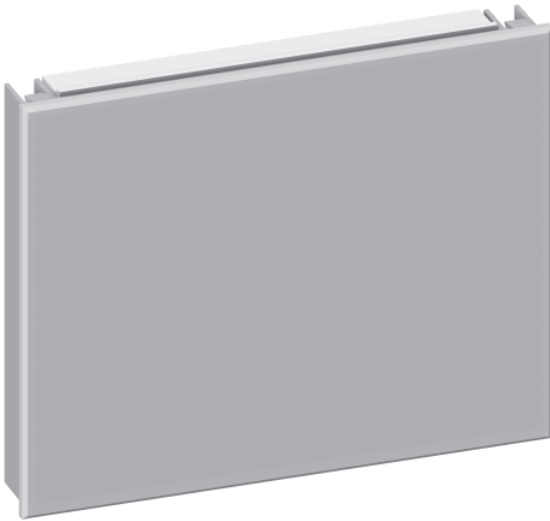


3-Wire Fluorescent Power Module



Description

- Provides capability for a zone on a *GRAFIK Eye* control unit (or other product) to dim fluorescent lights that have Lutron® Hi-lume® and Eco-10® (Eco Series) line-voltage control electronic dimming ballasts.
- Utilizes Softswitch® arcless switching technology.
- Up to 3 power modules may be wired on a single *GRAFIK Eye* zone.
- Models available for 120 V~ control power.
- Models available for 120 V~ or 120 - 277 V~ load power.

Works with 120 V~ versions of:

- Lutron 3-wire fluorescent dimmers (consult Lutron for Vierti®); see approved list in the dimmers & switches specification guide at www.lutron.com
- *GRAFIK Eye* QS control units
- *GRAFIK Eye* 3000 Series control units
- LP, LCP, and GP dimming panels
- HomeWorks® remote power panels

Models and Capacities

Control Power	Load Power	Capacity	Model Number
120 V~	120 - 277 V~	16 A	PHPM-3F-DV-WH
120 V~	120 V~	16 A	PHPM-3F-120-WH

Job Name:

Model Numbers:

Job Number:

Specifications

Power

- Control / load power:
120 V $\sim$ / 120 V $\sim$
120 V $\sim$ / 120-277 V $\sim$
50/60 Hz, phase-to-neutral.
- Load (output) power: Phase independent of control unit.

Sources/Load Types

- Operates Lutron® Hi-lume®, Eco-10® (Eco Series), Compact SE™, EcoSystem®, and EcoSystem Compact line-voltage control electronic dimming ballasts with a smooth continuous Square Law dimming curve.

Key Design Features

- Patented RTISS™ circuitry compensates in real time for incoming line voltage variations: Compensates for +/-2% change in RMS voltage/cycle and +/-2% Hz change in frequency/second.
- Provides air-gap off.
- Module protects itself during temporary over-current conditions on dimmed output.
- Two LEDs on front of unit provide diagnostic information (visible when faceplate is removed).

Terminals

Accept up to two 12 AWG (2.5 mm²) wires.

Environment

- 32 to 104 °F (0 to 40 °C). Relative humidity less than 90% non-condensing.
- Indoor use only.
- Maximum heat output of module: 15 BTU/hour.

Mounting

- Surface or recess mount.
- Power module is UL tested and approved for use in spaces designed for environmental air handling.

Job Name:

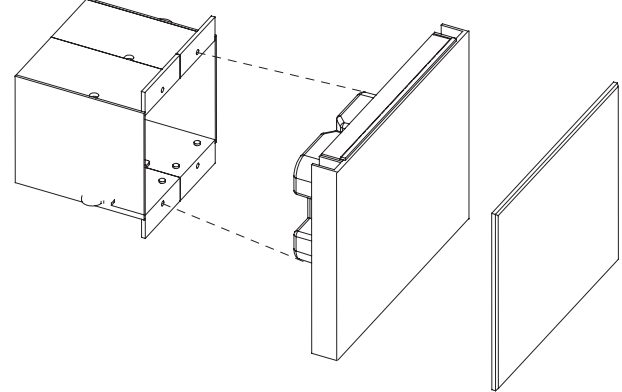
Model Numbers:

Job Number:

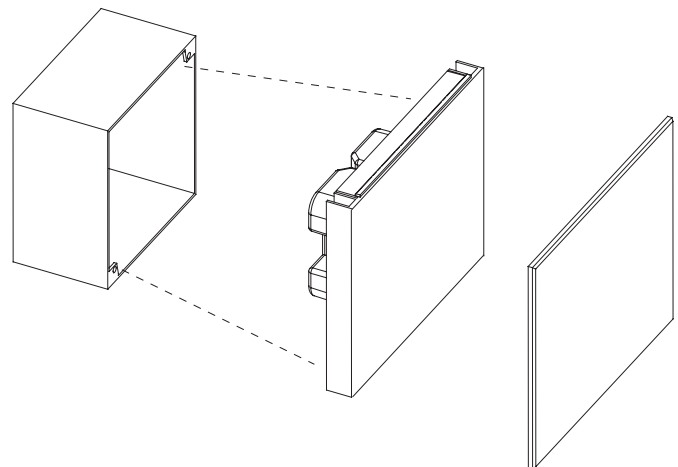
Dimensions and Mounting

- Mount in 2-gang U.S. wallbox 3.5 in (89 mm) deep or 4 x 4 in (102 x 102 mm) junction box 2.1 in deep (53 mm).
- Indoors only.
- This device generates heat; mount only where ambient temperature is 32 to 104 °F (0 to 40 °C).
- Mount with arrows facing up to ensure adequate cooling.
- Allow 4.5 in (114 mm) above and below unit and between faceplates when mounting several in a vertical layout.
- Mount so line (mains) voltage wiring is at least 6 ft (1.8 m) from sound or electronic equipment and wiring.
- Mount within 7° of true vertical.

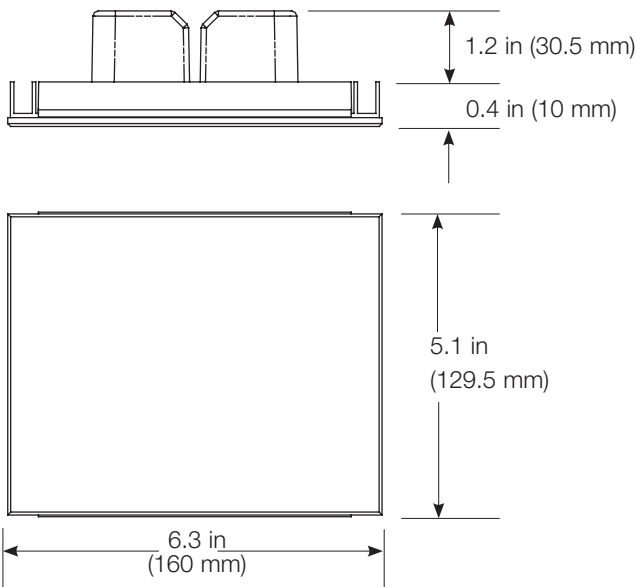
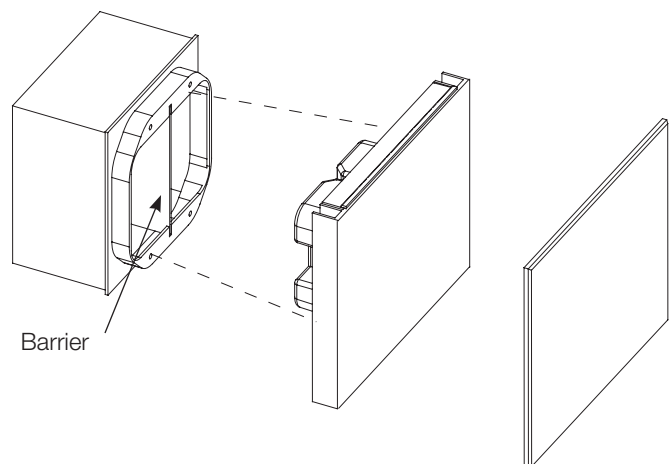
Mount to 2-gang U.S. wallbox



Mount to 4 x 4 in (102 x 102 mm), 2.1 in (53 mm) deep U.S. junction box



Mount to 4 x 4 in (102 x 102 mm), 2.1 in (53 mm) deep U.S. junction box with barrier (for 277 V~ model if required by local electrical code)



