synergy

SOLUTIONS | SERVICE | EXPERTISE

Redefining the Rep Model

synergyelectricalsales.com

# AT A GLANCE

**60** team members

**70K** square feet in our PA warehouse

**21** years since Synergy founded

**80+** years of history in the electrical industry

## INDUSTRIES SERVED

- Commercial
- Industrial
- Institutional
- Residential

# SPECIALTY SERVICES

Our teams of specialists are equipped to tackle any challenge or custom request you may have. Some of our services are listed below.

## ARCHITECTURAL DESIGN SERVICES

- Controls Design
- Integration Design & Spec
- Post Occupancy Assurance
- Natural Light Control Experts
- Architectural Lighting Experts
- Lighting Layouts
- Written CSI Spec Support
- Onsite Programming & System Optimization

## DESIGN BUILD + END USER SERVICES

- Residential Systems
- Field Design Services
- Design Assist Contractor & Engineering Support
- Design Build Support
- Energy Proposals
- Existing Building Lighting Layouts
- Extended Warranties
- System Performance Measurement

## ELECTRICAL WHOLESALE CHANNEL SERVICES

- Account Merchandising
- Joint Call Lead Generation
- Promotional Execution
- Program Implementation
- Construction Alignment
- Co-Op Management
- NYC, PHL, DC Warehouse & Freight Capabilities

← menu

# Lutron's History (Est. 1961)

## Many "Firsts"

- 1959 – Rotary Dimmer Invented
- 1971 – Nova Linear Slide Dimmer
- 1972 – First Elec. Solid State Dim Ballast
- 1989 – RanaX Infrared Dimmer
- 1990 – NeTwork Home System
- 1992 – Maestro micro processor based dimmer
- 1993 – Serena Low Volt Shade System
- 1993 – Grafik Eye Custom Dimming System
- 1997 – RadioRa two-way radio frequency system
- 2006 – Quantum with Ecosystem Whole Building
- 2008 – Clear Connect RF
- 2011 – Energi Tri Pak
- 2016 – Vive

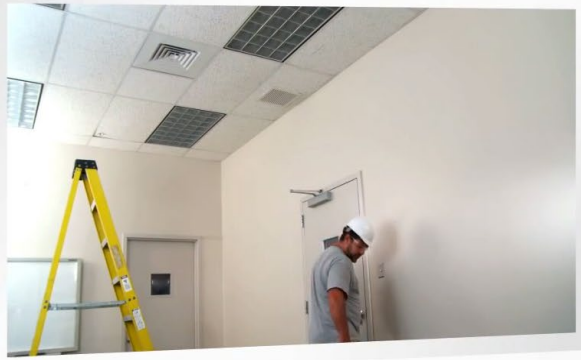
VIVE

LUTRON

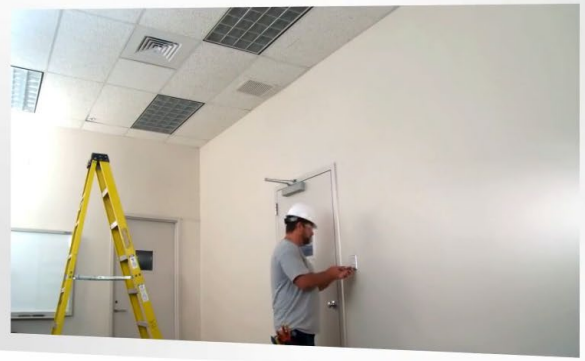
# Product & Specification Training

# Vive Wireless Installs 70% Faster Than Wired Systems

## Wired



## Wireless



VS

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# Vive is perfect for…

1. Energy code compliance
2. Basic energy savings
3. Retrofits
4. Tight budgets

Vive wireless controls work for every commercial building, new and existing.

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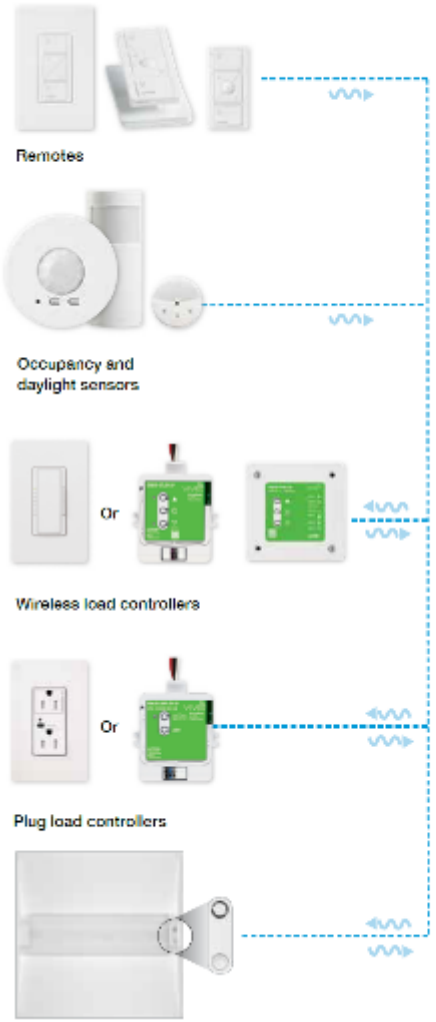
# It just works

*Not all wireless is created equal*

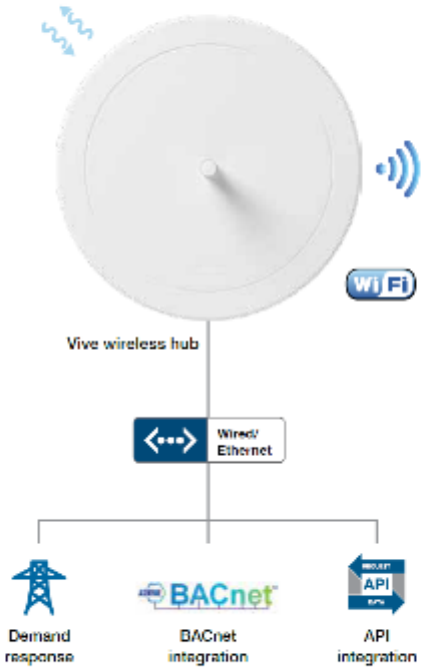
- Lutron developed the first wireless control systems in 1996
- Designed to be as reliable as any wired system
- Vive was developed in 2016, based on several key Lutron technologies that ensure reliability and performance

# Vive – System Architecture

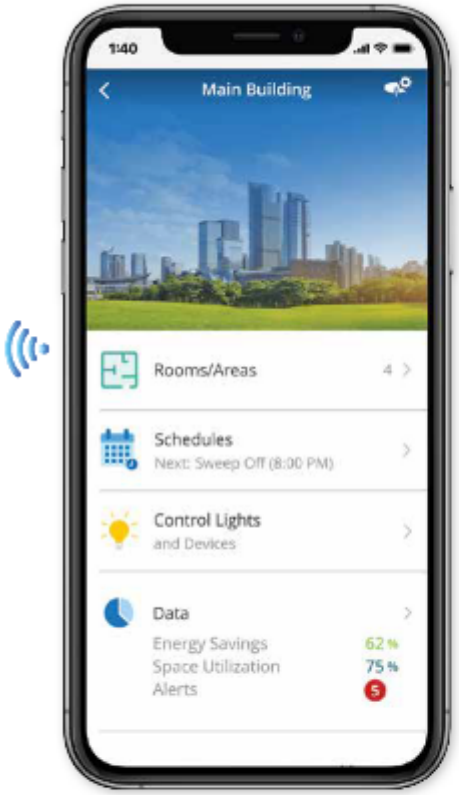
Flexible, wireless controls and sensors for simple, code-compliant design




Add wireless hubs for centralized control and integration (optional)




Simple-to-use software




Vive software

Communication protocols

Clear Connect. — Communicate via RF to control components

Wi Fi — Communicate via WiFi to smart devices

Communicate via wired Ethernet to Vive hub

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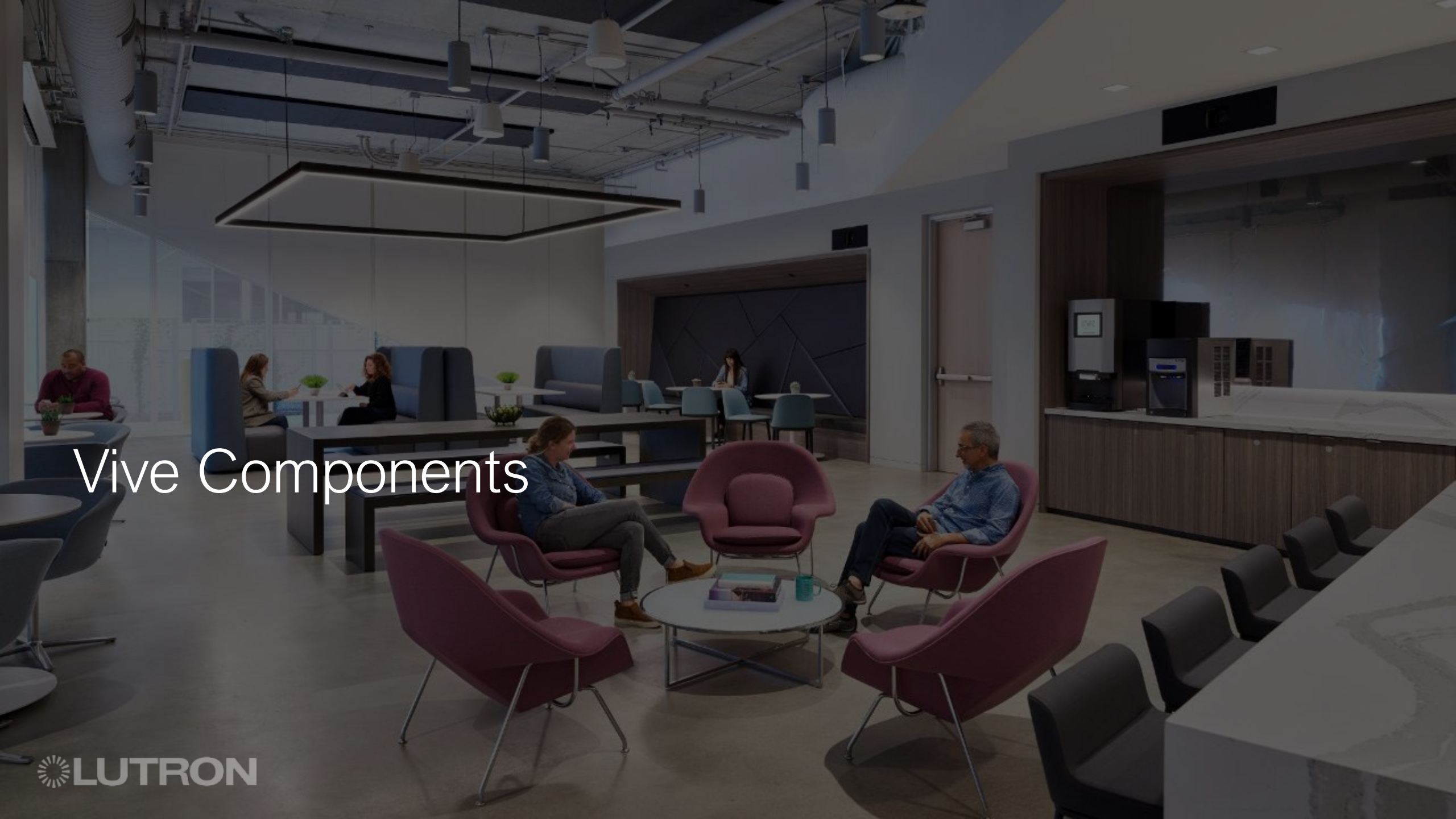

