



# Save Energy With Campus-Wide Solutions

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# Campus-Wide Solutions

Your college or university campus, like many of today's higher ed campuses, is probably similar to a small city, meeting the needs of students and faculty 24/7.

But as you're meeting those needs, you're also restructuring your campus master and sustainability plans to help control costs.

Lutron's Campus-Wide Solutions program can help meet the cost-saving goals outlined in those plans. Our solutions reduce lighting energy usage while creating comfortable learning and work environments.

To demonstrate the benefits of the program, we've put together solutions for two of the most highly used areas on campus: classrooms and hallways.



Classroom Solution



Hallway Solution

**Vertical markets on campus that would benefit from Lutron lighting solutions**

- Education
- Athletics/Entertainment
- Student Housing/Hotels
- Food Services/Restaurants
- Retail
- Healthcare/Hospitals
- Fitness/Wellness
- Public Safety
- Technology
- New Business Incubators/Entrepreneurship
- Research/Development
- Manufacturing (grants)
- Private/Government Collaboration

**Both solutions are:**

- Easy to retrofit, which reduces labor costs
- Easy to use
- Reliable

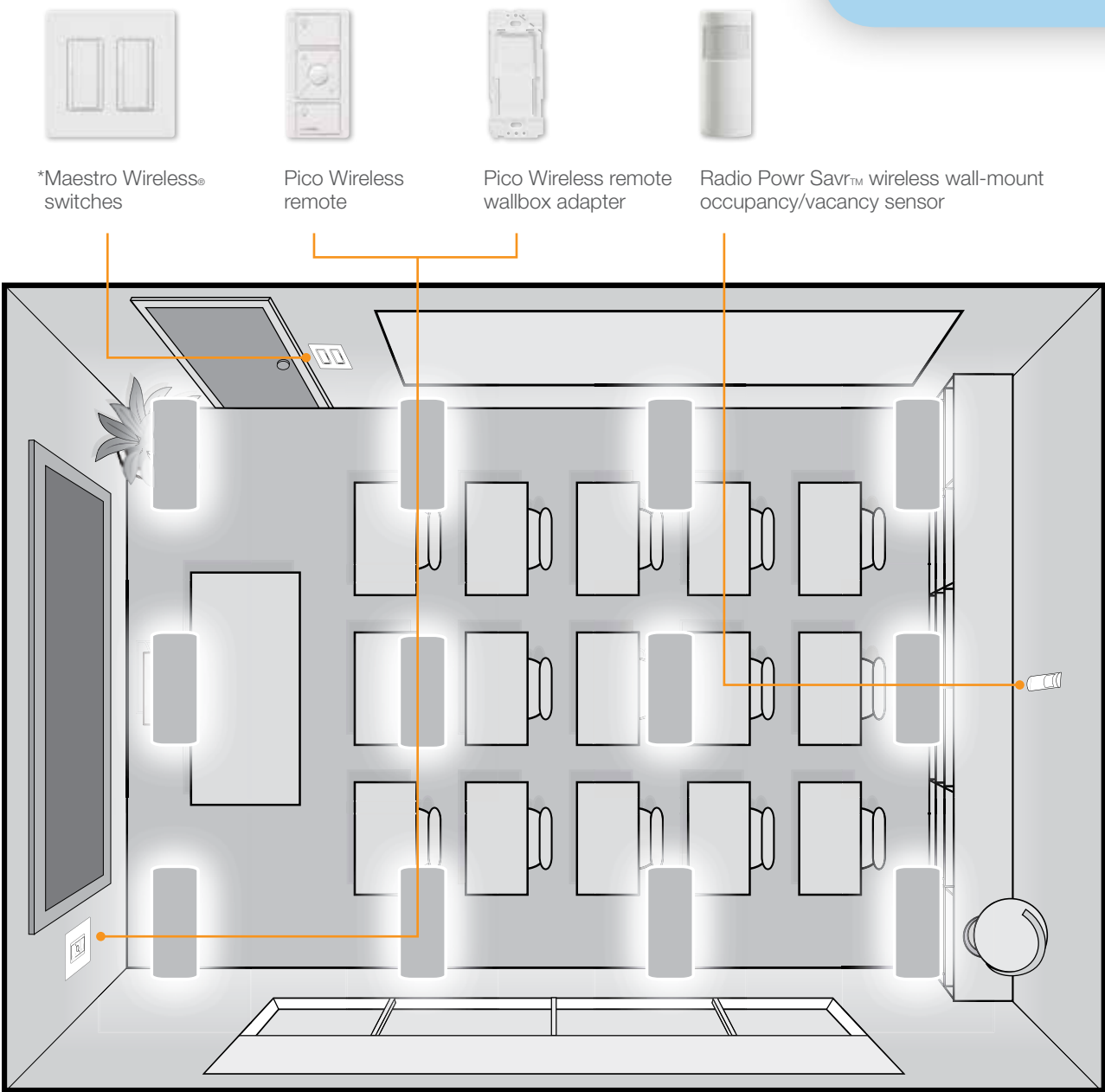


# Campus-Wide Solutions

## Classroom Solution

Lights automatically turn on when you walk into a room and off when the room is vacant.

