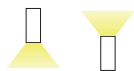




1" Wall Mount Cylinder,
Direct or Indirect



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 wall mount cylinder, 6" in length, offers up to 1000 lm output and has a choice of beveled front door options for additional shielding for the direct portion and a flush lens for the indirect portion, to prevent dust accumulation.

Product Overview

Type:	Wall Mount, Direct or Indirect
Wattage:	6W, 8W, 10W
Color Temp:	2400K, 2700K, 3000K, 3500K, 4000K
CRI:	80+ & 90+ typ.
Dimming:	0-10V, DALI, TRIAC/ELV, Lutron

PROJECT:

TYPE:

Performance Data

Watts	Lumens	LPW	CCT	CRI
6	643	102.1	3000K	80+
8	787	93.7	3000K	80+
10	927	88.3	3000K	80+

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

Electrical Data

	6W		8W		10W	
	Watts	Amps	Watts	Amps	Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088
277V	6.7	0.034	8.6	0.038	10.7	0.044

Electronic constant current LED driver














PROJECT:
TYPE:

To Order, please specify both the light fixture and remote driver.

Fixture Example: FIN6-WD.10.309.WF.BT.GLD.DB.RC.SOL

Remote Driver Example: FINPW.10.0-10V.MP

1" Wall Mount Direct or Indirect (with Remote Driver) Ordering Information

1	2	3	4	5	6	7	8	9
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spreads	5 Body Finish	6 Bevel Finish	7 Door Style	8 Mounting	9 Accessories
FIN6-WD 6" wall mount, direct FIN6-WI 6" wall mount, indirect	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 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>	<u>Direct</u> MW matte white  MB matte black  SLV matte silver  BRZ bronze  DBZ dark bronze  <i>For custom RAL finish, consult factory</i> GLD custom gold  <u>Indirect</u> Finish to match body finish	<u>Direct</u> SB standard bevel (1/4" recess) DB deep bevel (5/8" recess) <u>Indirect</u> SBX standard bevel with flush lens	MUL mullion mount (Ø2") C canopy (Ø5") RC reduced canopy (Ø3-1/2") CDC conduit canopy (Ø4-1/8")	SOL solite lens HEX hexcell louver LS linear spread lens

Remote Driver Ordering Information

Remote driver enclosures can be provided by others or can be specified below to your project requirements. Amerlux offers a mounting plate for each remote driver with accessories for mounting in enclosure by others, or a single remote box for one driver, or a single remote box that can fit two drivers. Electrical Contractor (EC) is responsible for adherence to all local codes.

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)	O-10V 0-10V dimming, 1%, 120/277VAC DALI DALI dimming, 1%, 120/277VAC LE/TE TRIAC/ELV dimming, 5%, 120/277VAC HILUME-H-ECO Lutron LDE1 Hi-lume® 1% Soft-On/ Fade-to-Black, 120/277VAC (10W only)	MP mounting plate RBX remote box (1 driver) RBX2 remote box (2 drivers) <i>Note: One wattage & dimming protocol per box.</i>

For enclosure drawings & wiring schematics, see pages 7-10. For Fixture with Integral Driver ordering, see page 3.












PROJECT:
TYPE:

To Order, please specify both the light fixture and transformer.

Fixture Example: FIN9-WD-48V.12.309.WF.BT.GLD.DB.RC.0-10V.SOL

Transformer Example: TR-48V100W

1" Wall Mount Direct or Indirect (with 48V Constant Voltage Integral Driver) Ordering Information

1	2	3	4	5	6	7	8	9	10
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spreads	5 Body Finish	6 Bevel Finish	7 Door Style	8 Mounting	9 Drivers/Controls	10 Accessories
FIN6-WD-48V 6" wall mount, direct FIN6-WI-48V 6" wall mount, indirect	6 6W (643 lm) 8 8W (787 lm) 10 10W (927 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>	<u>Direct</u> MW matte white  MB matte black  SLV matte silver  BRZ bronze  DBZ dark bronze  <i>For custom RAL finish, consult factory</i> GLD custom gold  <u>Indirect</u> Finish to match body finish	<u>Direct</u> SB standard bevel (1/4" recess) DB deep bevel (5/8" recess) <u>Indirect</u> SBX standard bevel with flush lens	MUL mullion mount (Ø2") C canopy (Ø5") RC reduced canopy (Ø3-1/2") CDC conduit canopy (Ø4-1/8")	0-10V 0-10V, 1% dim DALI DALI, 1% dim	SOL solite lens HEX hexocell louver LS linear spread lens

Transformer Ordering Information (to power Integral driver)

Amerlux offers 100W 48V DC constant current transformers with enclosure.

