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# Energi TriPak® Basic Packages

The Energi TriPak® Basic Package incorporates Maestro® load controls and wireless sensors which provides a system that delivers energy savings, convenience, and ease of installation.

Maestro Wireless® switches use Lutron® patented Clear Connect® RF Technology, which enables wireless communication with Radio Powr Savr™ sensors for light control.

#### **Features**

- The Energi TriPak<sub>®</sub> Basic package provides switching and occupancy/vacancy sensing of multiple load types.
- Lutron® patented Clear Connect® RF Technology works through walls and floors.
- Controls include Front Accessible Service Switch (FASS™) for safe lamp replacement.
- Two-wire installation for any retrofit application.
- Power failure memory: If power is interrupted, the control will return to its previously set level prior to interruption.

#### **Model Numbers**

MRF2-1S8A-1OC (1) 8 A Switch

(1) Radio Powr Savr™ ceiling sensor

MRF2-1S8A-1OH (1) 8 A Switch

(1) Radio Powr Savr™ hallway sensor

MRF2-1S8A-1OK (1) 8 A Switch

(1) Radio Powr Savr™ corner sensor

MRF2-1S8A-1OW (1) 8 A Switch

(1) Radio Powr Savr™ wall sensor

MRF2-1S8A-1VC (1) 8 A Switch

(1) Radio Powr Savr™ ceiling

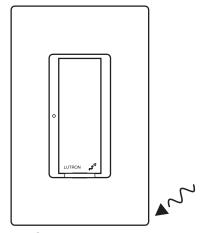
vacancy sensor

MRF2-2S8A-1OW (2) 8 A Switches

(1) Radio Powr Savr™ wall sensor

#### **Receiving Devices**

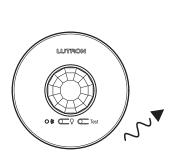
Maestro Wireless® Control



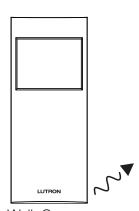
RF Switch

#### **Transmitting Devices**

Radio Powr Savr™ Sensors



Ceiling-Mounted Occupancy and Vacancy Sensor



Wall, Corner, or Hall Mounted Occupancy and Vacancy Sensor

#### **LUTRON** SPECIFICATION SUBMITTAL

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#### Maestro Wireless® Switch

#### **Model Number**

#### Switch

Lighting and motor loads

MRF2-8S-DV-XX 8 A Lighting, 3 A Fan (1/10 HP

motor, 120 V∼ only), Spec Grade Electronic Switch 120–277 V∼, NO NEUTRAL

WIRE REQUIRED

# **Companion Controls**

Claro<sub>®</sub> Gloss Finishes

MA-AS-XX Companion Switch 120 V $\sim$  MA-AS-277-XX Companion Switch 277 V $\sim$ 

#### Satin Colors<sub>®</sub> Satin Finishes

MSC-AS-XX Companion Switch 120 V~ MSC-AS-277-XX Companion Switch 277 V~

"XX" in the model number represents color/finish code.

Switch

MRF2-8S-DV-XX

#### Companion Switch



MA-AS-XX

# Switch Load Type and Capacity

# No Neutral Required

1 1 1	Voltage	Load Type		Maximum Load		
	Not Ganged	End of Gang	Middle of Gang			
MRF2-8S-DV <sup>1,2</sup>	120–277 V∼	Incandescent/ Halogen	25 W	8 A	8 A/7 A <sup>3</sup>	7 A
	120–277 V∼	Fluorescent/ LED/CFL	40 W (LUT-MLC) <sup>4</sup>	8 A	8 A/7 A <sup>3</sup>	7 A
	120 V∼	Fan Motor	0.4 A	1/10 HP 3 A	1/10 HP 3 A	1/10 HP 3 A

<sup>1</sup> Switch Load Type: MRF2-8S-DV is designed for use with permanently installed lighting loads and with fan motor loads up to 1/10 HP (3 A, 120 V~ only).

#### **SPECIFICATION SUBMITTAL**

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Job Name:	Model Numbers:	
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<sup>2</sup> Switch Load Type: MRF2-8S-DV are designed for use with permanently installed lighting loads.

 $<sup>{</sup>f 3}$  Maximum load for double gang application is 8 A. Triple gang application derates maximum load to 7 A.

