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## Lutron LECL-153P-WH-3

# Lutron LECL-153P-WH-3 Lumea CL Dimmer Switch Instruction Manual

Model: LECL-153P-WH-3

## 1. INTRODUCTION

The Lutron LECL-153P-WH-3 Lumea CL Dimmer Switch is designed to provide optimal dimming performance for a wide range of bulb types, including 150W dimmable LED/CFL bulbs or 600W incandescent/halogen bulbs. This dimmer can be installed in either single-pole or 3-way applications. It features a large rocker switch for turning lights on and off, and a smooth slide control for adjusting brightness levels. This manual provides detailed instructions for safe installation, operation, and maintenance of your dimmer switch.



Figure 1: Front view of the Lutron LECL-153P-WH-3 Lumea CL Dimmer Switch. This image shows the large rocker

switch at the top for power control and the vertical slide control for adjusting light intensity.

## 2. SAFETY INFORMATION

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Please read and understand all instructions before installing or operating this product. Improper installation can result in serious injury or death. Always turn off power at the circuit breaker before beginning any electrical work.

- **WARNING: SHOCK HAZARD.** To avoid serious injury or death, always turn off power at the circuit breaker or fuse box before wiring.
- Install in accordance with all national and local electrical codes.
- Use only with 120 V~ 60 Hz.
- For indoor use only.
- If you are unsure about any part of these instructions, consult a qualified electrician.
- Do not use with non-dimmable bulbs.

## 3. PACKAGE CONTENTS

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Your package should contain the following items:

- Lutron LECL-153P-WH-3 Lumea CL Dimmer Switch (3 units)
- Wire Connectors (typically included for installation)
- Instruction Manual (this document)

## 4. SETUP AND INSTALLATION

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### 4.1. Preparation

1. **Turn off power:** At the circuit breaker, turn off the power to the switch location.
2. **Remove existing switch:** Carefully remove the wallplate and mounting screws from the existing switch. Pull the switch out of the wall box.
3. **Identify wires:** Identify the wires connected to the existing switch. Typically, these include a hot (line) wire, a load wire (to the light fixture), and a ground wire. For 3-way installations, you will also have two traveler wires.

### 4.2. Wiring the Dimmer

The LECL-153P-WH-3 dimmer can be wired for single-pole (controlling lights from one location) or 3-way (controlling lights from two locations) applications. Refer to the diagrams below for typical wiring configurations.



**Figure 2:** Conceptual wiring diagram for a single-pole installation. This image illustrates connecting the dimmer to the hot (line), load, and ground wires. Always ensure proper wire identification before making connections.

- **Ground Wire:** Connect the bare copper or green insulated ground wire from the wall box to the green ground wire on the dimmer.
- **Single-Pole Wiring:** Connect one black wire from the dimmer to the hot (line) wire from the wall box. Connect the other black wire from the dimmer to the load wire (to the light fixture). Cap off the red/white stripe wire if present.
- **3-Way Wiring:** Connect the black wire from the dimmer to the common wire (often darker or marked differently) from the wall box. Connect the red wire from the dimmer to one traveler wire. Connect the red/white stripe wire from the dimmer to the other traveler wire. The other 3-way switch will also need to be wired correctly.
- Secure all connections with wire connectors.

### 4.3. Mounting and Finishing

1. Carefully push all wires back into the wall box.
2. Mount the dimmer to the wall box using the provided screws.
3. Attach the wallplate.
4. **Restore power:** Turn the power back on at the circuit breaker.

## 5. OPERATING INSTRUCTIONS

Operating your Lumea CL dimmer is straightforward:

- **Turn Lights On/Off:** Press the large rocker switch at the top of the dimmer to turn the connected lights on or off.
- **Dim/Brighten Lights:** Use the vertical slide control on the right side of the dimmer. Slide it up to increase the light intensity (brighten) and slide it down to decrease the light intensity (dim).

## 6. ADVANCED FEATURES: DIMMING RANGE ADJUSTMENT

The Lumea CL dimmer includes a low-end trim adjustment tab, which allows you to fine-tune the lowest light level for optimal performance with your specific bulbs, especially LEDs. This helps prevent flickering or lights turning off prematurely at low dim settings.



**Figure 3:** Detail of the low-end trim adjustment tab. This image highlights the small blue tab located on the left side of the dimmer, near the top of the slide control, which can be adjusted to set the minimum dimming level.

## 6.1. How to Adjust the Low-End Trim

1. Turn the lights on and slide the main dimmer control all the way down to its lowest setting.
2. Locate the small blue tab on the left side of the dimmer, next to the main slide control.
3. Using a small screwdriver or your fingernail, slowly move this blue tab up or down.
4. Adjust the tab until the lights are at their lowest stable dimming level without flickering or turning off.
5. Once the desired low-end is set, the dimmer will remember this setting.

## 7. MAINTENANCE

Your Lutron dimmer switch requires minimal maintenance.

- **Cleaning:** To clean the dimmer, wipe with a clean, damp cloth. Do not use any chemical cleaning solutions, as they may damage the finish or internal components.
- Ensure the dimmer is free from dust and debris to maintain optimal performance.

## 8. TROUBLESHOOTING

If you experience issues with your dimmer, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
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Problem	Possible Cause / Solution
Lights do not turn on.	<ul style="list-style-type: none"> <li>• Check if power is restored at the circuit breaker.</li> <li>• Verify all wiring connections are secure.</li> <li>• Ensure bulbs are properly installed and functional.</li> </ul>
Lights do not dim or dim poorly.	<ul style="list-style-type: none"> <li>• Ensure bulbs are dimmable.</li> <li>• Adjust the low-end trim tab (refer to Section 6).</li> <li>• Confirm the dimmer's wattage rating is not exceeded.</li> </ul>
Lights flicker at low levels.	<ul style="list-style-type: none"> <li>• Adjust the low-end trim tab (refer to Section 6) to find a stable minimum brightness.</li> <li>• Ensure LED bulbs are specifically designed for dimming and are compatible with CL-type dimmers.</li> </ul>
Dimmer is warm to the touch.	It is normal for dimmers to feel warm during operation. If it is excessively hot or emits smoke/odor, turn off power immediately and consult an electrician.

## 9. SPECIFICATIONS

- **Model:** LECL-153P-WH-3
- **Voltage:** 120 V~ 60 Hz
- **Load Type:** 150 W Dimmable LED/CFL or 600 W Incandescent/Halogen
- **Circuit Type:** Single-pole or 3-way
- **Color:** White
- **Operation Mode:** Off, Slide Dimmer
- **Terminal:** Screw
- **Mounting Type:** Pole
- **Material:** Plastic, with metallic components
- **Item Weight:** Approximately 0.01 ounces (per unit)
- **Package Dimensions:** 7.48 x 4.72 x 2.52 inches (for 3-pack)
- **UPC:** 784276801911

## 10. WARRANTY AND SUPPORT

Lutron Electronics Co., Inc. provides a limited warranty for its products. For specific warranty details, please refer to the warranty card included with your product or visit the official Lutron website. If you require technical assistance or have questions regarding your LECL-153P-WH-3 dimmer, please contact Lutron Customer Support.

### Lutron Customer Support:

Website: [www.lutron.com](http://www.lutron.com)

Phone: Refer to the Lutron website for regional contact numbers.

