F1NCH
collection

1" Square Downlight

amerlux

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.

FIN-SD
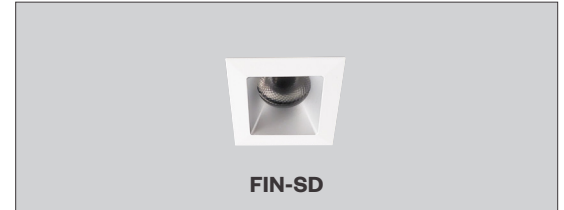
Product Overview

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

CSA c us

5 year limited warranty
AMERLUX LED

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

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.

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PROJECT:	TYPE:

1" Recessed Square Downlight Housing/Frame Ordering Information

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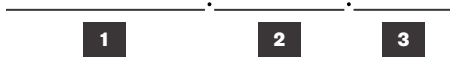
1	Model	2	Style	3	Options/Accessories
	FIN-SD-NC _(non-IC)_		**T** trimmed		**HB49** - hanger bars from min 29" to max 49"
	FIN-SD-CP _(Chicago Plenum (CCEA), 10W max)_		**TL** trimless		_Note: 26" hanger bars are included as standard._
	FIN-SD-IC _(Insulated Ceiling/air tight, 10W max)_		**MWK** millwork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

1" Recessed Square Downlight Trim Ordering Information

_____ . _____ . _____ . _____ . _____ . _____
1   **2**   **3**   **4**   **5**   **6**

1	Model	2	Style	3	Finish		4	Beam Spread
	FIN-SD downlight		**T** trimmed		<u>Trimmed</u>	<u>Trimless/Millwork</u>		**SP** spot, 18°
	FIN-SSHW shower _(available for use with trimmed (T) style only)_		**TL** trimless		**MBW** matte black, white flange	**MB** matte black		**FL** flood, 28°
			MWK millwork		**MWW** matte white, white flange	**MW** matte white		**WF** wide flood, 34°
					SLVW matte silver, white flange	**SLV** matte silver		**VWF** very wide flood, 52°
					MBB matte black, black flange	____ other _(RAL#, consult factory for lead time)_		
					SLVS matte silver, silver flange			
					_____ other _(RAL#, consult factory for lead time)_			

5	Color Temp and CRI			6	Options/Accessories
	<u>80+ CRI</u>	<u>90+ CRI</u>			**SOL** solite beam softening lens _(comes standard with RSHW trim)_
	30 3000K, 80+	**249** 2400K, 90+			**HEX** hexcell louver _(not available for use with RSHW trim)_
	35 3500K, 80+	**279** 2700K, 90+			**LS** linear spread lens 10°x60°
	40 4000K, 80+	**309** 3000K, 90+			
		359 3500K, 90+			
		409 4000K, 90+			

Remote Driver Ordering Information

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

1	Model	2	Wattage	3	Driver	4	Driver Enclosure Options
	FINPW		**6** 6W _(623 lm)_		**0-10V** 0-10V dimming, 1% dim, 120/277VAC		**MP** mounting plate _(standard)_
			8 8W _(789 lm)_		**DALI** DALI dimming, 1% dim, 120/277VAC		**RBX** remote box _(1 driver)_
			10 10W _(914 lm)_		**LE/TE** TRIAC/ELV dimming, 5% dim, 120/277VAC		**RBX2** 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)_		

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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
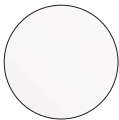Chicago Plenum *(optional)*
IC/AT rated *(optional)*
Damp location

