

LUXON Motion Sensor Light-201

LUXON 5W A19 Radar Motion Sensor LED Bulb Instruction Manual

Model: Motion Sensor Light-201

1. INTRODUCTION

Thank you for choosing the LUXON 5W A19 Radar Motion Sensor LED Bulb. This advanced lighting solution combines energy efficiency with intelligent radar motion sensing and dusk-to-dawn functionality, providing convenient and automatic illumination for various indoor and outdoor applications. This manual will guide you through the proper installation, operation, and maintenance of your new bulb.

2. PRODUCT FEATURES

2.1 Radar Motion Sensor Technology

The LUXON LED bulb utilizes radar motion sensing, which offers enhanced sensitivity and penetration compared to traditional infrared (PIR) sensors. It detects motion up to 13-26 feet within a 360-degree angle and can even detect movement through glass, thin boards, and walls. This technology ensures reliable activation without being affected by temperature fluctuations that can impact infrared sensors.

RADAR SENSOR

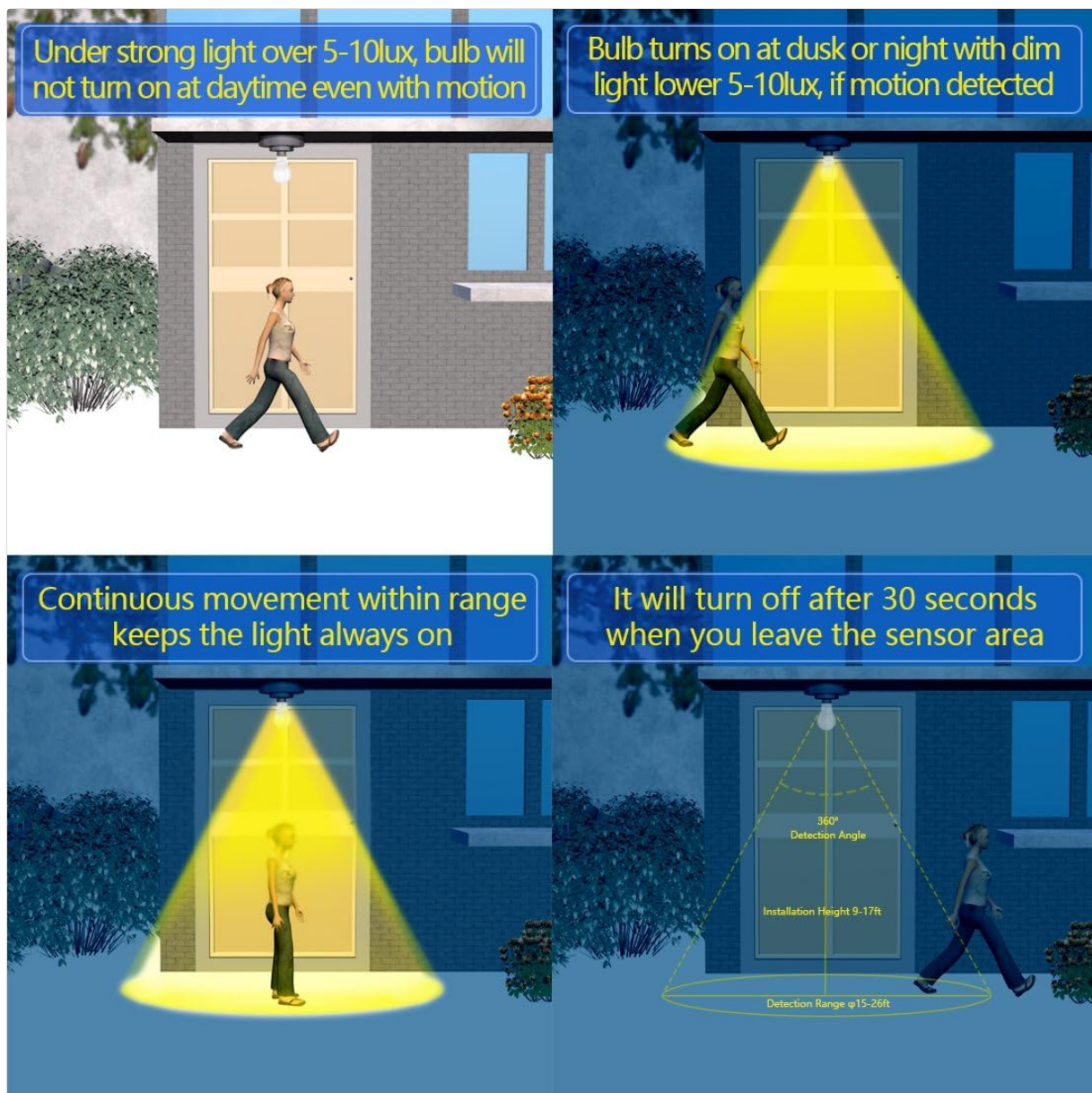


The bulb is radar sensor light bulb, it's more sensitive, more responsive, more penetrating than infrared sensor.

This image illustrates the internal components of the LUXON Radar Sensor LED bulb, highlighting the radar sensor module compared to a typical infrared sensor. The radar sensor is designed for enhanced sensitivity and penetration.

2.2 Dusk-to-Dawn Functionality

Equipped with a built-in light sensor, the bulb will not activate during daylight hours when the ambient environment is sufficiently bright (above 5-10 lux). It automatically turns on at dusk or night when motion is detected, contributing to energy savings.



This diagram shows the operational logic of the bulb: it remains off during daylight (above 5-10 lux), activates at dusk or night when motion is detected, stays on with continuous movement, and turns off 30 seconds after motion ceases.

2.3 Energy Efficiency and Lifespan

This 5W LED bulb provides illumination equivalent to a 50W incandescent bulb, producing 450 lumens of soft white light (2700K). With a long lifespan of up to 30,000 hours, it significantly reduces the need for frequent bulb replacements and lowers electricity costs.



