

**PROJECT:**

**TYPE:**

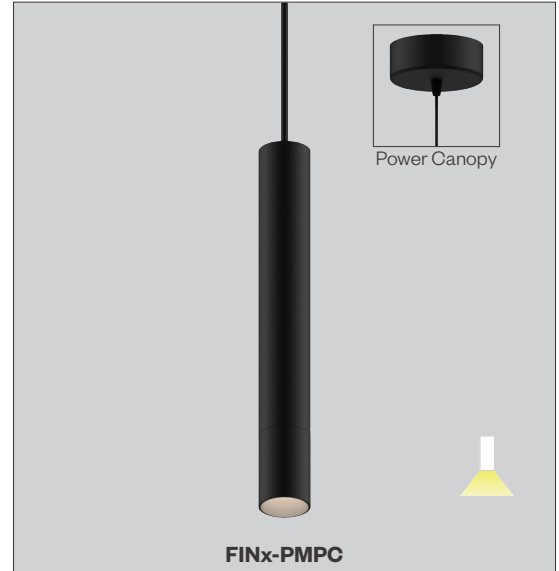
**Features**

The FINCH family of cylinders with a 1" aperture, features exceptional output, flexibility, and a broad range of configurations to provide discreet, quality illumination, while integrating into the architecture.

The FINCH pendant mount cylinder with power canopy allows for the use of an integral driver inside the canopy and is available in lengths from 9" to 18," up to 1500 lm output and has a choice of beveled front door options for additional shielding or a glow lens for an extra flair. Use alone or in a composition to create a unique design.

**Product Overview**

Type: Pendant Mount, Direct  
 Wattage: 6W, 8W, 10W, 12W, 15W, 17W, 20W  
 Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K  
 CRI: 80+ or 90+ typ.  
 Dimming: 0-10V, DALI, TRIAC/ELV, Hi-lume®



**Certifications**



**Fixture Summary**

**Performance Data**

Watts	Delivered Lumens	LPW	Color Temp	CRI
6	643	102.1	3000K	80+
8	787	93.7	3000K	80+
10	927	88.3	3000K	80+
12	1065	83.9	3000K	80+
15	1200	79.9	3000K	80+
17	1331	76.9	3000K	80+
20	1459	73.9	3000K	80+

Data is based on 20W, flood optic, standard bevel, 3000K, 80+ 120V IES file available on website.  
 Consult ordering information and data for other wattages & beam spreads.

**Electrical Data**

Voltage	6W		8W		10W		12W		15W		17W		20W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088	12.7	0.107	14.9	0.125	17.3	0.144	19.7	0.164
277V	6.7	0.034	8.6	0.038	10.7	0.044	12.8	0.051	15	0.058	17.3	0.065	19.6	0.073

Electronic constant current LED driver.

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**1" Pendant Mount Cylinder Ordering Information**

1	2	3	4	5	6	7	8	9	10	11
<b>1 Model</b>	<b>2 Wattage</b>	<b>3 Color Temp and CRI</b>		<b>4 Beam Spread</b>						
FIN9-PMPC 9"	6 6W (643 lm)	80+ CRI	90+ CRI	SP spot, 15°						
FIN12-PMPC 12"	8 8W (787 lm)	30 3000K, 80+	249 2400K, 90+	FL flood, 28°						
FIN18-PMPC 18"	10 10W (927 lm)	35 3500K, 80+	279 2700K, 90+	WF wide flood, 35°						
	12 12W (1065 lm)	40 4000K, 80+	309 3000K, 90+	VWF very wide flood, 50°						
	15 15W (1200 lm)		359 3500K, 90+							
	17 17W (1331 lm)		409 4000K, 90+							
	20 20W (1459 lm)									
<b>5 Body Finish</b>	<b>6 Bevel Finish</b>		<b>7 Door Style</b>		<b>8 Mounting</b>					
WT white texture ○	MW matte white ○	SB standard bevel (1/4" recess)		PC power canopy (2" deep)						
BT black texture ●	MB matte black ●	DB deep bevel (5/8" recess)		PCDC power conduit canopy (3-1/2" deep)						
SLV matte silver ○	SLV matte silver ○	GLOW frosted glow lens (1/2" drop)								
BRZ bronze ●	BRZ bronze ●									
DBZ dark bronze ●	DBZ dark bronze ●									
<i>For custom RAL finish, consult factory</i>	GLD gold ●									
	<i>For custom RAL finish, consult factory. Omit from nomenclature when ordering GLOW door style.</i>									
<b>9 Suspension</b>	<b>10 Driver</b>		<b>11 Options/Accessories</b>							
<u>Cord</u> (cord is field cuttable)	<u>Stem</u> (stem is field cuttable)	O-10V 0-10V dimming, 1%, 120/277VAC		SOL solite beam softening lens						
C4 cord, 4'	RS3 rigid stem, 3'	DALI DALI dimming, 1%, 120/277VAC		HEX hexcell louver						
C8 cord, 8'		LE/TE TRIAC/ELV dimming, 5%, 120/277VAC		LS linear spread lens						
<i>Cord suspension will be black for bronze or dark bronze finishes</i>		HILUME-P-ECO - Lutron Hi-lume EcoSystem Premier 0.1% dim with soft on & fade to black, 120/277VAC (consult factory for availability)								

