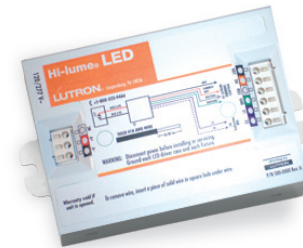


Hi-lume LED Overview

Hi-lume LED is a high-performance, constant current driver that provides energy-efficient dimming for LED lighting. With industry-leading full-range 100% to 1% dimming, *Hi-lume* LED provides the ideal functionality for any lighting application.

Features

- Continuous, flicker-free dimming from 100% to 1%.
- Standard 3-wire line-voltage phase-control technology for consistent dimming performance and compatibility with all Lutron 3-wire fluorescent dimmers.
- EcoSystem® Bus control, compatible with all Lutron *EcoSystem*, GRAFIK Eye® QSE and Quantum® systems.
- Turns on to any dimmed level without flashing to full brightness.
- Low harmonic distortion throughout the entire dimming range maintains power quality.
- Protected from miswires of any input power to control lead, or from lamp leads to each other and/or ground.
- A rated lifetime of 50,000 hours.
- Instant light output at any level when turned on.
- UL recognized - for United States and Canada.
- For approved fixtures please go to:
www.lutron.com/HiLumeLED/fixtures



Hi-lume LED, case type A

3.00 in (76 mm) W x 1.00 in (25 mm) H x
4.90 in (124 mm) L

<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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Specifications

Performance

- Dimming Range: 100% to 1% measured relative light output (RLO)
- Relative Humidity: maximum 90% non-condensing
- Operating Voltage: 120/277 V~ at 50/60 Hz
- Power Factor: greater than .90 at 25 W
- Total Harmonic Distortion (THD): less than 20% at 25 W
- Inrush Current < 2 A
- Sound Rating: Inaudible in a 24 dB ambient
- A rated lifetime of 50,000 hours - maximum case temperature: 73 °C

Standards

- Class P thermally protected
- Meets FCC Part 15 Non-Consumer requirements for EMI/RFI emissions in a typical grounded fixture
- Manufacturing facilities employ ESD reduction practices that comply with the requirements of ANSI/ESD S20.20
- Lutron Quality Systems registered to ISO 9001.2000
- UL 8750 recognized
- cUL recognized for use in Canada
- Class 2 output

Driver Wiring & Mounting

- Driver is grounded by a mounting screw or by terminal connection to the grounded fixture
- Terminal blocks on the driver accept one 18 AWG or 16 AWG solid wire per terminal
- Fixture must be grounded in accordance with local and national electrical codes

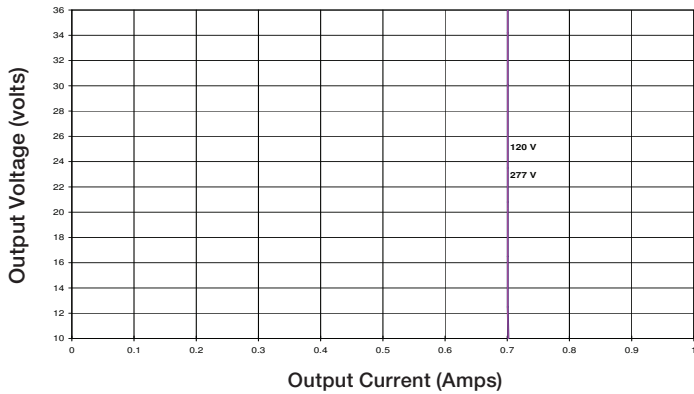
<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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0.70 Amp Driver L3D25070AUNV1S*

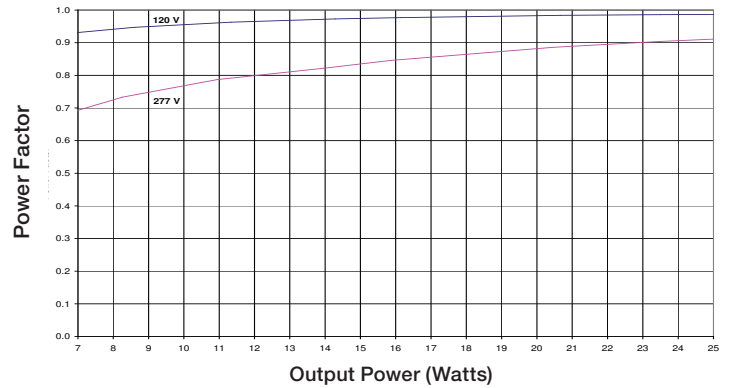
Electrical Ratings (Typical)**

Model	Input Line Voltage	Input Line Current	Input Frequency	Output Voltage	Output Current	Output Power	Class 2
L3D25070AUNV1S	120/277 V~	0.27/0.13 A	50/60 Hz	10-36 V	0.70 A ± 5%	7-25 W	Yes

