safety precautions:

- **Electrical Safety:** Installation must be performed by a qualified electrician or trained personnel in accordance with national and local electrical codes. Ensure power is disconnected at the circuit breaker before installation or servicing.
- **Grounding:** The fixture must be properly grounded to prevent electrical shock.
- **Voltage:** Verify that the supply voltage matches the fixture's requirements (120V AC).
- **Mounting:** Mount the fixture securely to a stable surface capable of supporting its weight.
- **Operating Temperature:** Do not operate the fixture in environments exceeding its specified operating temperature range.
- **Damage:** Do not use the fixture if any part is damaged. Contact customer support for replacement parts.
- **Modification:** Do not attempt to modify the fixture. Unauthorized modifications may void the warranty and pose safety risks.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x Lightdot 50W LED Flood Light (Model LFL-06M-14)
- 1 x Knuckle Mount (pre-attached or separate)
- Instruction Manual (this document)

4. PRODUCT FEATURES

The Lightdot 50W LED Flood Light is designed for efficient and reliable outdoor illumination, offering the following key features:

- **High Efficiency:** 50W LED provides 5500 lumens of bright, 5000K daylight white light, replacing higher wattage traditional bulbs.
- **Dusk-to-Dawn Photocell:** Integrated sensor automatically turns the light on at dusk and off at dawn, optimizing energy use.
- **Durable Construction:** Crafted from corrosion-resistant die-cast aluminum with a commercial-grade powder-coated finish, ensuring longevity.
- **IP65 Waterproof:** Designed for outdoor use, providing protection against dust and water jets.
- **Adjustable Mounting:** Features an angle-adjustable knuckle mount for flexible positioning on walls, eaves, or poles.
- **Wide Beam Angle:** 120° beam angle ensures broad illumination coverage.



50W
Wattage

5000K
Color temp

IP 65
Waterproof

5500Lm
Luminous

Figure 4.1: Example installation of Lightdot LED Flood Lights on a building exterior, demonstrating their application for illuminating outdoor spaces. Key specifications like 50W wattage, 5000K color temperature, IP65 waterproof rating, and 5500LM luminous output are highlighted.



Figure 4.2: Visual representation of the automatic Dusk to Dawn functionality. The image shows the light activating at night and deactivating during the day, controlled by its integrated photocell sensor.

5. SPECIFICATIONS

Attribute	Specification
Brand	Lightdot
Model Name	LFL-06M-14
Wattage	50 Watts
Brightness	5500 Lumens
Color Temperature	5000 Kelvin (Daylight White)
Voltage	120 Volts (AC)

Attribute	Specification
Material	Aluminum
Finish Type	Powder Coated
Water Resistance Level	IP65 Waterproof
Mounting Type	Wall Mount, Knuckle Mount
Light Source Type	LED
Average Life	30,000 Hours
Product Dimensions	8" L x 5" W x 8" H
Special Features	Commercial Grade, Corded, Energy Efficient, Waterproof, Dusk to Dawn Photocell



Figure 5.1: Dimensional diagram of the Lightdot 50W LED Flood Light, showing measurements in both inches and millimeters for length, width, and height.

6. SETUP AND INSTALLATION

This section outlines the general steps for installing your Lightdot LED Flood Light. Professional installation is recommended.

6.1 Pre-Installation

1. **Power Disconnection:** Turn off the power at the circuit breaker before beginning any installation work.
2. **Location Selection:** Choose a mounting location that is structurally sound and can support the fixture's weight. Ensure the location allows for optimal light distribution and access for maintenance.
3. **Tools Required:** Gather necessary tools, which may include a screwdriver, wire strippers, drill, mounting hardware (not always included), and safety glasses.

6.2 Mounting the Fixture

The Lightdot flood light comes with an adjustable knuckle mount, allowing for versatile installation.

1. **Knuckle Mount Assembly:** If the knuckle mount is separate, securely attach it to the fixture body.
2. **Secure Mounting:** Attach the knuckle mount to the desired surface (wall, eave, pole) using appropriate mounting hardware. Ensure it is firmly secured to prevent movement.
3. **Angle Adjustment:** Adjust the light head to the desired angle. The knuckle mount typically allows for 180° rotation. Tighten the adjustment screw to lock the position.

Wall Mount

Can be used not only as an Flood light but also as a wall pack.



Figure 6.1: Detailed view of the wall mount and knuckle mount options. The wall mount allows the fixture to function as a wall pack, while the knuckle mount can be directly screwed into a compatible junction box or mounting surface, offering 180° adjustability.

6.3 Electrical Connection

Follow these steps for electrical wiring:

- 1. Identify Wires:** Typically, the fixture will have three wires: black (live), white (neutral), and green (ground).
- 2. Connect Wires:** Connect the fixture's black wire to the supply's black wire, the fixture's white wire to the supply's white wire, and the fixture's green wire to the supply's green or bare copper ground wire. Use appropriate wire connectors.
- 3. Secure Connections:** Ensure all connections are tight and properly insulated.
- 4. Restore Power:** Once all connections are secure and the fixture is mounted, restore power at the circuit breaker.

