

0–10V Single room solutions

Standalone



Diva 0–10V dimmer



Nova T☆ 0–10V dimmer



Maestro 0–10V
dimmer sensor

Wireless



PowPak wireless fixture
controller and PowPak
fixture sensor



PowPak dimming module
with 0–10V control



Maestro Wireless
0-10V dimmer
sensor



Radio Powr Savr occupancy
and daylight sensors, and
Pico wireless remote

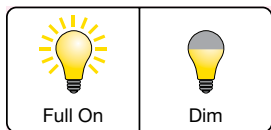
0–10V Single room solutions

0–10V is a common control protocol that you can find across the lighting industry. Originally developed for fluorescent ballast control, 0-10V has become one of the most common control protocols in the growing LED market.

Lutron offers a variety of 0-10V control options to give you both high-quality dimming capabilities and additional opportunities to save energy.

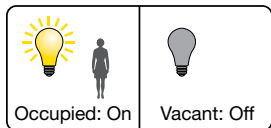
These control options allow you to take advantage of multiple energy-saving strategies.

Lutron energy-saving strategies



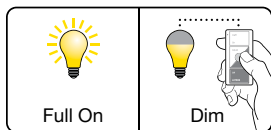
Dimming

Gives occupants the ability to set the light levels.



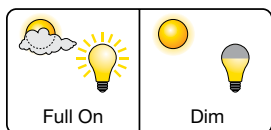
Occupancy/vacancy sensing

Turns lights on when occupants are in a space and dims lights to a low level or turns lights off when they vacate the space.



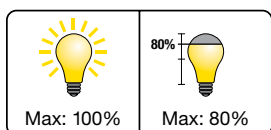
Personal dimming control

Gives occupants the ability to set the light levels.



Daylight harvesting

Dims electric light when daylight is available to light the space.



High-end trim

Sets the maximum light level based on customer requirements in each space.

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Individual fixture dimming, sensing, personal control, and daylight harvesting



PowPak wireless fixture controller with
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Divia 0–10V dimmer

- 0–10V dimmer for LED and fluorescent fixtures
 - Two models available:
- DVSTV
 - Controls 120–277 V without a power pack
 - Provides 3-way preset switching functionality
- DDTV
 - Requires a power pack
 - Use with a power pack for Class 2 installations, with wired occupancy sensors, for 347 V operation, and for loads greater than 8 A

Models

DVSTV (gloss)
DVSCSTV (Satin Colors)
DDTV (gloss)
DVSCTV (Satin Colors)

Voltage

- DVSTV/DVSCSTV
 - 8 A, 120–277 V
- DDTV/DVSCTV
 - 16 A with PP-DV, 120–277 V
 - 16 A with PP-347, 347 V

Ideal for private offices and conference rooms

The Lutron Advantage

- Patented technology extends relay life to 10 years
- Low-end and high-end trim in one product
- No derating for 277 V installations
- No neutral required