Job Name:

Model Numbers:

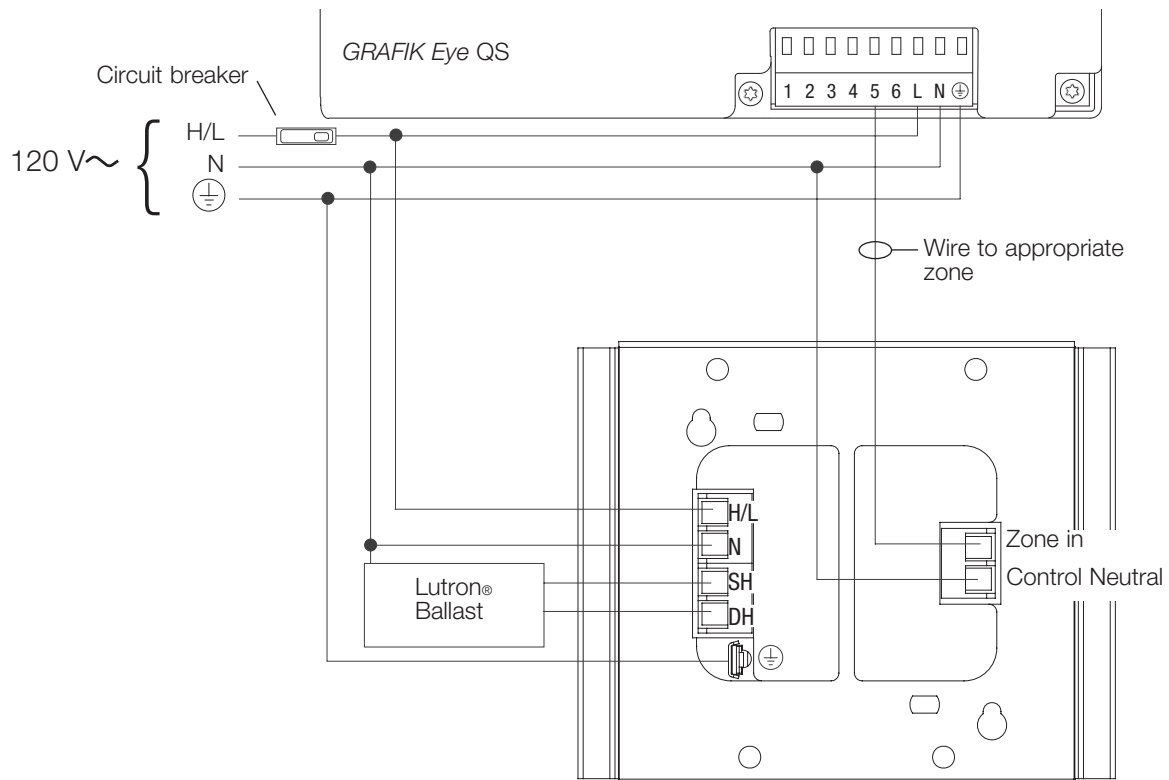
Job Number:

Wiring

- Pull 12 AWG (2.5 mm²) copper (Cu) wires (75 °C/167 °F minimum) for input power and load circuit.
- Strip 1/2 in (12 mm) insulation from wires before connecting.
- Run separate neutral for load circuit - no common neutrals.
- May be used with GFI breaker protected loads. Load circuit wiring (from GFI breaker to power module to load) must be run in its own non-metallic conduit, or nuisance tripping may occur. Maximum 100 ft (30.5 m) between power module and load.
- May be used with AFI breaker protected loads. Maximum load on AFI circuit is 1000 W. Exceeding 1000 W may cause nuisance tripping of AFI breaker.

Single Power Feed

Note: The power module may be on the same circuit as the control unit only if the total load does not exceed the rating of the breaker.