# Vive Components

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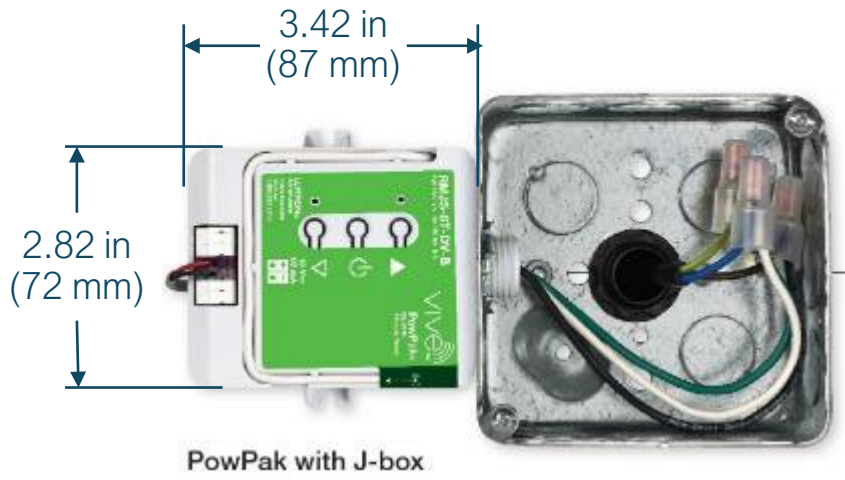
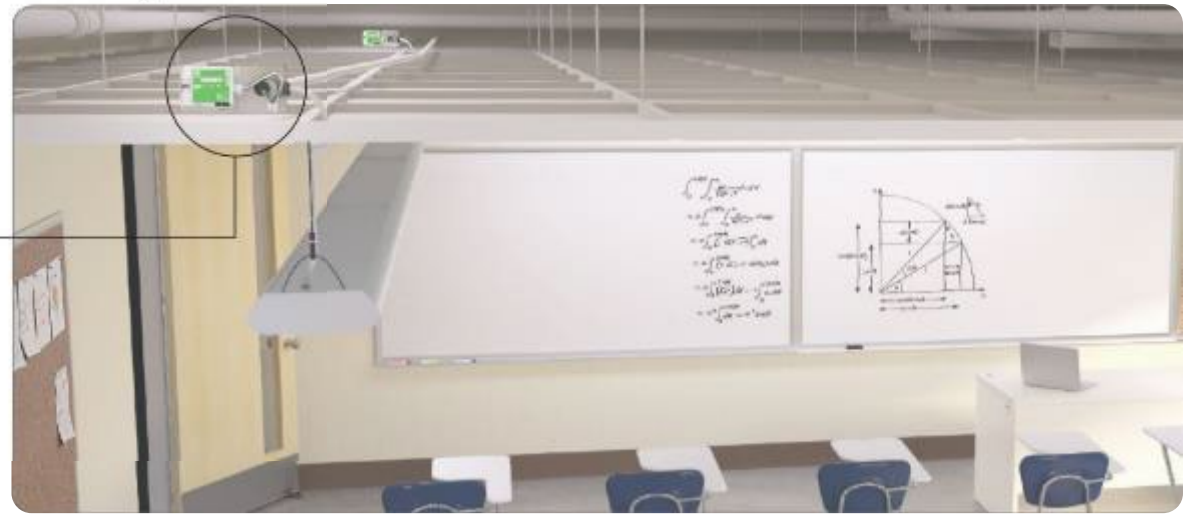
# PowPak – Ceiling/J-Box mount remote load controllers

Installs to a standard junction box to eliminate wiring in the walls.




PowPak with J-box

Ceiling mount



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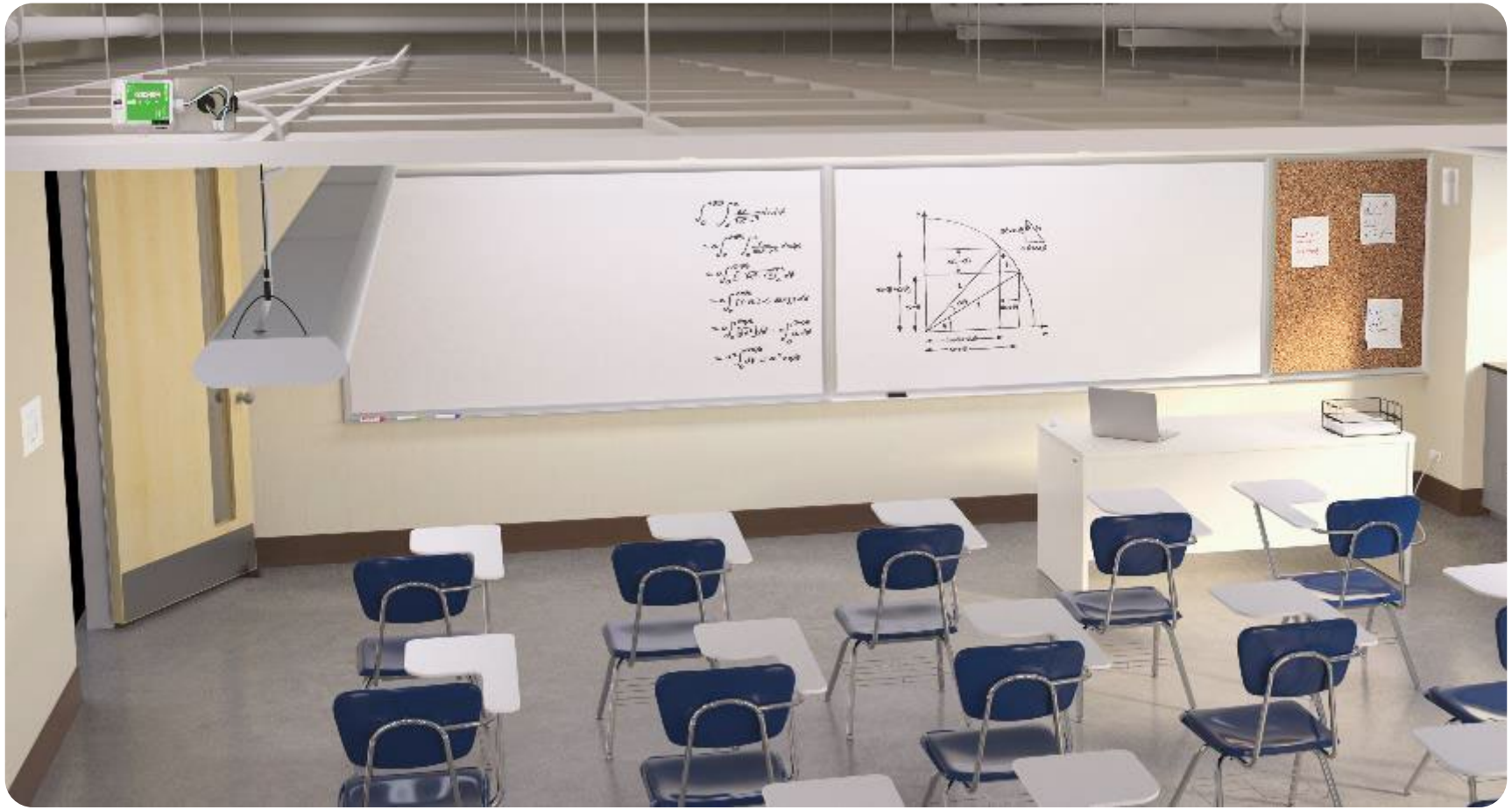
# Ceiling controls



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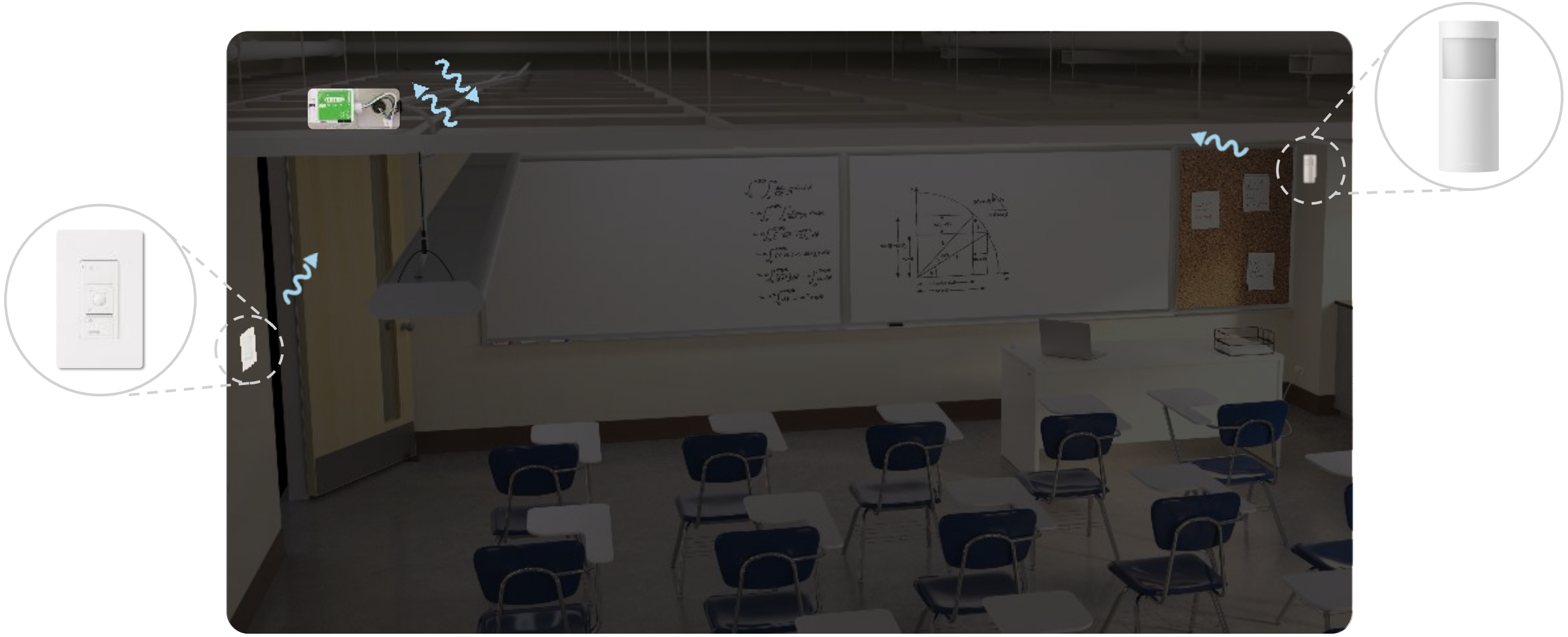
# Reliable wireless communication



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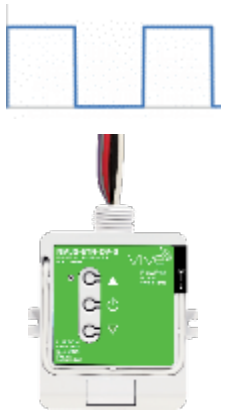
# PowPak Modules

