



# Stairwell Standard Fixture

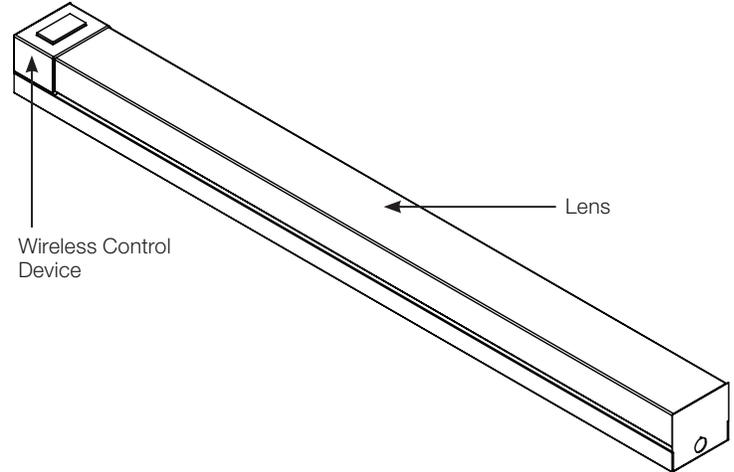
## Installation Instructions

**IMPORTANT INFORMATION**  
**Please Read Before Installing**

### Important Notes

1. Install and wire in accordance with national and local electrical codes, by a qualified professional familiar with the construction and operation of fluorescent luminaire electrical systems and the hazards involved.
2. Fully assembled fixture comes ready to install:
  - Fixtures are shipped with preset occupied and unoccupied light levels. Light levels may need to be field adjusted to meet local code (see **Programming**).
  - Pre-wired Lutron® 1% dimming ballast. Reduced-wattage T8 lamps are able to dim to a minimum of 10% with an EcoSystem® reduced-wattage dimming ballast. 32 W T8 ballasts will not operate with reduced-wattage lamps.
3. Lamps are not included with this fixture. For optimal performance, install new lamps with installation. Use only with lamps conforming to the IEC 60081/60901 specification. Lutron recommends GE, Sylvania, or Philips lamps that are certified for dimming.  
**Note:** Consult lamp manufacturer for lamp burn-in requirements. To burn-in, see **Figure D**.
4. Compatible with Lutron® Radio Powr Savr™ wireless occupancy sensors (not included). At a minimum, one sensor per entryway is required.  
**Note:** Not compatible with Radio Powr Savr™ daylight sensors or Pico® wireless controls.
5. Ambient operating temperature: 50 to 104 °F (10 to 40 °C). 0 to 90% humidity. Non-condensing, indoor/dry location use only.
6. Emergency Ballast Only:  
The emergency ballast fixture provides an exterior test button with an LED for identification and to verify power. Pressing the button will mimic an emergency power loss situation and illuminate one lamp, verifying that the emergency ballast is properly wired and charged.

**Figure A:** Installation Components



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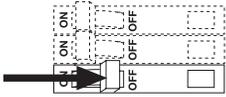


## Installation



**WARNING! Shock Hazard. May result in serious injury or death.** Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing.

1. Turn off power to the fixture location.



2. Remove the existing fixture, preserving the power wiring. Carefully remove the lens and cover plate on the Lutron® Stairwell Fixture to access the mounting holes and power wiring. Determine the appropriate mounting method for the new fixture, and secure the fixture to the wall or ceiling. Use appropriate mounting hardware to support a 20 lb (9 kg) fixture.

3. Connect Power Source to the Ballast Disconnect (see **Figure B**).

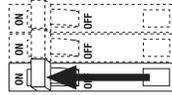
**Note:** Ensure all components are properly grounded and check that all wires are securely connected

Emergency Ballast Only:

- For input power wiring, connect either the Black wire for 120 V~, or the Orange wire for 277 V~ on the emergency ballast to the line/hot input connector of the power source. Cap off the power wire you do not use.
- Connect Emergency Ballast Battery Disconnect prior to restoring power to enable the emergency output.