Legend

H/L	Hot/Live
N	Neutral
SH	Switched Hot
DH	Dimmed Hot
⊕	Ground
○	Not Used

Job Name:

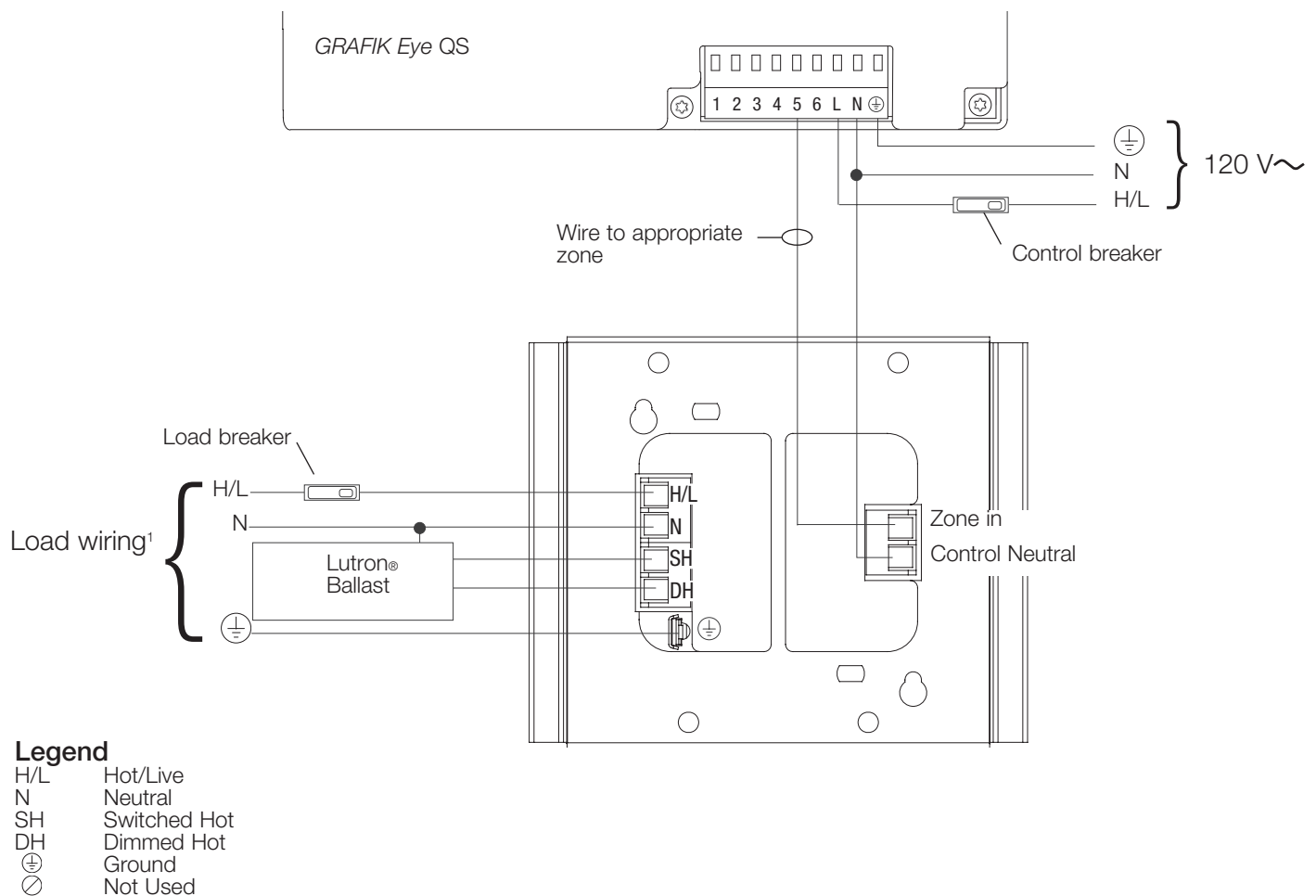
Model Numbers:

Job Number:

Wiring

Multiple Power Feeds

The load breaker may be on a different phase than the control breaker.