TR-48V100W

1
1 Model
TR-48V100W 100W, 48V transformer with enclosure, 120/277V input

For enclosure drawings & wiring schematics, see pages 7-10. For Fixture with Remote Driver ordering, see page 2.

PROJECT:
TYPE:
Specifications
Application

Retail, commercial and hospitality wall mounted accent 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°

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

Finish

Powder coat paint

Consult factory for custom finishes

Mounting

Wall mount

Certifications

CSA tested to UL standards

Indoor use only

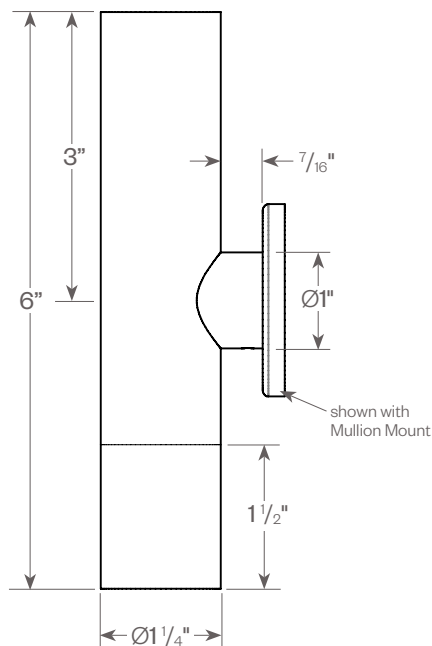
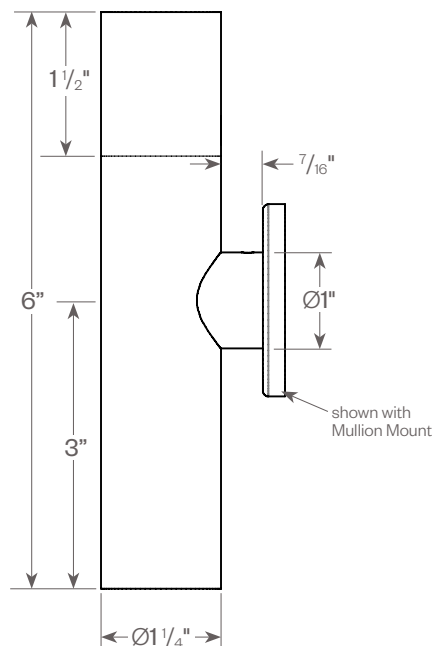
Damp location

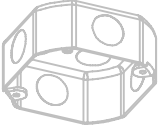
Warranty

5 year limited warranty

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.

FIN6-WD

FIN6-WI


PROJECT:
TYPE:
Junction Box Mounting Requirements


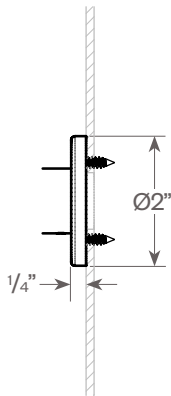
Canopy (C) & Conduit Canopy (CDC) Mounts
 Require 4" Octagonal Junction Box (by others)



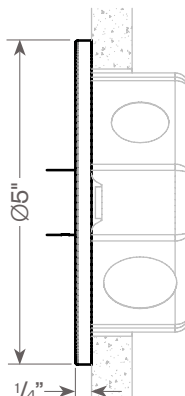
Reduced Canopy (RC) Mounts also
 Require Raised Cover (by others) for
 4" Octagonal Junction Box