4. Reassemble the fixture.

5. Restore power.



**Note:** Fixture will default to occupied light level (high-end).

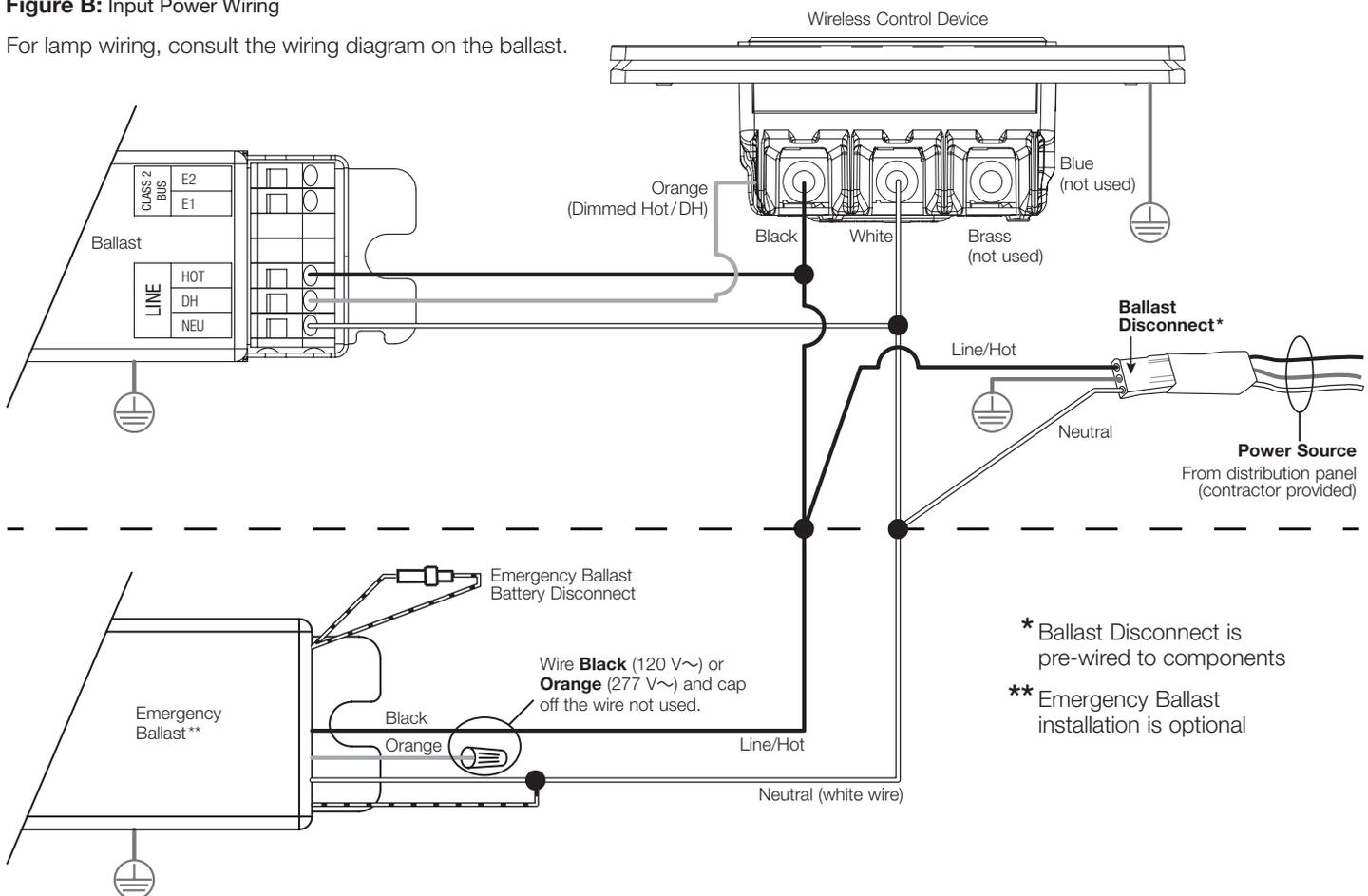
6. Install Radio Powr Savr™ occupancy sensors that will be associated to the fixture. See instruction sheet provided with occupancy sensor for proper installation.