<sup>4</sup> The LUT-MLC (included) ensures proper function with certain fluorescent, CFL, and LED load types.

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#### **Specifications**

#### **Regulatory Approvals**

- UL<sub>®</sub> Listed.
- CSA Certified.
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- Industry Canada Certified.

#### Power

Operating voltage: 120 – 277 V~ 50/60 Hz

# **Key Design Features**

#### Switch

• On a single-tap, lights turn ON or OFF.

#### All RF Local Controls

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
- Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
- Controls always operate locally and do not require system control.
- Power failure memory: should power be interrupted, the control will return to its previously set level prior to the interruption when power is restored.
- Uses conventional Single-pole, 3-way and 4-way wiring.
- Multiple location control from Switch and up to 9 Companion Switches.
- Use Lutron<sub>®</sub> Designer (Claro<sub>®</sub> and Satin Colors<sub>®</sub>)
   wallplates or designer-style wallplates from other
   manufacturers. Wallplates are sold separately.
- Lutron Claro<sub>®</sub> and Satin Colors<sub>®</sub> wallplates snap on with no visible means of attachment.
- Requires a 1-gang U.S. wallbox. 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum.
- Green indicator light.

#### **System Communications and Capacity**

- Maestro Wireless<sub>®</sub> controls communicate with the Pico<sub>®</sub> wireless controls and Radio Power Savr<sub>™</sub> sensors through radio frequency (RF).
- Maestro Wireless<sub>®</sub> local controls must be located within 60 ft (18 m) line of sight or 30 ft (9 m) through walls, of Radio Power Savr™ sensors.
- Maestro Wireless
   local controls must be located within 60 ft (18 m) line of sight or 30 ft (9 m) through walls, of a Pico
   wireless control.
- Up to 10 sensors or Pico<sub>®</sub> wireless controls can be assigned to each switch.
- Sensors can be assigned to multiple switches.

#### **Environment**

 Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%-90% humidity, noncondensing. Indoor use only.

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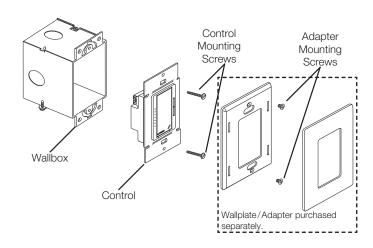
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# Operation

# Status LED Indicates load status; glows softly as night light when light is off Tapswitch Tap on/off FASSTM Front Accessible Service Switch

# Mounting

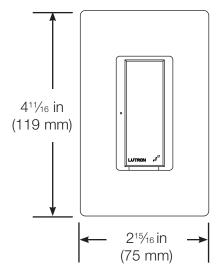


#### **IMPORTANT NOTICE:**

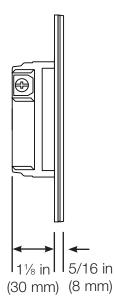
**FASS**<sub>TM</sub> - Front Accessible Service Switch - to service load, remove power by pulling the FASS<sub>TM</sub> switch out completely on either the Switch or Companion Switch. After servicing load, push the FASS<sub>TM</sub> switch back in fully to restore power to the control.

# **Dimensions**

#### **Front View**



# Side View



#### **LUTRON** SPECIFICATION SUBMITTAL

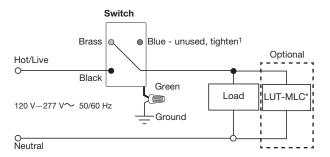
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# Wiring Diagrams

#### **Single Location Installation**

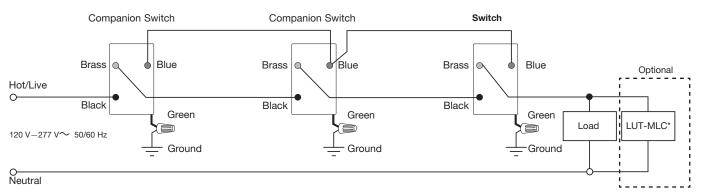
MRF2-8S-DV



\*A LUT-MLC ensures proper function when fluorescent, CFL, or LED loads are used. Install the LUT-MLC inside a load fixture or in a separate J-box of the circuit.