Mounting Options

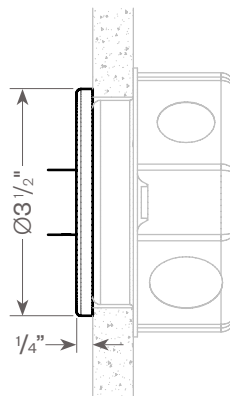
Mullion Mount



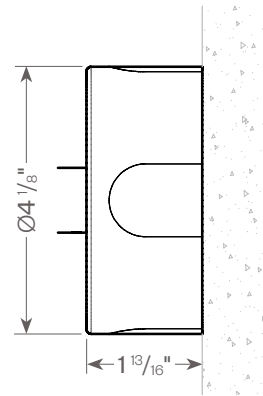
Canopy Mount



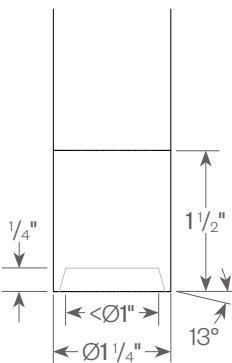
Reduced Canopy Mount



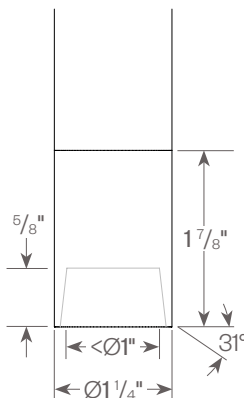
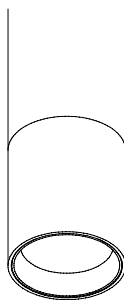
Conduit Canopy Mount


Door Styles

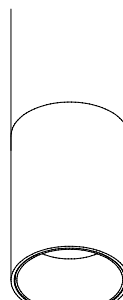
Direct



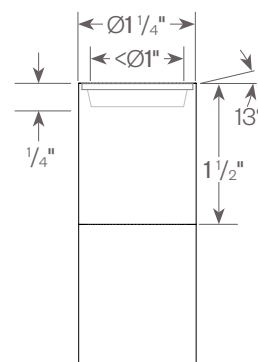
Standard Bevel (SB)



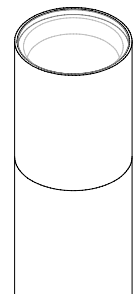
Deep Bevel (DB)



Indirect



Standard Bevel with flush lens (SBX)


Finish Options

Powder coat paint.

Consult factory for custom finishes.



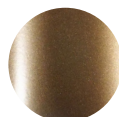
Matte Black



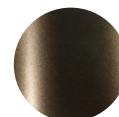
Matte White



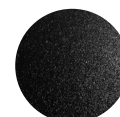
Matte Silver



Bronze



Dark Bronze



Black Texture



Custom Gold

Available for Bevel Finish only

PROJECT:
TYPE:
Fixture Data
MULTIPLYING FACTORS:

Wattage:	6W	8W	10W	20W
Factor:	0.44	0.54	0.64	1.0

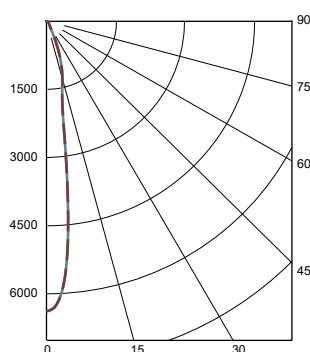
* Multiplying factors based on IES 20W tested fixture.
 20W is not available for this fixture type.

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

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

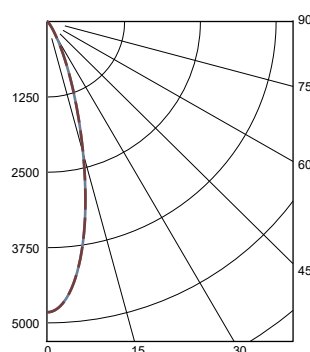
20W, Direct, Standard Bevel, 3000K, 80+

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



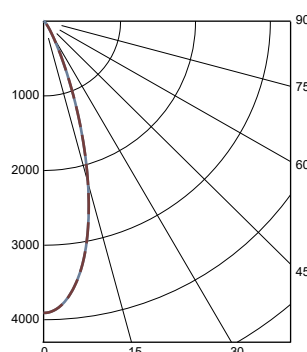
Candelas at Nadir	
Deg	Candela
0	6385
5	5036
15	1276
25	354
35	112
45	75

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



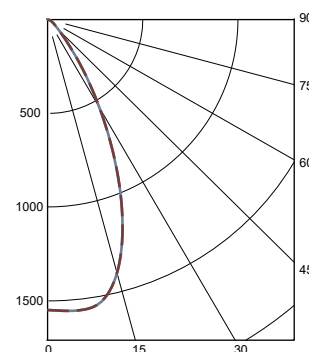
Candelas at Nadir	
Deg	Candela
0	4821
5	4439
15	2154
25	608
35	155
45	52

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).

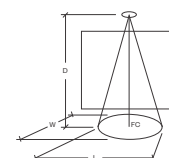
D=Distance to floor or wall.

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).

CB=Distance across or down to center beam location.


