

Maclean MCE516

Maclean MCE516 LED Wall Light User Manual

Model: MCE516 | Brand: Maclean

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Maclean MCE516 LED Wall Light. This product is designed for both indoor and outdoor use, featuring integrated motion and twilight sensors for efficient and automatic illumination.

Key Features:

- **High-Performance Illumination:** 10W LED provides 800 lumens of 4000K neutral white light.
- **Advanced Sensor Technology:** Integrated PIR motion sensor with up to 9 meters detection range and 140° angle.
- **Automatic Twilight Detection:** Built-in twilight sensor activates the lamp automatically at dusk.
- **Adjustable Settings:** Customizable illumination duration from 10 seconds to 5 minutes.
- **Wide Coverage:** 120° viewing angle ensures generous lighting for various areas.
- **Weather Resistant:** IP65 rating provides robust protection against rain and humidity for outdoor use.



Figure 1: Maclean MCE516 LED Wall Light highlighting 800 lumens, 10 watts, and 25,000 hours lifespan.

This image displays the Maclean MCE516 LED Wall Light installed on an exterior wall, with overlays indicating its key performance metrics: 800 lumens, 10 watts, and a 25,000-hour lifespan.



Figure 2: Maclean MCE516 LED Wall Light demonstrating 4000K Neutral White light.

This image shows the Maclean MCE516 LED Wall Light in an outdoor setting, emphasizing its 4000K neutral white light output, which provides a balanced and natural illumination.

2. SAFETY INSTRUCTIONS

Please read these safety instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Safety:** Installation should be performed by a qualified electrician or a person with sufficient electrical knowledge. Always disconnect power at the main circuit breaker before installation or maintenance.
- **Voltage:** Ensure the supply voltage (220-240V) matches the product's requirements.
- **Mounting:** Mount the lamp securely on a stable surface.
- **IP65 Rating:** The lamp is protected against dust ingress and low-pressure water jets from any direction. While suitable for outdoor use, avoid submerging the product in water or exposing it to high-pressure water.
- **Heat:** Do not cover the lamp with insulating material. Ensure adequate ventilation.
- **Disposal:** Dispose of the product and its components responsibly according to local regulations.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged:

- Maclean MCE516 LED Wall Light (with integrated LED lens)
- Mounting accessories (screws, wall plugs) - *(Assumed, as typical for wall lights)*
- Instruction Manual



Figure 3: Maclean MCE516 LED Wall Light product packaging.

This image displays the retail box for the Maclean MCE516 LED Lamp, showing the product name, model number MCE516W, 10W power, 800lm brightness, 4000K neutral white color temperature, and energy efficiency class F.

4. PRODUCT OVERVIEW

The Maclean MCE516 LED Wall Light consists of a main body housing the motion sensor and control dials, and an adjustable LED lamp head.



Figure 4: Angled view of the Maclean MCE516 LED Wall Light.

This image shows the Maclean MCE516 LED Wall Light from an angled perspective, highlighting its white casing and the motion sensor located at the bottom of the base unit.

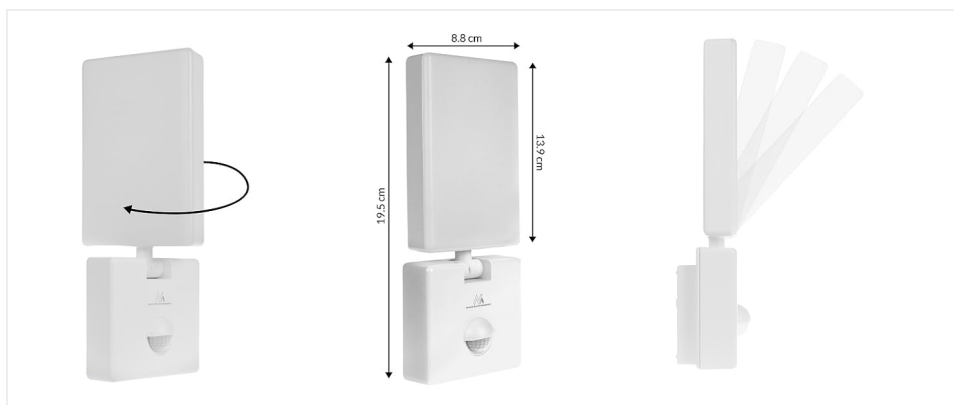


Figure 5: Dimensions and adjustability of the Maclean MCE516 LED Wall Light.

This composite image illustrates the dimensions of the Maclean MCE516 LED Wall Light (19.5 cm height, 8.8 cm width, 13.9 cm depth) and demonstrates the adjustable rotation of the lamp head, allowing for flexible light direction.

5. SETUP AND INSTALLATION

Before beginning installation, ensure the power supply is disconnected at the main circuit breaker.

