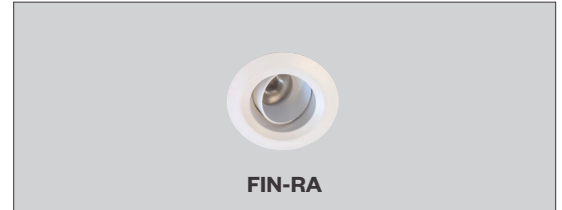


**PROJECT:**
**TYPE:**
**Features**

The FINCH family of recessed downlights with a 1" aperture, features exceptional output, and a broad range of configurations to provide discreet quality illumination while integrating into the architecture. It is available in fixed, adjustable (30° tilt) and wall wash. Round or square, trimmed, trimless or millwork and is serviceable from below.

The FINCH recessed adjustable can be coupled with the surface cylinder to create a broader composition and a unique design.


**Product Overview**

Type: Recessed Round 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	623	107.4	3000K	80+
8	769	93.8	3000K	80+
10	914	88.7	3000K	80+
12	1039	81.0	3000K	80+

Data is based on Wide Flood optics, 120V, 3000K, 80+ IES files available on website.

**Electrical Data**

Voltage	6W		8W		10W		12W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	5.8	0.05	8.2	0.06	10.3	0.08	12.7	0.10
277V	6.2	0.03	8.5	0.04	10.4	0.04	12.6	0.05

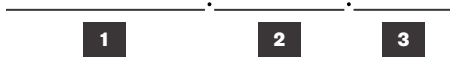
Electronic constant current LED driver.

Data is based on tests using TRIAC/ELV (LE/TE) driver.

PROJECT:

TYPE:

### 1" Recessed Round Adjustable Housing/Frame Ordering Information



1	Model	2	Style	3	Options/Accessories
	FIN-RA-NC (non-IC)		T trimmed		<b>HB49</b> - hanger bars from min 29" to max 49"
	FIN-RA-CP (Chicago Plenum (CCEA), 10W max)		TL trimless		Note: 26" hanger bars are included as standard.
	FIN-RA-IC (Insulated Ceiling/air tight, 10W max)		MWK millwork		Choose <b>HB49</b> option above for larger mounting spaces only.

### 1" Recessed Round Adjustable Trim Ordering Information



1	Model	2	Style	3	Finish	4	Beam Spread
	FIN-RA adjustable		T trimmed TL trimless MWK millwork		Trimmed MBW matte black, white flange MWW matte white, white flange SLVW matte silver, white flange MBB matte black, black flange SLVS matte silver, silver flange  _____ other (RAL#, consult factory for lead time)	Trimless/Millwork MB matte black MW matte white SLV matte silver  _____ other (RAL#, consult factory for lead time)	SP spot, 18° FL flood, 28° WF wide flood, 34° VWF very wide flood, 52°
5	Color Temp and CRI		6	Options/Accessories			
	80+ CRI	90+ CRI		SOL solite beam softening lens HEX hexcell louver LS linear spread lens 10°x60°			
	30 3000K, 80+	249 2400K, 90+					
	35 3500K, 80+	279 2700K, 90+					
	40 4000K, 80+	309 3000K, 90+					
		359 3500K, 90+					
		409 4000K, 90+					

### Remote Driver Ordering Information



1	Model	2	Wattage	3	Driver	4	Driver Enclosure Options
	FINPW		6 6W (623 lm) 8 8W (789 lm) 10 10W (914 lm) 12 12W (1039 lm)		O-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 (for use with 10W & 12W only)		MP mounting plate (standard) RBX remote box (1 driver) RBX2 remote box (2 drivers)

**PROJECT:**
**TYPE:**

## Specifications

### Construction

Galvanized steel frame  
 Galvanized steel splice housing and hanger brackets  
 Screwless plaster frame with perforated face for easier installation  
*(for trimless version only)*  
 Aluminum heatsink  
 Die-cast aluminum trim

