

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 surface adjustable cylinder is available in lengths from 3" to 18," over a 1000 lm output and has a choice of beveled front door options for additional shielding. Maximum 50° tilt & 360° rotation for aiming flexibility. Use alone or in a composition to create a unique design.

### Product Overview

Type: Surface Mount, Adjustable  
 Wattage: 6W, 8W, 10W, 12W  
 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+

Data is based on 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	
	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
277V	6.7	0.034	8.6	0.038	10.7	0.044	12.8	0.051

Electronic constant current LED driver.

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**STEP 1: 1" Surface Mount Adjustable Ordering Information**

1	2	3	4	5	6	7	8	9
<b>1 Model</b>	<b>2 Wattage</b>	<b>3 Color Temp and CRI</b>	<b>4 Beam Spread</b>	<b>5 Body Finish</b>				
FIN3-SMA 3"	6 6W (643 lm)	30 3000K, 80+	SP spot, 15°	WT white texture 				
FIN6-SMA 6"	8 8W (787 lm)	35 3500K, 80+	FL flood, 28°	BT black texture 				
FIN9-SMA 9"	10 10W (927 lm)	40 4000K, 80+	WF wide flood, 35°	SLV matte silver 				
FIN12-SMA 12"	12 12W (1065 lm)	249 2400K, 90+	VWF very wide flood, 50°	BRZ bronze 				
FIN18-SMA 18"		279 2700K, 90+		DBZ dark bronze 				
		309 3000K, 90+		<i>For custom RAL finish, consult factory</i>				
		359 3500K, 90+		<i>consult factory</i>				
		409 4000K, 90+						
<b>6 Bevel Finish</b>		<b>7 Door Style</b>	<b>8 Mounting</b>	<b>9 Options/Accessories</b>				
MW matte white 		SB standard bevel (1/4" recess)	F flush mount	SOL solite beam softening lens				
MB matte black 		DB deep bevel (5/8" recess)	C canopy (Ø5")	HEX hexcell louver				
SLV matte silver 		GLOW frosted glow lens (1/2" drop)	RC reduced canopy (Ø3-1/2")	LS linear spread lens				
BRZ bronze 			CDC conduit canopy (Ø4-1/8")					
DBZ dark bronze 								
GLD gold 								
<i>For custom RAL finish, consult factory.</i>								
<i>Omit from nomenclature when ordering</i>								
<i>GLOW door style.</i>								

**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 for one driver (RBX), or a single remote box that can fit two drivers (RBX2). Electrical Contractor (EC) is responsible for adherence to all local codes.

FINPW			
1	2	3	4
<b>1 Model</b>	<b>2 Wattage</b>	<b>3 Drivers/Controls</b>	<b>4 Driver Enclosure</b>
FINPW	6 6W (643 lm)	O-10V 0-10V dimming, 1% dim, 120/277VAC	MP mounting plate (1 driver)
	8 8W (787 lm)	DALI DALI dimming, 1% dim, 120/277VAC	RBX remote box (1 driver)
	10 10W (927 lm)	LE/TE TRIAC/ELV dimming, 5% dim, 120/277VAC	RBX2 remote box (2 drivers)
	12 12W (1065 lm)	HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/ Fade-to-Black, 120/277VAC (10W min)	<b>Note: One wattage &amp; dimming protocol per box.</b>

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

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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

