

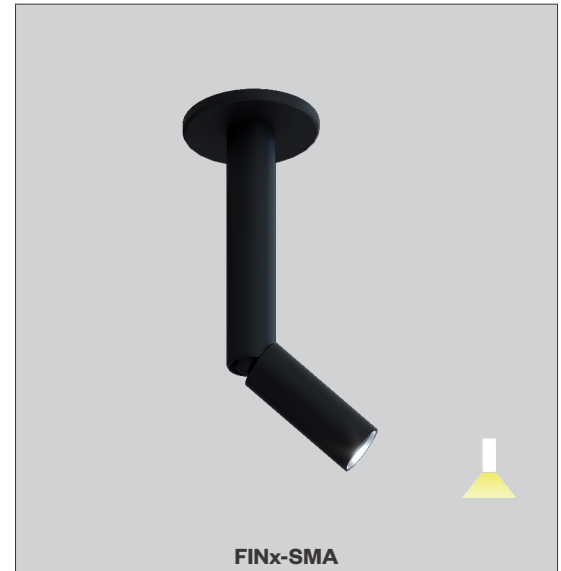
PROJECT:
TYPE:
Features

The Finch[®] family of cylinders with a 1" aperture, features exceptional output, flexibility, and a broad range of configurations to provide discreet quality illumination while integrating into the architecture. It is available in a fixed downlight, adjustable (*with 50° tilt*), wall mount and even exterior ground mount options. Whether installed on ceilings, walls/mullions or the ground, the Finch[®] family blends seamlessly into its surroundings.

The Finch[®] surface adjustable cylinder is available in lengths from 3" to 18," over a 1000 lm output and has a choice of beveled front door options for additional shielding. Maximum 50° tilt & 360° rotation for aiming flexibility. Use alone or in a composition to create a unique design.

Product Overview

Type: Surface Mount, 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	643	102.1	3000K	80+
8	787	93.7	3000K	80+
10	927	88.3	3000K	80+
12	1065	83.9	3000K	80+

Data is based on flood optic, standard bevel, 3000K, 80+ 120V IES file available on website.
 Consult ordering information and data for other wattages & beam spreads.

Electrical Data












	6W		8W		10W		12W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088	12.7	0.107
277V	6.7	0.034	8.6	0.038	10.7	0.044	12.8	0.051

Electronic constant current LED driver.

PROJECT:

TYPE:

STEP 1: 1" Surface Mount Adjustable Ordering Information

1	2	3	4	5	6	7	8	9
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spread	5 Body Finish	6 Bevel Finish	7 Door Style	8 Mounting	9 Options/Accessories
FIN3-SMA 3" FIN6-SMA 6" FIN9-SMA 9" FIN12-SMA 12" FIN18-SMA 18"	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 lm) 12 12W (1065 lm)	30 3000K, 80+ 35 3500K, 80+ 40 4000K, 80+ 249 2400K, 90+ 279 2700K, 90+ 309 3000K, 90+ 359 3500K, 90+ 409 4000K, 90+	SP spot, 15° FL flood, 28° WF wide flood, 35° VWF very wide flood, 50°	WT white texture  BT black texture  SLV matte silver  BRZ bronze  DBZ dark bronze  <i>For custom RAL finish, consult factory</i>	MW matte white  MB matte black  SLV matte silver  BRZ bronze  DBZ dark bronze  GLD gold  <i>For custom RAL finish, consult factory. Omit from nomenclature when ordering GLOW door style.</i>	SB standard bevel (1/4" recess) DB deep bevel (5/8" recess) GLOW frosted glow lens (1/2" drop)	F flush mount C canopy (Ø5") RC reduced canopy (Ø3-1/2") CDC conduit canopy (Ø4-1/8")	SOL solite beam softening lens HEX hexcell louver LS linear spread lens

STEP 2: Remote Driver Ordering Information

Amerlux offers a mounting plate (**MP**) for each remote driver with accessories for mounting in enclosure by others, or a single remote box for one driver (**RBX**), or a single remote box that can fit 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/Controls	4 Driver Enclosure
FINPW	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 lm) 12 12W (1065 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 (10W min)	MP mounting plate (1 driver) RBX remote box (1 driver) RBX2 remote box (2 drivers) Note: One wattage & dimming protocol per box.