5.1 Mounting the Lamp

1. Choose a suitable mounting location on a wall, ensuring it is within reach of the electrical wiring.
2. Mark the drilling points on the wall using the lamp's base as a template.
3. Drill holes and insert appropriate wall plugs (if necessary).
4. Secure the lamp base to the wall using screws.

5.2 Electrical Connection

1. Connect the live (L) and neutral (N) wires from your electrical supply to the corresponding terminals inside the lamp's base. This lamp does not require an earth connection.
2. Ensure all connections are secure and properly insulated.
3. Close the wiring compartment securely.

5.3 Adjusting the Lamp Head

The LED lamp head can be adjusted to direct light as needed. Gently pivot the lamp head to the desired angle. Refer to Figure 5 for visual guidance on adjustability.

6. OPERATING INSTRUCTIONS

The Maclean MCE516 features a motion sensor and a twilight sensor for automatic operation.

6.1 Sensor Controls

The control dials for TIME and LUX are located on the underside of the sensor unit. (Refer to Figure 6).



Figure 6: Close-up of the TIME and LUX adjustment dials.

This image provides a detailed view of the two adjustment dials on the Maclean MCE516 LED Wall Light: 'TIME' for setting illumination duration and 'LUX' for adjusting ambient light sensitivity.

- **TIME Dial:** Adjusts the duration the light remains on after motion is detected.
 - Rotate towards '-' for shorter duration (minimum 10 seconds).
 - Rotate towards '+' for longer duration (maximum 5 minutes).

- **LUX Dial:** Adjusts the ambient light level at which the sensor becomes active.
 - Rotate towards 'moon' symbol for activation only in very low light conditions (dusk/night).
 - Rotate towards 'sun' symbol for activation in brighter ambient light conditions.

6.2 Motion Sensor Operation

The Passive Infrared (PIR) motion sensor detects movement within its detection zone (up to 9 meters, 140° angle). When motion is detected and the ambient light level is below the set LUX threshold, the lamp will illuminate for the set TIME duration.



Figure 7: Maclean MCE516 LED Wall Light demonstrating wide illumination angle.

This image shows the Maclean MCE516 LED Wall Light installed on an exterior wall, illustrating its 120-degree illumination angle for broad coverage.

7. MAINTENANCE

The Maclean MCE516 LED Wall Light requires minimal maintenance.

- **Cleaning:** Periodically clean the lamp's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor lens is clear of dirt and obstructions for optimal performance.
- **LEDs:** The integrated LED light source is designed for long life (up to 25,000 hours) and is not user-replaceable.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lamp does not turn on.	No power supply. LUX setting too high (daylight). No motion detected. Faulty wiring.	Check circuit breaker and electrical connections. Adjust LUX dial towards 'moon' symbol. Test motion detection by walking into the sensor's range. Verify wiring connections.
Lamp stays on continuously.	Continuous motion in detection zone. TIME setting too long. LUX setting too low (always dark). Sensor malfunction.	Ensure no constant movement or heat sources are triggering the sensor. Adjust TIME dial towards '-'. Adjust LUX dial towards 'sun' symbol. Contact support if problem persists after checking settings.
Lamp turns on during daylight.	LUX setting too high.	Adjust LUX dial towards 'moon' symbol to activate only in darker conditions.
Motion sensor range is poor.	Obstructions in detection path. Incorrect mounting height/angle. Environmental factors (extreme temperature).	Clear any objects blocking the sensor's view. Ensure optimal mounting height (typically 1.8-2.5m). Sensor performance can be affected by extreme heat or cold.

9. SPECIFICATIONS

Feature	Detail
Brand	Maclean
Model Number	MCE516 W
Dimensions (L x W x H)	8.8 x 13.9 x 19.5 cm
Weight	340 grams
Material	Plastic
Color	White
Power Consumption	10 W
Luminous Flux	800 lumens
Color Temperature	4000 K (Neutral White)
Voltage	220-240 V
IP Rating	IP65 (Dust tight, protected against water jets)
Motion Sensor Range	Up to 9 meters

Feature	Detail
Motion Sensor Angle	140°
Illumination Duration Adjustment	10 seconds to 5 minutes
Light Direction	Adjustable LED head
Energy Efficiency Class	F
Specific Uses	Residential, Commercial, Industrial
Country of Origin	China

For detailed energy information, please refer to the EPREL database: <https://eprel.ec.europa.eu/qr/1891126>

10. WARRANTY AND SUPPORT

Macleane products are designed for reliability and performance. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer.

Customer Support:

For technical assistance or inquiries, please contact Maclean customer support:

- **Manufacturer:** Maclean (Centrumelektroniki.eu Sp. z o.o.)
- **Email:** import@centrumelektroniki.pl
- **Phone:** +48 32 284 7323
- **Address:** Dział zakupów, Wojciecha Korfańskiego 7, 42-600 Tarnowskie Góry śląskie, PL
- **Macleane Store:** [Visit Maclean Store on Amazon](#)