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Oraymin QC-C280S-MR

Oraymin LED Ceiling Light with Motion Sensor

Model: QC-C280S-MR

1. Introduction

This manual provides instructions for the safe installation, operation, and maintenance of your Oraymin LED Ceiling Light with Motion Sensor. Please read this manual thoroughly before installation and retain it for future reference.

Safety Information

- Ensure the power supply is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician to prevent electric shock or fire.
- Do not modify the product in any way.
- This product is designed for indoor use in appropriate environments (IP54 rated for damp locations).
- Keep out of reach of children.

2. Product Features

- Integrated motion sensor (microwave and twilight sensor).
- Adjustable detection range, hold time, and light sensitivity.
- IP54 waterproof rating, suitable for damp locations like bathrooms and garages.
- Energy-efficient 24W LED, providing 2600 lumens.
- 4000K neutral white light.
- Flicker-free illumination for eye protection.
- Long lifespan of up to 30,000 hours.

Image: The Oraymin LED Ceiling Light shown installed in various indoor environments including a bathroom, garage, entrance, and hallway, demonstrating its versatility.

3. Specifications

Parameter	Value
Brand	Oraymin
Model Number	QC-C280S-MR
Power Consumption	24 W
Luminous Flux	2600 lm
Color Temperature	4000 K (Neutral White)
IP Rating	IP54
Dimensions (L x W x H)	27.8 x 27.8 x 4.9 cm (10.94 x 10.94 x 1.92 inches)
Weight	1.06 kg

Material	Polycarbonate (PC)
Beam Angle	160°
Average Lifespan	30,000 hours
Certifications	CE, RoHS
Energy Efficiency Class	E (New EU rating) / A+ (Old EU rating)
EPREL Link	https://eprel.ec.europa.eu/qr/1504478