Energy-saving strategies

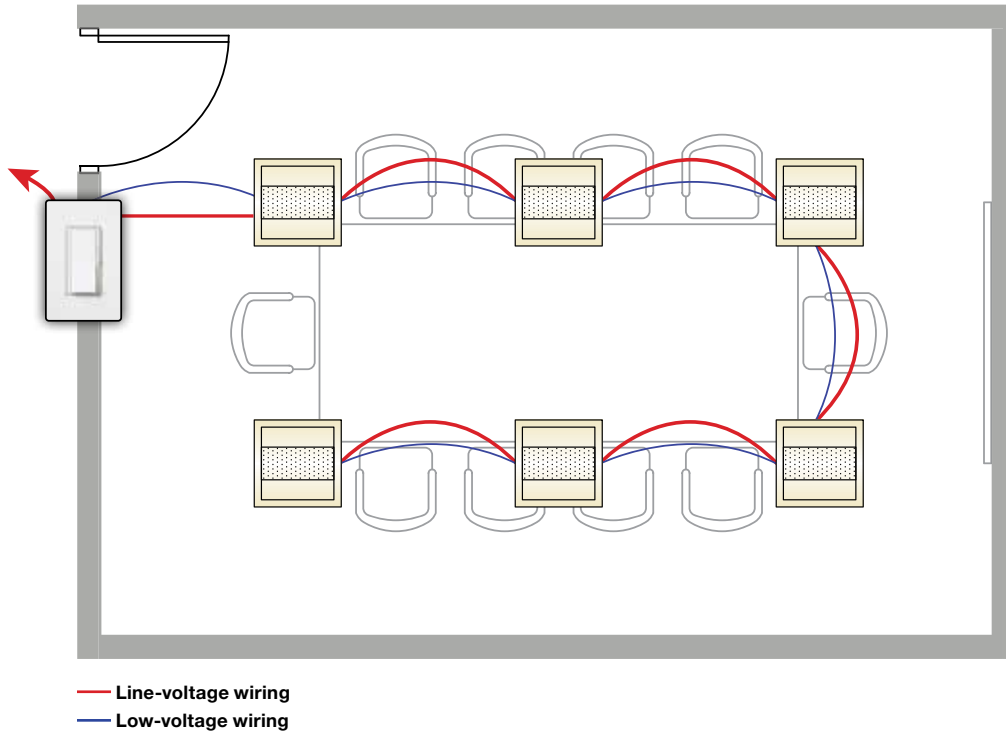
- Dimming
- High-end trim

Codes met

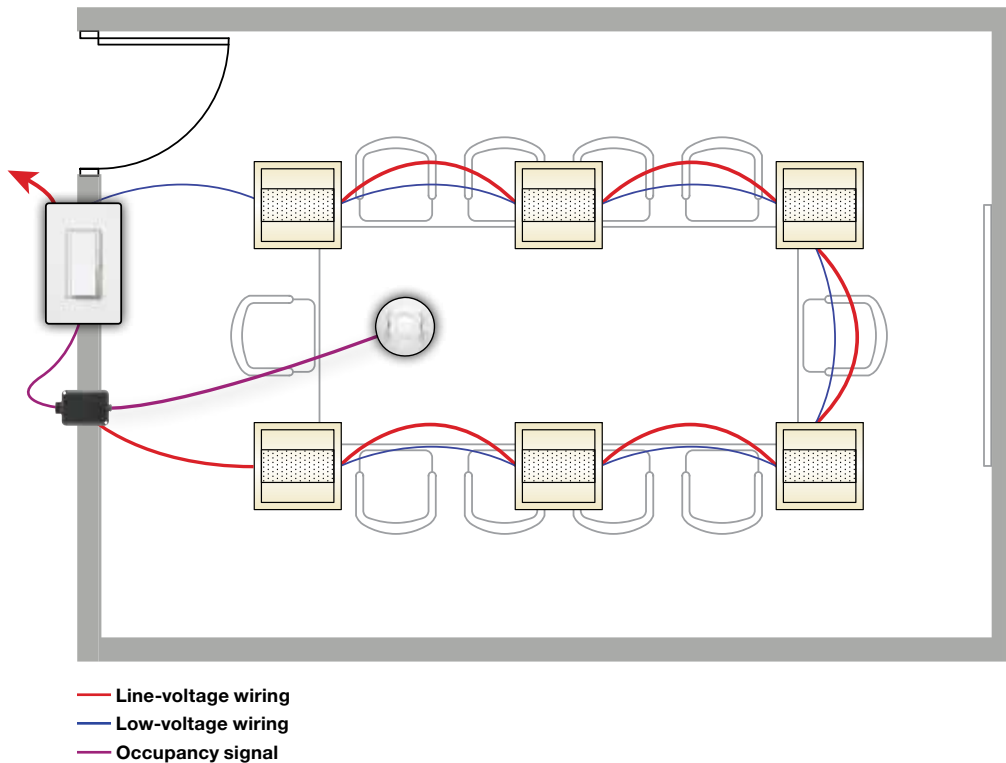
- Automatic shut-off with wired occupancy sensors through a power pack
- Area control
- Multi-level lighting control

Application examples: Conference room

Without power pack (DVSTV Only)



With power pack (DVTV Only)



Dimming



Nova T☆ 0–10V dimmer

- 0–10V spec grade dimmer that can switch line voltage for fluorescent ballasts and LED drivers
- Controls 120–277V without a power pack
- Power pack required for Class 2 installations, for 347V operation (Canada), and for loads greater than 8
- Works with wired occupancy/vacancy sensors with the addition of the respective power pack

Models

NTSTV-DV

Voltage

- 8A, 120–277V; up to 16A with the addition of a power pack (PP-DV)
- 16 A, 347V (with power pack PP-347H)

Ideal for private offices, conference rooms, and hospitals

The Lutron Advantage

- Spec grade with heavy-duty components for surge protection and long life
- Low-end and high-end trim in one product
- No derating for 277V installations
- No neutral required

Energy-saving strategies

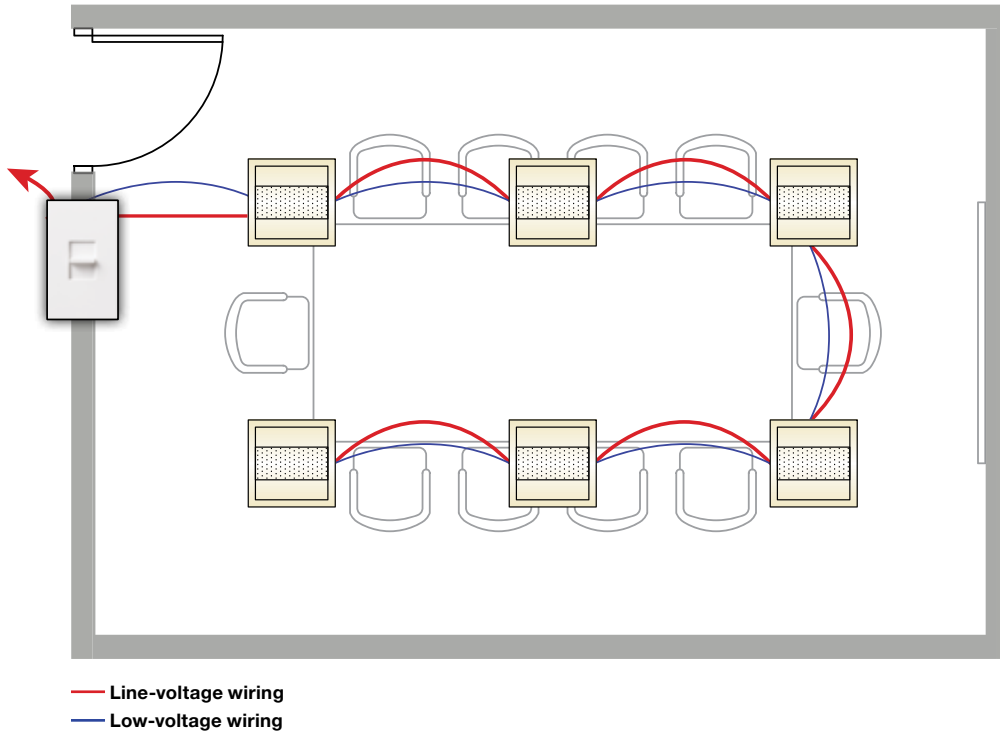
- Dimming
- High-end trim
- Occupancy sensing

