

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. It is available in a fixed downlight, adjustable (*with 50° tilt*), wall mount and even exterior ground mount options. Whether installed on ceilings, walls/mullions or the ground, the FINCH family blends seamlessly into its surroundings.

The FINCH wall mount cylinder, 6" in length, offers up to 1000 lm output and has a choice of beveled front door options for additional shielding for the direct portion and a flush lens for the indirect portion, to prevent dust accumulation.

Product Overview

Type: Wall Mount, Direct or Indirect
 Wattage: 6W, 8W, 10W
 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+

Data is based on flood optic, standard bevel, 3000K, 80+ 120V IES file available on website..

Electrical Data

	6W		8W		10W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088
277V	6.7	0.034	8.6	0.038	10.7	0.044

Electronic constant current LED driver.

PROJECT:
TYPE:












To Order, please specify both the light fixture and remote driver.

Step 1: Fixture Example: FIN6-WD.10.309.WF.BT.GLD.DB.RC.SOL

Step 2: Remote Driver Example: FINPW.10.0-10V.MP

Fixture Example: FIN6-WI.10.309.WF.BT.SBX.RC.SOL

STEP 1: 1" Wall Mount Direct or Indirect Ordering Information

1	2	3	4	5	6	7	8	9
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spread	5 Body Finish	6 Bevel Finish	7 Door Style	8 Mounting	9 Options/Accessories
FIN6-WD 6" wall mount, direct FIN6-WI 6" wall mount, indirect	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 lm)	30 3000K, 80+ 35 3500K, 80+ 40 4000K, 80+ 249 2400K, 90+ 279 2700K, 90+ 309 3000K, 90+ 359 3500K, 90+ 409 4000K, 90+	SP spot, 15° FL flood, 28° WF wide flood, 35° VWF very wide flood, 50°	WT white texture  BT black texture  SLV matte silver  BRZ bronze  DBZ dark bronze  <i>For custom RAL finish, consult factory</i>	Direct MW matte white  MB matte black  SLV matte silver  BRZ bronze  DBZ dark bronze  GLD gold  <i>For custom RAL finish, consult factory. Omit from nomenclature when ordering GLOW door style.</i> Indirect <i>Finish to match body finish, omit from nomenclature.</i>	Direct SB standard bevel (1/4" recess) DB deep bevel (5/8" recess) GLOW frosted glow lens (1/2" drop) Indirect SBX standard bevel with flush lens GLOW frosted glow lens (1/2" height)	MUL mullion mount (Ø2") C canopy (Ø5") RC reduced canopy (Ø3-1/2") CDC conduit canopy (Ø4-1/8")	SOL solite beam softening lens HEX hexcell louver LS linear spread lens

STEP 2: Remote Driver Ordering Information

 Amerlux offers a mounting plate (**MP**) for each remote driver with accessories for mounting in enclosure by others, or a single remote box (**RBX**) for one driver, or a single remote box (**RBX2**) that can fit two drivers. Electrical Contractor (**EC**) is responsible for adherence to all local codes.

FINPW			
1	2	3	4
1 Model	2 Wattage	3 Drivers/Controls	4 Driver Enclosure
FINPW	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 lm)	0-10V 0-10V dimming, 1% dim, 120/277VAC DALI DALI dimming, 1% dim, 120/277VAC LE/TE TRIAC/ELV dimming, 5% dim, 120/277VAC HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/ Fade-to-Black, 120/277VAC (10W min)	MP mounting plate (1 driver) RBX remote box (1 driver) RBX2 remote box (2 drivers) Note: One wattage & dimming protocol per box.

For enclosure drawings & wiring schematics, see pages 6-8.

