

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.

The Exterior wall mount fixture offers up to 780 lumens with an option for either Integral or Remote driver. Fully sealed against the elements, this elegant cylinder offers a wide range of optics to provide the desired effects. Not only are the optics field replaceable, but optional accessories like hexcell louver or optical films can be installed or changed out as well.


Product Overview

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

Certifications

Fixture Summary
Performance Data

Watts	Delivered Lumens	LPW	Color Temp	CRI
6	643	102.1	3000K	80+
8	787	93.7	3000K	80+

Data is based on flood optic, 3000K, 80+ 120V IES file available on website..

Electrical Data (for Remote Driver option)

	6W		8W	
Voltage	System Watts	Amps	System Watts	Amps
120V	6.3	0.054	8.4	0.071
277V	6.7	0.034	8.6	0.038

Electronic constant current LED driver.

PROJECT:
TYPE:

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

Fixture Example: FIN6X-WD.8.309.WF.BT.RC.SOL Remote Driver Example: FINPW.8.0-10V.MP

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

1	2	3	4	5	6	7
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spread	5 Body Finish	6 Mounting	7 Accessories
FIN6X-WD 6" wall mount, direct FIN6X-WI 6" wall mount, indirect	6 6W (643 lm) 8 8W (787 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°	TBK textured black SLV matte silver BLK matte black BRZ bronze DBZ dark bronze <i>For custom RAL finish, consult factory</i>	MUL mullion mount (Ø2") C canopy (Ø5") RC reduced canopy (Ø3-1/2")	SOL solite lens HEX hexcell louver LS linear spread lens

Ordering Information - Remote Driver

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.

FINPW			
1	2	3	4
1 Model	2 Wattage	3 Drivers/Controls	4 Driver Enclosure
FINPW	6 6W (643 lm) 8 8W (787 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	MP mounting plate RBX remote box (1 driver) RBX2 remote box (2 drivers) Notes: 1. One wattage & dimming protocol per box. 2. Remote Box is NOT for wet locations. The box must be placed in a dry/damp location. If a wet location box is required, the MP option can be installed in a NEMA box supplied by others.

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: FIN6X-WD.48V.8.309.WF.BT.RC.0-10V.SOL Transformer Example: TR-48V100W

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

1	2	3	4	5	6	7	8
1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spread	5 Body Finish	6 Mounting	7 Drivers/Controls	8 Accessories
FIN6X-WD-48V 6" wall mount, direct FIN6X-WI-48V 6" wall mount, indirect	6 6W (643 lm) 8 8W (787 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°	TBK textured black SLV matte silver BLK matte black BRZ bronze DBZ dark bronze <i>For custom RAL finish, consult factory</i>	MUL mullion mount (Ø2") C canopy (Ø5") RC reduced canopy (Ø3-1/2") CDC conduit canopy (Ø4-1/8")	0-10V 0-10V dimming, 1% DALI DALI dimming, 1%	SOL solite lens HEX hexcell louver LS linear spread lens

Ordering Information - Transformer (to power integral driver)

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

TR-48V100W
1

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

Electrical (for Remote Driver)

