

RMJS-PNE-DV RMJS-PNE-DV-EM 120/277 V∼ 50/60 Hz

450 W Incandescent/Halogen 450 VA LED (reverse-phase) @

3 A Lutron Hi-lume A-series LTE (13 drivers max)

200 W LED NEMA SSL 7A-2015 450 W ELV 3

400 VA MLV 🟅 400 VA Fluorescent □

Important Notes: Please read before installing.

- For installation by a qualified electrician in accordance with all local and national electrical codes
- Note: Use copper conductors only.
- Check to see that the device type and rating is suitable for the application
- DO NOT install if product has any visible damage.
- If moisture or condensation is evident, allow the product to dry completely before installation.
- Operate between 0 °C and 40 °C (32 °F and 104 °F) ambient. 0% to 90% humidity, non-condensing.

- For indoor use only.

 For spec submittal, see http://www.lutron.com/TechnicalDocumentLibrary/3691150.pdf
- Operation of a low-voltage circuit with lamps inoperative or removed may result in transformer overheating and premature failure. Lutron strongly recommends the following:

 a. Do not operate low-voltage circuits without operative lamps in place.

- b. Replace burned-out lamps as quickly as possible.
 c. Use transformers that incorporate thermal protection or fused transformer primary windings to prevent transformer failure due to overcurrent.

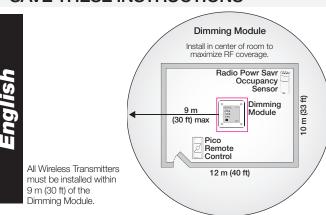
IMPORTANT SAFEGUARDS

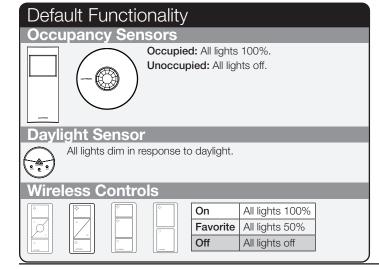
When using electrical equipment, basic safety precautions should always be

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not mount near gas or electric heaters
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.

SAVE THESE INSTRUCTIONS

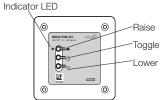




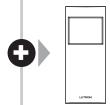
Required Components

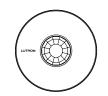
For each system, ensure that you have:

One Dimming Module



Dimming Module (1 maximum)







At least one Wireless Transmitter





Radio Powr Savr Daylight Sensor (1 maximum)



limits pursuant to CAN ICES-005 and the FCC rules.

At least one phase dimmable lighting load (incandescent, halogen, LED, fluorescent, ELV, or

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MLV) Consult

Note: All drivers and ballasts used with Vive wireless controls must comply with the

Start Here

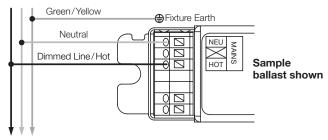


Mount, Wire, and Install Phase Dimmable Devices and Lighting Fixtures

Consult third-party device installation guide

WARNING! Shock Hazard. May result in serious injury or death. Turn off power at circuit

A Connect mains wiring (switched hot, neutral, dimmed hot) to each fixture.



NOTE: Output must NOT be used to control receptacles. Output must be directly connected to the load. Output breakers or switches must not be used.

Wire Connector Information

13 mm (1/2 in): 4.0, 2.5, & 1.5 mm² (10, 12, & 14 AWG)

16 mm (5/8 in)

8) 4.0 mm² (10 AWG) 8) 2.5 mm² (12 AWG)

1.0 & 0.75 mm (16 & 18 AWG)