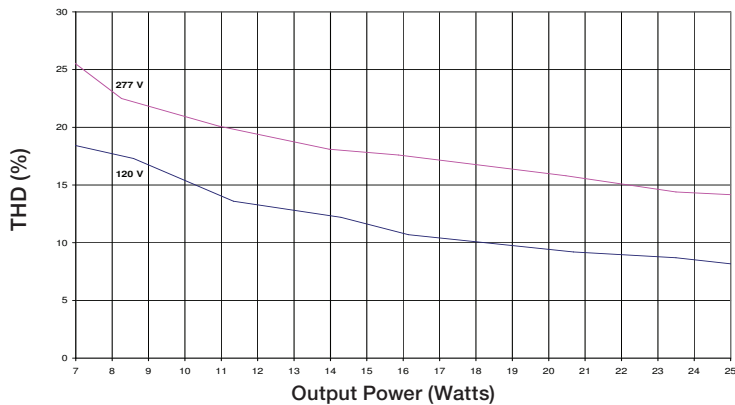
Output Voltage vs. Output Current



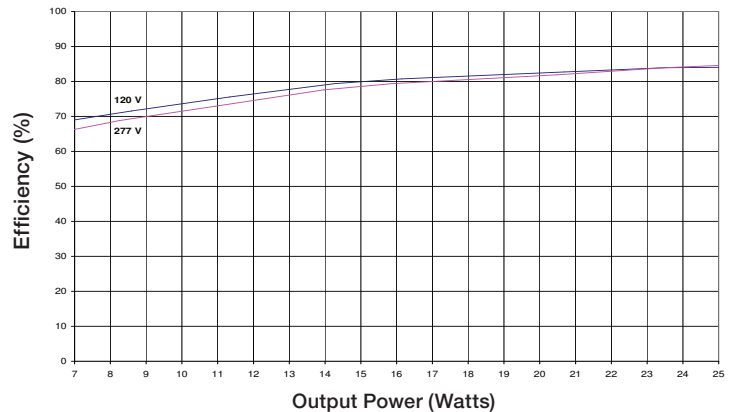
Power Factor vs. Output Power



THD vs. Output Power



Efficiency vs. Output Power



* The "S" at the end of the ballast number indicates a studded option. Remove the "S" for a non-studded driver.

** At full light output.

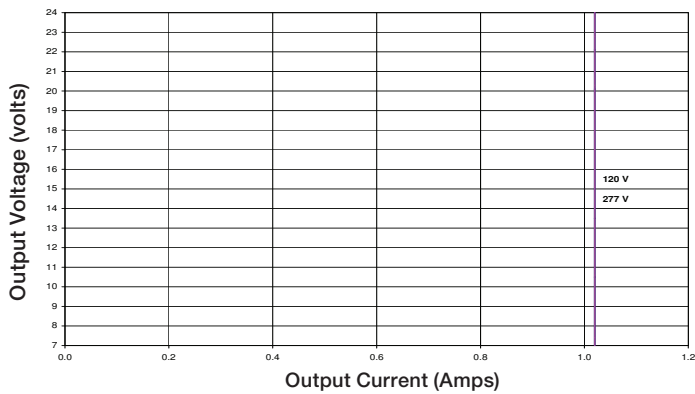
Job Name:	Model Numbers:
Job Number:	