¹Load feed: 120 V~ for PHPM-3F-120-WH;
120 – 277 V~ for PHPM-3F-DV-WH

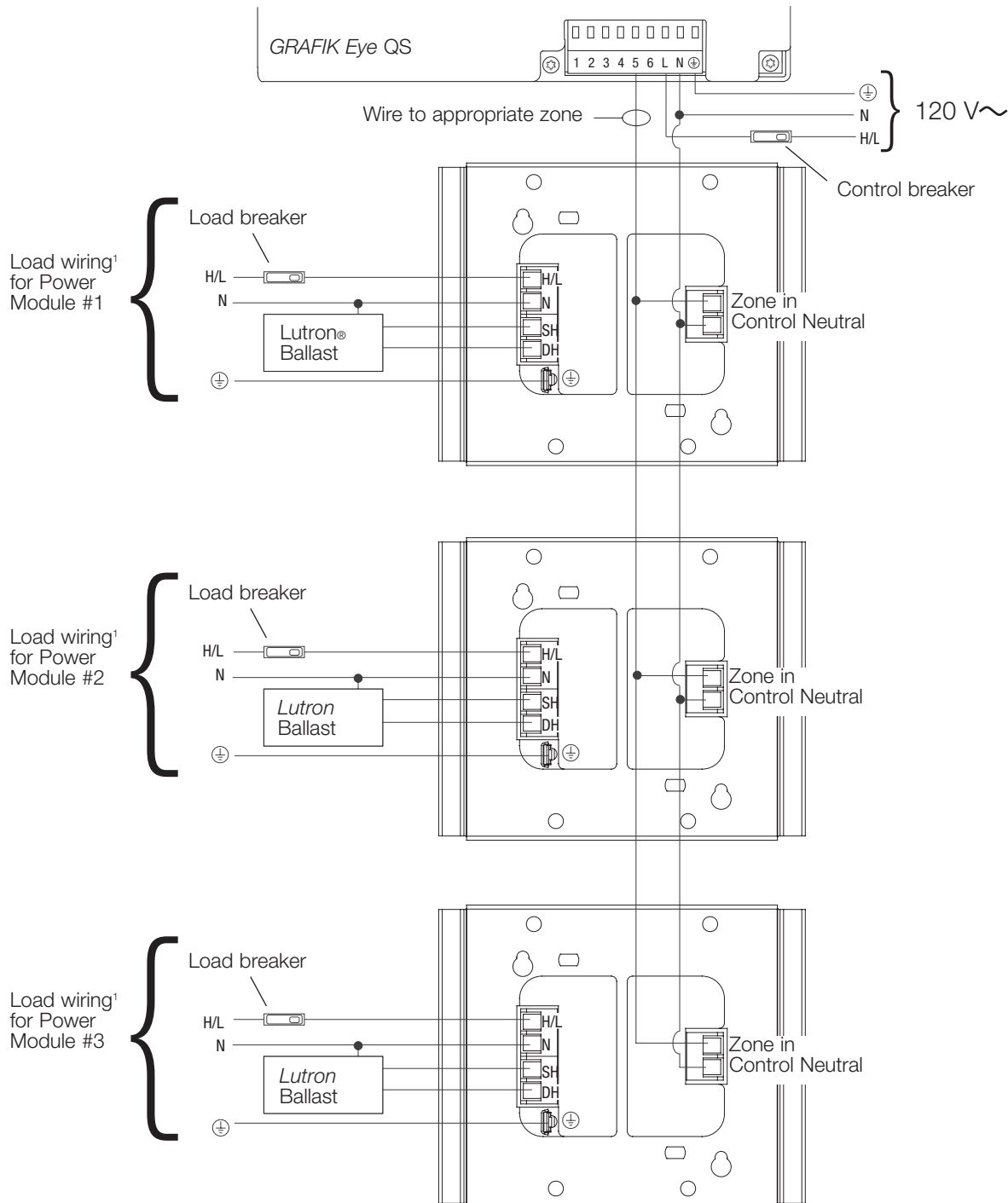
Job Name:

Model Numbers:

Job Number:

Wiring Multiple Power Modules to a Single GRAFIK Eye® Zone

Shown with separate feeds for control and loads. All breakers must be turned off prior to installing or servicing the modules. Up to 3 power modules may be wired to a single zone.