Surface mount

#### Certifications

CSA tested to UL standards

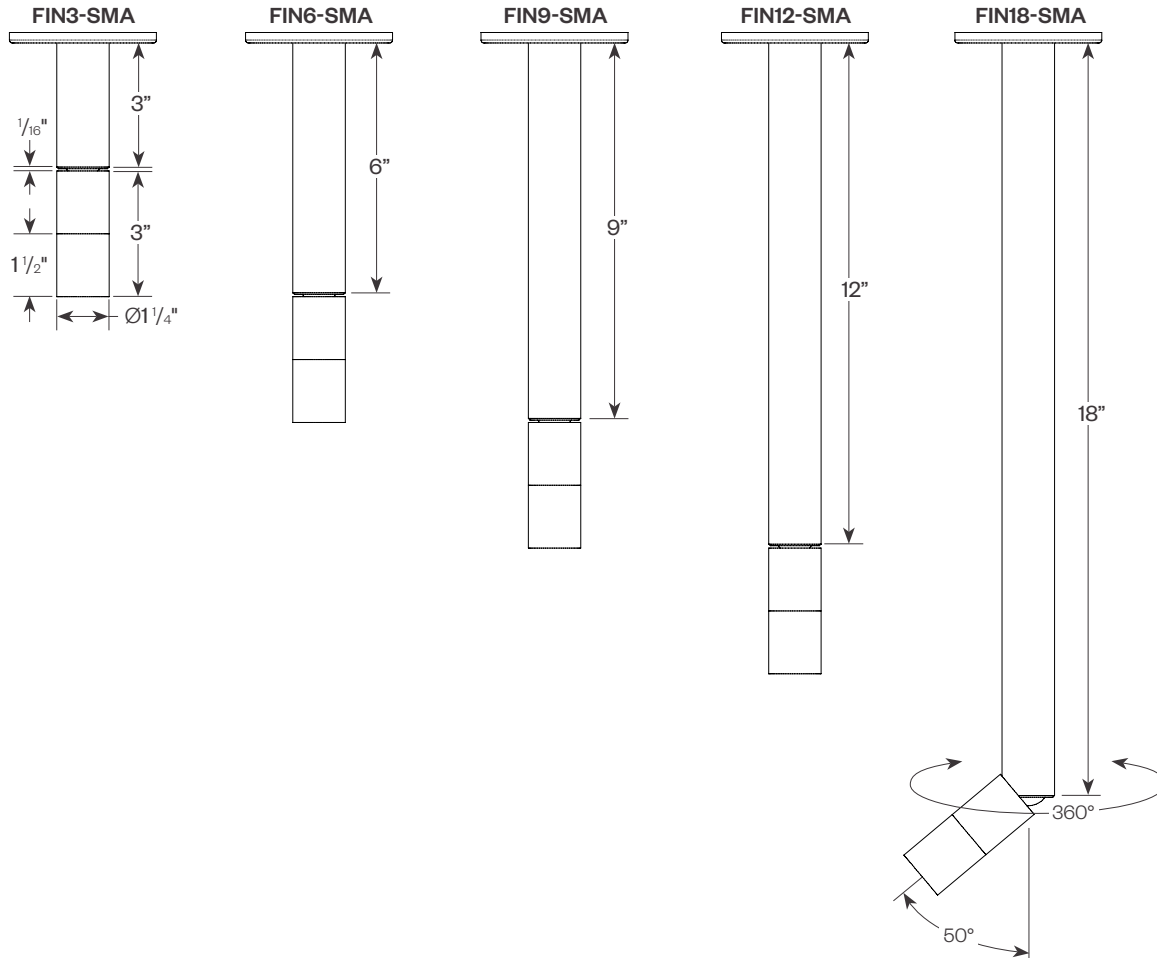
Indoor use only

Damp location

#### Warranty

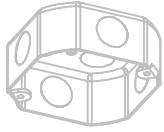
5 year limited warranty

### Product Details



PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_

### Junction Box Mounting Requirements

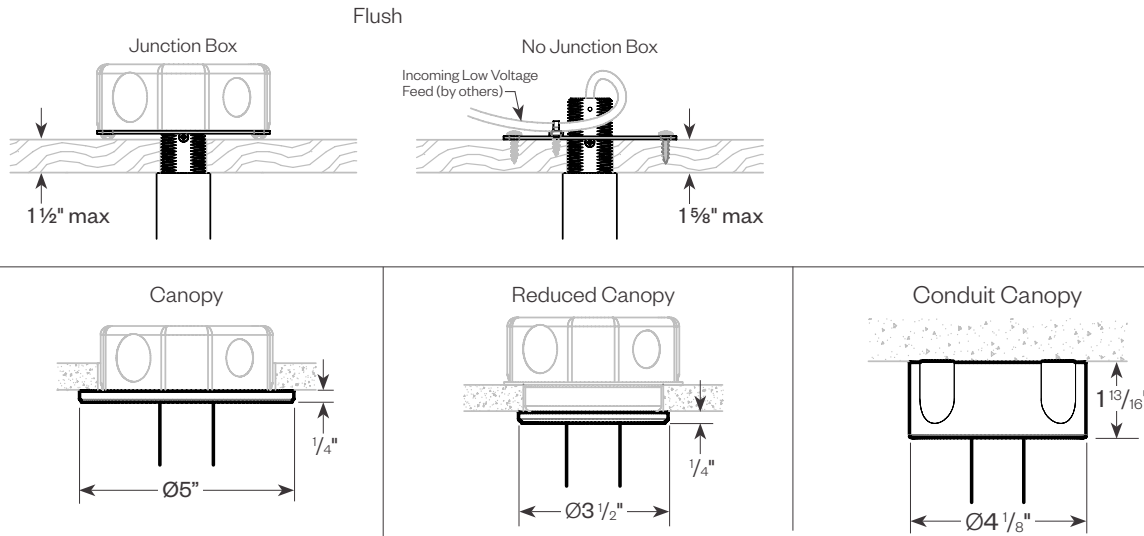