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

Wall mount

Certifications

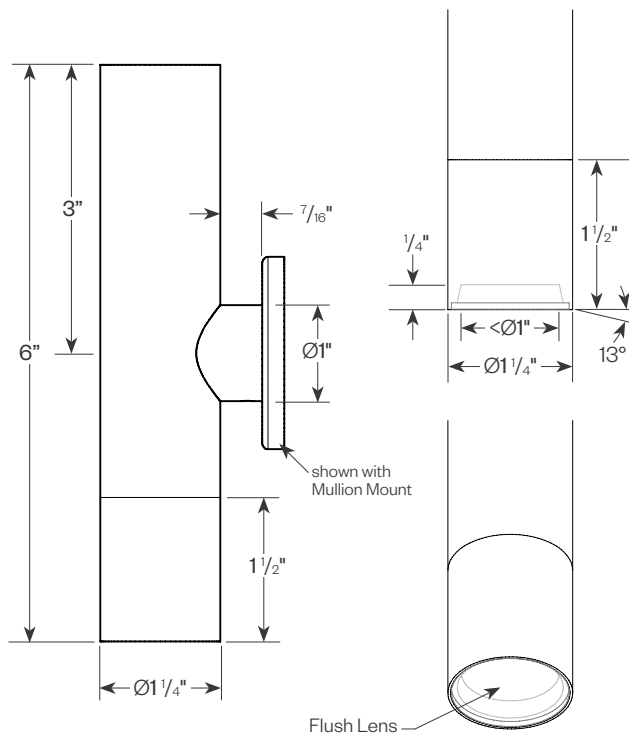
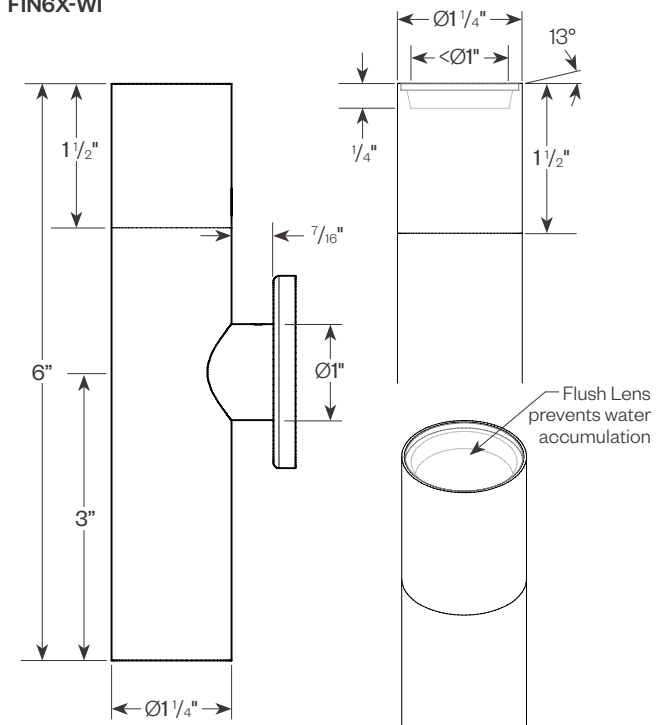
CSA tested to UL standards

Suitable for wet location

Warranty

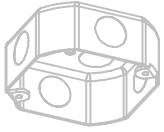
5 year limited warranty

Product Details

FIN6X-WD

FIN6X-WI


PROJECT:
TYPE:

Junction Box Mounting Requirements



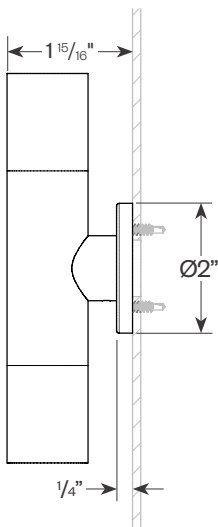
Canopy (C) & Conduit Canopy (CDC) Mounts
Require 4" Octagonal Junction Box (*by others*)



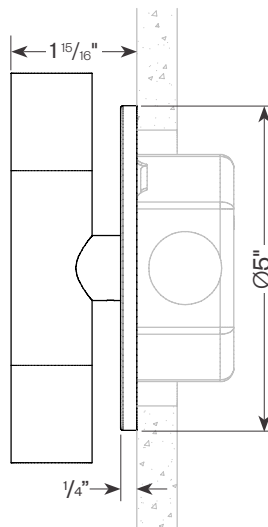
Reduced Canopy (RC) Mounts also Require Raised
Cover (*by others*) for 4" Octagonal Junction Box

Junction Box Mounting Requirements

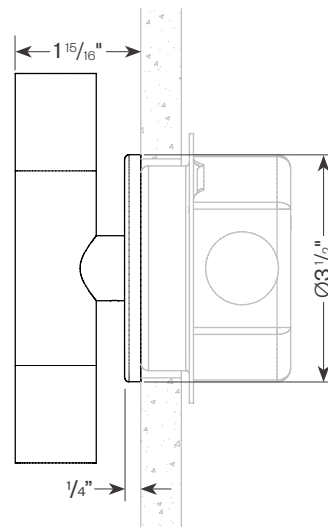
Mullion Mount



Canopy Mount



Reduced Canopy Mount



Finish Options

Powder coat paint.

Consult factory for custom finishes.