### Optical

Beam Spreads: Spot 18°, Flood 28°, Wide Flood 34°,  
 Very Wide Flood 52°, Linear Spread 10°x60°

### LED

Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K  
 CRI: 80+ typ. (3000K, 3500K, 4000K)  
 90+ typ. (2400K, 2700K, 3000K, 3500K, 4000K)  
 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

Wattage: 6W, 8W, 10W, 12W  
 Electronic constant current remote LED driver, 120/277VAC input

### Finish

Powder coat paint/wet paint  
 Consult factory for custom finishes

### Mounting

26" Hanger bars included.  
 Optional **HB49** - hanger bars from min 29" to max 49" available.  
**Trimmed Fixture:**  
 For use in grid or sheetrock ceilings, 1" max ceiling thickness.  
**Trimless Fixture:**  
 For use in sheetrock ceilings, 1" max ceiling thickness.  
**Millwork Fixture:**  
 Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. 1" max ceiling thickness.

### Certifications

CSA tested to UL standards  
 Indoor use only  
 Chicago Plenum (optional)  
 IC/AT rated (optional)  
 Damp location

### Warranty

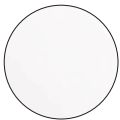
5 year limited warranty

## Finish Options

Powder coat paint.  
 Consult factory for custom finishes.



Matte Black



Matte White



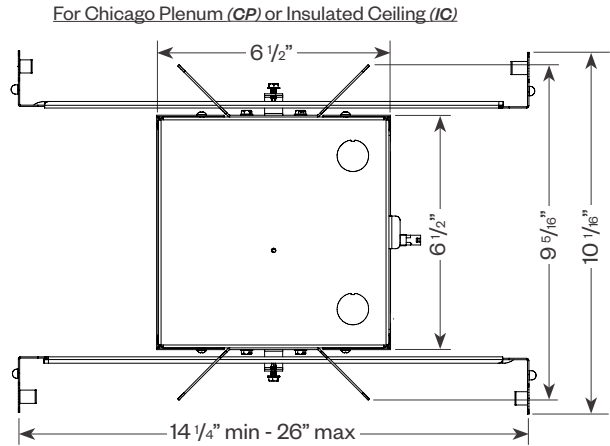
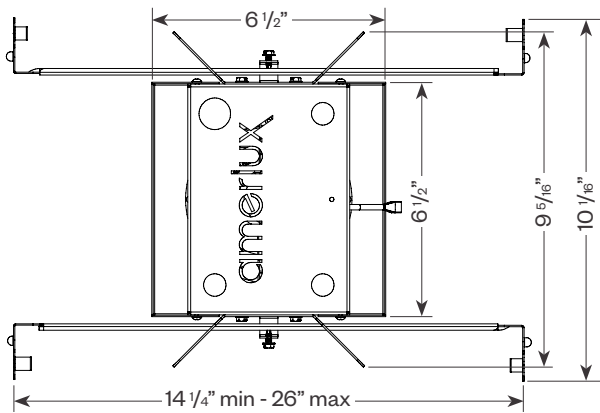
Matte Silver

PROJECT:

TYPE:

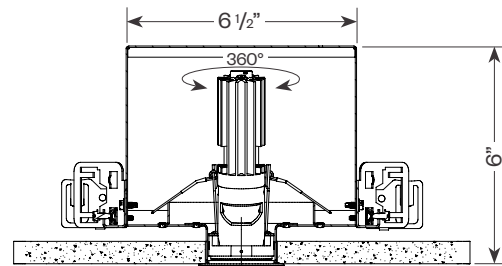
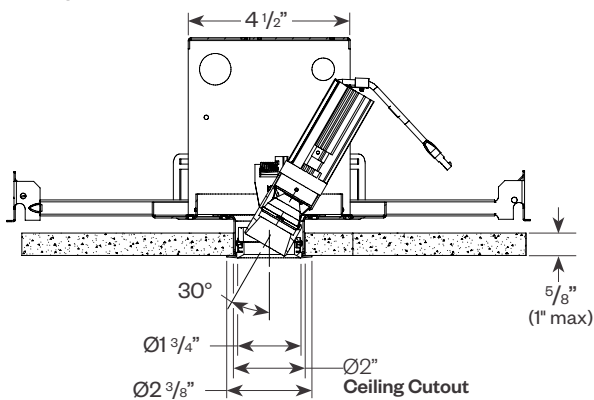
## Product Details - Trimmed