Codes met

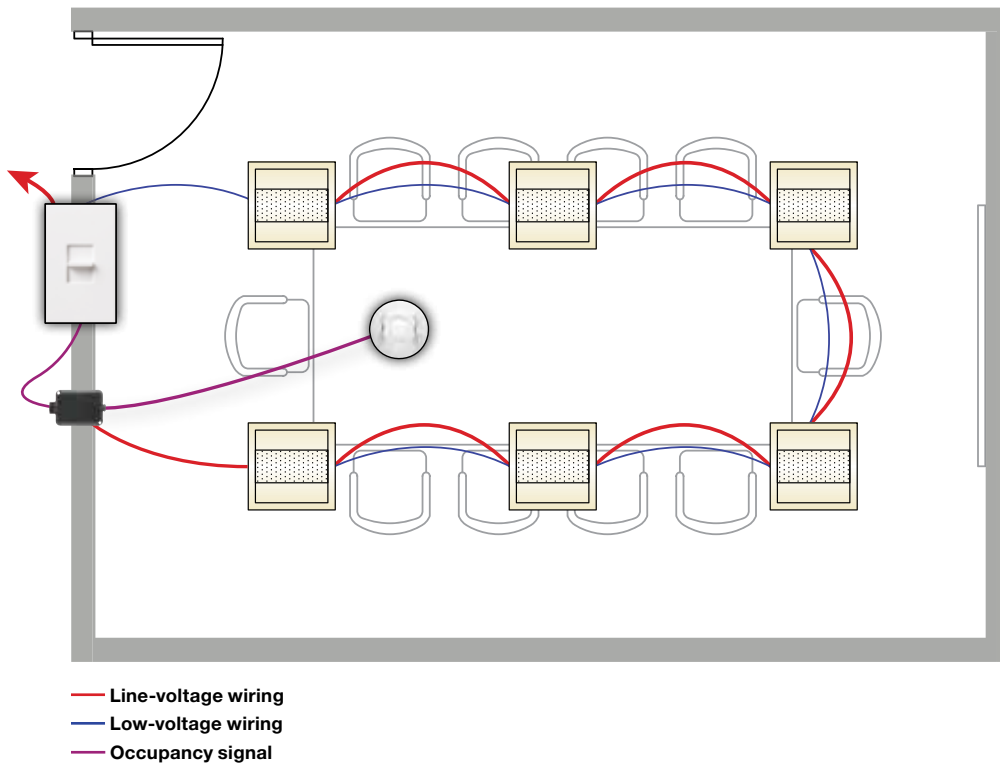
- Automatic shut-off with wired occupancy sensors through a power pack
- Area control
- Multi-level lighting control

Application examples: Conference room

Without power pack



With power pack



Dimming and sensing



Maestro 0–10V dimmer sensor

- Dims 0–10V LED drivers or electronic fluorescent ballasts
- XCT PIR sensing
- Single pole or 3-way with Maestro companion or mechanical switch
- Neutral connection optional
- Sinking control for sourcing fixtures
- High- and low-end trim

Models

MS-Z101 (occupancy/vacancy)

MS-Z101-V (vacancy only)

Voltage

8 A, 120–277 V

Ideal for small spaces such as private offices, small classrooms, and equipment rooms

The Lutron Advantage

- Miswire and load incompatibility alert — lens will flash red if control is miswired or connected to an incompatible fixture
- Optimized dimming performance with selectable dimming curve and smooth fade to on and fade to off
- Lutron's XCT sensing technology
- Smart ambient light detection learns users preferred light level and keeps lights off when sufficient daylight is available
- Lutron's Adaptive Zero-Cross Switching extends relay lifetime

