



## 1" Surface Mount Adjustable



### 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+ & 90+ typ.
Dimming:	0-10V, DALI, TRIAC/ELV, Lutron EcoSystem

### 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+
12	1065	83.9	3000K	80+

Data is based on flood optics, 120V, 3000K, 80+ IES files available on website.  
Consult ordering information and data for other sizes.

### Electrical Data

	6W		8W		10W		12W	
	Watts	Amps	Watts	Amps	Watts	Amps	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:**

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

Fixture Example: FIN9-SMA.12.309.WF.BT.GLD.DB.RC.SOL

Remote Driver Example: FINPW.12.0-10V.MP

**1" Surface Mount (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
FIN3-SMA 3"	6 6W (643 lm)	30 3000K, 80+	SP spot 15°	WT white texture 	MW matte white 	SB standard bevel (1/4" recess)	F flush mount	SOL solite lens
FIN6-SMA 6"	8 8W (787 lm)	35 3500K, 80+	FL flood 28°	BT black texture 	MB matte black 	DB deep bevel (5/8" recess)	C canopy (Ø5")	HEX hexcell louver
FIN9-SMA 9"	10 10W (927 lm)	40 4000K, 80+	WF wide flood 35°	SLV matte silver 	SLV matte silver 		RC reduced canopy (Ø3-1/2")	LS linear spread lens
FIN12-SMA 12"	12 12W (1065 lm)	249 2400K, 90+	VWF very wide flood 50°	BRZ bronze 	BRZ bronze 		CDC conduit canopy (Ø4-1/8")	
FIN18-SMA 18"		279 2700K, 90+		DBZ dark bronze 	DBZ dark bronze 			
		309 3000K, 90+		For custom RAL finish, consult factory				
		359 3500K, 90+			GLD custom gold 			
		409 4000K, 90+						

**Remote Driver Ordering Information**

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 (**RBX**), or a single remote box that can fit two drivers (**RBX2**). 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) 12 12W (1065 lm)	0-10V 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 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 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-SMA-48V.12.309.WF.BT.GLD.DB.RC.0-10V.SOL

Transformer Example: TR-48V100W

**1" Surface Mount (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-SMA-48V 6"	6 6W (643 lm)	30 3000K, 80+	SP spot 15°	WT white texture 	MW matte white 	SB standard bevel (1/4" recess)	F flush mount	0-10V 0-10V dimming, 1%	SOL solite lens
FIN9-SMA-48V 9"	8 8W (787 lm)	35 3500K, 80+	FL flood 28°	BT black texture 	MB matte black 		C canopy (Ø5")	DALI DALI dimming, 1%	HEX hexcell louver
FIN12-SMA-48V 12"	10 10W (927 lm)	40 4000K, 80+	WF wide flood 35°	SLV matte silver 	SLV matte silver 	DB deep bevel (5/8" recess)	RC reduced canopy (Ø3-1/2")		LS linear spread lens
FIN18-SMA-48V 18"	12 12W (1065 lm)	249 2400K, 90+	VWF very wide flood 50°	BRZ bronze 	BRZ bronze 		CDC conduit canopy (Ø4-1/8")		
		279 2700K, 90+		DBZ dark bronze 	DBZ dark bronze 				
		309 3000K, 90+		For custom RAL finish, consult factory					
		359 3500K, 90+							
		409 4000K, 90+			GLD custom gold 				

**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 &amp; wiring schematics, see pages 7-10. For Fixture with Remote Driver ordering, see page 2.

**PROJECT:**
**TYPE:**
**Specifications**
**Application**

Retail, commercial and hospitality ambient/task lighting

**Construction**

Extruded aluminum precision machined body, door &amp; 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+ &amp; 90+ typ.

