Lutron DVF-103P-277-WH

Lutron DVF-103P-277-WH Lighting Dimmer and Ballast User Manual

Model: DVF-103P-277-WH

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Lutron DVF-103P-277-WH Lighting Dimmer and Ballast. This device is designed for controlling 3-wire fluorescent and LED lighting systems, offering reliable dimming capabilities.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Important Safety Information

Always turn off power at the circuit breaker or fuse box before installing or servicing the dimmer. Failure to do so may result in serious injury or death.

- For indoor use only.
- Install in accordance with all national and local electrical codes.
- Do not use with incandescent or low-voltage lighting unless specifically rated for such applications. This dimmer is designed for 3-wire fluorescent and LED loads.
- If you are unsure about any part of these instructions, consult a qualified electrician.
- Do not paint the dimmer or wall plate.

3. Product Overview

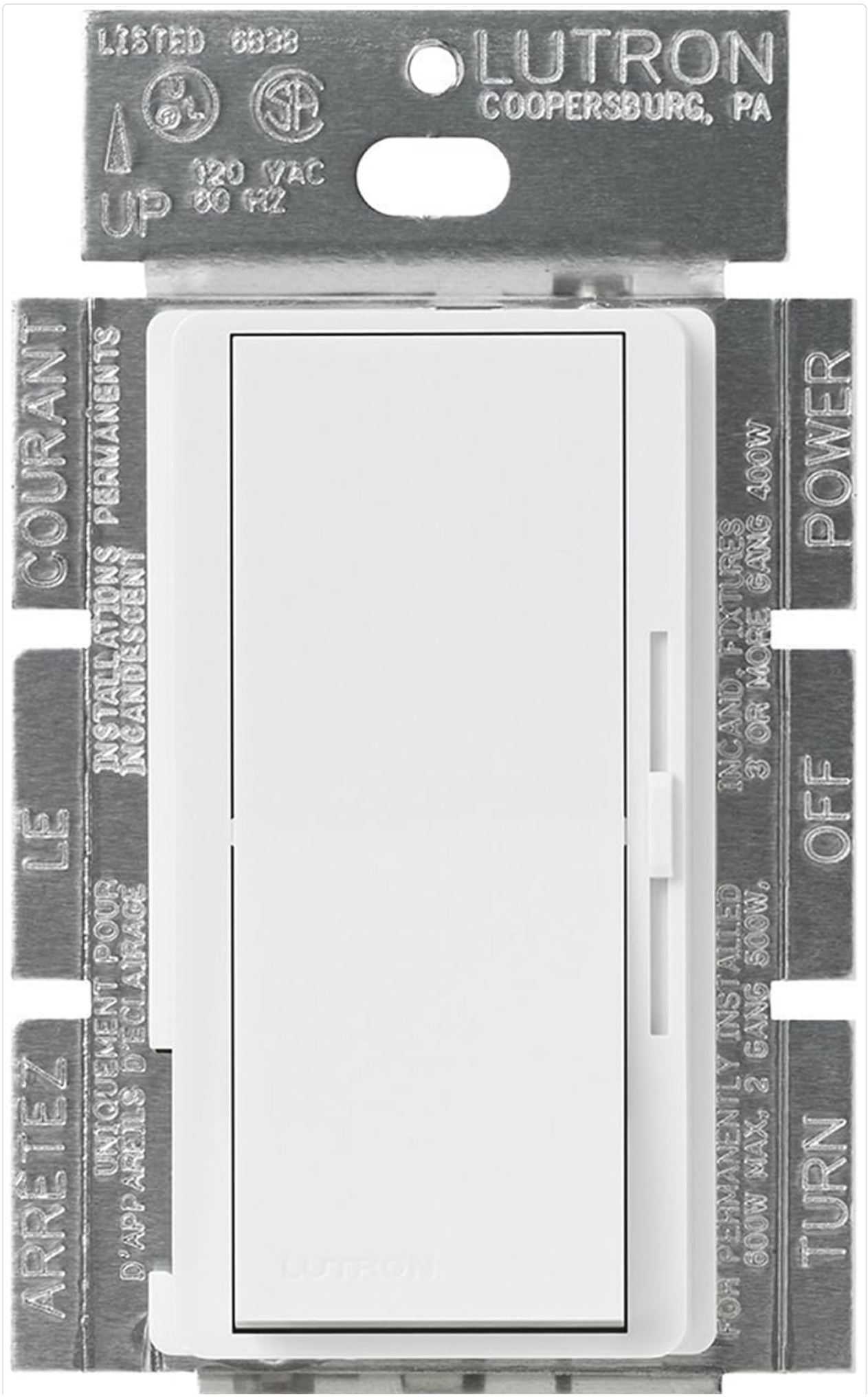
The Lutron DVF-103P-277-WH is a 1-pole/3-way slide dimmer designed for 277VAC applications. It features a built-in soft glow locator light and is designed to match existing designer-style switches.