### Housing/Frame

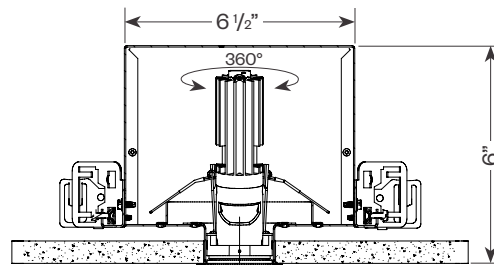
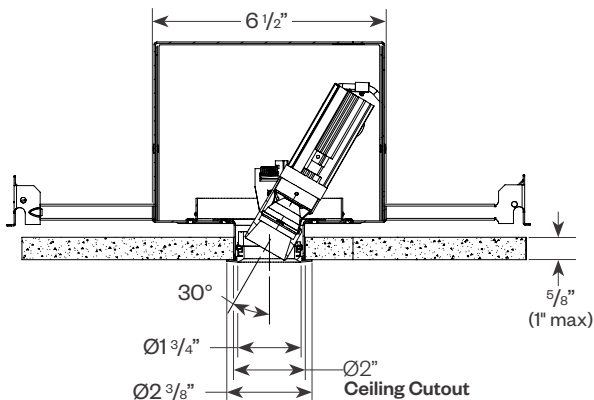


### Trimmed

FIN-RA-NCT



FIN-RA-CP/IC.T



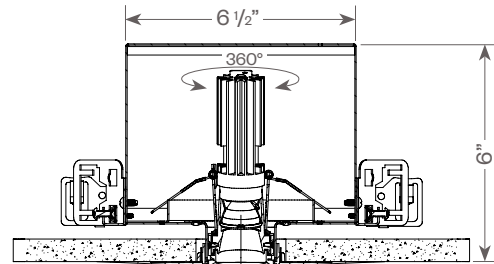
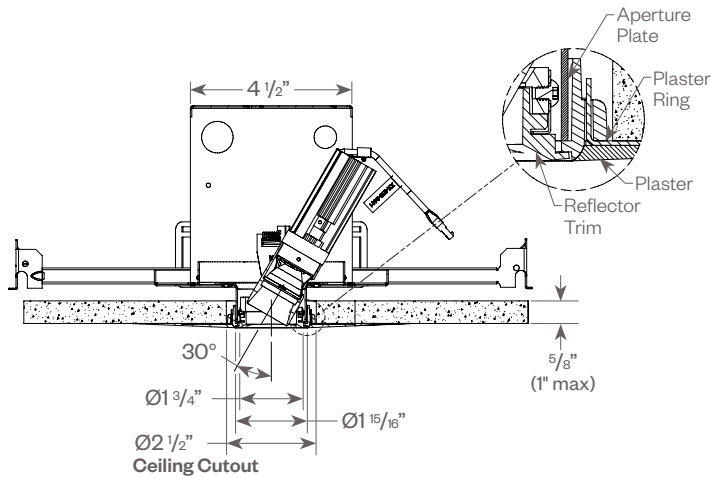
PROJECT:

TYPE:

## Product Details - Trimless and Millwork

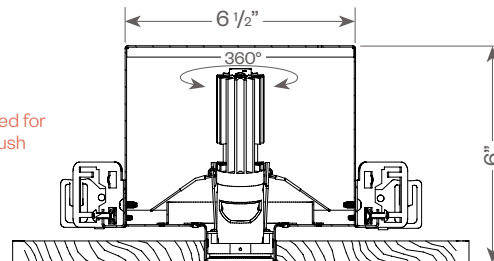
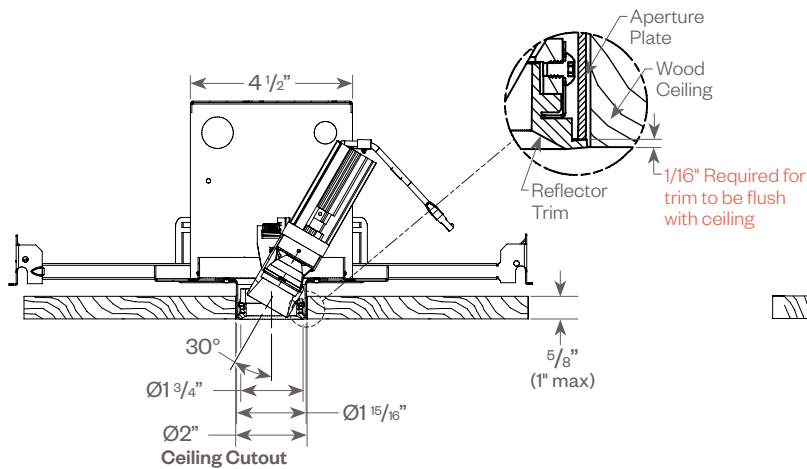
### Trimless

FIN-RA-NC.TL



### Millwork

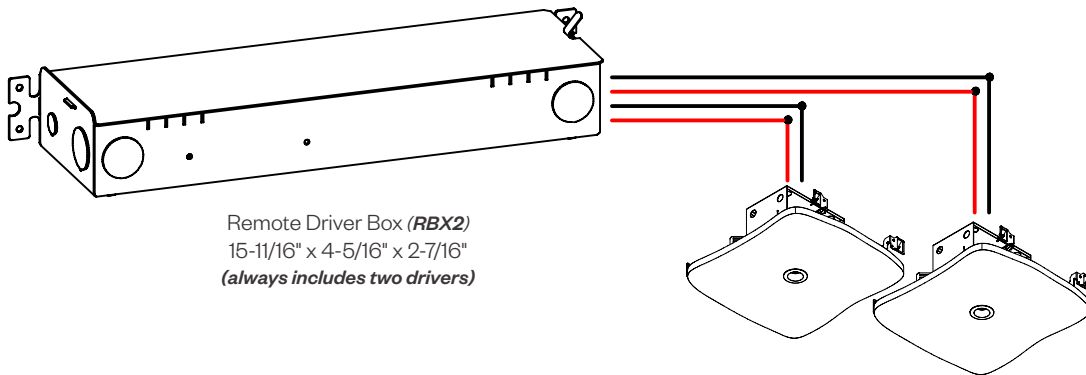
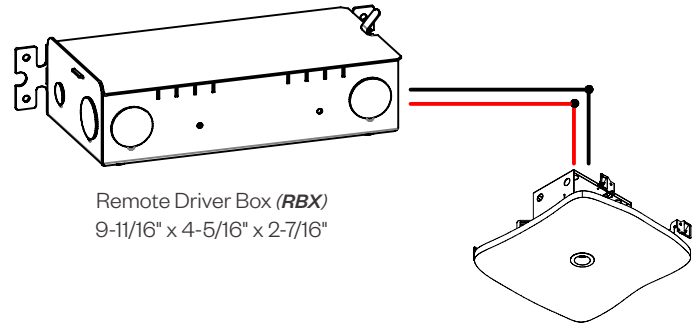
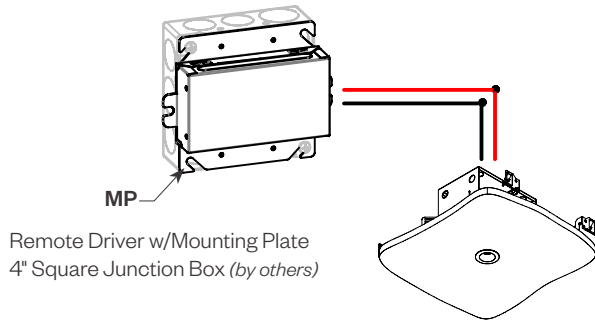
FIN-RA-NC.MWK