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

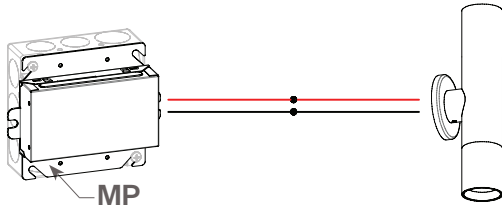

0° Aiming Angle
 Horizontal
 Footcandles

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

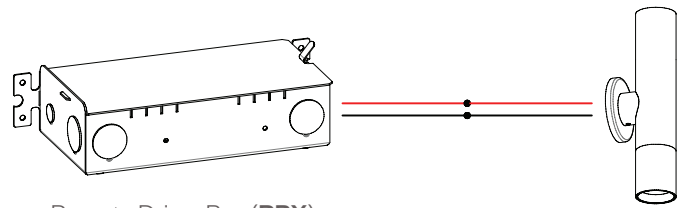
Very Wide Flood


0° Aiming Angle
 Horizontal
 Footcandles

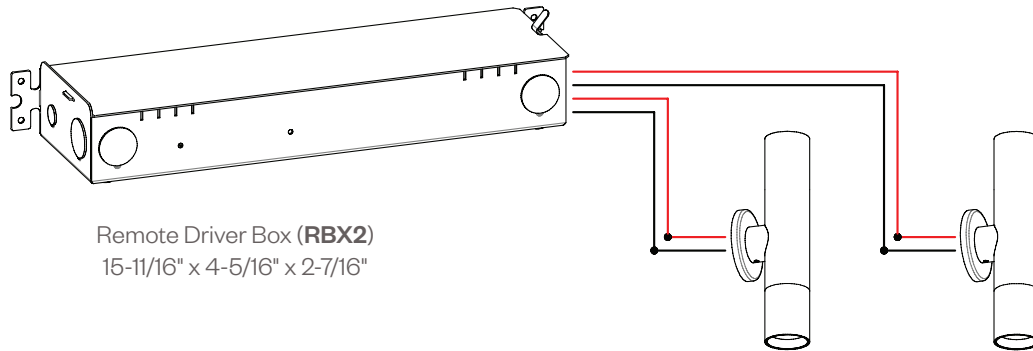
D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

PROJECT:
TYPE:
Power Supply Options for Remote Driver


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



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



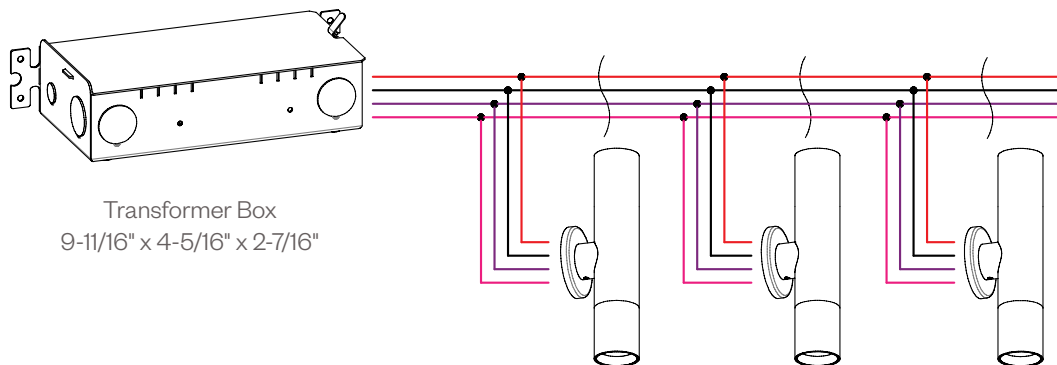
Remote Driver Box (RBX2)
 15-11/16" x 4-5/16" x 2-7/16"

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

With 10 Finch Cylinders, (fixed, adjustable, Wall Direct or Indirect) would be: 10 FINPW-MP, or 10 FINPW-RBX1, or 5 FINPW-RBX2

Power Supply Options for Integral Driver

TR-48V100W 100W, 48V transformer with enclosure, 120/277V input



Transformer Box
 9-11/16" x 4-5/16" x 2-7/16"

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.