3.1. Package Contents

- Lutron DVF-103P-277-WH Lighting Dimmer
- Wire Nuts
- Installation Guide (this manual)

Note: Wall plate is not included and must be purchased separately.

3.2. Dimmer Components



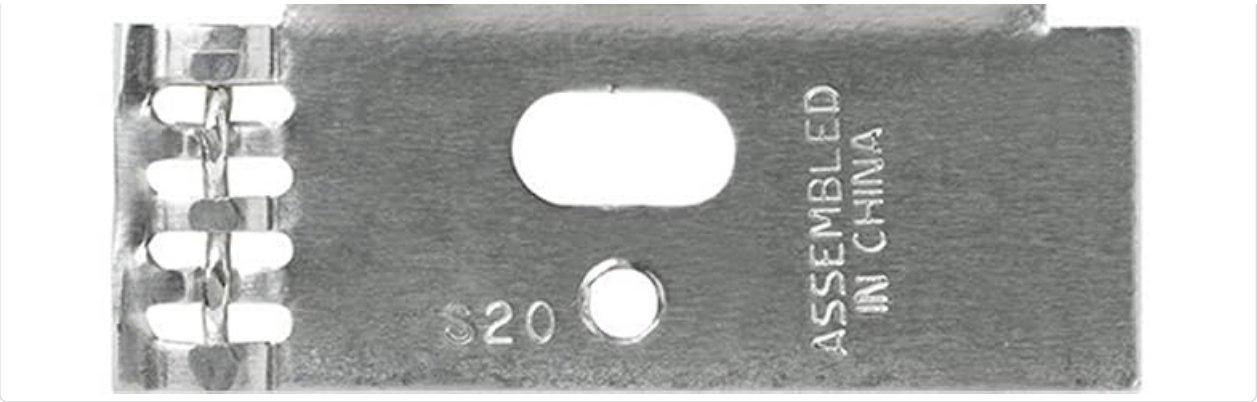


Figure 1: Front view of the Lutron DVF-103P-277-WH Lighting Dimmer. The image displays the white dimmer with a vertical slide control. Markings on the metal frame indicate "LISTED 6B38", "UP", "120 VAC 60 HZ", "COURANT", "INSTALLATIONS PERMANENTS INCANDESCENT", "LE", "ARRÊTEZ", "LUTRON COOPERSBURG, PA", "POWER", "OFF", "TURN", "FOR PERMANENTLY INSTALLED 800W MAX. 2 GANG 800W", "ON AND PALLAST 3 OR MORE GANG 40W", "ASSEMBLED IN CHINA", and a barcode with "820".



Figure 2: Packaging box for the Lutron DVF-103P-277-WH dimmer. The box is light brown/beige with "LUTRON" and "DIVA" logos. A label prominently displays "DVF-103P-277-WH" and a barcode with the UPC "0 27557 69729 3". Text below the barcode indicates

"Assembled/Ensamblado/Assemblé U.S.A./E.U.A./E.U." and "Model/Modelo/Modèle: DVF-103P-277". Further text describes the product as "6 A Single-Pole/3-Way Preset Dimmer (White) Fluorescent (277 V~ 60 Hz)".

