

Ariadni® DIVA®

Preset Fluorescent Dimmer

Installation Instructions

Please Leave for Occupant

Package Contents



Ariadni®



Diva®

- Single-pole/3-way dimmer
- Mounting screws (2)
- Wire connectors:
 - single-pole cap off (1, small)
 - single-pole/3-way (6)



Important Notes

1. **CAUTION:** To reduce the risk of overheating and possible damage to other equipment, do not use to control receptacles, motor-operated appliances, or transformer-supplied appliances.
2. These dimmers require a neutral connection in the wallbox. If your wallbox does not have a neutral, one must be run. The dimmers will not operate without one.
3. When no "grounding means" exist within the wallbox then the NEC® 2002, Article 404-9 allows a dimmer without a grounding connection to be installed as a replacement, as long as a plastic, noncombustible wallplate is used. For this type of installation, cap or remove the green ground wire on the dimmer and use an appropriate wallplate such as Lutron's Claro® or Fassada™ series wallplates.
4. Use with Lutron Hi-lume® FDB or Eco-10™ Electronic Fluorescent Dimming Ballasts only. Do not use with any other ballasts.

Single-Pole/3-Way

120V Models:

AYF-103P

DVF-103P

DVSCF-103P

277V Models:

AYF-103P-277

DVF-103P-277

DVSCF-103P-277

5. Capacity:

Dimmer Model	Approx. No. of lamps	Max. Current*
AYF-103P	20	8A
DVF-103P	20	8A
DVSCF-103P	20	8A
AYF-103P-277	40	6A
DVF-103P-277	40	6A
DVSCF-103P-277	40	6A

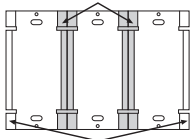
- * As measured from incoming hot wire (blue) on dimmer. To determine total load on the dimmer circuit, refer to ballast label. Each ballast has an associated input current. The total load is found by adding up all the ballast currents for all ballasts on the dimmer.

6. Use only the lamp types listed on the label of the ballast. Compact fluorescent lamps must have 4 pins for dimming.
7. AYF-103P, DVF-103P, and DVSCF-103P operate at 120V only. AYF-103P-277, DVF-103P-277, and DVSCF-103P-277 operate at 277V only.
8. In multi-phase applications, use a separate neutral for each dimmer circuit. If further information is necessary, contact the Lutron Hotline 1-800-523-9466.
9. Do not use two dimmers in the same 3-way circuit.
10. Wire dimmer in accordance with all national and local electrical codes.
11. This dimmer is designed to operate in temperatures between 0°C and 40°C (32°F to 104°F).
12. The Diva® dimmer is compatible with designer-style and Lutron screwless Claro® wallplates. The Ariadni® dimmer is compatible with standard wallplates and Lutron Fassada™ wallplate. Wallplates are not included.
13. The wire connectors provided are suitable for copper wire only. They can be used to join one No. 18, 16, 14, 12, or 10 gauge wire with one or two No. 14 or 12 gauge wires.
14. **Clean dimmer with a soft damp cloth only.** Do not use any chemical cleaners.

Multigang Installations

Dimmers can be grouped together or with standard switches under a common wallplate. When ganging these dimmers, remove the inner side sections. No capacity derating is required for these dimmers.

Remove all inner side sections (shaded) in any ganged installation.



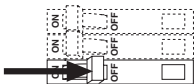
Do not remove outer side sections.

Before Installation

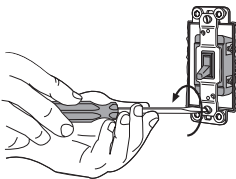
CAUTION: Check new installations for short circuits **BEFORE** installing the fluorescent dimmer. Turn power OFF at circuit breaker or fusebox. Connect a standard switch as shown in the Test Switch Wiring Diagram. Turn power ON. If lights do not come on, a break in the wiring exists. If the breaker trips, there is a short in the wiring. If necessary, turn power OFF and correct any wiring problems, recheck the circuit, then proceed to Installation. Warranty is void if dimmer is turned ON in a shorted circuit.

Installation

1. **WARNING:** Turn power OFF at circuit breaker or remove fuse.

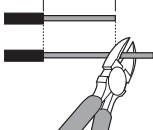


2. Remove test switch from wallbox.



3. Strip insulation or trim wires to expose 1/2" or 5/8" of wire:
1/2" for 10, 12, and 14 gauge.
5/8" for 16 and 18 gauge.

1/2" or 5/8"



4A. Single-pole wiring

(See Single-Pole Wiring Diagram)

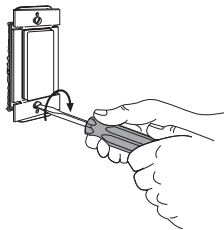
- Connect the bare or green ground wire of the dimmer to the bare or green ground wire in the wallbox.
- Using a wire connector provided, cap off the violet wire. This wire is only used in a 3-way installation.
- Connect the white dimmer wire to the neutral wire in the wallbox.
- Connect the blue dimmer wire to the 120V or 277V supply (hot) wire.
- Connect the red dimmer wire to the wire going to the black wire of the ballasts.
- Connect the yellow dimmer wire to the wire going to the orange wire of the ballasts.