This graphic highlights the key benefits of the LUXON Intelligent Radar Bulb, including energy-saving, light sensor integration, automatic 30-second turn-off, radar induction for motion detection, and increased sensitivity.

Lighting Facts Per Bulb	
Brightness	450lumens
Estimated Yearly Energy Cost	\$0.52
Based on 3 hrs/day, 11¢kWh Cost depends on rates and use	
Life	
Based on 3 hrs/day	27.4years
Light Appearance	
Warm <div style="display: inline-block; width: 100%; text-align: center;"> </div> Cool	
Energy Used	5W

This image displays the Lighting Facts label for the bulb, indicating 450 lumens brightness, an estimated yearly energy cost

of \$0.52, a lifespan of 27.4 years (based on 3 hrs/day), and a warm white light appearance at 2700K with 5W energy used.

3. SETUP AND INSTALLATION

3.1 General Installation

The LUXON motion sensor bulb features a standard E26 base, making it compatible with most common light fixtures. Ensure the power to the fixture is turned off before installation.



A clear view of the LUXON 5W A19 Radar Motion Sensor LED Bulb, showcasing its standard A19 shape and E26 base, ready for installation.

3.2 Important Installation Tips

- The LED bulb should be installed downward and no higher than 10 feet for optimal performance.

- Avoid installing the bulb into an enclosed fixture or one with a clear glass cover, as this can reduce the motion detection radius.
- Note that the radar sensor can be affected by metal materials. Therefore, do not install the bulb in a metal lampshade or in close proximity to large metal objects that could interfere with its detection capabilities.



This image provides crucial installation guidelines: the bulb should be installed downward and no higher than 10 feet. It also advises against installation in enclosed fixtures or clear glass covers, as this can reduce motion detection.



This diagram reiterates installation advice, specifically warning against installing the radar motion sensor bulb in a closed iron fixture due to potential interference. It confirms that the bulb functions effectively in open iron fixtures.

4. OPERATING INSTRUCTIONS

4.1 Initial Activation

Upon first installation, the bulb will illuminate and remain on for approximately 30-60 seconds without detecting any motion. After this initial period, it will turn off and enter its automatic motion-sensing mode.

