

COMMERCIAL LIGHTING CONTROLS

TITLE 24-2019

Design to meet code compliance with Lutron

USD List prices effective July 10, 2022



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









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This document summarizes the lighting and receptacle control requirements for commercial buildings. It is for information purposes only. It is not meant to replace your state’s or local jurisdiction’s official energy code. Please refer to your local building energy code or authority having jurisdiction for your precise requirements. Only the authority having jurisdiction can guarantee code compliance.


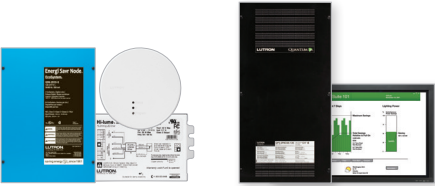
Energy-saving lighting control strategies

Strategy	Potential savings
<div><div><div> Max: 100%</div><div> Max: 80%</div></div><div>High-end trim/tuning sets the maximum light level based on customer requirements in each space.*</div></div>	10–30% Lighting
<div><div><div> Auto On</div><div> Auto Off</div></div><div>Occupancy/vacancy sensing turns lights on when occupants are in a space and off when they vacate the space.*</div></div>	20–60% Lighting
<div><div><div> Full On</div><div> Dim</div></div><div>Daylight harvesting dims electric lights when daylight is available to light the space.*</div></div>	25–60% Lighting
<div><div><div> Full On</div><div> Dim</div></div><div>Personal dimming control gives occupants the ability to set the light level.*</div></div>	10–20% Lighting
<div><div><div> Shade Open</div><div> Shade Closed</div></div><div>Controllable window shading moves shades to reduce glare and solar heat gain.*</div></div>	10–20% Cooling
<div><div><div> 7am: Dim</div><div> 7pm: Off</div></div><div>Scheduling provides scheduled changes in light levels based on the time of day.*</div></div>	10–20% Lighting
<div><div><div> Full On</div><div> Dim</div></div><div>Demand response automatically reduces lighting loads during peak electricity usage times.*</div></div>	30–50% During peak period
<div><div><div> Appliance On</div><div> Appliance Off</div></div><div>Plug load control automatically turns off loads after occupants leave a space.*</div></div>	15–50% of Controlled loads
<div><div><div> Heating</div><div> Cooling</div></div><div>HVAC integration controls heating, ventilation, and air conditioning systems through a contact closure.*</div></div>	5–15% HVAC

*Go to lutron.com/references for more information.

Codes can sometimes be complicated and difficult to navigate. This commercial application guide provides examples of how Lutron products can be used to meet or exceed code requirements. This guide focuses on Vive and Vive compatible solutions, but our other control systems offer similar features.

Lutron Product Capabilities: Commercial Applications

						
		Local Solutions			Panel Solutions	
		Wallbox	Vive	Vive with wireless hub*	Energi Savr Node	Quantum
Strategies for code/standards compliance	Occupancy sensing	●	●	●	●	●
	Multi-level lighting control	●	●	●	●	●
	Daylight harvesting		●	●	●	●
	Receptacle control		●	●	●	●
	Timeclock			●	●**	●
	Demand response			●†	●†	●
	Energy monitoring			●		●
	BACnet integration			●		●

To learn more about these products and their specifications, go to lutron.com/catalogs.

* For the latest information on products compatible with the Vive wireless hub go to lutron.com/vive.
** Requires QS timeclock.
† Automated Demand Response capability requires signal from a third-party device.

Summary of Requirements for Lighting and Receptacle Controls

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The requirements listed below are summarized for simplicity and may have other exceptions that were omitted.

	Minimum control type	Description	Code provision
Local Control	Switching	Lighting shall be capable of turning ON and OFF. There shall be at least one manual device for control of the lighting within a space. See code for spaces that allow remote location of control.	130.1 (a)
	Multi-level or dimming ¹	Lighting shall be capable of multiple control steps in enclosed spaces 100 sq. ft. or larger. Light level requirements are defined in Table 130.1-A. There shall be at least one manual device for control of the lighting within a space. See code for spaces that allow remote location of control.	130.1 (b)
Automatic Control ³	Timeclock ²	Interior: Scheduled control, based on time-of-day, turns lighting ON or OFF based on typical occupancy. Occupancy sensors also comply as an alternate to using a timeclock. Exterior: Scheduled control, based on time-of-day and sunrise/sunset (requires astronomical timeclock), turns lighting ON or OFF based on typical occupancy and daylight.	130.1 (c) 1 130.2 (c) 1, 2
	Occupancy sensor	Automatic control turns lighting ON upon occupancy or OFF after a vacancy of 20 minutes or less. When manual ON is used, provide a vacancy sensor which does not allow for automatic ON.	130.1 (c)
	Full ON	When initiated by a timeclock or occupancy sensor, lighting is automatically turned ON to maximum lighting power.	130.1 (c) 1
	Partial ON	When initiated by a timeclock or occupancy sensor, lighting is automatically turned ON to 50% to 70% of maximum lighting power.	130.1 (c) 5
	Full OFF	When initiated by a timeclock or occupancy sensor, lighting is automatically turned OFF.	130.1 (c) 5 130.2 (a)
	Partial OFF	When initiated by a timeclock or occupancy sensor, lighting is automatically reduced by at least 50% of maximum lighting power for interior spaces, 20% to 50% for parking garages. Exterior: Parking lot pulls and wall-mounted luminaires 24 ft. or less in height must be controlled with motion sensors that reduce the lighting power by 50% to 90% or OFF, when the zone is vacant by more than 15 minutes. Automatic full OFF also complies.	130.1 (c) 6 & 7 130.2 (c) 3
Other	Daylight responsive control ¹	Interior & Parking Garages: A sensor which adjusts lighting in response to available daylight is required for sidelight and skylight zones (see the “Daylight zone requirements” diagrams). Exterior: A photosensor can be used as an alternate to the dawn/dusk operation of an astronomical timeclock.	130.1 (d) 130.2 (c) 1
	Receptacle control	At least 50% of the receptacles shall automatically turn OFF based on typical occupancy or after a vacancy of 20 minutes or less. Each uncontrolled receptacle must have at least one controlled receptacle within 6 feet. Open offices with receptacles in modular furniture must include one controlled receptacle per workstation. Plug-in devices do not comply.	130.5 (d)
	Demand response	Buildings larger than 10,000 sq. ft. shall have demand responsive lighting controls that reduce lighting power in response to an OpenAPR signal.	130.1 (e) 110.12 (c)

For areas being used as a path of egress or fixtures being used for emergency, verify compliance with your local authority having jurisdiction. Acceptance (functional) testing is required for all new construction applications to ensure that control hardware and software are calibrated, programmed and functioning properly (Code provision C408.3).

1 When multi-level lighting control and/or daylight responsive control is required, Lutron recommends using continuous dimming to allow for smooth light level adjustment and maximized energy savings.

2 Lutron recommends using occupancy sensors to achieve automatic on/off requirements in place of a timeclock to maximize energy savings and optimize user experience.

3 Manual ON is always permitted for interior applications. Provide manual ON control when no automatic ON is indicated.

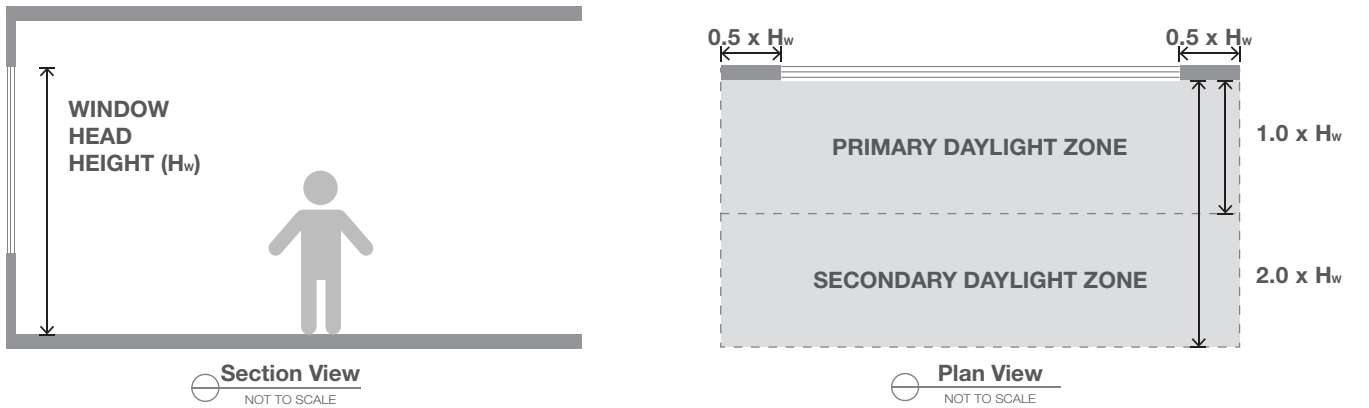
Daylight Zone Requirements

Title 24-2019

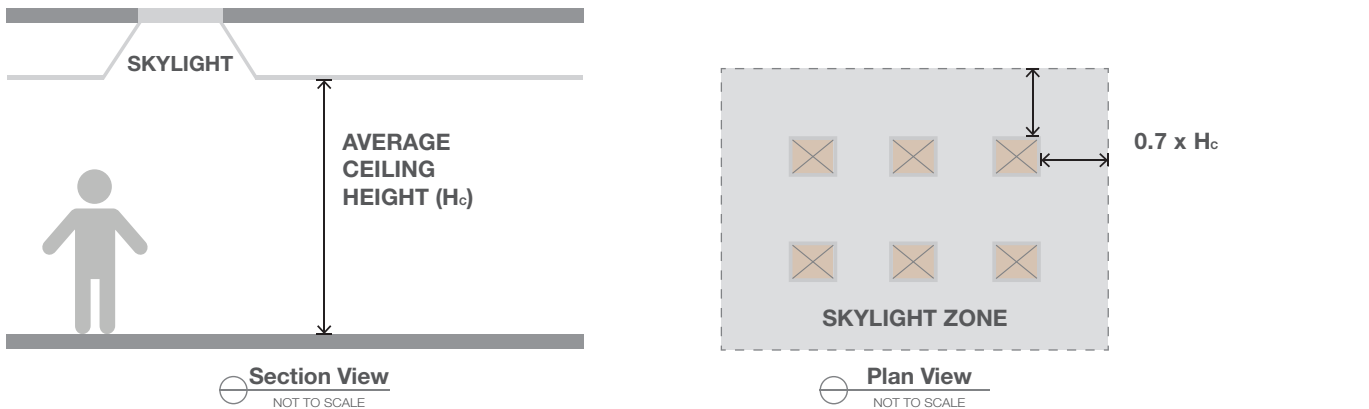
Daylight Zone Requirements:
Sidelighted daylight zones must be controlled separately from toplighted zones.

Daylight Exceptions:
Daylight control is not required when the total lighting power of a daylight zone is 120 W or less (60 W for parking garages), or when the total glazing/opening area is 24 sq. ft. or less (36 sq. ft. for parking garages). Other exceptions exist, based on space type, window area, neighboring obstructions, and glass transmittance.

Sidelighting (Window)














































Toplighting (Skylight)



Suggested Code Compliant Solutions

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The compliant solutions listed below are suggested based on total installed cost, simplicity of design, and basic functional needs for the space. These solutions do not represent the only compliant options to meet lighting and receptacle control requirements. Applications in this guide will illustrate these solutions and/or alternate solutions for advanced functionality.

		Atrium	Break Room	Classroom, Lecture Hall, Training Room	Conference, Multi-purpose Room	Egress Corridor ⁴	Lobby
Local Control	Switching						
	Multi-level or dimming						
Automatic Control ²	Timeclock						
	Occupancy sensor						
	Full ON						
	Partial ON						
	Full OFF						
	Partial OFF						
Other	Daylight responsive control						
	Receptacle control						
	Demand response						

1 Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.