PROJECT:

TYPE:

## Enclosure Options for Remote Driver



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

**PROJECT:**
**TYPE:**

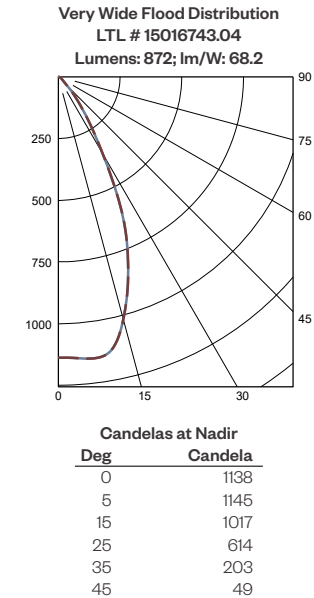
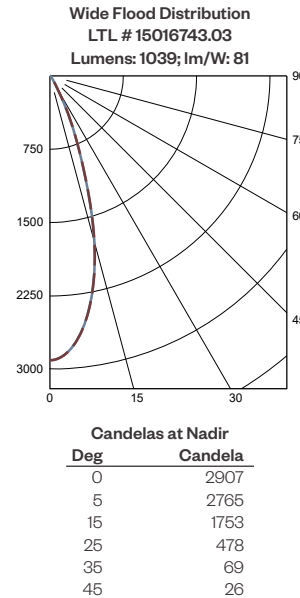
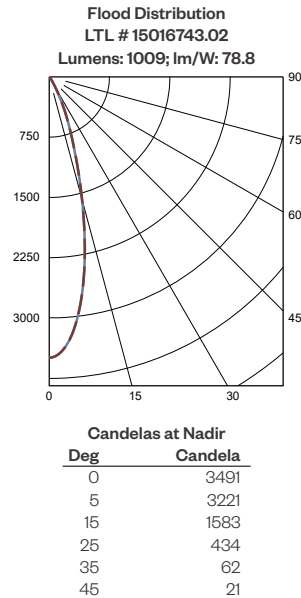
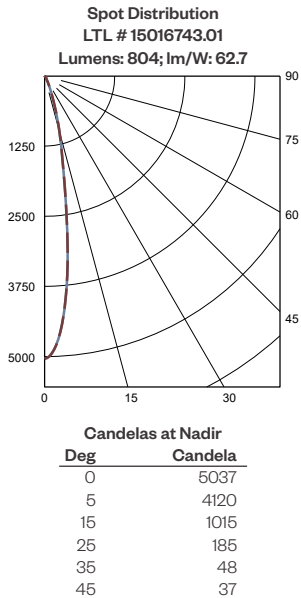
## Performance Data

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

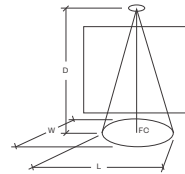
Wattage:	6W	8W	10W	12W
Factor:	0.60	0.74	0.88	1.0

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

### 12W, 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'	137	2.0	2.0
7.5'	74	2.7	2.7
10.0'	45	3.4	3.4
12.5'	30	4.0	4.0

**Flood**  
0° Aiming Angle  
Horizontal  
Footcandles




D	FC	L	W
5.0'	117	2.7	2.7
7.5'	57	3.7	3.7
10.0'	33	4.9	4.9
12.5'	22	6.0	6.0

**Wide Flood**  
0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	103	3.0	3.0
7.5'	49	4.4	4.4
10.0'	28	5.7	5.7
12.5'	18	7.1	7.1

