FINCH
c o l l e c t i o n

1" Round Wall Wash

amerlux
A Delta Group Company

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

Product Overview

Type:	Recessed Round Wall Wash
Wattage:	6W, 8W, 10W, 12W
Color Temp:	2400K, 2700K, 3000K, 3500K, 4000K
CRI:	80+ & 90+ typ.
Dimming:	0-10V, DALI, TRIAC/ELV, Hilume

PROJECT:

TYPE:

Performance Data

Watts	Lumens	LPW	CCT	CRI
6	363	62.6	3000K	80+
8	448	54.6	3000K	80+
10	532	51.6	3000K	80+
12	605	47.4	3000K	80+

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

Electrical Data

	6W		8W		10W		12W	
	Watts	Amps	Watts	Amps	Watts	Amps	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 ELV/TRIAC (LE/TE) driver.

5 year limited warranty
A M E R L U X L E D

C CSA US

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1" Recessed Round Wall Wash Housing/Frame Ordering Information

_____ . _____ . _____
    1   **2**   **3**

1 Model	**2** Style	**3** Options/Accessories
New Construction	**T** trimmed	**HB49** hanger bars from min 29" to max 49"
FIN-RW-NC (non-IC)	**TL** trimless	
FIN-RW-CP (Chicago Plenum (CCEA), 10W max)	**MWK** millwork	
FIN-RW-IC (Insulated Ceiling/air tight, 10W max)		

1" Recessed Round Wall Wash Trim Ordering Information

FIN-RW_____ . _____ . _____ . _____
     1   **2**   **3**   **4**

1 Model	**2** Style	**3** Finish	**4** Color Temp and CRI
FIN-RW wall wash	**T** trimmed	**MB** matte black	**30** 3000K, 80+
	TL trimless	**MW** matte white	**35** 3500K, 80+
	MWK millwork	**SLV** matte silver	**40** 4000K, 80+
			249 2400K, 90+
			279 2700K, 90+
			309 3000K, 90+
			359 3500K, 90+
			409 4000K, 90+

Remote Driver Ordering Information

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

FINPW_____ . _____ . _____ . _____
     1   **2**   **3**   **4**

1 Model	**2** Wattage	**3** Drivers	**4** Driver Enclosure Options
FINPW	**6** 6W (363 lm)	**0-10V** 0-10V dimming, 1%, 120/277VAC	**MP** mounting plate (standard)
	8 8W (448 lm)	**DALI** DALI dimming, 1%, 120/277VAC	**RBX** remote box (1 driver)
	10 10W (532 lm)	**LE/TE** TRIAC/ELV dimming, 5%, 120/277VAC	**RBX2** remote box (2 drivers)
	12 12W (605 lm)	**HILUME-H-ECO** Lutron LDE1 Hi-lume® 1% Soft-On/Fade-to-Black, 120/277VAC (for use with 10W & 12W only)	

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PROJECT: **TYPE:**

Specifications

Construction
Galvanized steel frame
Galvanized steel splice housing and hanger brackets (not for Remodeler version)
Screwless plaster frame with perforated face for easier installation (for trimless version only)
Aluminum heatsink
Die-cast aluminum trim

Optical
Engineered nano technology lens provides high transmission while concealing LED image

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 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 (not available with Shower trim):
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
IC/AT rated (optional)
Damp location

