

Stairwell Fixture Solution Installation Instructions

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 luminaire electrical systems and the hazards involved.
2. Fixtures are shipped with preset 80% occupied and 20% unoccupied light levels. Light levels may need to be field adjusted to meet local code (see **Programming**).
3. 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.

4. Emergency Ballast/Driver Options:
The emergency ballast/driver fixture provides a test button with an LED for identification and to verify power. Pressing the button will mimic an emergency power loss situation (illuminate one lamp for fluorescent only), verifying that the emergency ballast/driver is properly wired and charged.

Fluorescent Only

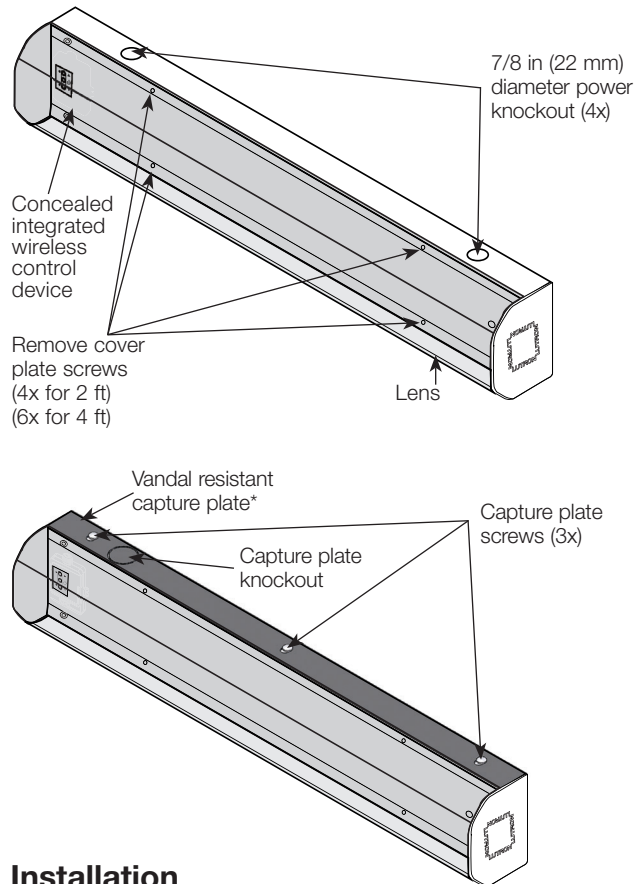
5. Pre-wired Lutron® 1% dimming ballast. Reduced-wattage T8 lamps are able to dim to a minimum of 10% with an EcoSystem® reduced-wattage dimming ballast. 32 W T8 ballasts will not operate with reduced-wattage lamps.
 6. Lamps are not included with this fixture. For optimal performance, install new lamps 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.
7. 0% to 90% humidity. Non-condensing, indoor/dry location use only. Ambient operating temperature 50 °F to 104 °F (10 °C to 40 °C)

LED Only

8. LEDs are integrated into the fixture. To ensure proper performance, avoid making contact with the LEDs.
9. 0% to 90% humidity. Non-condensing, indoor/dry location use only. Ambient operating temperature 32 °F to 104 °F (0 °C to 40 °C)

IMPORTANT INFORMATION Please Read Before Installing

Figure A: Installation Components

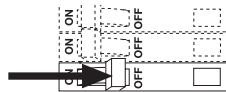


Installation



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 (if applicable), preserving the power wiring.
3. Carefully remove the lens:
 - A. For vandal resistant option, loosen capture plate screws with security bit and slide capture plate to rear of fixture.
 - B. Apply pressure to the center of the lens, removing one lens edge off the lip of the fixture.
 - C. Lift edge of lens and rotate away from the fixture to remove.
4. Remove cover plate screws, and remove cover plate from fixture (see **Figure A**).

Note: To bypass the end caps, the cover plate can flex slightly to ease its removal from the fixture.

* Available with the vandal resistant option only

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Installation (continued)

- Determine the appropriate mounting method for the new fixture. Use appropriate mounting hardware to support a 20 lb (4.54 kg) fixture; M4 (#8) screw recommended. Secure the fixture to the wall or ceiling.

Note: If using top or bottom knockouts with vandal resistant option, the capture plate can be removed and flipped to utilize all knockouts.

- Connect the Load Wires to the Ballast/Driver Connector (see **Figure B**). Connect Power Source to the Mains Disconnect.

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

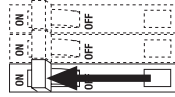
Fluorescent T5 Lamps Only: Emergency Ballast

- 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.

- Replace the cover plate using the screws removed in Step 4 (see **Figure A**).

Note: To bypass the end caps, the cover plate can flex slightly to ease installation into the fixture body.

- Restore power.



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

- Determine the locations of the wireless occupancy sensors that will be associated with the wireless control device (see **Figure C**). Be sure to mount the sensors where they will detect occupancy, not just movement of the door opening.

Notes:

- At a minimum, one sensor per entryway is required.
- Compatible with all Lutron® Radio Powr Savr™ wireless occupancy sensors (not included). Not compatible with Radio Powr Savr™ daylight sensors or Pico® wireless controls. See the instruction sheet included with your sensor for more information, or at www.lutron.com/rps.