**Energy Savings**  
Occupancy sensors can save 45%<sup>†</sup> of lighting energy use in classrooms.

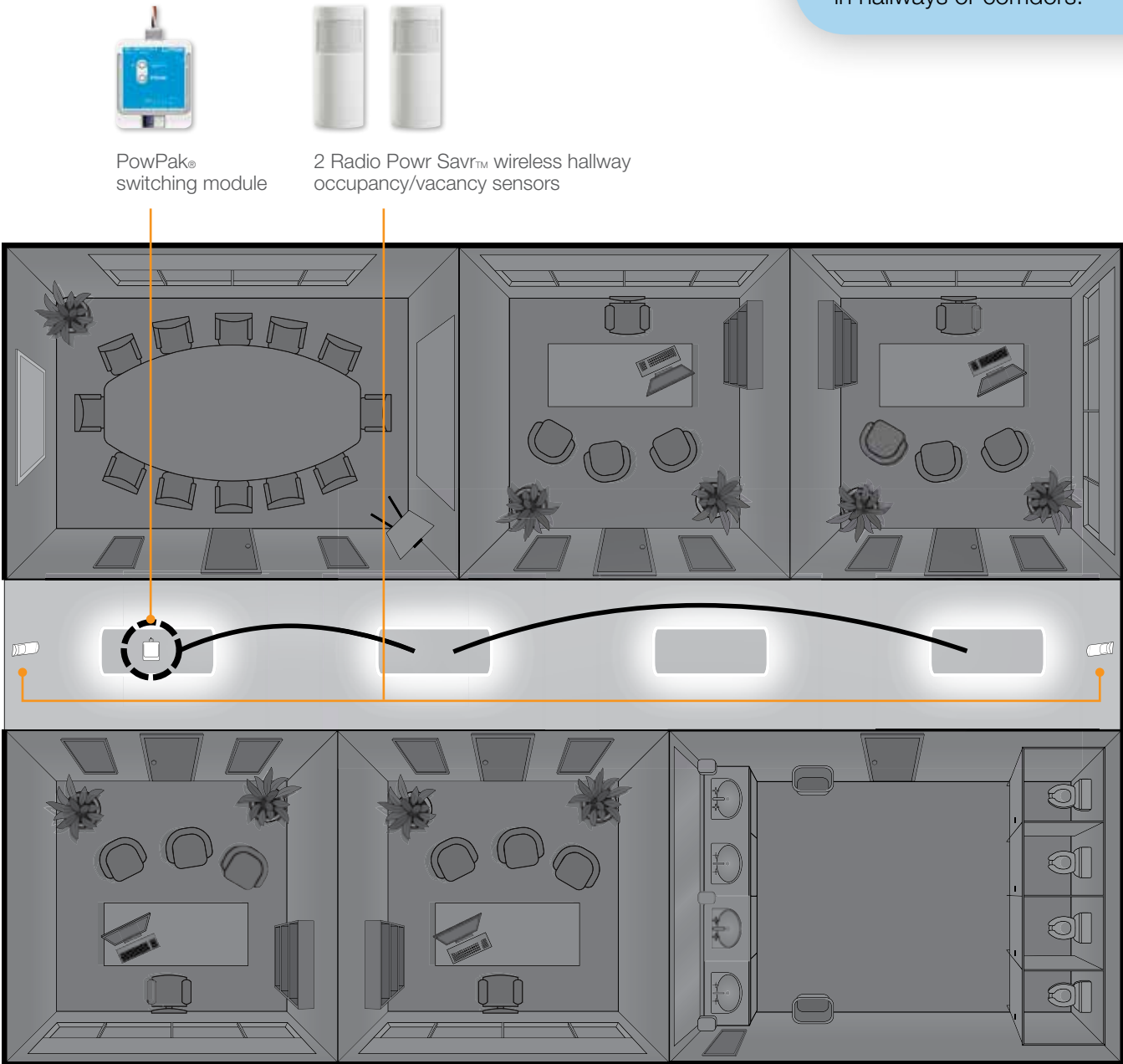


<sup>†</sup>Visit [lutron.com/references](http://lutron.com/references) for more information

## Hallway Solution

Lights automatically turn on when you walk into a hallway and off when the hallway or corridor is vacant.