PROJECT:
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Specifications

Application

Retail, commercial and hospitality wall mounted accent 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°

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

Wall mount

Certifications

CSA tested to UL standards

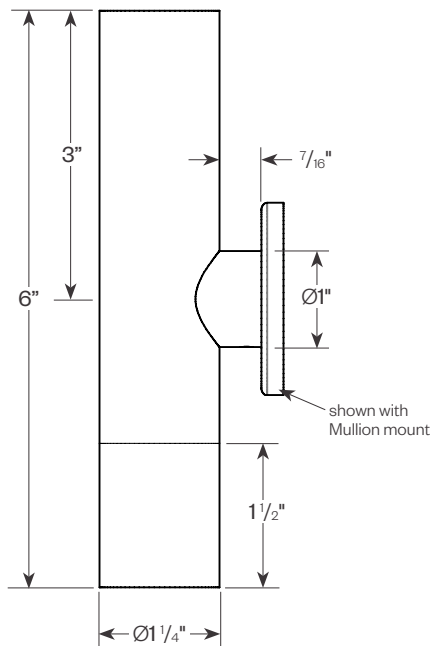
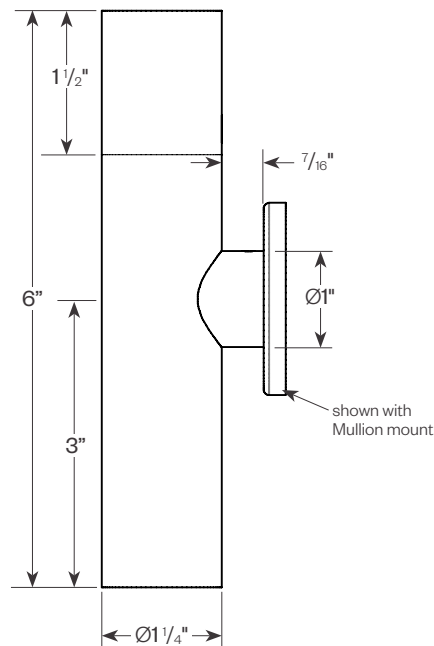
Indoor use only

Damp location

Warranty

5 year limited warranty

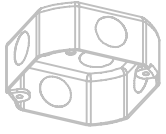
Product Details

FIN6-WD

FIN6-WI


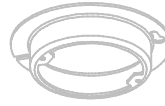
PROJECT:

TYPE:

Junction Box Mounting Requirements



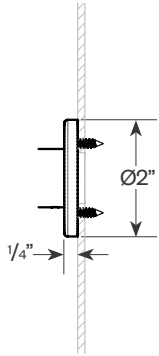
All Mounts Require 4" Octagonal Junction Box *(by others)*



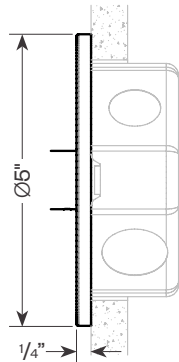
Reduced Canopy (**RC**) Mounts also Require Raised Cover *(by others)* for 4" Octagonal Junction Box