R9 Values: 11 (83 CRI), 55 (92 CRI)

Binning: 3 MacAdam (SDCM)

Life: 50,000+ hrs, &gt; 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**

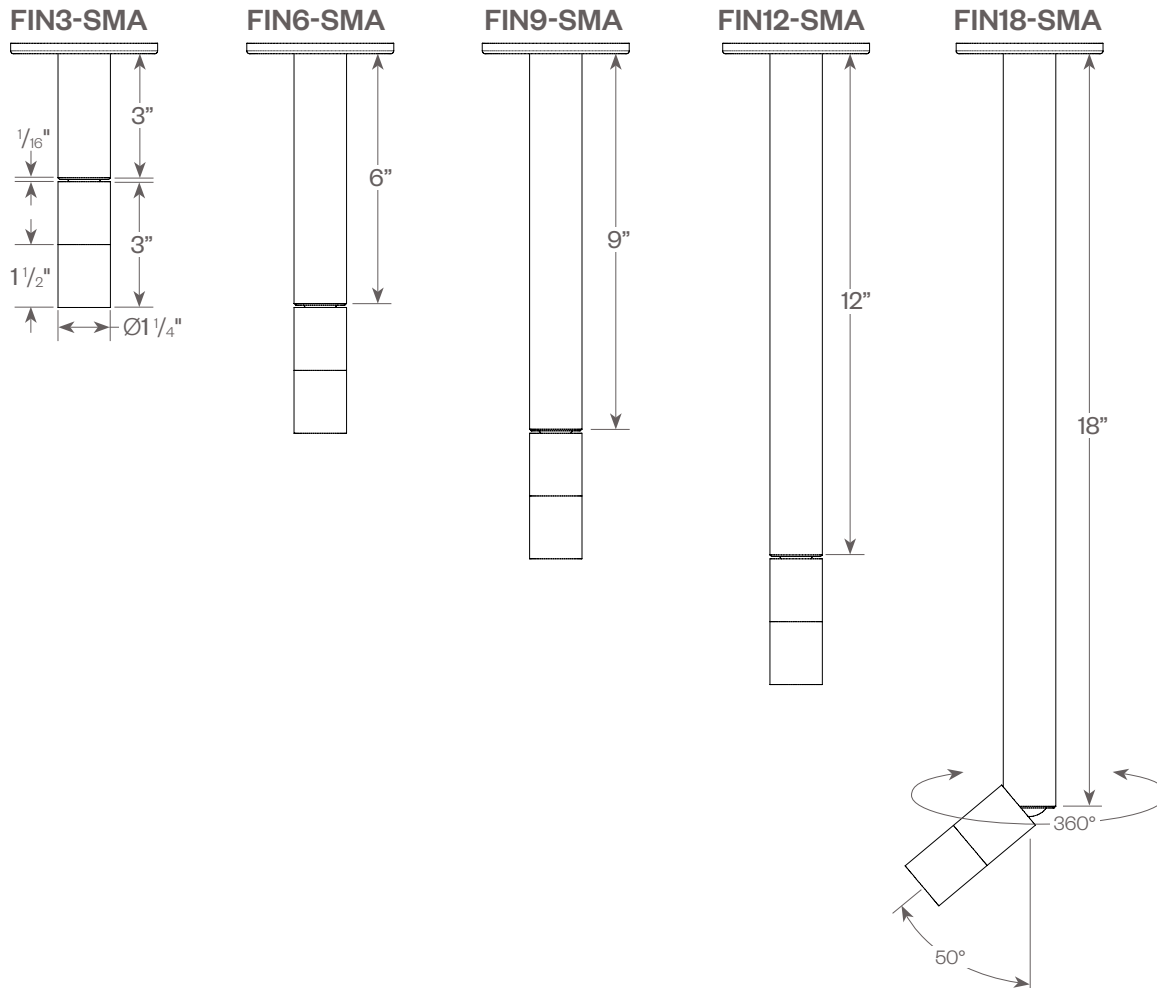
CSA tested to UL standards

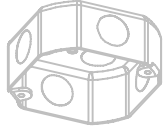
Indoor use only

Damp location

**Warranty**

5 year limited warranty