Warranty
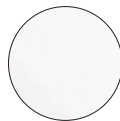5 year limited warranty

Finish Options

Powder coat paint.
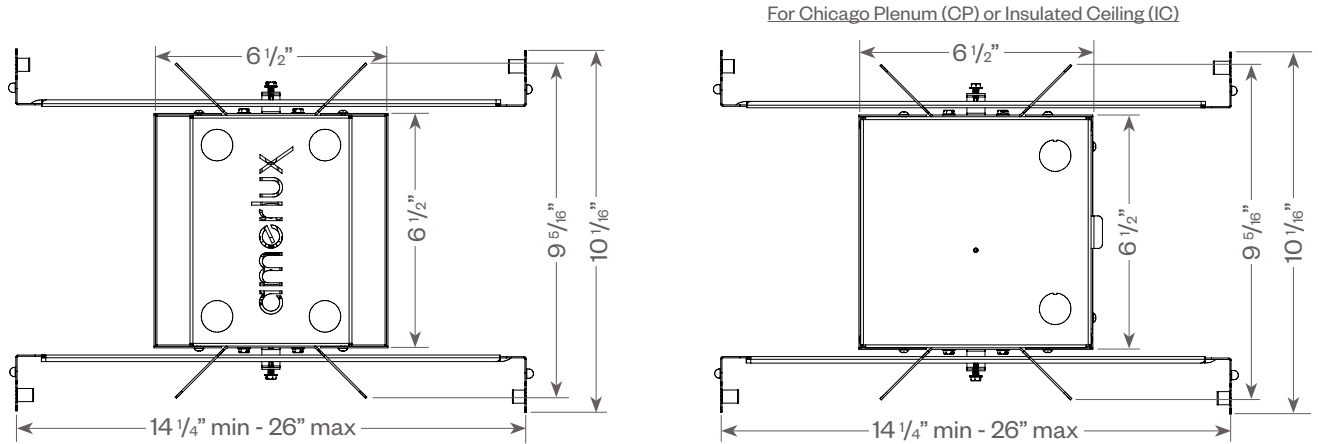Consult factory for custom finishes.
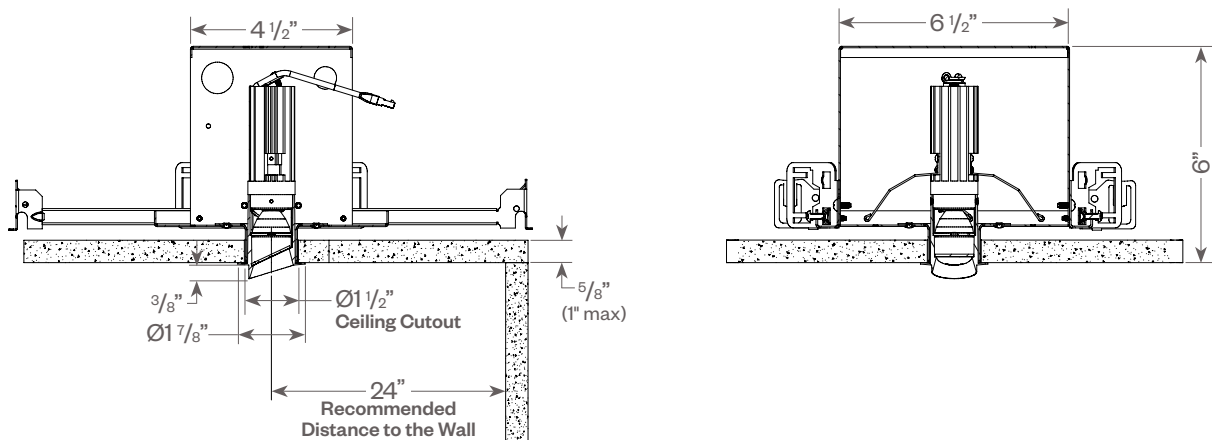
Matte Black   Matte White   Matte Silver

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Amerlux reserves the right to change details that do not affect overall function and performance.
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Product Details

Housing/Frame

For Chicago Plenum (CP) or Insulated Ceiling (IC)

6 1/2"
6 1/2"
9 5/16"
10 1/16"
14 1/4" min - 26" max

6 1/2"
6 1/2"
9 5/16"
10 1/16"
14 1/4" min - 26" max

Trimmed

FIN-RW-NC.T

4 1/2"
3/8"
Ø1 1/2"
Ceiling Cutout
Ø1 7/8"
5/8"
(1" max)
24"
Recommended
Distance to the Wall

6 1/2"
6"

FIN-RW-CP/IC.T

6 1/2"
3/8"
Ø1 1/2"
Ceiling Cutout
Ø1 7/8"
5/8"
(1" max)
24"
Recommended
Distance to the Wall

6 1/2"
6"

