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Lutron RMJS-5T-347 Lighting Control Installation Guide

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Lutron RMJS-5T-347 Lighting Control











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Vive Installation

347 V~ Dimming Module with 0 10 V Control

347 V~ Emergency Dimming Module with 0 10 V Control

Part of the Vive Family

RMJS-5T-347

347 V~ 60 Hz 5 A

RMJS-5T-347-EM

0 – 10 V Control: 10 V 60 mA (current sink only)

Compatible with ANSI E1.3 2001 (R2006), IEC 60929 Annex E

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 application note, see http://www.lutron.com/TechnicalDocumentLibrary/048753.pdf For spec submittal, see http://www.lutron.com/TechnicalDocumentLibrary/3691140.pdf
- May also be used with electronic non-dim (switching) loads. For more information, see http://www.lutron.com/TechnicalDocumentLibrary/048753.pdf
- Class 2 / Class 1 wiring: Install in accordance with all national and local electrical codes.

IMPORTANT SAFEGUARDS

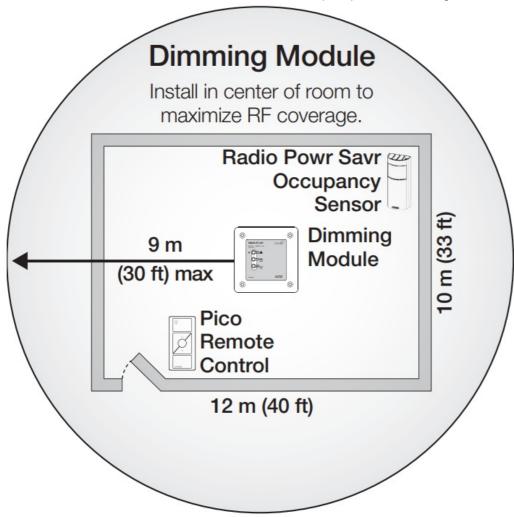
When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not use outdoors.
- 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

All Wireless Transmitters must be installed within 9 m (30 ft) of the Dimming Module.



Default Functionality

Occupancy Sensors Occup

Occupied: All lights 100%. Unoccupied: All lights off.





Daylight Sensor

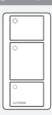


All lights dim in response to daylight.

Wireless Controls







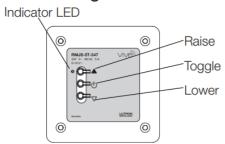


On	All lights 100%
Favorite	All lights 50%
Off	All lights off

Required Components

For each system, ensure that you have:

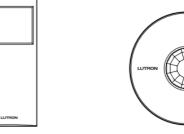
One Dimming Module



Dimming Module (1 maximum)

At least one Wireless Transmitter





Radio Powr Savr Occupancy/Vacancy Sensor (10 maximum)

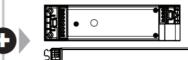
Customer Assistance <u>www.lutron.com/support</u>





Radio Powr Savr Daylight Sensor (1 maximum)

At least one 0–10 V== Fluorescent Ballast or LED Driver Consult third-party 0–10 V== fixtures installation guide for fixture-specific wiring.



60 mA maximum for the control lines. Switches up to 5 A total.

Note: All drivers and ballasts used with Vive wireless controls must comply with the limits pursuant to CAN ICES-005 and the FCC rules.

(10 maximum)

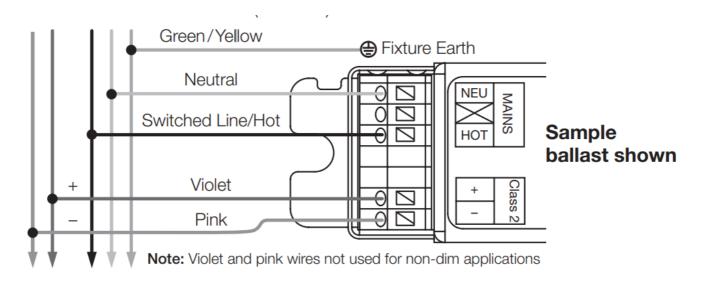
Mount, Wire, and Install 0 -10 V- Devices and Lighting Fixtures

Consult third-party device installation guide



WARNING! Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker b efore installing the unit

- A Connect mains wiring (switched hot, neutral) to each fixture.
- **B** Connect 0 10 V control (+ and) to each fixture.