2 Manual ON is always permitted for interior applications. Provide manual ON control when no automatic ON is indicated.

3 Astronomical timeclock shall ensure the lights are off during daylight hours. Occupancy sensor shall provide Full ON and Partial OFF control. Occupancy sensing not required for lighting mounted higher than 24 feet.


4 Up to 0.2 W may be continuously illuminated for means of egress illumination.


5 Local control may be not accessible to unauthorized personnel.


Suggested Code Compliant Solutions






















































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Diagram key:

 = New construction

 = Lighting retrofit¹

 = New construction and retrofit¹

Open Office (>250 sq. ft.)	Private Office (<250 sq. ft.)	Restroom ⁵	Egress Stairwell ^{4,5}	Storage Room	Facade/Landscape	Parking Garage ⁵ (Not Roof)	Other Exterior ³
							
							
							
							
							
							
							
							
							
							

This application guide is designed to help specifiers and contractors understand codes and Lutron controls in a simple manner. Each of the pages will lay out different spaces, the corresponding lighting control products for those spaces, and the way the system is set up in the space.

For Specifiers

Use this application guide for design suggestions, to understand the way the system operates and to specify the relevant products for each space.

For Contractors

Use this application guide to understand how the system is installed, the way the system must operate, and to order the correct products for each application.

Room type Type of solution

Classroom | New Construction
Title 24-2019

Symbol

Model Number

Description

Qty

List Price Each

	RMJS-8T-DV-B	PowPak dimming module with 0-10V	4	\$ 180.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	1	\$ 150.00
	LRF2-OKLB-P-WH	Radio Powr Savr wireless corner-mount occupancy sensor	1	\$ 105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	

Code Notes:

For non-daylit classrooms, all general lighting can be connected to a single 0-10V dimming module. Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.

Classroom | New Construction
Title 24-2019

Visible System Components

Pico wireless control

Radio Powr Savr wireless corner-mount occupancy sensor and daylight sensor

Control Functionality

Occupant Enters:

All lights automatically turn on to 50% light level. Occupant turns on lights to maximum level manually. Maximum light level is set to 80%.

When Occupied:

Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

Manual: Occupant uses wall dimmers to set desired light levels for both general and white-board lights.

Occupant Exits:

All lights automatically turn off 15 minutes after all occupants exit.

System Events:

Demand Response: All lights automatically dim 20% during demand events.

Control Strategies

Occupancy/Vacancy

Daylight Harvesting

Personal Dimming

High-end Trim/Tuning

Demand Response

Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.

Understand how the products are laid out in the space

Learn more about the products used in the space

This guide offers up to three solutions per space type.

- The **Retrofit Solutions** are simple and inexpensive solutions, generally suited for a basic retrofit.
- The **New Construction Solutions** are value driven, generally best suited for new construction.
- The **Recommended Solutions** have advanced functionality for greater comfort and energy savings.

Type of solution

Learn about the products visible in the space and the different options available for these

Learn what strategies are implemented in the space

Learn what energy savings you achieve over manual shut-off

Understand how the space functions with the installed system

8







9

Vive Local Solutions Layout

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This is a high-level overview of the local solutions layout. For individual room requirements refer to the detailed room type solutions in this guide.

A single PowPak module can control a single or multiple fixtures. The products shown here are representative of local solutions. Multiple product options are available to meet the needs of the space.

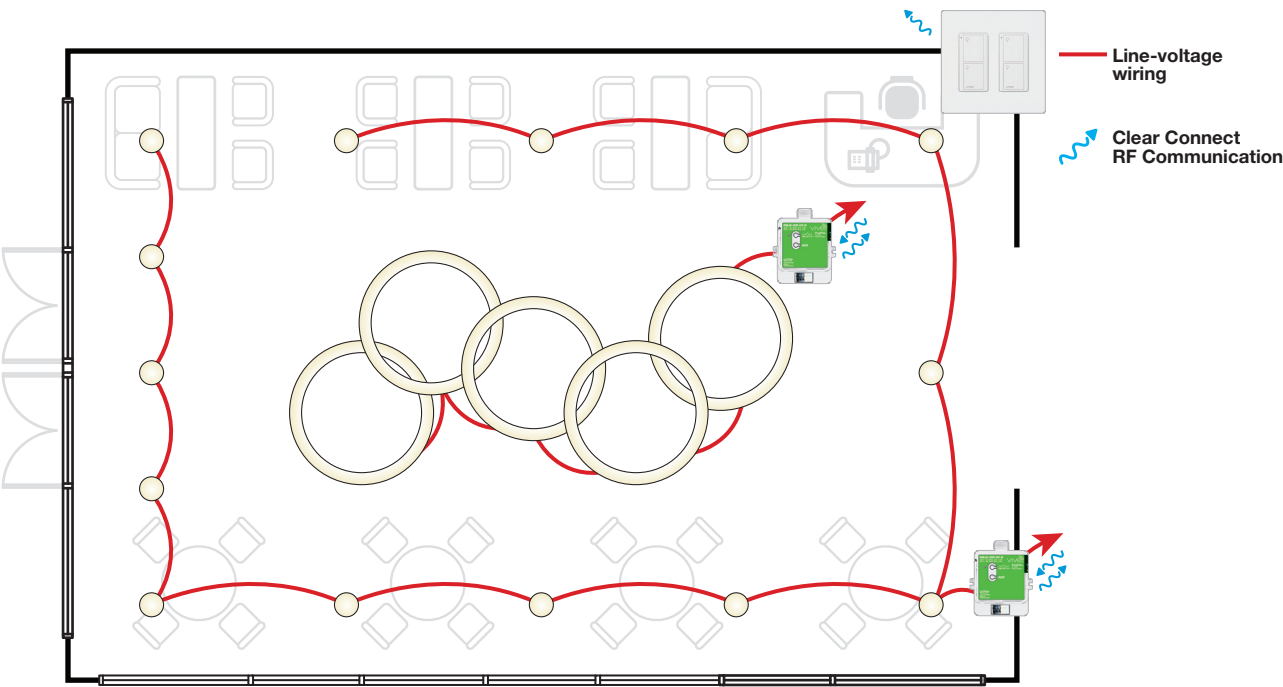
-  Vive wireless hub*
-  PowPak module
-  Occupancy sensor
-  Pico wireless remote control
-  Daylight sensor
-  Vive wireless receptacle




Vive wireless hub features:

- Central control, management, and monitoring of Vive devices via web browser
- Supports astronomic and time-of-day events
- Two contact closure inputs for third-party integration, such as Automatic Demand Response
- Wi-Fi access for easy commissioning
- Control up to 10,000 sq. ft. with a single hub
- Optional BACnet integration

* Go to lutron.com/vive for complete compatibility and design details.

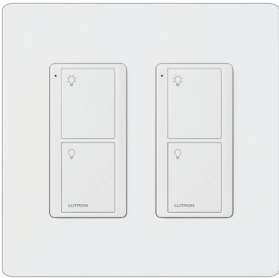




Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	2	\$ 155.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: Requirements specified for atriums 20-40 ft. in height. Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaires in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Pico wireless control

Control Functionality

When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

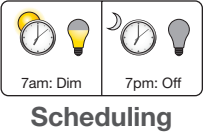
Timeclock:
Timeclock turns perimeter lights on during normally occupied hours.

Timeclock turns lights off during normally unoccupied hours.

Code Notes: Requirements specified for atriums 20-40 ft. in height. Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaires in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.



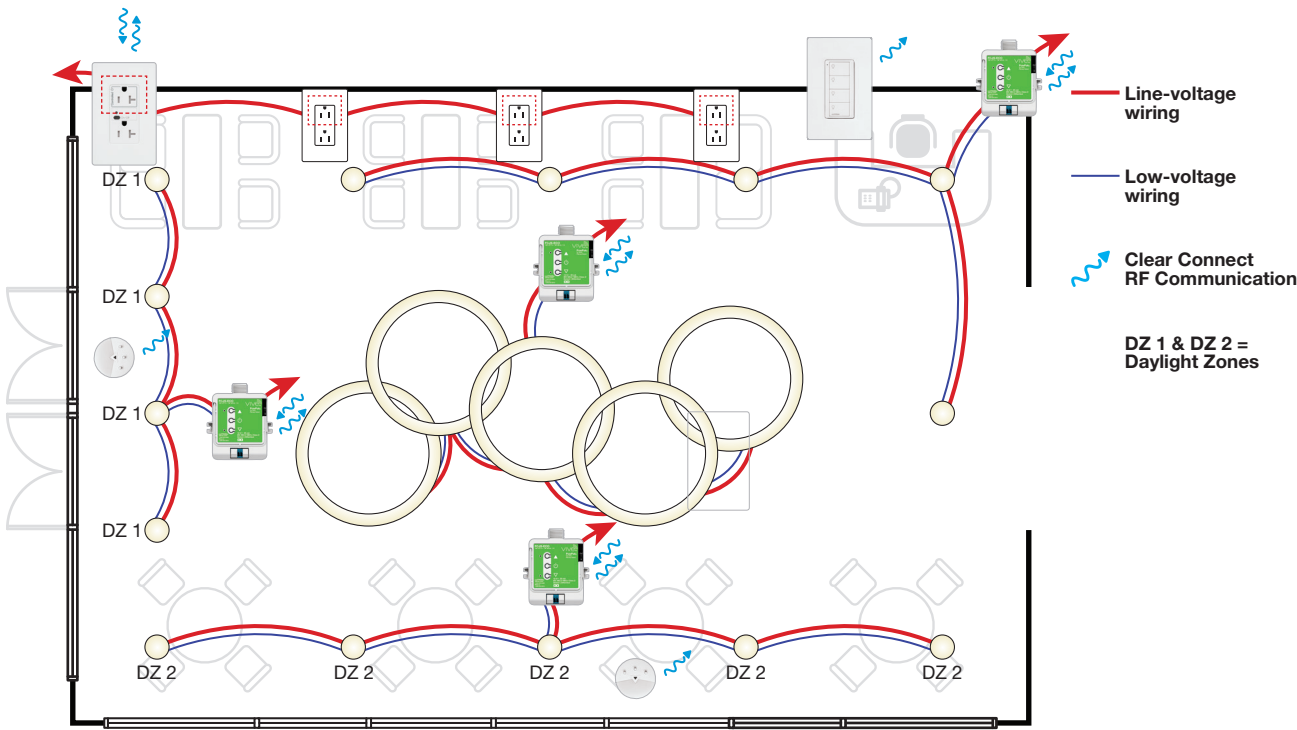
Control Strategies








Lighting Energy Savings*

10%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	4	\$ 180.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	2	\$ 150.00
	PJ2-4B-GWH-L31	Pico wireless 4-button scene control	1	\$ 45.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: Requirements specified for 20-40 ft. atriums.
Go to lutron.com/vive for complete compatibility and design details.
This solution requires 0-10V enabled ballasts and drivers by others.


Visible System Components



Pico wireless 4-button scene control



Vive wireless receptacle



Radio Powr Savr wireless daylight sensor

Control Functionality

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

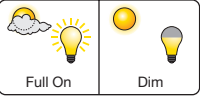
Manual: Occupant selects scenes to set desired light levels for all lights.

Timeclock:
Timeclock turns all controlled receptacles on and lights on to 50% light level during normally occupied hours. Maximum light level is set to 80%.

Timeclock turns lights and controlled receptacles off during normally unoccupied hours.

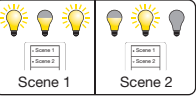
System Events:
Demand Response: All lights automatically dim 20% during demand events.