Warranty
5 year limited warranty

Finish Options

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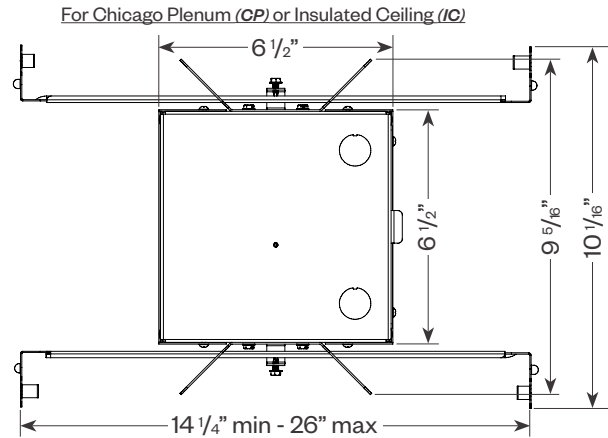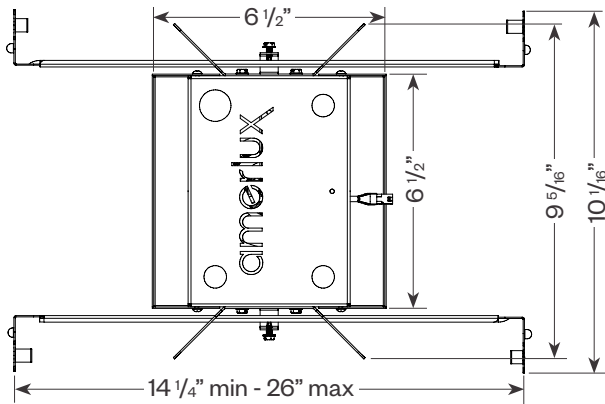Consult factory for custom finishes.
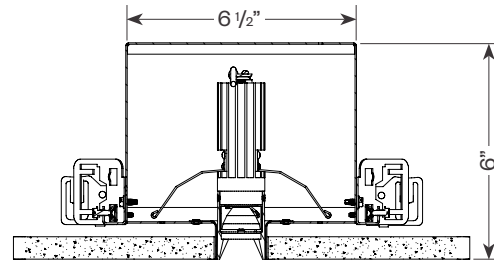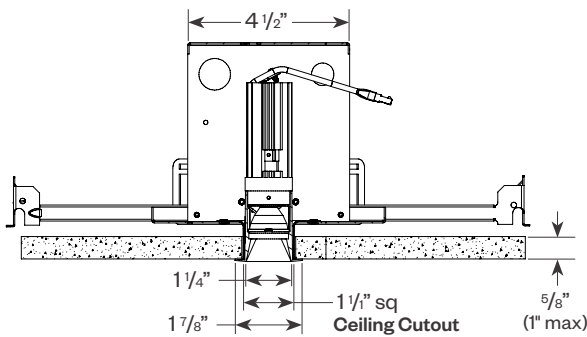
Matte Black   Matte White   Matte Silver

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PROJECT: **TYPE:**

Product Details - Trimmed

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-SD-NC.T

4 1/2"
6 1/2"
6"
1 1/4"
1 7/8"
1 1/1" sq
Ceiling Cutout
5/8"
(1" max)

FIN-SD-CP/IC.T

6 1/2"
6 1/2"
6"
1 1/4"
1 7/8"
1 1/1" sq
Ceiling Cutout
5/8"
(1" max)

