

## Installation Instructions

*Please Read Before Installing*

**RF Lamp Dimmer**  
**HRT-3LD**  
 120/127 V~, 50/60 Hz

### Overview

The HRT-3LD RF Lamp Dimmers are for use with *HomeWorks* systems. The dimmer is used to provide local control of table and floor lamps and integrate them into the *HomeWorks* system.

### Important Notes

**Codes:** Install in accordance with all local and national electrical codes.



**Danger:** The Lamp Dimmer must not be used to control equipment which is not visible from every control location. It must also not be used to control equipment which could create hazardous situations such as entrapment if operated accidentally. Examples of such equipment which must not be operated by the Lamp Dimmer include (but are not limited to) motorized gates, garage doors, industrial doors, microwave ovens, heating pads, etc. It is the installer's responsibility to ensure that the equipment being controlled is visible from every control location and that only suitable equipment is connected to the Lamp Dimmer.

**Overheat Damage:** To reduce the risk of overheating and possibly damaging other equipment, do not install to control motor-operated appliances, transformer-supplied appliances, or other non-lighting loads.

**Environment:** Ambient operating temperature: 0-40°C, 32-104°F, 0-90% humidity, non-condensing. Indoor use only. It is normal for a Lamp Dimmer to feel warm to the touch during operation.

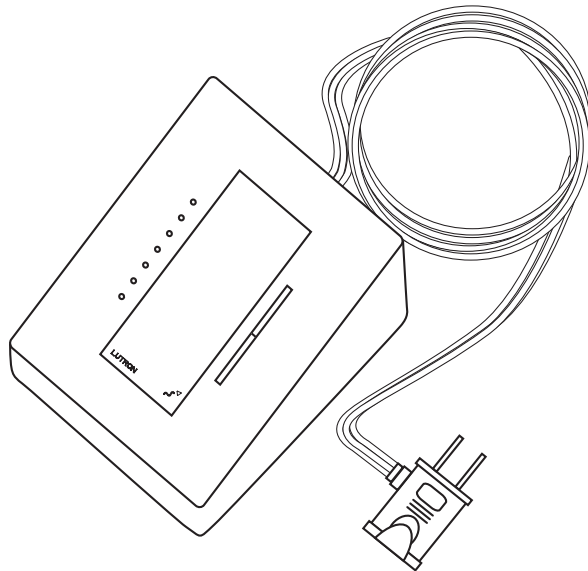
**Lamp Type:** Lamp Dimmers are designed for use with incandescent, magnetic low-voltage, and tungsten halogen lamps only. Do not use to control fluorescent lamps, touch lamps, or lamps with an integral dimmer. For lamps with integral 3-way switches, the switch should be set to full on. Lamp Dimmers may not work with dioded lamps (Sylvania Designer 16™ or Philips PAR-16™).

**Low-Voltage Applications:** Use Lamp Dimmers with magnetic (core and coil) low-voltage lamps only. Not for use with electronic (solid-state) low-voltage transformers.

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.

### HRT-3LD



- 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.

### Load Specifications:

<u>Control</u>	<u>Min. Load</u>	<u>Max. Load</u>
HRT-3LD	10 W/VA	300 W/VA

**Cleaning:** To clean, wipe with a clean damp cloth. **DO NOT** use any chemical cleaning solutions.

**Cordset:** Cordset length is 6 ft. (1.8m).

**RF Device Placement:** RF Lamp Dimmers must be located within 30 ft. (9m) of an RF Signal Repeater or an RF Processor.

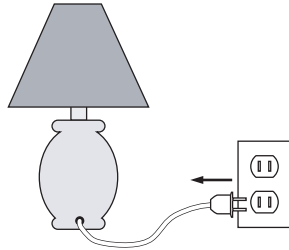
**Setup:** RF Lamp Dimmers cannot be controlled by the system until they are addressed and programmed. See the *HomeWorks* Utility online help.