4. Specifications

Feature	Detail
Model Number	DVF-103P-277-WH
Brand	Lutron
Lamp Type	3-Wire Fluorescent, LED
Switch Type	1-Pole, 3-Way
Style	Slide
Max. Capacity	6 Amps
Voltage	277 VAC
Wattage	1662 watts
Color	White
Wall Box Size	Single Gang
Dimensions (L x W x H)	1.8 x 2.1 x 4.1 inches
Item Weight	4.8 ounces
Standards	UL1472/CSA C22.2 184.1
UPC	027557697293

5. Installation

Before beginning, ensure power is OFF at the circuit breaker. This dimmer is designed for single-pole or 3-way applications. For 3-way installations, refer to the wiring diagrams provided with your lighting fixtures or consult a qualified electrician.

5.1. Wiring Instructions (Single-Pole)

1. **Turn Off Power:** Locate the circuit breaker that controls the lighting circuit and turn it OFF. Verify power is off by attempting to turn on the light.
2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Gently pull the switch out to expose the wiring.
3. **Identify Wires:**
    - **Hot (Line) Wire:** This wire brings power from the circuit breaker.
    - **Load Wire:** This wire goes to the lighting fixture.
    - **Ground Wire:** Typically bare copper or green.
    - **Neutral Wire:** (If present, typically white) This dimmer does not require a neutral wire for operation.
4. **Connect Dimmer Wires:** Use the provided wire nuts to connect the dimmer wires to the house wires according to

the diagram below (or specific instructions for 3-way). The dimmer uses screw terminals for connection.

    - Connect the dimmer's hot wire to the house hot (line) wire.
    - Connect the dimmer's load wire to the house load wire.
    - Connect the dimmer's ground wire to the house ground wire.

5. **Mount Dimmer:** Carefully fold the wires into the wall box and secure the dimmer with the mounting screws.
6. **Install Wall Plate:** Attach the decorative wall plate (not included) over the dimmer.
7. **Restore Power:** Turn power back ON at the circuit breaker.

Note: This dimmer does not require derating if ganged with other devices.

6. Operation

The Lutron DVF-103P-277-WH dimmer provides intuitive control over your lighting.

6.1. Basic Functions

- **Turning Lights On/Off:** Press the large paddle switch to turn the lights ON or OFF.
- **Dimming:** Use the vertical slide control to adjust the light level. Slide up for brighter, down for dimmer.
- **Locator Light:** The built-in soft glow locator light illuminates when the lights are off, making the dimmer easy to find in the dark.

6.2. Adjustable Low-End Trim

The dimmer features an adjustable low-end trim to optimize performance with various LED and fluorescent lamps. This allows you to set the minimum light level to prevent flickering or ensure stable operation at low dimming levels.
Refer to the detailed instructions included with the dimmer for specific steps on adjusting the low-end trim. Typically, this involves a small adjustment dial or switch located behind the wall plate or on the side of the dimmer module.

7. Maintenance

The Lutron DVF-103P-277-WH dimmer requires minimal maintenance.

- **Cleaning:** To clean the dimmer, wipe with a soft, damp cloth. Do not use chemical cleaners or abrasives.
- **No User Serviceable Parts:** There are no user-serviceable parts inside the dimmer. Do not attempt to open or repair the unit.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Lights do not turn ON.	◦ Power is off at the circuit breaker. ◦ Loose wire connection. ◦ Incorrect wiring. ◦ Bulb(s) burned out.	◦ Check and reset the circuit breaker. ◦ Turn off power, check all wire connections. ◦ Verify wiring against installation instructions. ◦ Replace bulb(s).

Problem	Possible Cause	Solution
Lights flicker or do not dim smoothly.	◦ Incompatible lamp type. ◦ Low-end trim not adjusted correctly. ◦ Load is too low or too high.	◦ Ensure lamps are dimmable 3-wire fluorescent or LED. ◦ Adjust the low-end trim setting. ◦ Verify total wattage/amperage of lamps is within dimmer's capacity (Max. 6A, 1662W).
Dimmer is warm to the touch.	Normal operation.	This is normal for dimmers under load. If it feels excessively hot or smells, turn off power and consult an electrician.

9. Warranty and Support

Lutron products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Lutron website.
For technical assistance or further support, please contact Lutron customer service. Contact information can typically be found on the Lutron website or product packaging.
You can visit the Lutron Store on Amazon for more products and information:Lutron Store

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question