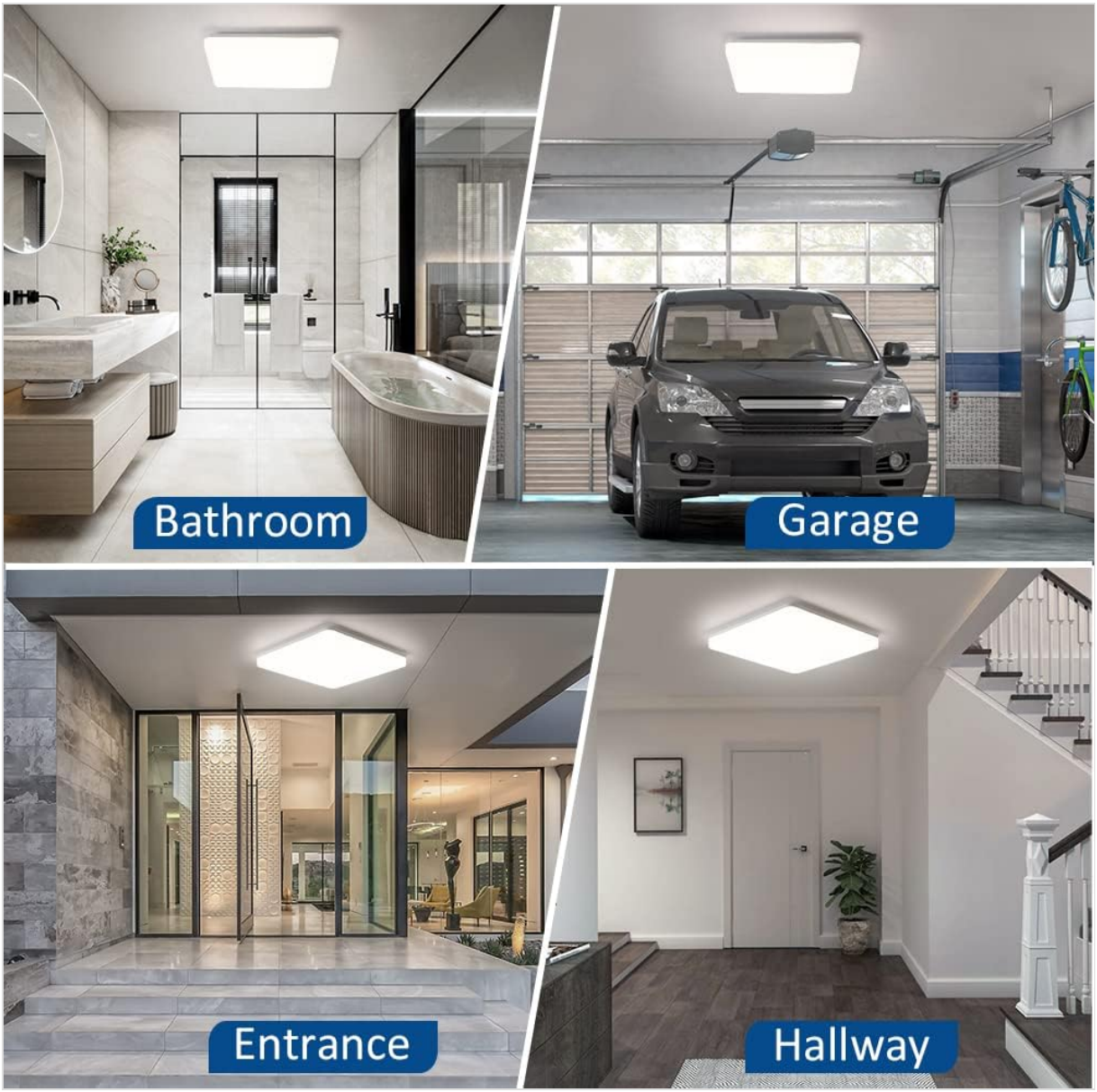

Image: Overview of the Oraymin LED Ceiling Light showing its dimensions (27.8cm x 4.9cm), 24W power, 2400lm brightness, IP54 rating, integrated sensor, CE and RoHS certifications, and flicker-free feature.

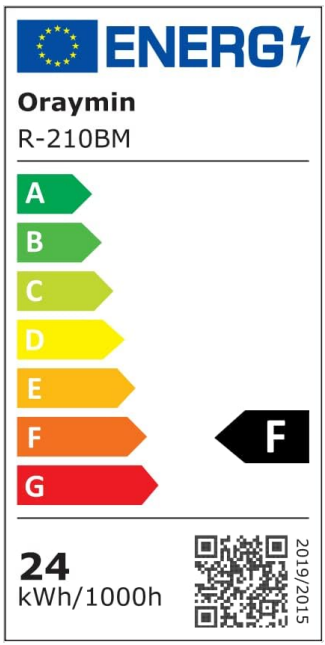

Image: EU Energy Label for the Oraymin LED Ceiling Light, model R-210BM, indicating an energy efficiency class of E and energy consumption of 24 kWh/1000h.

4. Setup and Installation

The product comes with an installation package. It is recommended to use the provided template for drilling holes. Always ensure the power is off before beginning installation.

Installation Steps:

1. **Prepare the Mounting Surface:** Choose a suitable location on the ceiling. Ensure the surface is clean and dry.
2. **Mark Drilling Points:** Use the provided template to mark the drilling points on the ceiling.
3. **Drill Holes:** Drill holes at the marked points and insert the wall plugs (dowels).
4. **Secure Mounting Bracket:** Attach the mounting bracket to the ceiling using the screws.
5. **Connect Wiring:** Connect the main power supply wires to the terminal block of the ceiling light. Ensure correct polarity (Live, Neutral, Earth).
6. **Attach Light Fixture:** Secure the LED ceiling light fixture to the mounting bracket.
7. **Test Functionality:** Restore power and test the light's operation and sensor settings.