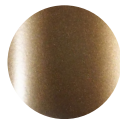
Textured Black



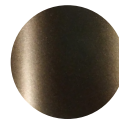
Matte Silver



Matte Black



Bronze



Dark Bronze

PROJECT:
TYPE:

Performance Data

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

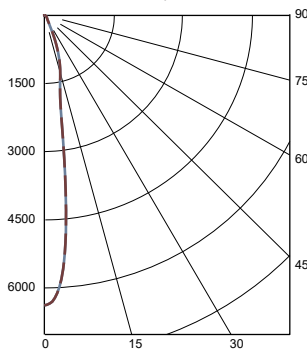
Wattage:	6W	8W	20W*
Factor:	0.44	0.54	1.0

* 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

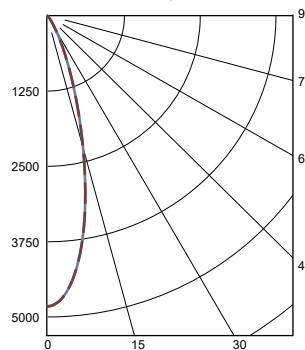
20W, 3000K, 80+

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



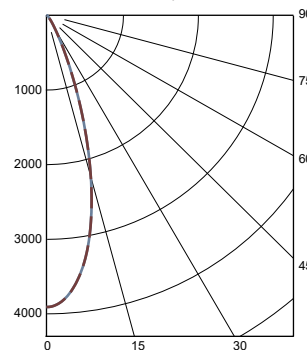
Candelas at Nadir	
Deg	Candela
0	6385
5	5036
15	1276
25	354
35	112
45	75

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



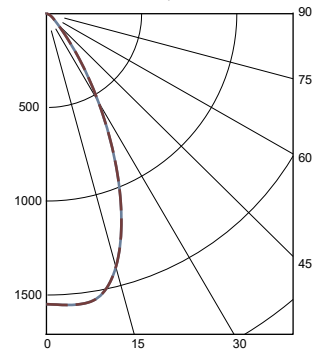
Candelas at Nadir	
Deg	Candela
0	4821
5	4439
15	2154
25	608
35	155
45	52

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:

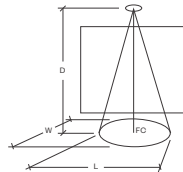
Beam spread is to 50% center beam candlepower (CBOP).

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

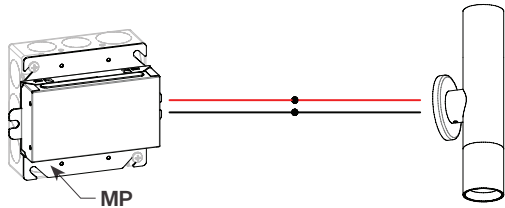
0° Aiming Angle
 Horizontal
 Footcandles

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

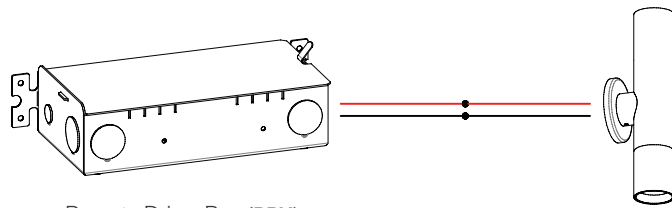
PROJECT:

TYPE:

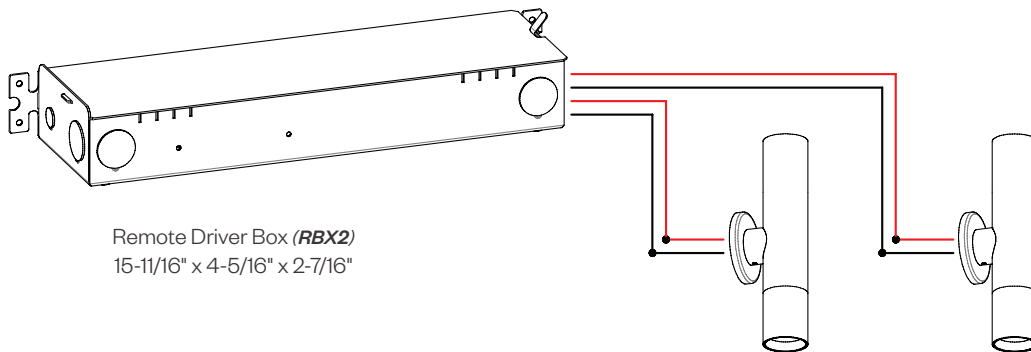
Power Supply Options for Remote Driver



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"