7. OPERATING INSTRUCTIONS

The Lightdot 50W LED Flood Light features an integrated photocell for automatic operation.

- **Automatic Dusk-to-Dawn:** The photocell sensor detects ambient light levels. When natural light diminishes at dusk, the light will automatically turn on. When sufficient natural light returns at dawn, the light will automatically turn off.
- **Manual Override (if applicable):** This model primarily operates on a dusk-to-dawn cycle. If manual control is desired, it must be integrated with an external switch (not included) on the power supply circuit.
- **Photocell Placement:** Ensure the photocell sensor is not obstructed by objects or exposed to direct artificial light sources, as this can interfere with its proper function.

8. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your flood light.

- **Cleaning:** Periodically clean the lens and housing with a soft, damp cloth to remove dirt, dust, or debris that may accumulate and reduce light output or interfere with the photocell. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the fixture for any signs of physical damage, loose wiring, or corrosion. Ensure mounting hardware remains secure.
- **Power Disconnection:** Always disconnect power to the fixture at the circuit breaker before performing any cleaning or inspection.

9. TROUBLESHOOTING

If you encounter issues with your Lightdot LED Flood Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply Faulty wiring Photocell malfunction (too much ambient light)	Check circuit breaker and power connections. Verify wiring connections are secure. Ensure photocell is not obstructed or exposed to other light sources. Test at night or cover photocell.
Light stays on during the day	Photocell obstructed or faulty External light interfering with photocell	Clear any obstructions from the photocell. Relocate the fixture if external light sources (e.g., streetlights) are affecting it.
Light flickers	Loose wiring connection Voltage fluctuations Fixture damage	Check and secure all electrical connections. Consult an electrician to check power supply stability. If flickering persists, contact customer support.
Reduced light output	Dirty lens Aging LED components	Clean the lens with a soft, damp cloth. LEDs have a long lifespan, but gradual degradation can occur over many years.

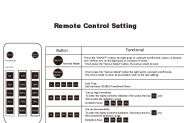
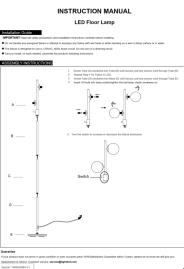
If troubleshooting steps do not resolve the issue, please contact Lightdot customer support.

10. WARRANTY AND SUPPORT

The Lightdot 50W LED Flood Light (Model LFL-06M-14) is covered by a **5-YEAR WARRANTY** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your product, please contact Lightdot customer support through the retailer where the product was purchased or visit the official Lightdot website for contact information. Please have your purchase receipt and product model number (LFL-06M-14) available when contacting support.

Related Documents - LFL-06M-14

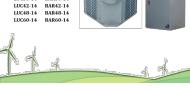
	<p>Lightdot Remote Control Settings for LED High Bay Lights</p> <p>Guide to operating the Lightdot LED High Bay Light remote control, covering normal mode, sensor mode, hold time settings, and sensitivity adjustments for detection range.</p>
	<p>Lightdot LED Floor Lamp Instruction Manual and Installation Guide</p> <p>Comprehensive instruction manual for the Lightdot LED Floor Lamp, covering installation, safety precautions, and assembly steps for optimal use and enjoyment.</p>
	<p>COBOT Remote Controlled Robot Instructions and Operation Guide</p> <p>Official instructions and operating guide for the COBOT remote-controlled robot, featuring Coca-Cola branding. Learn how to load batteries, operate the robot, and handle it with care.</p>
	<p>YardLine Berkdale 14' x 8' Shed Assembly Instructions</p> <p>Comprehensive assembly manual for the YardLine Berkdale 14' x 8' shed (Model 16769). Includes parts list, tools required, step-by-step instructions, foundation options, and warranty information.</p>
	<p>BAS-IP AV-06M Entrance Panel User Manual</p> <p>User manual for the BAS-IP AV-06M entrance panel, detailing its features, specifications, installation, and warranty information. This sleek and compact single-button panel supports video calling, door access via card, QR code, mobile app, and remote control.</p>



14 SEER AIR HANDLER SYSTEM

TECHNICAL MANUAL

For LUC BAR LUCO BARO LUCOZ BAROZ
LUC014 BAR014 LUC014 BAR014
LUC024 BAR024 LUC024 BAR024
LUC034 BAR034 LUC034 BAR034
LUC0414 BAR0414 LUC0414 BAR0414
LUC0514 BAR0514 LUC0514 BAR0514



[ComfortStar 14 SEER Air Handler System Technical Manual](#)

Comprehensive technical manual for ComfortStar 14 SEER Air Handler Systems, covering specifications, installation, operation, and troubleshooting for indoor and outdoor units. Includes model details for LUC and BAR series.