Control Strategies



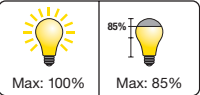
Full On Dim

Daylight Harvesting




Scene 1 Scene 2

Scene Control



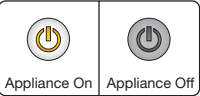
Max: 100% Max: 85%

High-end Trim/Tuning



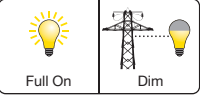
7am: Dim 7pm: Off

Scheduling



Appliance On Appliance Off

Plug Load Control



Full On Dim

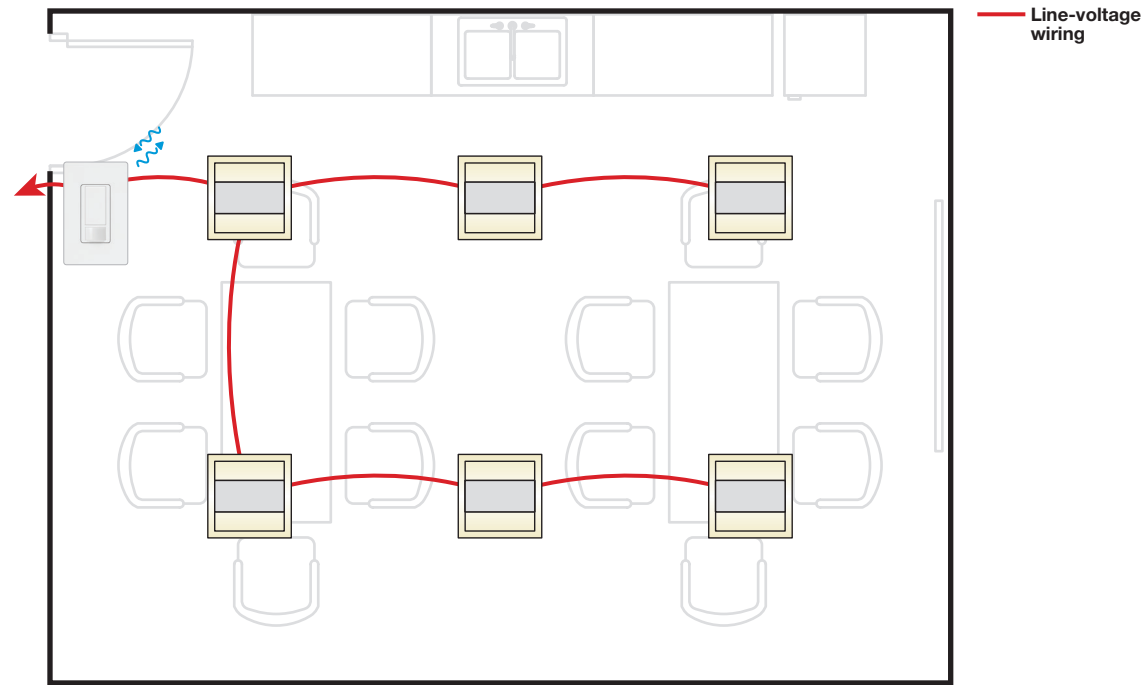
Demand Response


Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.

Code Notes: Requirements specified for 20-40 ft. atriums.



Symbol	Model Number	Description	Qty	List Price Each
	MRF2S-8SSV-WH	Maestro Wireless sensor switch	1	\$ 190.00

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.

Visible System Components



Maestro vacancy sensing switch



Control Functionality

- Occupant Enters:**
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually.
- When Occupied:**
Manual: Occupant uses wall switch to turn all lights off.
- Occupant Exits:**
All lights automatically turn off 15 minutes after all occupants exit.

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.



Control Strategies



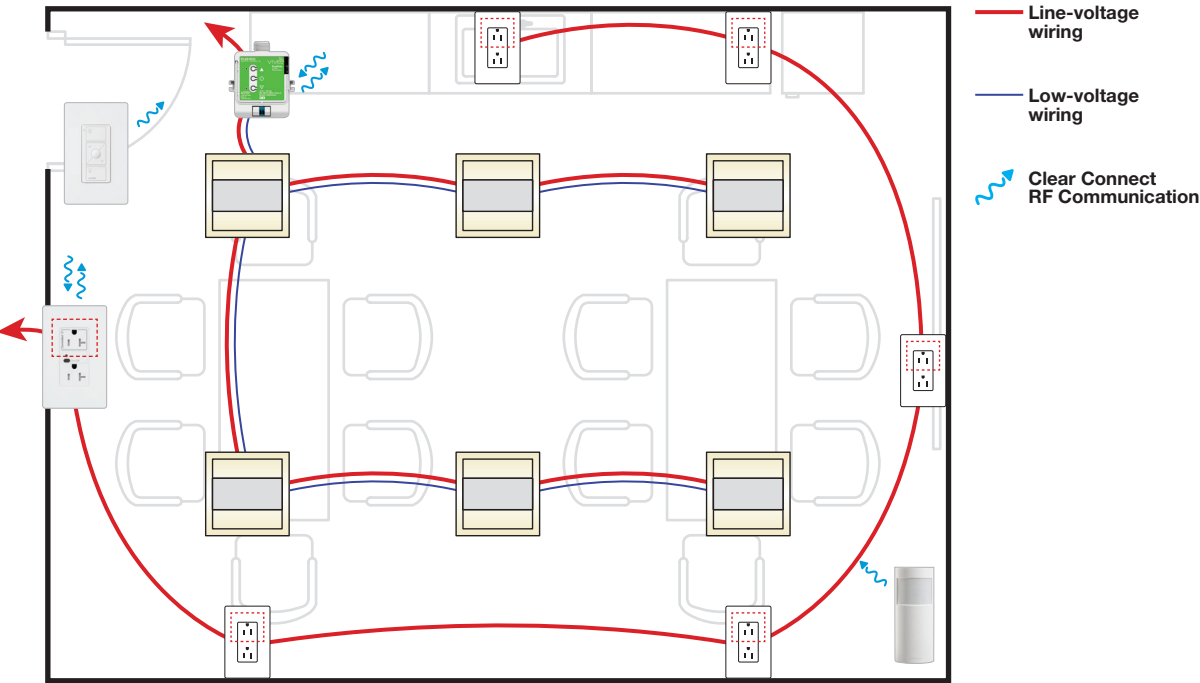
Manual On Auto Off






Occupancy/Vacancy

Lighting Energy Savings*

30%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	1	\$ 180.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	LRF2-VKLB-P-WH	Radio Powr Savr wireless corner-mount vacancy sensor	1	\$105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: For break rooms with daylight, include a 0-10V dimming module per zone and a daylight sensor. Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.

Visible System Components



Pico wireless control



Vive wireless receptacle



Radio Powr Savr wireless corner-mount vacancy sensor

Control Functionality

Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually. Maximum light level is set to 80%.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Manual: Occupant uses wall dimmer to set desired light levels for all lights.

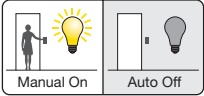
Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

50% of all receptacles automatically turn off 15 minutes after all occupants exit.


System Events:
Demand Response: All lights automatically dim 20% during demand events.

Code Notes: For break rooms with daylight, include a 0-10V dimming module per zone and a daylight sensor.

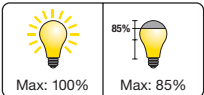
Control Strategies



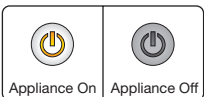
Occupancy/Vacancy



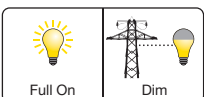
Personal Dimming



High-end Trim/Tuning



Plug Load Control

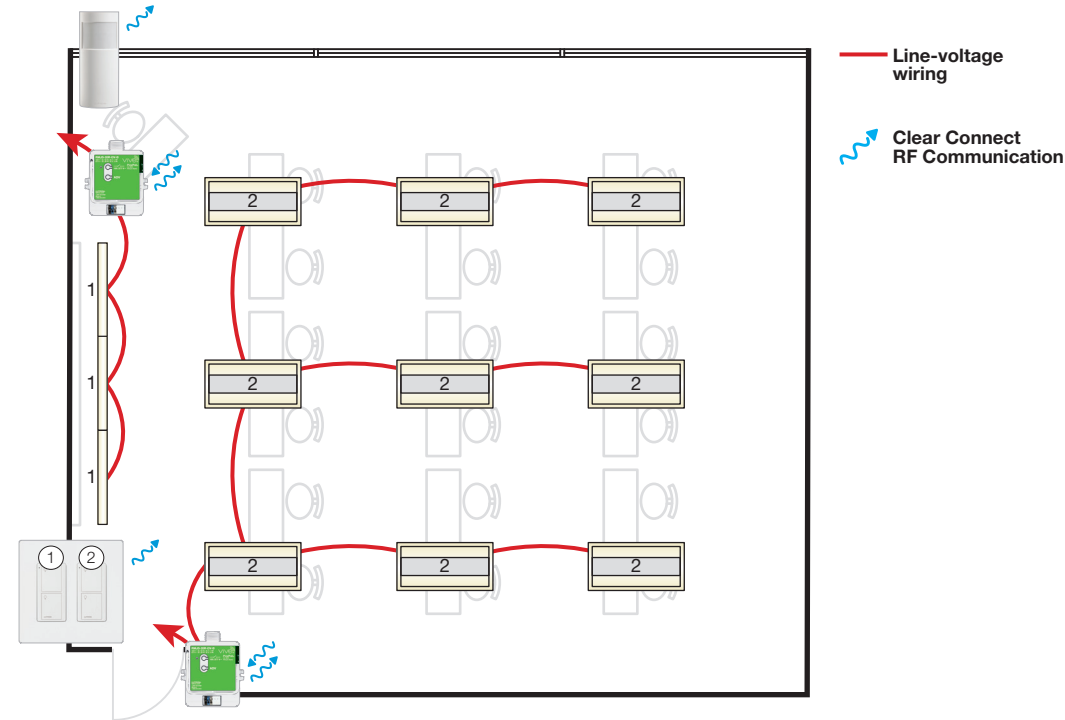





Demand Response

Lighting Energy Savings*

45%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	2	\$ 155.00
	LRF2-VKLB-P-WH	Radio Powr Savr wireless corner-mount vacancy sensor	1	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaires in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.

Visible System Components



Pico wireless control



Radio Powr Savr
wireless corner-mount
vacancy sensor

Control Functionality

Occupant Enters:

Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually.

When Occupied:

Manual: Occupant uses wall switches to turn on and off general and white-board lighting.

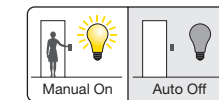
Occupant Exits:

All lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.