#### Multi-Location Installation<sup>2</sup>

MRF2-8S-DV3 with MA-AS/MA-AS-277 or MSC-AS/MSC-AS-277



- 1 When using controls in single location installations, tighten the blue terminal without any wires attached. DO NOT connect the blue terminal to any other wiring or to ground.
- <sup>2</sup> Up to 9 Maestro<sub>®</sub> Companion Switches may be connected to the Maestro Wireless<sub>®</sub> Switch. Total blue terminal wire length may be up to 250 ft (76 m).
- $^{\rm 3}$  Requires MA-AS/MSC-AS for 120 V  $\sim$  applications, and MA-AS-277/MSC-AS-277 for 277 V  $\sim$  applications.

#### **LUTRON** SPECIFICATION SUBMITTAL

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# Colors and Finishes

# **Gloss Finishes**





**Satin Finishes** 



MR

ES





PL



SW



Light



Eggshell

**Biscuit** 



AL

Almond LA

Taupe TP





Gray GR

Brown BR

Palladium PD

Midnight MN

Sienna SI

MS

ВІ

Terracotta TC



Black BL



Greenbriar GB



BG

Bluestone Mocha Stone



Goldstone

GS

Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.



Desert Stone DS



Stone



Limestone LS

# Metal Finish (wallplate only)



Stainless Steel

When using Stainless Steel wallplates, it is recommended to order the controls in Black (BL) or Midnight (MN).

#### **LUTRON** SPECIFICATION SUBMITTAL

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# Radio Powr Savr<sub>IM</sub> Wireless Occupancy/Vacancy Ceiling Sensor

Lutron<sub>®</sub> Radio Powr Savr™ occupancy/vacancy sensors are wireless, battery-powered passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming and switching devices. These sensors detect the heat from people moving within an area to determine when the space is occupied. The sensors then wirelessly transmit the appropriate commands to the associated dimming and switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings potential along with ease of installation.

# 

#### **Features**

- Wireless occupancy sensor has 3 settings available: Auto-On/Auto-Off, Auto-On Low-Light/Auto-Off, and Manual-On/Auto-Off
- Auto-On Low-Light feature will only turn lights on automatically if there is less than approximately 10 Lux (1 fc) of ambient light
- Vacancy only model available to meet California (U.S.A.) Title 24 requirements
- Uses Clear Connect<sub>®</sub> technology
- Passive infrared motion detection with exclusive Lutron® XCT<sub>TM</sub> Technology for fine motion detection
- 360° coverage ranges from 324 ft² (30.2 m²) to 676 ft² (62.4 m<sup>2</sup>), depending on mounting height. See range diagrams for more details.
- Simple and intuitive adjustments available for Timeout, Auto-On, and Activity settings
- Supports advanced occupancy features, such as dependent occupancy groups and customizable occupied/unoccupied presets in some systems
- Multiple sensors can be added for extended coverage refer to product specification submittal of receiving device to determine system limits
- Lens illuminates during test mode to verify ideal locations
- Multiple ceiling-mount methods available for different ceiling materials
- Front accessible test buttons make programming easy
- 10-year battery life design
- RoHS compliant

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# **Specifications**

#### Regulatory

• Lutron® Quality Systems Registered to ISO 9001:2008

#### Standards Approved

- FCC certified
- IC certified
- Meets CA (U.S.A.) Energy Commission Title 24 requirements
- COFETEL
- ANATEL
- SUTEL

#### Power/Performance

- Operating voltage: 3 V===
- Operating current: 14 μA nominal
- Requires one CR 123 lithium battery
- 10-year battery life
- Non-volatile memory (saved changes are stored during power loss)

#### **Environment**

- Temperature: 32 °F to 104 °F (0 °C to 40 °C)
- For indoor use only

#### Range

Local load controls must be located within 60 ft (18 m) line of sight, or 30 ft (9 m), through walls, of a sensor.

#### Sensor Coverage Test

- Front accessible test button
- Lens illuminates orange in response to motion during test mode and is visible from 60 ft (18 m)

#### Wireless Communication Test

- Front accessible test button
- Turn associated loads on and off

#### **Timeout Options**

- 1 minute \*
- 5 minutes
- 15 minutes default setting
- 30 minutes

#### Auto-On Options (Occupancy Versions Only)

- "Enabled" Sensor turns lights ON and OFF automatically – default setting.
- "Low Light" Sensor turns lights ON automatically only in low ambient light conditions. Sensor turns lights OFF automatically.
- "Disabled" \*\* Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically.

