

Radio Powr Savr Wireless Daylight Sensor

The Lutron wireless daylight sensor is a battery-powered sensor that automatically controls lights via RF communication to compatible dimming or switching devices. This sensor mounts to the ceiling and measures light in the space. The sensor then transmits the light level to the associated dimming or switching devices that automatically control the lights to balance light level in the space. The sensor combines both convenience and exceptional energy savings potential along with ease of installation.

Features

- Wireless daylight sensor has simple calibration.
- Daylight compensation through Lutron reliable open loop control.
- Designed to give a linear response to changes in viewed light level.
- Light range 0 to 1600 lx (0 to 150 fc).
- Uses Clear Connect technology.
- Works with Radio Powr Savr occupancy/vacancy sensors and Pico wireless controls.
- Intuitive test mode provides instant system verification.
- Multiple ceiling-mount methods available for different ceiling materials.
- Front accessible test buttons make setup easy.
- 10-year battery life.
- RoHS compliant.



Sensor Shown in White



Sensor Shown in Black

Model Number

LRF__-DCRB-__

Color Code

Frequency/Channel Code

Frequency/Channel Codes

2 = 431.0 – 437.0 MHz (U.S.A., Canada, Mexico, Brazil)

3 = 868.125 – 869.850 MHz (Europe, U.A.E.)

4 = 868.125 – 868.475 MHz (China, Singapore)

5 = 865.5 – 866.5 MHz (India)

6 = 312.3 – 314.8 MHz (Japan)

7 = 433.05 – 434.79 MHz (Hong Kong, Macau)

Color Code

WH = White

BL = Black¹

Compatible RF Devices

- For use with Lutron products only.
- Communicates to various wireless Lutron systems.²

¹ The lens of the sensor is white and the housing is black.

² Contact Lutron Customer Service at www.lutron.com for frequency/channel code compatibility with your particular geographic region, and for integrating with other Lutron lighting and shading products.

Job Name:	Model Numbers:	
Job Number:		

Specifications

Regulatory

Lutron Quality Systems Registered to ISO 9001:2015

Standards

LRF2-

- FCC certified
- IC certified
- COFETEL
- ANATEL
- ASEP
- CRC
- SUBTEL
- SUPETEL
- SUTEL
- Meets CA (U.S.A.) Energy Commission Title 24 requirements
- cULus Listed

LRF3-

- CE Marked (European Union)
- TRA Type Approved (United Arab Emirates)
- CITC (Kingdom of Saudi Arabia)

LRF4-

- SRRC Type Approved (Mainland China)
- iDA Registered (Singapore)

LRF5-

- WPC Type Approved (India)

LRF6-

-  007YUUL0688

LRF7-

- FCC certified

Power / Performance

- Operating voltage: 3 V $\equiv$
- Operating current: 7 μ A
- Requires one CR 2450 lithium battery
- 10-year battery life
- Non-volatile memory (settings are stored during power loss)

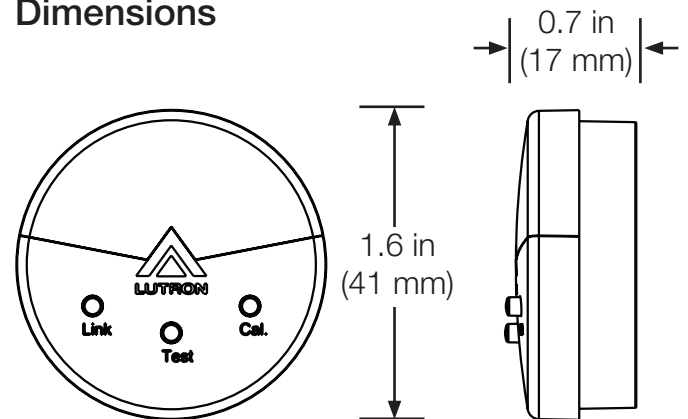
Environment

- Temperature: 32 °F to 104 °F (0 °C to 40 °C)
- For indoor use only
- Relative humidity: < 90% non-condensing

Range

- **LRF2-, LRF3-, LRF4-, LRF5-, LRF7-**
Local load controls must be located within 60 ft (18 m) line of sight, or 30 ft (9 m) through walls, of a sensor.
- **LRF6-**
Local load controls must be located within 23 ft (7 m) through walls of a sensor.

Dimensions

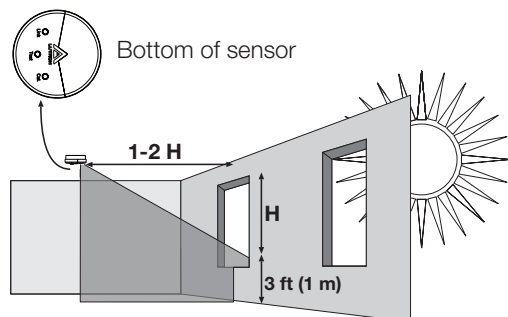


Job Name:	Model Numbers:	
Job Number:		

Mounting

Location for average size areas

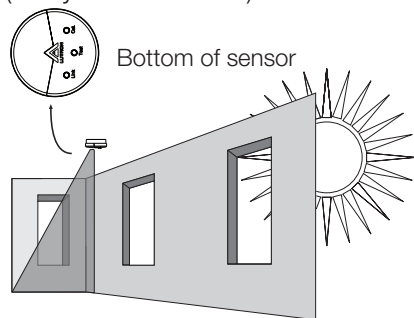
Arrow points towards the area viewed by the sensor (towards windows).



H = Effective Window Height

Location for narrow areas (corridors, private offices)

Arrow points towards the area viewed by the sensor (away from window)



Installation Overview

Determine the Daylight Sensor mounting location using the diagrams at left:

- The arrow on the daylight sensor points toward the area viewed by the sensor.
- Place the daylight sensor so the arrow is pointed at the nearest window at a distance from the window of one to two times the effective window height (H).
- The effective window height (H) starts at the window sill or 3 ft (1 m) up from the floor, whichever is higher, and ends at the top of the window.
- Ensure that the view of the daylight sensor is not obstructed (e.g. ceiling fans or pendant fixtures).
- Do not position the daylight sensor above an electric light that shines up at the ceiling or at the sensor.
- Do not position the daylight sensor in the well of a skylight or above indirect lighting fixtures.
- For narrow areas where the daylight sensor cannot be placed 1-2 (H) from windows, place sensor near windows facing into the space.
- Mount sensor(s) away from large metal surfaces (e.g. light fixtures or metal-backed ceiling tiles). Metal objects will affect the RF performance of the sensor.
- For detailed and application specific mounting information, please see "Daylight Sensor Design and Application Guide" (P/N 3683587) at www.lutron.com/TechnicalDocumentLibrary/3683587_Daylight_Sensor_Design_and_App_Guide_sg.pdf

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