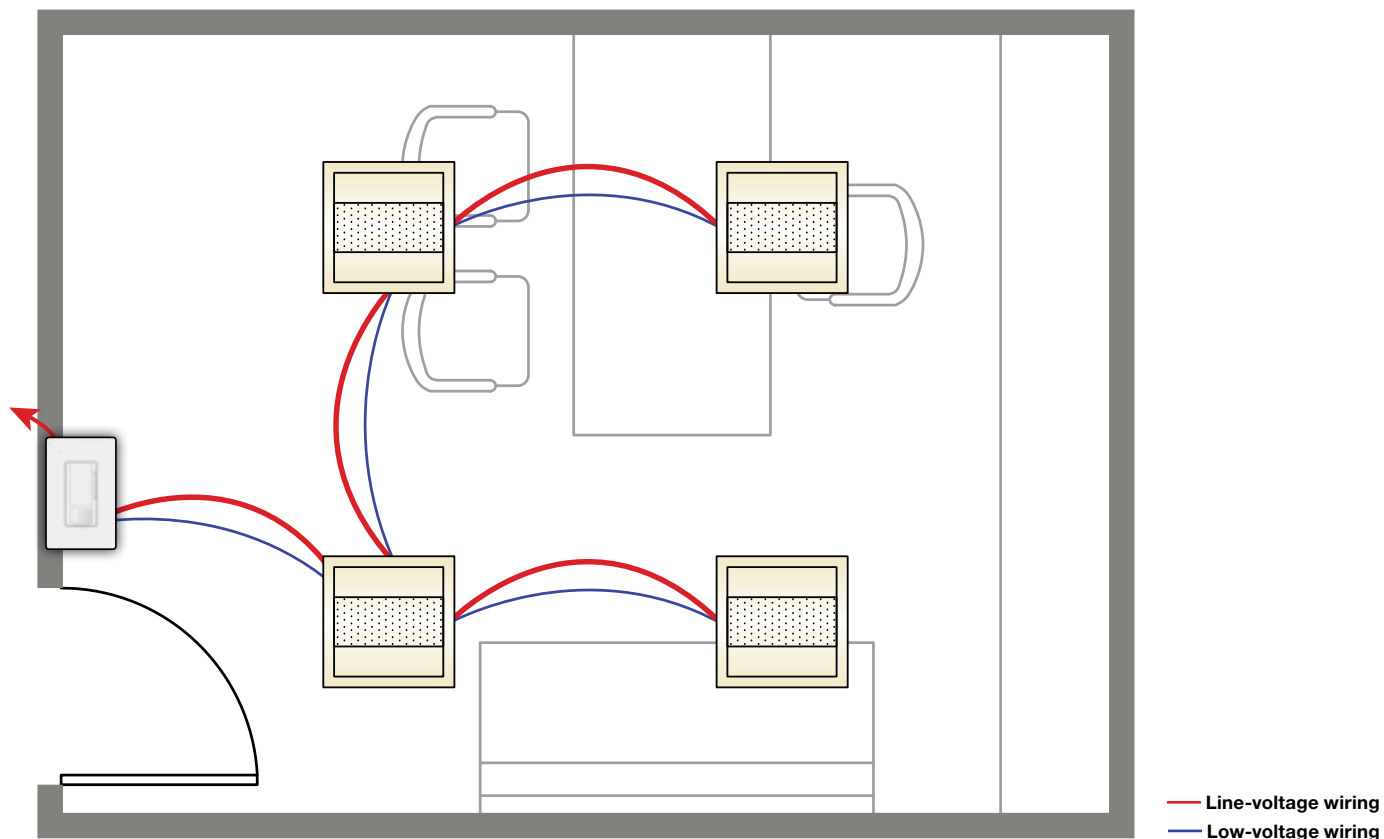
Energy-saving strategies

- Occupancy/vacancy sensing
- Dimming
- High-end trim

Codes met

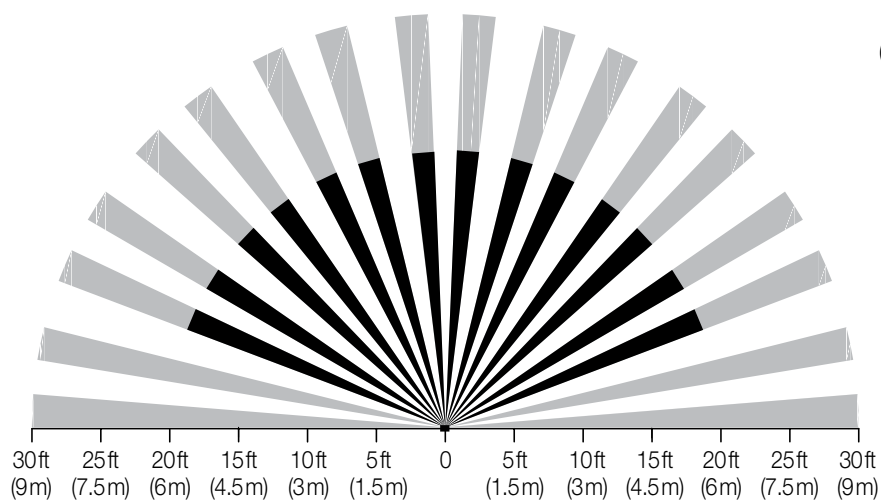
- Automatic shut-off
- Multi-level lighting control
- Area control

Application example: Private office

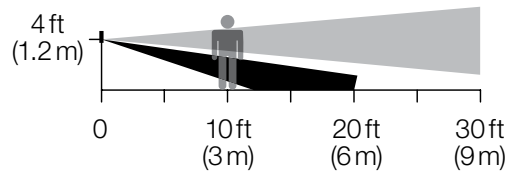


Coverage patterns

Horizontal Beam Diagram



Vertical Beam Diagram



- Major motion coverage (900 sq ft)
- Minor motion coverage (400 sq ft)

Dimming, sensing, personal control, and daylight harvesting (j-box)



PowPak dimming module with 0–10V control

- Junction-box mounted dimming module that controls 0–10V fixtures
- Auto adapts to sink/source fixtures

Models

RMJS-8T-DV-B (connector)

RMJS-8TN-DV-B (flying leads)

Voltage

8A, 120–277V

Ideal for larger conference rooms, larger classrooms, and training rooms

The PowPak dimming module with 0–10V control is a part of the Vive wireless solution, which includes:

- Radio Powr Savr wireless occupancy/vacancy sensors
- Radio Powr Savr daylight sensors
- Pico wireless remotes
- Maestro Wireless dimmers, switches, and sensors
- PowPak dimming and switching modules
- PowPak receptacle control modules
- Individual wireless fixture controllers

The Lutron Advantage

- Push-button setup —utilizes simple button-press programming to select and associate wireless devices
- Proven technology means no callbacks —uses Lutron's XCT sensing technology (Radio Powr Savr sensors) and Clear Connect RF wireless communication
- Add/relocate wireless remotes and sensors at any time with no new wiring