## Line Voltage Switched

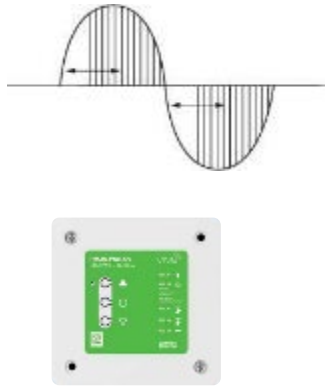
- 5R
- 16R
- 20R

## DC Analog Dimming



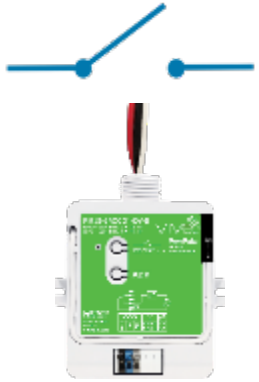
- 0-10V flying leads
- 0-10V term block

## Live Voltage Phase Dimming



- PRO LED+ technology

## Contact Closure Output CCO



- 24V CCO
- 16R + CCO
- 20R + CCO

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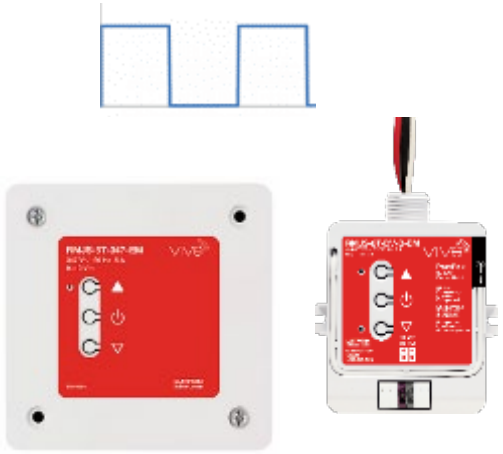
# Emergency PowPak Modules

## Line Voltage Switched

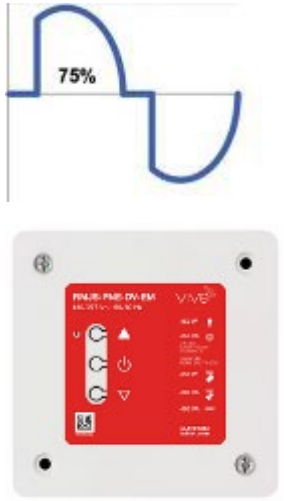
- 16R PowPak

## DC Analog Dimming



- 0-10V flying leads
- 0-10V term block

## Phase Dimming




- Phase Select PowPak Module 450W 120V/277V 4x4 mount

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# Ceiling/4x4 Box Remote Load Controllers

- Install in standard 4x4 junction boxes
- Can mount horizontally or vertically
- Can be mounted in plenum space

# Ceiling/4x4 Box Remote Load Controllers

- Install in standard 4x4 junction boxes
- Can mount horizontally or vertically
- Can be mounted in plenum space

# Maestro wall control

Maestro dimmers/switches mount in a wallbox and replace an existing switch without running new wires

Wireless switch/dimmer

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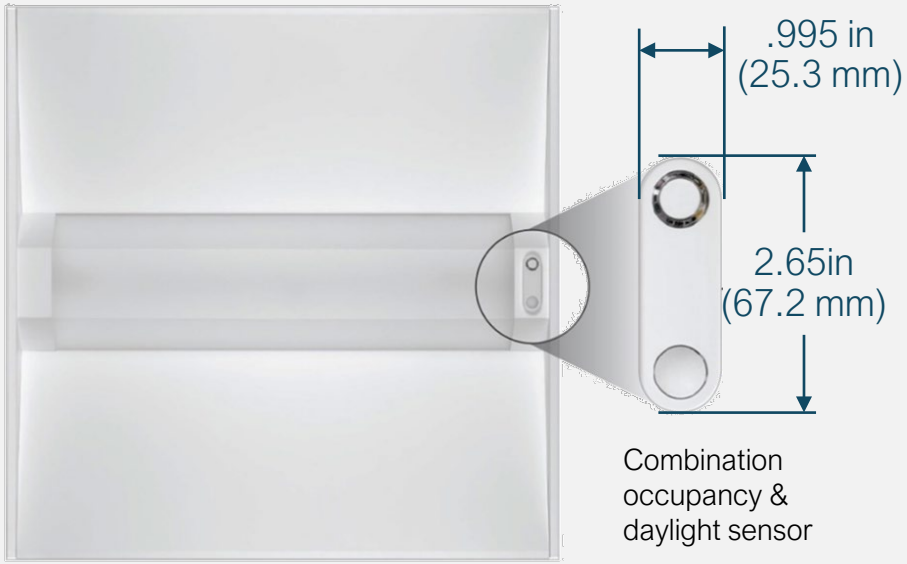
# Individual Fixture Control Options

## PowPak wireless fixture control

Combination occupancy & daylight sensor

## Integral fixture control




Combination occupancy & daylight sensor

# Vive Emergency, Now in 5 Easy Steps!

Step 1: Put Green PowPaks and in-wall sensors on Normal

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# Vive Emergency, Now in 5 Easy Steps!

Step 2: Put EM PowPaks on EM (Generator or Inverter; doesn't mater)

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# Vive Emergency, Now in 5 Easy Steps!

## Step 3:  Put Vive Hub on EM inverter

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# Vive Emergency, Now in 5 Easy Steps!

Step 4:  Connect the LUT-ELI to the Hub, powered by inverter and monitor Normal power.

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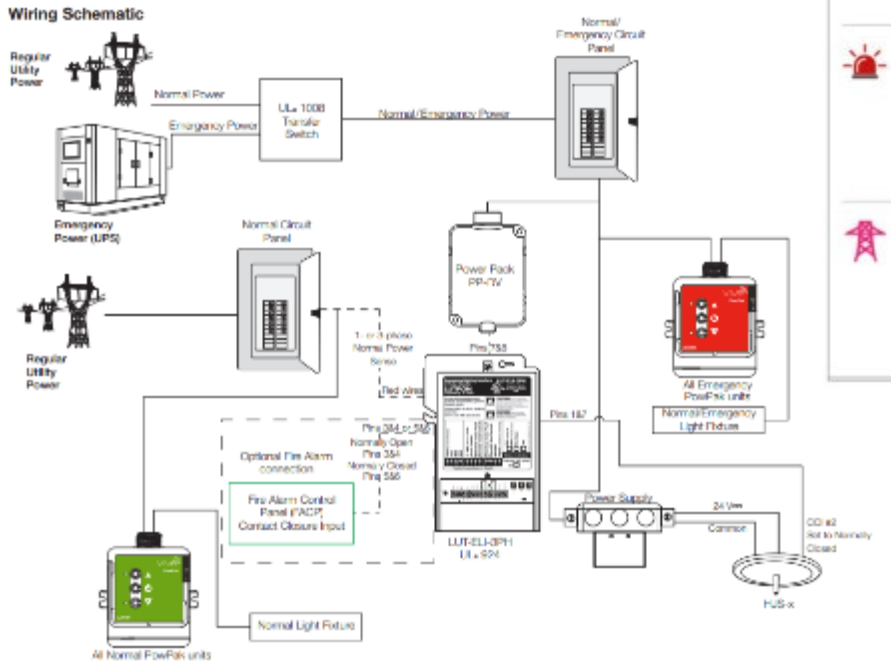
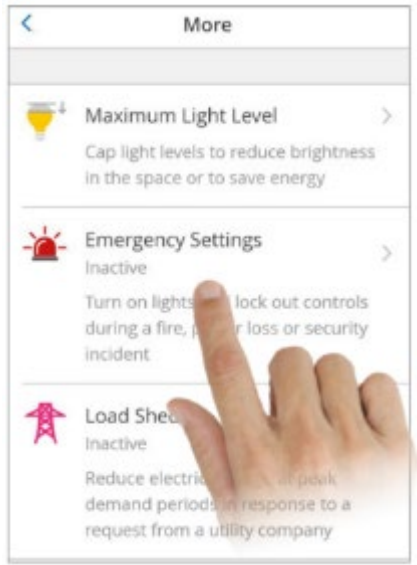
# Vive Emergency, Now in 5 Easy Steps!

Step 5:  Start-up the project and enjoy your space!

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# Pico wireless remotes

- Pico wireless remotes let you put controls where you need them – even without a wallbox
  - Multiple engraving, color, and button configuration options available

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# Set the level you need

On/Off
PJ2-2B

Dim
PJ2-3BRL

Set a scene
PJ2-3BRL

Wall mount

Tabletop

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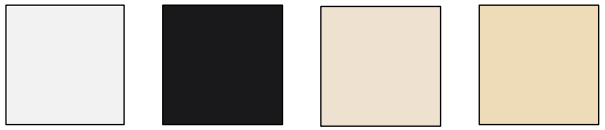
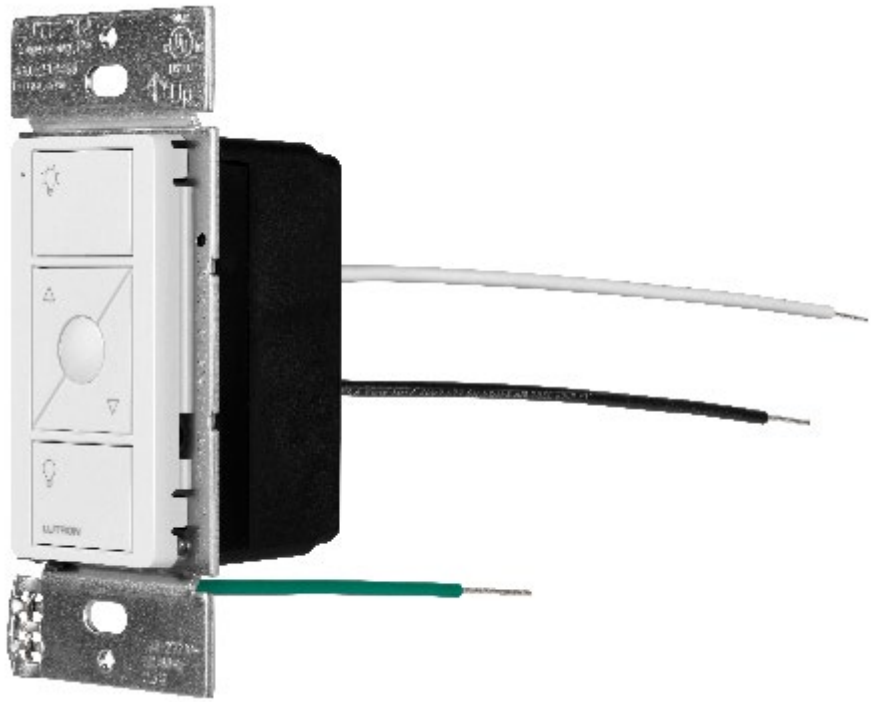
# **New!** Line-Powered Pico wireless control

Provides a battery-free keypad solution for Vive customers

- 120-277V~ (neutral required)
- 2B, 2BRL, & 3BRL button configurations
- North America (434 MHz only) – USA, Canada, Mexico
- Available in (gloss) white, black, ivory, light almond