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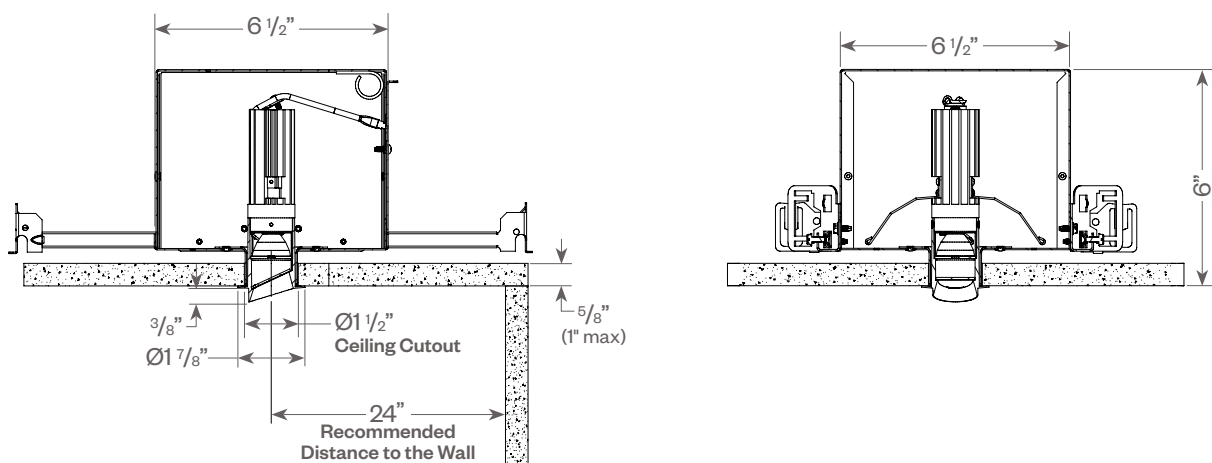
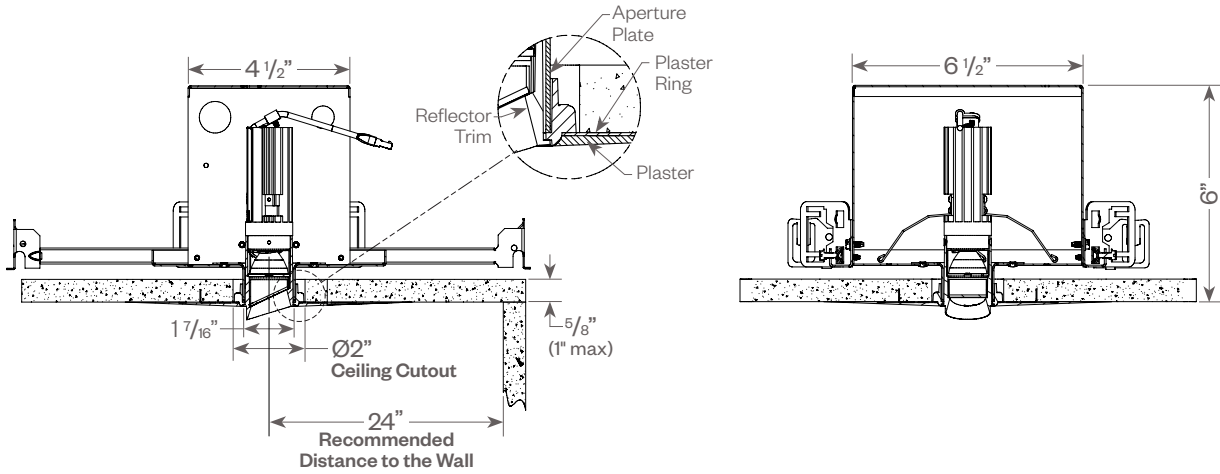**PROJECT:**   **TYPE:**

Product Details (continued)

Trimless

FIN-RW-NC.TL

Aperture Plate
Plaster Ring
Reflector Trim
Plaster

4 ¹/₂"
Reflector Trim
Aperture Plate
Plaster Ring
Plaster

1 ⁷/₁₆"
Ø2"
Ceiling Cutout

⁵/₈"
(1" max)

24"
Recommended Distance to the Wall

6 ¹/₂"
6"

Millwork

FIN-RW-NC.MWK

Aperture Plate
Reflector Trim
Wood Ceiling

4 ¹/₂"

1/16 Required for Trim to be flush with ceiling

1 ⁷/₁₆"
Ø1 ¹/₂"
Ceiling Cutout

⁵/₈"
(1" max)

24"
Recommended Distance to the Wall

6 ¹/₂"
6"

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Enclosure Options for Remote Driver

MP

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

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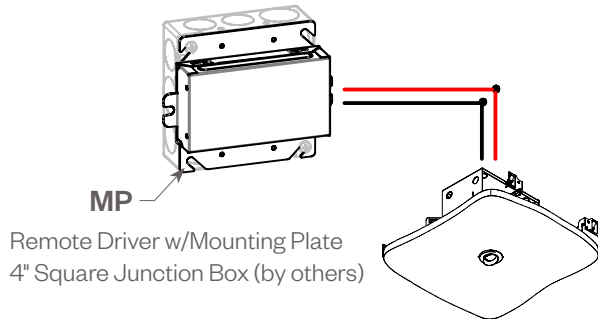9-11/16" x 4-5/16" x 2-7/16"