For enclosure drawings & wiring schematics, see pages 6-8.

PROJECT:
TYPE:

Specifications

Application

Retail, commercial and hospitality ambient/task lighting

Construction

Extruded aluminum precision machined body, door & heatsink

Optical

TIR optics

 Beam Spreads: Spot 15°, Flood 28°, Wide Flood 35°,
 Very Wide Flood 50°

 Linear Spread Lens (LS) recommended for use with Spot beam
 spread for maximum linear effect.

LED

Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K

CRI: 80+ & 90+ typ.

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

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Finish

Powder coat paint

Consult factory for custom finishes

Mounting

Surface mount

Certifications

CSA tested to UL standards

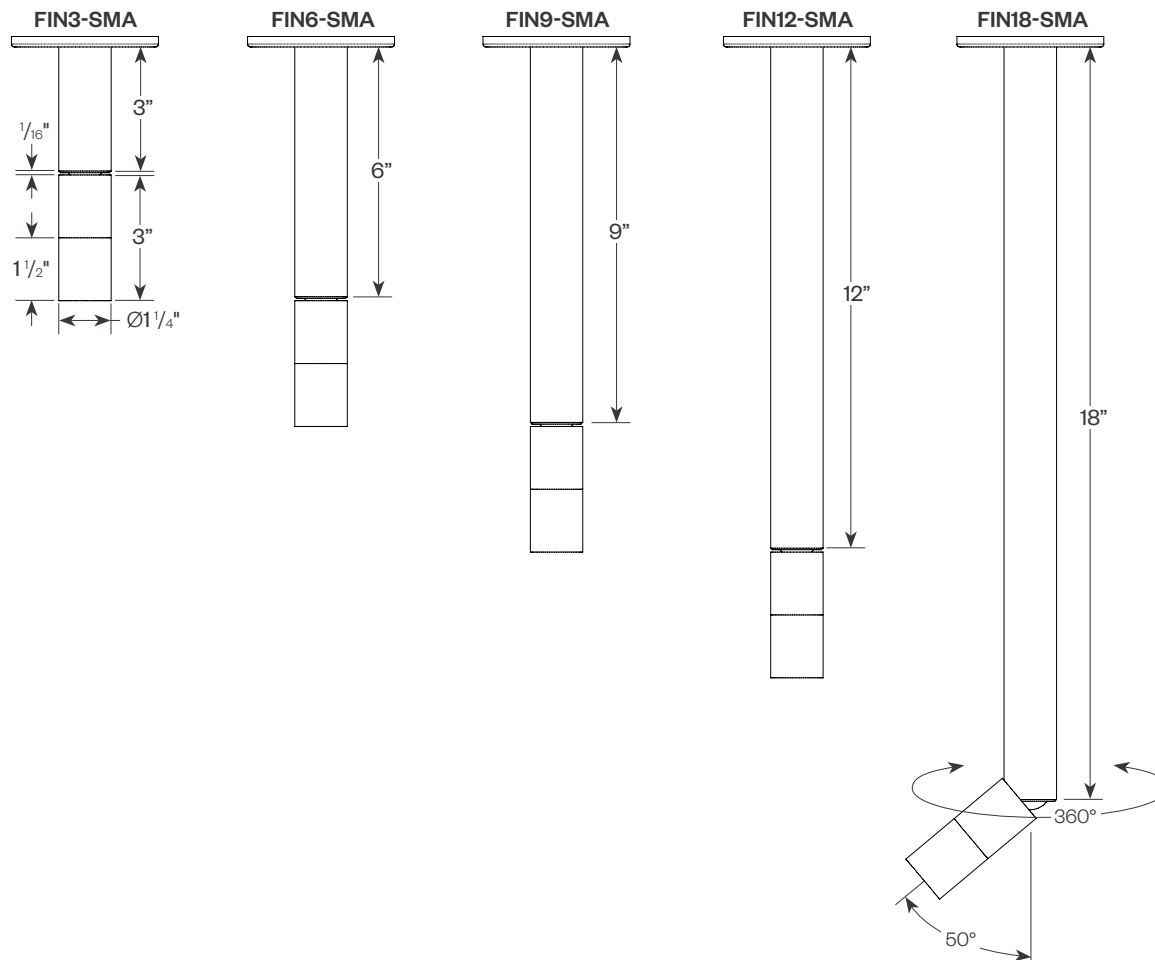
Indoor use only

Damp location

Warranty

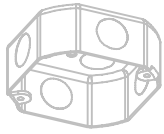
5 year limited warranty

Product Details



PROJECT:
TYPE:

Junction Box Mounting Requirements

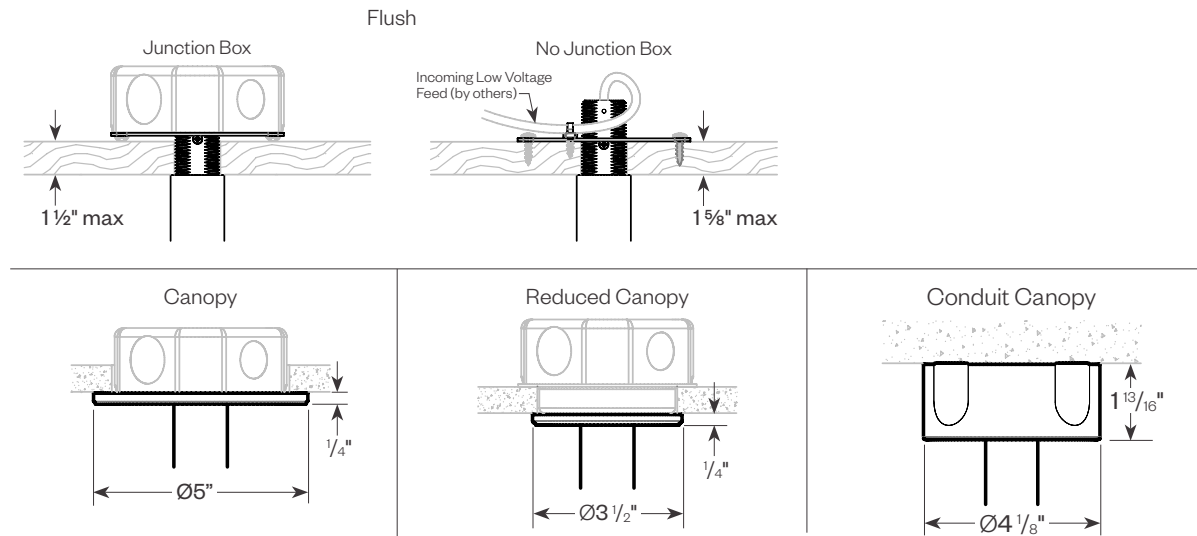


All Mounts Require 4" Octagonal
Junction Box *(by others)*

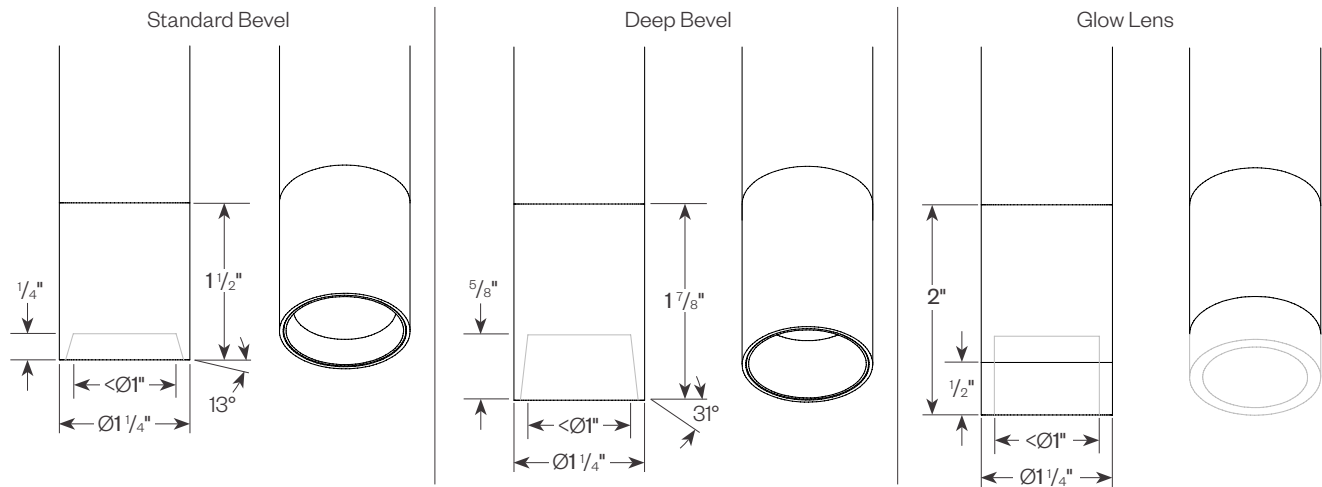


Reduced Canopy (**RC**) Mounts also
Require Raised Cover *(by others)* for
4" Octagonal Junction Box

Mounting Options



Door Styles



Finish Options

Powder coat paint. Consult factory for custom finishes.



Matte Black



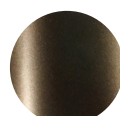
Matte White



Matte Silver



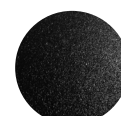
Bronze



Dark Bronze



White Texture



Black Texture



Gold
Available for
Bevel Finish only

PROJECT:
TYPE:

Performance Data

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