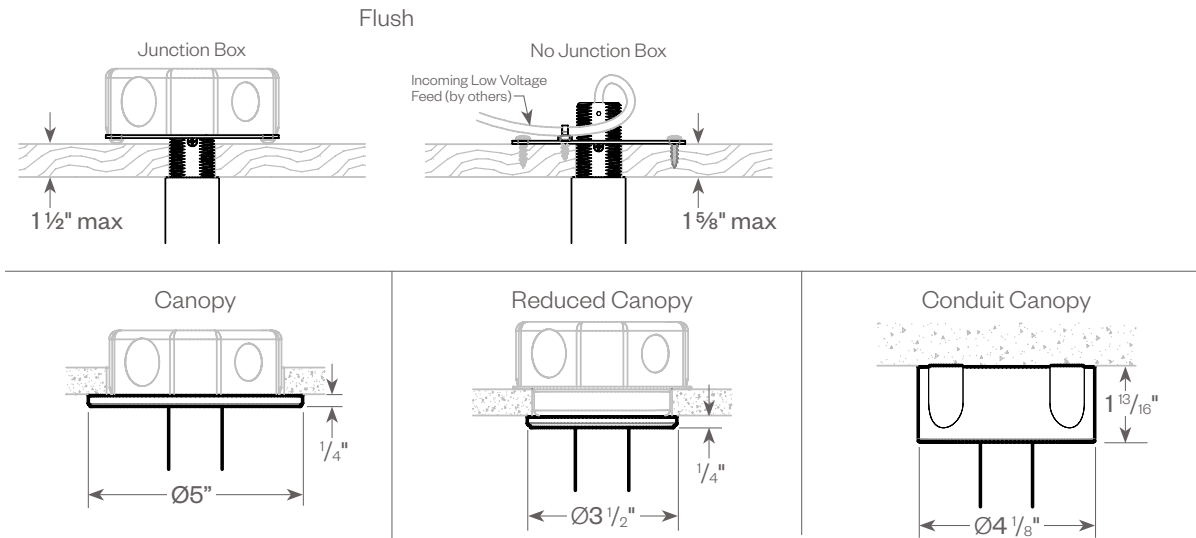
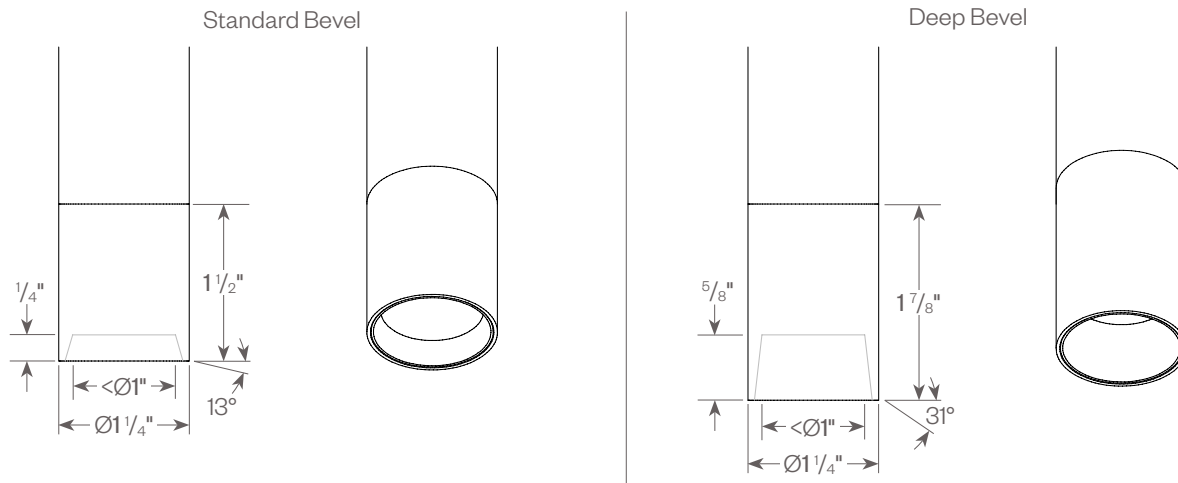


**PROJECT:**
**TYPE:**
**Junction Box Mounting Requirements**


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**

**Door Styles**

**Finish Options**

Powder coat paint.  
Consult factory for custom finishes.