1.05 Amp Driver L3D25105AUNV1S*

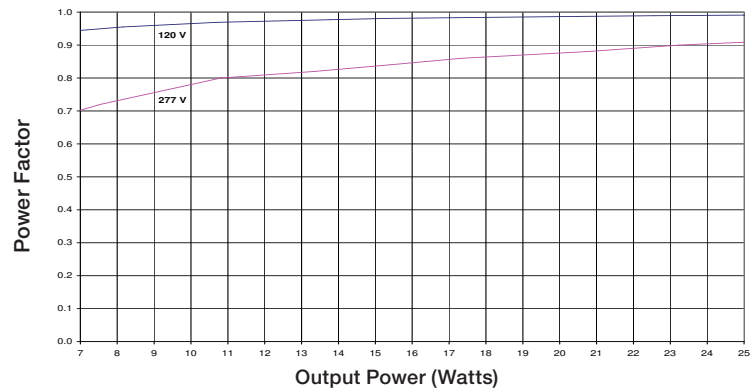
Electrical Ratings (Typical)**

Model	Input Line Voltage	Input Line Current	Input Frequency	Output Voltage	Output Current	Output Power	Class 2
L3D25105AUNV1S	120/277 V~	0.27/0.13 A	50/60 Hz	7-24 V	1.05 A ± 5%	7-25 W	Yes

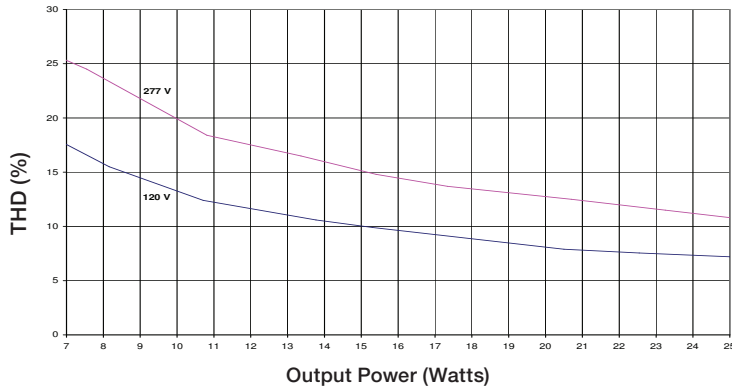
Output Voltage vs. Output Current



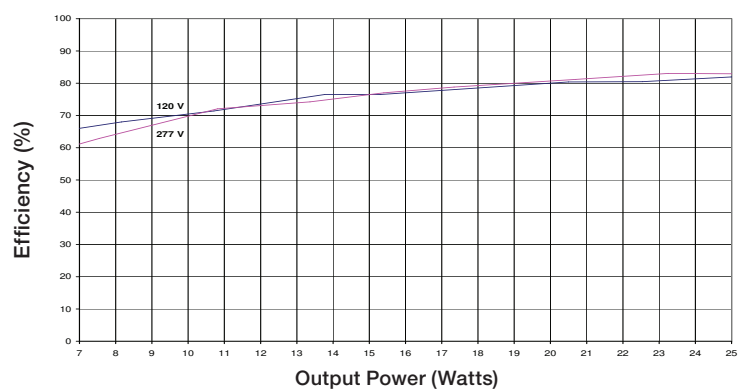
Power Factor vs. Output Power



THD vs. Output Power



Efficiency vs. Output Power



* The "S" at the end of the ballast number indicates a studded option. Remove the "S" for a non-studded driver.

** At full light output.

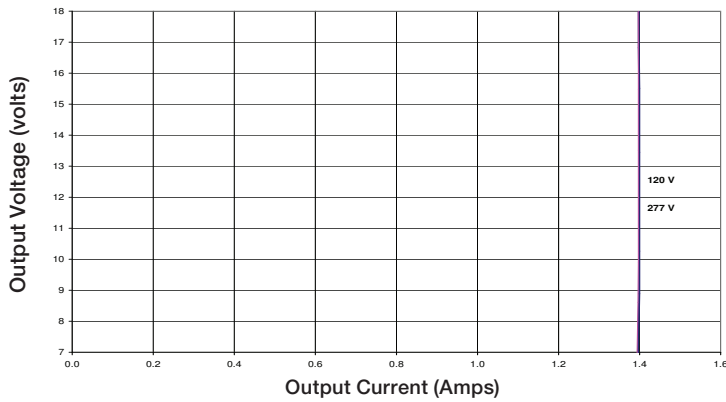
Job Name:	Model Numbers:
Job Number:	