Control Strategies

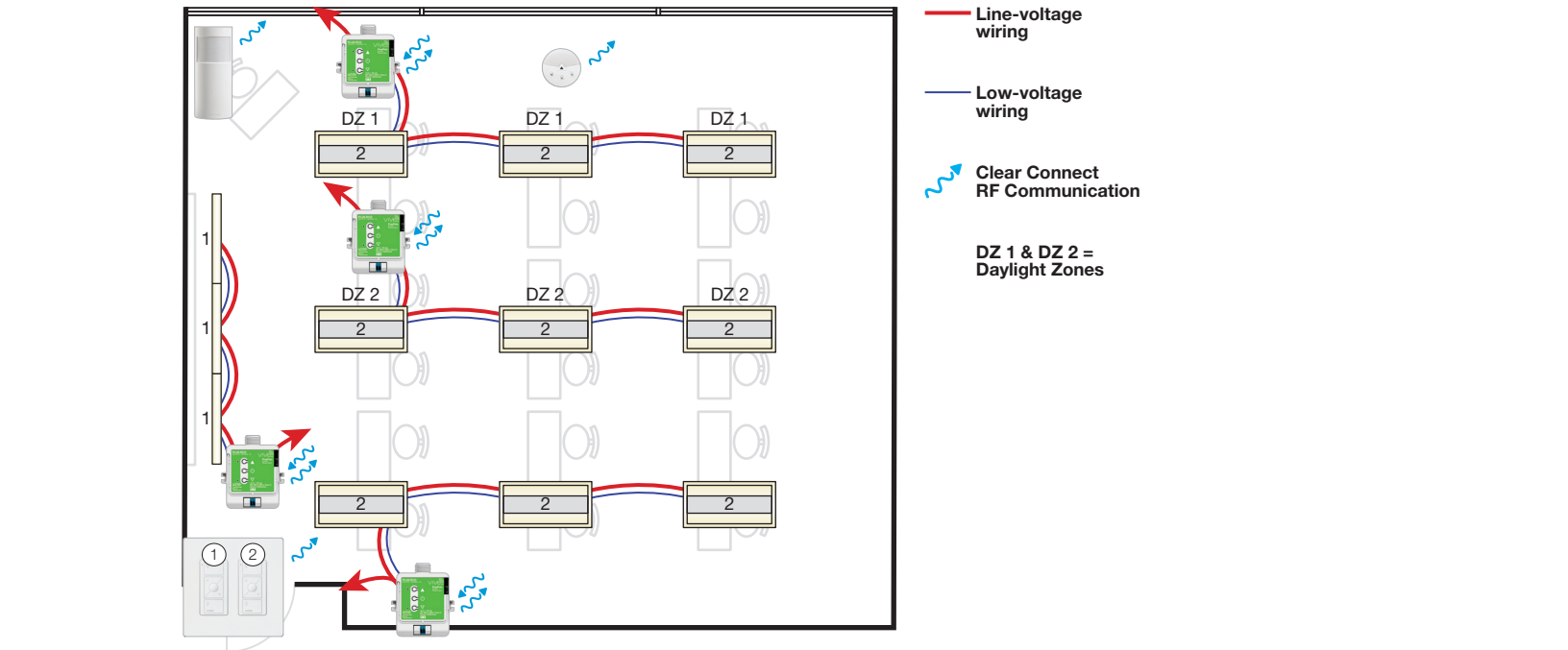







Occupancy/Vacancy

Lighting Energy Savings*

45%

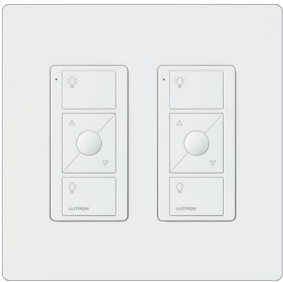
* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	4	\$ 180.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	1	\$ 150.00
	LRF2-OKLB-P-WH	Radio Powr Savr wireless corner-mount occupancy sensor	1	\$ 105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: For non-daylit classrooms, all general lighting can be connected to a single 0-10V dimming module. Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.

Visible System Components



Pico wireless control



Radio Powr Savr wireless corner-mount occupancy sensor and daylight sensor

Control Functionality

Occupant Enters:
All lights automatically turn on to 50% light level. Occupant turns on lights to maximum level manually. Maximum light level is set to 80%.

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

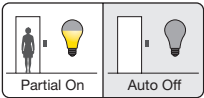
Manual: Occupant uses wall dimmers to set desired light levels for both general and white-board lights.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

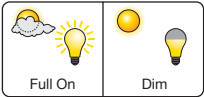
System Events:
Demand Response: All lights automatically dim 20% during demand events.



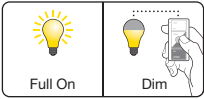
Control Strategies



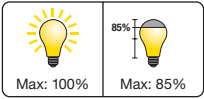
Occupancy/Vacancy



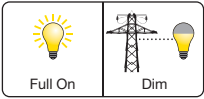
Daylight Harvesting



Personal Dimming



High-end Trim/Tuning

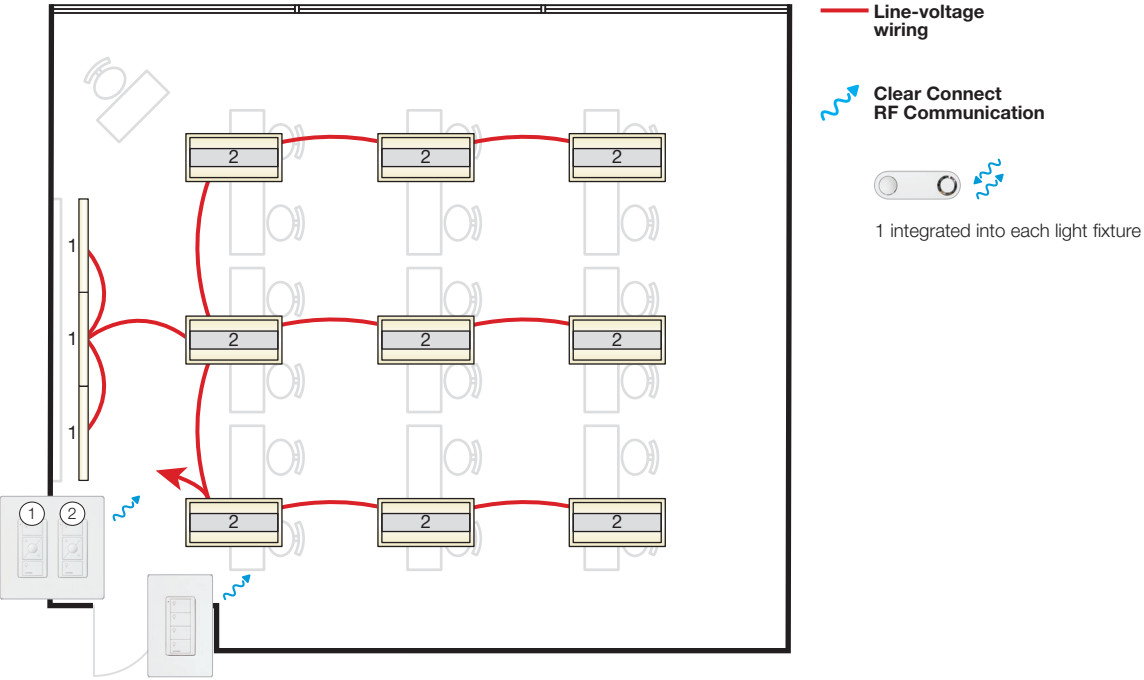


Demand Response

Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	Integral to fixture ¹	Integral fixture control with sensor	12	\$ 78.00 ²
	PJ2-4B-GWH-L31	Pico wireless 4-button scene control	1	\$ 45.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	3	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

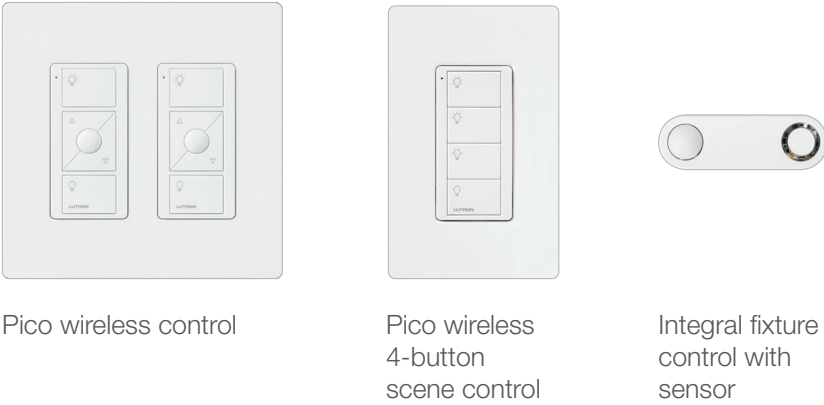
1 Fixture control comes pre-installed in fixture. Look for the Clear Connect Wireless symbol for fixtures containing this module. Go to lutron.com/findafixture for a complete list of compatible fixtures and drivers.

2 Fixture adder for the control module may vary.



This solution requires digitally enabled ballasts and drivers by others.

Visible System Components



Control Functionality

Occupant Enters:
All lights automatically turn on to 50% light level. Occupant turns on lights to maximum level manually. Maximum light level is set to 80%.

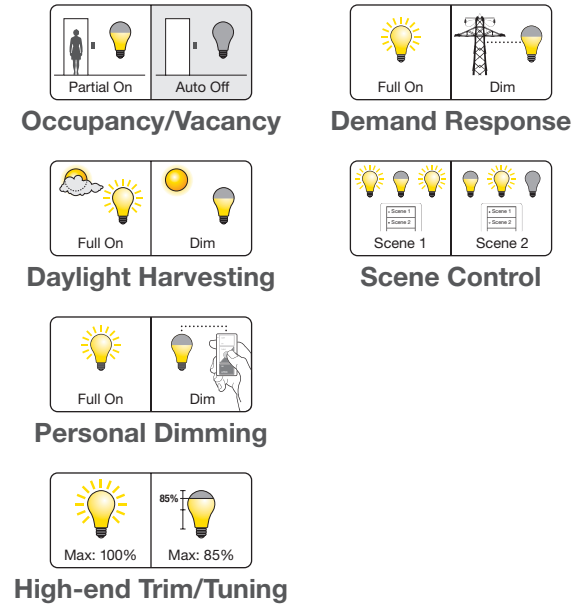
When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

Manual: Occupant selects scenes or uses dimmers to set desired light levels for all lights. Entry scene controller has 3 user preferred presets and 1 all off button.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

System Events:
Demand Response: All lights automatically dim 20% during demand events.

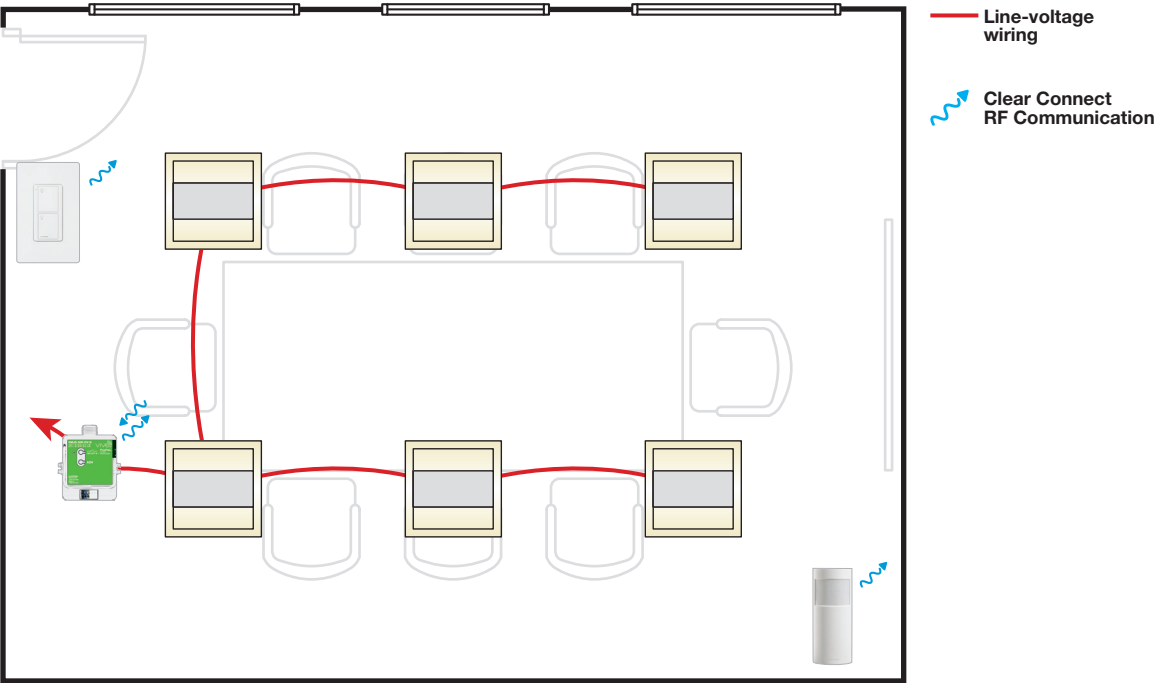
Control Strategies






Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	1	\$ 155.00
	LRF2-VKLB-P-WH	Radio Powr Savr wireless corner-mount vacancy sensor	1	\$105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.

Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Pico wireless control



Radio Powr Savr wireless corner-mount vacancy sensor

Control Functionality

Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually.

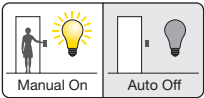
When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.