## Installation

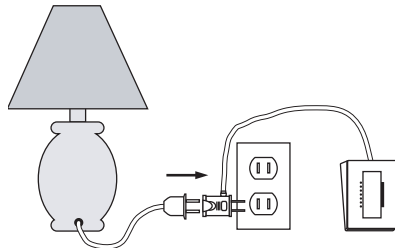
1. Find a suitable location for the Lamp Dimmer. Place the Lamp Dimmer in a convenient and accessible location.

Note: Lamp Dimmer must be located within 30 feet of an RF Signal Repeater or an RF Processor.

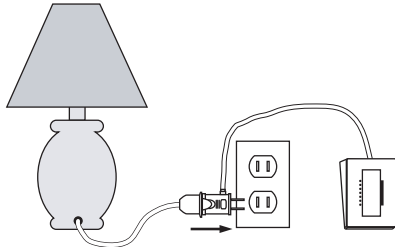
2. Turn OFF lamp and unplug lamp cord from receptacle.



3. Plug lamp cord into back of Lamp Dimmer plug.



4. Plug Lamp Dimmer into any standard wall outlet.



**DANGER:** To avoid risk of electrical shock, do not open, cut cord or rewire the Lamp Dimmer.

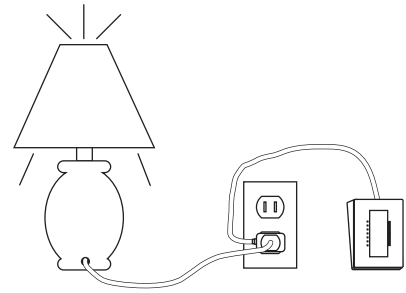


**DANGER:** Unplug Lamp Dimmer when changing light bulbs.



**CAUTION:** This is a **POLARIZED** cord set. It has a polarized plug (one blade is wider than the other). The polarized plug is not intended to be mated with nonpolarized outlets (having both slots the same size). A polarized outlet is intended to mate with a polarized plug in only one way (the longer slot with the wider blade).

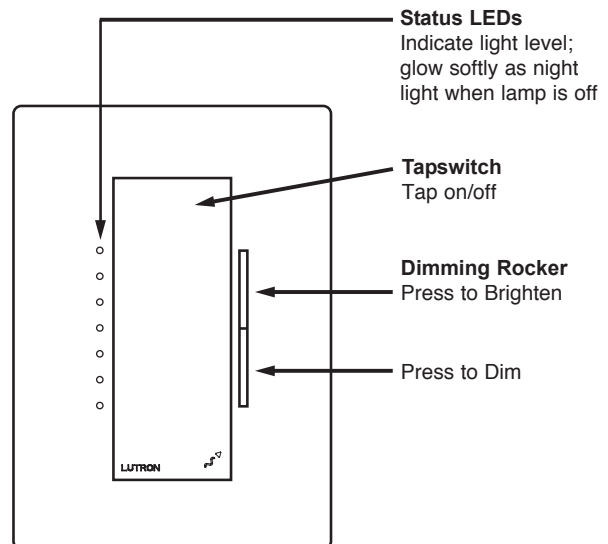
5. Turn lamp switch ON and operate Lamp Dimmer.



## Local Operation

Pressing the Tapswitch on the Lamp Dimmer will alternately turn the lights ON and OFF.

The ON level will be the level previously set using the Dimming Rocker to the right of the Tapswitch. The LED that is glowing slightly brighter than the others indicates the level to which the lights will turn ON. Press and hold the top or bottom of the Dimming Rocker to raise or lower the light level. Double-tapping the Tapswitch will turn the lights ON to full. Pressing and holding the Tapswitch for 1/2 second (while ON) activates a 10-second long fade-to-off.



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## Setting High /Low-End Trim

High/Low-End levels may be adjusted with the following procedure:

- a. Press the Dimming Rocker to set the dimmer to the desired new High/Low-End level (>50% for high-end, <50% for low-end), and then turn OFF. Note: Middle LED cannot be used for High-End or Low-End settings.
- b. While *pressing and holding* the Tapswitch:
  1. The dimmer will turn ON to its preset level,
  2. The preset LED will light,
  3. After 10 seconds, the load will turn OFF and then back ON,
  4. The preset LED will begin to flash quickly (for two seconds).
- c. While *the LED is flashing*, release the Tapswitch. The LED will remain ON and the dimmer will be at its preset level. The High/Low-End value has been changed.