#### **Activity Options**

- Low Activity (⅔) default setting
- Medium Activity (⅔)
- High Activity (乳)
- \* Intended for use in high-activity, briefly occupied areas only
- \*\* There is a 15-second grace period that begins when the lights are automatically turned off, during which the lights will automatically turn back on in response to motion. This grace period is provided as a safety and convenience feature in the event the lights turn off while the room is still occupied, so that the user does not need to manually turn the lights back on. After 15 seconds, the grace period expires and the lights must be manually turned on.

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#### Installation Overview

#### Sensor Setup

• Sensor setup is available as a service by Lutron. For more information see the **Sensor Layout and Tuning** service document (Lutron<sub>®</sub> P/N 3601235).

#### Sensor Placement

- The ability of the sensor to detect motion requires line of sight of room occupants. The sensor must have an unobstructed view of the room. **DO NOT** mount behind or near tall cabinets, shelves, hanging fixtures, ceiling fans, etc. The sensor cannot see through glass objects such as patio or shower doors.
- Hot objects and moving air currents can affect the performance of the sensor. To ensure proper operation, the sensor should be mounted at least 4 ft (1.2 m) away from HVAC vents and light bulbs that are below the ceiling line.
- The performance of the sensor depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the ability of the sensor to detect occupants.

### Mounting

Temporary mounting is optional to test sensor coverage and wireless communication before permanently installing the sensor.

#### Drop Ceiling (Compressed Fiber Ceiling Tile)

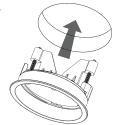
The mounting wire is provided for both temporary and permanent mounting of the sensor to ceiling tiles. It is designed to allow temporary mounting, testing, and repositioning (if necessary) of the sensor without damaging a ceiling tile. Once the final position of the sensor has been chosen, the mounting wire should be twisted together to permanently secure the sensor in place.

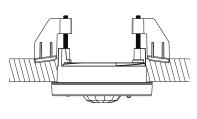
#### Solid Ceiling (Drywall, Plaster, Concrete, or Wood)

- Temporary mounting: Ten (10) temporary mounting strips can be purchased in the kit L-CMDPIRKIT for temporarily mounting and testing the sensor.
- Permanent mounting: Screws and anchors (for drywall or plaster) provided to mount the sensor.

#### Recess Mount

- Do not recess mount sensor in a metal surface.
- Recess mounting ring requires an opening of 3 in (76 mm) in diameter.
- Recess mounting ring secures internally to ceiling. Sensor twists into the recess mounting ring and sits flush with ceiling (see image to right).
- Recess mounting ring purchased as a separate kit: L-CRMK-WH.



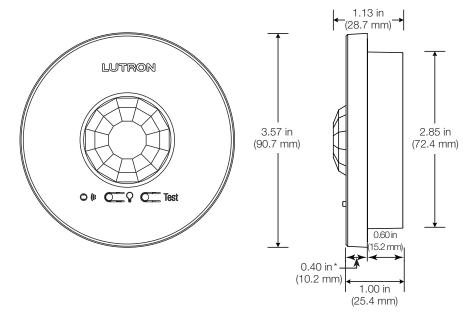


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# **Dimensions**



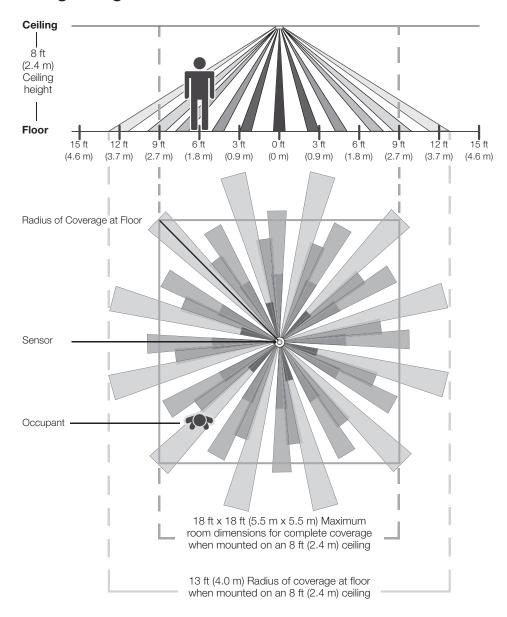
# **LUTRON** SPECIFICATION SUBMITTAL

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<sup>\*</sup> With the recess mounting kit 0.46 (11.7 mm) is below the plane of the ceiling.

