

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:

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1" Recessed Round Adjustable Housing/Frame Ordering Information

1 2 3

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

1" Recessed Round Adjustable Trim Ordering Information

1 2 3 4 5 6

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

Remote Driver Ordering Information

1 2 3 4

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

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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

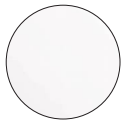
- 5 year limited warranty

Finish Options

- Powder coat paint.
- Consult factory for custom finishes.



Matte Black



Matte White



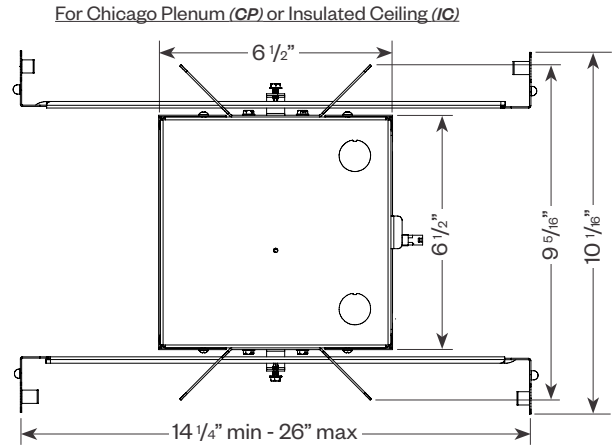
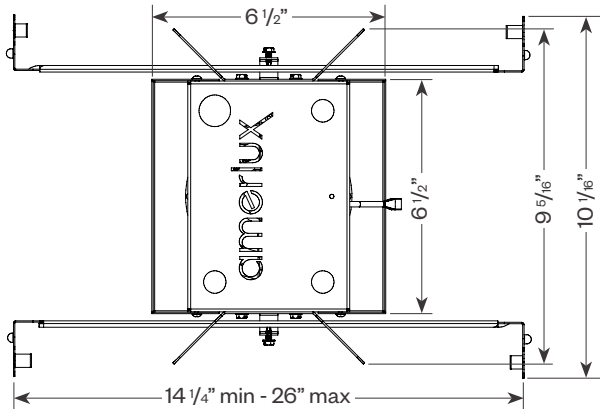
Matte Silver

PROJECT:

TYPE:

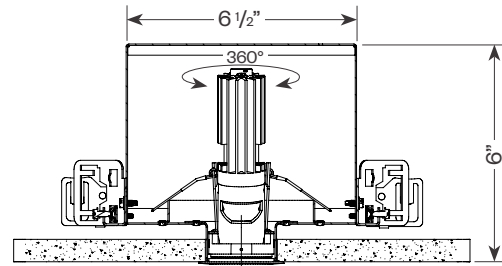
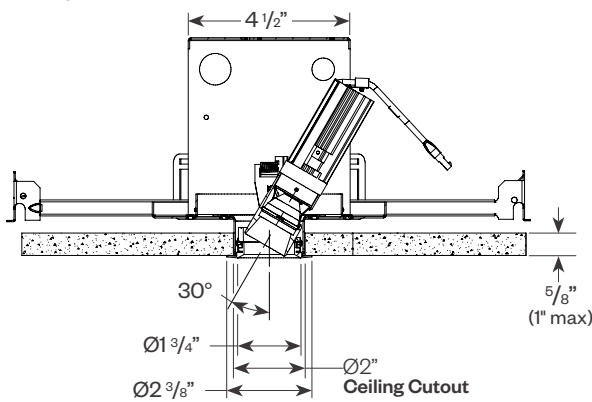
Product Details - Trimmed

Housing/Frame

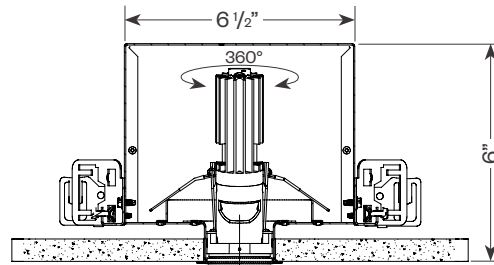
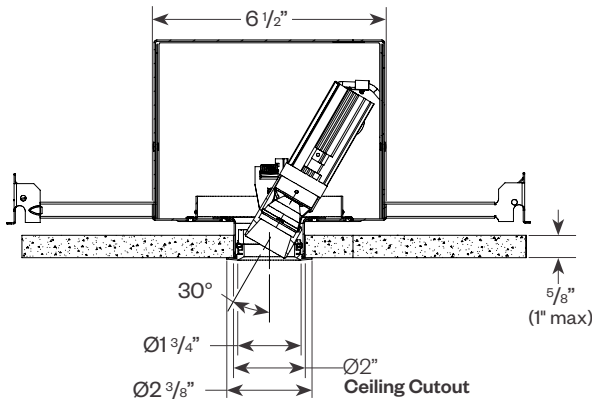