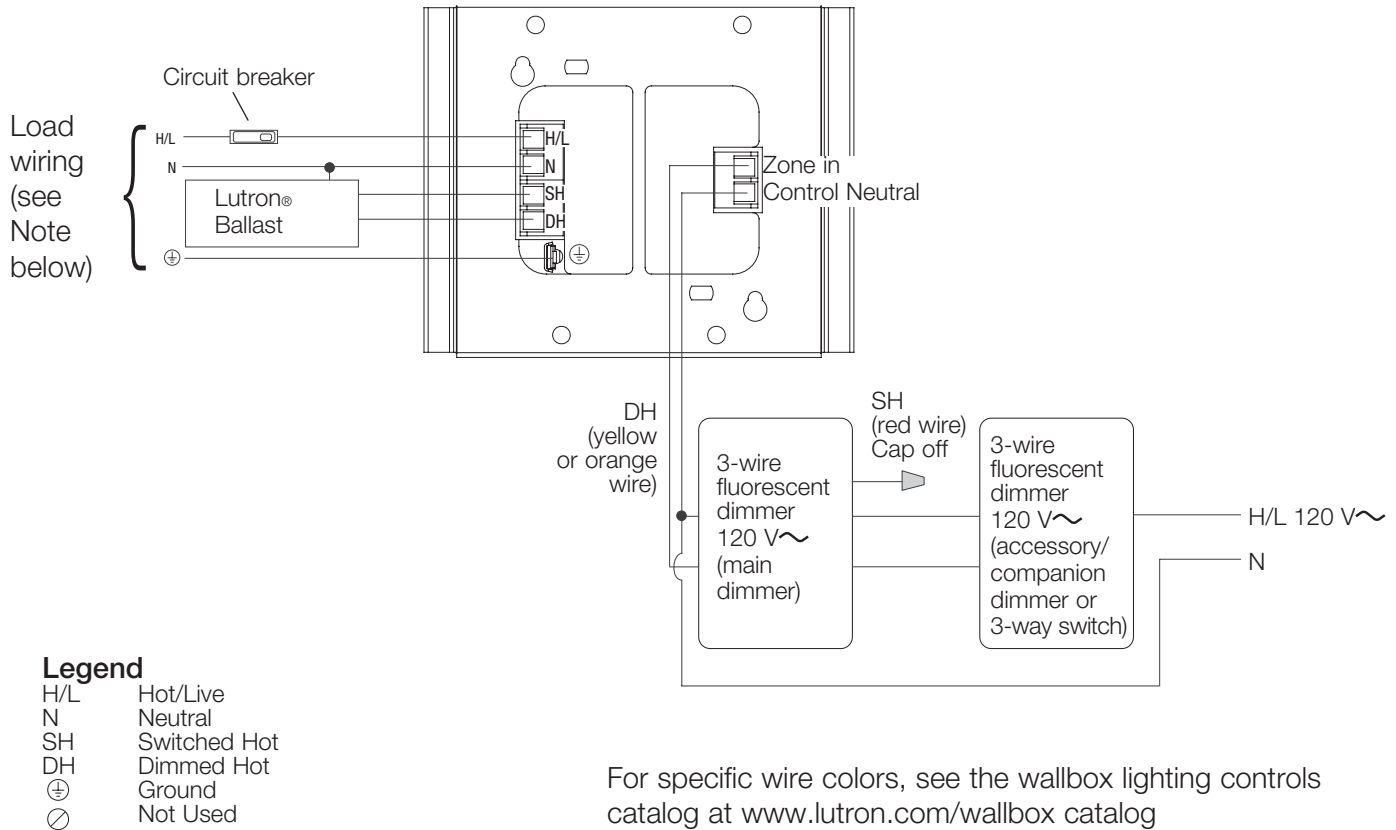


¹Load feed: 120 V~ for PHPM-3F-120-WH; 120 – 277 V~ for PHPM-3F-DV-WH

Job Name:	Model Numbers:
Job Number:	

Multilocation Wiring

Note: The power module may be on the same circuit/control zone as the control device only if the total load does not exceed the rating of the breaker (120 V~ only).