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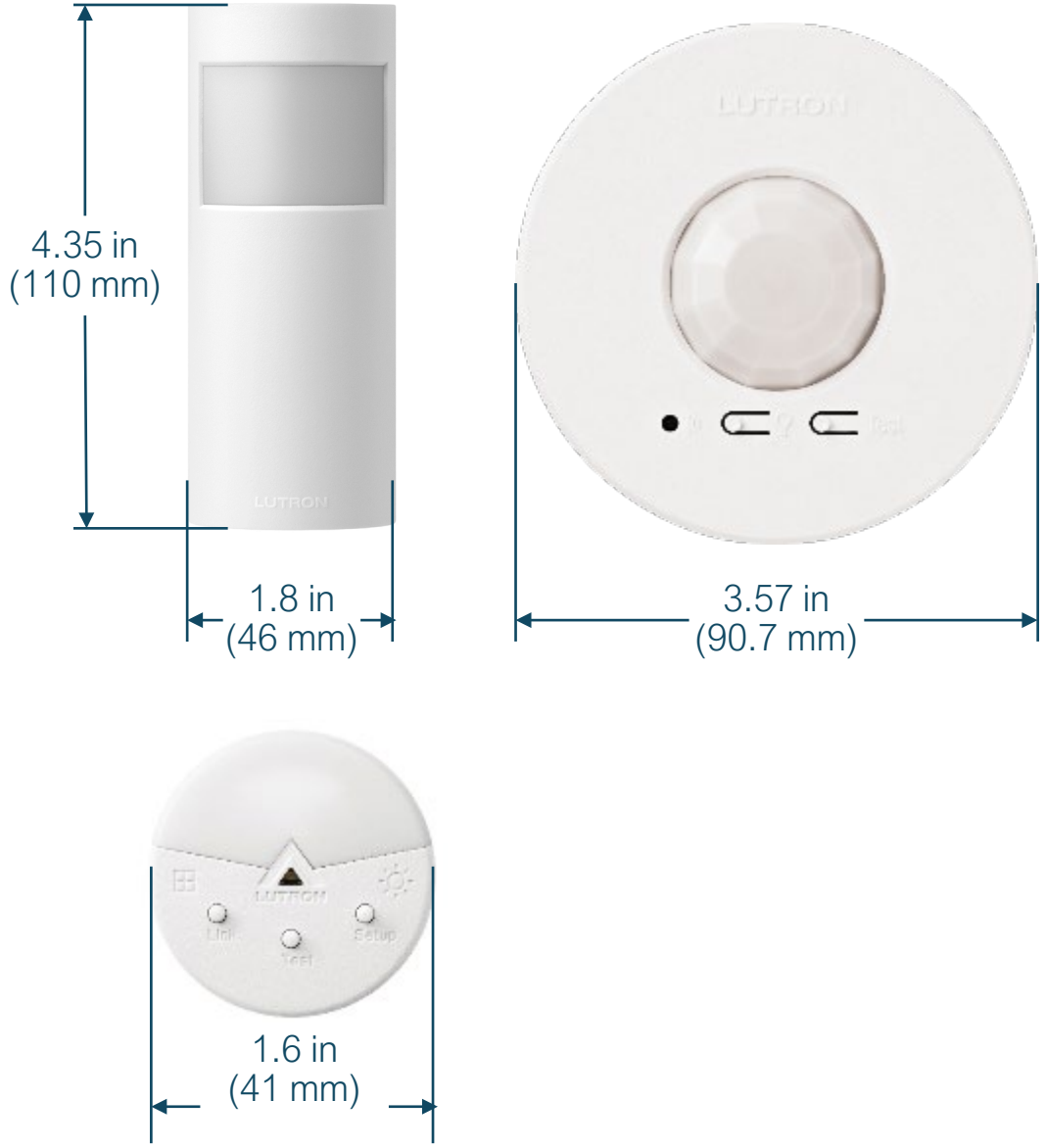
# Wireless sensors

Wireless sensors are available in many configurations to fit your application:

- Ceiling Mount Occupancy/Vacancy
- Corner Mount Occupancy/Vacancy
- Hallway Occupancy/Vacancy
- Wireless Daylight Sensor

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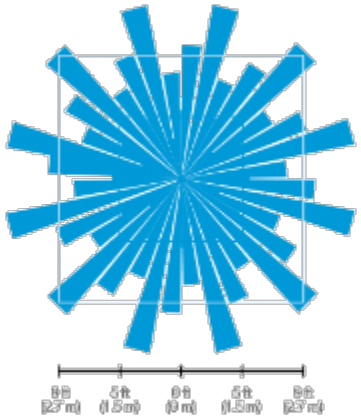
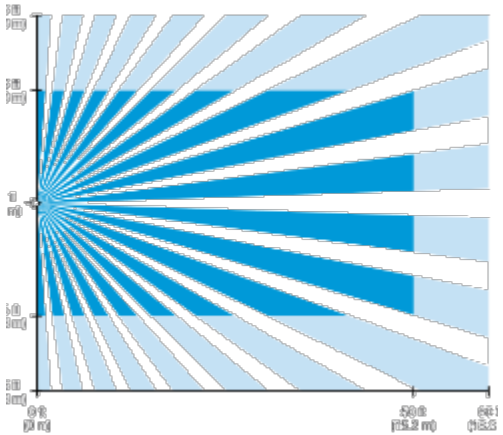
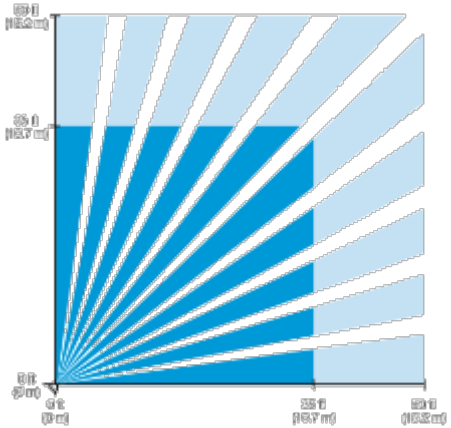
# Wireless sensors

| | Ceiling | Wall | Corner | Hallway |
|---|---|---|---|---|
| | 324 ft² @ H = 8 ft<br>676 ft² @ H = 12 ft | 1,500 ft² – minor motion<br>3,000 ft² – major motion | 1,500 ft² – minor motion<br>3,000 ft² – major motion | Coverage varies by hallway dimensions |
| Coverage: |  |  |  | |
| Product: | | | | |
| | LRF2-OCR2B | LRF2-OWLB | LRF2-OKLB | LRF2-OHLB |

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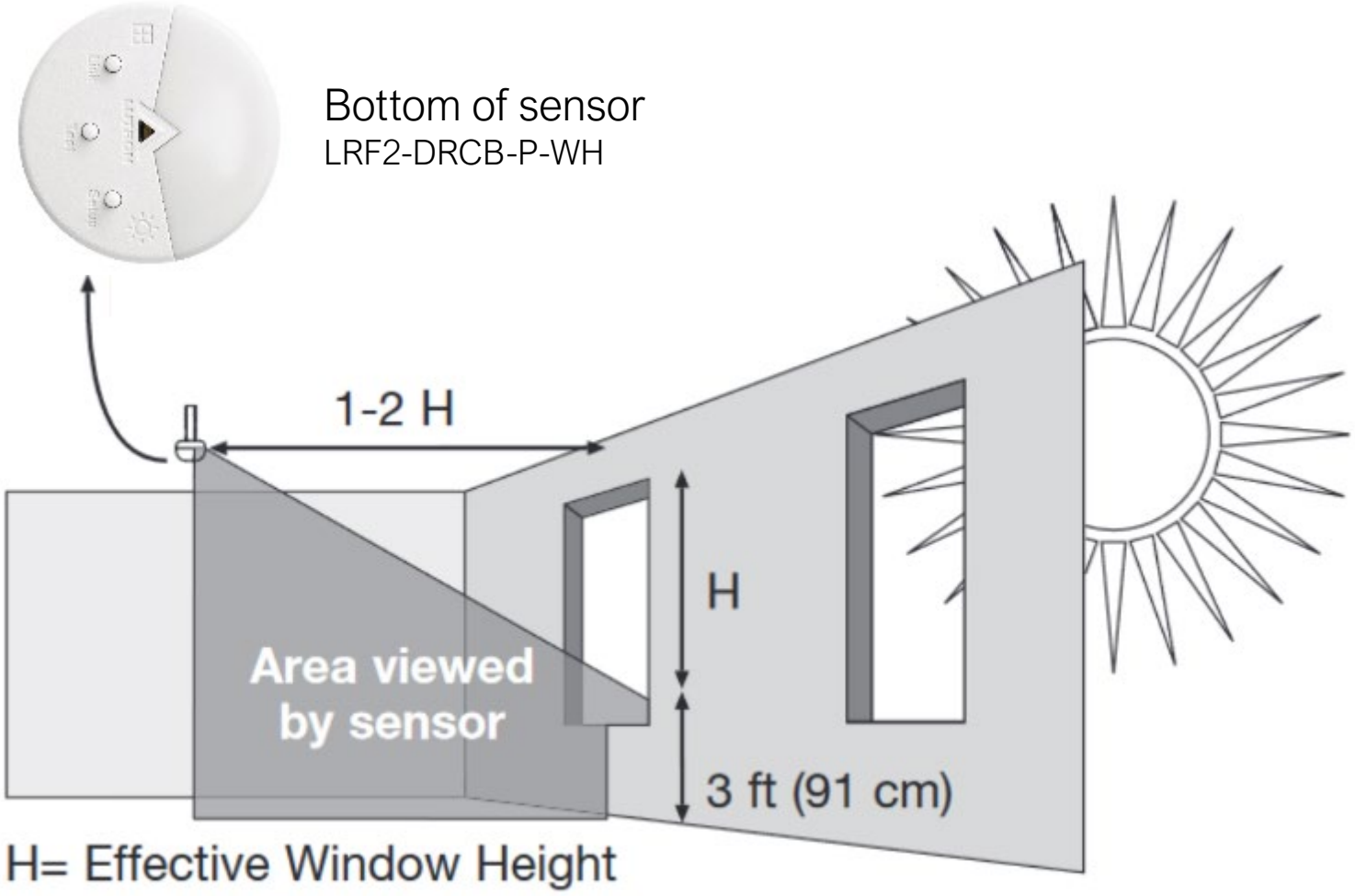
# Automatic daylighting

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# In-wall RF dimmer sensor

- Combines occupancy sensing, manual control, and system connectivity in one piece of hardware
- Easily add additional wall controls and sensors without running new wire
- Easy to install; directly replace an existing wallbox control
- Communicate to other wireless devices using Lutron Clear Connect RF technology
- Two Versions
  - 0-10V Dimming (MRF2S-8SD010-XX)
  - Switching (MRF2S-8SS-XX)

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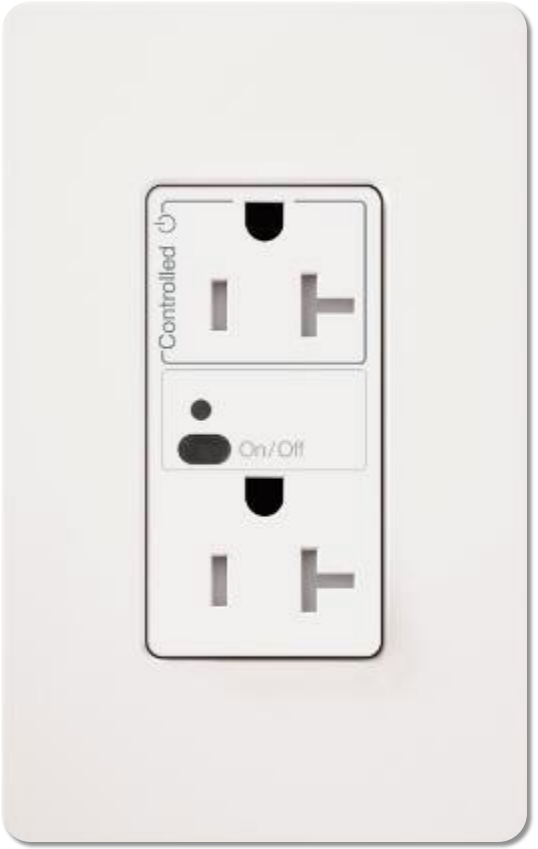
# Integrated wireless receptacle control

- Wireless control built right into the receptacle for direct communication to wireless sensors, Pico remotes, and the Vive wireless hub
- Install the wireless receptacle and integrate with occupancy sensors and the Vive system – with no other parts and pieces