Trimmed

FIN-RA-NCT



FIN-RA-OP/IC.T



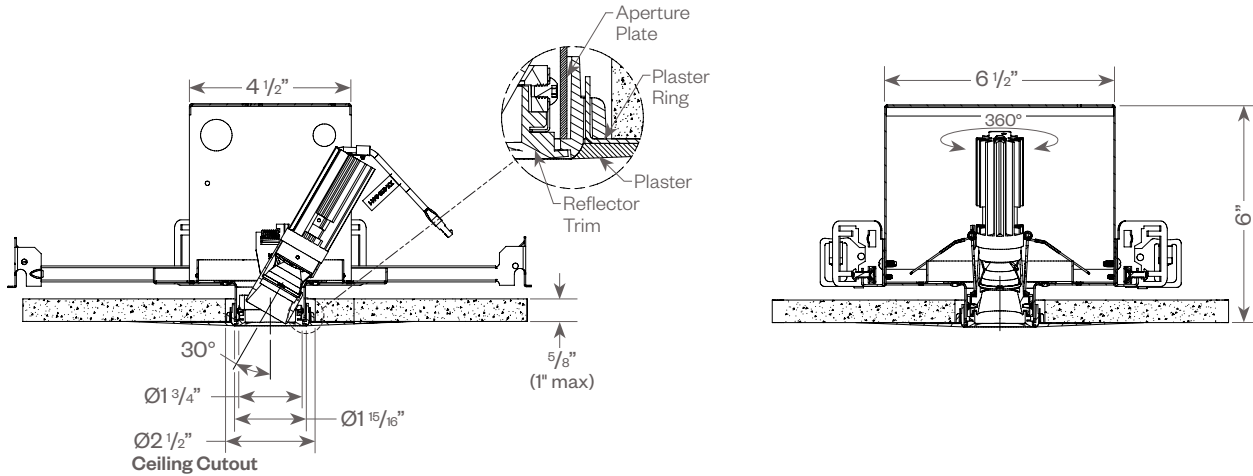
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TYPE:

Product Details - Trimless and Millwork

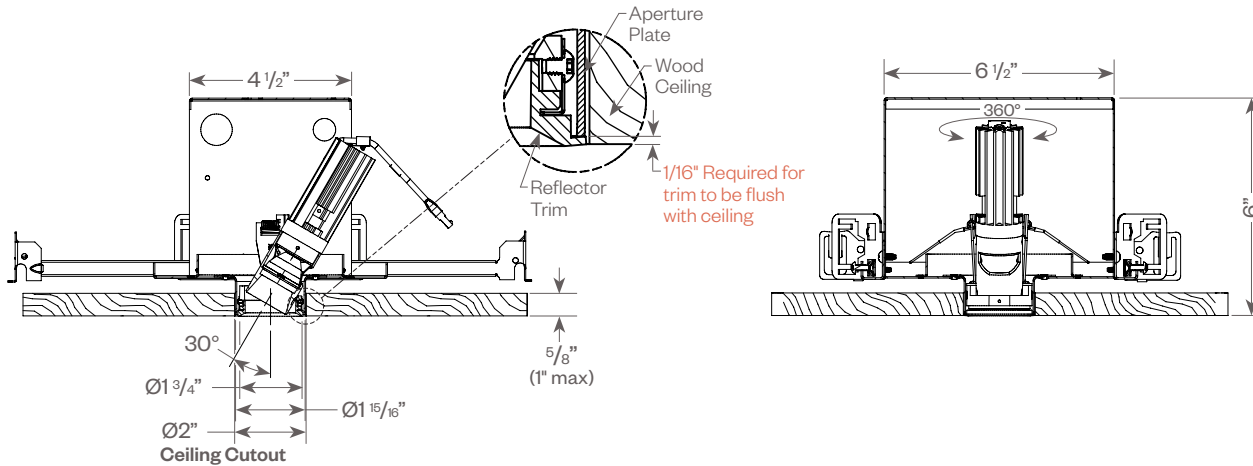
Trimless

FIN-RA-NC.TL



Millwork

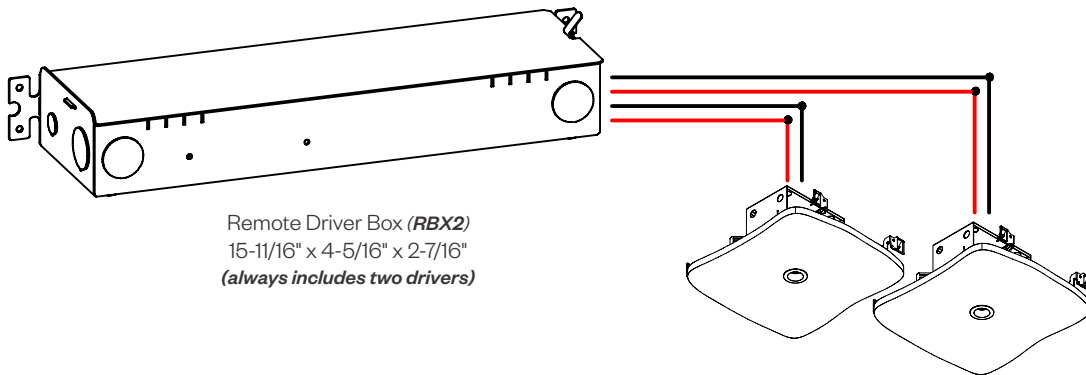
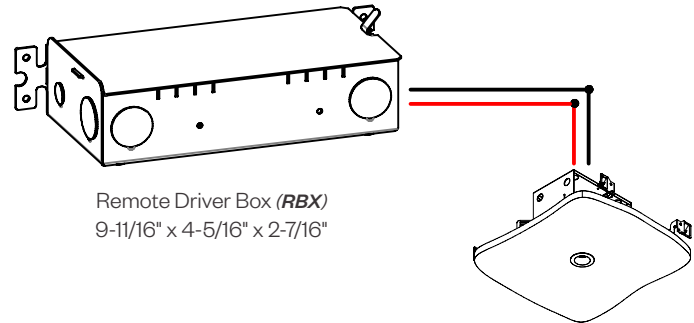
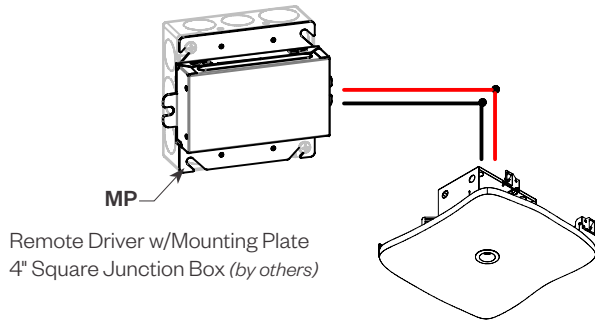
FIN-RA-NC.MWK



PROJECT:

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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.

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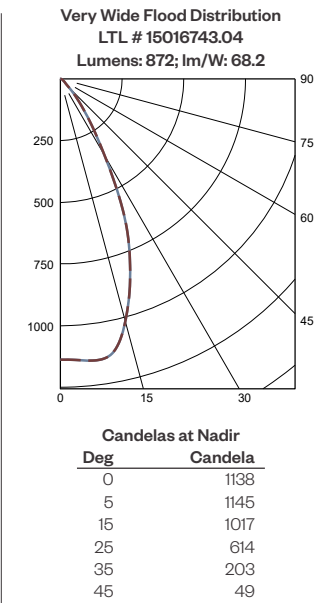
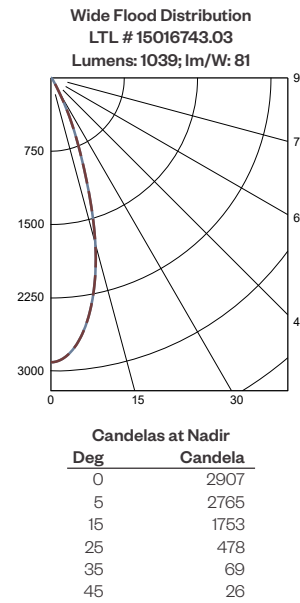
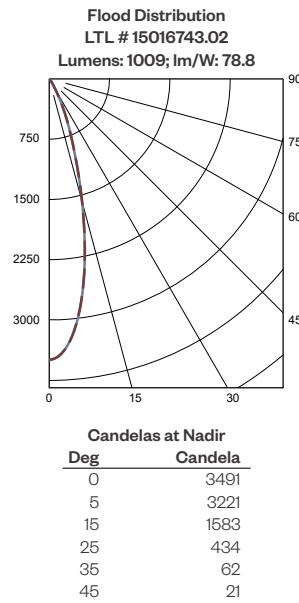
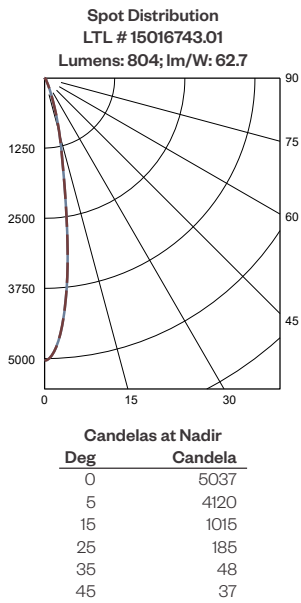
Performance Data