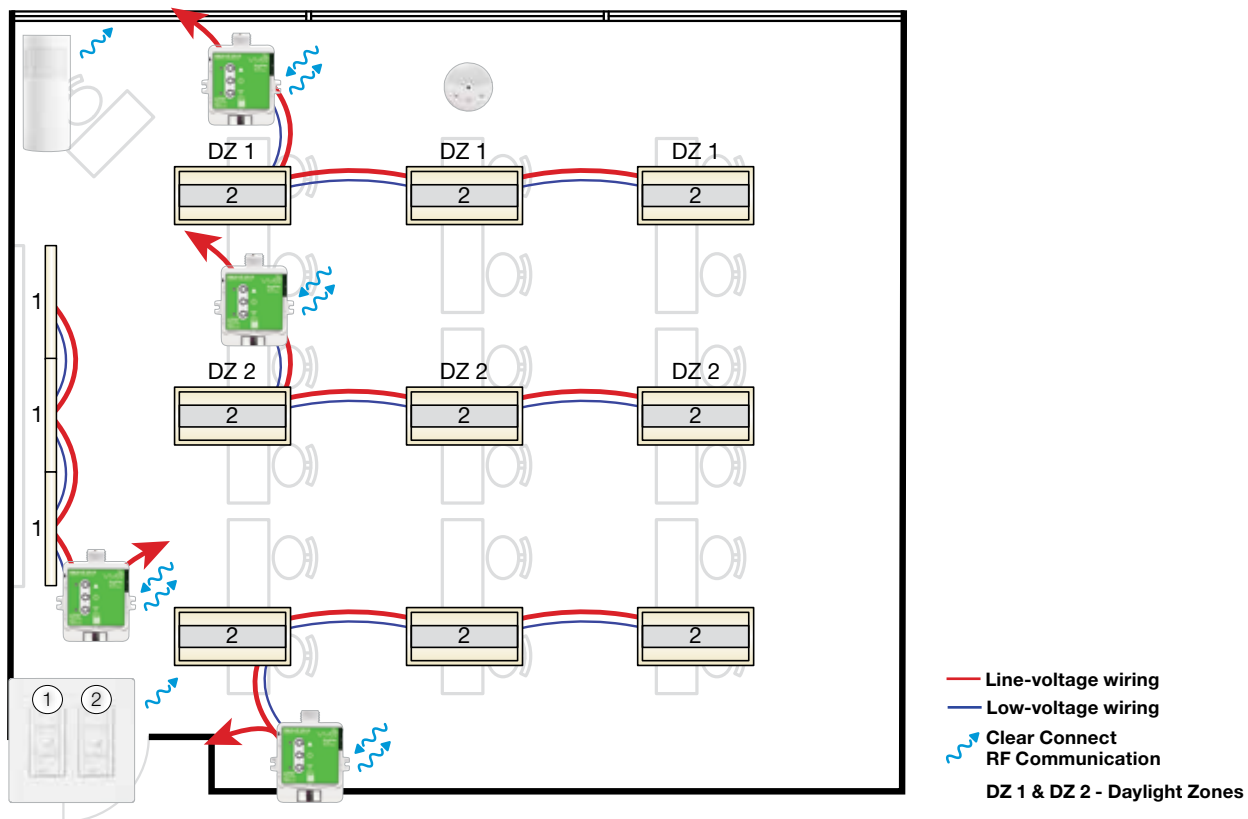
Energy-saving strategies

- Occupancy sensing
- Dimming
- Personal control
- Daylight harvesting
- High-end trim

Codes met

- Automatic shut-off
- Multi-level daylight control
- Multi-level lighting control
- Area control

Application example: Classroom



Vive wireless components (work with PowPak dimming module and Maestro Wireless dimmer sensor)



Dimming, sensing, personal control, and daylight harvesting (in-wall)



Maestro Wireless 0-10V dimmer sensor

- Dims 0-10V LED drivers or electronic fluorescent ballasts
- XCT PIR sensing
- Single pole or multi-location with a Pico wireless remote
- Neutral required
- High-end and low-end trim

Models

MRF2S-8SD010 (occupancy/vacancy)

MRF2S-8SDV010 (vacancy only)

Voltage

8 A, 120/277 V

Ideal for private offices, classrooms, conference rooms, and equipment rooms

Maestro Wireless 0-10V dimmer sensor is a part of the Vive solution. See pages 10-11 for more information.

The Lutron Advantage

- Combines the simplicity of an in-wall sensor with the scalability of a Vive system. You can easily add wireless devices, for another point of control, additional occupancy coverage, or daylight sensing when needed
- Lutron's XCT sensing technology
- Smart ambient light detection learns users preferred light level and keeps lights off when sufficient daylight is available

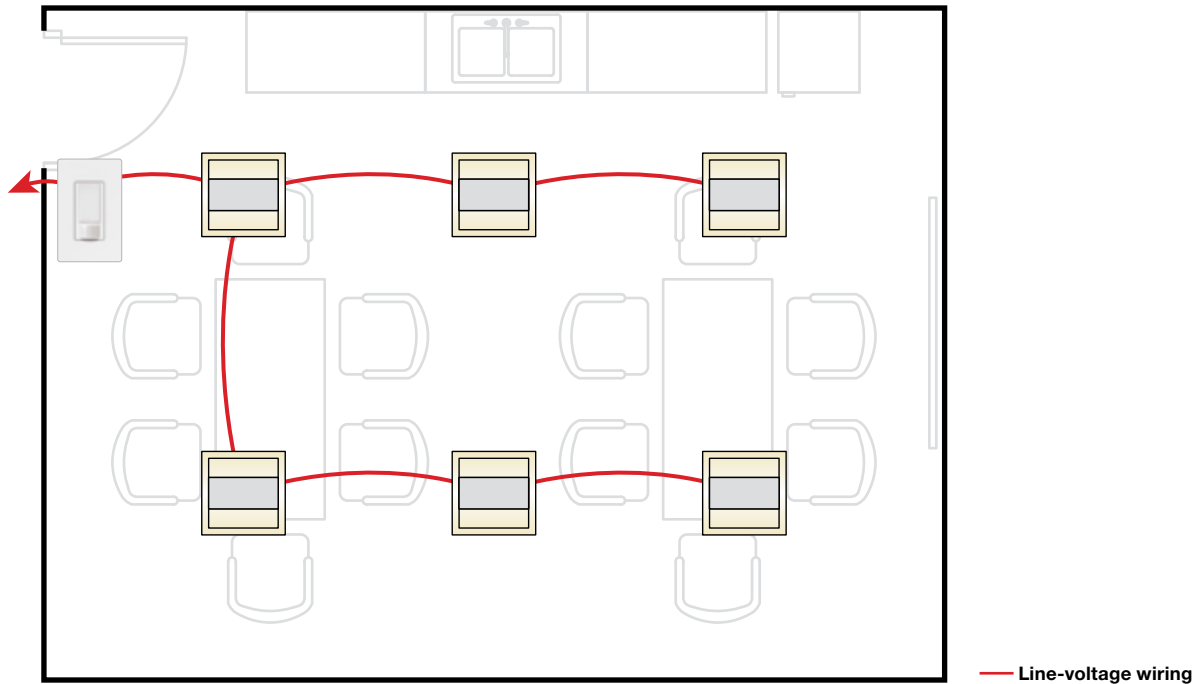
Energy-saving strategies

- Occupancy/vacancy sensing
- Dimming
- Personal control
- Daylight harvesting
- High-end trim