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# Wireless hubs

Basic

- Timeclock, Demand Response, Energy Reporting

Advanced

- Timeclock, Demand Response, Energy Reporting
- BACnet

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# Wireless hubs

HJS-0

75 Devices

HJS-1

700
Devices

HJS-2

700
Devices

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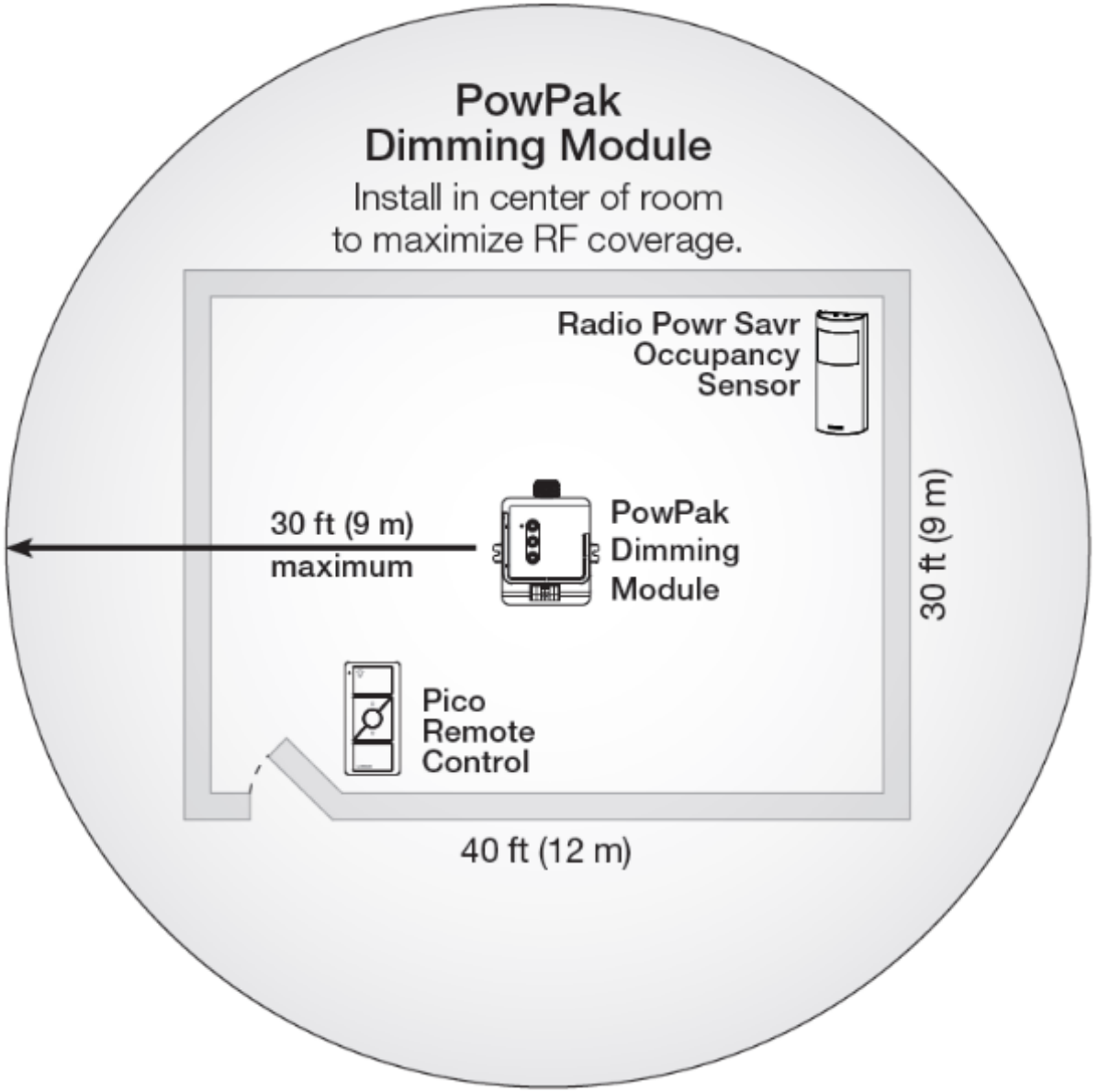
# Vive PowPak RF Rules

Wireless sensors and controls *must be located within 60 ft (18 m) line of sight, or 30 ft (9 m), through walls, of the associated control module. The 60 ft (18 m) range is not reduced by a ceiling tile obstruction.

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# Seamlessly integrate with building systems

Vive wireless hub available with native BACnet – no additional interfaces or parts are needed.

Vive wireless hub

ASHRAE BACnet™

- Building/energy management systems (BMS/EMS)
- Energy dashboards & analytics packages
- Maintenance & work order management systems
- HVAC
- Fire & safety
- Access & security
- Audio & video
- Metering
- IT

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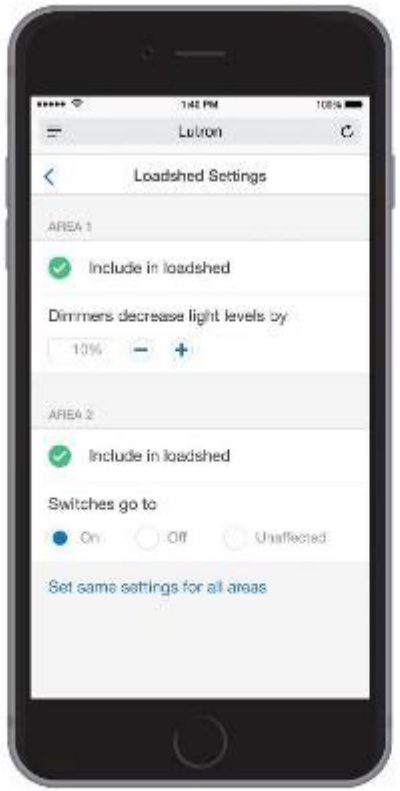
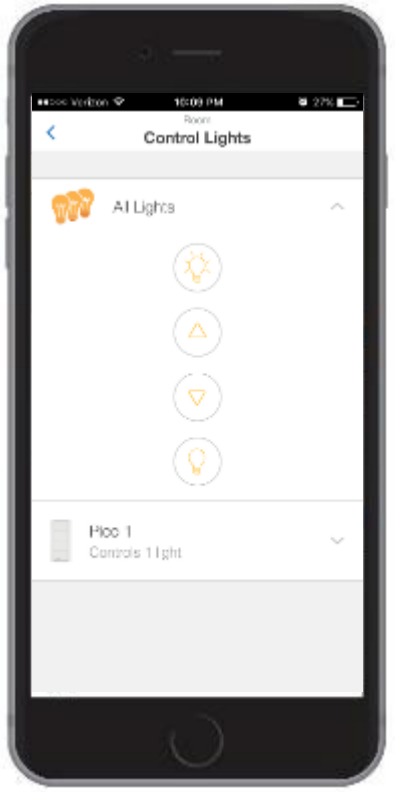
# Web-based software with multiple functions

Energy reporting




Load shed

Schedules




Manual control

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# Setup via any device

All you need is WiFi and a browser to get started.

Intuitive software works on any device – smartphone, tablet, or PC

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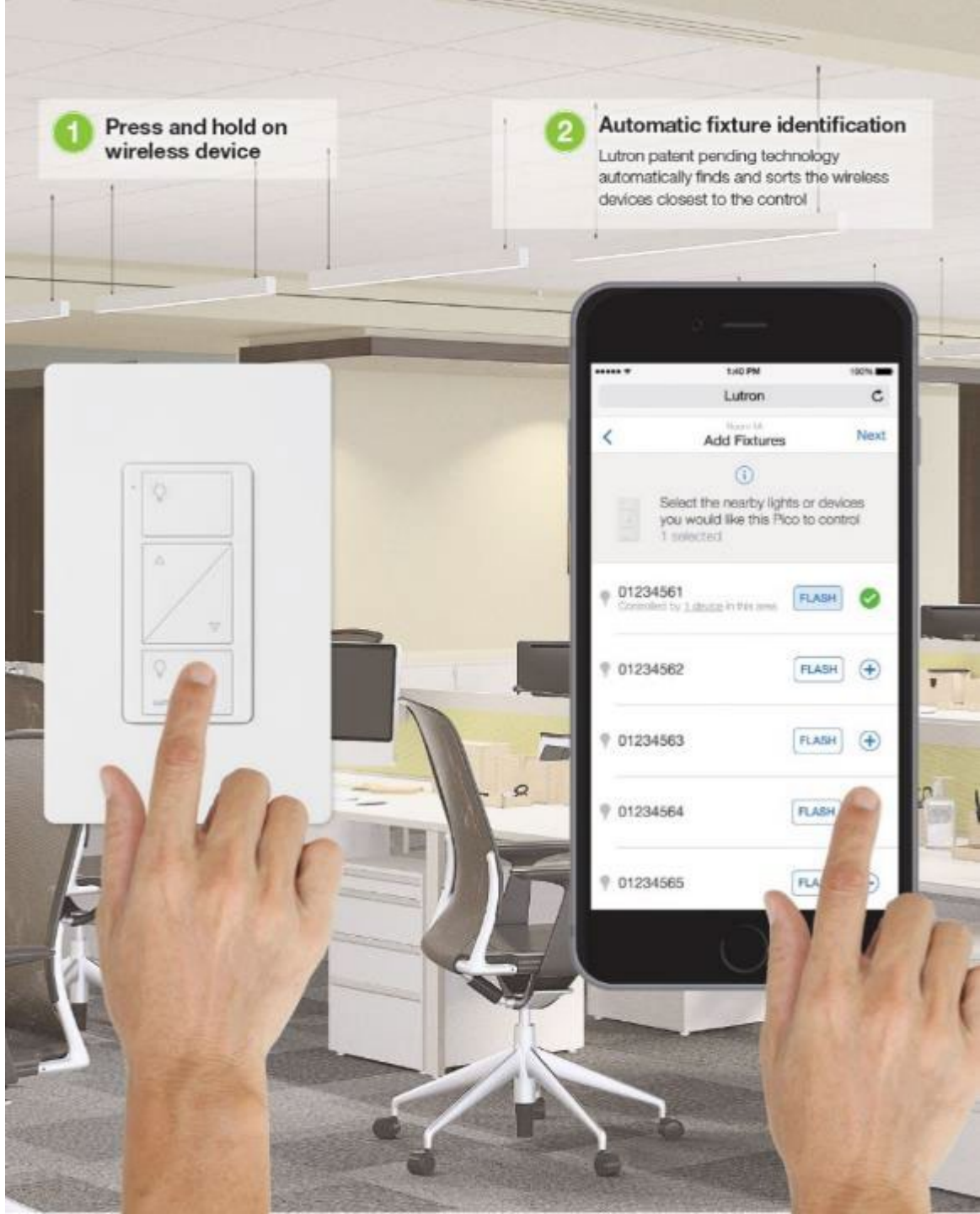
# Easy association

- Finds nearby devices based on RF signal strength to make job setup faster
- Intuitive graphic design walks through the steps and shows how the devices are programmed to communicate together visually

