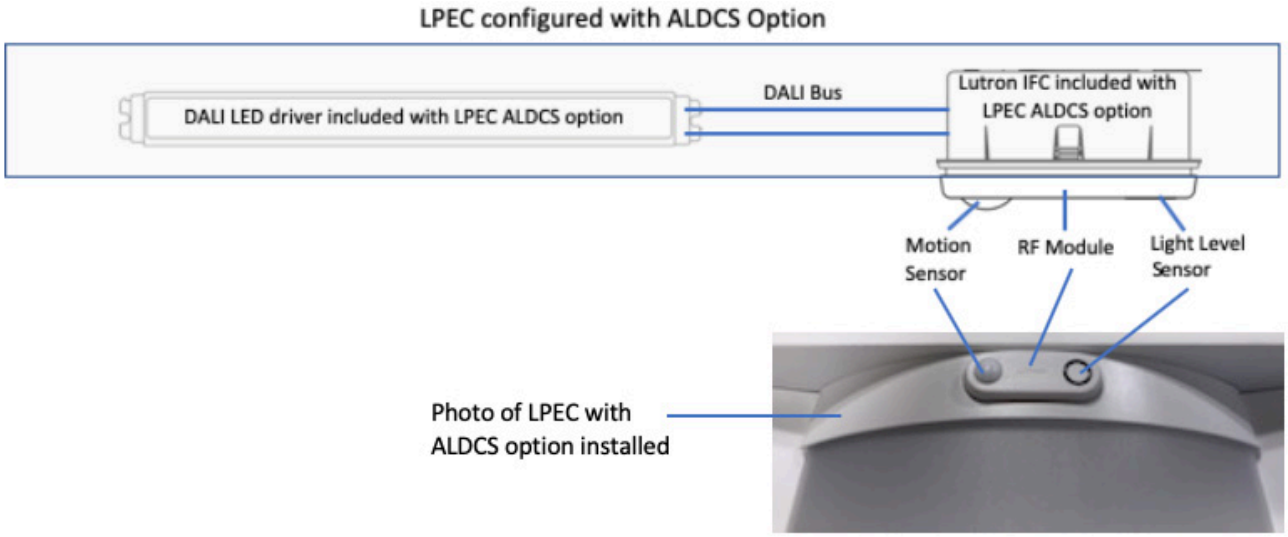
LPEC with AIRLINK ALDC and ALDCS INTEGRATED FIXTURE CONTROL
FAQs

What is included with the ALDCS option?

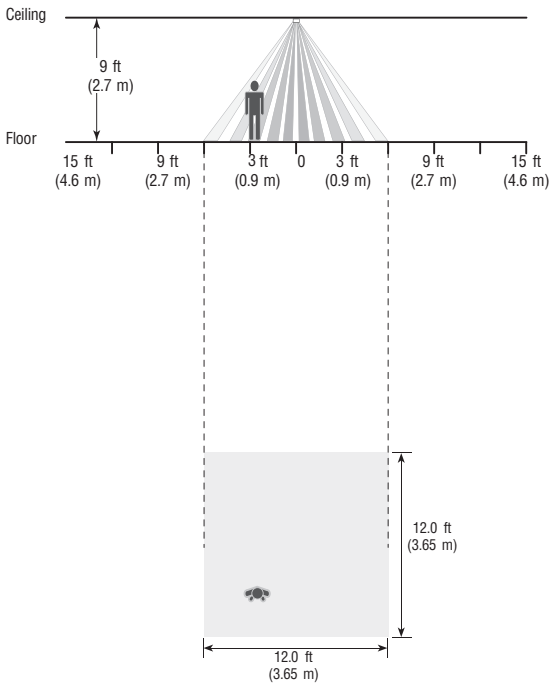
LSI's LPEC LED specification troffer with the ALDCS option provides our customers with a Lutron IFC, factory installed in a custom plastic injection molded sensor bracket that has a streamlined and attractive appearance. In addition, LSI factory wires the Lutron IFC to the LPEC DALI LED driver. The DALI LED driver provides power over the DALI wiring to the Lutron IFC so no additional power supply is required.

The Lutron IFC provides a passive infrared motion sensor, daylight sensor and radio frequency module in a small, compact, stylish design. Two wires from the Lutron IFC send control signals to the DALI LED driver to turn lights on, off or dim from a Lutron Clear Connect wireless device.