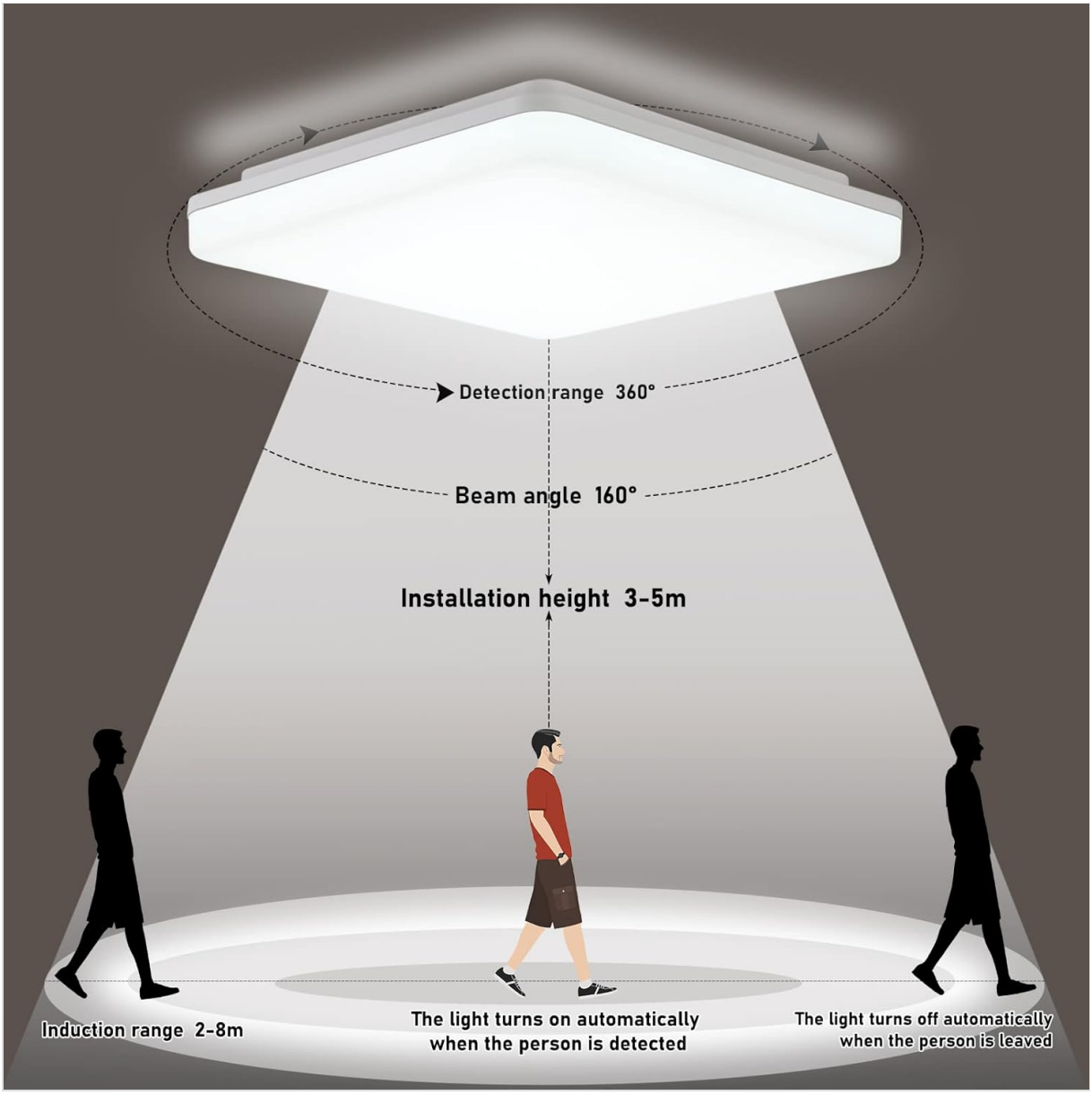

Image: Diagram illustrating the 360° detection range and 160° beam angle of the ceiling light. It also shows an optimal installation height of 3-5 meters and an induction range of 2-8 meters, with the light turning on when a person is detected and off when they leave.