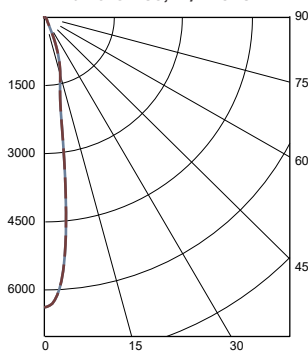
Wattage:	6W	8W	10W	12W	20W*
Factor:	0.44	.054	.064	0.73	1.0

* Multiplying factors based on an IES 20W tested fixture.
 20W is not available for this fixture type.

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

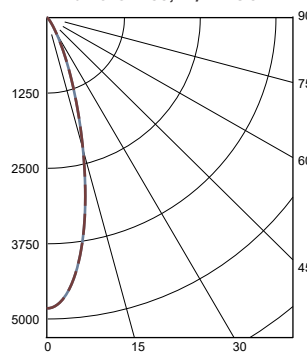
20W, Standard Bevel, 3000K, 80+

Spot Distribution
 LTL # 14815215.01A
 Lumens: 1130; lm/W: 57.3



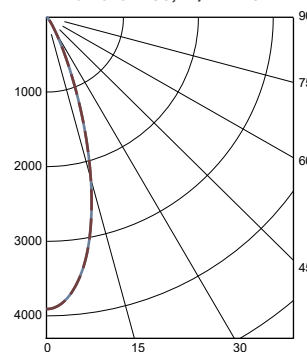
Candelas at Nadir	
Deg	Candela
0	6385
5	5036
15	1276
25	354
35	112
45	75

Flood Distribution
 LTL # 14815215.02A
 Lumens: 1459; lm/W: 73.9



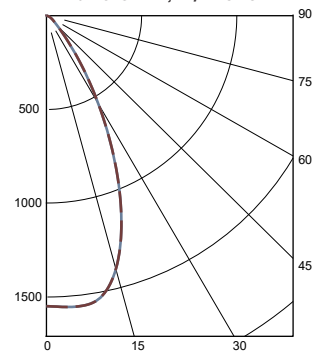
Candelas at Nadir	
Deg	Candela
0	4821
5	4439
15	2154
25	608
35	155
45	52

