

CAUTION!

- To avoid overheating and possible damage to equipment, do not use the GRAFIK Eye 2800 Series Control Unit to control a receptacle, a motor-operated appliance, a transformer-supplied appliance, or a fluorescent lighting fixture.
- Lutron recommends that the GRAFIK Eye 2800 Series Control Unit be installed by a qualified electrician.
- Install in accordance with all applicable regulations.

Description

GRAFIK Eye 2800 Series Control Units provide preset dimming control of multiple lighting zones. A **zone** is a single light or group of lights controlled simultaneously. The GRAFIK Eye 2800 Series Control Units can control up to 6 zones of lighting, depending on the model number of the unit. A combination of user-defined zone intensities creates a lighting **scene**. Although the GRAFIK Eye 2800 Series Control Unit is supplied with factory preset scenes, the scenes can be changed to customize a room's lighting.

Up to four scenes can be stored in memory and instantly recalled at the touch of a button. If a power outage occurs, the GRAFIK Eye 2800 Series Control Unit retains these scene settings. When power is restored, the lighting will return to the scene that was in use prior to the power outage.



GRAFIK Eye 2800 Series Control Unit

System Specifications

Input Power:
220-240VAC, 50/60Hz

Environmental Temperature Range:
32°F to 104°F (0°C to 40°C)

Unit Load Capacity:
Incandescent/Tungsten: 1000W/VA.

Load Capacity per Zone (without Power Booster):
Incandescent/Tungsten: 40W to 800W per zone @ 240V, not to exceed unit capacity.

Magnetic Low-Voltage: 60VA to 800VA per zone @ 240V, not to exceed unit capacity. The load of low-voltage inductive transformers in VA = the low-voltage lamp watts X 1.3 (representing a 30% loss due to the transformers).
Example: 5 low-voltage lamps at 50W each = 250 lamp watts X 1.3 = 325VA.

If your zone capacity needs are greater than those listed, a power booster (NGRX-PB-AU) is available from Lutron.

Fade Time:
3 seconds to On, 3 seconds between scenes, and 3 seconds to Off.

Installation

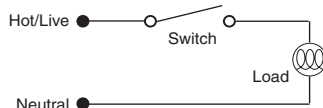


Warning: Always turn Off the circuit breaker or remove the main fuse from the power line before doing any work. Failure to do so can result in serious personal injury or damage to the unit.


New Installations

For new installations, it is important to check each zone for short or open circuits by using the following procedure:

1. Turn power Off.
2. Connect a standard switch between the hot/live lead and the load wire to test the circuit.
3. Turn power On and check for short or open circuits: if the load does not operate, the circuit is open; if the breaker trips (fuse blows), the circuit is shorted.
4. Correct any open or shorted circuits and test again.



For All Installations

1. Turn power Off.
2. Strip insulation from wallbox wires as shown:
 
3. Remove faceplate from GRAFIK Eye 2800 Series Control Unit. (The hinged cover and base are supplied as one piece and referred to as the faceplate.) To remove the faceplate, pull outward at each corner, one corner at a time. Set faceplate aside and remove bezel.