5. Operating Instructions

The Oraymin LED Ceiling Light features an advanced motion sensor with adjustable settings for optimal performance.

Motion Sensor Settings:

The motion sensor can be adjusted for sensing range, hold time, and daylight sensitivity. These settings are typically configured via DIP switches or similar controls on the fixture itself (refer to the physical product for exact control locations).

- **Sensing Range:** Adjusts the detection distance. Options typically include 25% (2m), 50% (4m), 75% (6m), and 100% (8m). The default setting is often 4m (50%).
- **Hold Time:** Sets how long the light remains on after motion is no longer detected. Common settings are 5s, 30s, 60s, or 300s. The default setting is usually 30s.
- **Daylight Sensor (Light Sensitivity):** Determines the ambient light level at which the motion sensor becomes active.

- **2 LUX:** Light activates only in very dark conditions.
- **10 LUX:** Light activates in dim conditions.
- **50 LUX:** Light activates in moderately dim conditions (default setting).
- **DISABLE:** Motion sensor is always active, regardless of ambient light (light will turn on even in daylight if motion is detected).

Image: Diagram showing the adjustable motion sensor settings: Sensing Range (8M, 6M, 4M, 2M with default 4M), Hold Time (5S, 30S, 60S, 300S with default 30S), and Daylight Sensor (2LUX, 10LUX, 50LUX, DISABLE with default 50LUX).