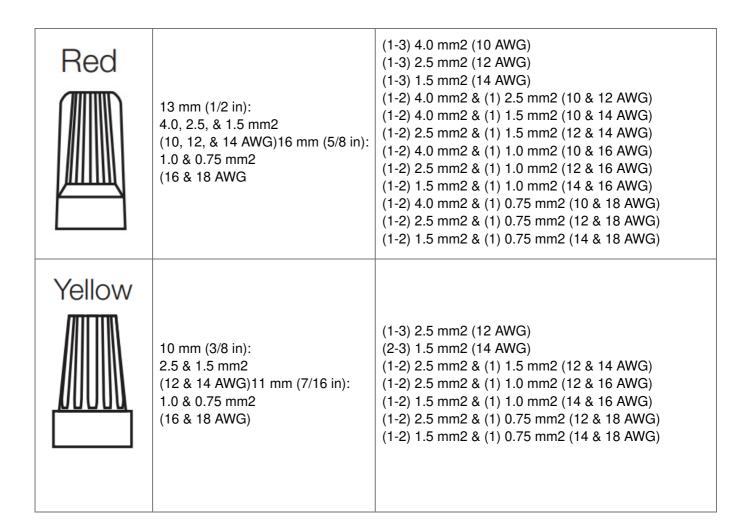


To additional 0-10 V fixtures

Note: Violet and pink wires not used for non-dim applications

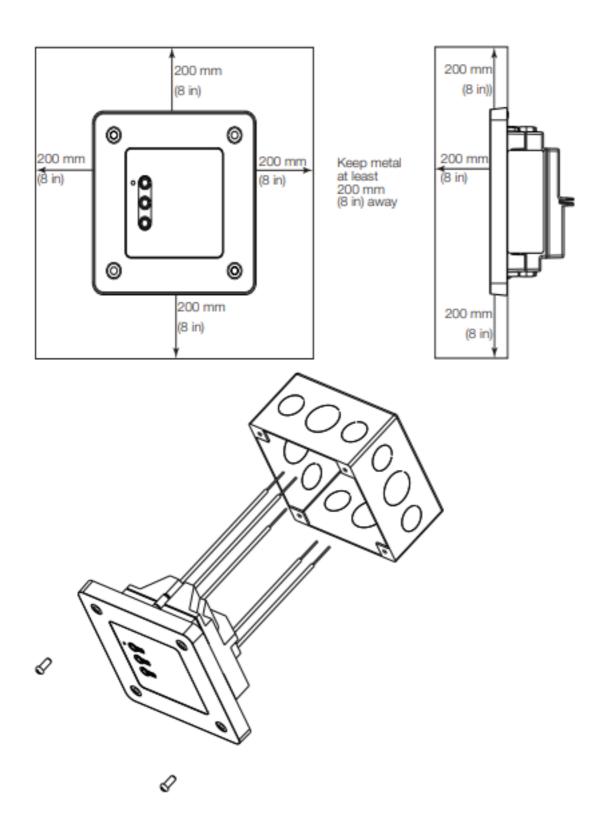
To additional 0 10 V- fixtures NOTE: Output must NOT be used to control receptacles. Output must be directly connected to the load. Output breakers or switches must not be used.

Wire Connector Information



Install Dimming Module

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 200 mm (8 in) 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).