Mounting Options

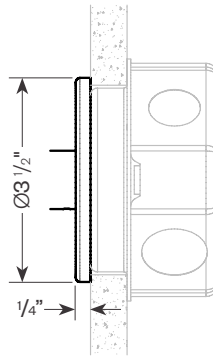
Mullion Mount



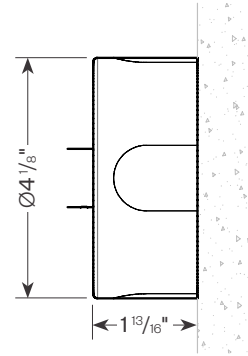
Canopy Mount



Reduced Canopy Mount



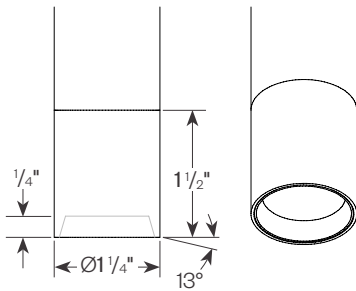
Conduit Canopy Mount



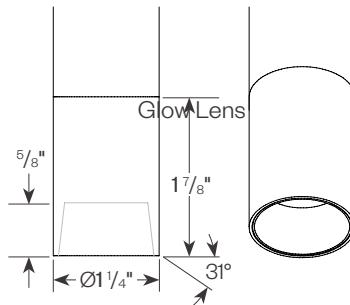
Door Styles

Direct

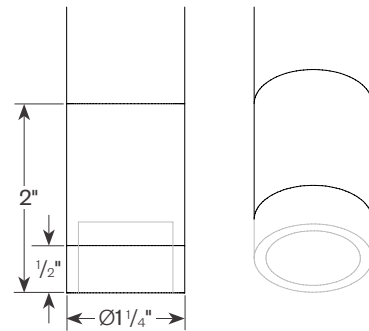
Standard Bevel (**SB**)



Deep Bevel (**DB**)

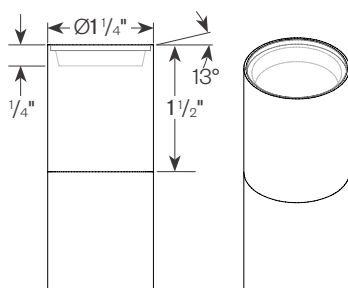


Glow Lens

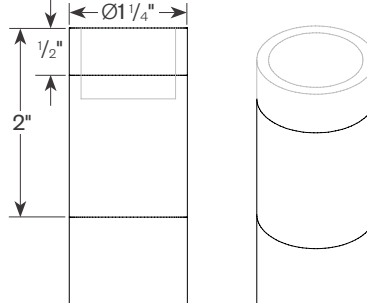


Indirect

Standard Bevel with flush lens (**SBX**)



Glow Lens



Finish Options

Powder coat paint. Consult factory for custom finishes.



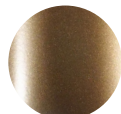
Matte Black



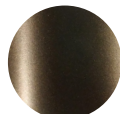
Matte White



Matte Silver



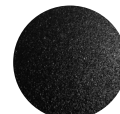
Bronze



Dark Bronze



White Texture



Black Texture



Gold
*Available for Bevel
Finish only*

PROJECT:

TYPE:

Performance Data

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

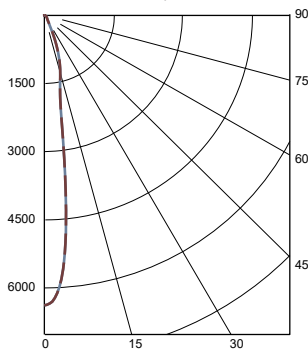
Wattage:	6W	8W	10W	20W*
Factor:	0.44	0.54	0.64	1.0

* Multiplying factors based on IES 20W tested fixture.
20W is not available for this fixture type.

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

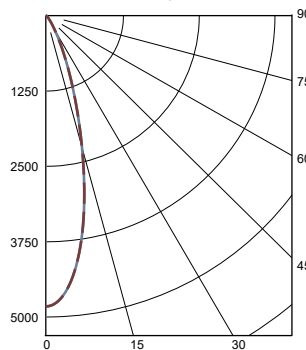
20W, Standard Bevel, 3000K, 80+

Spot Distribution
LTL # 14815215.01A
Lumens: 1130; lm/W: 57.3



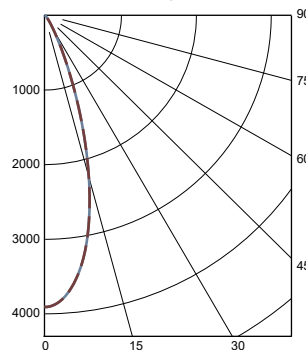
Candelas at Nadir	Deg	Candela
	0	6385
	5	5036
	15	1276
	25	354
	35	112
	45	75