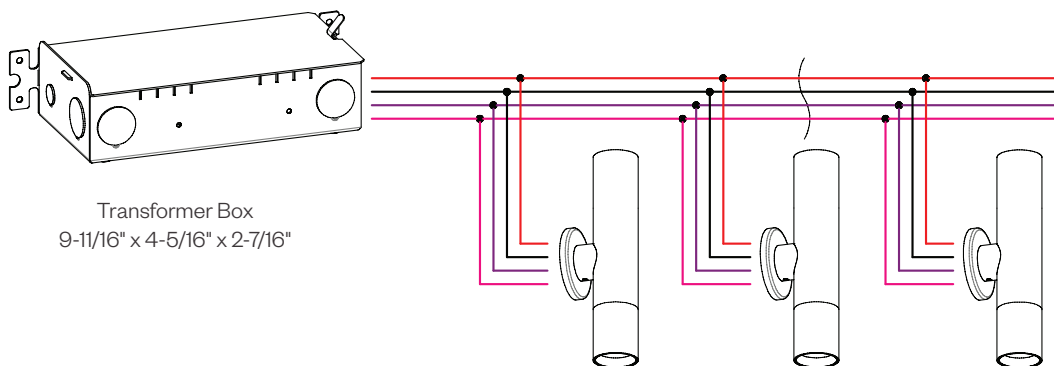
Please see the example below when choosing the remote driver mounting or enclosure.

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

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

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 - Remote Driver

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.

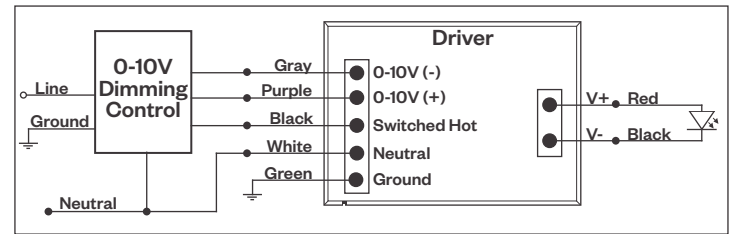
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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

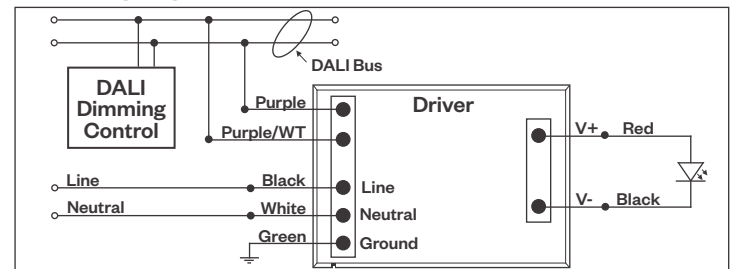
Digital control protocol allows individual fixture control

Notes:

- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

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

Leviton CD250 Controller	Dynalite
	Fifth Light

DALI Wiring Diagram

TRIAC (Forward Phase) DIMMING (Standard)

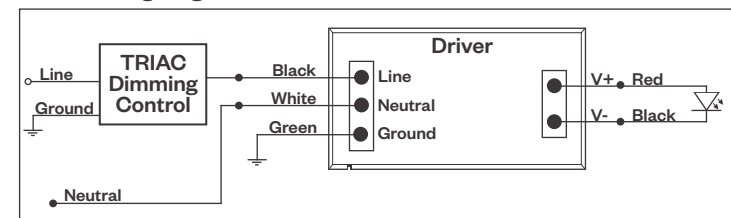
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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)
Central System

Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

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 - Remote Driver *(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.

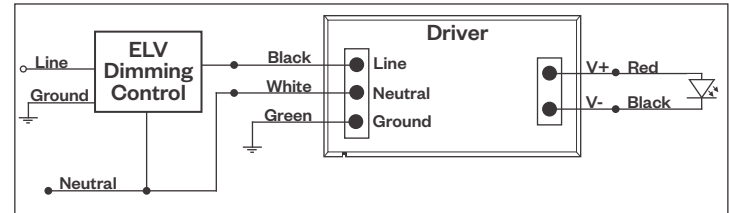
--- **NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY** ---

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"		

PROJECT:

TYPE:

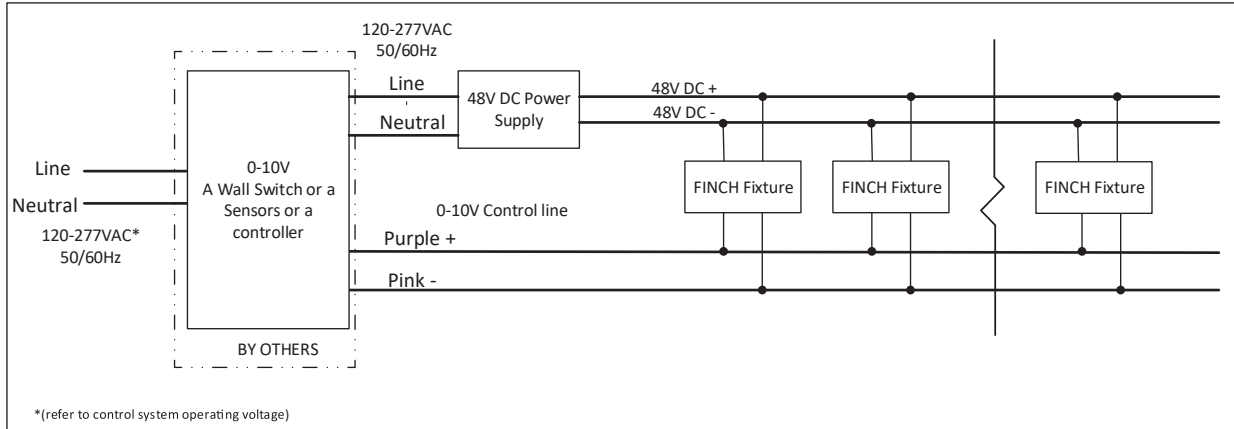
Dimming Compatibility - 48V Integral Driver

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



Compatible Dimmers*:

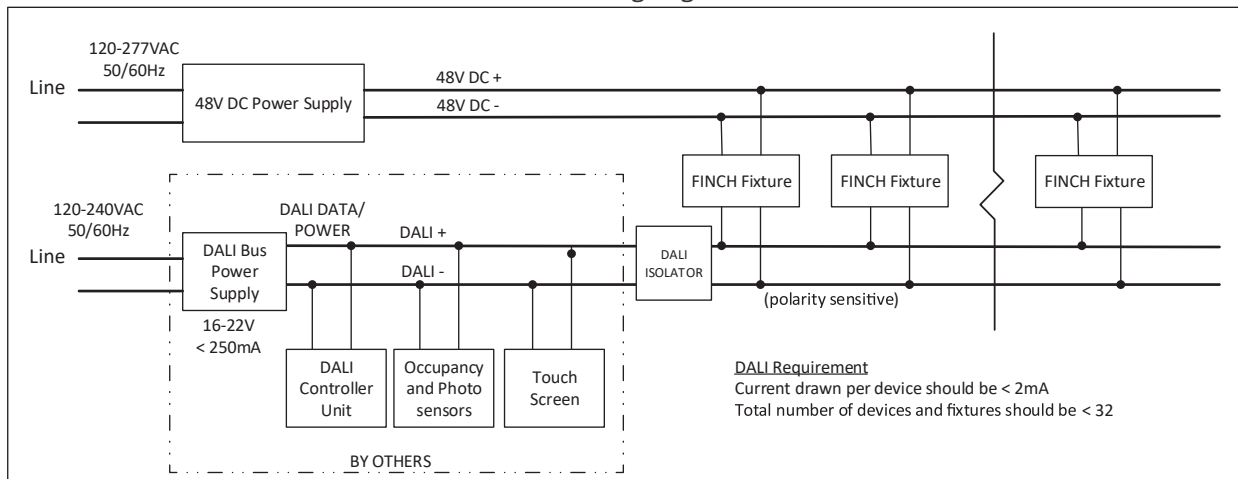
Wall Box	Central System
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface
Leviton Renoir II 0-10V	

Notes:

- Dims down to 1% light output
- Consult Dimming manufacturer for the operation and installation instructions **DO NOT SHARE NEUTRALS!**

DALI DIMMING Digital control protocol allows individual fixture control

DALI Wiring Diagram



DALI Requirement
Current drawn per device should be < 2mA
Total number of devices and fixtures should be < 32

Suggested Switches for Wired Connections:

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 eith integrated DALI power supply
B.E.G	PP-DALI-PS	DALI Bus Power Supply, 120-277VAC input, 100mA bus power