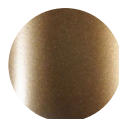
Matte Black



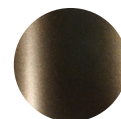
Matte White



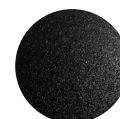
Matte Silver



Bronze



Dark Bronze



Black Texture



Custom Gold

Available for Bevel Finish only

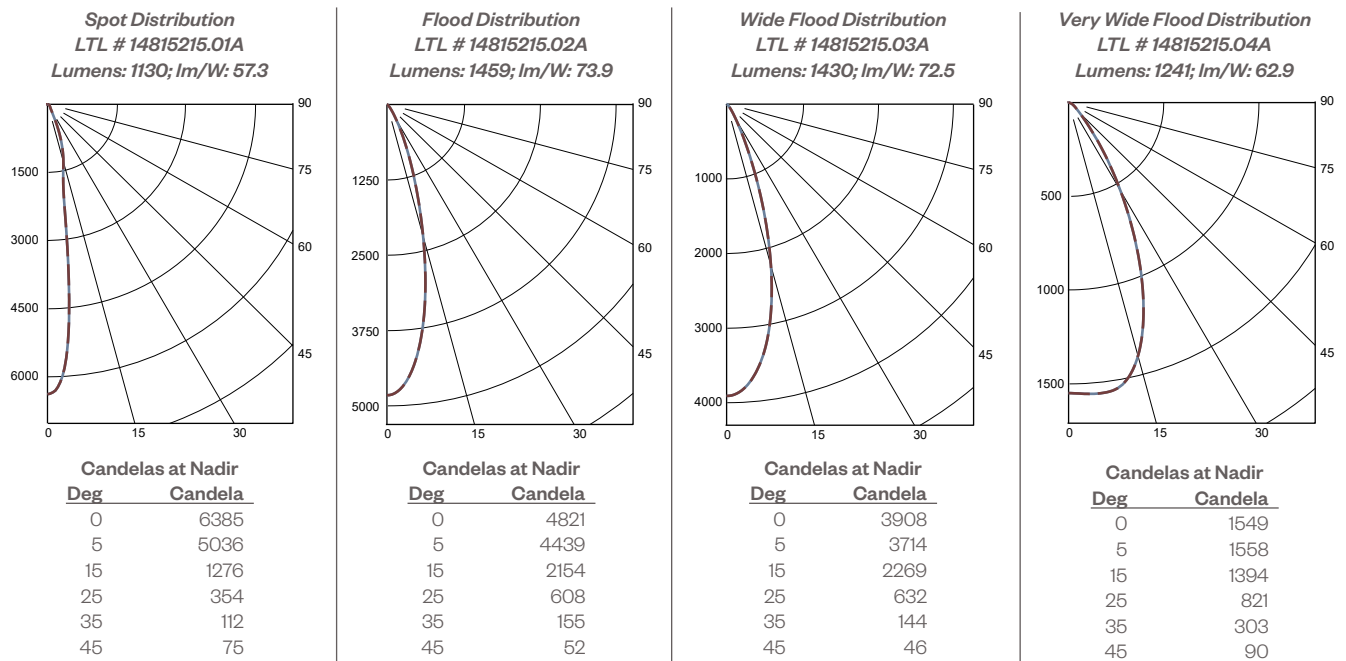
**PROJECT:**
**TYPE:**
**Fixture Data**
**MULTIPLYING FACTORS:**

Wattage:	6W	8W	10W	12W	20W
Factor:	0.44	0.54	0.64	0.73	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, Standard Bevel, 3000K, 80+**

**Application Data:**
**Notes and Definitions:**

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

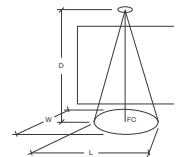
D=Distance to floor or wall.