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# Range Diagrams



#### Sensor Coverage Chart (for sensor mounted in center of room)

Ceiling Height	Maximum Room Dimensions for Complete Floor Coverage*		
8 ft (2.4 m)	18 ft x 18 ft (5.5 m × 5.5 m)	324 ft² (30.2 m²)	
9 ft (2.7 m)	20 ft x 20 ft (6.1 m × 6.1 m)	400 ft <sup>2</sup> (37.2 m <sup>2</sup> )	
10 ft (3.0 m)	22 ft x 22 ft (6.7 m × 6.7 m)	484 ft² (44.9 m²)	
12 ft (3.7 m)	26 ft x 26 ft (7.9 m x 7.9 m)	676 ft² (62.4 m²)	

<sup>\* 12</sup> ft (3.7 m) is the recommended maximum mounting height

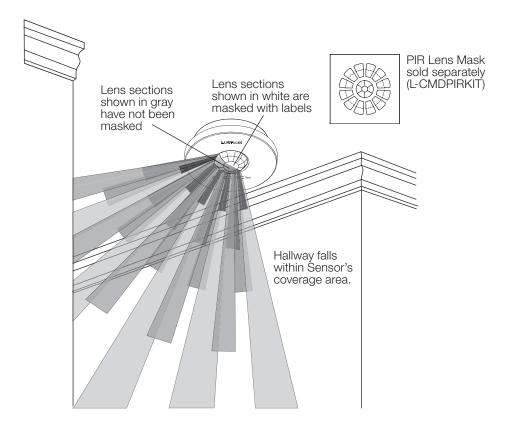
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# Lens Masking

Whenever possible, the sensor should be installed in a location where it cannot view areas outside the intended space, such as hallways or adjacent rooms. If this situation cannot be avoided, portions of the lens may be masked to block the view of the sensor into undesired areas. Ten (10) PIR Lens Masks can be purchased in the kit L-CMDPIRKIT.



#### **LUTRON** SPECIFICATION SUBMITTAL

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#### Wireless Wall-Mount Sensor

Lutron<sub>®</sub> wall-mounted occupancy and vacancy sensors are wireless battery-powered passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming or switching devices. These sensors detect the heat from people moving within an area to determine when the space is occupied. The sensors then wirelessly transmit the appropriate commands to the associated dimming or switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings along with ease of installation.

#### **Features**

- Wireless occupancy/vacancy sensor has 2 settings available: Auto-On/Auto-Off, and Manual-On/Auto-Off
- Vacancy model meets California Title 24 requirements
- Passive infrared motion detection with exclusive Lutron<sub>®</sub> XCT™ Technology for fine motion detection
- 180° field of view model:

Minor motion =  $1500 \text{ ft}^2 (139.4 \text{ m}^2)$ Major motion =  $3000 \text{ ft}^2 (278.7 \text{ m}^2)$ 

• 90° field of view model:

Minor motion =  $1225 \text{ ft}^2 (113.8 \text{ m}^2)$ Major motion =  $2500 \text{ ft}^2 (232.3 \text{ m}^2)$ 

• Hallway model with long, narrow field of view:

Major motion = coverage of up to 150 ft (45.7 m)

- Simple and intuitive adjustments available for Timeout, Activity, and Auto-On settings
- Accessible test buttons make setup easy
- Lens illuminates during test mode to verify ideal locations
- Multiple sensors can be added for extended coverage—refer to product specification submittal of receiving device to determine system limits
- 10-year battery life design
- RoHS compliant

#### Compatible RF Devices

- For use with Lutron® products only
- Communicates to various wireless Lutron. Clear Connect. systems\*

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.

#### **\$LUTRON**® SPECIFICATION SUBMITTAL

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# **Specifications**

#### Regulatory

 Lutron Quality Systems Registered to ISO 9001:2008

#### Regulatory Approvals

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

#### Power/Performance

- Operating voltage: 3 V ===
- Operating current: 14 µA nominal
- Requires one CR 123 lithium battery
- 10-year battery life design
- Non-volatile memory (saved changes are stored during power loss)

#### **Environment**

- Temperature: 32 °F to 104 °F (0 °C to 40 °C)
- For indoor use only

#### RF Range

Distance between local load controls and sensor should not exceed 60 ft (18 m) line of sight or 30 ft (9 m) through walls.