(1-3) 2.5 mm² (14 AWG) (1-3) 1.5 mm² (14 AWG) (1-2) 4.0 mm² & (1) 2.5 mm² (10 & 12 AWG) (1-2) 4.0 mm² & (1) 1.5 mm² (10 & 14 AWG) (1-2) 2.5 mm² & (1) 1.5 mm² (12 & 14 AWG) (1-2) 4.0 mm² & (1) 1.0 mm² (10 & 16 AWG) (1-2) 2.5 mm² & (1) 1.0 mm² (14 & 16 AWG) (1-2) 1.5 mm² & (1) 1.0 mm² (14 & 16 AWG) (1-2) 4.0 mm² & (1) 0.75 mm² (10 & 18 AWG) (1-2) 2.5 mm² & (1) 0.75 mm² (14 & 18 AWG) (1-2) 1.5 mm² & (1) 0.75 mm² (14 & 18 AWG)

Phase Selection

Proper phase selection depends upon load type. See Side 2 of this sheet for selecting the phase. Default phase is reverse-phase.

MLV: Change to forward-phase.

Fluorescent ballasts: Change to forward-phase (consult specific manufacturer's literature)

Lights are unstable at low-end (or high-end) or flash/flicker at turn-on or turn-off.

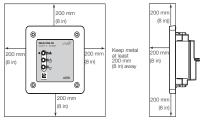
LED: Consult manufacturer's literature. Some LED drivers require forwardphase, some require reverse-phase.

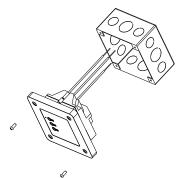
Lutron LTE drivers: Change to forward-phase. Load will fade to full ON. PHPM-PA-120, PHPM-PA-DV, and PHPM-PA-277/-DV: change to forward-

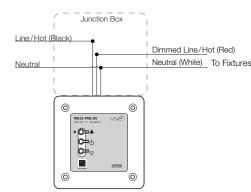
Install Dimming Module

Suggested Installation Location: Center of room to suggested installation Location: Center of room to ensure proper RF coverage of area. For optimal RF performance: Module must not be fully enclosed in metal. No metal should exist anywhere within 200 mm (8 in) in front of the front plate of the module. Mount a minimum of 0.6 m (2 ft) away from the controlled fixture. Ensure the junction box is well grounded (preferably via a metal conduit between the controlled fixture and the module junction box).

- Dimming Module must be installed in a metal 101.6 mm x 101.6 mm (4 in x 4 in) junction box (minimum depth 54 mm (2.125 in) with mounting screws (provided). Please consult local and national electric codes for proper installation. Lutron can provide a barrier, if required, to provide separation in the junction box between Class 1 and Class 2 wires. Note: if module cannot be fully seated into the junction box, try rotating the module 90. 180, or 270 degrees. Or move conduit hardware to a different knockout hole. If neither option works, an extension ring may
- B Connect bare copper wire from junction box to green around screw.
- Once installed, energize the Dimming Module.
- ${\bf D}$ Use the Toggle button " ${\bf \dot{0}}$ " to toggle between high-end and OFF to verify ballasts or LED drivers wiring
- E Use the Raise "▲" and Lower "∇" buttons to verify control wiring.







Note: RMJS-PNE-DV-EM requires the use of an automatic transfer switch to change from normal to emergency power. Refer to 048628 for wiring diagrams on www.lutron.com
If installing an emergency Dimming Module and the wiring needs

to be verified, follow "Reset Factory Defaults" procedure to exit emergency mode.
Please note that any programming will be lost and will have to be

reprogrammed. Only perform this step during initial installation and wiring verification. Note: For periodic testing and maintanance of emergency systems.

use the toggle button to ensure proper operation. Make sure buttons remain accessible.

Note: Momentary power outages can envoke emergency mode on the dimming module. SeeTroubleshooting section for details

Programming with a Vive Hub

The Vive hub can be set-up easily with any Wi-Fi enabled iOS® or Android® compatible

A Download the Lutron Vive app.



B Open the app and follow the instructions.



Note: For further information on set up, programming, and troubleshooting with a Vive system, please refer to the installation instructions included with the Vive hub or visit www.lutron.com/vive

Note: For programming the Dimming Module without a Vive hub see reverse side.