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PROJECT: **TYPE:**

Product Details - Trimless and Millwork

Trimless

FIN-SD-NC.TL

Aperture Plate
Reflector Trim
Plaster Ring
Plaster

4 1/2"
6 1/2"
6"
1 1/4"
1 7/16"
Ø2"*
Ceiling Cutout
5/8" (1" max)
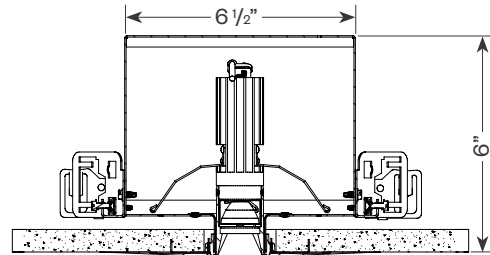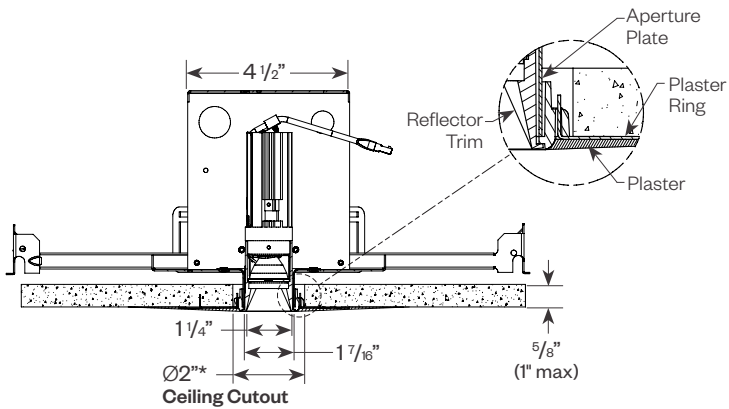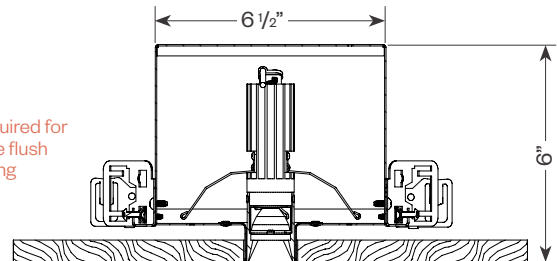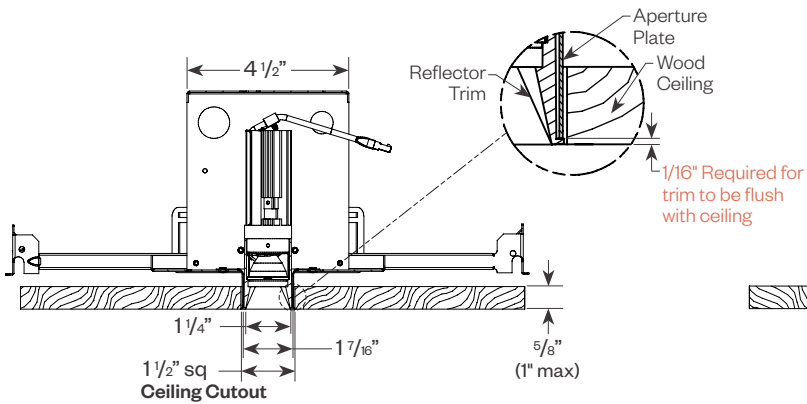
Note: Round cutout will work for this application.

Millwork

FIN-SD-NC.MWK

Aperture Plate
Reflector Trim
Wood Ceiling

1/16" Required for trim to be flush with ceiling

4 1/2"
6 1/2"
6"
1 1/4"
1 7/16"
1 1/2" sq
Ceiling Cutout
5/8" (1" max)

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PROJECT: **TYPE:**

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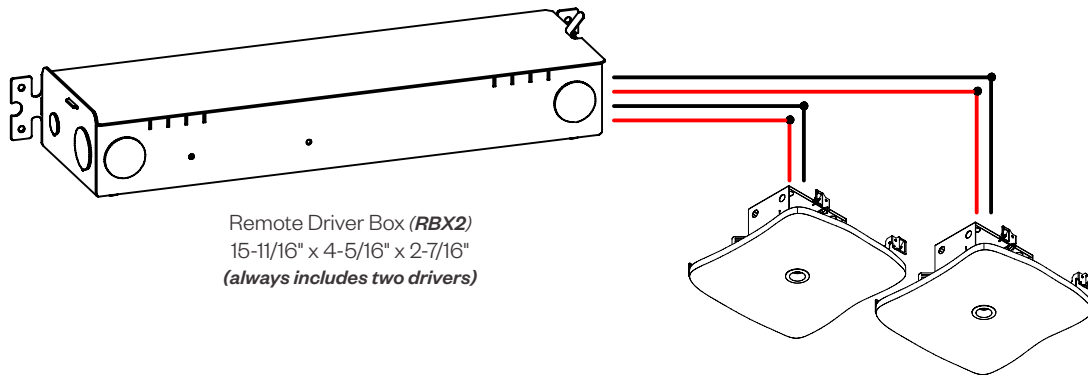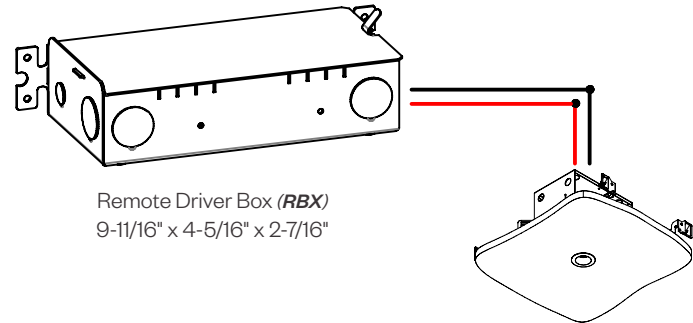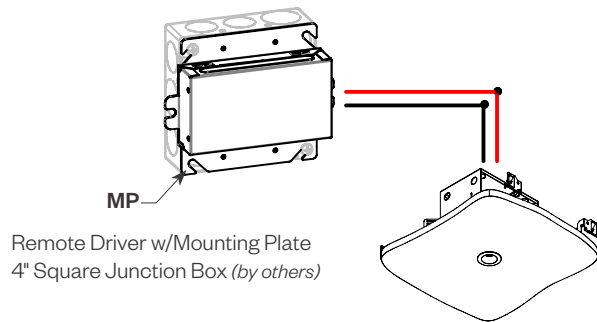
Note: Maximum remote wiring distance is 100 linear feet of 18 AWG wire and 50 linear feet of 22 AWG wire.