Remote Driver Box (**RBX2**)
15-11/16" x 4-5/16" x 2-7/16"
(always includes two drivers)
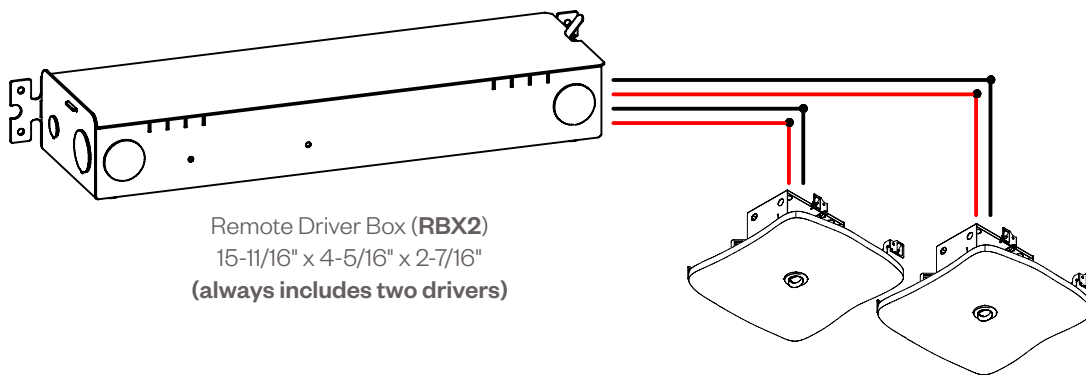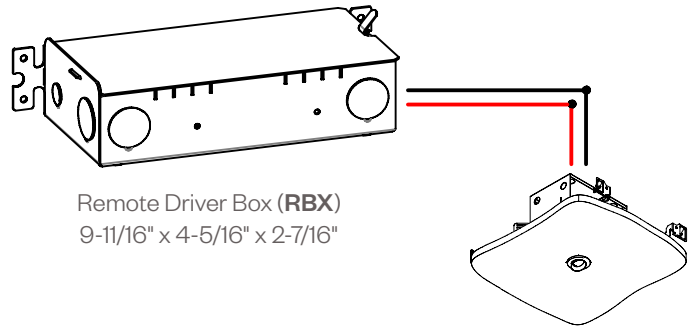
Note: Maximum remote wiring distance is 100 linear feet of 18 AWG wire and 50 linear feet of 22 AWG wire.

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PROJECT: **TYPE:**

Performance Data

Multiplying Factors:

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

Multiplying Factor is based on 3000K, 80+ 120V IES file on website.

12W, 3000K, 80+

LTL# 15016743.10
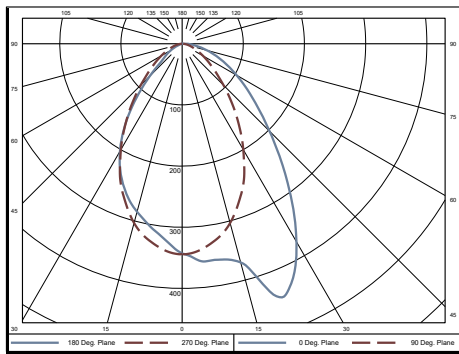
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-40	380	62.8
0-60	542	89.6
0-90	605	100.0
90-180	0	0.00

Luminaire Efficacy: 47.4 lm/W

Application Data

Application Data: **Footcandles on Wall**

Footcandles are average and rounded off.
Data for multiple units are based
on a minimum of five units.

1.5 Feet from Wall

1.5′ | 1.5′ | 1.5′ | 1.5′

Distance from ceiling									
0.5'	12	25	29	30	31	30	29	25	13
1.5'	22	41	50	52	53	52	50	41	23
2.5'	21	35	43	47	47	46	44	35	21
4.5'	15	23	28	31	32	31	29	24	15
5.5'	10	14	17	19	19	19	17	14	10
6.5'	7	9	11	12	12	12	11	9	7
7.5'	5	7	8	8	9	8	8	7	6

1.5 Feet from Wall

2′ | 2′ | 2′ | 2′

Distance from ceiling										
0.5'	11	22	22	24	22	24	22	24	22	22	13
1.5'	20	35	38	41	40	41	39	41	38	35	21
2.5'	19	30	34	36	36	37	36	36	34	30	19
3.5'	13	19	22	24	25	25	25	24	23	19	14
4.5'	9	12	14	15	16	16	16	15	14	12	9
5.5'	6	8	9	10	10	10	10	10	9	8	6
6.5'	5	6	6	7	7	7	7	7	7	6	5
7.5'	4	4	5	5	6	6	6	6	5	5	4

