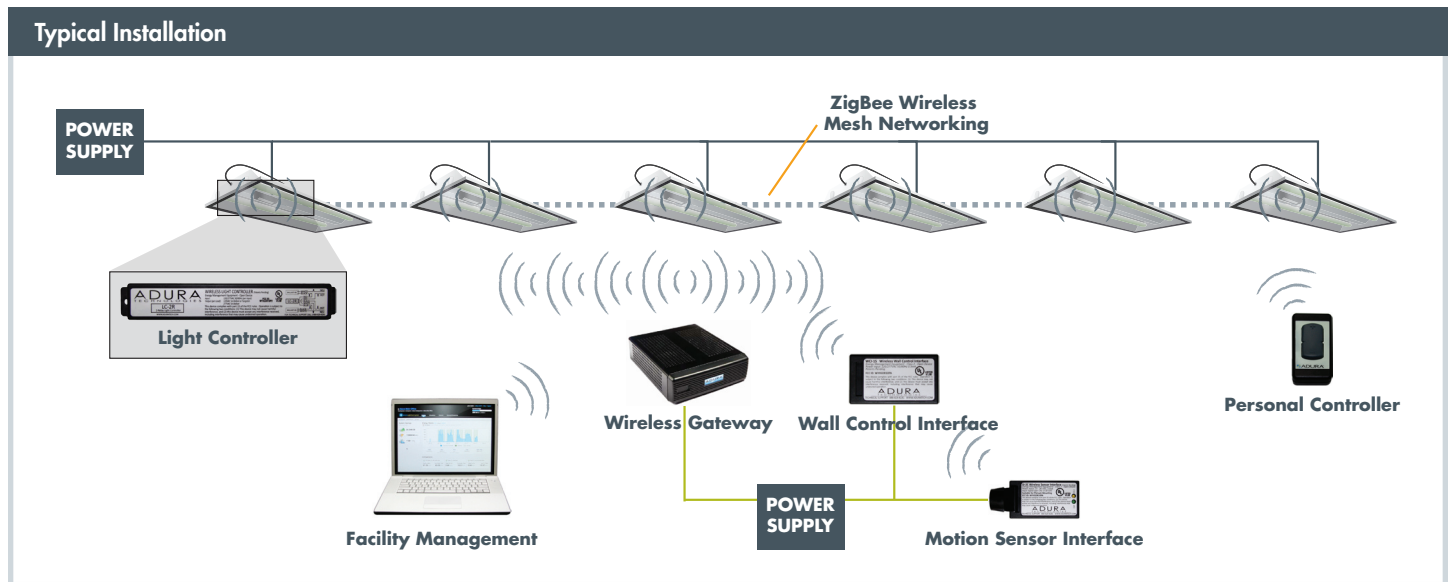


WIRELESS INTEGRATED PHOTOSENSOR AND MOTION SENSOR

Lighting controls systems are readily available in the market that turn lights off when spaces are unoccupied or when sufficient daylight is available. However, installing these systems involves new wiring or rewiring and can be an expensive proposition to retrofit existing buildings.

Aura Technologies, in partnership with the California Lighting Technology Center, developed a wireless integrated photosensor and motion sensor system that communicates wirelessly through radio frequency to circumvent this issue.



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Lighting California's Future is a \$3.7 million California Energy Research Commission Public Interest Energy Research (PIER) Program focused on lighting technologies for buildings. The program, which is managed by Architectural Energy Corporation, includes nine technical projects with a cross-cutting market connection program.

The goal of LCF is to meet California's growing needs for energy efficiency and demand response by creating and introducing energy-efficient, advanced lighting technologies.

Features:

- Reduces installation costs because most components are wireless
- Multiple possible control scenarios, including intelligent step dimming
- Integrate daylighting and occupancy controls to provide greatest energy savings
- Compatible with any ballast-based or incandescent lighting system
- Individually addressable Light Controllers update data and accept commands in real time
- Web-based application provides monitoring, scheduling, and reporting
- Up to 60% average energy savings in corridor applications

Applications:

Commercial buildings, warehouse facilities, parking garages, schools, and other spaces that could benefit from wireless lighting controls

Collaborators:

Public Interest Energy Research Program
Architectural Energy Corporation
California Lighting Technology Center, UC Davis
Aura Technologies

Current Status:

Commercially available. CLTC continues demonstrations of the system as part of the State Partnership for Energy Efficiency Demonstrations (SPEED) Program. Upcoming demonstration projects are slated for Mrak Hall and Bainer Hall on the UC Davis campus.