Flood Distribution
LTL # 14815215.02A
Lumens: 1459; lm/W: 73.9



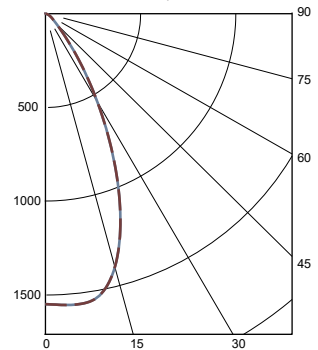
Candelas at Nadir	Deg	Candela
	0	4821
	5	4439
	15	2154
	25	608
	35	155
	45	52

Wide Flood Distribution
LTL # 14815215.03A
Lumens: 1430; lm/W: 72.5



Candelas at Nadir	Deg	Candela
	0	3908
	5	3714
	15	2269
	25	632
	35	144
	45	46

Very Wide Flood Distribution
LTL # 14815215.04A
Lumens: 1241; lm/W: 62.9



Candelas at Nadir	Deg	Candela
	0	1549
	5	1558
	15	1394
	25	821
	35	303
	45	90

Application Data

Notes and Definitions:

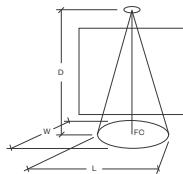
Beam spread is to 50% center beam candlepower (CBCP).

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

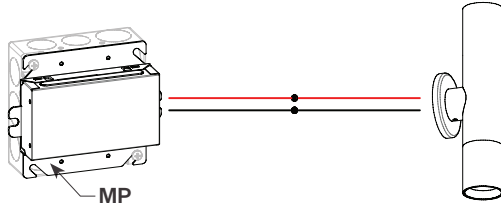
0° Aiming Angle
Horizontal
Footcandles

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

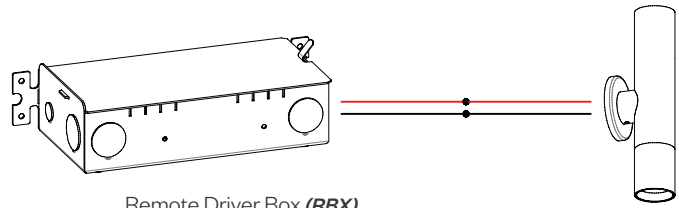
PROJECT:

TYPE:

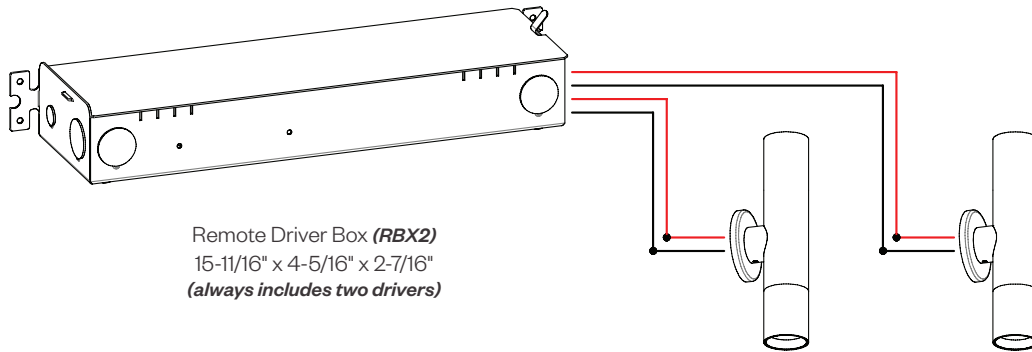
Enclosure Options for Remote Driver



Remote Driver with Mounting Plate
4" Square Junction Box (by others)



Remote Driver Box (RBX)
9-11/16" x 4-5/16" x 2-7/16"



Remote Driver Box (RBX2)
15-11/16" x 4-5/16" x 2-7/16"
(always includes two drivers)

Please see the example below when choosing the remote driver mounting or enclosure.