**Note:** At a minimum, one sensor per entryway is required.

7. Associate Radio Powr Savr™ occupancy sensors to the fixture (see **Association**).

**Figure B: Input Power Wiring**

For lamp wiring, consult the wiring diagram on the ballast.



## Association

### Lutron® Radio Powr Savr™ Wireless Occupancy Sensors Only

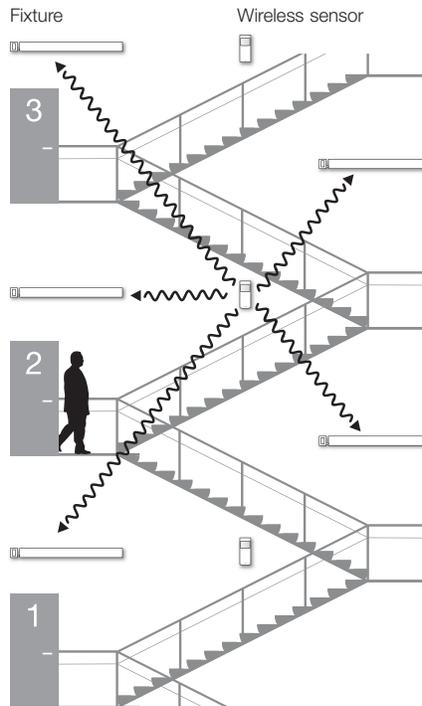
1. Identify which fixtures will have the same sensor associated to them. Typically, this will include all fixtures within the floor above and the floor below the entryway (see **Figure C**).

**Note:** Up to nine fixtures can have the same sensor associated to them, and up to nine sensors can be associated to a fixture within RF range.

2. Press and hold **T** on the wireless control device for approximately 6 seconds until the **ILs** (Indicator Lights) flash (see **Figure D**). Repeat this step for all fixtures identified in step 1.
  - Associate only one sensor at a time
  - Wireless control devices will automatically return to normal operation after 10 minutes of inactivity.
3. Press and hold the "💡" or "Lights Off" button on the sensor for approximately 6 seconds until the lens on the sensor flashes orange (see **Figure E**) to complete Association.

**Figure C:** Typical Layout

Example below shows associated occupancy sensors turning fixtures on to occupied light level (high end).



**Note:**

- RF range (sensor to fixture):
- 60 ft (18 m) line of sight
- 30 ft (9 m) through normal construction materials

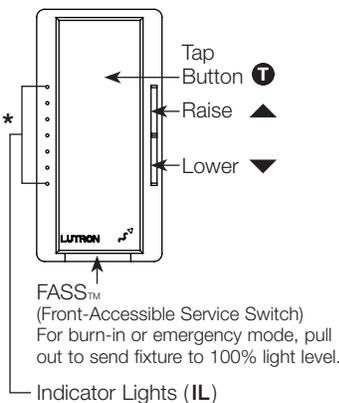
## Programming (Optional)

1. To adjust the desired occupied (high-end) and unoccupied (low-end) light levels of the fixture, enter programming mode on the wireless control device by pressing and holding the **T** and **▲** buttons for approximately 3 seconds until an **IL** starts flashing (see **Figure D**).
2. Use **▲** / **▼** to adjust the desired occupied (high-end) light level. Press **T** once to continue. Use **▲** / **▼** to adjust to the desired unoccupied (low-end) light level. **Figure F** shows the approximate light level increments, as displayed by the **ILs**.
3. Press **T** to save the light level settings and return the wireless control device to normal operation.
  - The wireless control device will automatically exit programming mode after 30 seconds if no buttons are pressed. The new settings will be saved only if all steps are completed.
  - During normal operation, the **ILs** on the wireless control device will not match **Figure F**.

**Notes:**

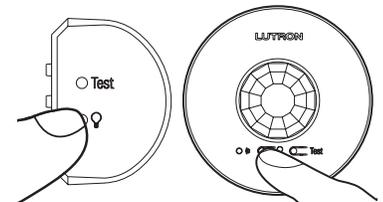
- Default settings for occupied/unoccupied light levels are dependent upon model purchased (50/10 or 80/20).
- Timeout is the time delay until lights go to low-end after no occupancy is detected. To change the timeout of the Radio Powr Savr™ occupancy sensor, see instruction sheet provided with sensor.