#### **Sensor Coverage Test**

- Dedicated test button
- Lens illuminates orange in response to motion during test mode

#### Wireless Communication Test

- Dedicated test button
- Turn associated loads on and off

#### **Timeout Options**

- 1 minute \*
- 5 minutes
- 15 minutes default setting
- 30 minutes

#### Auto-On Options (Occupancy Versions Only)

- "Enabled" Sensor turns lights ON and OFF automatically - default setting.
- "Disabled" \*\* Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically.

#### **Sensitivity Options**

- Low Activity (₽) default setting
- Medium Activity (?)
- High Activity (₹)
- \* Intended for use in high-activity, briefly occupied areas only
- \*\* There is a 15-second grace period that begins when the lights are automatically turned off, during which the lights will automatically turn back on in response to motion. This grace period is provided as a safety and convenience feature in the event the lights turn off while the room is still occupied, so that the user does not need to manually turn the lights back on. After 15 seconds, the grace period expires and the lights must be manually turned on.

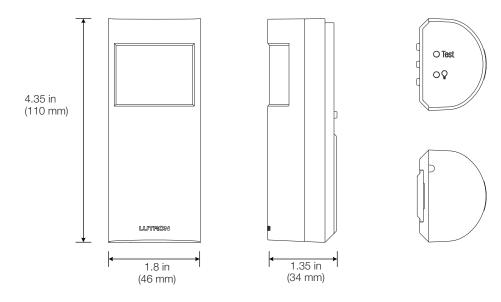
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# **Dimensions**



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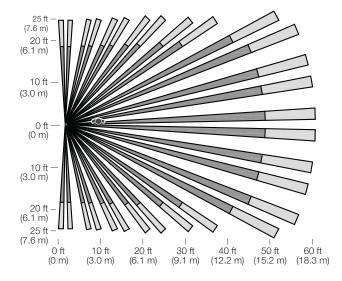
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# **Coverage Diagrams**

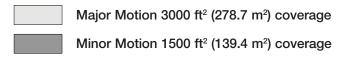
#### 180° Wall-Mount Sensors

(Models: LRFX-OWLB-P-WH and LRFX-VWLB-P-WH)

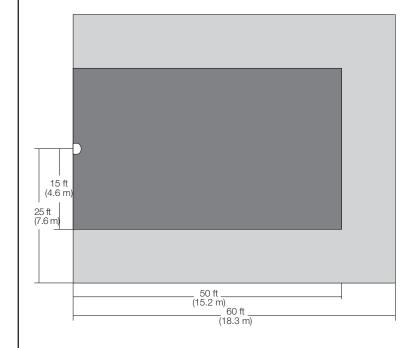
#### Horizontal Beam Diagram



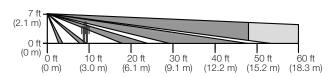
#### **Tested Coverage Area**



#### Compliant to NEMA WD7 test grid shown below



#### Vertical Beam Diagram\*



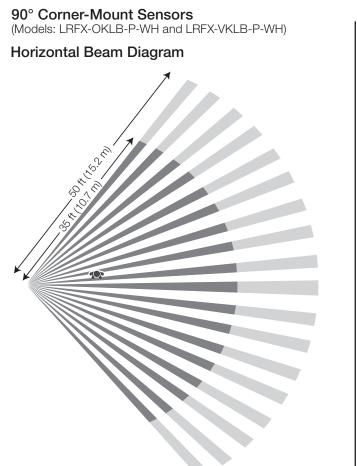
<sup>\*</sup> Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m).

# **LUTRON** SPECIFICATION SUBMITTAL

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# **Coverage Diagrams**

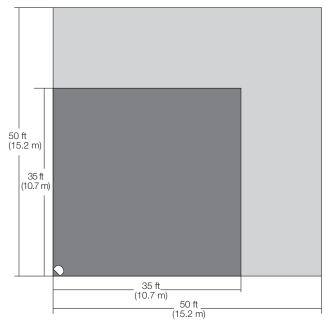


#### **Tested Coverage Area**

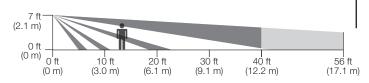
Major Motion 2500 ft² (232.3 m²) coverage

Minor Motion 1225 ft² (113.8 m²) coverage

#### Compliant to NEMA WD7 test grid shown below



#### Vertical Beam Diagram\*



<sup>\*</sup> Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m).