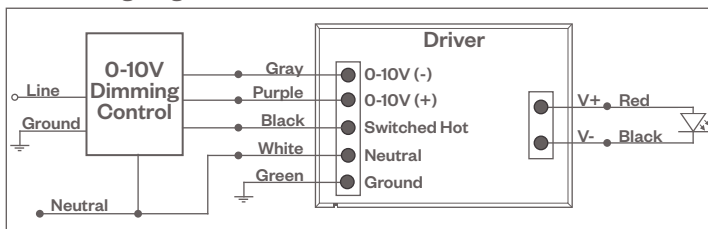
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

FOR REMOTE DRIVER OPTION
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 or 277VAC
- Dims down to 1% light output in most cases

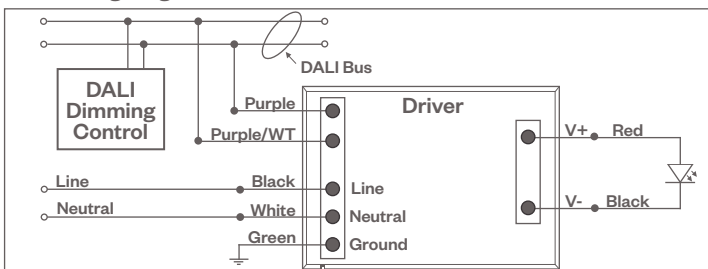
Compatible Dimmers*:
Wall Box (3-Wire Fluorescent)

Leviton CD250 Controller

Central System

Dynalite

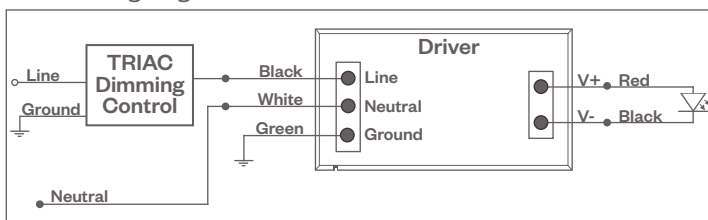
Fifth Light

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

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 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.

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 ---

FOR REMOTE DRIVER OPTION

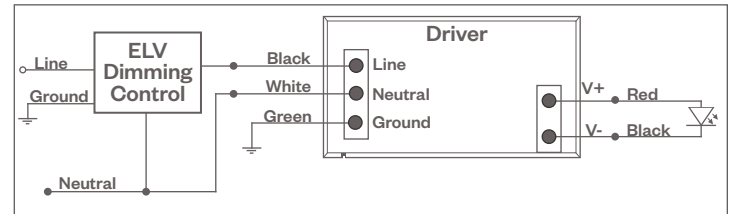
ELV - Electronic Low Voltage (Reverse Phase) DIMMING

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)

Lutron "Diva"
Lutron "Nova-T"
Lutron "Maestro"
Lutron "Skylark"
Leviton "Surslide"
Leviton "Vizio"

Wall Box (ELV 277VAC)

Leviton Revoir II AWSMT-E

Central System

Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron Grafik Eye QS with PHPM-PA 120/277VAC

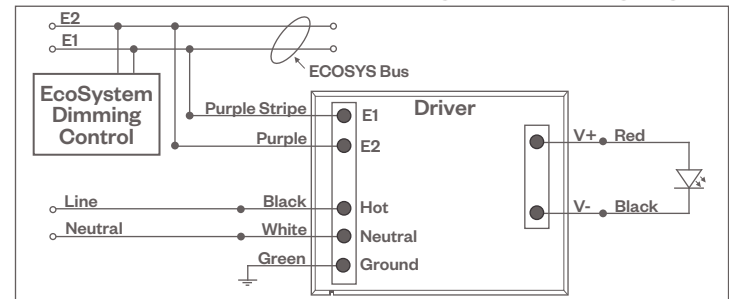
LUTRON LDE1 DIMMING

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!

Lutron LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



Compatible Dimmers†:

Lutron ECO System

Pow Pak Dimming Modules
Energi Savr Node
Grafik Eye QS/Homeworks
QS Control Unit
Quantum Hub
Homeworks QS/My Room

Central System

Lutron EcoSystem
compatible controls

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.