Control Strategies



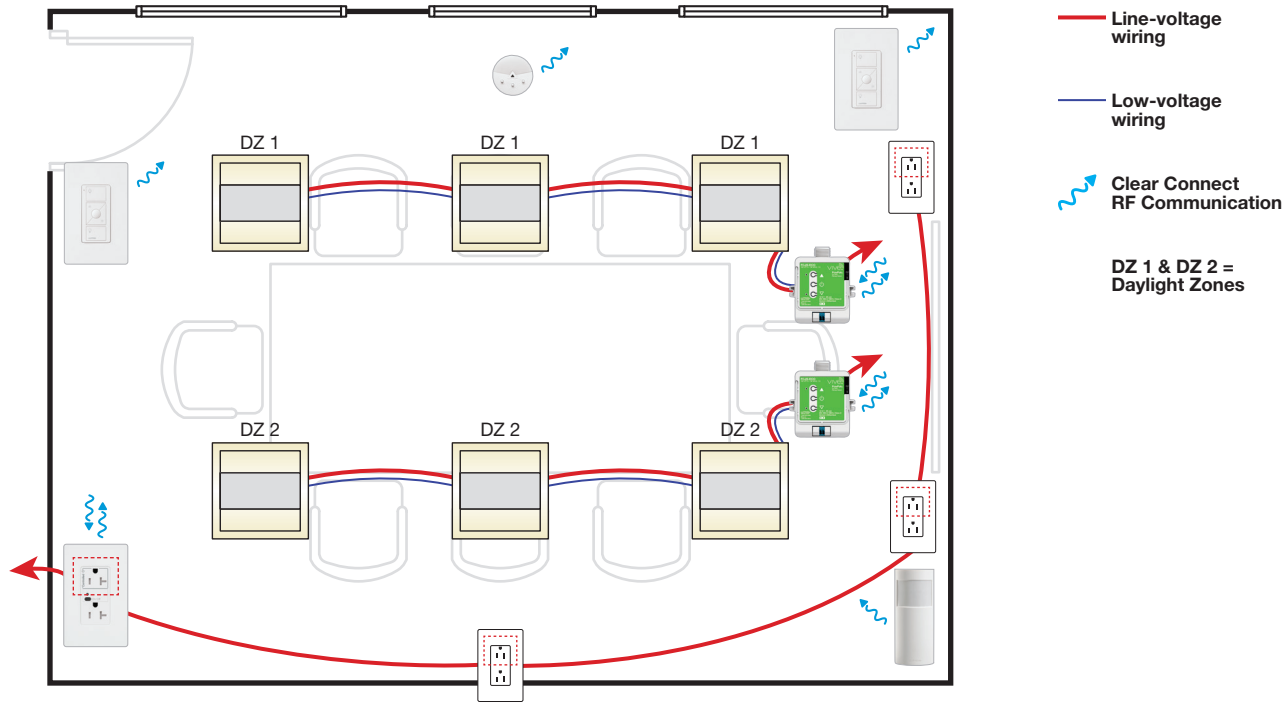
Occupancy/Vacancy







Lighting Energy Savings*

40%

* Go to lutron.com/references for more information.

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	2	\$ 180.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	1	\$ 150.00
	LRF2-VKLB-P-WH	Radio Powr Savr wireless corner-mount vacancy sensor	1	\$ 105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: For non-daylit conference rooms, all general lighting can be connected to a single 0-10V dimming module. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.

Visible System Components



Pico wireless control



Vive wireless receptacle



Radio Powr Savr wireless corner-mount vacancy sensor and daylight sensor

Control Functionality

Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually. Maximum light level is set to 80%.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

Manual: Occupant uses wall dimmer to set desired light levels for all lights.

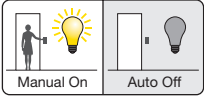
Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

50% of all receptacles automatically turn off 15 minutes after all occupants exit.

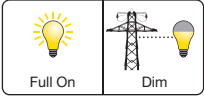
System Events:
Demand Response: All lights automatically dim 20% during demand events.

Code Notes: For non-daylit conference rooms, all general lighting can be connected to a single 0-10V dimming module.


Control Strategies



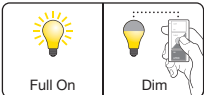
Occupancy/Vacancy



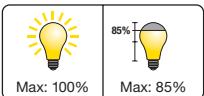
Demand Response



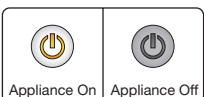
Daylight Harvesting



Personal Dimming



High-end Trim/Tuning

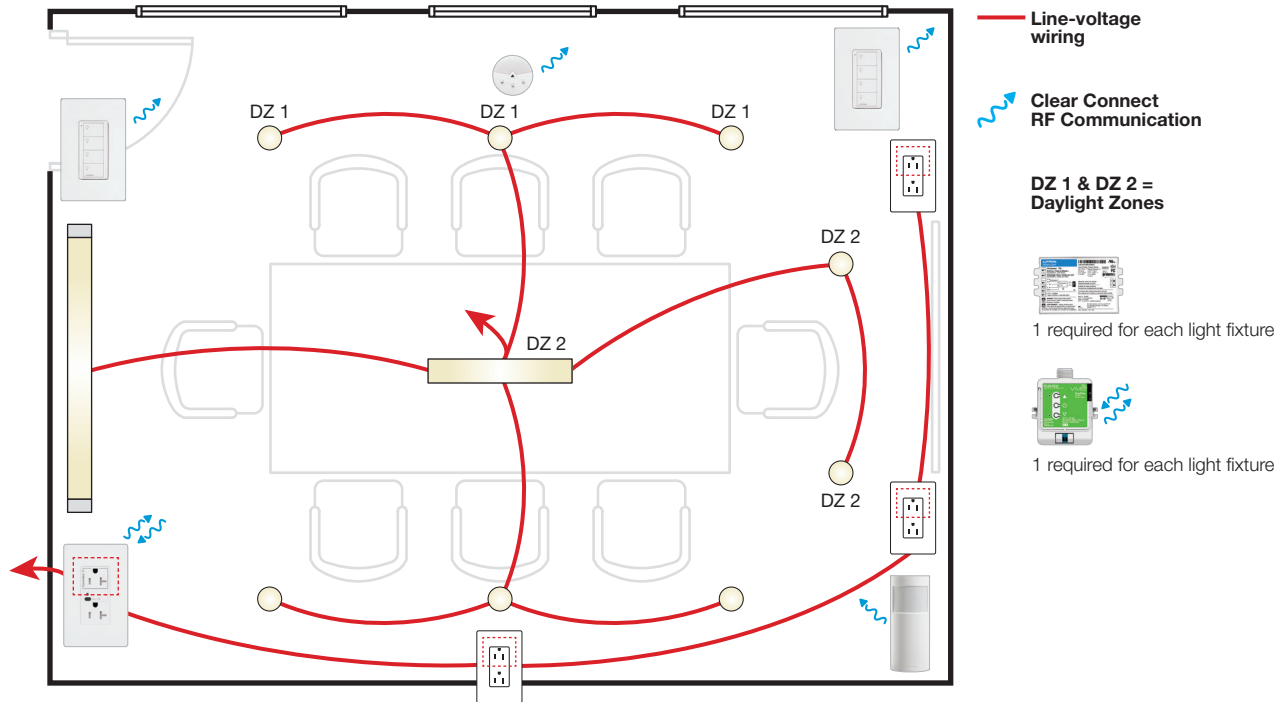




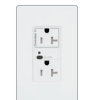




Plug Load Control

Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	Multiple	EcoSystem-enabled Hi-Lume Soft-on, Fade-to-Black series ballasts/drivers	10	Consult your local rep
	FCJS-ECO	Wireless fixture control with EcoSystem	10	\$ 91.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	1	\$ 150.00
	LRF2-VKLB-P-WH	Radio Powr Savr wireless corner-mount vacancy sensor	1	\$ 105.00
	PJ2-4B-GWH-L31	Pico wireless 4-button scene control	2	\$ 45.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Go to lutron.com/ballasttool or lutron.com/findafixture to identify the correct ballast or LED fixture for your project.

Visible System Components



Pico wireless 4-button scene control



Vive wireless receptacle



Radio Powr Savr wireless corner-mount vacancy sensor and daylight sensor

Control Functionality

Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually. Maximum light level is set to 80%.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There is one perimeter daylight zone.

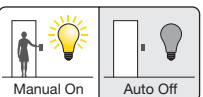
Manual: Occupant selects scenes to set desired light levels for all lights. Entry scene controller has 3 user preferred presets and 1 all off button.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

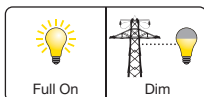
50% of all receptacles automatically turn off 15 minutes after all occupants exit.

System Events:
Demand Response: All lights automatically dim 20% during demand events.


Control Strategies



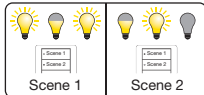
Occupancy/Vacancy




Demand Response



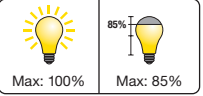
Daylight Harvesting



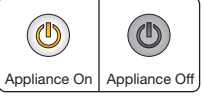
Scene Control



Personal Dimming



High-end Trim/Tuning

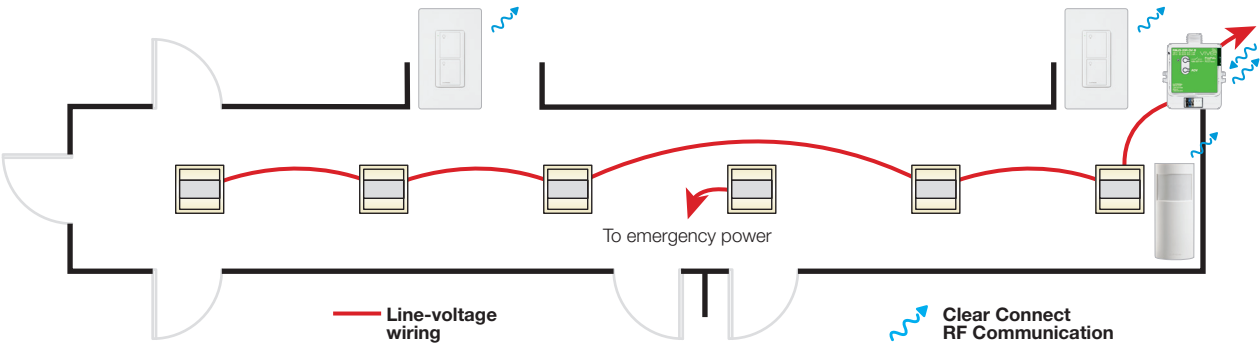





Plug Load Control

Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	1	\$ 155.00
	LRF2-OHLB-P-WH	Radio Powr Savr wireless hallway occupancy sensor	1	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Up to 0.2 W may be continuously illuminated for means of egress illumination. Local control may be not accessible to unauthorized personnel. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Pico wireless control



Radio Powr Savr wireless hallway occupancy sensor

Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level.

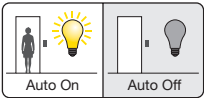
When Occupied:
Manual: Occupant uses wall switch to turn all non-emergency lights off.

Occupant Exits:
All non-emergency lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Up to 0.2 W may be continuously illuminated for means of egress illumination. Local control may be not accessible to unauthorized personnel.

Control Strategies

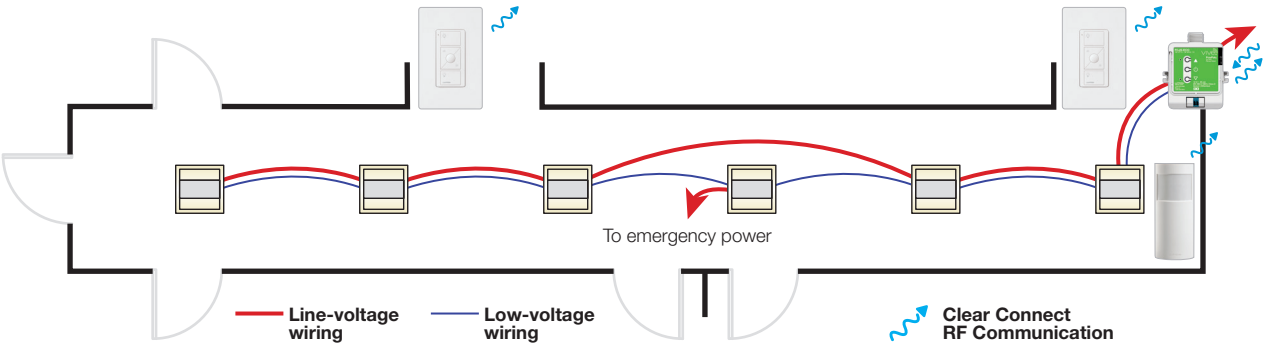


Occupancy/Vacancy

Lighting Energy Savings*

40%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	1	\$ 180.00
	LRF2-OHLB-P-WH	Radio Powr Savr wireless hallway occupancy sensor	1	\$ 105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	2	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	2	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: Verify that the egress fixtures go to full output upon loss of control signal. For projects that require UL 924 compliance, provide an automatic load control relay (ALCR) per load controller connected to emergency fixtures. Add a daylight sensor for corridors with daylight zones. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others. Up to 0.2 W may be continuously illuminated for means of egress illumination Local control may be not accessible to unauthorized personnel.