Troubleshootina

Lights do not dim as expected.

Fixtures cannot be controlled locally from Dimming Module.

Lights do not respond to Wireless Transmitter(s) (Pico remotes and RPS sensors).

Wireless Transmitter(s) cannot be associated to Dimming Module

- Ensure that the breaker(s) to the Dimming Module are energized. • Ensure that the Dimming Module dimmed hot lead is wired to the lighting fixture(s).
- Dimming Module may be in emergency mode.

Google Play

Reset to factory defaults

Ensure that dimmed hot line is wired properly

Dimming Module may be in emergency mode.

• Ensure that the breaker(s) to the Dimming Module and any connected ballasts or LED drivers are energized.

Ensure that Wireless Transmitters are associated to the Dimming Module

Reset to factory defaults.

Adjust low-end (or high-end) trim.

• The maximum number of Wireless Transmitters have been associated to the Dimming Module. To remove a previously set up Wireless Transmitter, tap a Wireless Transmitter button three times; on the third tap hold for three seconds and then tap three more times.

Installation .

Programming without a Vive Hub

Dimmina Module

Part of the Vive Family

Start Here



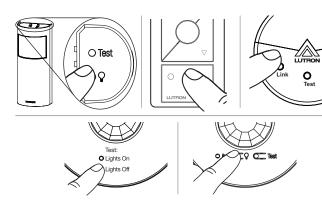
Before beginning this step, make sure that there are no other Dimming Modules being set up within the same building. It is possible that wireless transmitters from other systems can be incorrectly associated to this module.

A On Dimming Module, hold **Toggle** button " $\dot{\Phi}$ " for 6 seconds until lights flash.

The indicator LED will begin flashing twice per second.



B Hold the indicated button on each transmitter for 6 seconds. Lights will flash to show that wireless transmitters have been associated.



- C On Dimming Module, hold **Toggle** button "o" for 6 seconds to save association. Lights will flash and LED will quickly blink for 2 seconds.
- **D** Permanently install wireless transmitters (consult individual component installation guides for information).

Reset Factory Defaults

Note: In some instances, it may be necessary to reset the Dimming Module and connected devices back to factory default settings. Before beginning, make sure that all devices are connected and powered.

- A Triple-tap the **Toggle** button "d" on the Dimming Module and hold until the LED begins to flash slowly; release button.
- **B** Within 3 seconds of the start of flashing, triple-tap the same button again and the LEDs will flash rapidly indicating that the unit has been reset to factory defaults.

Note: Any associations or programming previously set up with the Dimming Module will be erased and will need to be re-programmed.

Calibrate the Radio Powr Savr Daylight Sensor

Daylight Sensor will control all wired fixtures equally.

- A Press and release the "Cal." button on the Daylight Sensor.
- **B** Set lights in room to desired light level.
- C Press and hold the "Cal." button for 6 seconds.
- **D** Exit room for 5 minutes to complete calibration.

Note: When calibration has completed, all lights will flash and begin to respond to daylight.

Multiple Daylight Rows (Optional)

For every row of daylighting, a separate Dimming Module must be used. For detailed setup refer to the tuning section of the Radio Powr Savr Daylight Sensor installation guide.

• Select the Dimming Module that you want to adjust by pressing the toggle button.

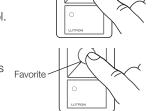
Set a Favorite Light Level (Optional)

For Pico remote controls with a **Favorite** Button.

A Adjust lights to desired level: Use the Raise button "△" or Lower button "▽" on the Pico remote control

B Save favorite level:

Press and hold the **Favorite** button for 6 seconds. The load will flash 3 times to confirm that the Favorite level is saved.