Wide Flood Distribution
 LTL # 14815215.03A
 Lumens: 1430; lm/W: 72.5



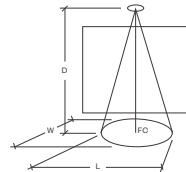
Candelas at Nadir	
Deg	Candela
0	3908
5	3714
15	2269
25	632
35	144
45	46

Very Wide Flood Distribution
 LTL # 14815215.04A
 Lumens: 1241; lm/W: 62.9



Candelas at Nadir	
Deg	Candela
0	1549
5	1558
15	1394
25	821
35	303
45	90

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'	158	1.9	1.9
7.5'	91	2.5	2.5
10.0'	57	3.0	3.0
12.5'	38	3.5	3.5

Flood

0° Aiming Angle
 Horizontal
 Footcandles

D	FC	L	W
5.0'	178	2.6	2.6
7.5'	85	3.6	3.6
10.0'	49	4.7	4.7
12.5'	31	5.8	5.8

Wide Flood

0° Aiming Angle
 Horizontal
 Footcandles

D	FC	L	W
5.0'	138	3.0	3.0
7.5'	66	4.3	4.3
10.0'	38	5.6	5.6
12.5'	25	7.0	7.0

Very Wide Flood

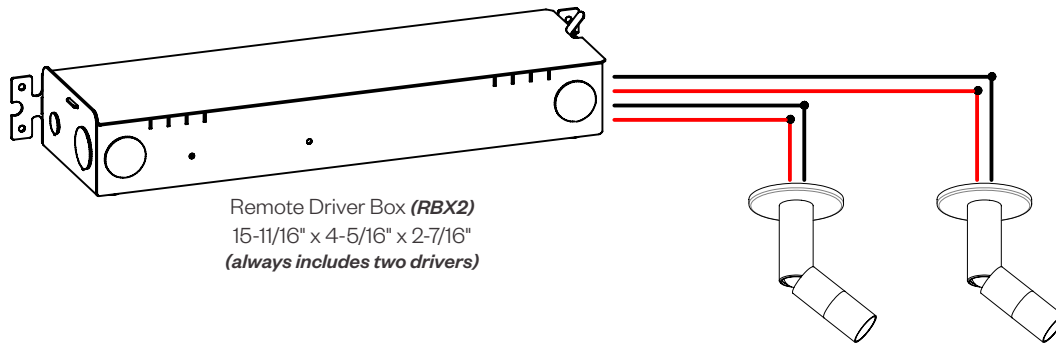
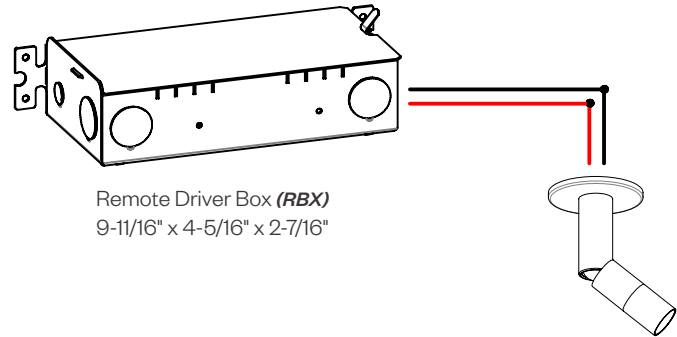
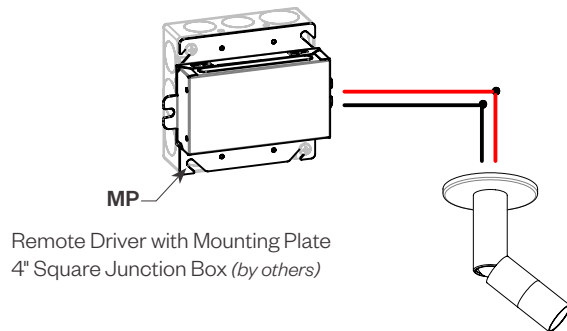
0° Aiming Angle
 Horizontal
 Footcandles

D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

PROJECT:

TYPE:

Enclosure Options for Remote Driver



Please see the example below when choosing the remote driver mounting or enclosure.