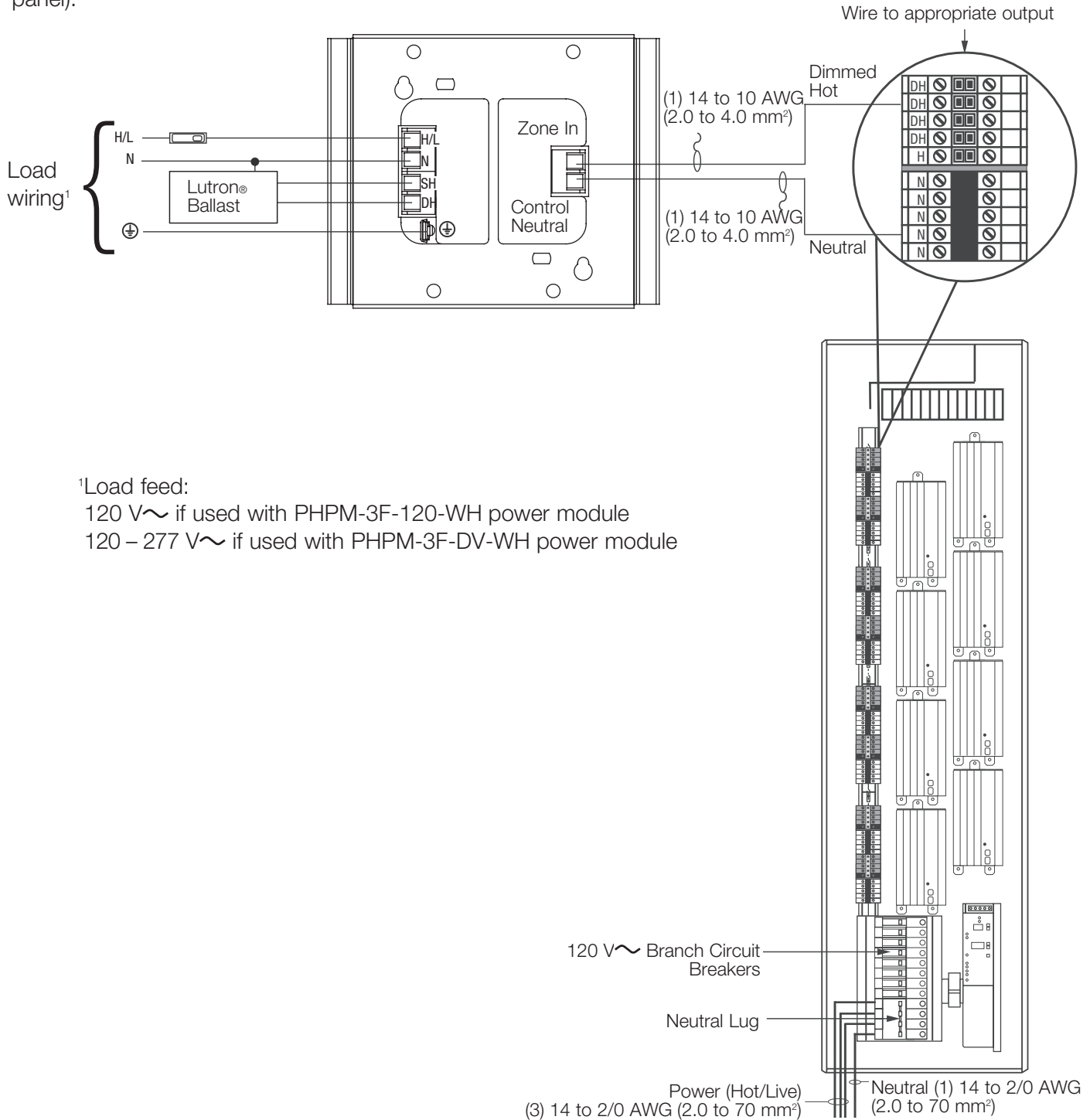


Note: Load feed: 120 V~ for PHPM-3F-120-WH;
120 – 277 V~ for PHPM-3F-DV-WH

Job Name:	Model Numbers:
Job Number:	

Wiring a Power Module to an LP, LCP, GP, or HomeWorks® Panel

Up to three 3-wire fluorescent power modules may be wired to an output of a 120 V~ LP or LCP panel. The load type for the output must be set as Eco-10® or Hi-lume® fluorescent load type on the panel's circuit selector (for an LP or GP panel), controller (for an LCP panel), or *HomeWorks* software (for a *HomeWorks* panel).



Job Name:	Model Numbers:
Job Number:	