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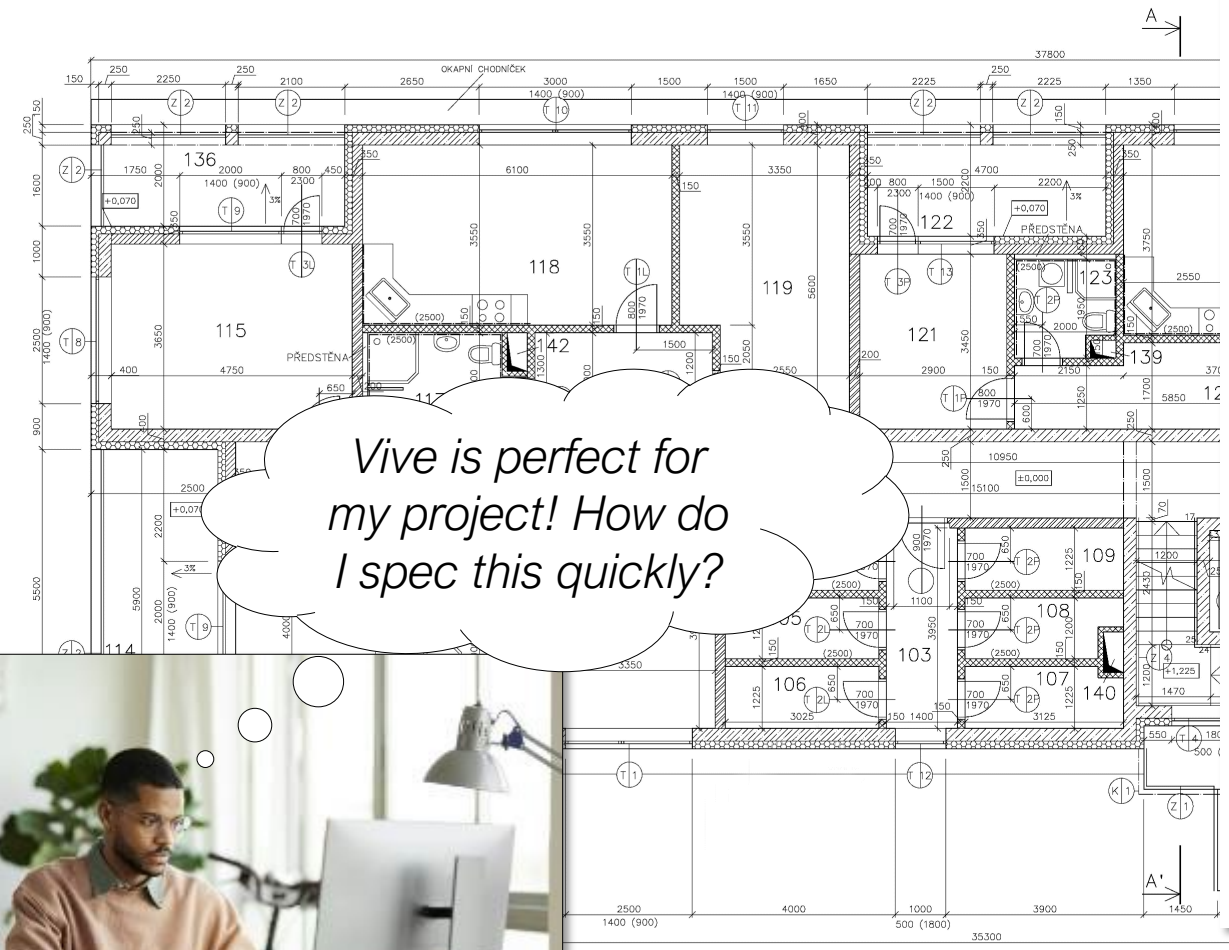
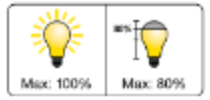
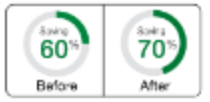
# Vive Meets Project Requirements




*Vive is perfect for my project! How do I spec this quickly?*

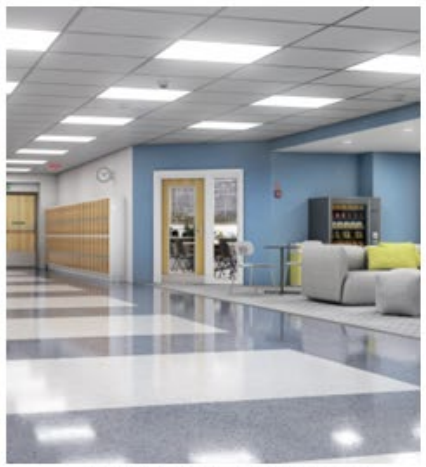
| | | Potential savings |
|---|---|---|
| | **Occupancy/vacancy sensing** turns lights on when occupants are in a space and off when they vacate the space. | 20–60% Lighting |
| | **Daylight harvesting** dims electric lights when daylight is available to light the space. | 25–60% Lighting |
|   | **High-end trim** sets the maximum light level based on customer requirements in each space. | 10–30% Lighting |
| | **Personal dimming control** gives occupants the ability to adjust the light level. | 10–20% Lighting |
| | **Scheduling** provides pre-programmed changes in light levels based on time of day. | 10–20% Lighting |
| | **HVAC integration** controls heating, ventilation, and air conditioning systems through contact closure, or BACnet protocol. | 5–15% HVAC |
| | **Load shedding** automatically reduces lighting loads during peak electricity usage times. | 30–50% Peak Period |
|   | **System Optimisation Service** from Lutron identifies important lighting control adjustments to save additional energy and create a more productive work environment on an ongoing basis. | Variable |

C·Flex

RETROFIT KITS + FIXTURES

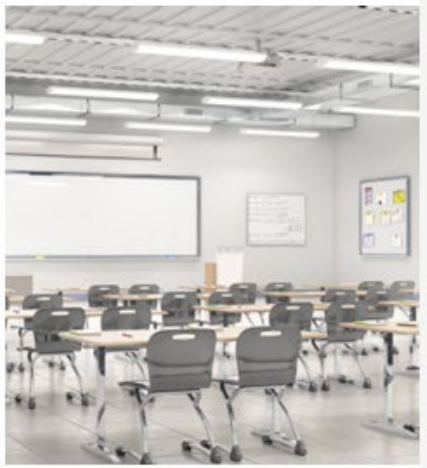
# UPGRADE TO LED

LARGE COMMERCIAL OFFICE SPACES



HIGHER EDUCATION FACILITIES

HEALTH CARE



SCHOOL

KEEP YOUR EXISTING FIXTURES, CONTROL SYSTEM, ZONES & SENSORS

SOLD & COMMISSIONED BY LUTRON CONTROL EXPERTS

LOWER YOUR OPERATING & MAINTENANCE COSTS OR ACHIEVE CODE COMPLIANCE

(> 50% REDUCTION IN YOUR LIGHTING LOAD)

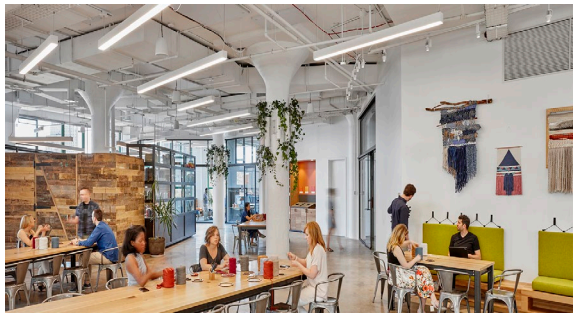
# Retro Fit/C-Flex Demand is Huge, Never Better

- Lutron Ballast End of Life 12/31/2023, no Distribution Inventory
  - All Installed Lutron Customers are planning their strategy – life after Ballasts
- 70% of all Commercial Lighting is FL + Switched
  - 12 States outlaw FL after ’24, Canada Outlaw Ballast end of ‘23
- Multi Year Commercial New Construction Demand Drops,
  - High Vacancy Rates – Chicago near 30%, Work From Home Continues
  - Class A Office Renovate to Maintain/Attract Tenants
  - Lutron Sales Team Pivot on Installed Base/Retrofits
- Code Driven Funded by Rebates – Be the Expert on Rebate/Code
  - Major City Require OCC and Watts per Sq Ft for Renovation
  - Utility Rebate shifts to Networked Fixtures vs. Load Reduction

# Where C-Flex is Successful

**Direct/Indirect Suspended**

**Direct/Recessed Pendants**



**Downlights**

**Door Kits with or without Wireless**

Healthcare
Commercial
Hospitality

Higher Educational
MUSH

Property Managers
Maintenance $$

Industrial Facilities

# C-Flex – Retrofit Fluorescent on Lutron Ballasts

**Wired**
Ecosystem 1%
3 Wire 1%
LVD
0 – 10V
Step/Bi-Level
DALI

**Wireless**
BLE
Vive & AWN
- Door Kits
- New Type C
  - ✓ Ceiling mount
  - ✓ Fixture mount

**Fixtures Types**
Direct
Direct/Indirect
Troffer
High Bay
Recessed
Cove
Downlight

**Control System**
Quantum
GRAFIK Eye
Energi Savr Node
LVD
0 – 10V
DALI

**Shapes**
4 ft.
3 ft.
2 ft.
G24Q
E26

**Lamp Types**
T5 /T5HO
T8/ T8HO
Bar/Bar HO
CFL 26W – dual 42W
PAR/BR
PLL/Biax
Door Kit

**Existing Equipment**

**Retrofit Equipment**

**Inputs**
Daylight Harvesting
Occupancy Sensing
Vacancy Sensing
Switches
Dimmer

# Helpful Ballast Information

| Ballast Brand | Control Type(s) |
|---|---|
| FDB | 3-wire |
| ECO | 3-wire |
| EC5 | EcoSystem/3-wire (sensor connections) |
| H3D | EcoSystem/3-wire |
| EC3D | EcoSystem/3-wire |
| EHD | EcoSystem |

| Lamp Types | |
|---|---|
| T8 | 8/8" diameter (thickness) = 1 inch |
| T5 | 5/8" diameter (thickness) |
| T4 | Compact Fluorescent |
| Biax | Twintube |

| Wattages to length for full power linear lamps | | | |
|---|---|---|---|
| | 2FT | 3FT | 4FT |
| **T8** | T817 | T825 | T832 |
| **T5HE** | T514 | T521 | T528 |
| **T5HO** | T524 | T539 | T554 |

*Don’t forget about lamp Color Temperature!*

# C-Flex LUTRON, 0-10V, LVD RETROFIT KITS

## PART NUMBER BUILDER

| MFR | PRODUCT | SIZE/LM | # OF LAMPS | COLOR (XX) | DIMMING (DD) | CASE (C) | GEN | OPTIONS (SEE BELOW) |
|---|---|---|---|---|---|---|---|---|
| RP | | | | | | | G2 | - - - - (EMG - W - B - AA) |

**PRODUCT / SIZE/LM**

- T8LO, T8HO, T8, T5, T5HO, BARLO, BAR, BARHO → 2FT, 3FT, 4FT
- PLL (BIAX) → 2.5K, 5.0K, 7.5K
- G24Q → 126V 126H, 132V 132H, 142V 142H, 226V 226H, 232H, 242H

**# OF LAMPS**

1L
2L
3L
4L

**COLOR (XX)**

830 = 3000K
835 = 3500K
840 = 4000K
850 = 5000K

**DIMMING (DD)**

E1 = LUTRON ECO SYSTEM 1
DIMS DOWN TO 1%

3W = LUTRON 3 WIRE
DIMS DOWN TO 1%

10V= 0-10V DIMMING -
(TLED, PLL & BAR KITS REQUIRE WATTAGE OPTION: SEE BELOW FOR AVAILABE OPTIONS)
DIMS DOWN TO 5%

LVD = LINE VOLTAGE DIMMING
(5% DIMMING TYPICAL. 120V/277V SWITCHED; 120V ONLY FOR DIMMING)

DA = DALI
DIMS DOWN TO 1%

**CASE (C)**

K = SQUARE W/STUDS
KN = SQUARE W/O STUDS
M = LINEAR
(SEE DIMENSIONS ON LAST PAGE)

**ORDERING EXAMPLES** RP-T5-4FT-2L-830-E1-M-G2
RP-T8-4FT-1L-830-10V-M-G2-10W

### OPTIONS

EMG = Emergency Battery Backup
Approximately 500 lumens for 90 minutes.
Contact us for more options

W = Specific Wattage
Only available for TLED, PLL and bar kits with 0-10V driver option. Not used with G24Q kits
(See pages 5-11 for wattage and lumen options)

B = Bulk Pack options
B24 = 1-lamp kit
B12 = 2-lamp kit
B8 = 3-lamp kit
B6 = 4-lamp kit