**Very Wide Flood**  
0° Aiming Angle  
Horizontal  
Footcandles



D	FC	L	W
5.0'	45	4.2	4.2
7.5'	20	6.3	6.3
10.0'	11	8.4	8.4
12.5'	7	10.5	10.5

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 ---

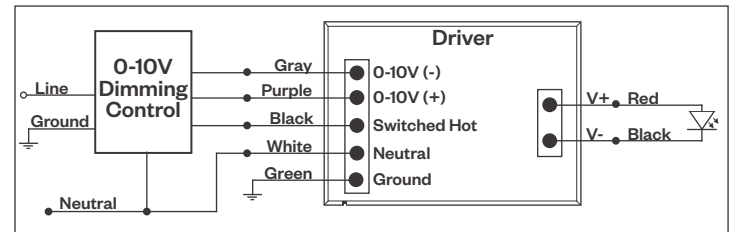
### 0-10V DIMMING

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

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

#### Compatible Dimmers†:

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

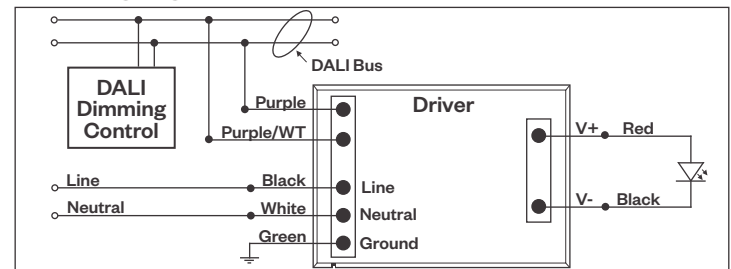
##### Central System

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

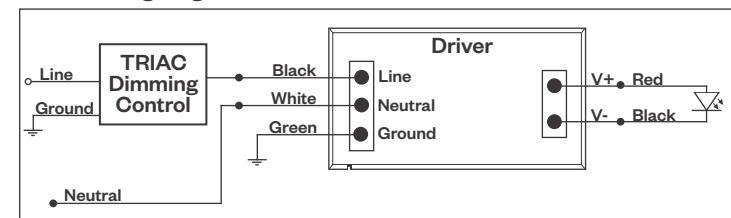
Lutron "Nova-T"

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.

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

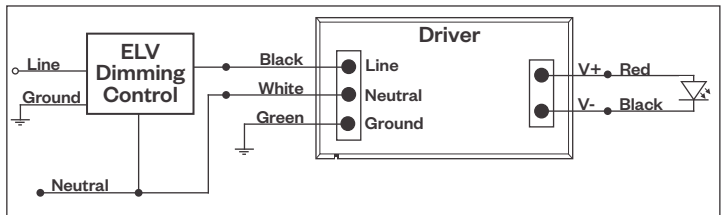
#### ELV - Electronic Low Voltage (*Reverse Phase*) DIMMING (Standard)

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

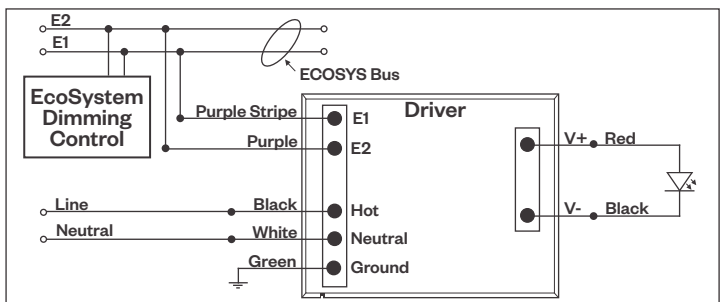
##### Notes:

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

#### 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.