<b>PROJECT:</b>	<b>TYPE:</b>
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**Specifications**

**Application**  
Retail, commercial and hospitality ambient/task lighting

**Construction**  
Extruded aluminum precision machined body, door & heatsink

**Optical**  
TIR optics  
Beam Spreads: Spot 15°, Flood 28°, Wide Flood 35°, Very Wide Flood 50°  
Linear Spread Lens (**LS**) recommended for use with Spot beam spread for maximum linear effect.

**LED**  
Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K  
CRI: 80+ & 90+ typ.  
R9 Values: 11 (83 CRI), 55 (92 CRI)  
Binning: 3 MacAdam (SDCM)  
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

**Electrical**  
*This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.*

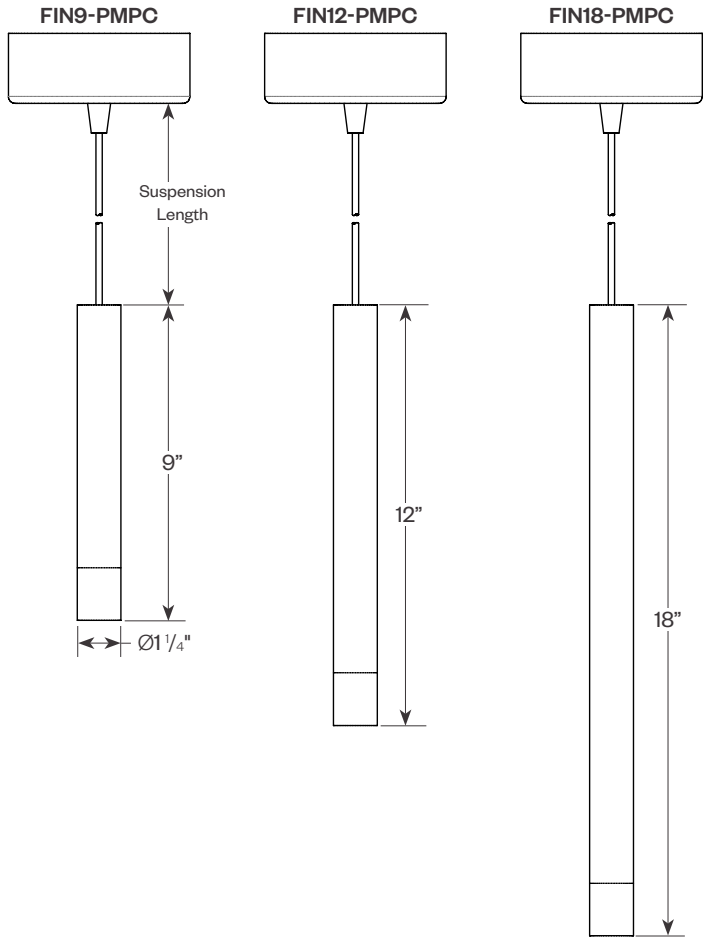
**Finish**  
Powder coat paint  
*Consult factory for custom finishes*