How does the motion sensor work on an LPEC ALDCS option?

The LPEC with ALDCS option uses Lutron's XCT occupancy sensing technology for a 360° field-of-view coverage pattern. The XCT technology uses sophisticated signal processing to maximize the performance of the motion sensor, guaranteeing the most accurate sensing technology for small movements like flipping pages of a book or minimal movements like typing on a keyboard.



MAJOR MOTION SENSOR COVERAGE CHART	
Ceiling Height	**Major Motion Coverage Area (ft^2)***
8 ft. (2.4 m)	114
9 ft. (2.7 m)	144
10 ft. (3.0 m)	178
12 ft. (3.74 m)	256

Major Motion: Movement of a person entering or passing through an area

Minor Motion: Movement of a person occupying an area and engaging in small activities (e.g. reaching for a telephone, turning the pages of a book, picking up a coffee cup, etc.)

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How does daylight harvesting work on an LPEC ALDCS option?

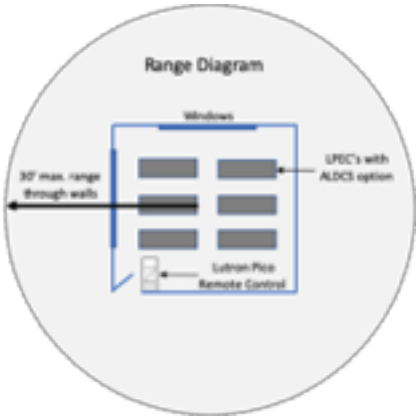
The LPEC with ALDCS option provides a daylight sensor to automatically adjust the LPEC light output based on the amount of ambient daylight present in the area where the LPEC is installed. This daylight sensor provides simple, out-of-the-box automatic daylight control. It is designed to give a linear response to changes in light level. The daylight sensor detects ambient light level changes from 0-150 foot-candles (FC) so it is designed for indoor use only, it is not suitable for outdoor use where FC levels exceed 150 FC.

How does the wireless control work on an LPEC ALDCS option?

The LPEC with ALDCS option utilizes Clear Connect Radio Frequency (RF) wireless technology operating within 431.0–437.0 MHz (U.S.A., Canada, Mexico) to communicate with other Lutron Clear Connect devices including the Lutron Vive hub. Clear Connect is a wireless protocol designed for lighting control that utilizes a quiet RF band and scalable system architecture for high performance wireless control.

What is the wireless transmission range for the LPEC ALDCS option?

The LPEC with ALDCS option must be located within 60 ft (18 m) line of sight or 30 ft (9 m) through walls from other Lutron Clear Connect devices that will be controlling the LPEC. When Lutron Vive hubs are used, the LPEC must be located within 71 ft (22 m) of the Vive hub.



Does a 0-10vdc LED driver come with the LPEC ALDCS option?

No. A DALI LED is provided with the LPEC ALDCS option. The Lutron IFC is a DALI based device so it will not work directly with a 0-10vdc LED driver. The DALI LED driver provided with the LPEC ALDCS option powers the DALI bus so a separate power supply is not required to power the Lutron IFC.

Can the LPEC with ALDCS option communicate with other wireless controls?

No. The LPEC with ALDCS option will only communicate with Lutron Vive systems or other Lutron devices utilizing Lutron Clear Connect RF wireless technology.

Are there any installation limitations to the LPEC with ALDCS option?

Yes. To ensure optimal operation, the LPEC should be mounted at least 4 ft (1.2 m) away from HVAC vents, intakes, and light bulbs that are below the ceiling line.

Devices emitting Radio Frequency (RF) energy can affect the performance of the Lutron IFC. To ensure optimal operation, LPEC with ALDCS option should be mounted at least 4 ft (1.2 m) away from devices that emit radio waves (e.g., microwave ovens, wireless routers, other wireless devices).

To detect motion, the Lutron IFC requires line-of-sight of room occupants. The sensor must have an unobstructed view of the room. Do NOT mount LPEC behind or near tall cabinets, shelves, hanging fixtures, ceiling fans, etc. The sensor cannot see through glass objects (e.g., patio or shower doors).

The performance of the Lutron IFC motion 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.

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