All Mounts Require 4" Octagonal  
Junction Box (*by others*)

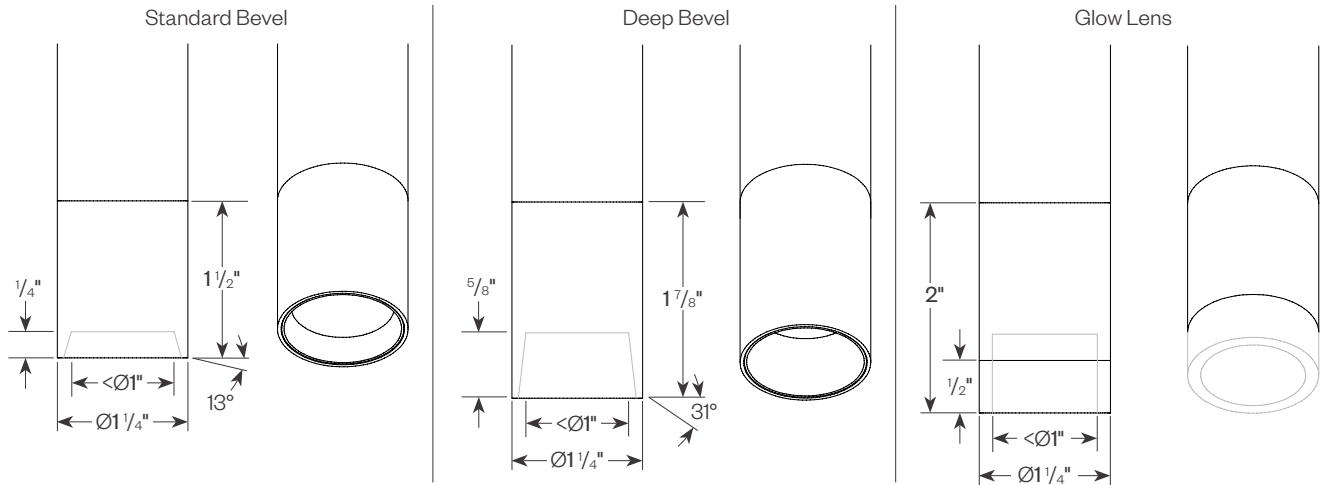


Reduced Canopy (**RC**) Mounts also  
Require Raised Cover (*by others*) for  
4" Octagonal Junction Box

### Mounting Options



### Door Styles



### Finish Options

Powder coat paint. Consult factory for custom finishes.