**Energy Savings**  
Save 50%<sup>†</sup> lighting energy using Lutron occupancy sensors in hallways or corridors.



<sup>†</sup>Visit [lutron.com/references](http://lutron.com/references) for more information

\*works with 120v and 277v loads

# Why Lutron?

## Clear Connect® wireless technology

All Lutron wireless products utilize Lutron patented Clear Connect wireless technology, which operates in an uncongested radio frequency band. The result is ultra-reliable communication and smooth dimming performance with no flicker or delay. Other devices will not interfere with the Lutron lighting control system.

## Clear Connect

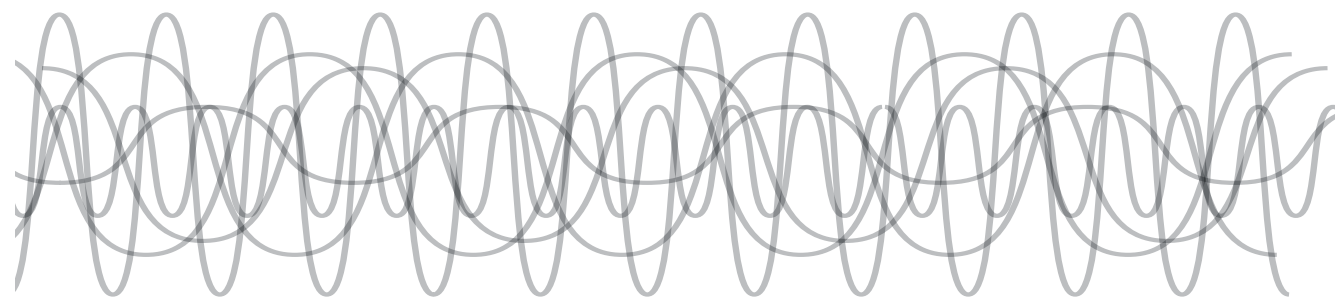


### 434 MHz: Lutron Clear Connect wireless technology

Lutron devices operate in an uncongested frequency band, providing ultra-reliable operation



## “Other” frequency bands’



### 2.4 GHz: Cordless phones | Bluetooth devices | Wireless security cameras

Other devices operate in congested frequency bands, creating a high potential for wireless interference

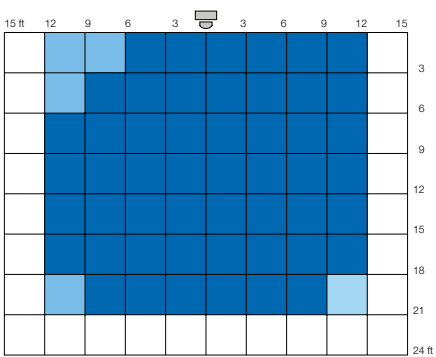
## XCT™ technology – the Lutron advantage

Lutron XCT technology measures occupancy in a whole new way, dramatically improving the performance of Lutron passive infrared (PIR) sensors.

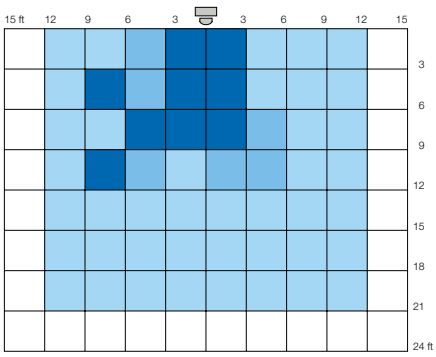
Traditional PIR sensors can experience performance issues resulting from insufficient sensitivity settings. XCT technology enables the Lutron PIR sensor to accurately distinguish between background noise and motion. This enables the sensor to detect occupancy based solely on actual movement in the space. Sensitivity adjustments are unnecessary.

This breakthrough technology recognizes noise as being present in the measurement, enabling the sensor to retain high sensitivity to fine motion (like turning the page of a book). As with standard PIR sensors, the Lutron sensor requires an unobstructed line-of-sight for occupancy detection.

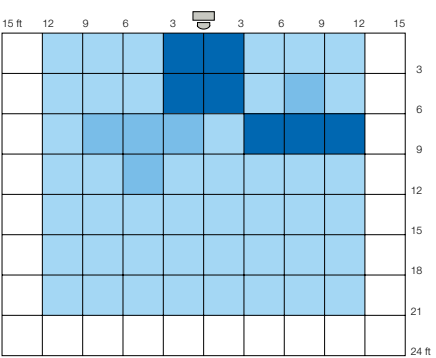
In accordance with NEMA testing standards, Lutron performed minor-motion coverage testing on the Maestro PIR occupancy sensor with XCT technology, and on four additional PIR occupancy sensors manufactured by others. The graphs clearly demonstrate that sensors with XCT technology have the superior ability to detect minor motion.