- Associate sensors to fixtures (see **Association**).

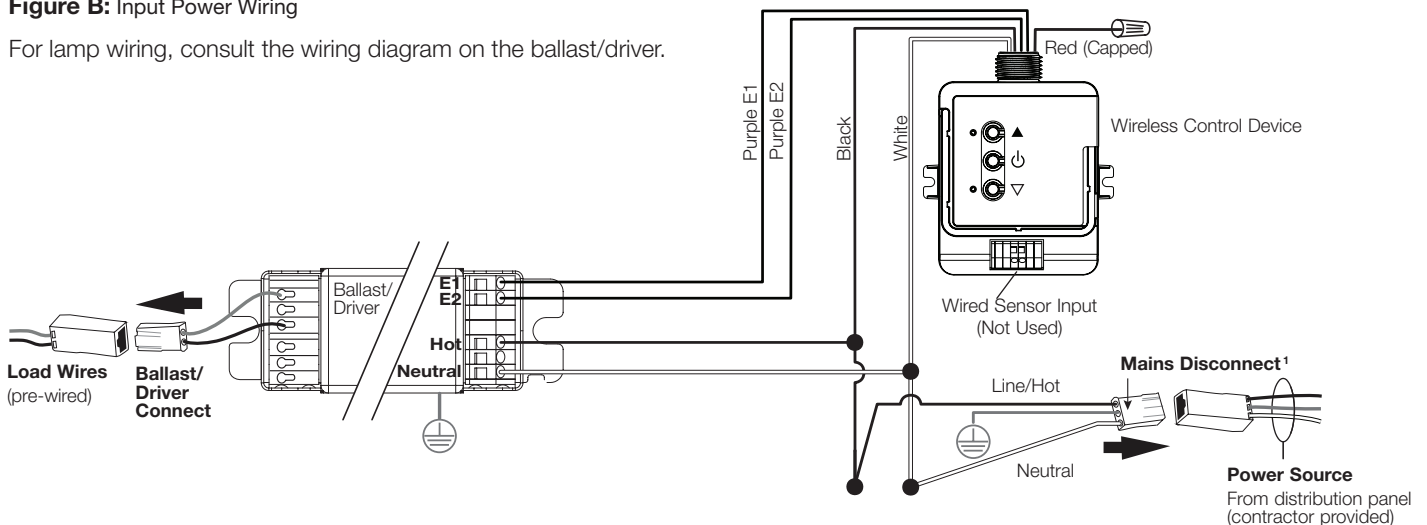
- If desired, change the default factory settings (sensor timeout, occupied light level, unoccupied light level). See **Programming**.

- Replace the lens onto the fixture.

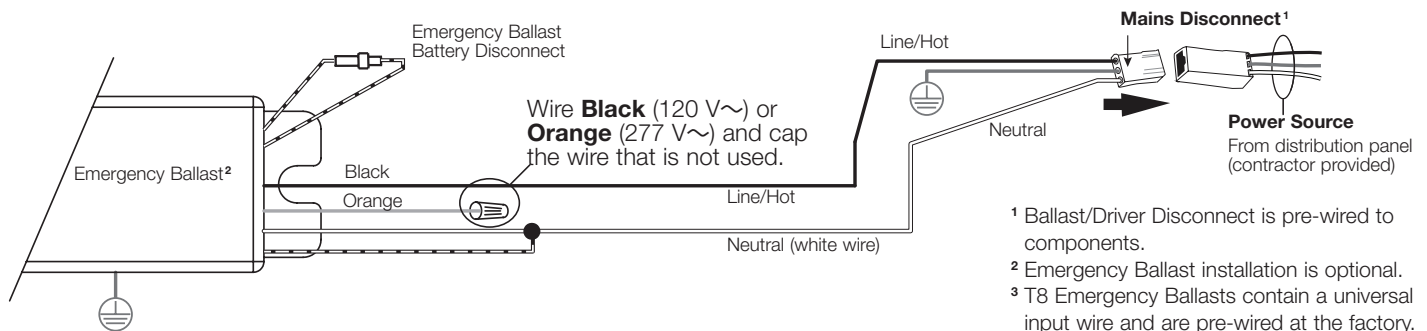
- For vandal resistant option, slide capture plate to front of fixture and secure capture plate screws using the security bit.

Figure B: Input Power Wiring

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



T5 Fluorescent Lamps with Emergency Ballast³



¹ Ballast/Driver Disconnect is pre-wired to components.

² Emergency Ballast installation is optional.

³ T8 Emergency Ballasts contain a universal input wire and are pre-wired at the factory.

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.


