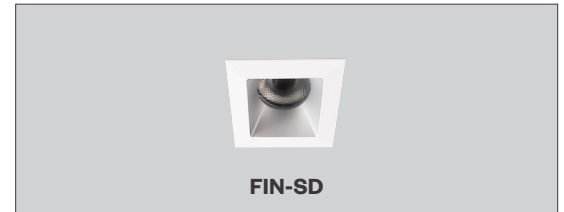


PROJECT:
TYPE:
Features

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 downlight can be coupled with the surface cylinder to create a broader composition and a unique design.


Product Overview

Type: Recessed Square Downlight
 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	667	115	3000K	80+
8	823	100.4	3000K	80+
10	979	95	3000K	80+
12	1112	87.1	3000K	80+

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

Electrical Data

	6W		8W		10W		12W	
Voltage	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

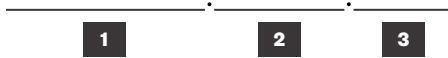
Electronic constant current LED driver.

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

PROJECT:

TYPE:

1" Recessed Square Downlight Housing/Frame Ordering Information



1	Model	2	Style	3	Options/Accessories
	FIN-SD-NC (non-IC)		T ^{T24} trimmed		HB49 ^{T24} - hanger bars from min 29" to max 49"
	FIN-SD-CP (Chicago Plenum (CEEA), 10W max)		TL ^{T24} trimless		Note: 26" hanger bars are included as standard.
	FIN-SD-IC ^{T24} (Insulated Ceiling/air tight, 10W max)		MWK ^{T24} millwork		Choose HB49 option above for larger mounting spaces only.

1" Recessed Round Downlight Trim Ordering Information



1	Model	2	Style	3	Finish	4	Beam Spread
	FIN-SD ^{T24} downlight FIN-SSHW shower (available for use with trimmed (T) style only)		T ^{T24} trimmed TL ^{T24} trimless MWK ^{T24} millwork		Trimmed MBW ^{T24} matte black, white flange MWW ^{T24} matte white, white flange SLVW ^{T24} matte silver, white flange MBB ^{T24} matte black, black flange SLVS ^{T24} matte silver, silver flange _____ other ^{T24} (RAL#, consult factory for lead time)		SP ^{T24} spot, 18° FL ^{T24} flood, 28° WF ^{T24} wide flood, 34° VWF ^{T24} very wide flood, 52°
					Trimless/Millwork MB ^{T24} matte black MW ^{T24} matte white SLV ^{T24} matte silver _____ other ^{T24} (RAL#, consult factory for lead time)		
5	Color Temp and CRI		6	Options/Accessories			
	80+ CRI	90+ CRI		SOL solite beam softening lens (comes standard with SSHW trim)			
	30 3000K, 80+	249 2400K, 90+		HEX hexcell louver (not available for use with SSHW trim)			
	35 3500K, 80+	279 ^{T24} 2700K, 90+		LS linear spread lens 10°x60°			
	40 4000K, 80+	309 ^{T24} 3000K, 90+					
		359 ^{T24} 3500K, 90+					
		409 ^{T24} 4000K, 90+					

Remote Driver Ordering Information



1	Model	2	Wattage	3	Driver	4	Driver Enclosure Options
	FINPW ^{T24}		6 ^{T24} 6W (623 lm)		O-10V ^{T24} 0-10V dimming, 1% dim, 120/277VAC		MP mounting plate (standard)
			8 ^{T24} 8W (789 lm)		DALI DALI dimming, 1% dim, 120/277VAC		RBX ^{T24} remote box (1 driver)
			10 ^{T24} 10W (914 lm)		LE/TE ^{T24} TRIAC/ELV dimming, 5% dim, 120/277VAC		RBX2 ^{T24} remote box (2 drivers)
			12 12W (1039 lm)		HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/ Fade-to-Black, 120/277VAC (for use with 10W & 12W only)		

^{T24} Title 24 Compliant

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
 Title 24 Compliant *(see ordering page for options that apply)*

Warranty

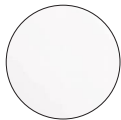
5 year limited warranty

Finish Options

Powder coat paint.
 Consult factory for custom finishes.