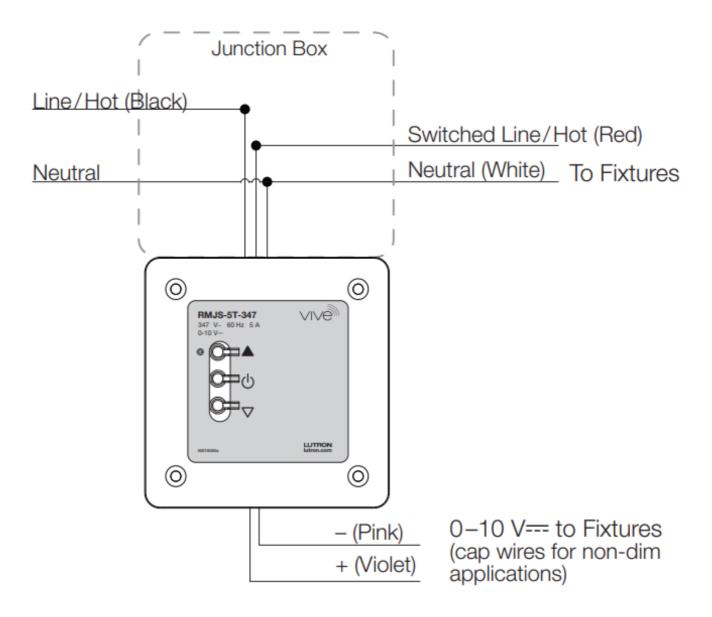


A Dimming Module must be installed in a **metal** 101.6 mm x 101.6 mm (4 in x 4 in) junction box (minimum depth 54 mm (2.125 in) with mounting screws (provided). Please consult local and national electric codes for proper installation. Lutron can provide a barrier, if required, to provide separation 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 be required.

- **B** Connect bare copper wire from junction box to green ground screw.
- **C** Once installed, energize the Dimming Module.

D Use the **Toggle** button "to toggle between high-end and OFF to verify ballasts or LED drivers wiring. E Use the Raise "▲" and Lower "Δ" buttons to verify control wiring.



Note: RMJS-5T-347-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.

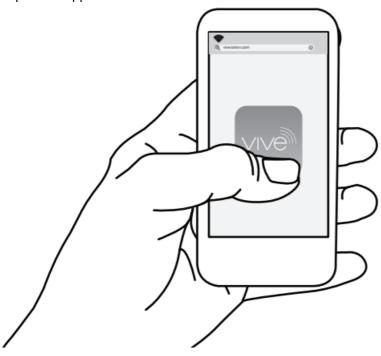
Note: Momentary power outages can envoke emergency mode on the dimming module. See Troubleshooting section for details.

Programming with a Vive Hub

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

Ballasts or LED drivers cannot be controlled locally from Dimming Module with 0 –10 V	 Ensure that the breaker(s) to the Dimming Module are energized. Ensure that the Dimming Module switched hot lead is wired to the lighting fixture(s). Ensure that the Dimming Module control lines are wire d to the lighting fixture(s). Ensure the driver is a current source for the 0-10 V- link Dimming Module may be in emergency mode. Reset to factory defaults.
Lights do not dim as expected.	 Ensure that 0 –10 V- control lines are wired properly. Ensure that fixture does not require an inverted signal (10 – 0 V- control). Ensure the driver is a current source for the 0-10 V- link. Dimming Module may be in emergency mode
Lights do not respond to Wireless Transmitter(s) (P ico remotes and RPS sensors).	 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.
Lights are unstable at low-end or flash/flicker at tur n-on or turn-off.	Adjust low-end trim.
Wireless Transmitter(s) cannot be associated to Di mming Module with 0 –10 V	The maximum number of Wireless Transmitters have b een associated to the Dimming Module. To remove a p reviously set up Wireless Transmitter, tap a Wireless Transmitter button three times; on the third tap hold for th ree seconds and then tap three more times.