With 10 Finch Cylinders, would be: 10 FINPW-MP, or 10 FINPW-RBX1, or 5 FINPW-RBX2

Note: Maximum remote wiring distance is 100 linear feet of 18 AWG wire and 50 linear feet of 22 AWG wire.

PROJECT:

TYPE:

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 ---

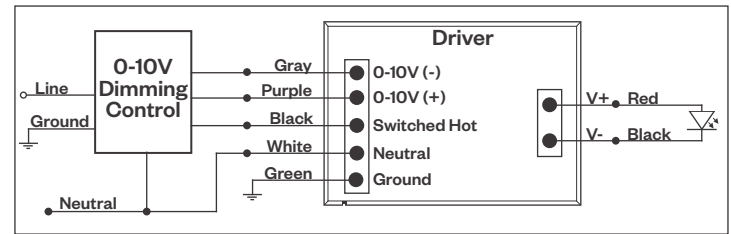
0-10V DIMMING

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

Central System

Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface
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DALI DIMMING

Digital control protocol allows individual fixture control

Notes:

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

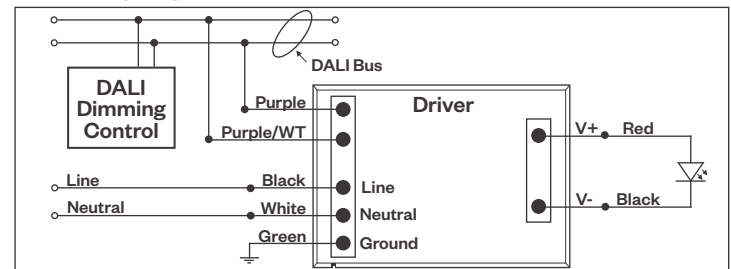
Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)

Central System

Leviton CD250 Controller	Dynalite
	Fifth Light

DALI Wiring Diagram



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

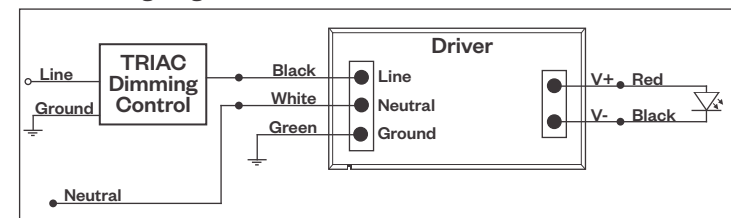
Compatible Dimmers*:

Wall Box (TRIAC 120VAC)

Central System

Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

TRIAC Wiring Diagram



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.

PROJECT:

TYPE:

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.

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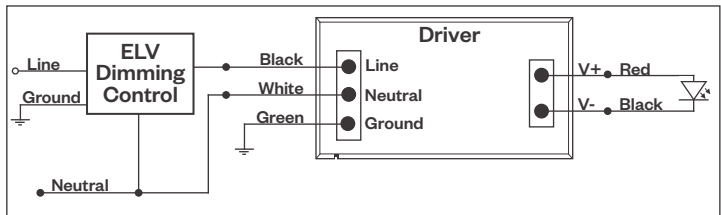
ELV - Electronic Low Voltage (*Reverse Phase*) DIMMING (Standard)

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

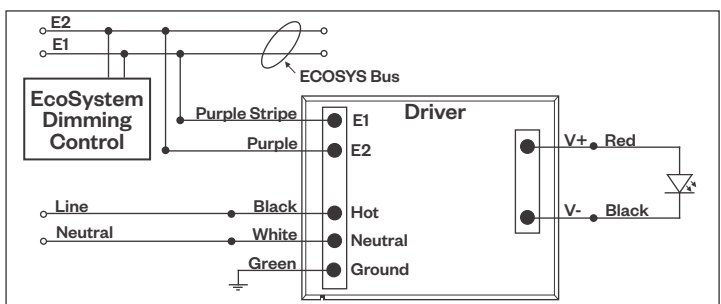
Notes:

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

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	

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



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.