2 Feet from Wall

2′ | 2′ | 2′ | 2′

Distance from ceiling										
0.5'	8	12	13	14	14	15	14	14	14	12	8
1.5'	15	23	26	28	28	28	28	28	26	23	15
2.5'	16	24	28	30	31	31	31	31	29	24	17
3.5'	14	19	23	25	26	26	26	25	23	20	14
4.5'	11	14	17	18	19	19	19	18	17	14	11
5.5'	8	10	12	13	13	14	13	13	12	10	8
6.5'	6	7	8	9	9	10	10	9	8	7	6
7.5'	5	5	6	7	7	7	7	7	6	5	5

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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

0-10V Wiring Diagram

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!
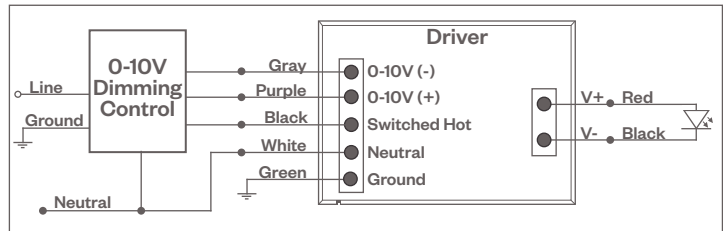
Compatible Dimmers†:

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
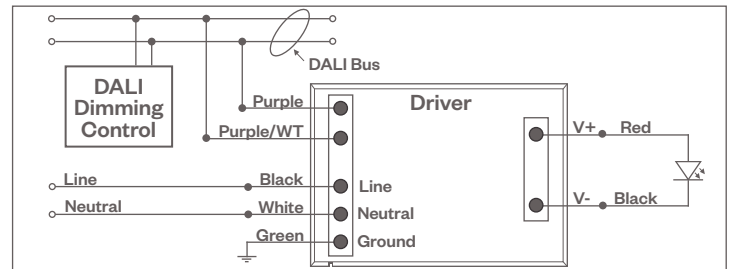
DALI Wiring Diagram

Notes:
- 120VAC or 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

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.

TRIAC Wiring Diagram

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
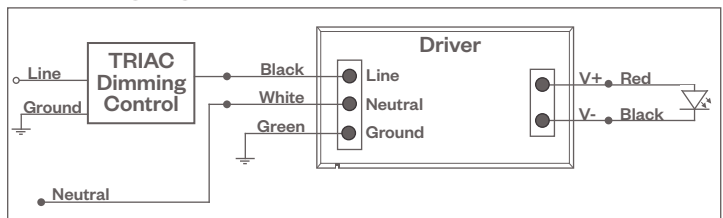
Compatible Dimmers†:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

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 manufacturer 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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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 ---
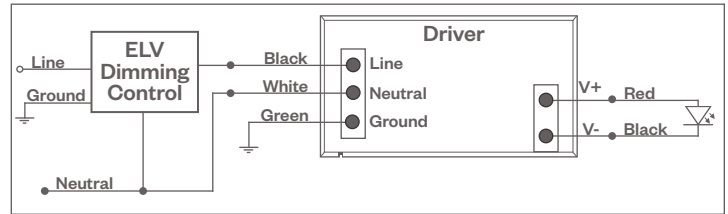
ELV - Electronic Low Voltage (Reverse Phase) DIMMING
Utilizes specialized "ELV" dimmers.

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

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"		

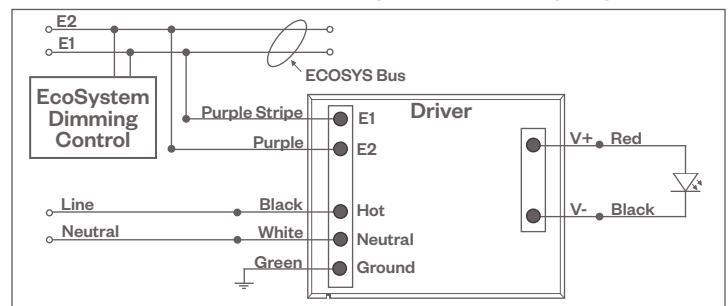### LUTRON LDE1 DIMMING
Integrates into Lutron EcoSystem building management

Notes:
- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- 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 manufacturer 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.