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

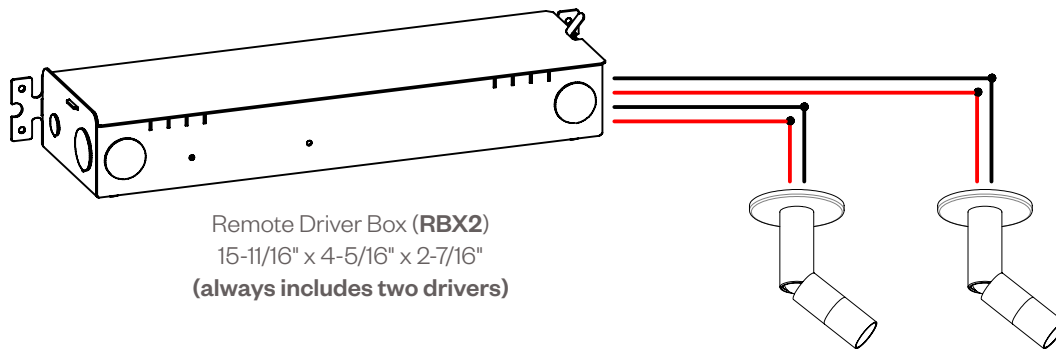
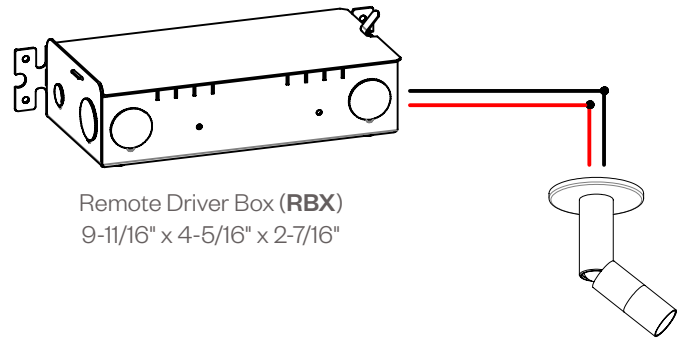
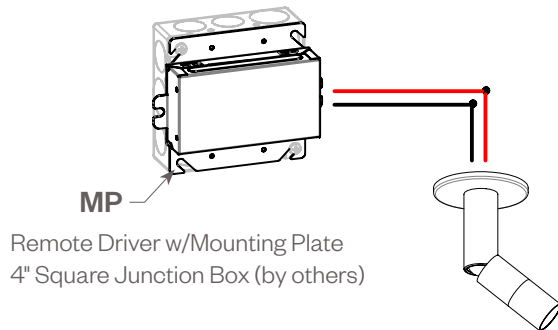


D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

PROJECT:

TYPE:

### Power Supply Options for Remote Driver

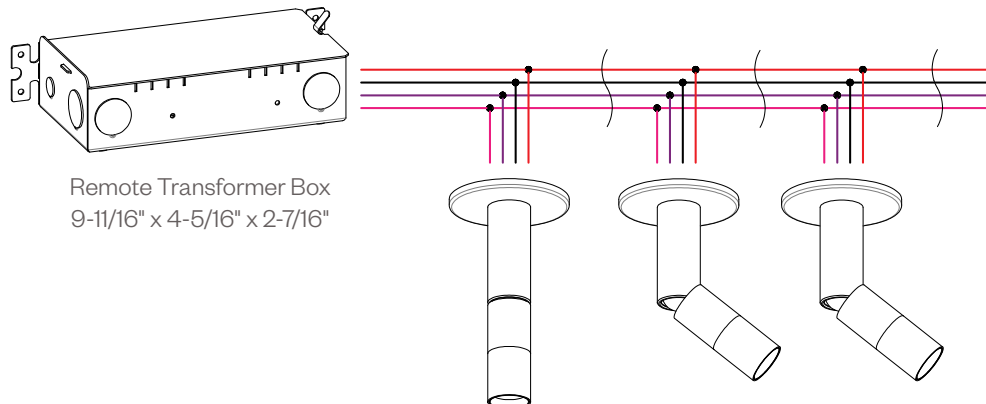


**Please see the example below when choosing the remote driver mounting or enclosure.**

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



**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.

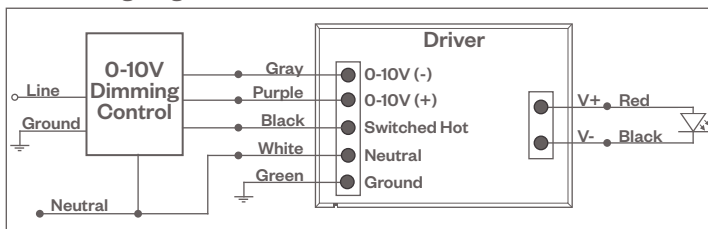
**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

**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

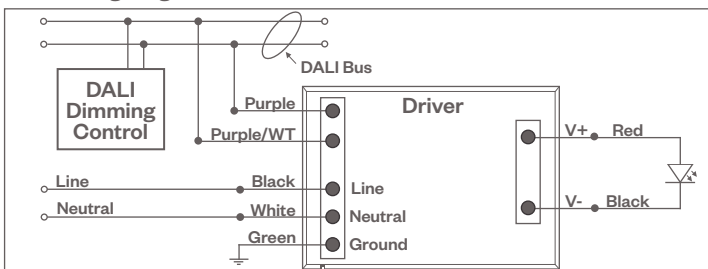
**Compatible Dimmers\*:**
**Wall Box (3-Wire Fluorescent)**