**Mounting**  
Pendant mount

**Certifications**  
ETL listed  
Indoor use only  
Damp location

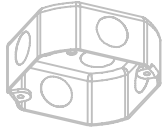
**Warranty**  
5 year limited warranty

**Product Details**



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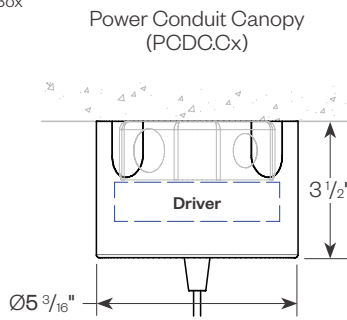
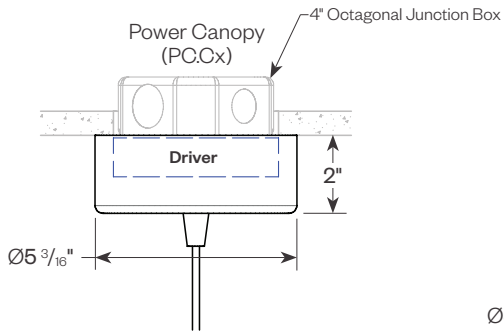
**Junction Box Mounting Requirement**



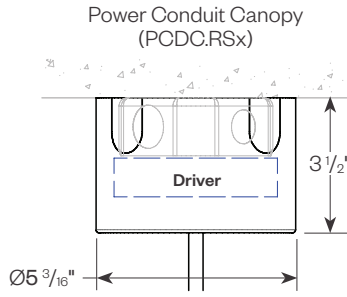
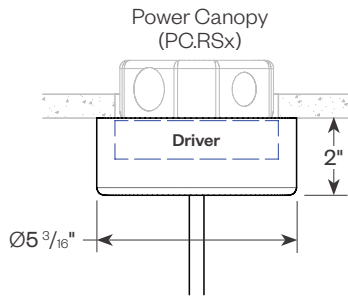
All Mounts Require 4" Octagonal Junction Box *(by others)*

**Mounting/Suspension Options**

**Cord Suspension**



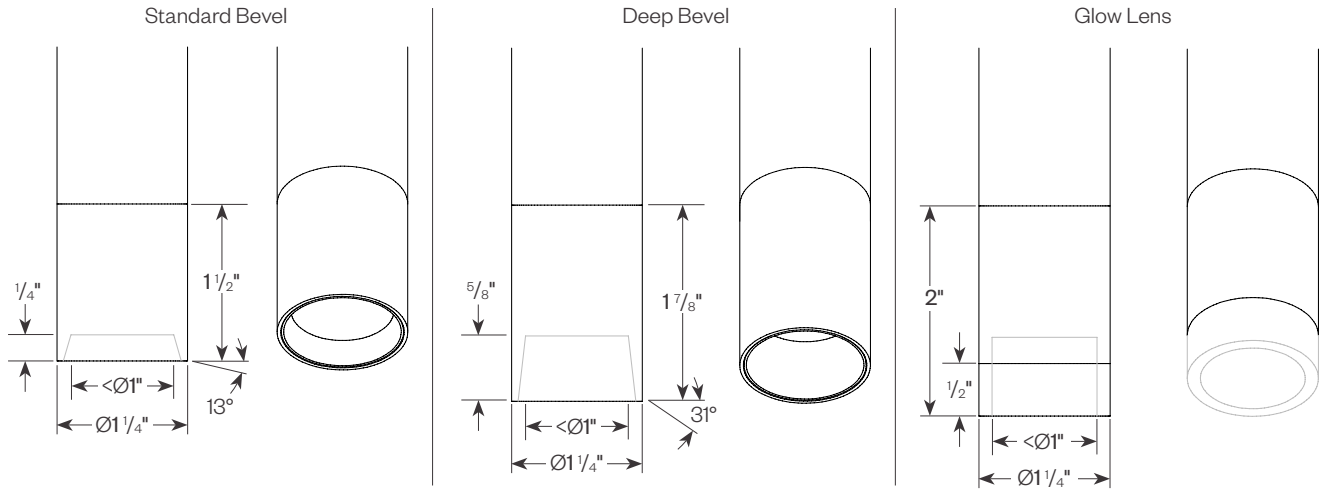
**Rigid Stem Suspension**



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**Door Styles**



**Finish Options**

Powder coat paint.  
Consult factory for custom finishes.