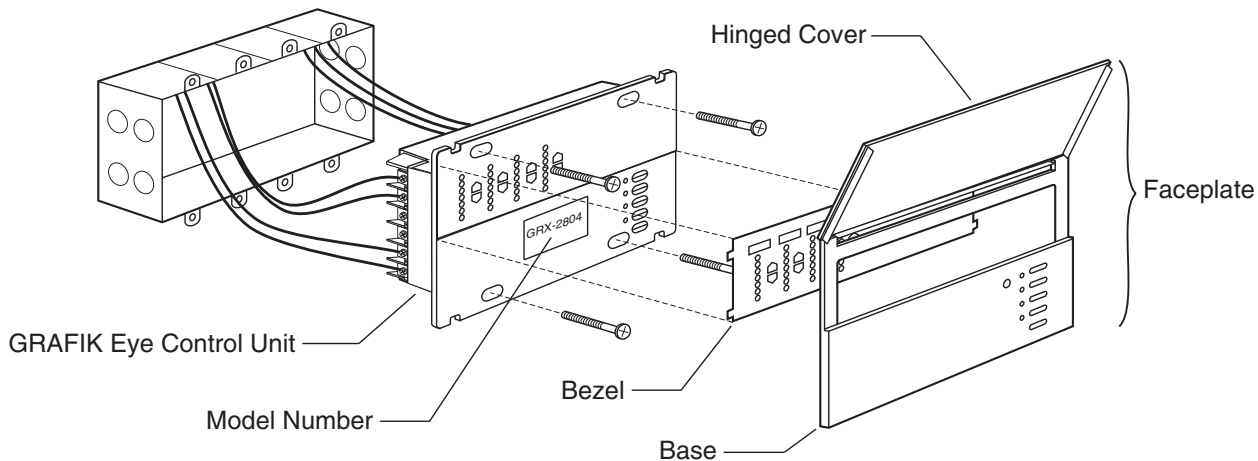
4. Connect wiring to the terminal blocks as shown on the Wiring Diagrams on page 3. Each line-voltage terminal will accept up to two #12 AWG (2.5mm²) wire.
5. Confirm that all power connections are made according to the Wiring Diagram on page 3.
6. Mount the GRAFIK Eye 2800 Series Control Unit as shown below. After mounting, replace bezel and attach faceplate by pressing in at each corner, one corner at a time. Restore power to the GRAFIK Eye 2800 Series Control Unit.

Important Notes

- Be sure to connect the ground/earth terminal to a properly grounded/earthed wallbox. If the wallbox is plastic, connect the ground/earth terminal to the incoming ground/earth wire.
- When mounted in the wallbox, the Class 2/PELV cable and terminal block should remain separated from the line voltage/mains cables.
- Be sure to connect each zone to its proper zone terminal.
- If using low-voltage lighting, use only with magnetic low-voltage transformers.
- If multiple GRAFIK Eye Control Units and/or Power Boosters are mounted one above the other, a space of 4.5 in. (12 cm) minimum must be allowed between the faceplates.
- **CAUTION!**

To avoid excessively high current flow in dimmed low-voltage circuits, which can cause transformer overheating and failure:

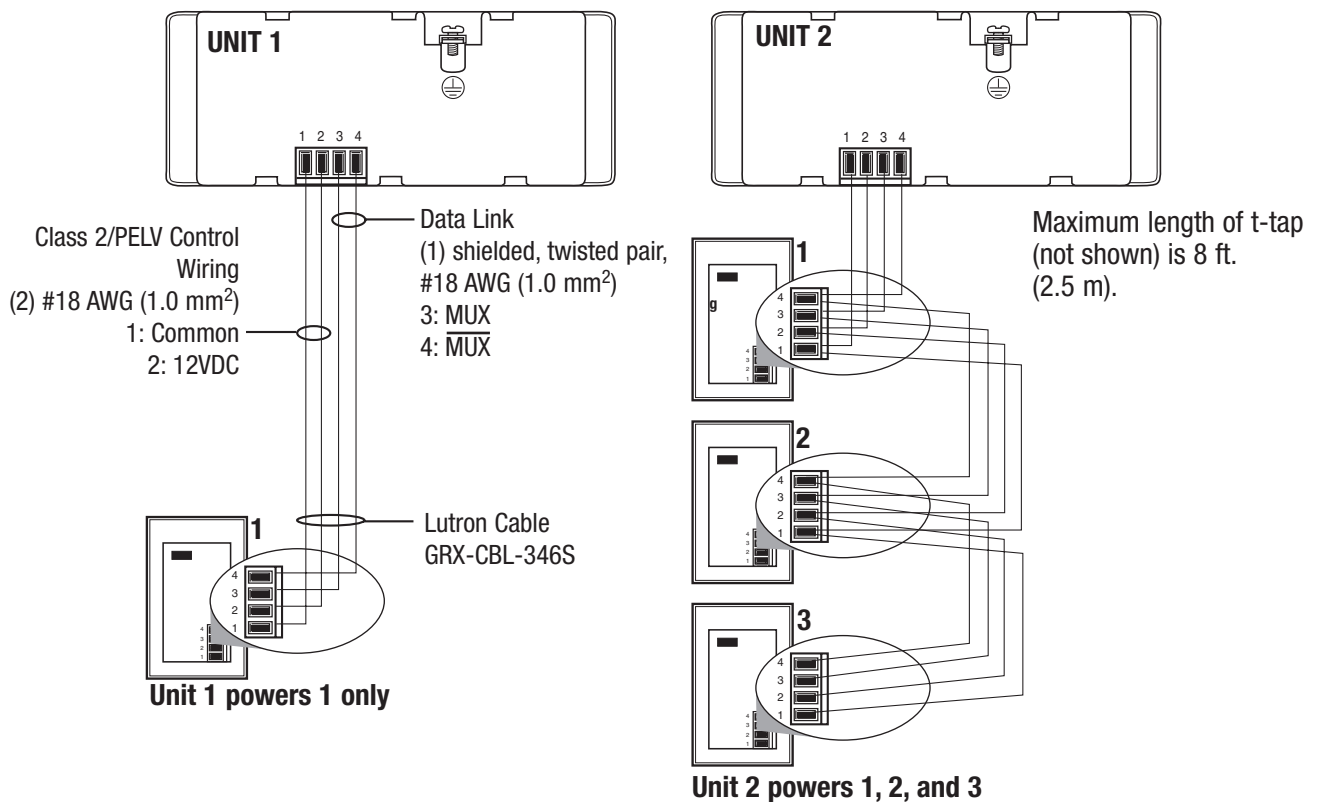
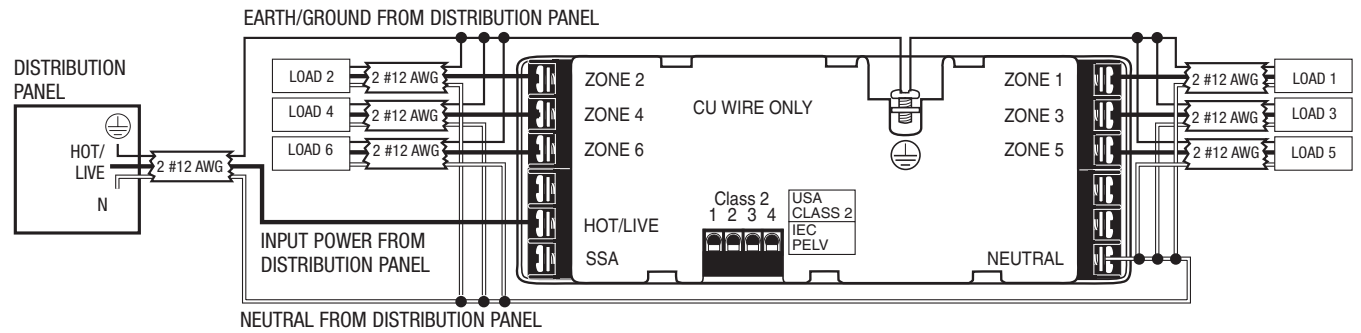
- Use only transformers that incorporate thermal protection or fused primary windings.
- Do not operate the unit with all of the lamps removed or with any inoperative lamps.
- Replace any burned out lamps immediately.