1.40 Amp Driver L3D25140AUNV1S*

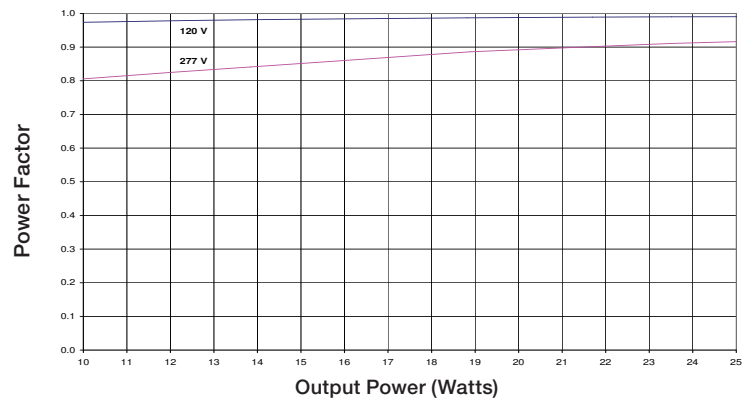
Electrical Ratings (Typical)**

Model	Input Line Voltage	Input Line Current	Input Frequency	Output Voltage	Output Current	Output Power	Class 2
L3D25140AUNV1S	120/277 V~	0.27/0.13 A	50/60 Hz	7-18 V	1.40 A ± 5%	10-25 W	Yes

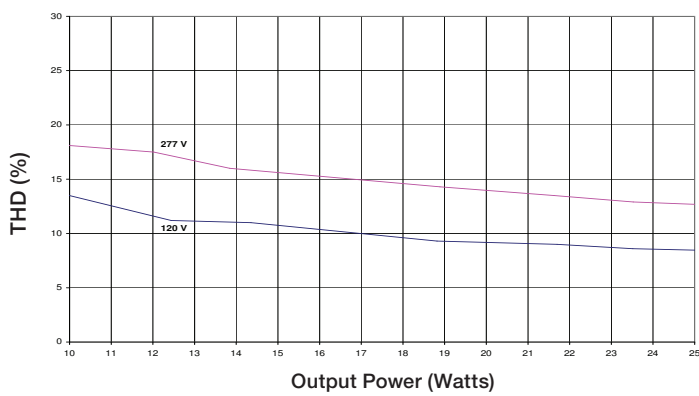
Output Voltage vs. Output Current



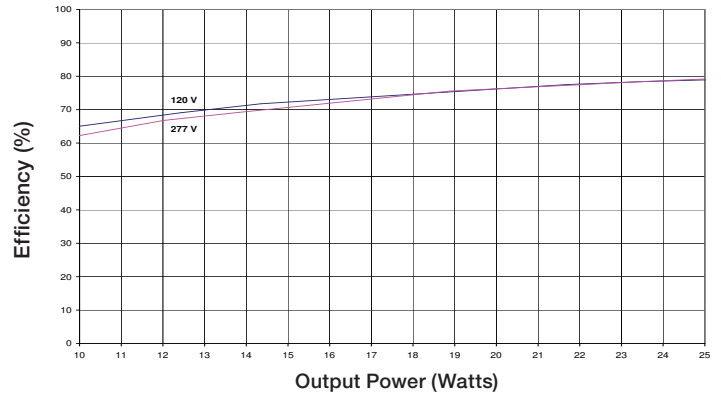
Power Factor vs. Output Power



THD vs. Output Power



Efficiency vs. Output Power



* The "S" at the end of the ballast number indicates a studded option. Remove the "S" for a non-studded driver.

** At full light output.

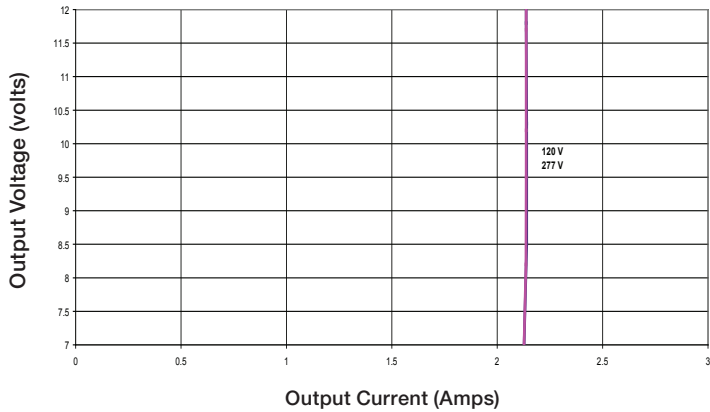
Job Name:	Model Numbers:
Job Number:	