Installation Programming without a Vive Hub

Dimming Module

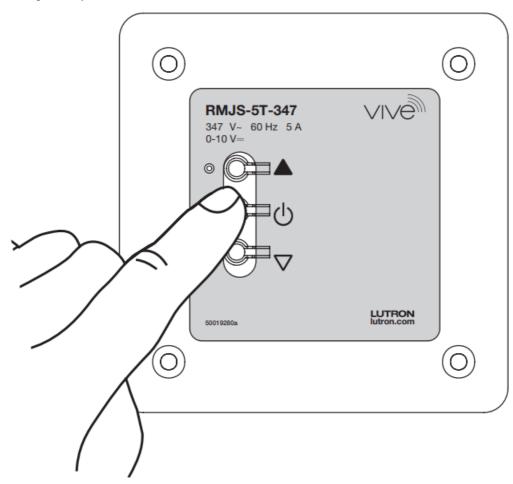
Part of the Vive Family

Start Here

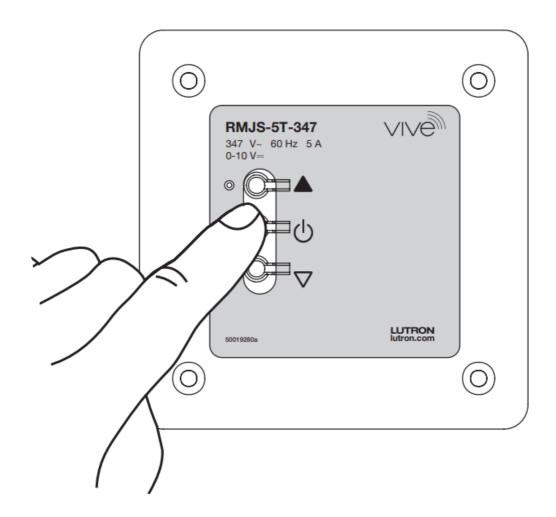
Associate Wireless Transmitters to Dimming Module

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 "or 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 "u" 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 fact ory default settings. Before beginning, make sure that all devices are connected and powered.

A Triple-tap the Toggle button "O" on the Dimming Module and hold until the LED begins to flash slowly; rele ase button.

B Within 3 seconds of the start of flashing, triple-tap the same button again and the LEDs will flash rapidly indic ating 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.

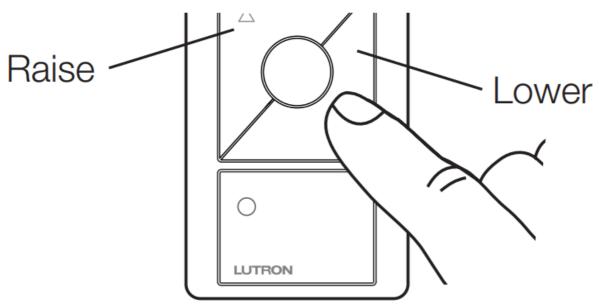
• Select the Dimming Module that you want to adjust by pressing the toggle button.

Set a Favorite Light Level (Optional)

For Pico remote controls with a Favorite Button.

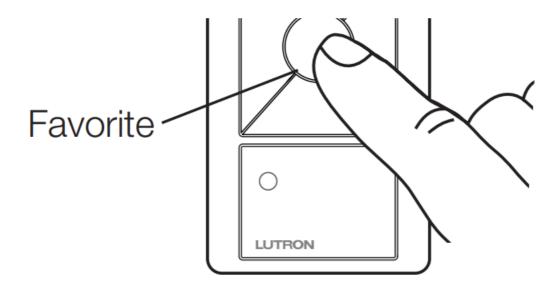
A Adjust lights to desired level:

Use the **Raise** button " \triangle " 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.



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.

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 " ∇ " 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 "U" 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 " ∇ " 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 "o" for 6 seconds to save setting. The indicator LED will begin flashing and then turn solid to indicate new level has been saved.

Set Minimum Light Level (Optional)

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:

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

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:

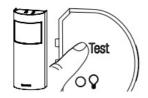
Use **Raise** / **Lower buttons** " \blacktriangle / Δ " on the Dimming Module or Raise / Lower buttons " \triangle / ∇ " on all associated Pico Remote Controls.

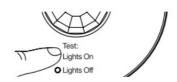
B Save occupancy light levels:

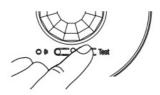
Press and hold **Test** button for 6 seconds on any associated Radio Powr Savr Occupancy Sensor without a **Lights On** button. Release when Sensor lens starts to flash.

Or, press and hold Lights On button for 6 seconds on any associated Radio Powr Saver Occupancy Sensor.

Release when Sensor lens starts to flash.







FCC/ IC Information:

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



Documents / Resources



<u>Lutron RMJS-5T-347 Lighting Control</u> [pdf] Installation Guide RMJS-5T-347 Lighting Control, Lighting Control, RMJS-5T-347-EM

References

• <u>Lutron: Beautiful light. Intelligent Shades. Powerful Controls</u>

- O Vive Reconnect | Lutron
- <u>Lutron: Beautiful light. Intelligent Shades. Powerful Controls</u>
- <u>Lutron: Beautiful light. Intelligent Shades. Powerful Controls</u>
- <u>Lutron Support Center | Lutron</u>
- Wive Commercial Wireless Lighting Control System | Lutron

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