Mounting the GRAFIK Eye 2800 Series Control Unit

Wiring Diagrams

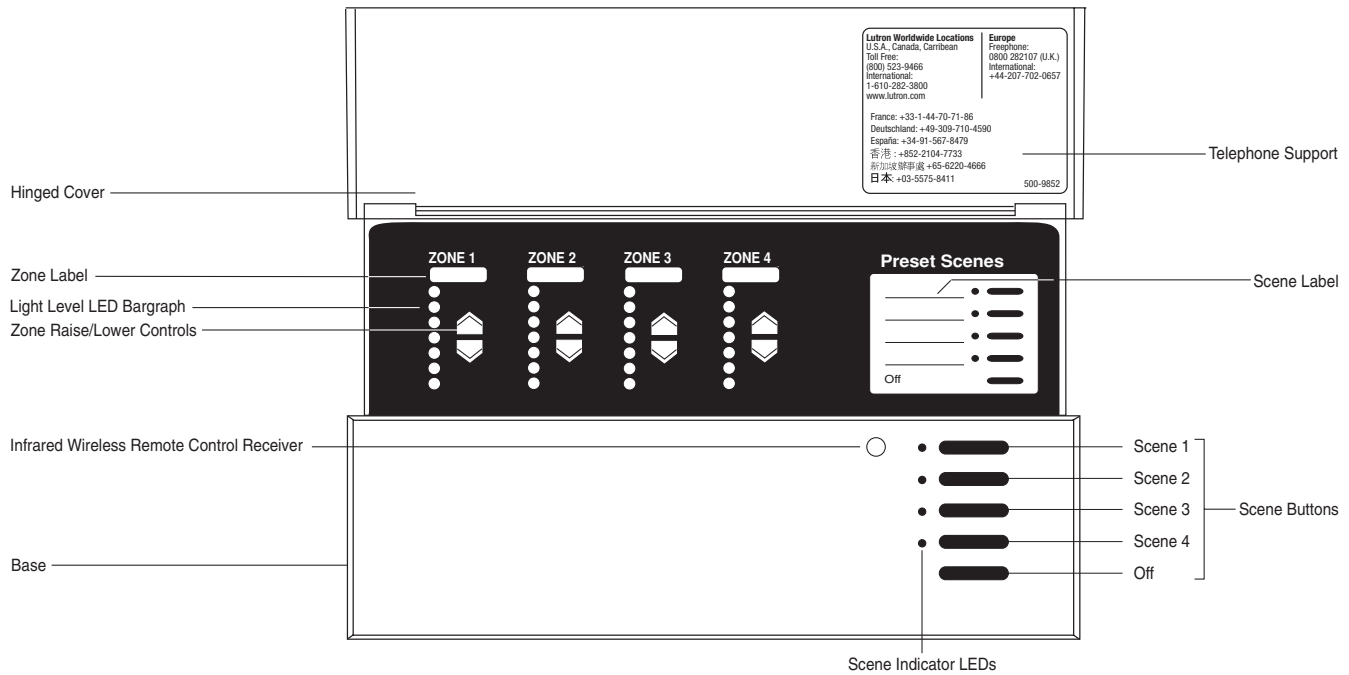
GRX-2806-AU Shown



IMPORTANT WIRING NOTES!

1. Each Class 2/PELV terminal can accept up to two #18 AWG (1.0 mm²) wires.
2. Daisy-chain the terminal 1, terminal 2, terminal 3, and terminal 4 connections of the Control Unit to a maximum of three Wallstations. Each Control Unit has *its own* power supply.
3. Lutron recommends that all connections be made in the Control Unit's wallbox. Remote connection must be in a switch-box or junction box with a maximum wire length of 8 ft. (2.5 m) from the link to the connected unit.
4. Do not allow Class 2/PELV wires to contact line/mains wires.

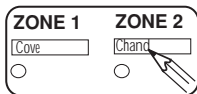
Programming



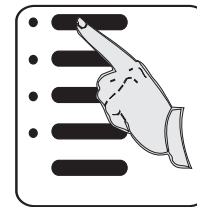
After installing the GRAFIK Eye 2800 Series Control Unit, the scenes may be customized for a particular environment. Although the factory preset scenes may fulfill the room's lighting requirements, scenes are easily customized.

1. Label the Zones

A **zone** is a single light or group of lights controlled simultaneously as a single unit (e.g., cove lighting or a chandelier). Label the zones by writing a description of the zone on the zone label located under the hinged cover.