2.10 Amp Driver L3D25210AUNV1S*

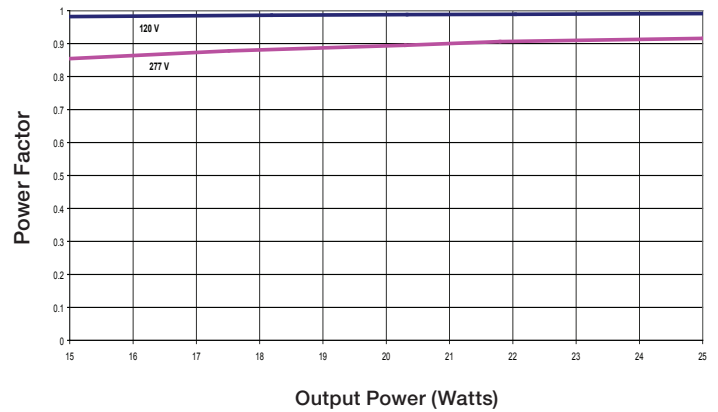
Electrical Ratings (Typical)**

Model	Input Line Voltage	Input Line Current	Input Frequency	Output Voltage	Output Current	Output Power	Class 2
L3D25210AUNV1S	120/277 V~	0.27/0.13 A	50/60 Hz	7-12 V	2.10 A ± 5%	15-25 W	Yes

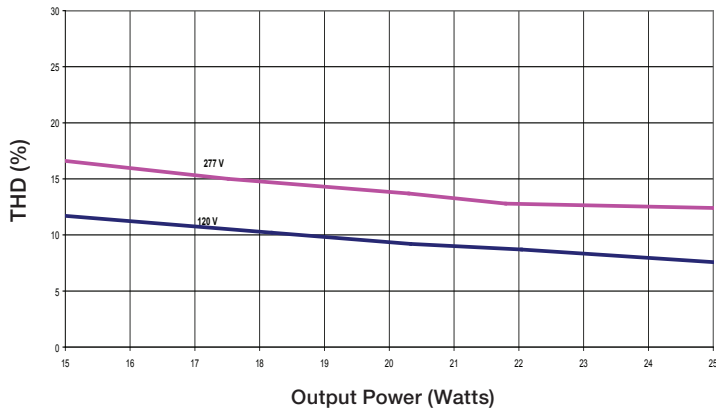
Output Voltage vs. Output Current



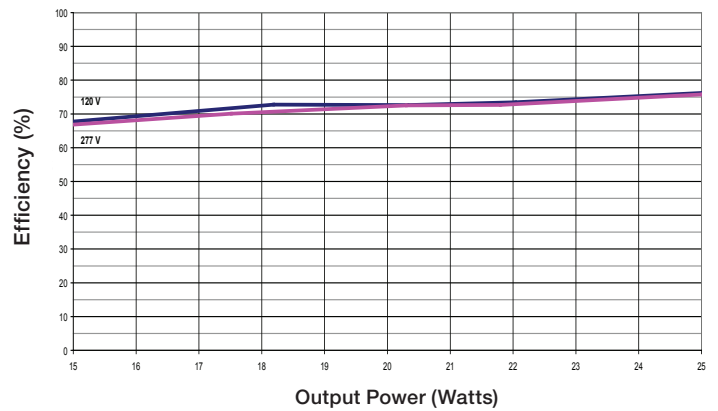
Power Factor vs. Output Power



THD vs. Output Power



Efficiency vs. Output Power

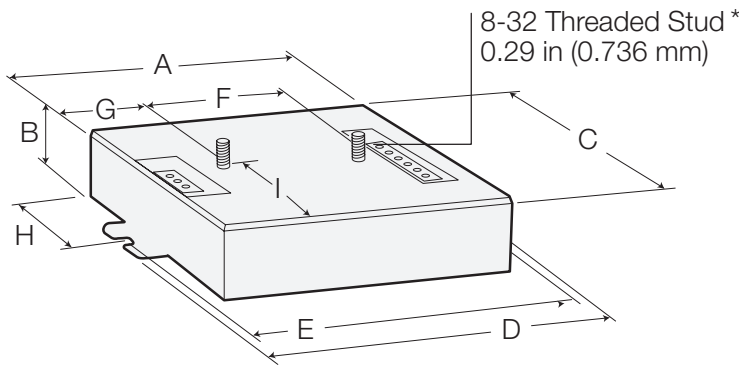


* The "S" at the end of the ballast number indicates a studded option. Remove the "S" for a non-studded driver.