# **LUTRON** SPECIFICATION SUBMITTAL

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# **Coverage Diagrams**

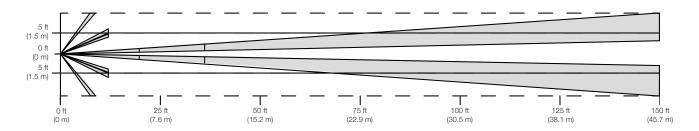
#### **Hallway Sensors**

(Models: LRFX-OHLB-P-WH and LRFX-VHLB-P-WH)

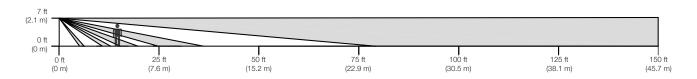
#### **Maximum Recommended Hallway Length**

Width of Hall	Length of Hall
6 ft (1.8 m) or less	50 ft (15.2 m)
8 ft (2.4 m)	100 ft (30.5 m)
10 ft (3.0 m) or more	150 ft (45.7 m)

#### **Top View**



#### Side View



<sup>\*</sup> Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.8 m and 2.4 m) and centered within hallway.

- Designed to mount at the end of a hallway with a clear view down the length of a hall.
- Detection at longer distances is best when motion occurs at right angles to the sensor.
- Multiple sensors can be used to extend coverage.

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#### Installation Overview

#### Sensor Placement

- The mounting height of the sensor should be between 6 ft and 8 ft (1.6 m and 2.4 m)
- For smaller rooms less than 12 ft x 12 ft (3.7 m x 3.7 m), detection may be improved by mounting the sensor at 6 ft (1.8 m) from the floor.
- The ability to detect motion requires that the sensor have line-of-sight of all room occupants. The sensor must have an unobstructed view of the room. DO NOT mount behind or near tall cabinets, shelves, hanging fixtures, etc. The sensor cannot detect occupants through glass objects such as patio or shower doors.
- Hot objects and moving air currents can affect the performance of the sensor. To ensure proper operation, the sensor should be mounted at least 4 ft (1.2 m) away from light bulbs and HVAC vents.
- The performance of the sensor depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the sensor's ability to detect occupants.
- Distance between local load controls and sensor should not exceed 60 ft (18 m) line of sight or 30 ft (9 m) through walls.

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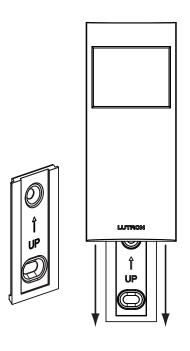
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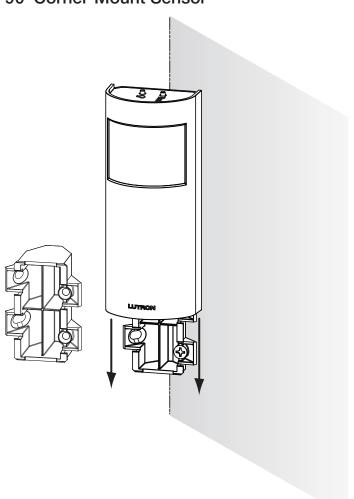
# Mounting

- 180° and hallway sensors mount directly to wall with mounting bracket (included). See figure below.
- 90° sensors mount directly in corner or on wall offset away from corner with mounting bracket (included). See figure below.
- Temporary mounting is recommended to test sensor coverage and wireless communication before permanently installing the sensor.
  - Temporary mounting: A 3M<sub>™</sub> Command<sub>™</sub> adhesive strip is provided for temporarily mounting and testing the sensor. This strip is designed for easy, damage-free removal and is not reusable.
  - Permanent mounting: Mounting bracket, screws and anchors are provided to mount sensor.
  - Flexible Armature Mounting Kit P/N LRF2-MTG-KIT-CPN5991 (sold separately): A flexible sensor mounting bracket which allows sensor to be mounted at right angles and at greater heights to increas coverage area.

# 180° Wall-Mount Sensor & Hallway Sensor



#### 90° Corner-Mount Sensor



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