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Phase Selection

To change to forward-phase:

- A Press and hold Raise ∆ " & Lower or buttons for 12 seconds. Indicator LED will flash and load will fade to OFF.
- B Raise button "△" press sets the current phase to forward-phase, Lower button " " press sets the current phase everse-phase. Indicator LED Feedback:

(Reverse-phase): Flash 1 time with 1 second period and then turn OFF for 2 seconds (Forward-phase): Flash 2 times with 1 second period and then turn OFF for 1 second

C Press and hold Togale button for 6 seconds. Indicator LED will flash for 5 seconds. Load will fade to full ON.

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Set Low-End Trim and High-End Trim (Optional)

For best results, minimize the amount of sunlight entering the room before performing the following procedures.

Notes:

Depending on the fixture manufacturer or load, low-end trim and high-end trim may need to be adjusted.

- Trim low-end to ensure a stable light level because some loads will flicker or drop out if trimmed too low.
- Be sure that you can turn on the lights to the low-end trim level without any abnormal operation.
- The factory default high-end trim is suitable for most applications but can be adjusted as desired.

Low-End Trim

A Enter low-end trim adjustment mode:

Press and hold the **Lower** button " ∇ " on the fixture control for 12 seconds.

The lights will flash and the indicator LED will begin flashing.

B Adjust the low-end trim:

Use the **Raise** button " \blacktriangle " and **Lower** button " \blacktriangledown " on the fixture control to adjust and set the lights to the desired low-end (1 to 45%).

C Save the low-end trim:

Press and hold the **Toggle** button " $\Dotbox{$\psi$}$ " for 6 seconds to save setting.

The indicator LED will begin flashing and then turn solid to indicate new level has been saved.

High-End Trim

A Enter high-end trim adjustment mode:

Press and hold the **Raise** button "A" on the fixture control for 12 seconds.

The lights will flash and the indicator LED will flash.

B Adjust the high-end trim:

Use the **Raise** button " \blacktriangle " and **Lower** button " \blacktriangledown " on the fixture control to adjust and set the lights to the desired high-end (55 to 100%).

C Save the high-end trim:

Press and hold the **Toggle** button " \circlearrowleft " for 6 seconds to save setting.

The indicator LED will begin flashing and then turn solid to indicate new level has been saved.

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Certain applications (e.g., hallways), may require that the lights never turn off. For these areas, activate Minimum Light Level mode.

A Enter minimum light level adjustment mode:

Set Minimum Light Level (Optional)

Press and hold **Toggle** button " \heartsuit " and **Lower** button " \heartsuit " for 12 seconds. Lights will flash high-low-high and LED will begin flashing.

If lights stop flashing and go to high-end, the minimum light level is set to OFF (default). If lights stop flashing and go to low-end, the minimum light level is ON and set to low-end.

B Change the minimum light level:

Press Raise button "A" to set minimum light level to low-end.

Press **Lower** button "♥" to set minimum light level to OFF.

C Save the minimum light level:

Press and hold **Toggle** button "o" for 6 seconds. LED will quickly flash to indicate that new level has been saved.

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Set Occupancy Light Levels (Optional)

Note: Unoccupied light level is always the minimum light level and cannot be adjusted.

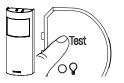
A Set desired occupancy light levels:

Use Raise/Lower buttons " \triangle/∇ " on the Dimming Module or Raise/Lower buttons " \triangle/∇ " on all associated Pico Remote Controls.

B Save occupancy light levels:

Press and hold **Test** button for 6 seconds on any associated Radio Powr Savr Occupancy Sensor without a **Lights On** button. Release when Sensor lens starts to flash.

Or, press and hold **Lights On** button for 6 seconds on any associated Radio Powr Savr Occupancy Sensor. Release when Sensor lens starts to flash.







FCC/ IC Information:

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RMJS-PNE-DV

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This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation. Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna
- •Increase the separation between the equipment and receiver
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Customer Assistance:

U.S.A. / Canada: 1.844.LUTRON1

www.lutron.com/support

Limited Warranty: www.lutron.com/TechnicalDocumentLibrary/369-119_Wallbox_Warranty.pdf