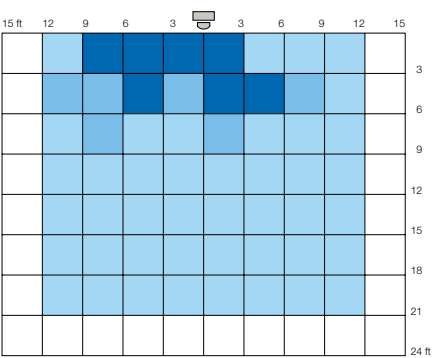
Lutron Maestro® occupancy sensor



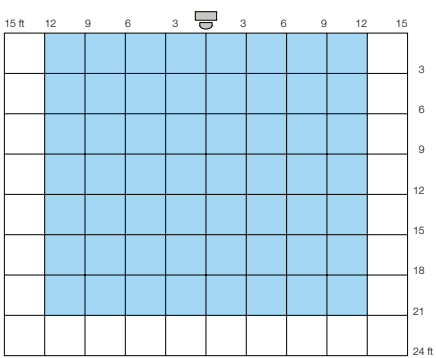
Company 1 occupancy sensor



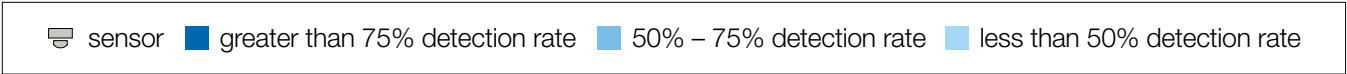
Company 2 occupancy sensor



Company 3 occupancy sensor



Company 4 occupancy sensor





Simple and scalable **lighting control**

Introducing a revolutionary wireless lighting control solution for new and existing spaces on college/university campuses.

Wireless controls and sensors



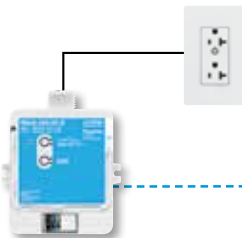
Remotes



Occupancy and daylight sensors



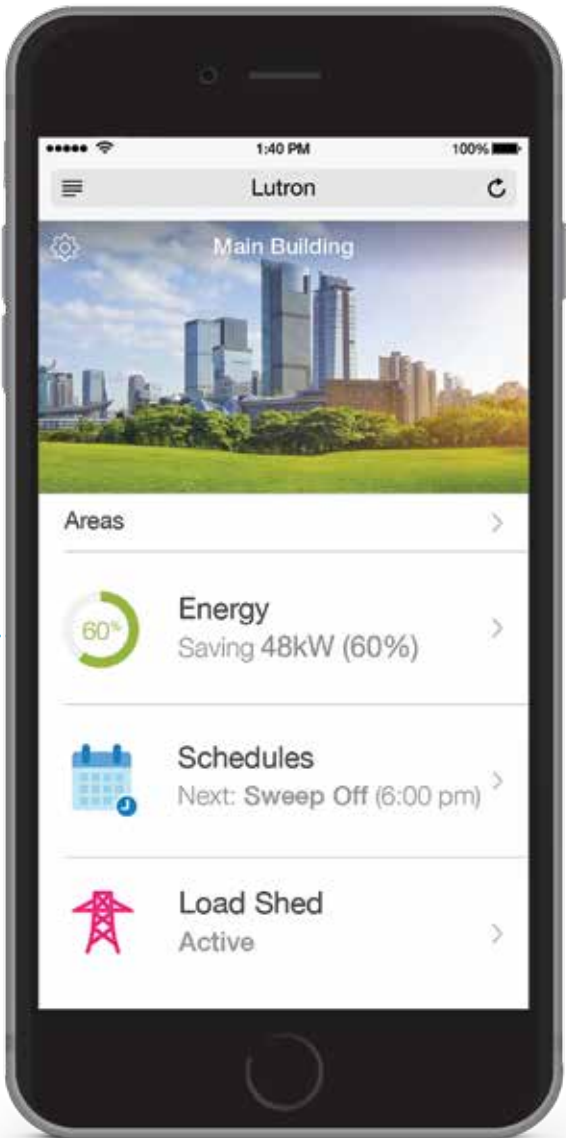
Lighting controllers



Plug load controllers



Simple to use software



Vive Vue™ software

DESIGN



The flexibility you need to design your building

INSTALL



Wireless simplifies installation and reduces callbacks

MAINTAIN



Maximize productivity and building performance

Communication protocols



Communicate via RF to control components



Communicate via Wi-Fi to smart devices



Communicate with wired Ethernet to Vive hub