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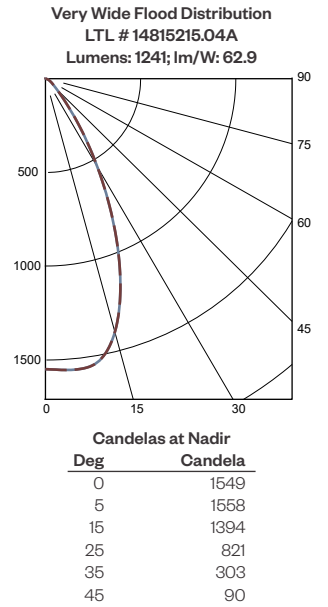
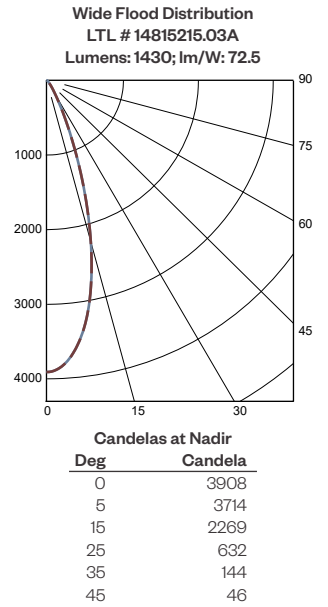
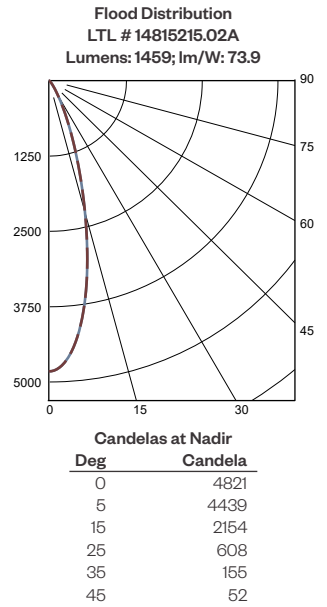
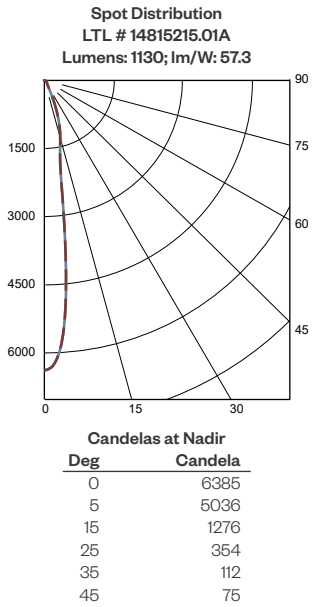
**Performance Data**

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

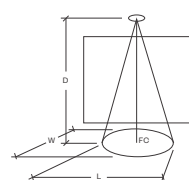
Wattage:	6W	8W	10W	12W	15W	17W	20W
Factor:	0.44	0.54	0.64	0.73	0.82	0.91	1.0

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

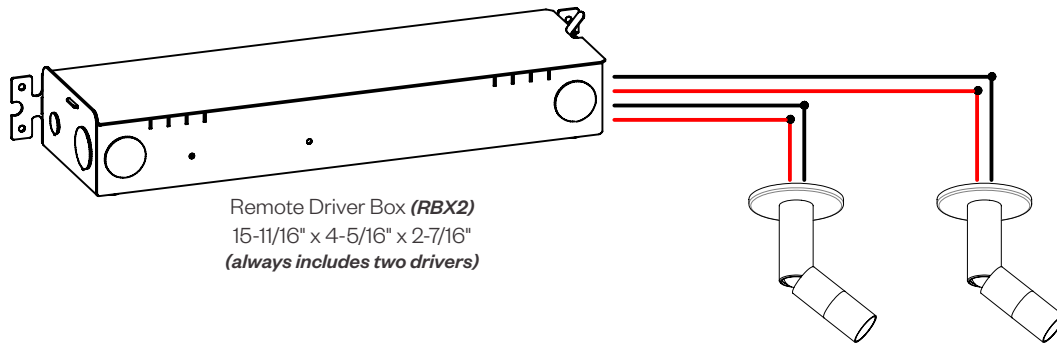
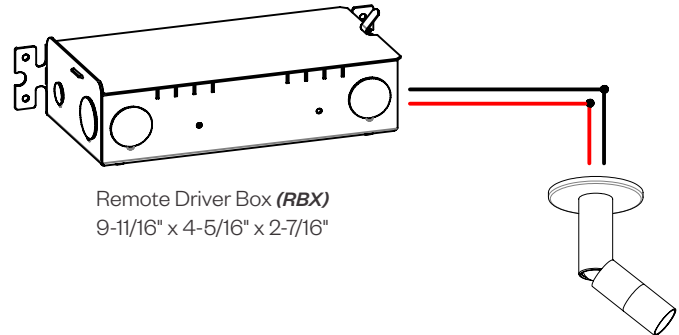
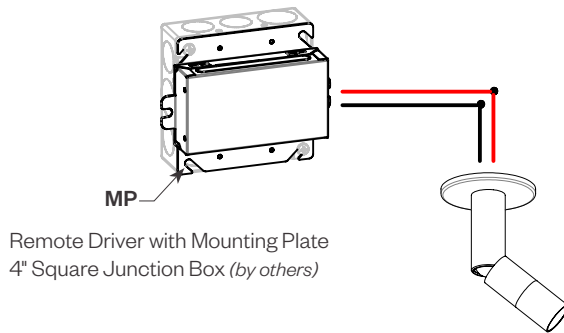