Visible System Components



Pico wireless control



Radio Powr Savr wireless hallway occupancy sensor



Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level. Maximum light level is set to 80%.

When Occupied:
Manual: Occupant uses wall dimmer to set desired light levels for all lights. Manual control cannot fully shut off the lights. Minimum light level is set to 10%.

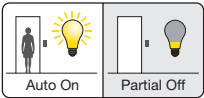
Occupant Exits:
All lights automatically go to minimum light level 15 minutes after all occupants exit.

Emergency Mode:
Lighting connected to emergency power turns on to full output.

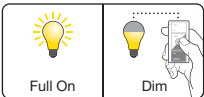
System Events:
Demand Response: All lights automatically dim 20% during demand response event. Demand response cannot shut off the lights.

Code Notes: For non-egress corridors, set the minimum light level to full off. Up to 0.2 W may be continuously illuminated for means of egress illumination. Local control may be not accessible to unauthorized personnel.

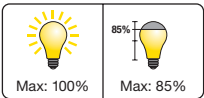
Control Strategies



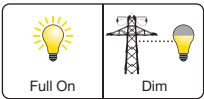
Occupancy/Vacancy



Personal Dimming



High-end Trim/Tuning

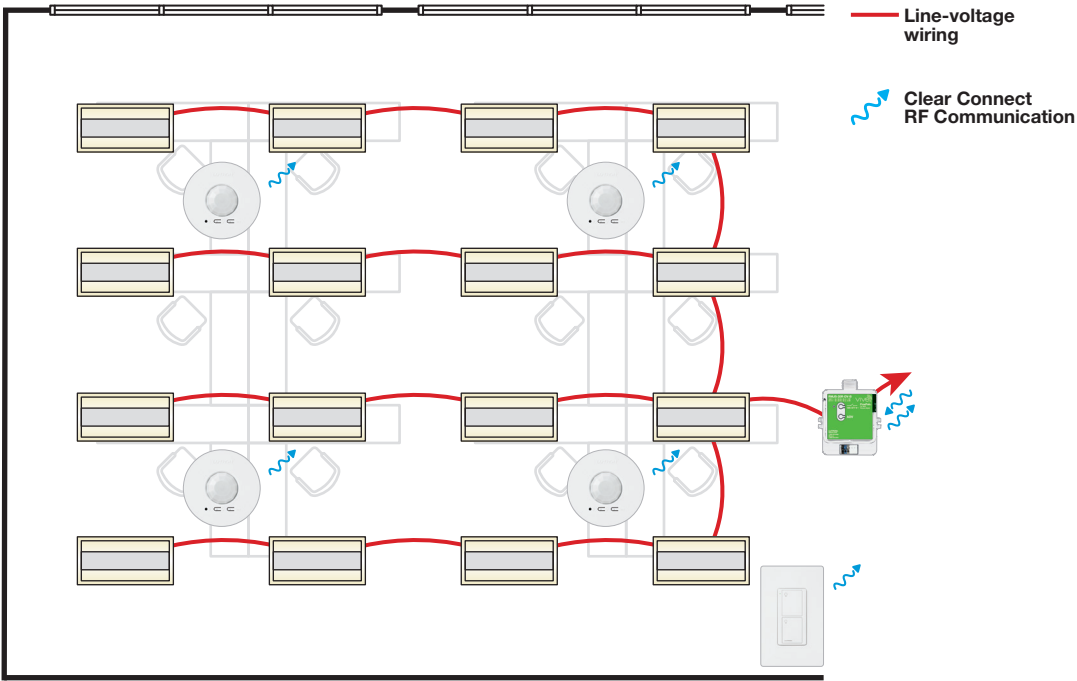





Demand Response

Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	1	\$ 155.00
	LRF2-OCR2B-P-WH	Radio Powr Savr wireless ceiling-mount occupancy sensor	4	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Pico wireless control



Radio Powr Savr wireless ceiling-mount occupancy sensor

Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level.

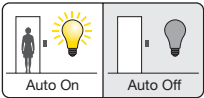
When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.



Control Strategies



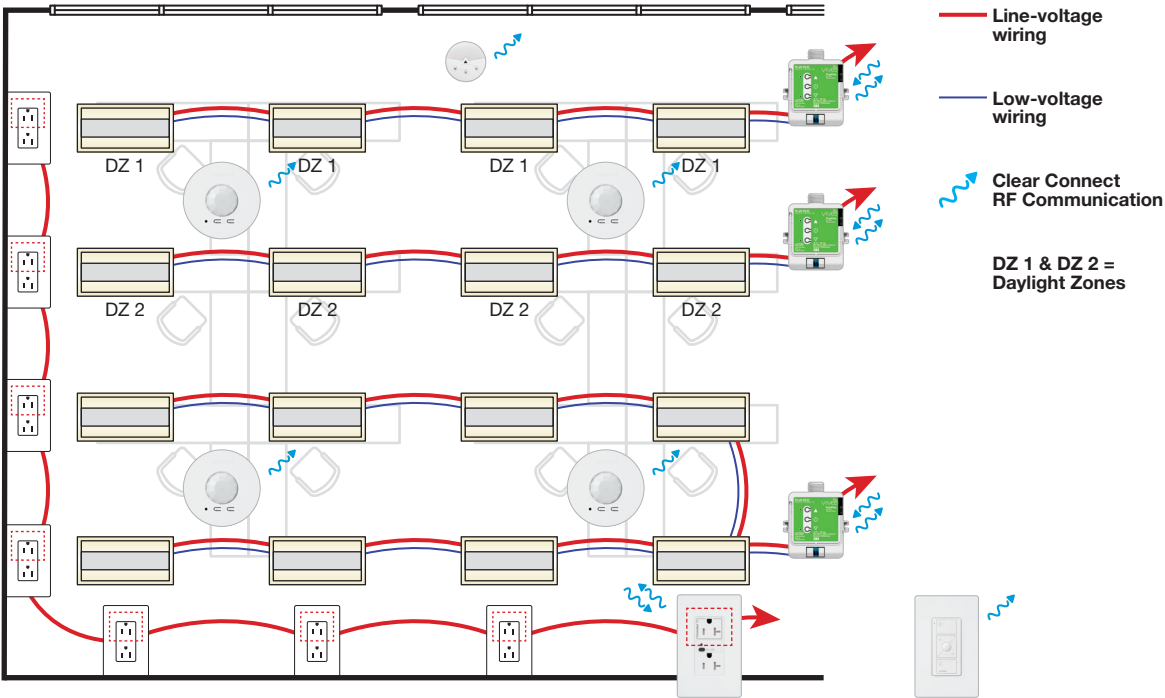
Occupancy/Vacancy







Lighting Energy Savings*

35%

* Go to lutron.com/references for more information.


Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.



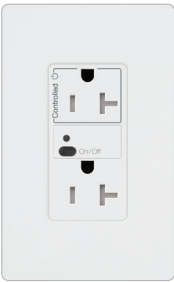
Symbol	Model Number	Description	Qty	List Price Each
	RMJS-8T-DV-B	PowPak dimming module with 0-10V	3	\$ 180.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	LRF2-DCRB-WH	Radio Powr Savr wireless daylight sensor	1	\$ 150.00
	LRF2-OCR2B-P-WH	Radio Powr Savr wireless ceiling-mount occupancy sensor	4	\$ 105.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: For non-daylit open offices, all general lighting can be connected to a single 0-10V dimming module. Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.


Visible System Components



Pico wireless control



Vive wireless receptacle



Radio Powr Savr wireless ceiling-mount occupancy sensor and daylight sensor

Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level. Maximum light level is set to 80%.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

Manual: Occupant uses wall dimmers to set desired light levels for all lights.

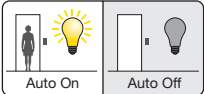
Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

50% of all receptacles automatically turn off 15 minutes after all occupants exit.

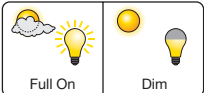
System Events:
Demand Response: All lights automatically dim 20% during demand response event.

Code Notes: For non-daylit open offices, all general lighting can be connected to a single 0-10V dimming module.

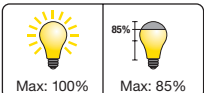
Control Strategies



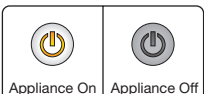
Occupancy/Vacancy



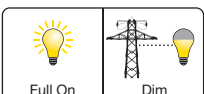
Daylight Harvesting



High-end Trim/Tuning



Plug Load Control

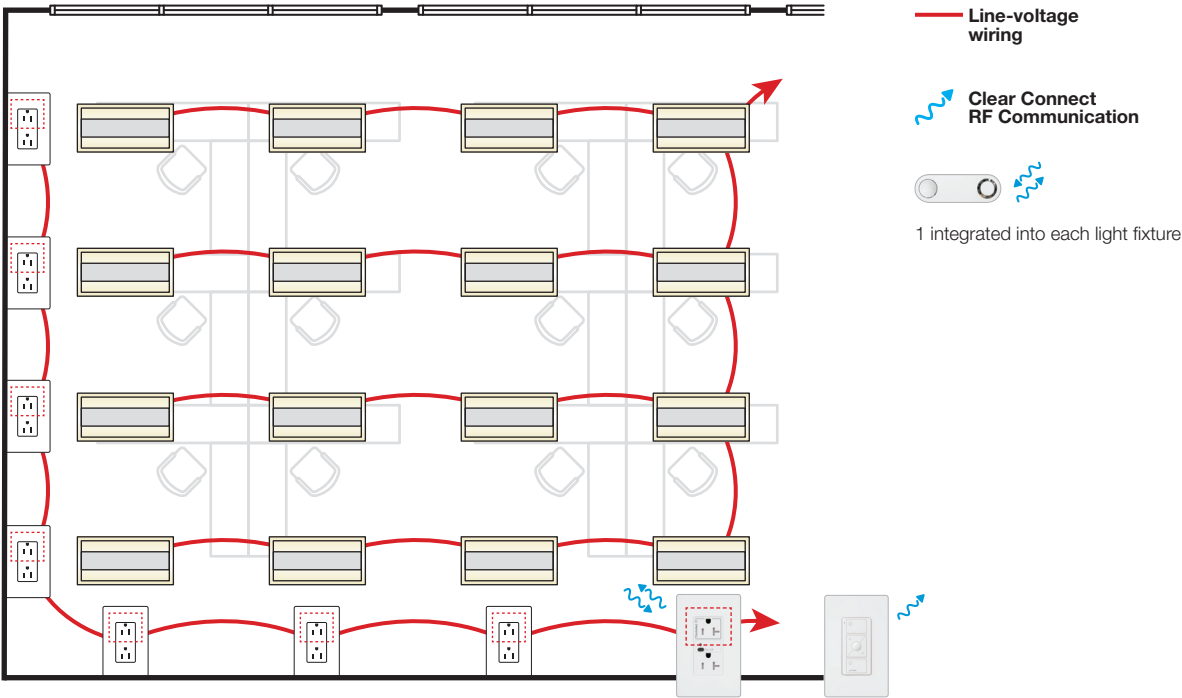


Demand Response

Lighting Energy Savings*

55%

* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	Integral to fixture ¹	Integral fixture control with sensor	16	\$ 78.00 ²
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

1 Fixture control comes pre-installed in fixture. Look for the Clear Connect Wireless symbol for fixtures containing this module. Go to lutron.com/findafixture for a complete list of compatible fixtures and drivers.
2 Fixture adder for the control module may vary.