PROJECT:

TYPE:

DIMMING COMPATIBILITY:

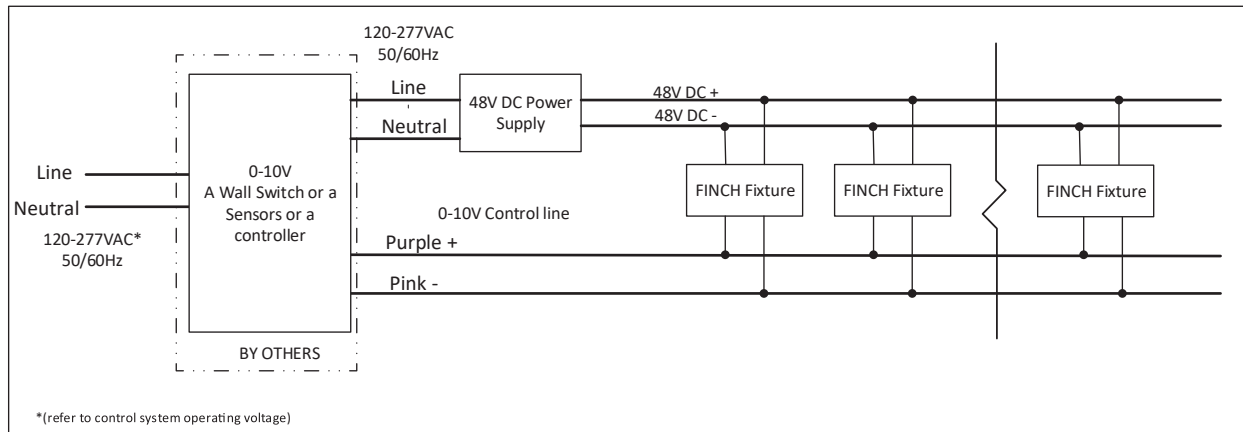
Amerlux® Finch fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

FOR INTEGRAL DRIVER OPTION (fed by 48V DC Power Supply/Transformer)

0-10V - DIMMING Integrates into a variety of building management and daylighting controls

0-10V Wiring Diagram



Notes:

- Dims down to 1% light output
- Consult dimming control manufacturer for the operational and installation instructions - DO NOT SHARE NEUTRALS

Compatible Dimmers*:

Wall Box

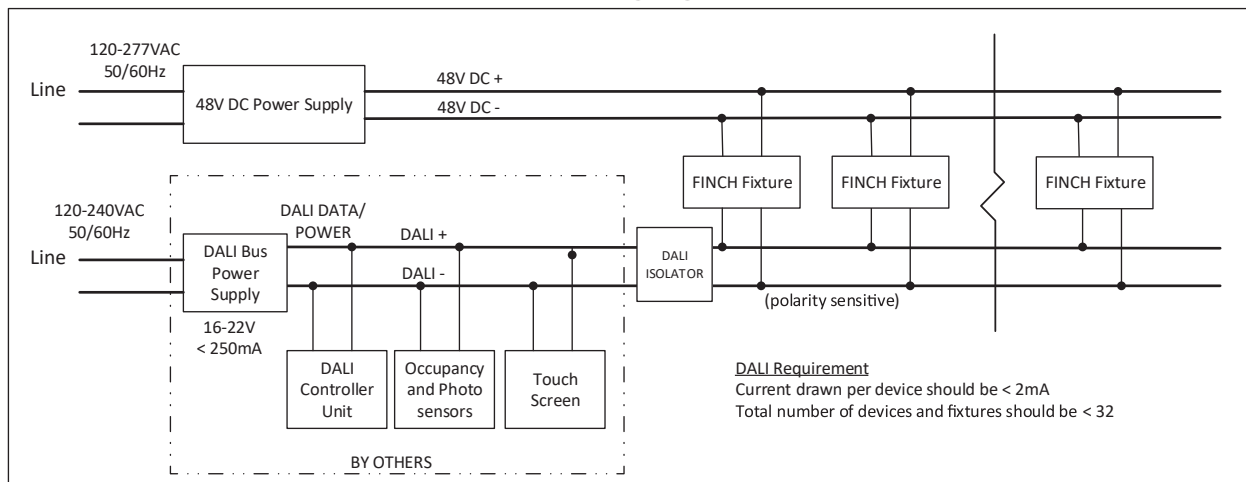
Lutron "Diva"
Leviton Renoir II 0-10V

Central System

Lutron Grafik Eye with GRX-TVI Interface

DALI DIMMING Digital control protocol allows individual fixture control

DALI Wiring Diagram



Suggested Switches for Wired Connection:

Manufacturer	Model	
Loytec DALI PSU	L-DALI-PWR2-U	DALI Bus Power Supply, 85-240VAC input, 2 channel DALI PSU, 116mA per channel
Loytec Controller	L-DALI-ME204-U	DALI Controller, 4 channel DALI
Loytec Controller	L-DALI-ME201-U	DALI Controller, 1 DALI channel with integrated DALI power supply
B.E.G	PP-DALI-PS	DALI Bus Power Supply, 120-277VAC input, 100mA bus power