4.2 Automatic Operation

In automatic mode, the bulb will turn on when motion is detected within its sensor area during dark conditions. It will remain illuminated as long as continuous motion is detected. Approximately 30 seconds after motion ceases, the bulb will automatically turn off.

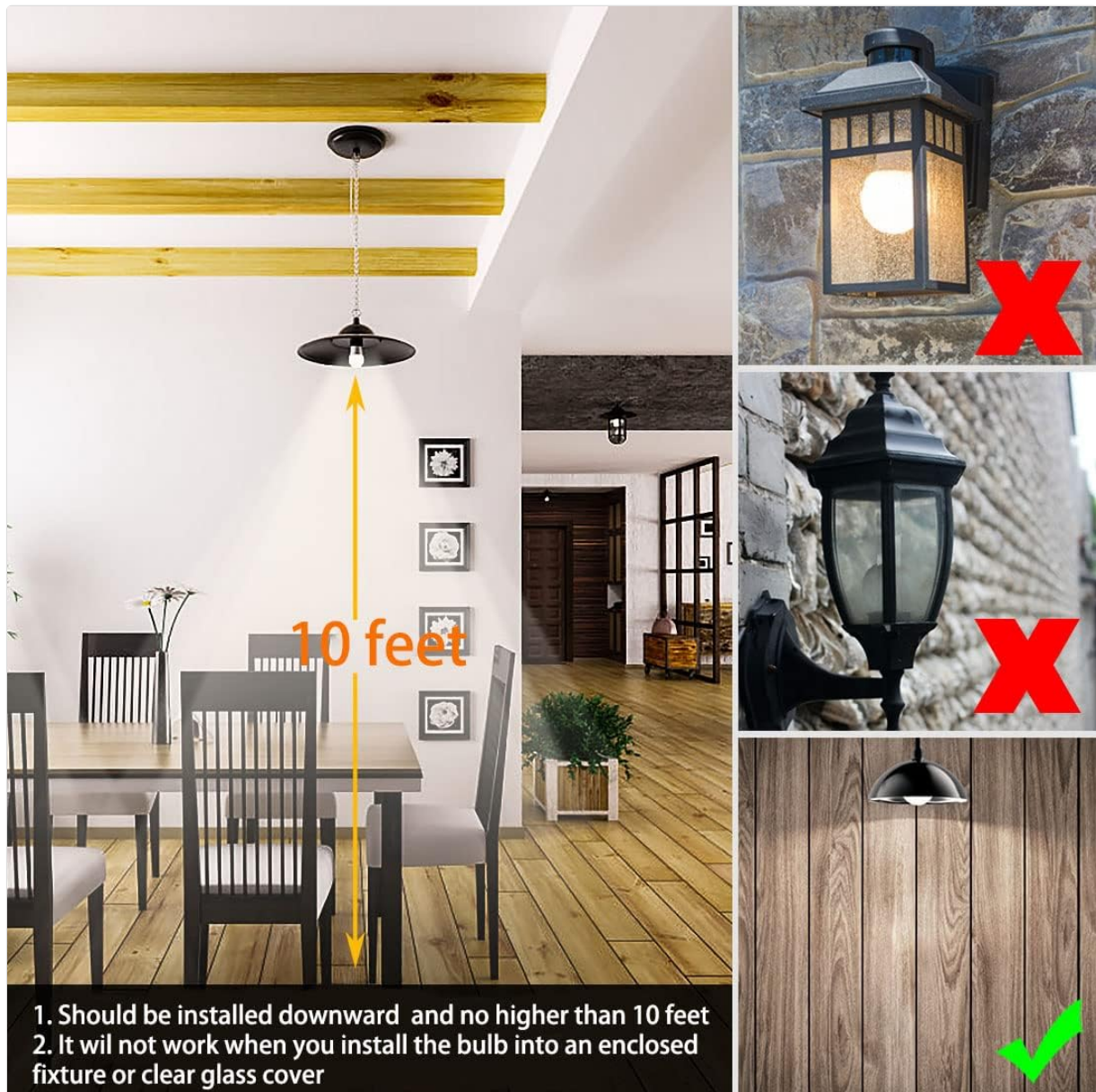
4.3 Detection Capabilities

The radar sensor's strong penetration allows it to detect motion through various non-metallic materials, including glass, thin boards, and walls. This enables the bulb to activate even before you fully enter its direct line of sight.