AA = ARRA SECTION 1605
(not available for PLL or G24Q lamp types)

# C-Flex G24Q Base Retrofit

- Replace single 26W → dual 42W CFL in 6” and 8” downlights
- Ideal for Drywall Ceilings or Plenum Restrictions
- Dimmable down to 1%

| | REPLACES CFL | | VERTICAL | | | | | HORIZONTAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LAMP QTY | LAMP WATTAGE | SYSTEM WATTAGE | LUMENS | LED LAMP IMAGE | LAMP QTY | KIT PART # | SYSTEM WATTAGE | LUMENS | LED LAMP IMAGE | LAMP QTY | KIT PART # |
| CFL/PL G24Q | 1 | 26 | 12 | 900 | A | 1 | RP-G24Q-126V-1L-8XX-DD-C-G2 | 13 | 1000 | B | 1 | RP-G24Q-126H-1L-8XX-DD-C-G2 |
| | 2 | 26 | 24 | 1800 | A | 2 | RP-G24Q-226V-2L-8XX-DD-C-G2 | 26 | 2000 | B | 2 | RP-G24Q-226H-2L-8XX-DD-C-G2 |
| | 1 | 32 | 14 | 1200 | C* | 1 | RP-G24Q-132V-1L-8XX-DD-C-G2 | 14 | 1200 | D** | 1 | RP-G24Q-132H-1L-8XX-DD-C-G2 |
| | 2 | 32 | N/A | N/A | N/A | N/A | N/A | 24 | 2400 | F** | 1 | RP-G24Q-232H-1L-8XX-DD-C-G2 |
| | 1 | 42 | 28 | 2700 | E* | 1 | RP-G24Q-142V-1L-8XX-DD-C-G2 | 21 | 2000 | F** | 1 | RP-G24Q-142H-1L-8XX-DD-C-G2 |
| | 2 | 42 | N/A | N/A | N/A | N/A | N/A | 28 | 2700 | F** | 1 | RP-G24Q-242H-1L-8XX-DD-C-G2 |

*Depending on luminaire design, vertical downlights may benefit from having the lamp mounted lower in the luminaire. In those cases, a vertical socket extender is available; order item number: LED-7319
**Shipped with horizontal-to-vertical adapter LED-7317-ARM. May not fit in all 6" cans; test-for-fit.

**A**
Replaces up to 26W G24q Base (Vertical)

**B**
Replaces up to 26W G24q Base (Horizontal)

**C**
Replaces up to 32W G24q Base (Vertical)

**D**
Replaces up to 32W G24q Base (Horizontal)

**E**
Replaces up to 42W G24q Base (Vertical)

**F**
Replaces up to 42W G24q Base (Horizontal)

**LED-7319**
Vertical Extender
For Vertical 32W & 42W applications

# New Demo Case – Now Available!

**Lamp Demo**
T8
T5HO
PLL/Biax Bar Kit
G24Q base
E26 base

EcoSystem driver
Vive PowPack
Pico Dimmer

**TLED**
Glass Tube
Aluminum end caps
320° light distribution

Excellent low-level dimming performance

**BAR & PLL/Biax**
Plastic Tube
190° light distribution

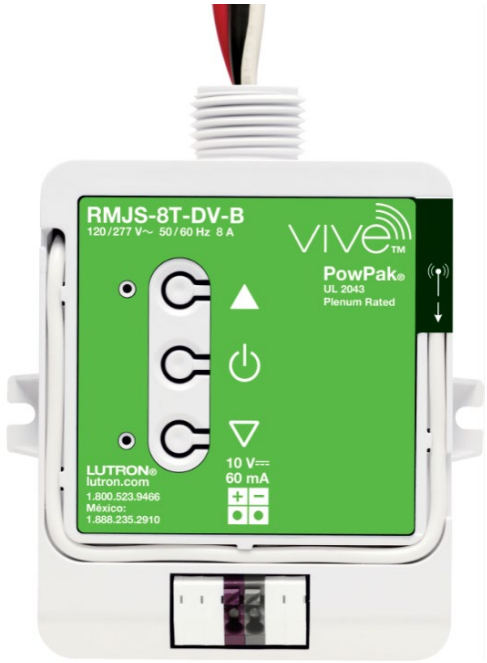
Similar dimming performance to FL

# Want a New Look? Want to Add Controls?

- https://www.youtube.com/watch?v=n9A2CEH2oxw

- Wired Control Interfaces
  - 0-10V, EcoSystem or Lutron 3 Wire
- Wireless Controls
  - Vive – RF only, RF + OCC
  - BLE – Bluetooth 2.4 Ghz
- Tunable White
  - Athena – RF only, RF + OCC
- Fixtures Options - Volumetric, Flat
  - 2x2, 2x4, 1x4, Custom
  - Emergency and Air Handling options

# Cove Lighting with Vive up to 160’



## ACCESSORIES

**SEAMLESS CONNECTOR***
RP-LBI-SSC-DIM (sold separately)
Links the OCC control signal to all bars.
RP-LBI-SSC-NODIM (sold separately)
Isolates each OCC control group within the continuous run.
*All continuous run installations require seamless connectors.

**SURFACE MOUNT MAGNETIC CLIP**
RP-LBI-SMM (2x included with bar)

**SUSPENDED IN-LINE BRACKET KIT**
RP-LBI-SIL (sold separately)
Recommended qty = number of bars + 1

**T-BAR CLIP**
RP-LBI-T1516 (sold separately)
Recommended qty = 2x per bar

**4.7in SPACER CONNECTOR**
RP-LBI-SRC-4.7IN (sold separately)

**INCOMING POWER CABLES**

*Connect up to 40 units on one incoming power cable

# Light Efficient Design Brands - LED

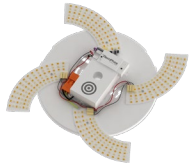
Light Efficient Design

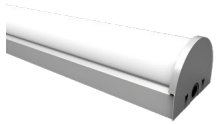
RemPhos

Solera

C-Flex

breezEV

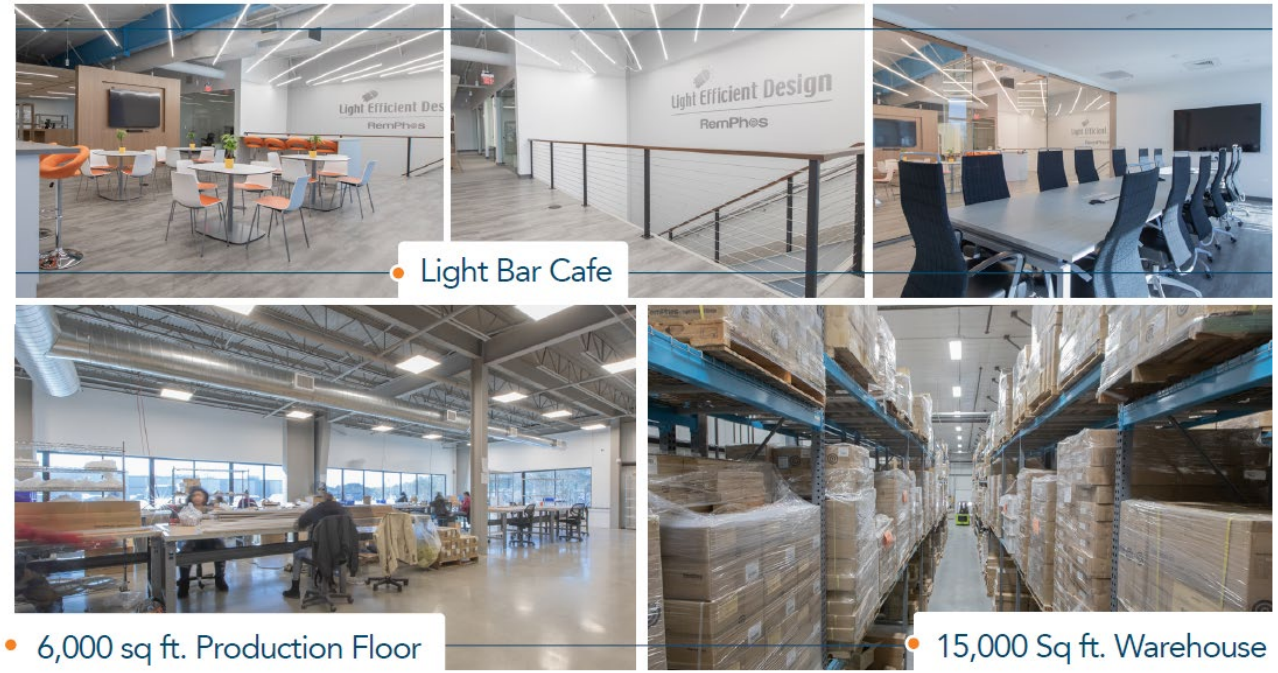




# Light Efficient Design

- Founded 2008, Private – No PE or VC Investment
  - Engineering : Boston, Chicago (HQ), China
  - Manufacturing : Boston (BAA/TAA), China
  - Warehouses : 5 US, Canada, C-Flex Boston

- Company Strengths
  - Financially strong and stable
  - Distribution and Project Centric Channels
  - Lutron Compatible Retrofits – C-Flex
  - EV Charging – breezEV with ampUp software
  - Invented HID Retrofits, Innovative Door Kit
  - Solar Hybrid Fixtures, Off Grid
  - Sales: 6 Projects, 8 Regionals, Dedicated Project Team
  - ırm Custom D Kit With Vive



**Email us at info@sydist.com for more information on today's topic.**

Schaedler yesco

Caséta by LUTRON

RA2 select by LUTRON

synergy

# Opportunity Growth

**The "average" home today:**

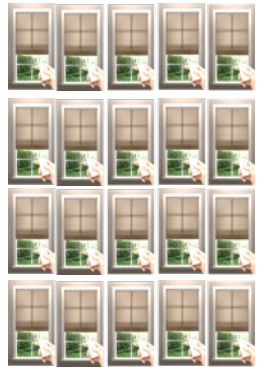
*There are 114 million residences in the USA…*

1 Thermostat

2 Door locks

22 Switches

20 Windows



| Opportunity: | $28B | $45B | **> Trillion $$** |
|---|---|---|---|

($62 Average Retail x 114M homes x 22 switches)

($379 Average Retail x 114M homes x 20 windows)

LUTRON

# Meet Caséta by Lutron

20+ Products
100+ SKUs

DIMMING REMOTE

ELV DIMMER

SMART HUB & FREE APP

DIMMER

FAN CONTROL

ON/OFF REMOTE & WALLBOX BRACKET

SWITCH

LAMP DIMMER

WIRELESS SENSOR

OUTDOOR PLUG

PRO DIMMER

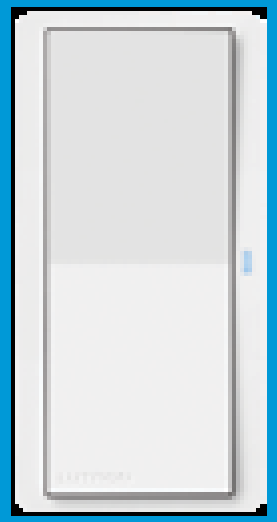
PRO HUB

PRO SWITCH

# New Additions to the Caséta Family

Diva
Smart Dimmer

Claro
Smart Switch



Pico Paddle
Remote

Diva Smart
Starter Kit
(Includes: Diva smart dimmer, smart hub, Pico, Wall plate, Pico Wall bracket)

# Smart Home Controls

Caséta by LUTRON

LUTRON®

# Most Connected Smart Lighting Control

## Works with the major tech platforms and smart home control devices

Works with Apple HomeKit

WORKS WITH amazon alexa

WORKS WITH Honeywell

works with the Google Assistant

Works with SONOS

ecobee

Carrier

Works with SmartThings

Logitech Harmony

WORKS WITH ring

AT&T Digital Life

works with XFINITY Home

Hunter

WORKS WITH wink

IFTTT

# Mass Market vs. Upper Mid-Market

Caséta Wireless

Introduced 2014

RadioRA 2

Introduced 1997

# Mass Market vs. Upper Mid-Market

Caséta Wireless

Mid-Market Opportunity?