Matte Black



Matte White



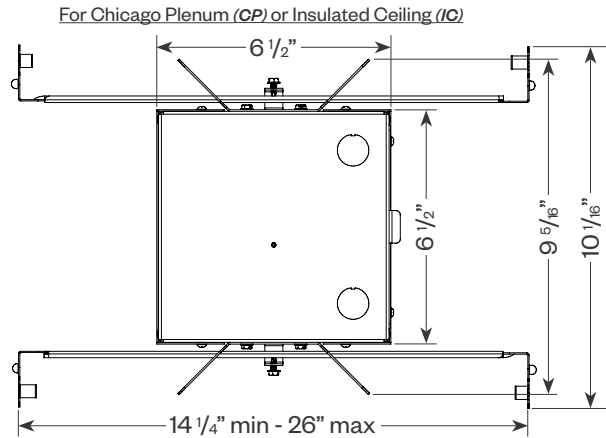
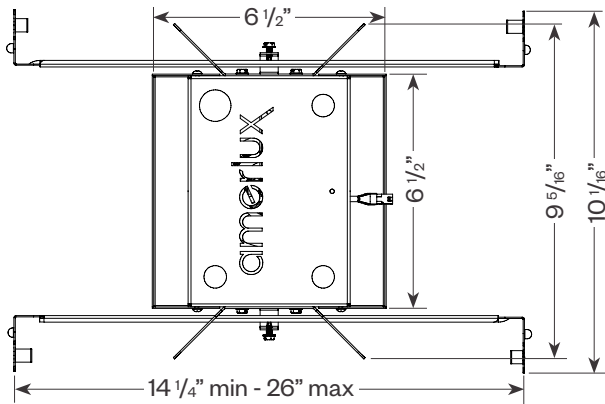
Matte Silver

PROJECT:

TYPE:

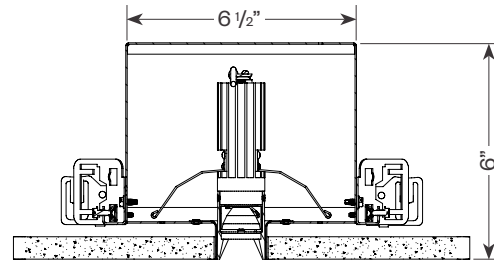
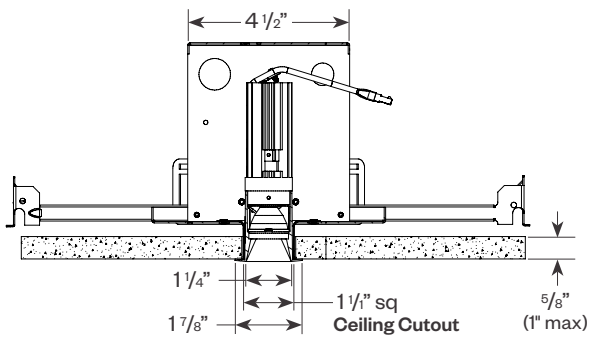
Product Details - Trimmed

Housing/Frame

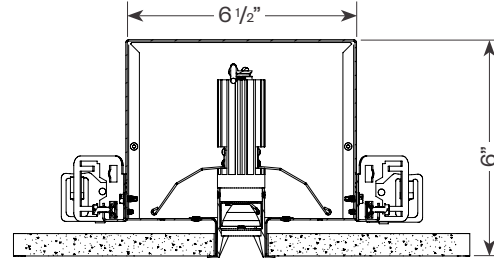
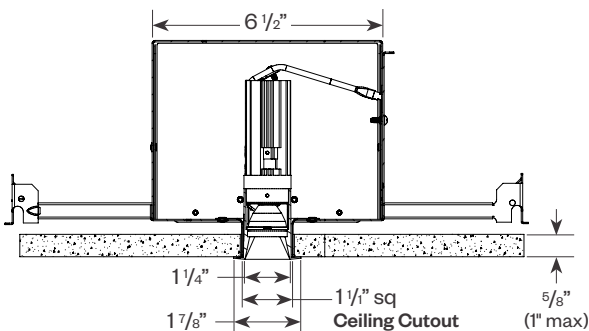