With 10 Finch[®] Cylinders, would be: 10 FINPW-MP, or 10 FINPW-RBX1, or 5 FINPW-RBX2

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

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 ---

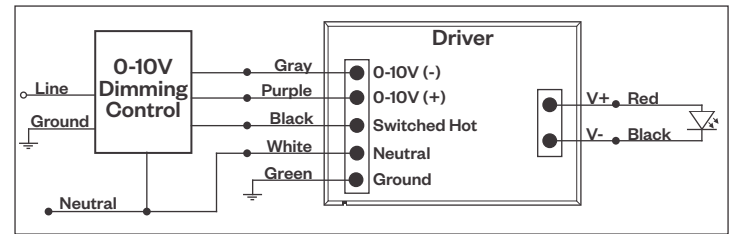
0-10V DIMMING

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)

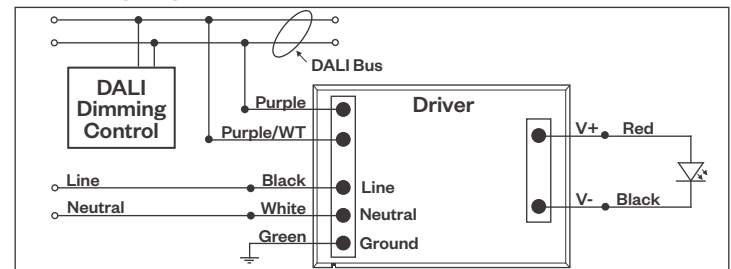
Leviton CD250 Controller

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"

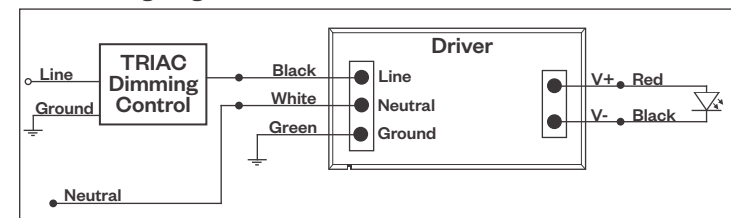
Lutron "Skylark"

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.

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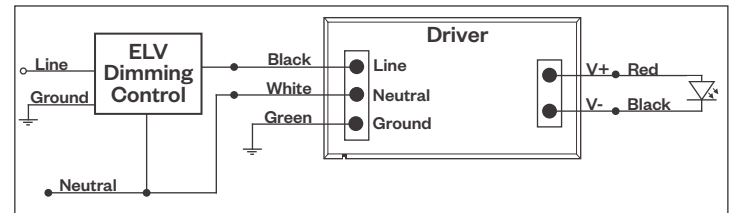
ELV - Electronic Low Voltage (*Reverse Phase*) DIMMING (*Standard*)

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

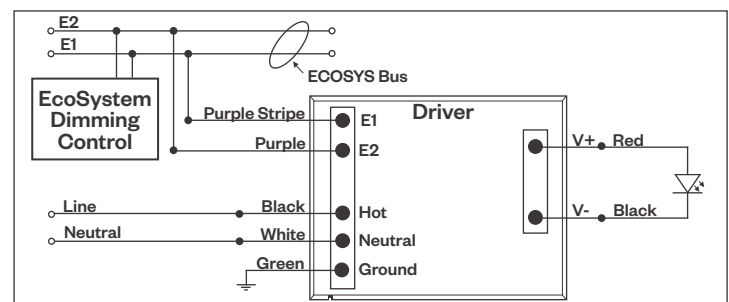
Notes:

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

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.