High/Low-End levels may be restored to their factory default setting with the following procedure:

- a. Press the Dimming Rocker to set the dimmer to >50% to reset high-end, or to <50% to reset low-end, and then turn OFF.
- b. While *pressing and holding* the Tapswitch:
  1. The dimmer will turn ON to its preset level,
  2. The preset LED will light,
  3. After 10 seconds, the load will turn OFF and then back ON,
  4. The preset LED will begin to flash quickly (for two seconds) and then turn OFF. Continue holding the Tapswitch for at least six seconds after the LED stops flashing.
- c. The load will turn OFF then back ON to its preset level. The preset LED will flash (for two seconds) and then remain ON. The default High or Low-End value has been restored.

# Troubleshooting Guide

Symptom	Cause and Action
Light does not turn ON, but LEDs on Lamp Dimmer are ON.	Light bulb(s) are burned out. <ul style="list-style-type: none"> <li>• Replace light bulb(s).</li> </ul> Switch on lamp turned OFF. <ul style="list-style-type: none"> <li>• Turn lamp switch ON.</li> </ul> Light bulbs are dioded. <ul style="list-style-type: none"> <li>• If dioded light bulbs (Sylvania Designer 16™ or Philips PAR-16™) are being used, replace with non-dioded light bulbs.</li> </ul>
Light does not turn ON, and LEDs on Lamp Dimmer are OFF.	Breaker is OFF. <ul style="list-style-type: none"> <li>• Turn breaker ON.</li> </ul> Cord is not plugged in. <ul style="list-style-type: none"> <li>• Plug in cord.</li> </ul>
Lamp Dimmer does not dim properly or lights flicker.	Lamp has an integral dimmer. <ul style="list-style-type: none"> <li>• Use a lamp without an integral dimmer.</li> </ul> Lamp 3-way switch not set to full. <ul style="list-style-type: none"> <li>• Turn lamp 3-way switch to full.</li> </ul>
Lamp Dimmer is warm.	Solid-state control dissipation <ul style="list-style-type: none"> <li>• Solid-state dimmers internally dissipate about 2% of the total connected load. It is normal for dimmers to feel warm to the touch during operation.</li> </ul>
Lights don't turn ON/OFF from Keypad.	Improper programming <ul style="list-style-type: none"> <li>• Check programming in the <i>HomeWorks</i> Utility.</li> </ul> Out of RF range <ul style="list-style-type: none"> <li>• Reposition RF Signal Repeater or RF Processor to be within 30 feet (9m) of control.</li> </ul>

## FCC Information

**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 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.

**Caution:** Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

## Industry Canada Information

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

## Technical and Sales Assistance

If you need assistance, call the toll-free **Lutron Technical Support Center**. Please provide exact model number when calling.  
 (800) 523-9466 (U.S.A., Canada and the Caribbean)  
 Other countries call:  
 Tel: (610) 282-3800  
 Fax: (610) 282-3090  
 Visit our Web site at [www.lutron.com](http://www.lutron.com)

## LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within two years after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid. Telephone the Lutron Technical Support Center toll free at 800-523-9466. After the two year period, a pro-rated warranty applies to this product until eight years after the purchase. For more information regarding this warranty contact your Lutron representative.

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This product may be covered by one or more of the following U.S. patents: 4,835,343; 4,889,999; 5,170,068; 5,237,207; 5,248,919; 5,399,940; 5,637,930; 5,736,965; 5,798,581; 5,848,054; 5,905,422; 5,982,103; D353,798; D439,220 and corresponding foreign patents. U.S. and foreign patents pending. Lutron and HomeWorks are registered trademarks and the HomeWorks Logo is a trademark of Lutron Electronics Co., Inc.  
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