2. Select a Scene



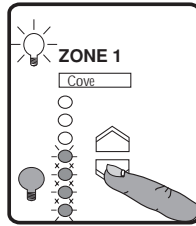
Press any one of the Scene buttons on the GRAFIK Eye 2800 Series Control Unit and the light level will change to the factory preset intensity listed below:

Factory Preset Intensity Level of All Zones	
Scene 1	→ 100%
Scene 2	→ 75%
Scene 3	→ 50%
Scene 4	→ 25%
Off	→ 0%

To indicate which scene is currently active, the GRAFIK Eye 2800 Series Control Unit lights an LED next to the appropriate Scene button. When the GRAFIK Eye 2800 Series Control Unit is Off, all four Scene indicator LEDs are dimly lit. This allows the GRAFIK Eye 2800 Series Control Unit to be easily located in a dark room.

Programming (continued)

3. Adjust the Light Level of Each Zone

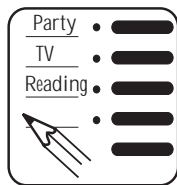


Each zone's intensity level is represented by a group of green LEDs: the greater the number of LEDs that are lit, the higher that zone's intensity level for the scene. Adjust each zone by pressing the zone raise/lower controls. After adjusting the light level of each zone, the scene is programmed and the zone intensity levels are automatically saved.

4. Perform Steps 2 and 3 to set up the remaining Scenes

5. Label the Scenes

Label the scenes by writing a description of the scene on the scene label located under the hinged cover.



Congratulations, you are now ready to enjoy your GRAFIK Eye 2800 Series Control Unit!

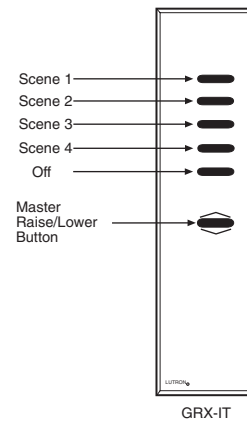
Operating the GRAFIK Eye 2800 Series Control Unit

After programming is complete, press any Scene button to select that scene or press the Off button to turn the GRAFIK Eye 2800 Series Control Unit Off. The scenes can also be selected by pressing the corresponding Scene buttons on an optional GRX-IT.

Optional Control

Scene Selection with the GRX-IT Infrared Wireless Remote Control

The optional GRX-IT Infrared Wireless Remote Control can be used to remotely select the four scenes on your GRAFIK Eye 2800 Series Control Unit.



Troubleshooting

Symptom	Cause	Solution
No LEDs are lit on GRAFIK Eye 2800 Series Control Unit	Breaker is Off/fuse is blown Off button is selected All zones in scene are set to Off	Switch breaker On or replace fuse. Press any Scene button. Adjust zone intensity settings.
GRAFIK Eye 2800 Series Control Unit does not turn lights On	Breaker is Off/fuse is blown All zones in scene are set to Off Miswire System short circuit System overload	Switch breaker On or replace fuse. Adjust zone intensity settings. Confirm that load wires are connected to the GRAFIK Eye (refer to Wiring Diagram). Confirm that hot/live wire is connected to hot/live terminal and neutral wire to neutral terminal (see Wiring Diagram). Find and correct shorts in fixtures and wallbox. Confirm that the GRAFIK Eye's maximum rated load has not been exceeded.
Individual Zone Control does not work	Disconnected wires Burned-out bulbs	Connect zone wires to loads (refer to Wiring Diagram). Replace bad bulbs.
One or more zones are Full-On when any Scene is On and Zone Intensity is not adjustable	Miswire Shorted triac	Confirm that loads are connected to proper zones (refer to Wiring Diagram). Replace Control Unit.
One Zone raise/lower control affects more than one zone	Miswire	Ensure that only one zone is wired per zone terminal.
Faceplate is warm	Solid-state controls dissipate about 2% of the connected load as heat	Normal; no action required.
Infrared Wireless Remote Control has no effect on GRAFIK Eye 2800 Series Control Unit	Dead or no batteries in GRX-IT Batteries inserted incorrectly Line of sight to receiver is blocked	Install new batteries. Install batteries according to diagram. Aim GRX-IT at infrared wireless remote control receiver.

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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 improper or incorrect repair, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages. Lutron's liability on any claim for damages arising out of or in connection with the manufacture, sale, installation, delivery, or use of the unit shall never exceed the purchase price of the unit.

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