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1" Square Downlight
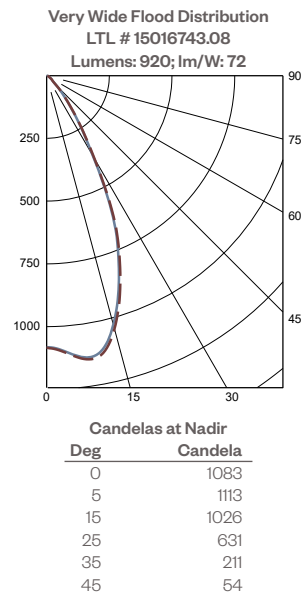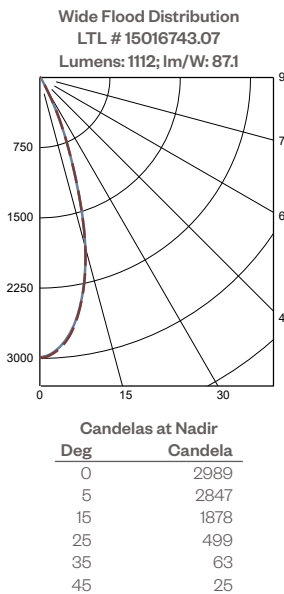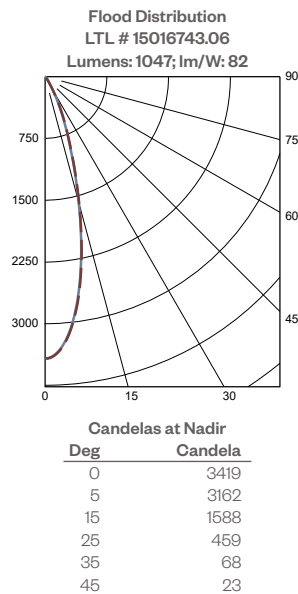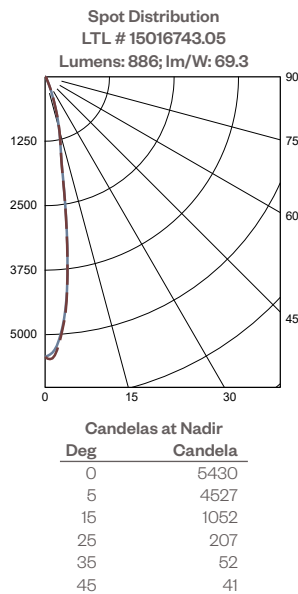
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PROJECT:	TYPE:

Performance Data

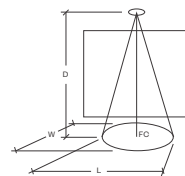**Multiplying Factors:** *(Multiplying Factor is based on 3000K, 80+, 120V IES file on website)*