Codes met

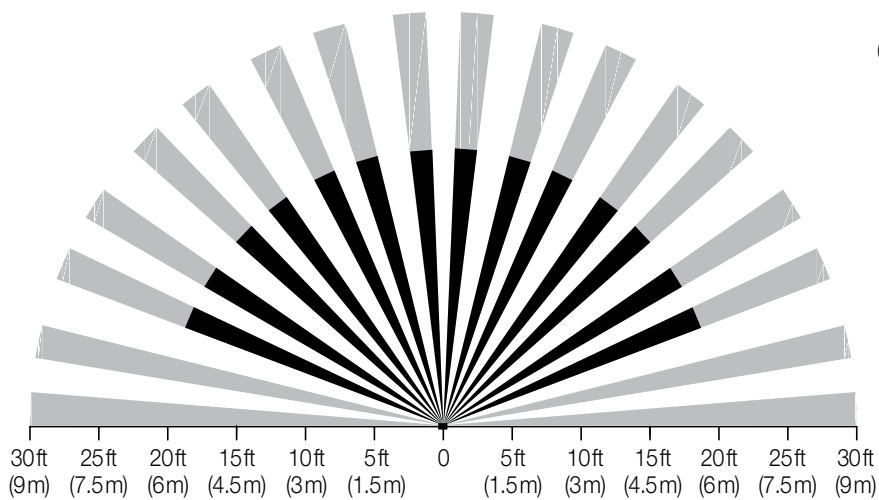
- Automatic shut-off
- Multi-level daylight control
- Multi-level lighting control
- Area control

Application example: Breakroom

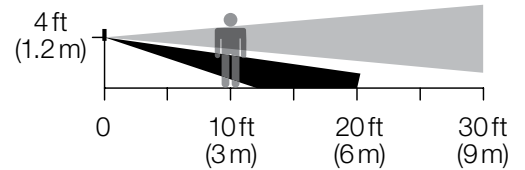


Coverage patterns

Horizontal Beam Diagram



Vertical Beam Diagram



- Major motion coverage (900sq ft)
- Minor motion coverage (400sq ft)

Individual fixture dimming, sensing, personal control, and daylight harvesting



PowPak wireless fixture controller with 0-10V control

- Adds wireless control to each individual 0–10V LED or fluorescent fixture in a space
- Enables combined occupancy detection and daylight harvesting at the individual fixture level

Models

FCJS-010
FCJS-010-BULK8 (contractor 8-pack)
FC-SENSOR
FC-VSENSOR

Voltage

1A, 120–277 V

Ideal for open offices and cafeterias

PowPak wireless fixture controller is a part of the Vive solution. See pages 10–11 for more information.

The Lutron Advantage

- Simple to design and estimate — just count the fixtures
- No additional wiring required — works with existing high-voltage wiring; add more wireless remotes and sensors at any time, and reconfigure zones with no new wiring
- Works out of the box — no complex computer programming; associate Pico wireless remotes with just a button press or green laser
- Proven technology means no callbacks — uses Lutron's XCT sensing technology (fixture sensor) and Clear Connect RF wireless communication

Energy-saving strategies

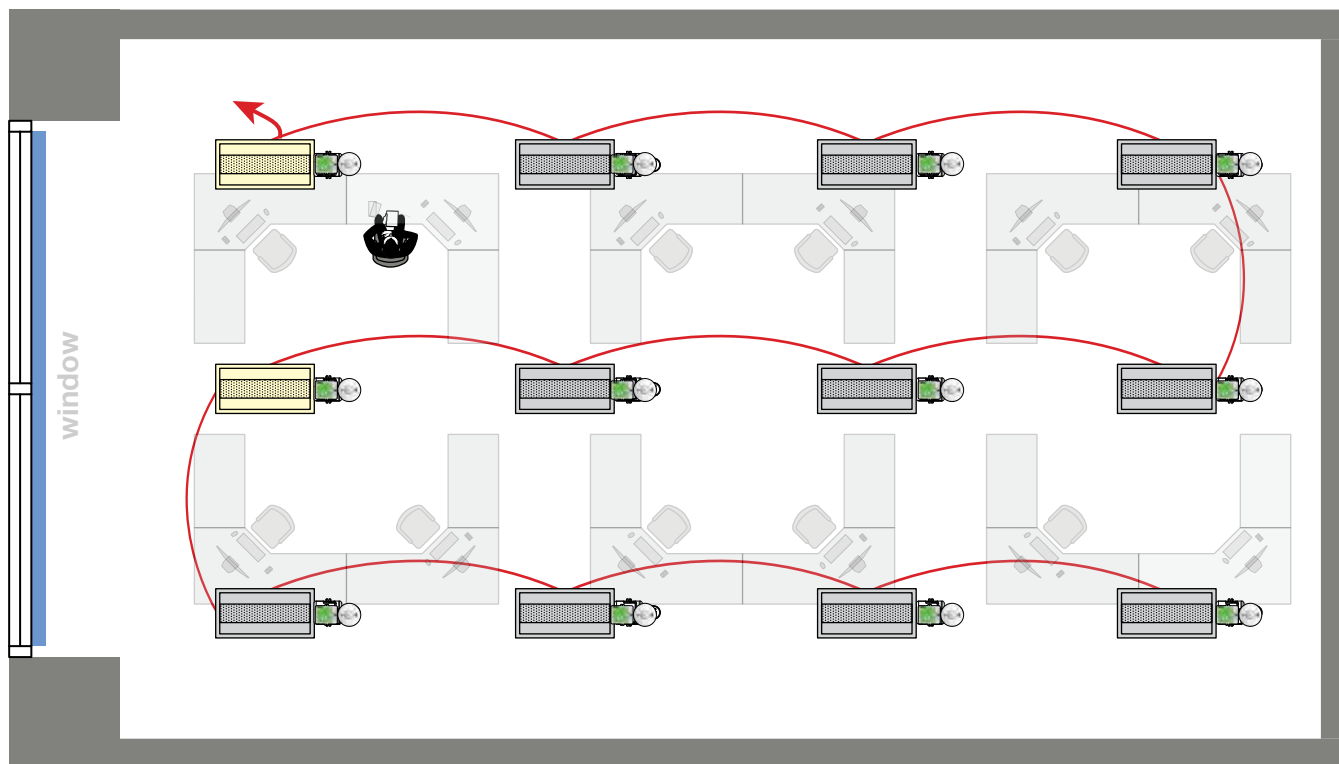
- Occupancy sensing
- Dimming
- Personal control
- Daylight harvesting
- High-end trim