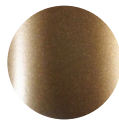
Matte Black



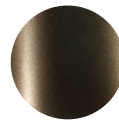
Matte White



Matte Silver



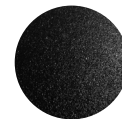
Bronze



Dark Bronze



White Texture



Black Texture



Gold

Available for Bevel Finish only

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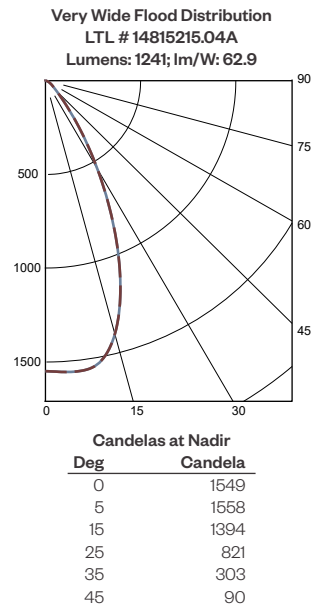
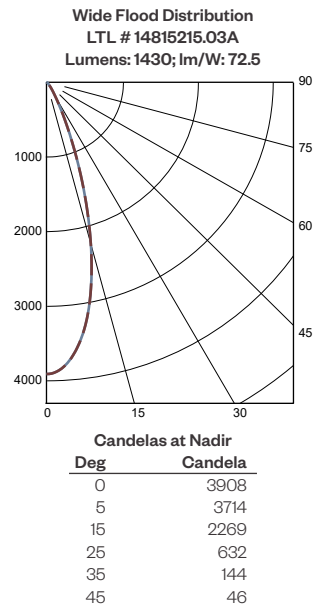
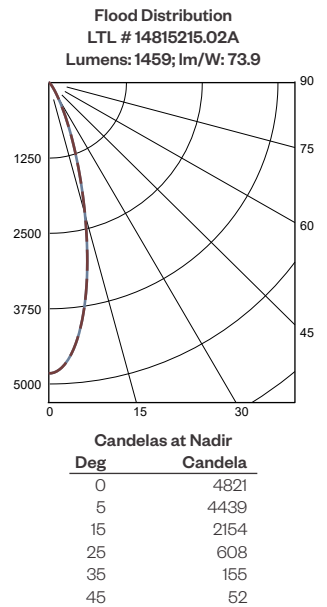
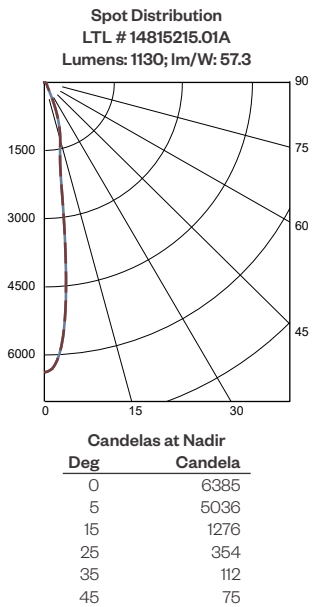
**Performance Data**

**Multiplying Factors:** (Multiplying Factor is based on 20W, 3000K, 80+, 120V IES file on website)

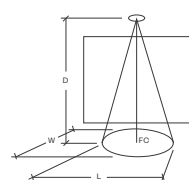
Wattage:	6W	8W	10W	12W	15W	17W	20W
Factor:	0.44	0.54	0.64	0.73	0.82	0.91	1.0

CCT:	3000K, 80+	3500K, 80+	4000K, 80+	2400K, 90+	2700K, 90+	3000K, 90+	3500K, 90+	4000K, 90+
Factor:	1.0	1.04	1.06	0.76	0.83	0.88	0.92	0.93

**20W, Standard Bevel, 3000K, 80+**




**Application Data**



**Notes and Definitions:**  
 Beam spread is to 50% center beam candlepower (CBCP).  
**D**=Distance to floor or wall.  
**FC**=Footcandles on floor or wall at center beam aiming location.  
**L**=Effective Visual Beam length in feet (50% of maximum footcandle level).  
**W**=Effective Visual Beam width in feet (50% of maximum footcandle level).

**Spot**


0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	158	1.9	1.9
7.5'	91	2.5	2.5
10.0'	57	3.0	3.0
12.5'	38	3.5	3.5

**Flood**


0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	178	2.6	2.6
7.5'	85	3.6	3.6
10.0'	49	4.7	4.7
12.5'	31	5.8	5.8

**Wide Flood**


0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	138	3.0	3.0
7.5'	66	4.3	4.3
10.0'	38	5.6	5.6
12.5'	25	7.0	7.0