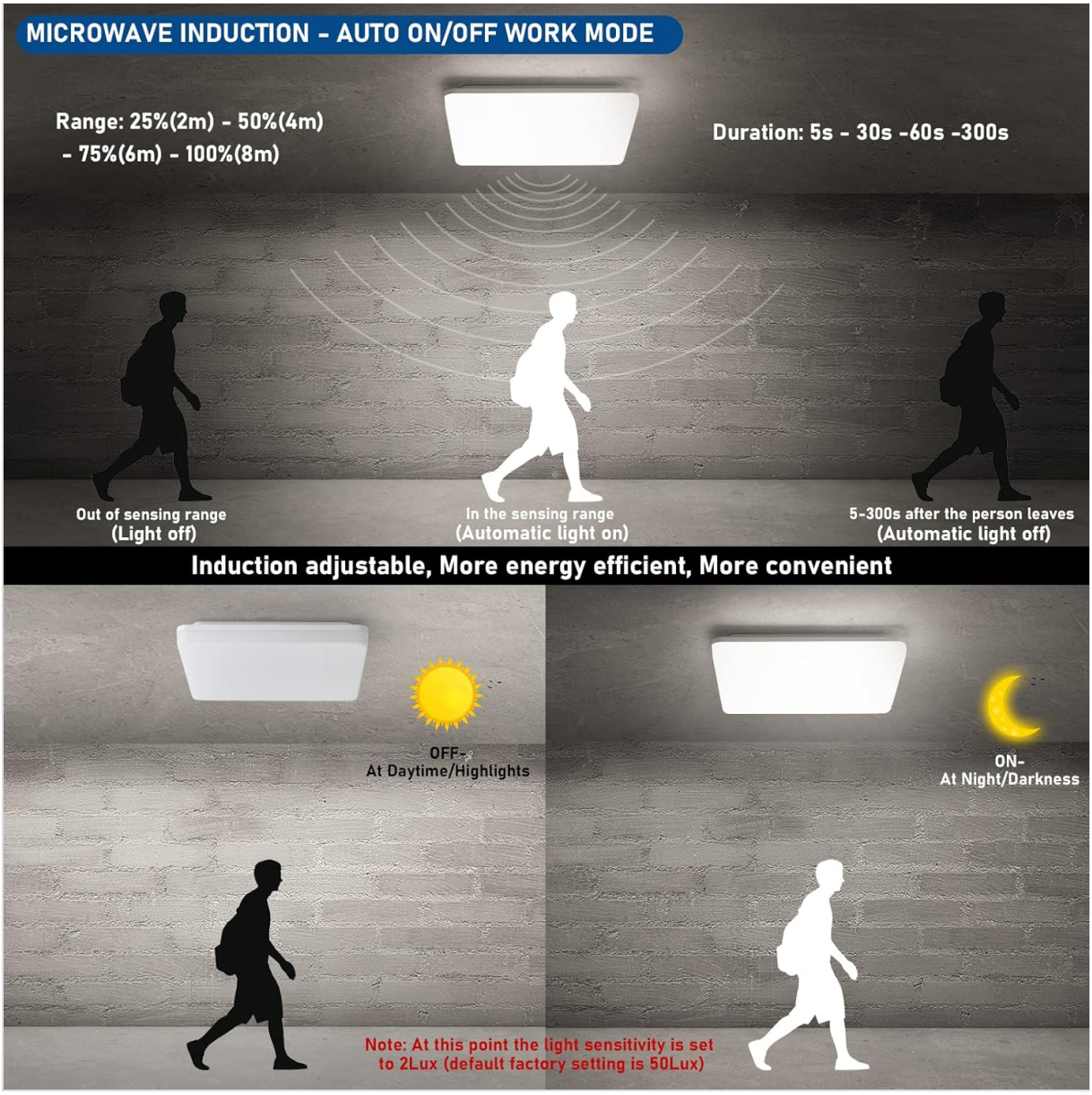

Image: Illustration of the microwave induction auto ON/OFF work mode. It shows the light turning off when out of sensing range, turning on automatically when in sensing range, and turning off 5-300 seconds after a person leaves. It also depicts the daylight sensor function: OFF at daytime/highlights and ON at night/darkness, with a note about adjusting light sensitivity.

6. Maintenance

- **Cleaning:** Disconnect power before cleaning. Wipe the fixture with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the fixture for any signs of damage or loose connections.
- **LEDs:** The LED light source is integrated and not user-replaceable.

Image: The Oraymin LED Ceiling Light installed in a modern bathroom, highlighting its IP54 rating which makes it suitable for damp locations.

7. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; incorrect wiring; sensor settings too high (daylight sensor); faulty sensor.	Check power connection; verify wiring; adjust daylight sensor sensitivity; contact support if sensor is faulty.
Light stays on continuously.	Continuous motion detected; hold time set too long; daylight sensor disabled.	Ensure no constant motion in detection area; adjust hold time; enable daylight sensor if needed.
Light turns on/off too frequently.	Sensing range too wide; sensitivity too high; environmental interference.	Reduce sensing range; lower sensitivity; check for sources of interference (e.g., moving objects, ventilation).

Light flickers.	Unstable power supply; loose connection; incompatible dimmer (this light is not dimmable).	Check power supply stability; tighten connections; ensure no dimmer is used.

Image: A comparison showing the convenience of a motion sensor light (right) versus a traditional light (left) where one might struggle to find the switch in the dark. The Oraymin light automatically turns on with motion.

Image: A visual comparison demonstrating the difference between a flickering light (labeled "Other") and a non-flickering light (labeled "Ours"), highlighting the eye protection benefit of the Oraymin product.

8. Warranty and Support

This Oraymin LED Ceiling Light comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage caused by improper installation, misuse, accidents, unauthorized repairs, or natural disasters.

For warranty claims or technical support, please contact Oraymin customer service through your retailer or the official Oraymin website. Please have your model number (QC-C280S-MR) and proof of purchase ready.

9. Compliance Information

This product complies with CE and RoHS directives, ensuring it meets European safety, health, and environmental protection requirements.

The product is rated IP54, indicating protection against dust ingress and splashing water from any direction, making it suitable for damp indoor environments.

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