Codes met

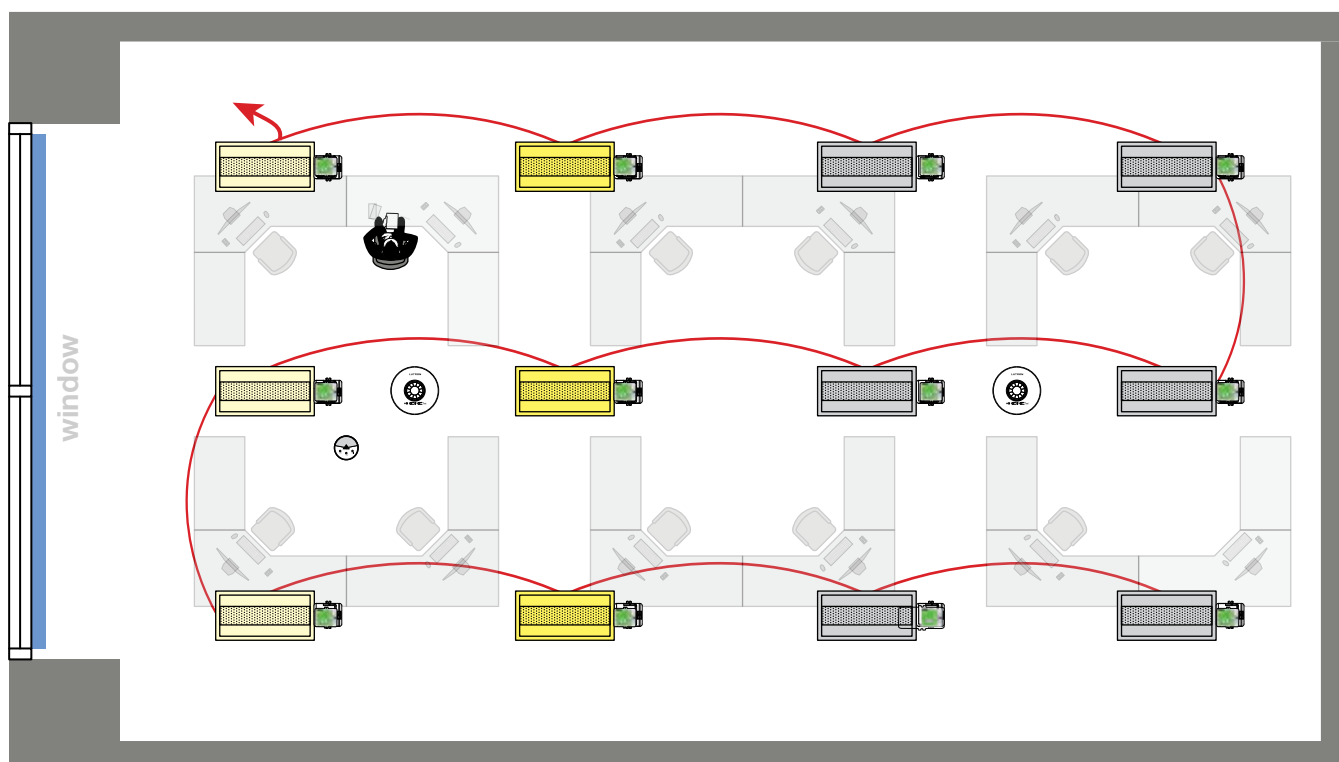
- Automatic shut-off
- Multi-level daylight control
- Multi-level lighting control
- Area control

Application example: Open offices

Individual Fixture Control



Area Control



Leader in LED dimming technology

In addition to 0–10V solutions, look to Lutron as your leader in LED dimming technology. We offer superior technology for standalone, as well as system-based dimming, for both analog and digital control.

We also provide the highest quality products across these LED control types, for LED solutions you can count on.