Trimmed

FIN-SD-NC.T



FIN-SD-CP/IC.T



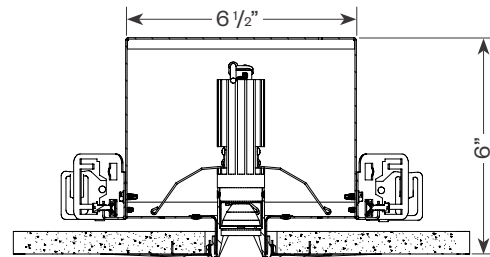
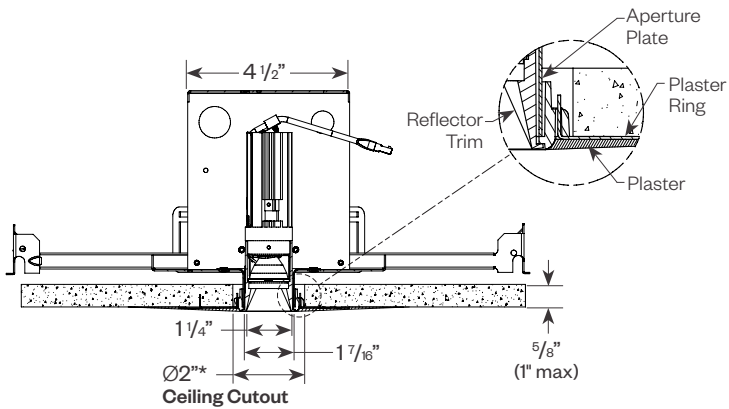
PROJECT:

TYPE:

Product Details - Trimless and Millwork

Trimless

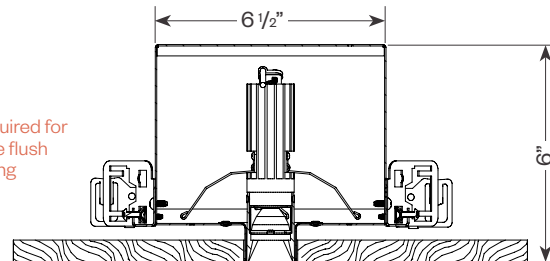
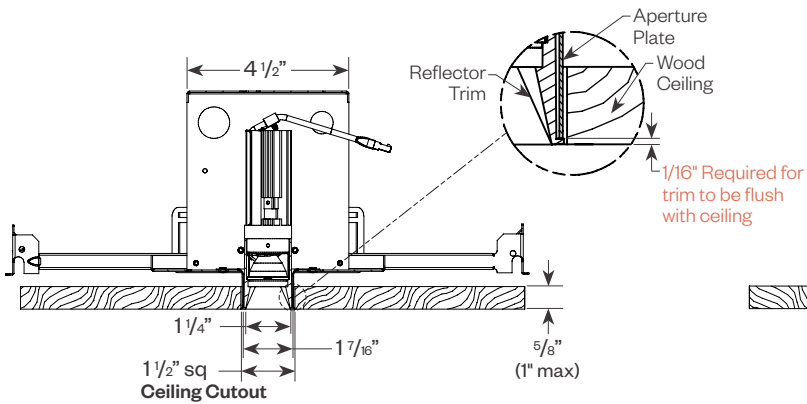
FIN-SD-NC.TL