D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

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**Enclosure Options for Remote Driver**



**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.**

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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 ---**

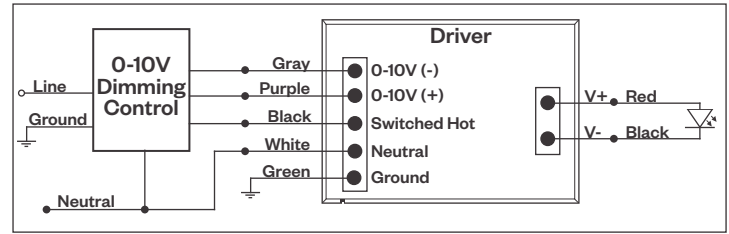
#### 0-10V DIMMING

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

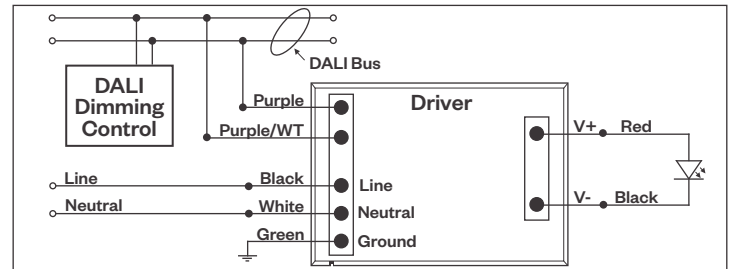
#### DALI DIMMING

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)	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

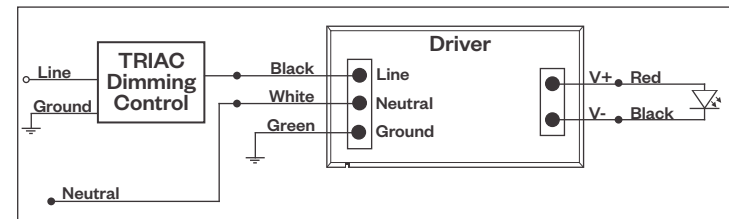
#### TRIAC (Forward Phase) DIMMING (Standard)

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

**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.

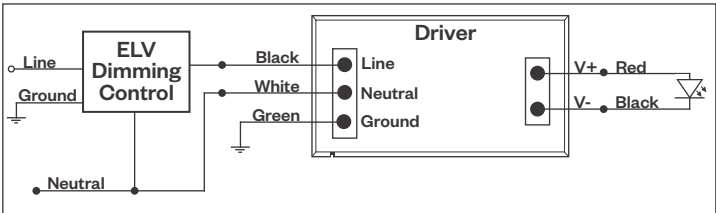
**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

**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**



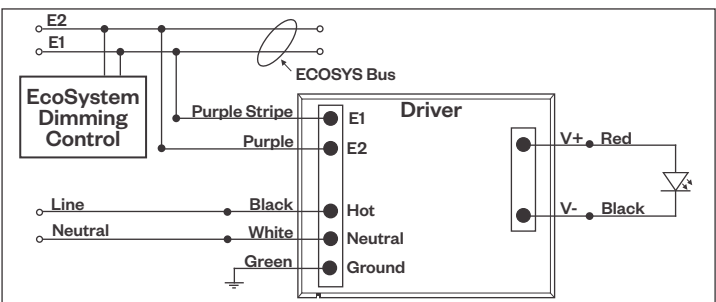
Compatible Dimmers†:		
Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

**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.