** At full light output.

Job Name:	Model Numbers:
Job Number:	

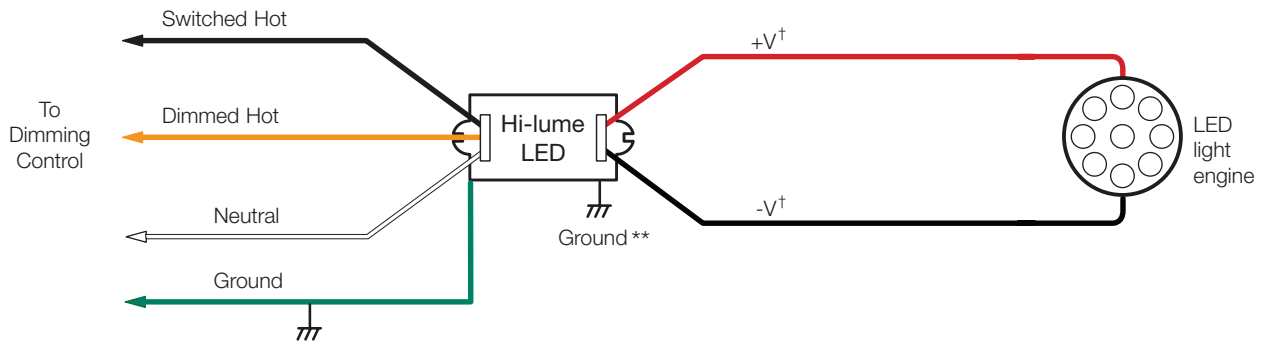
Case Dimensions



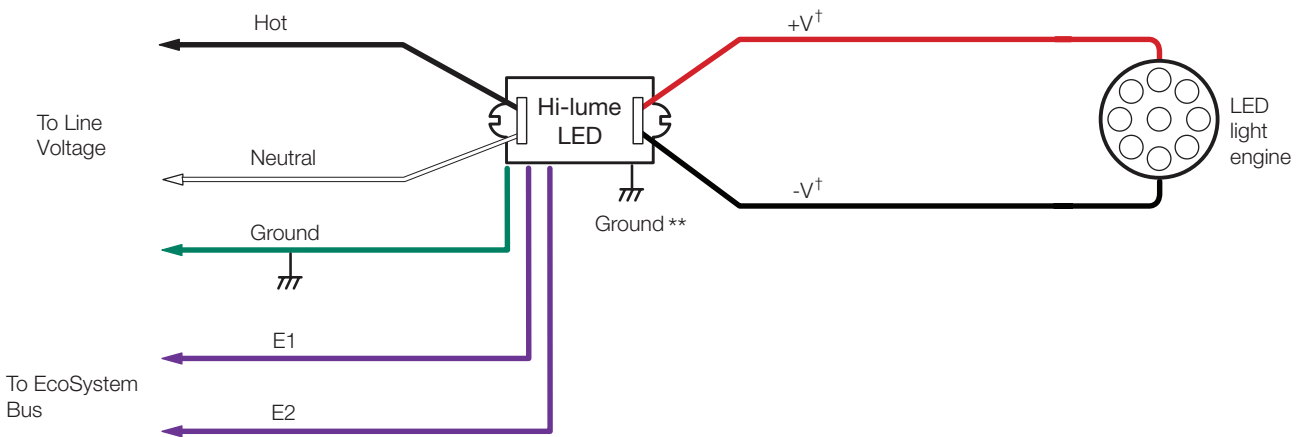
A	4.20 in (107 mm)
B	1.00 in (25 mm)
C	3.00 in (76 mm)
D	4.90 in (124 mm)
E	4.60 in (117 mm)
	(mounting centers)
F	2.00 in (51 mm)
G	1.08 in (27 mm)
H	1.60 in (41 mm)
I	1.39 in (35 mm)

* The “S” at the end of the ballast model number indicates a studded option. Remove the “S” for a non-studded driver.