** Note: Round cutout will work for this application.*

Millwork

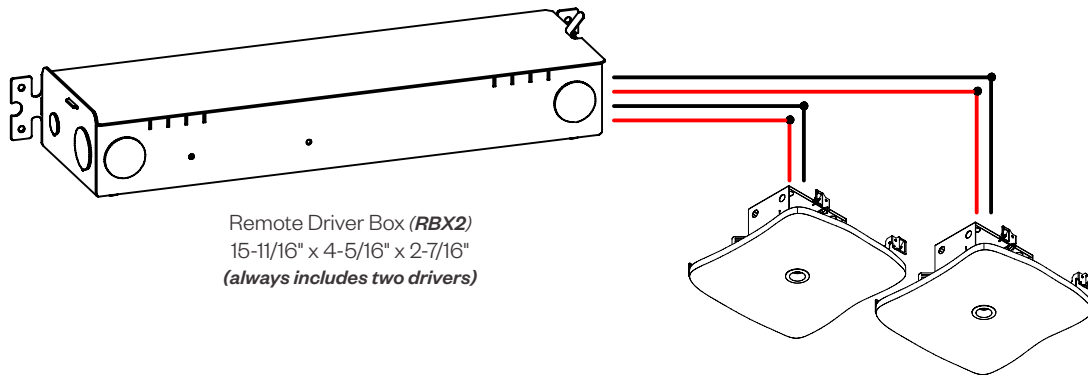
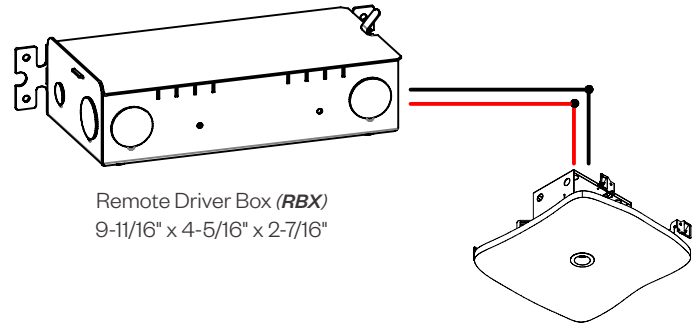
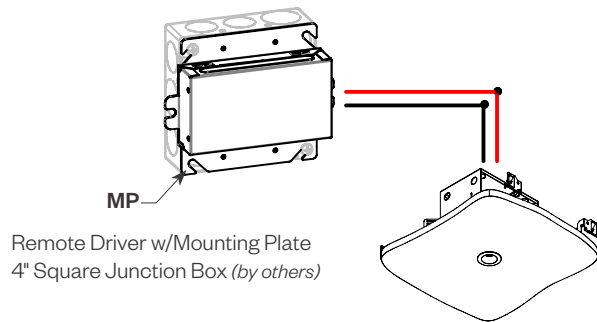
FIN-SD-NC.MWK



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:

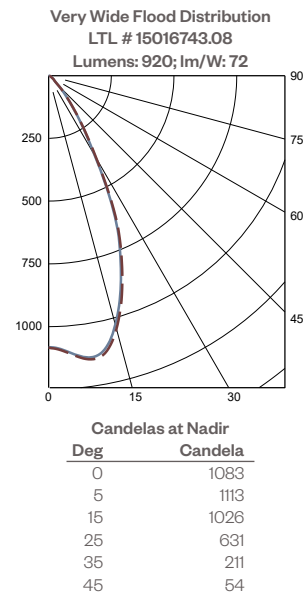
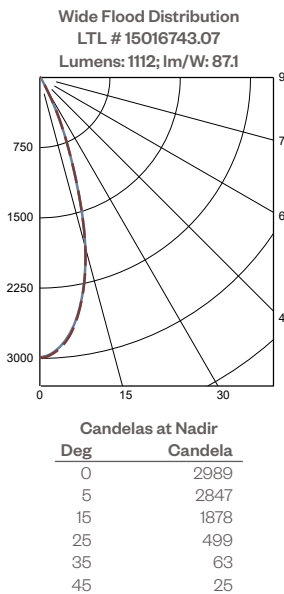
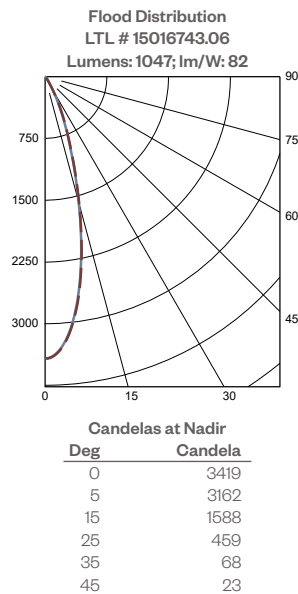
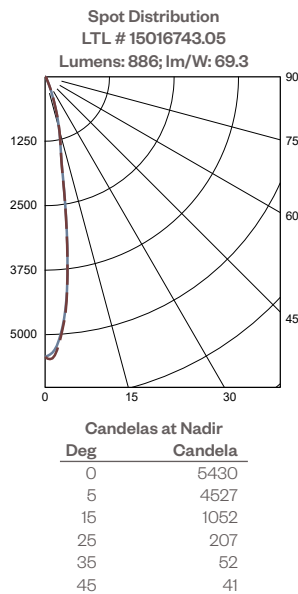
Performance Data

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

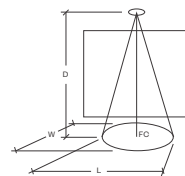
Wattage:	6W	8W	10W	12W
Factor:	0.60	0.74	0.88	1.0

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'	148	1.9	1.9
7.5'	81	2.6	2.6
10.0'	49	3.2	3.2
12.5'	33	3.8	3.8