**Very Wide Flood**

0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

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### Dimming Compatibility

Amerlux® Finch fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

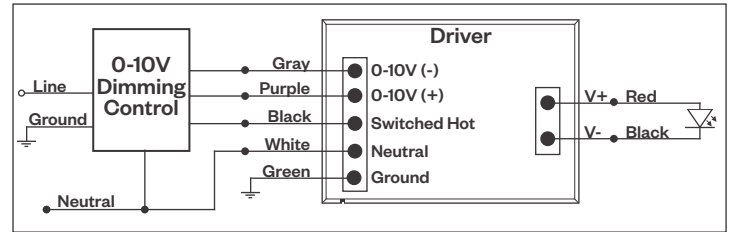
#### 0-10V DIMMING

Integrates into a variety of building management and daylighting controls

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

#### 0-10V Wiring Diagram



**Compatible Dimmers\*:**

**Wall Box**

Lutron "Diva" - DVSTV | Leviton Renoir II 0-10V

**Central System**

Lutron Grafik Eye with GRX-TVI Interface

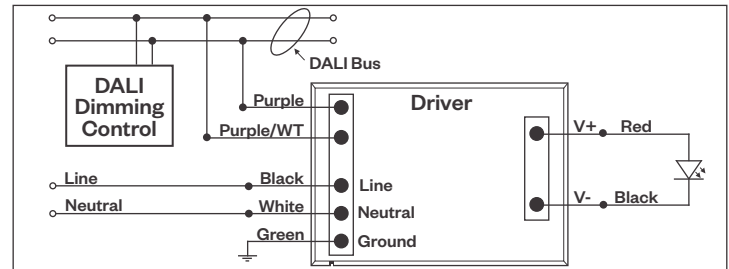
#### DALI DIMMING

Digital control protocol allows individual fixture control

**Notes:**

- 120VAC - 277VAC\*
- Dims down to 1% light output in most cases

#### DALI Wiring Diagram



**Compatible Dimmers\*:**

**Wall Box (3-Wire Fluorescent)**

Leviton CD250 Controller

**Central System**

Dynalite

Fifth Light

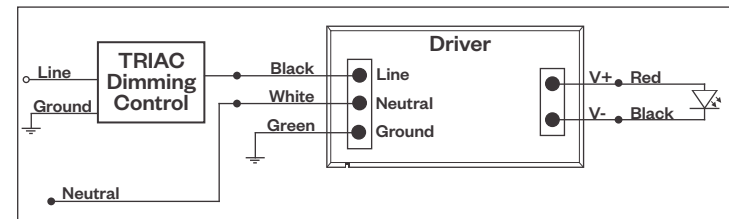
#### TRIAC (Forward Phase) DIMMING (Standard)

Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

#### TRIAC Wiring Diagram



**Compatible Dimmers\*:**

**Wall Box (TRIAC 120VAC)**

Lutron "Diva"

Lutron "Nova-T"

Lutron "Maestro"

Lutron "Skylark"

**Central System**

Lutron "GP" Panel

Lutron Grafik Eye QS

**Notes:**

\* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

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**Dimming Compatibility** *(continued)*

Amerlux® Finch fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

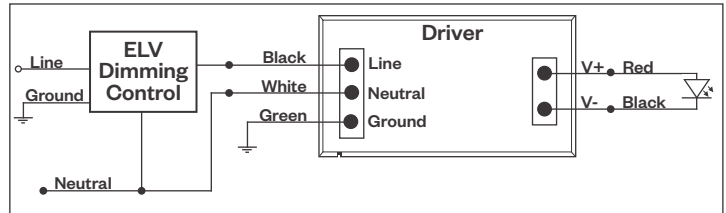
**ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)**

Utilizes specialized "ELV" dimmers.

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

**ELV Wiring Diagram**



Compatible Dimmers†:		
Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

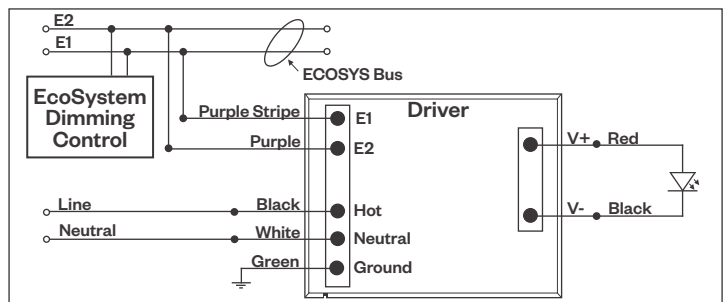
**LUTRON LDE1 DIMMING**

Integrates into Lutron EcoSystem building management

**Notes:**

- 120VAC or 277VAC\*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

**LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram**



Compatible Dimmers†:	
Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

**Notes:**  
 \* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.  
 † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.