Wiring Diagram for 3-Wire Dimming



Wiring Diagram for EcoSystem® Digital Control



** Fixture must be grounded in accordance with local and national electrical codes.

† Maximum lamp-to-driver wire length is 3 ft (1 m).

Job Name:	Model Numbers:
Job Number:	

Hi-lume LED 3-Wire LED Dimmer Wiring Diagram

Hi-lume LED can be controlled with Lutron fluorescent analog controls, including:

- Ariadni®
- Diva®
- GRAFIK Eye®
- GRAFIK Eye® QS
- GRAFIK 5000™
- GRAFIK 6000®
- GRAFIK 7000™
- Lyneo LX™
- Maestro®
- Nova®
- Nova T☆®
- Skylark®
- Vareo®
- Vierti®

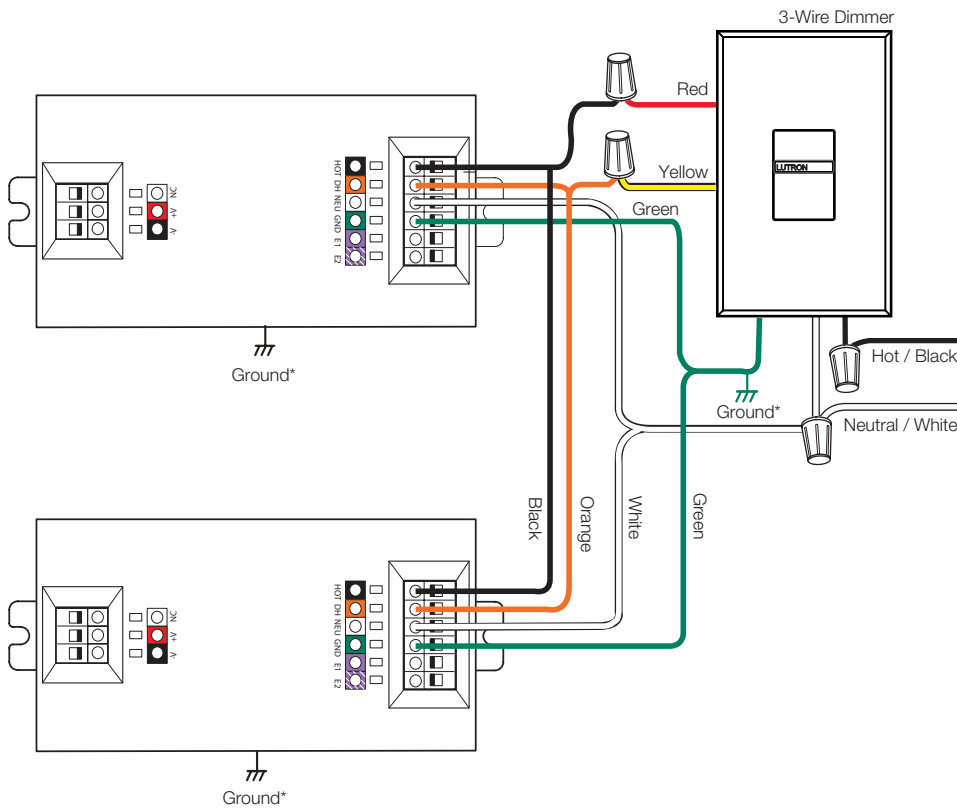
3-wire control wiring

- Make sure that the supply breaker to Hi-lume LED Driver and dimmer is OFF when wiring.
- Wire as shown

Line input:	Connects to:
Hot	Dimmer Black Wire
Neutral	Dimmer White Wire

Dimmer wire:	Connects to:
Yellow	Driver Orange (DH)
Red	Driver Black (HOT)
White	Driver White (NEU)
Green	Earth Ground and Driver Ground

Hi-lume LED driver terminals accept one 18 AWG or 16 AWG solid wire per terminal.



* Fixture must be grounded in accordance with local and national electrical codes.