**Figure D:** Wireless Control Device



**Figure E:** Lights Off Button

Press and hold "💡" or "Lights Off" button.



**Figure F:** Wireless Control Device Display Chart

* IL Display	40%	50%	60%	70%	80%	90%	100%
Occupied (High-end)	●●●●○	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Unoccupied (Low-end)	○●●●●	○●●●●	○●●●●	○●●●●	○●●●●	○●●●●	○●●●●

Legend: ○ = on, ● = off

\*\*To achieve 10% unoccupied light level on a reduced wattage T8, the wireless control device requires field adjustment to 1% unoccupied light level.

## Return to Factory Settings

Performing these steps will disassociate all sensors that were previously associated to the fixture and return the occupied and unoccupied light levels to their factory settings.

1. On the wireless control device, quickly press **T** 3 times. Hold **T** on the 3rd press for approximately 3 seconds until the lights cycle up and down.
2. Release **T**, then immediately tap **T** 3 times quickly.
3. The lights will cycle up and down 3 times to verify that the device has been returned to factory settings.

## Troubleshooting

Symptoms	Solution(s)
The light is flickering, flashing, dropping out, or does not turn on.	<ul style="list-style-type: none"> <li>• Check all wires, lamp connections, and sockets to ensure that they are properly connected</li> <li>• Ensure that 120-277 V~ power is present and properly connected to the fixtures</li> <li>• Ensure ambient temperature is within the specified range</li> </ul>
Lights remain at one level and do not change.	<ul style="list-style-type: none"> <li>• Verify that all sensors are present and within RF range*</li> <li>• Press the "Ⓛ" or "Lights Off" button on the sensor to verify that association is still active and that fixture is functioning properly</li> <li>• Ensure that the FASS™ is pushed in</li> <li>• Pull the FASS™ out to verify that the fixture proceeds to occupied (high-end) light level within 10 seconds</li> </ul>
Sensor cannot be associated.	<ul style="list-style-type: none"> <li>• Ensure that 120-277 V~ power is present and properly connected to the fixtures</li> <li>• Ensure the wireless control device is in programming mode and all ILs are flashing</li> <li>• Consult troubleshooting section of sensor instruction sheet for more solutions, or visit <a href="http://www.lutron.com/rps">www.lutron.com/rps</a></li> </ul>
Wireless control device does not respond to button presses.	<ul style="list-style-type: none"> <li>• The wireless control device does not respond to manual control once a sensor is associated to it (except for re-association and programming)</li> <li>• Ensure that 120-277 V~ power is present and properly connected to the fixtures</li> <li>• Verify that ILs are illuminated on the wireless control device</li> <li>• Press the "Ⓛ" or "Lights Off" button on the sensor to verify that association is still active and that fixture is functioning properly</li> </ul>
Wireless control device has top and bottom ILs flashing.	<ul style="list-style-type: none"> <li>• Verify that all sensors are present and within RF range*</li> <li>• Pull out and push in FASS™ then press the "Ⓛ" or "Lights Off" button on each associated sensor to verify sensor battery life and association</li> </ul>
Sensor lens is flashing orange.	<ul style="list-style-type: none"> <li>• Sensor battery requires replacement</li> <li>• Sensor may be in test mode for coverage detection, press "Test" button on sensor to exit test mode</li> </ul>

\* If a sensor is missing or out of RF range for two hours, the fixtures will turn on to the occupied light level and the top and bottom ILs on the wireless control devices will flash. If a sensor requires replacement, all fixtures that it was associated to will need to be returned to factory settings. The new sensor and any overlapping sensors will need to be associated/re-associated to the appropriate fixtures.

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### Warranty:

[www.lutron.com/TechnicalDocumentLibrary/Warranty\\_CommercialSystems.pdf](http://www.lutron.com/TechnicalDocumentLibrary/Warranty_CommercialSystems.pdf)

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