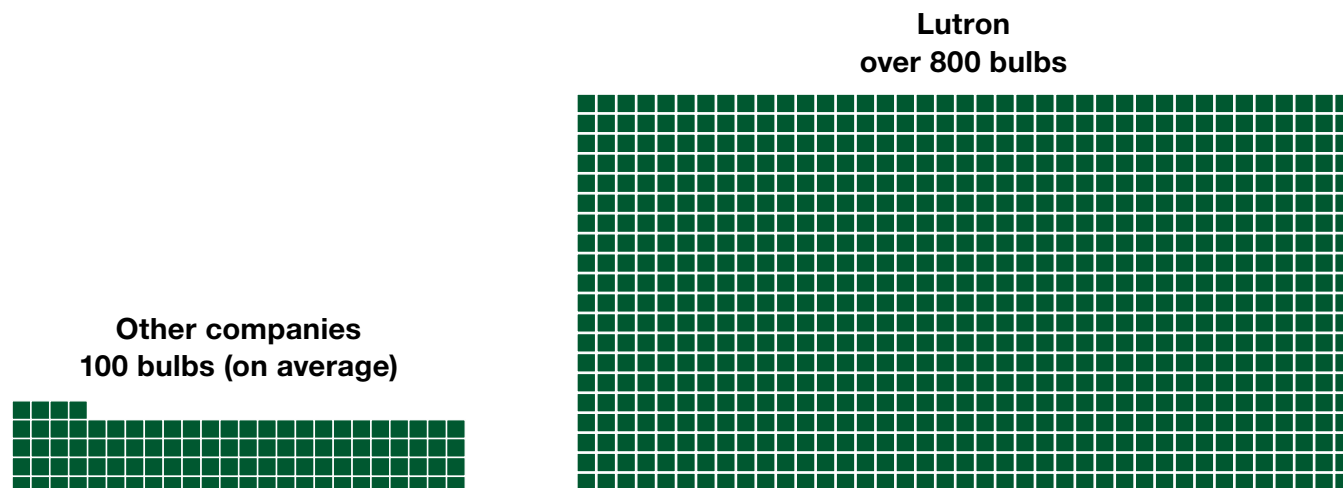
Lutron dimmers with LED+ technology (formerly C•L) fix the issues with lamp compatibility

- Provides superior dimming of LEDs and incandescent/halogen bulbs
- Works with dimmable screw-in LEDs and incandescent/halogen bulbs — even mixed on the same circuit
- Helps future-proof dimmer installations as the bulb landscape changes from incandescent bulbs to LEDs
- High-performance dimming minimizes problems seen with other dimmers, including flicker, shimmer, and pop-on

Light bulb compatibility

- UL Listed to control over 800 different LED bulbs. Easily find the right LED bulb for your dimmer at **lutron.com/LEDfinder**.

■ = unique LED bulb model type



Lutron dimmers with LED+ technology

Dimmers



Ariadni



Skylark



Skylark Contour



Nova T☆



Diva



Dalia



Maestro



Sunnata

Dimmer/Sensor



Maestro dimmer sensor

Wireless controls



Maestro Wireless with Radio Powr Savr wireless occupancy sensor and Pico wireless remote



Caséta Wireless with Pico wireless remote



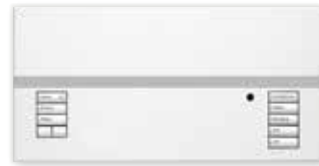
Caséta Wireless lamp dimmer with Pico wireless remote

Leader in LED dimming technology

Scaling from a single room to a whole building

GRAFIK Eye QS

Perfect for conference rooms, GRAFIK Eye QS is a customizable preset lighting control system that allows you to adjust lights and shades for any task.



- ☒ Phase control
- ☒ 0-10V*
- ☒ EcoSystem

Vive

Vive is a simple, scalable, wireless control solution that can be installed in a single space or throughout an entire campus. Designed to be used in new construction or retrofit applications, Vive offers a wide variety of products—including sensors, remotes, load controls, and a software management suite.



- ☒ Phase control
- ☒ 0-10V
- ☒ EcoSystem

Energi Savr Node Solutions

For open office spaces, Energi Savr Node provides a flexible lighting control system comprised of digital fluorescent dimming ballasts, LED drivers, controls, and sensors.



- ☒ Phase control*
- ☒ 0-10V
- ☒ EcoSystem

Panel Solutions

Traditional panel-based systems offer a simple, easy-to-maintain solution for areas with higher wattage lighting zones.



- ☒ Phase control
- ☒ 0-10V
- ☐ EcoSystem

Quantum

Quantum is a lighting control and energy management system for an entire floor, building, or campus.



- ☒ Phase control
- ☒ 0-10V
- ☒ EcoSystem

*Requires interface

Ordering Information

Model number	Description
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Diva dimmers



DVSTV	8A lighting, 120–277V, 3-way/single pole, no neutral or power pack required (gloss)
DVSCSTV	8A lighting, 120–277V, 3-way/single pole, no neutral or power pack required (Satin Colors)
DVTV	16A lighting, 120–277V, single pole, power pack required (gloss)
DVSCTV	16A lighting, 120–277V, single pole, power pack required (Satin Colors)



Nova T☆ dimmer

NTSTV-DV	8A lighting, 120–277V, no neutral or power pack required
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Maestro dimmer sensors



MS-Z101	8A lighting, 120–277V, occupancy/vacancy, multi-location/3-way/single pole
MS-Z101-V	8A lighting, 120–277V, vacancy only, multi-location/3-way/single pole



PowPak dimming module

RMJS-8T-DV-B	5A lighting, 120–277V, connector
RMJS-8TN-DV-B	5A lighting, 120–277V, flying leads

Maestro Wireless dimmer sensors



MRF2S-8SD010	8A lighting, 120/277V, occupancy/vacancy, multi-location/single pole
MRF2S-8SDV010	8A lighting, 120/277V, vacancy only, multi-location/single pole

PowPak wireless fixture controllers and fixture sensors



FCJS-010	0–10V control module
FCJS-010-BULK8	0–10V control module, 8-pack
FC-SENSOR	Occupancy/daylight sensor
FC-VSENSOR	Vacancy/daylight sensor

Radio Powr Savr sensors and Pico wireless remotes

LRF2-OCR2B-P-WH	Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor
LRF2-OWLB-P-WH	Wall-mount, 180° field-of-view, occupancy/vacancy sensor
LRF2-OKLB-P-WH	Corner-mount, 90° field-of-view, occupancy/vacancy sensor
LRF2-OHLB-P-WH	Hallway, occupancy/vacancy sensor
LRF2-DCRB-WH	Ceiling-mount daylight sensor
PJ2-3BRL-GWH-L01	Pico wireless remote with on/off, raise/lower, and favorite button



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