RadioRA 2

# Lutron’s Mid-Market Solutions

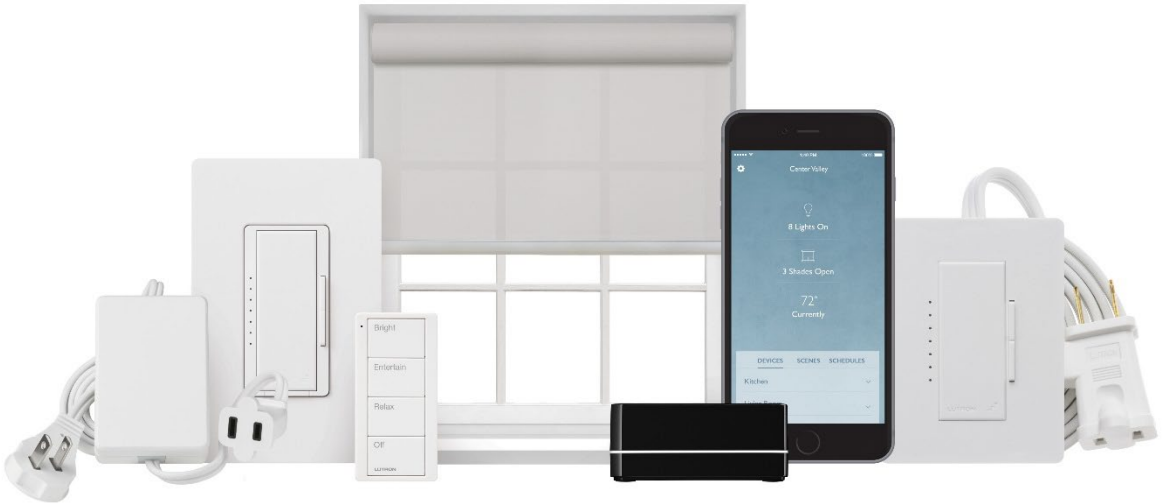
RA2 select

# The Mid-Market Solution: RA2 Select

RA2 select

LUTRON

# RA2 Select: What is it?




## Whole Home Lighting Control Made Simple

- Best of Caseta: Simple, Reliable, and Affordable
- Best of RadioRA 2: Fashion, PRO Channels only, and Larger Projects

# Designing the System: Three Simple Steps

## Step 1: Add the main repeater

## Step 2: Pick your devices

## Step 3: Pick your Picos

LUTRON

# Pick your devices

## Maestro dimmers and switches

Install in place of standard switches for dimming or switching control of the attached lighting, as well as system control from a Pico scene keypad.

## Maestro fan control

Control a ceiling fan without the hassle of pull chains.

## Plug-in appliance module

Plugs into a standard receptacle for control from a Pico scene keypad. Shuts off standby power to electronic appliances, such as computer monitors, when they're not in use.

## Lutron wireless thermostat

Adjust heating or cooling from anywhere using your smartphone or tablet.

## Tabletop lamp dimmer

Plugs into a lamp/standard receptacle for dimming control, as well as system control from a Pico scene keypad.

## Plug-in dimming module

Plugs into a lamp/standard receptacle for control from a Pico scene keypad (module is designed to be concealed behind furniture).

USB Receptacle | Phone Jack | Cable Jack | Wallplate

## Accessories

Coordinating receptacles, phone jacks, cable jacks, wallplates, and more.

LUTRON

# Works with Leading Smart Home Brands

RA2 select by LUTRON

WORKS WITH amazon alexa

Works with Apple HomeKit

works with the Google Assistant

ecobee

Carrier turn to the experts

WORKS WITH Honeywell

Works with SmartThings™

logitech

SONOS

LUTRON

# Works with Leading Professional AV and Security Systems

RA2 select by LUTRON

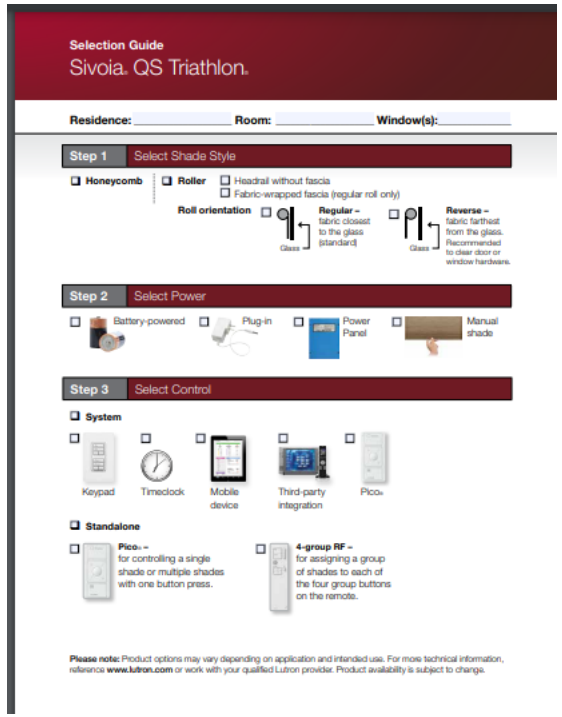
# Wireless Shades

**Battery-powered shades**

- Battery powered - 100% wire-free and easy to install
- Average 3-5 year battery life
- Near-silent, precise movement
- Affordable – starting at just under $600

**Battery-Power Honeycomb**

**Battery-Power Roller**



Selection Guide

Sivoia. QS Triathlon.

Residence: _____ Room: _____ Window(s): _____

**Step 1** Select Shade Style

- ❑ Honeycomb
- ❑ Roller
  - ☐ Headrail without fascia
  - ☐ Fabric-wrapped fascia (regular roll only)

Roll orientation

- ☐ Regular – fabric closest to the glass (standard)
- ☐ Reverse – fabric farthest from the glass. Recommended to clear door or window hardware.

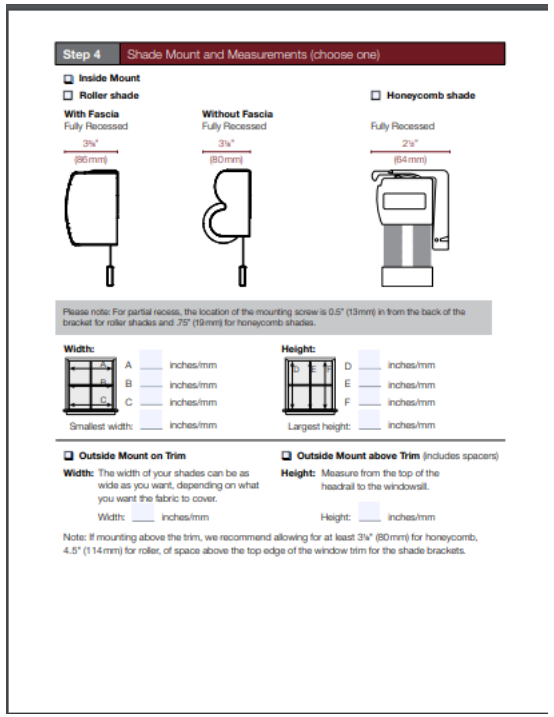
**Step 2** Select Power

- ☐ Battery-powered
- ☐ Plug-in
- ☐ Power Panel
- ☐ Manual shade

**Step 3** Select Control

- ❑ System
  - ☐ Keypad
  - ☐ Timeclock
  - ☐ Mobile device
  - ☐ Third-party integration
  - ☐ Pico®
- ❑ Standalone
  - ☐ Pico® – for controlling a single shade or multiple shades with one button press.
  - ☐ 4-group RF – for assigning a group of shades to each of the four group buttons on the remote.

**Please note:** Product options may vary depending on application and intended use. For more technical information, reference **www.lutron.com** or work with your qualified Lutron provider. Product availability is subject to change.



**Step 4** Shade Mount and Measurements (choose one)

- ❑ Inside Mount
  - ☐ Roller shade
    - With Fascia: Fully Recessed 3⅛" (86mm)
    - Without Fascia: Fully Recessed 3¼" (80mm)
  - ☐ Honeycomb shade: Fully Recessed 2½" (64mm)

Please note: For partial recess, the location of the mounting screw is 0.5" (13mm) in from the back of the bracket for roller shades and .75" (19mm) for honeycomb shades.

**Width:**

- A ____ inches/mm
- B ____ inches/mm
- C ____ inches/mm

Smallest width: ____ inches/mm

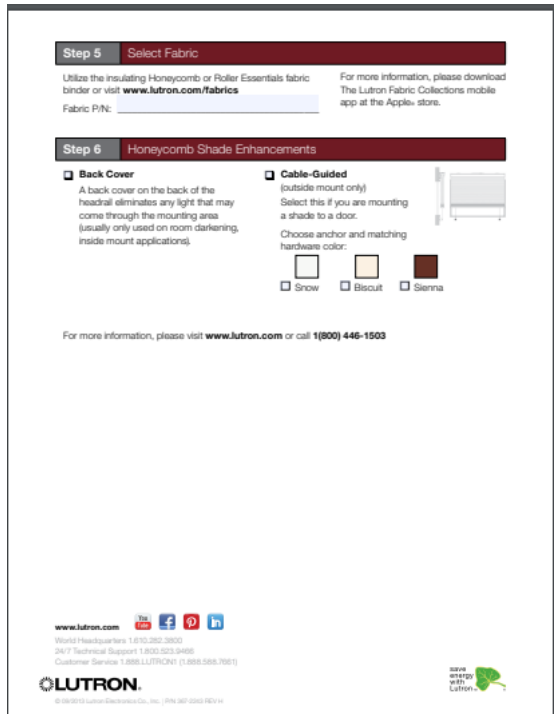
**Height:**

- D ____ inches/mm
- E ____ inches/mm
- F ____ inches/mm

Largest height: ____ inches/mm

- ❑ **Outside Mount on Trim**
  - **Width:** The width of your shades can be as wide as you want, depending on what you want the fabric to cover.
  - Width: ____ inches/mm
- ❑ **Outside Mount above Trim** (includes spacers)
  - **Height:** Measure from the top of the headrail to the windowsill.
  - Height: ____ inches/mm

Note: If mounting above the trim, we recommend allowing for at least 3¼" (80mm) for honeycomb, 4.5" (114mm) for roller, of space above the top edge of the window trim for the shade brackets.



**Step 5** Select Fabric

Utilize the insulating Honeycomb or Roller Essentials fabric binder or visit **www.lutron.com/fabrics**

Fabric P/N: _____

For more information, please download The Lutron Fabric Collections mobile app at the Apple® store.

**Step 6** Honeycomb Shade Enhancements

- ❑ **Back Cover**
  A back cover on the back of the headrail eliminates any light that may come through the mounting area (usually only used on room darkening, inside mount applications).
- ❑ **Cable-Guided** (outside mount only)
  Select this if you are mounting a shade to a door.

Choose anchor and matching hardware color:

☐ Snow ☐ Biscuit ☐ Sienna

For more information, please visit **www.lutron.com** or call **1(800) 446-1503**

www.lutron.com

LUTRON

save energy with Lutron®

Schaedler Shade Contact:
Carol Menges
Cmenges@Sydist.com
(Lebanon Branch)

Fabric Samples:
www.Lutronfabrics.com

**Questions?**

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