4B. 3-way wiring

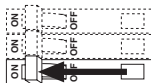
(See 3-Way Wiring Diagram)

- Connect the bare or green ground wire of the dimmer to the bare or green ground wire in the wallbox.
- Connect the white dimmer wire to the neutral wire in the wallbox.
- Connect the blue dimmer wire to one of the two wires coming from the other switch location.
- Connect the violet dimmer wire to the second wire coming from the other switch location.
- Connect the red dimmer wire to the wire going to the black wire of the ballasts.
- Connect the yellow dimmer wire to the wire going to the orange wire of the ballasts.

5. Mount and align dimmer. Do not pinch wires.

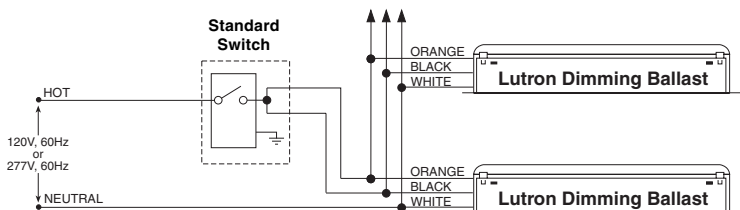


6. Screw on faceplate.
7. Turn power ON.



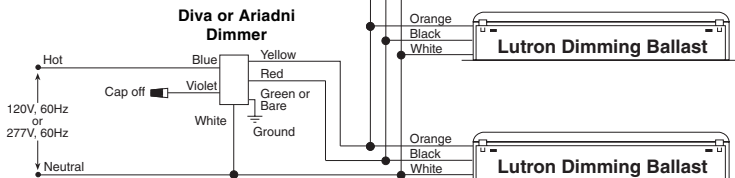
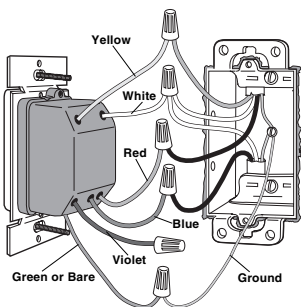
Test Switch Wiring Diagram

To additional Lutron Dimming Ballasts



Single Pole Wiring Diagram

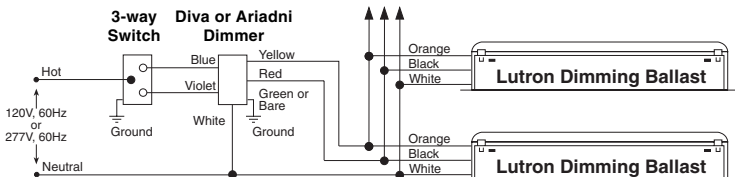
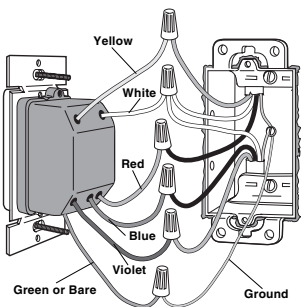
To additional Lutron Dimming Ballasts



Note: Wire location will vary by product. Reference wires by color, not location.

3-Way Wiring Diagram

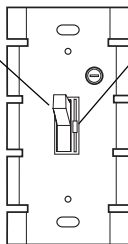
To additional Lutron Dimming Ballasts



Note: Wire location will vary by product. Reference wires by color, not location.

Ariadni® Operation

Toggle switch turns lights on to preset level.



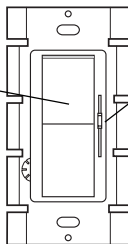
Slider moves up to brighten and down to dim lights to desired level.

True 3-way.

A 3-way dimmer and a standard 3-way switch provide preset switching from both locations and light level control from the dimmer.

Diva® Operation

Paddle switch turns lights on to preset level.



Slider moves up to brighten and down to dim lights to desired level.

True 3-way.

A 3-way dimmer and a standard 3-way switch provide preset switching from both locations and light level control from the dimmer.

Technical Assistance

If you have questions concerning the installation or operation of this product, call the **Lutron Technical Support Center**. Please provide exact model number when calling. (800) 523-9466 (U.S.A., Canada, and the Caribbean)
Other countries call (610) 282-3800
Fax (610) 282-3090
Internet: www.lutron.com

Lamp Aging

Best dimming performance is achieved after new lamps have been aged (burned-in) by running at full intensity for at least 100 hours.

Minimum Light Level Adjustment

This unit is factory calibrated and does not normally require low-end light level adjustment. If lamps flicker or drop out at the minimum dimming level, there may be an installation error or the low-end light level may need to be reset. Continued use of the system in this mode will cause premature lamp failure. If this is occurring, call the **Lutron Technical Support Center** at: 1-800-523-9466

Limited Warranty

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year 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.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO ONE YEAR FROM PURCHASE. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION, REMOVAL OR REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so the above limitations may not apply to you.

This product may be covered by one or more of the following U.S. patents: 4,803,380; 4,835,343; 4,876,498; 4,954,768; 5,207,317; 5,262,678; 5,359,231; DES 342,234; DES 364,141 and corresponding foreign patents. U.S. and foreign patents pending. Lutron, Ariadni, Claro, Diva, and Hi-lume are registered trademarks and Eco-10 and Fassada are trademarks of Lutron Electronics Co., Inc. NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.

© 2003 Lutron Electronics Co., Inc.

LUTRON®

Lutron Electronics Co., Inc.
7200 Suter Road
Coopersburg, PA 18036-1299

Made and printed in the U.S.A. 10/03 P/N 031-159 Rev. C