Flood
0° Aiming Angle
Horizontal
Footcandles




D	FC	L	W
5.0'	115	2.7	2.7
7.5'	56	3.7	3.7
10.0'	33	5.0	5.0
12.5'	21	6.1	6.1

Wide Flood
0° Aiming Angle
Horizontal
Footcandles



D	FC	L	W
5.0'	107	3.0	3.0
7.5'	50	4.5	4.5
10.0'	29	5.9	5.9
12.5'	19	7.3	7.3

Very Wide Flood
0° Aiming Angle
Horizontal
Footcandles



D	FC	L	W
5.0'	44	4.3	4.3
7.5'	20	6.5	6.5
10.0'	11	8.6	8.6
12.5'	7	10.8	10.8

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 ---

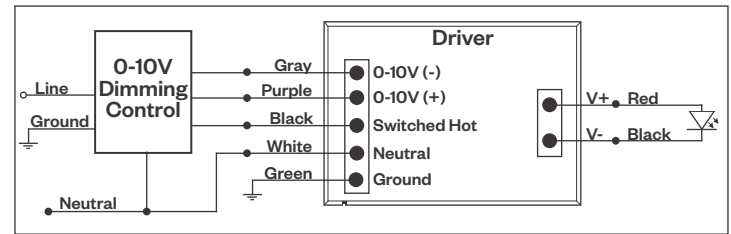
0-10V DIMMING

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)

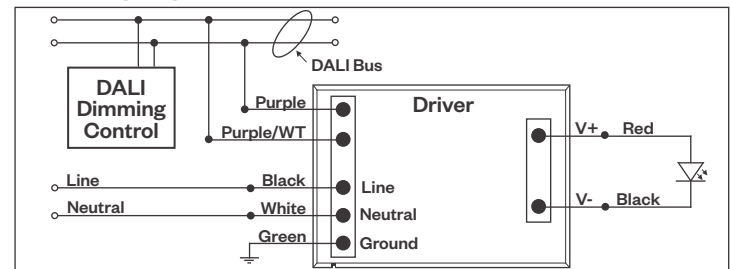
Leviton CD250 Controller

Central System

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)

Lutron "Diva"

Lutron "Nova-T"

Lutron "Maestro"

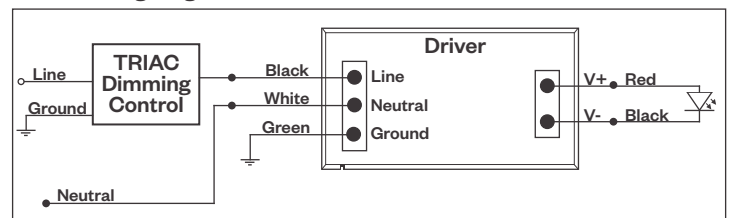
Lutron "Skylark"

Central System

Lutron "GP" Panel

Lutron Grafik Eye QS

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 ---

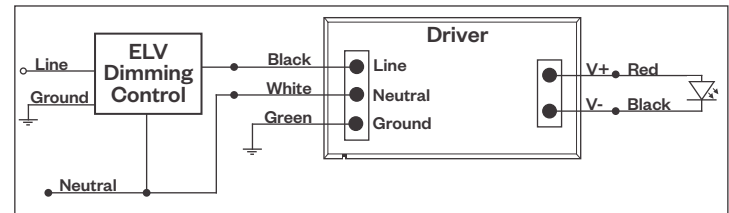
ELV - Electronic Low Voltage (*Reverse Phase*) DIMMING (Standard)

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

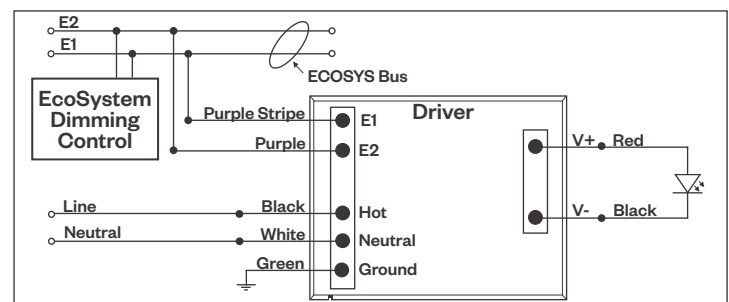
Notes:

- 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.