5. APPLICATIONS

The LUXON motion sensing bulb is suitable for a wide range of indoor and outdoor environments where automatic lighting is desired. Common applications include:

- Hallways and Corridors
- Outdoor Porches and Patios
- Walkways and Courtyards
- Garages and Basements
- Stairwells
- Toilets and Balconies
- Galleries and Offices



This image displays various suitable applications for the LUXON motion sensor bulb, including stairways, porches, corridors, and courtyards, illustrating its versatility for both indoor and outdoor environments.

6. MAINTENANCE

6.1 Cleaning

To clean the bulb, ensure the power is off and the bulb is cool. Gently wipe the surface with a soft, dry

cloth. Do not use liquid cleaners, abrasive materials, or solvents, as these can damage the bulb's finish or internal components.

6.2 Replacement

Due to its long lifespan, frequent replacement is not typically required. When the bulb eventually reaches the end of its operational life, replace it with a new LED bulb of similar specifications (E26 base, A19 shape, 5W, 2700K).

7. TROUBLESHOOTING

If you encounter issues with your LUXON motion sensor bulb, please refer to the following common troubleshooting steps:

7.1 Light Not Turning On

- **Check Power Supply:** Ensure the light fixture is receiving power and the switch (if any) is in the 'on' position.
- **Ambient Light Conditions:** The bulb has a dusk-to-dawn sensor. It will not turn on if the surrounding environment is too bright. Test in darker conditions.
- **Proper Installation:** Confirm the bulb is securely screwed into the E26 socket.
- **Initial Activation Period:** Remember the bulb stays on for 30-60 seconds after first being powered on before entering motion-sensing mode.

7.2 Light Stays On Continuously or Turns On Randomly

- **Continuous Motion:** Ensure there is no continuous motion within the detection area. Even subtle movements from pets, curtains, or foliage can trigger the sensor.
- **Metal Interference:** If installed in a metal fixture, especially a closed one, the metal can interfere with the radar sensor, causing erratic behavior. Relocate the bulb to an open fixture or one without significant metal obstruction.
- **Installation Environment:** Avoid enclosed fixtures or clear glass covers that might trap radar signals or cause reflections.
- **Sensor Sensitivity:** The radar sensor is highly sensitive and can detect through thin walls. Consider if nearby activity is triggering the bulb.

7.3 Reduced Detection Range

- **Installation Height/Direction:** Ensure the bulb is installed downward and not higher than 10 feet. Incorrect positioning can limit the detection area.
- **Obstructions:** While radar penetrates some materials, dense objects or thick walls can still reduce the effective range.

8. SPECIFICATIONS

Specification	Value
Brand	LUXON
Model Name	Motion Sensor Light-201
Light Type	LED

Specification	Value
Special Feature	Radar Motion Sensor, Dusk to Dawn
Wattage	5 Watts
Incandescent Equivalent	50 Watts
Bulb Shape Size	A19
Bulb Base	E26
Brightness	450 Lumens
Light Color	Soft White
Color Temperature	2700 Kelvin
Voltage	120 Volts (Accepted: 100-240V)
Average Life	30,000 Hours
Indoor/Outdoor Usage	Indoor, Outdoor
Material	Plastic
Product Dimensions	2.36"W x 4.33"H
Item Weight	2.47 ounces

9. WARRANTY AND SUPPORT

LUXON stands behind the quality of its products. This motion sensor light bulb comes with a **12-month warranty** against manufacturing defects. Additionally, we offer a **30-day money-back guarantee** to ensure your complete satisfaction.

For technical support, warranty claims, or any questions regarding your product, please refer to the contact information provided with your purchase or visit the official LUXON website.

10. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

This video provides a detailed overview of the LUXON 5W A19 Radar Motion Sensor LED Bulb, demonstrating its features, installation, and operational benefits.