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+

Spot Distribution
LTL # 15016743.05
Lumens: 886; lm/W: 69.3

Candelas at Nadir

Deg	Candela
0	5430
5	4527
15	1052
25	207
35	52
45	41

Flood Distribution
LTL # 15016743.06
Lumens: 1047; lm/W: 82

Candelas at Nadir

Deg	Candela
0	3419
5	3162
15	1588
25	459
35	68
45	23

Wide Flood Distribution
LTL # 15016743.07
Lumens: 1112; lm/W: 87.1

Candelas at Nadir

Deg	Candela
0	2989
5	2847
15	1878
25	499
35	63
45	25

Very Wide Flood Distribution
LTL # 15016743.08
Lumens: 920; lm/W: 72

Candelas at Nadir

Deg	Candela
0	1083
5	1113
15	1026
25	631
35	211
45	54

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

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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

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
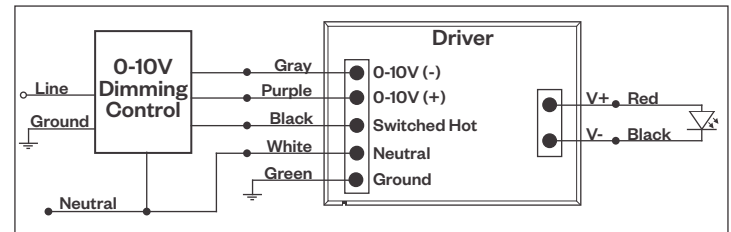
Compatible Dimmers†:		
Wall Box		**Central System**
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

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
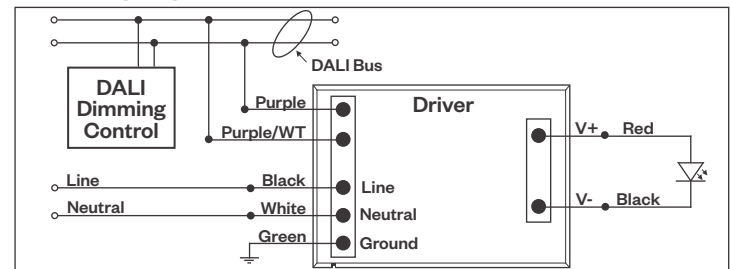
TRIAC *(Forward Phase)* DIMMING *(Standard)*
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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"	
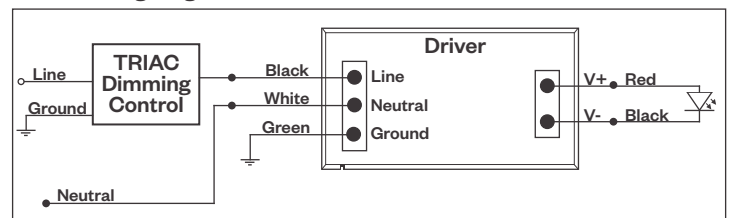
Notes:

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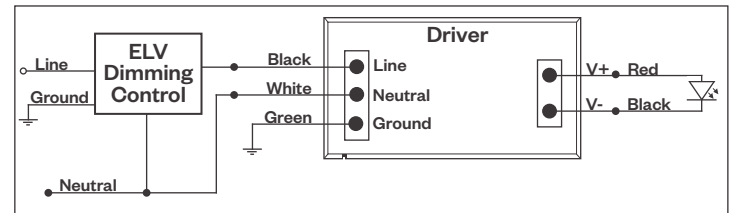
ELV - Electronic Low Voltage *(Reverse Phase)* DIMMING *(Standard)*
Utilizes specialized "ELV" dimmers.

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
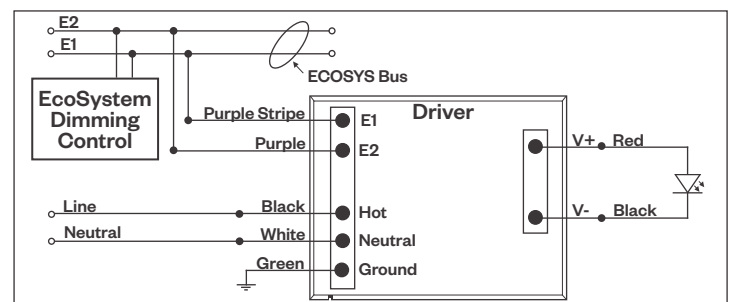Integrates into Lutron EcoSystem building management

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

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.

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