This solution requires digitally enabled ballasts and drivers by others.

Visible System Components

Pico wireless control

Vive wireless receptacle

Integral fixture control with sensor

Control Functionality

Occupant Enters:
Each individual light automatically turns on to 50% light level as occupant approaches fixture proximity.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Automatic: Each individual overhead light dims/brightens based on local daylight availability.

Manual: Occupant uses wall dimmer to set desired light levels for all lights. Maximum light level is set to 80%.

Occupant Exits:
Each individual light automatically turns off 15 minutes after all occupants exit fixture proximity.

50% of all receptacles automatically turn off 15 minutes after all occupants exit.

System Events:
Demand Response: All lights automatically dim 20% during demand events.



Control Strategies

Occupancy/Vacancy

Daylight Harvesting

High-end Trim/Tuning

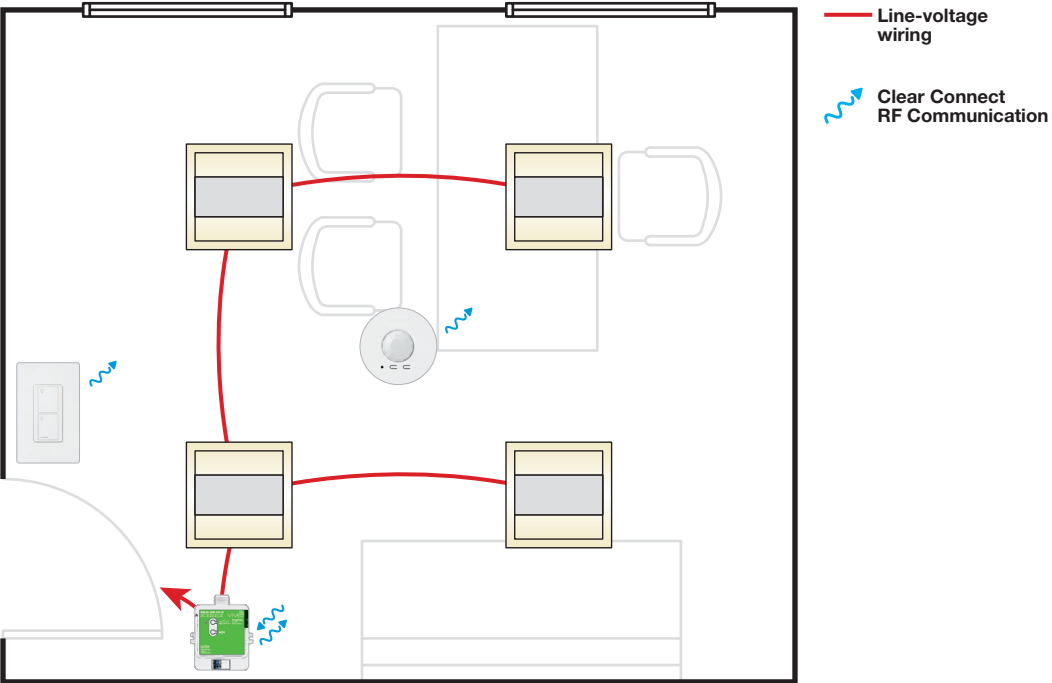
Plug Load Control




Demand Response

Lighting Energy Savings*

60%

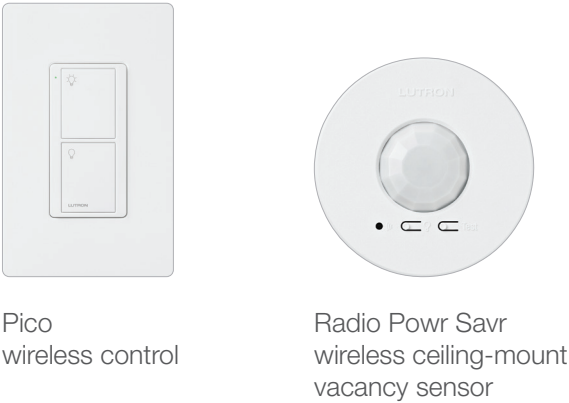
* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak dimming module	1	\$ 155.00
	LRF2-VCR2B-P-WH	Radio Powr Savr wireless ceiling-mount vacancy sensor	1	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Control Functionality

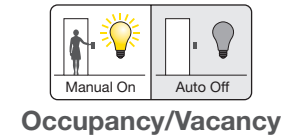
Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually.

When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.

Control Strategies

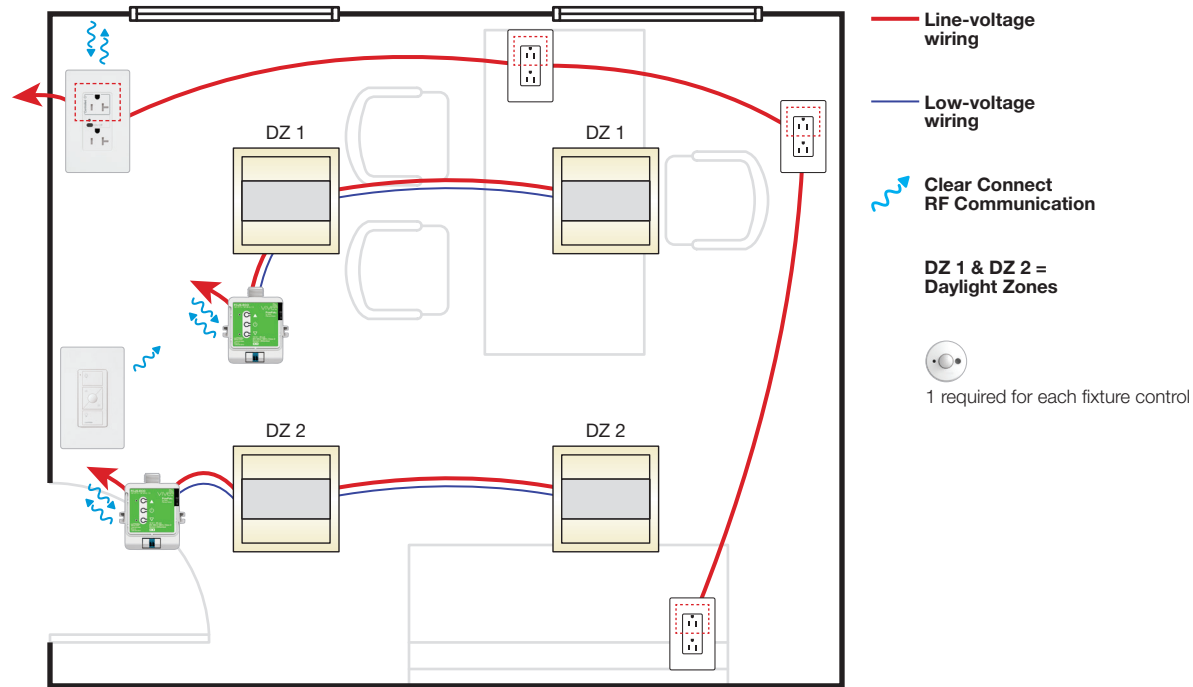







Lighting Energy Savings*

30%

* Go to lutron.com/references for more information.

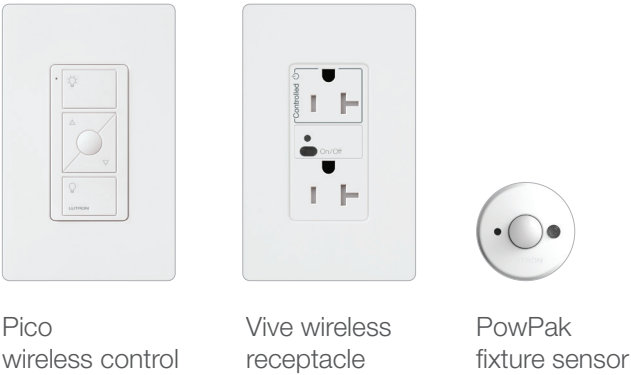
Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power.



Symbol	Model Number	Description	Qty	List Price Each
	FCJS-010	Wireless fixture control with 0-10V	2	\$ 91.00
	CAR2S-20-STR-WH	Vive wireless receptacle	1	\$ 230.00
	FC-SENSOR	PowPak fixture sensor	2	\$ 40.50
	PJ2-3BRL-GWH-L01	Pico wireless 3-button with raise/lower control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

FCJS models are capable of controlling up to 3 ballasts or drivers. Review the "Vive PowPak Fixture Controls" submittal document for more design details. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others.

Visible System Components



Control Functionality

Occupant Enters:
Lights do not automatically turn on when an occupant enters the space; lights must be turned on manually. Maximum light level is set to 80%.

Controlled receptacles automatically regain power when occupant enters.

When Occupied:
Automatic: Overhead lights dim/brighten based on daylight availability. There are two perimeter daylight zones.

Manual: Occupant uses wall dimmer to set desired light levels for all lights.

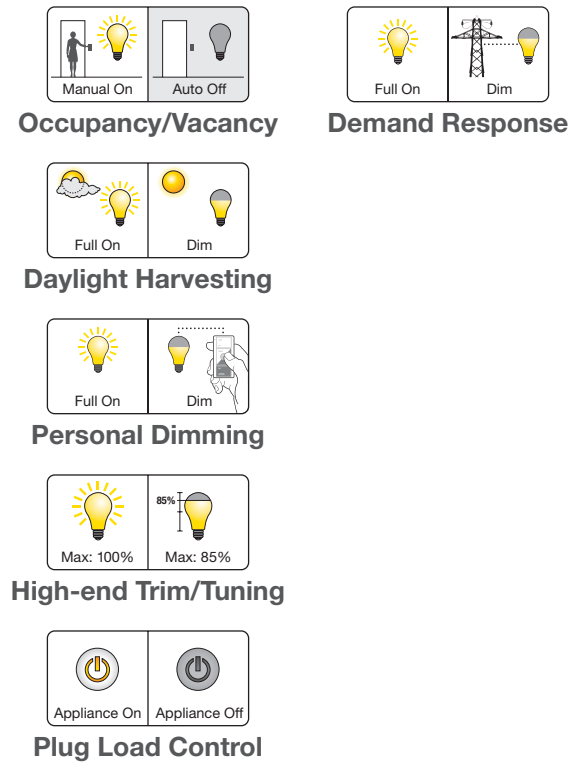
Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

50% of all receptacles automatically turn off 15 minutes after all occupants exit.

System Events:
Demand Response: All lights automatically dim 20% during demand events.