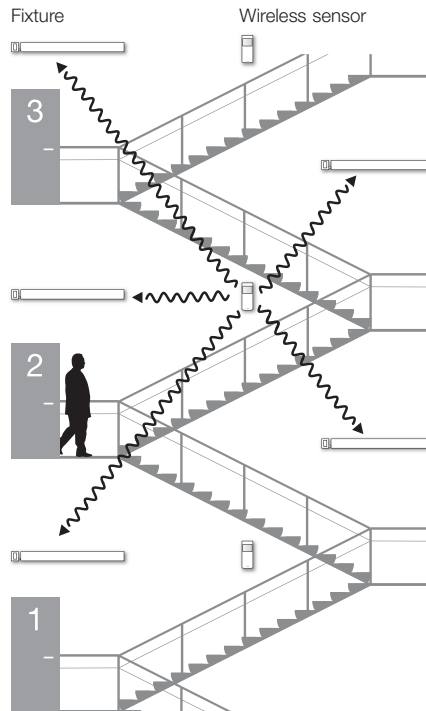
2. Press and hold the  button on the wireless control device for approximately 6 seconds until both Indicator Lights (IL) flash and the lights flash from high-end to low-end (see **Figure D**). Repeat this step for all fixtures identified in step 1.
 - Associate only one sensor at a time.
 - Multiple fixtures can be associated to one sensor simultaneously by putting all the desired fixtures into programming mode and completing step 3 below.
 - 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:

- 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) light level of the fixture, enter programming mode on the wireless control device by pressing and holding the  button for approximately 3 seconds until an IL starts flashing (see **Figure D**).
2. Use  /  to adjust the desired occupied (high-end) light level. Determine your existing level by counting the number of times the ILs blink based on the table in **Figure F**.
3. Press  button for 3 seconds to save the light level settings and return the wireless control device to normal operation.
4. Repeat Steps 1-3 for adjusting the unoccupied (low-end) light level, pressing and holding the  button to enter programming mode.
 - The wireless control device will automatically exit programming mode after 60 seconds if no buttons are pressed. The new settings will be saved only if all steps are completed.

Notes:

- Default setting for occupied/unoccupied light levels are set to 80/20 (occupied / unoccupied).
- 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 (1 minute timeout recommended).

Figure D: Wireless Control Device

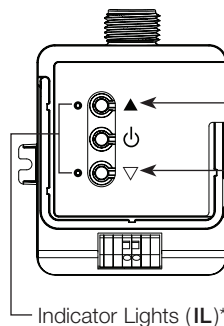


Figure E: Lights Off Button

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

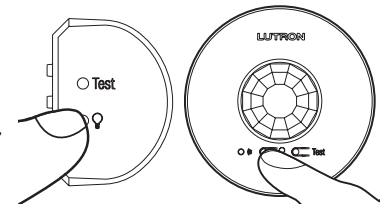






Figure F: Wireless Control Device Display Chart

* IL Display Indicates the number of times the ILs will flash to determine the occupied or unoccupied light level	1	2	3	4	5	6	7
Occupied (High-end)	40%	50%	60%	70%	80%	90%	100%
Unoccupied (Low-end)	1%**	5%	10%	15%	20%	30%	40%








**To achieve 10% unoccupied light level on a reduced wattage T8, the wireless control device requires field adjustment to 1% unoccupied light level. LEDs dim to 5% reliably.

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 the  button 3 times. Hold the  button on the 3rd press for approximately 3 seconds until the lights cycle up and down.
2. Release the  button, then immediately tap the  button 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"> • Check all wires, lamp connections, and sockets to ensure that they are properly connected • Ensure that 120-277 V~ power is present and properly connected to the fixtures • Ensure ambient temperature is within the specified range • Ensure that the digital link is connected from the control to the driver
Lights remain at one level and do not change.	<ul style="list-style-type: none"> • Verify that all sensors are present and within RF range* • Press the " or "Lights Off" button on the sensor to verify that association is still active and that fixture is functioning properly • Ensure that the digital link is connected from the control to the driver • If both LEDs are alternately flashing, the sensor may be missing or have a low battery • Both occupied and unoccupied levels are set to 40%; adjust the occupied and unoccupied light levels
Sensor cannot be associated.	<ul style="list-style-type: none"> • Ensure that 120-277 V~ power is present and properly connected to the driver and control • Ensure the wireless control device is in programming mode • Consult troubleshooting section of sensor instruction sheet for more solutions, or visit www.lutron.com/rps • The wireless control device is not compatible with Pico® remote controls or daylight sensors. Only compatible with Radio Powr Savr® occupancy sensors
Wireless control device does not respond to button presses.	<ul style="list-style-type: none"> • The  /  buttons are disabled in the wireless control device. The  /  are only used to adjust occupied and unoccupied light levels • Ensure that 120-277 V~ power is present and properly connected to the fixtures • Verify that ILs are illuminated on the wireless control device • Press the " or "Lights Off" button on the sensor to verify that association is still active and that fixture is functioning properly • Ensure that the digital link is connected from the control to the driver
Wireless control device has top and bottom IL flashing (toggle back and forth).	<ul style="list-style-type: none"> • Verify that all sensors are present and within RF range* • Press the " or "Lights Off" button on each associated sensor to verify sensor battery life and association
Sensor lens is flashing orange.	<ul style="list-style-type: none"> • Sensor battery requires replacement • Sensor may be in test mode for coverage detection, press "Test" button on sensor to exit test mode

* 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 IL 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/3683260_Digital%20Luminaires%20Limited%20Warranty.pdf

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