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› Maclean MCE530 NW LED Floodlight Instruction Manual

## Maclean MCE530 NW

# Maclean MCE530 NW LED Floodlight Instruction Manual

Model: MCE530 NW | Brand: Maclean

## 1. INTRODUCTION

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Thank you for choosing the Maclean MCE530 NW LED Floodlight. This manual provides essential information for the safe installation, operation, and maintenance of your new floodlight. Please read these instructions carefully before use and retain them for future reference.

## 2. SAFETY INFORMATION

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- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local wiring regulations. Ensure the power supply is disconnected before installation or maintenance.
- **Voltage:** This floodlight operates on 220-240V AC, 50/60Hz. Do not connect to any other voltage.
- **Grounding:** The floodlight must be properly grounded to prevent electric shock.
- **IP65 Rating:** This product is rated IP65, meaning it is protected against dust ingress and low-pressure water jets from any direction. It is suitable for outdoor use but should not be submerged in water.
- **Heat:** The LED floodlight may become hot during operation. Avoid direct contact with the housing when in use.
- **Light Source:** Do not stare directly into the LED light source when it is illuminated, as this may cause eye damage.
- **Modifications:** Do not attempt to modify or repair the floodlight. Any unauthorized modifications will void the warranty and may pose a safety risk.

## 3. PACKAGE CONTENTS

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Please check the package contents to ensure all items are present and undamaged:

- Maclean MCE530 NW LED Floodlight (1 unit)

- Mounting bracket (pre-attached)
- Instruction Manual



Figure 1: Maclean MCE530 NW LED Floodlight in its retail packaging.

## 4. PRODUCT OVERVIEW

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The Maclean MCE530 NW is a slim, energy-efficient LED floodlight designed for both indoor and outdoor applications. It features a robust aluminum housing and a wide beam angle for effective illumination.

### Key Features:

- High efficiency and energy saving LED technology.
- 30W power consumption with 2400 lumens luminous flux.
- Neutral white light (4000K) for clear illumination.
- IP65 protection rating for outdoor and indoor use.
- Durable and robust housing.
- Wide 120° beam angle.
- Long lifespan of up to 50,000 hours.



Figure 2: Front view of the Maclean MCE530 NW LED Floodlight.



Figure 3: Back view of the Maclean MCE530 NW LED Floodlight with product label.



Figure 4: Side angle view of the Maclean MCE530 NW LED Floodlight with adjustable mounting bracket.

## 5. INSTALLATION INSTRUCTIONS

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Follow these steps for safe and proper installation of your LED floodlight. Always ensure power is disconnected before beginning installation.

### 5.1 Mounting Location

- Choose a suitable mounting surface that can support the weight of the floodlight.
- Ensure the location allows for the desired light coverage and is free from obstructions.

- Consider the floodlight's 120° beam angle when positioning.

## 5.2 Mounting the Floodlight

1. **Prepare the Mounting Surface:** Mark the drilling points for the mounting bracket on the desired surface.
2. **Drill Holes:** Drill appropriate holes for your mounting screws (not included) at the marked points.
3. **Secure the Bracket:** Attach the floodlight's mounting bracket securely to the surface using suitable screws and anchors. The bracket allows for angle adjustment.
4. **Adjust Angle:** Loosen the bolts on the side of the bracket to adjust the floodlight to the desired angle, then tighten them firmly.



Figure 5: Side view illustrating the adjustable mounting bracket.

## 5.3 Electrical Connection

The floodlight comes with a 12 cm cable with cable ends, suitable for connection to a terminal block (not included). This connection must be made inside a suitable, weather-protected junction box if installed outdoors.

1. **Disconnect Power:** Ensure the main power supply to the installation area is switched off at the circuit breaker.
2. **Identify Wires:** The floodlight cable typically contains three wires: Live (Brown), Neutral (Blue), and Earth (Green/Yellow).
3. **Connect Wires:** Connect the floodlight's wires to the corresponding wires of your main power supply using a suitable, IP-rated terminal block or connector. Ensure all connections are secure.
4. **Secure Connections:** Place the terminal block and connections inside an appropriate IP-rated junction box to maintain the IP integrity of the installation.
5. **Restore Power:** Once all connections are secure and the installation is complete, restore power to the circuit.

## 6. OPERATING INSTRUCTIONS

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The Maclean MCE530 NW LED Floodlight is designed for simple operation.

1. **Power On:** After successful installation and connection to the power supply, switch on the power at the main switch or circuit breaker.
2. **Illumination:** The floodlight will illuminate immediately.
3. **Power Off:** To turn off the floodlight, switch off the power at the main switch or circuit breaker.

This floodlight does not feature dimming capabilities or integrated sensors. External switches or sensors (e.g., motion sensors, dusk-to-dawn sensors) can be integrated into the circuit by a qualified electrician if desired.

## 7. MAINTENANCE

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The Maclean MCE530 NW LED Floodlight requires minimal maintenance.

- **Cleaning:** Periodically clean the floodlight's surface and lens with a soft, damp cloth to remove dust and dirt. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the floodlight and its wiring for any signs of damage, wear, or loose connections. If any damage is found, disconnect power immediately and have it inspected by a qualified

technician.

- **LED Lifespan:** The integrated LED light source has a long lifespan of approximately 50,000 hours and is not user-replaceable.

## 8. TROUBLESHOOTING

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If you encounter issues with your floodlight, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Floodlight does not turn on.	No power supply. Loose wiring connection. Faulty switch/circuit breaker.	Check if the power supply is on. Inspect wiring connections (ensure power is off first). Check the circuit breaker and switch.
Light output is dim or flickers.	Unstable power supply. Loose connection. Extreme environmental conditions.	Ensure stable power supply. Check wiring connections (power off first). Ensure operating within specified temperature range (-20°C to +35°C).
Water ingress inside the floodlight.	Improper installation (e.g., unsealed junction box). Damage to housing/seal.	Ensure all connections are properly sealed in an IP-rated junction box. Inspect the floodlight for physical damage. If damaged, replace the unit.

If the problem persists after attempting these solutions, please contact customer support.

## 9. SPECIFICATIONS

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Detailed technical specifications for the Maclean MCE530 NW LED Floodlight:

Feature	Specification
Model Number	MCE530 NW
Power	30 W
Luminous Flux	2400 lm
Color Temperature	4000 K (Neutral White)
Beam Angle	120°
Input Voltage	220-240 V AC
Frequency	50/60 Hz
Protection Class	IP65
Lifespan	Up to 50,000 hours
On/Off Cycles	≥ 20,000
Material	Aluminum
Dimensions (L x W x H)	14 x 3 x 12 cm
Weight	110 grams
Cable Length	12 cm
Energy Efficiency Class	F



Figure 6: Dimensions diagram of the floodlight.



Figure 7: Energy efficiency label. For more details, visit [eprel.ec.europa.eu/qr/670255](http://eprel.ec.europa.eu/qr/670255)

## 10. WARRANTY AND SUPPORT

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Macleon products are designed for reliability and performance. For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for warranty claims.