Job Name:	Model Numbers:
Job Number:	

Hi-lume LED EcoSystem® Wiring Diagram

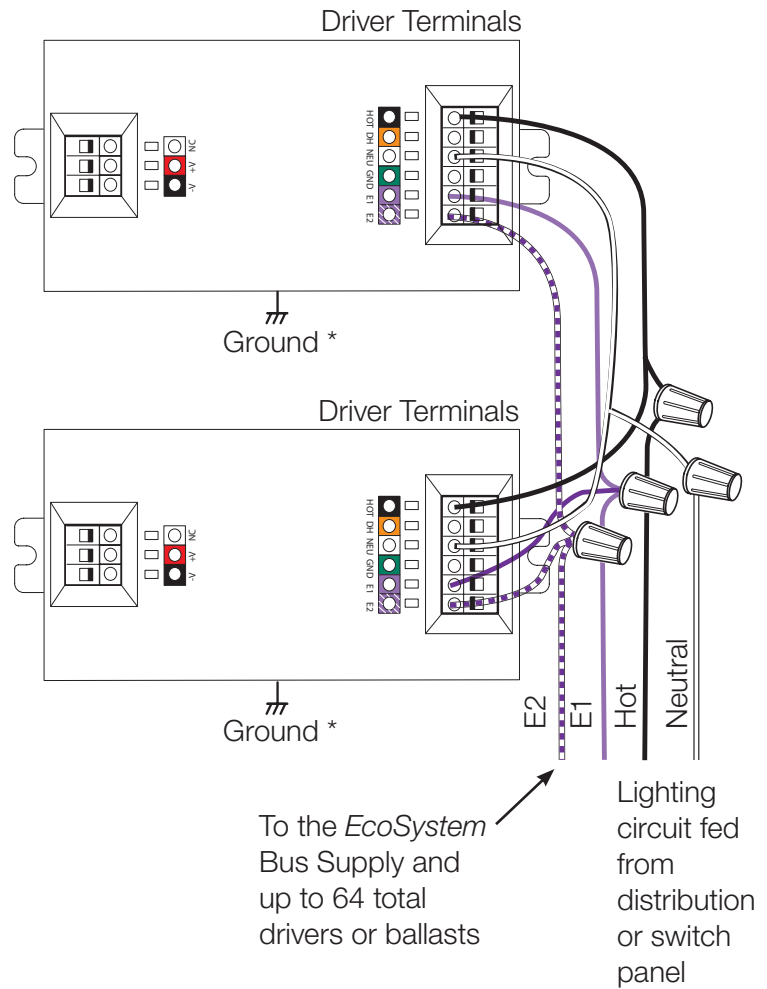
Hi-lume LED can be controlled digitally as part of an EcoSystem®, GRAFIK Eye® QSE and/or Quantum® system. Within these systems it is addressed and configured over the EcoSystem bus wiring (E1 and E2).

- Connect the two conductors to the two Digital Driver terminals E1 and E2 as shown.
- Sensors cannot directly connect to the Hi-lume LED driver. The Hi-lume LED driver can integrate with sensors when connected to EcoSystem ballasts and EcoSystem power modules.
- Make sure that the supply breaker to the Hi-lume LED Driver and EcoSystem Bus Supply is OFF when wiring.
- E1 and E2 (EcoSystem bus wires) are polarity insensitive and can be wired in any topology.
- An EcoSystem Bus Supply provides power for the EcoSystem bus and supports system programming.
- The EcoSystem bus may be wired Class 1 or Class 2. Consult applicable electrical codes for proper wiring practices.

Note: EcoSystem Bus length is limited by the wire gauge used for E1 and E2 as follows:

Wire Gauge	Bus Length (max)
12 AWG	2200 ft (670 m)
14 AWG	1400 ft (427 m)
16 AWG	900 ft (274 m)

The Hi-lume LED driver terminals and EcoSystem Bus terminals accept one 18 AWG or 16 AWG solid wire per terminal.



* Fixture must be grounded in accordance with local and national electrical codes.

Job Name:	Model Numbers:
Job Number:	

**ATTENTION
ELECTRICIANS
AND CONTRACTORS**

Driver Leads

Lead lengths from driver to LED light engine must not exceed 3 ft (1 m).

Driver Operating Temperature

Driver case temperature must not exceed 73 °C at any point.

Wiring and Grounding

Driver and lighting fixture must be grounded. Drivers must be installed per national and local electrical codes.

**ATTENTION
FACILITIES MANAGERS**

SERVICE

Replacement Parts

Use replacement parts with exact Lutron model numbers. Consult Lutron if you have any questions.

Further Information

For further information, please visit us at www.lutron.com/hilumeLED or contact our 24-hour Technical Support Center at 1-800-523-9466.

Job Name: Job Number:	Model Numbers:
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