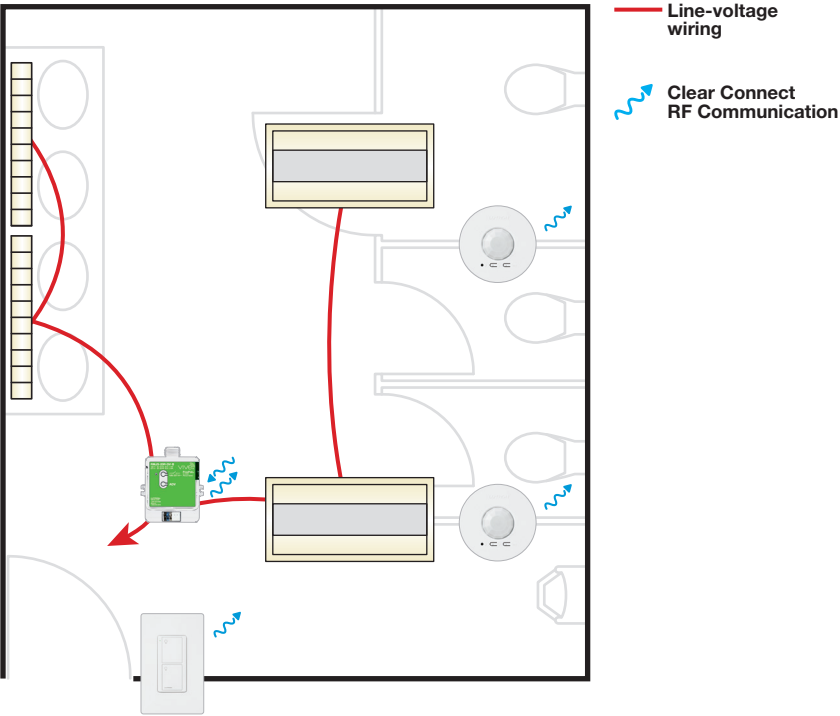
Control Strategies






Lighting Energy Savings*

60%

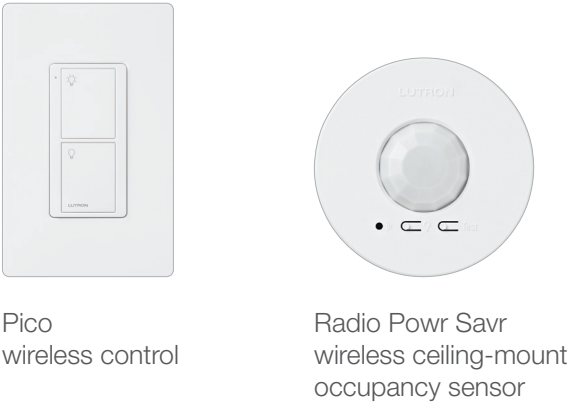
* Go to lutron.com/references for more information.



Symbol	Model Number	Description	Qty	List Price Each
	RMJS-16R-DV-B	PowPak switching module	1	\$ 155.00
	LRF2-OCR2B-P-WH	Radio Powr Savr wireless ceiling-mount occupancy sensor	2	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button control	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50

Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Local control may be not accessible to unauthorized personnel. Want to add a Vive wireless hub for more features? Go to lutron.com/vive for complete compatibility and design details.

Visible System Components



Control Functionality

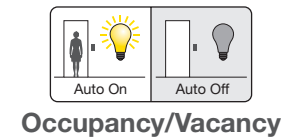
Occupant Enters:
All lights automatically turn on to maximum light level.

When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

Add a Vive wireless hub to enable simple setup and rezoning, system monitoring, timeclock functionality, and advanced integration.

Control Strategies

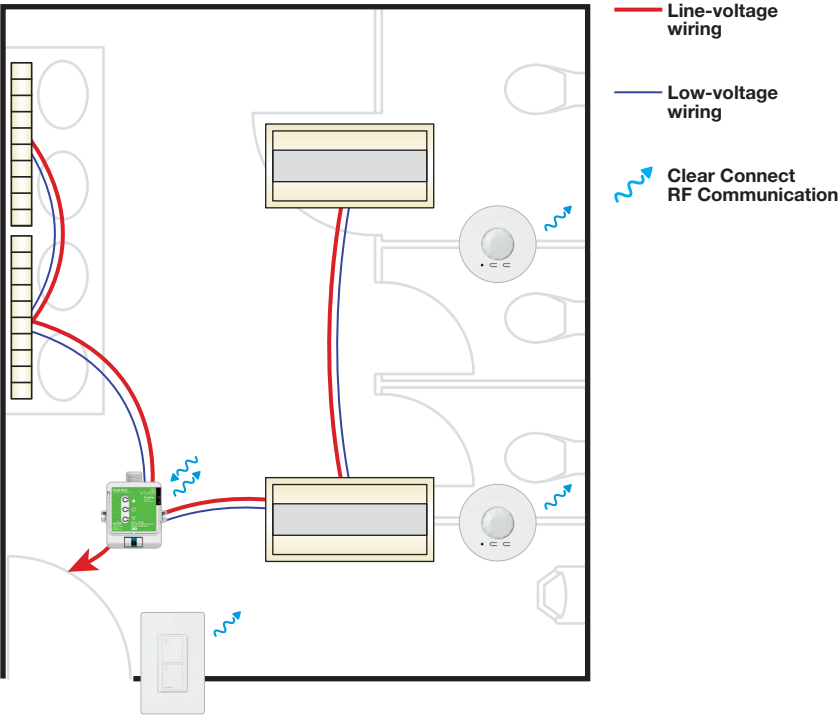





Lighting Energy Savings*

50%

* Go to lutron.com/references for more information.

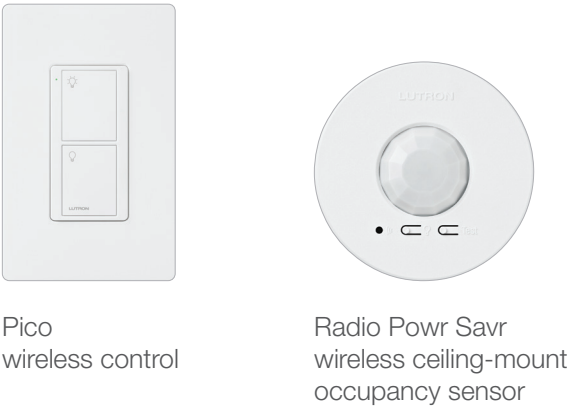
Code Notes: Retrofit requirements indicated are for lighting alterations which replace more than 10% of the number of luminaries in the space, and use less than 80% of the maximum allowed lighting power. Or one-for-one luminaire replacements for buildings or tenant spaces less than 5,000 ft² when new lighting power is 40% lower than previous lighting power. Local control may be not accessible to unauthorized personnel.



Symbol	Model Number	Description	Qty	List Price Each
	LRF2-OCR2B-P-WH	Radio Powr Savr wireless ceiling-mount occupancy sensor	2	\$ 105.00
	PJ2-2B-GWH-L01	Pico wireless 2-button	1	\$ 27.00
	PICO-WBX-ADAPT	Pico wallbox adapter	1	\$ 9.50
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

Code Notes: Add a daylight sensor for restrooms with daylight zones. Go to lutron.com/vive for complete compatibility and design details. This solution requires 0-10V enabled ballasts and drivers by others. Local control may be not accessible to unauthorized personnel.

Visible System Components



Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level. Maximum light level is set to 80%.

When Occupied:
Manual: Occupant uses wall switch to turn all lights off.

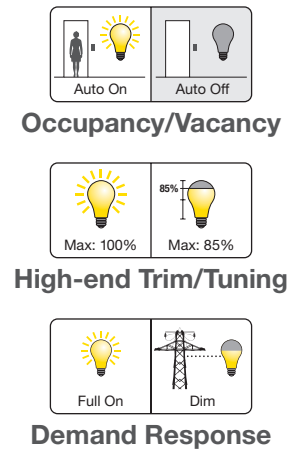
Occupant Exits:
All lights automatically turn off 15 minutes after all occupants exit.

System Events:
Demand Response: All lights automatically dim 20% during demand events.

Code Notes: Add a daylight sensor for restrooms with daylight zones. Local control may be not accessible to unauthorized personnel.



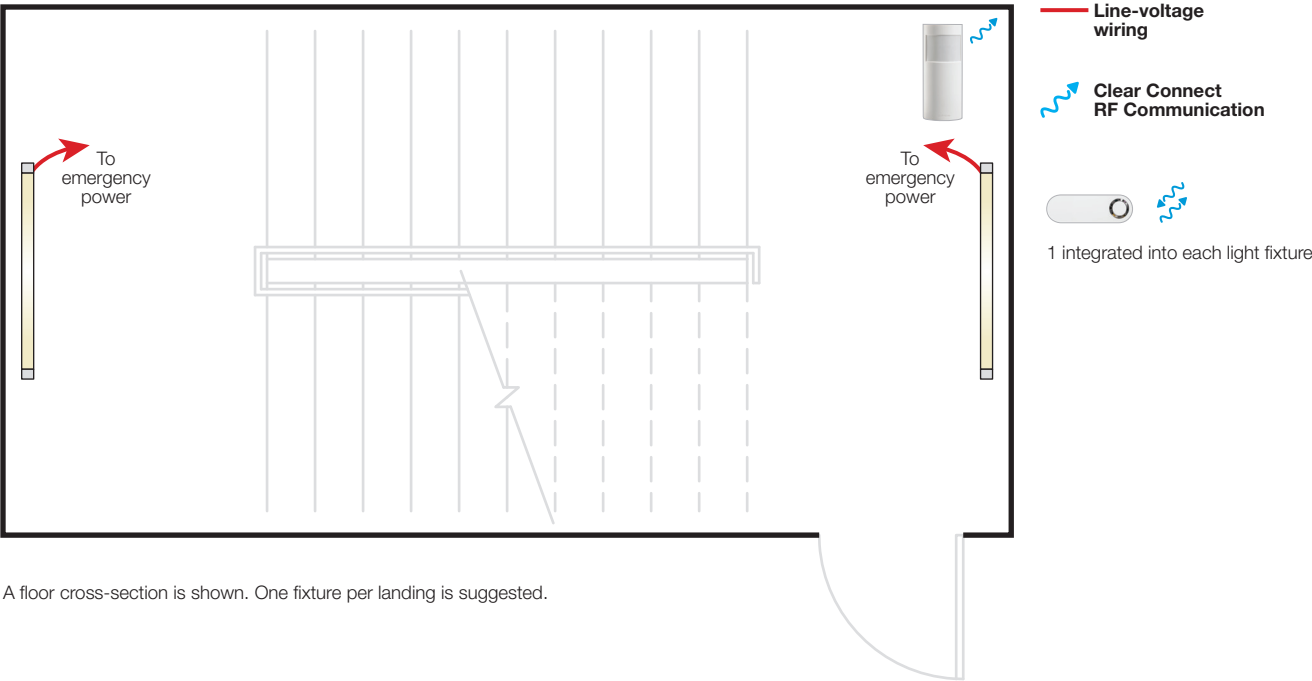
Control Strategies



Lighting Energy Savings*

60%

* Go to lutron.com/references for more information.



A floor cross-section is shown. One fixture per landing is suggested.

Symbol	Model Number	Description	Qty	List Price Each
		Integral to fixture ¹	2 (per floor)	\$ 67.00 ²
	LRF2-OKLB-P-WH	Radio Powr Savr wireless corner-mount occupancy sensor	1 (per floor)	\$ 105.00
	HJS-1-FM	Vive wireless hub	Shared	Consult your local rep for hub pricing and service options.

1. Fixture control comes pre-installed in fixture. Look for the Clear Connect Wireless symbol for fixtures containing this module. Go to lutron.com/findafixture for a complete list of compatible fixtures and drivers.
2. Fixture adder for the control module may vary.



Code Notes: Verify that the egress fixtures go to full output upon loss of control signal. For projects that require UL 924 compliance, provide an automatic load control relay (ALCR) per load controller connected to emergency fixtures. Add a daylight sensor for stairwells with daylight zones. This solution requires digitally enabled ballasts and drivers by others. Go to lutron.com/vive for the latest compatibility details. Up to 0.2 W may be continuously illuminated for means of egress illumination. Local control may be not accessible to unauthorized personnel.

Visible System Components



Radio Powr Savr wireless corner-mount occupancy sensor

Integral fixture control

Control Functionality

Occupant Enters:
All lights automatically turn on to maximum light level. Maximum light level is set to 80%.

Occupant Exits:
All lights dim to minimum light level 15 minutes after all occupants exit. Minimum light level is set to 10%.

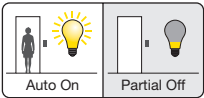
Emergency Mode:
Lighting connected to emergency power turns on to full output.

System Events:
Demand Response: All lights automatically dim 20% during demand response event. Demand response cannot shut off the lights.

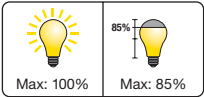
Code Notes: For non-egress stairwells, set the minimum light level to full off. Up to 0.2 W may be continuously illuminated for means of egress illumination. Local control may be not accessible to unauthorized personnel.



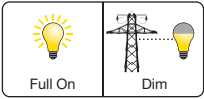
Control Strategies



Occupancy/Vacancy



High-end Trim/Tuning



Demand Response

Lighting Energy Savings*

80%

* Go to lutron.com/references for more information.

Notes

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