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

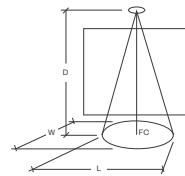
Wattage:	6W	8W	10W	12W
Factor:	0.60	0.74	0.88	1.0

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

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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 ---

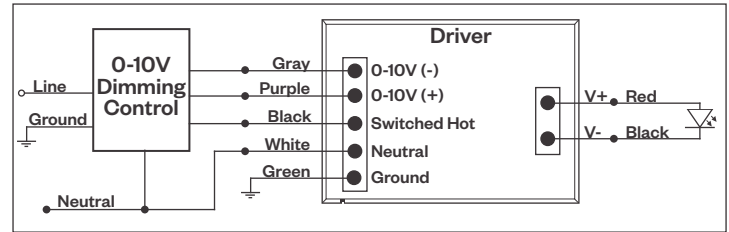
0-10V DIMMING

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

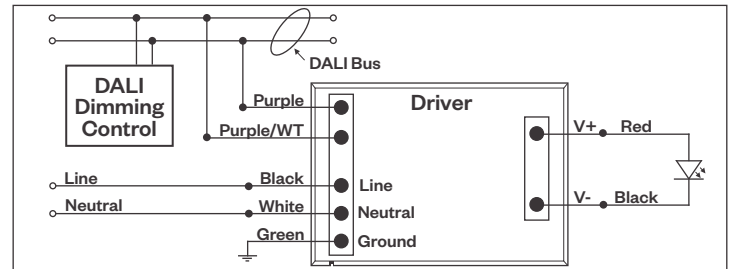
DALI DIMMING

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

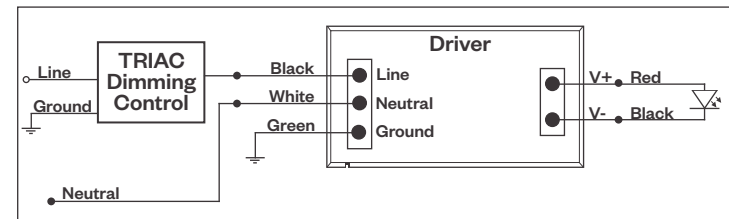
TRIAC (Forward Phase) DIMMING (Standard)

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.

PROJECT:	TYPE:
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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.

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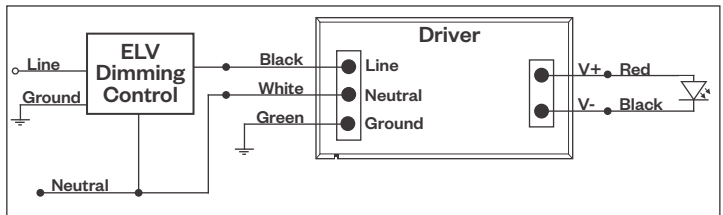
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

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"		

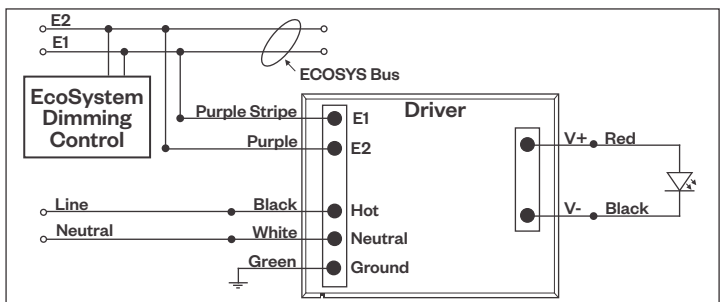
LUTRON LDE1 DIMMING

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!**

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.