Leviton CD250 Controller

**Central System**

Dynalite

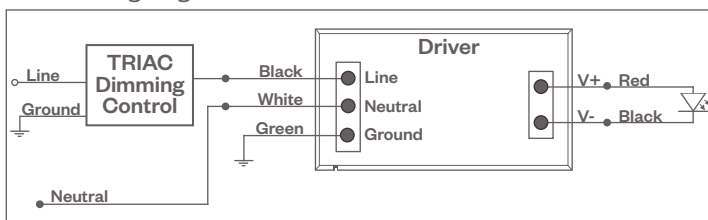
Fifth Light

**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.

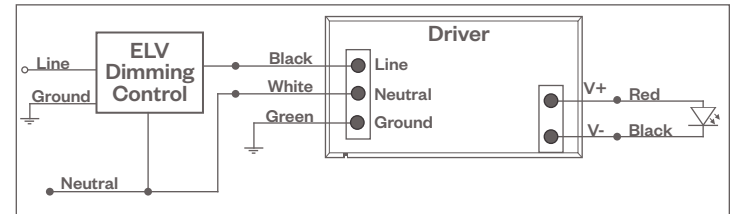
**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

**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:**

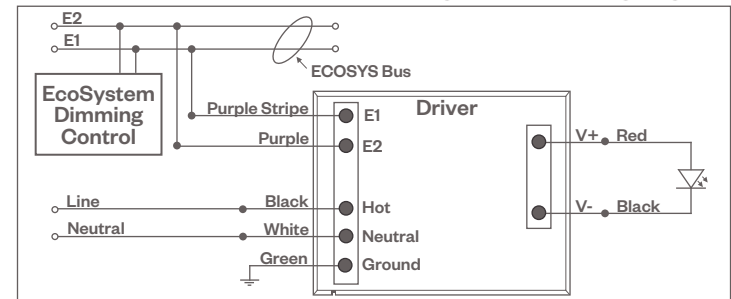
- 120VAC or 277VAC\*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

**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

**Lutron 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.

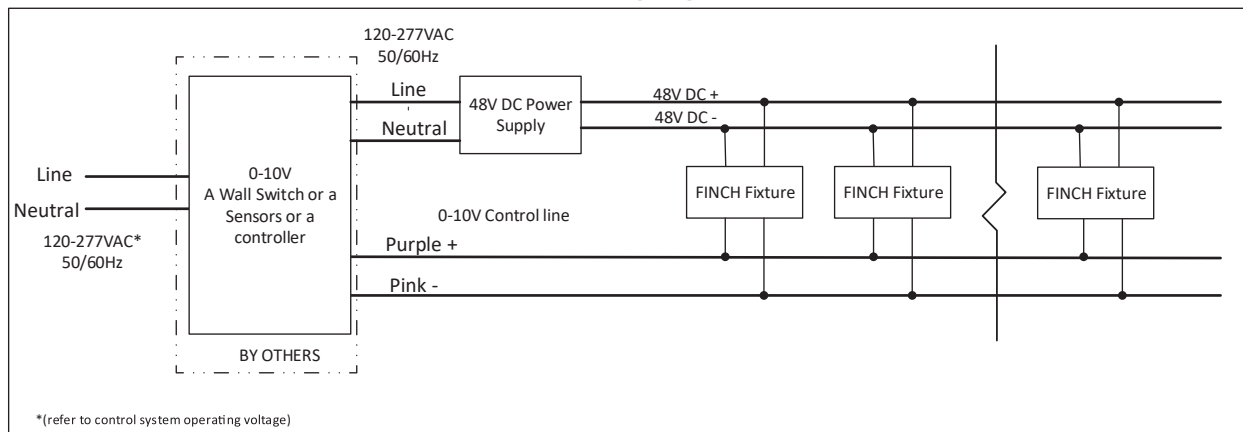
**PROJECT:**
**TYPE:**
**DIMMING COMPATIBILITY:**

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

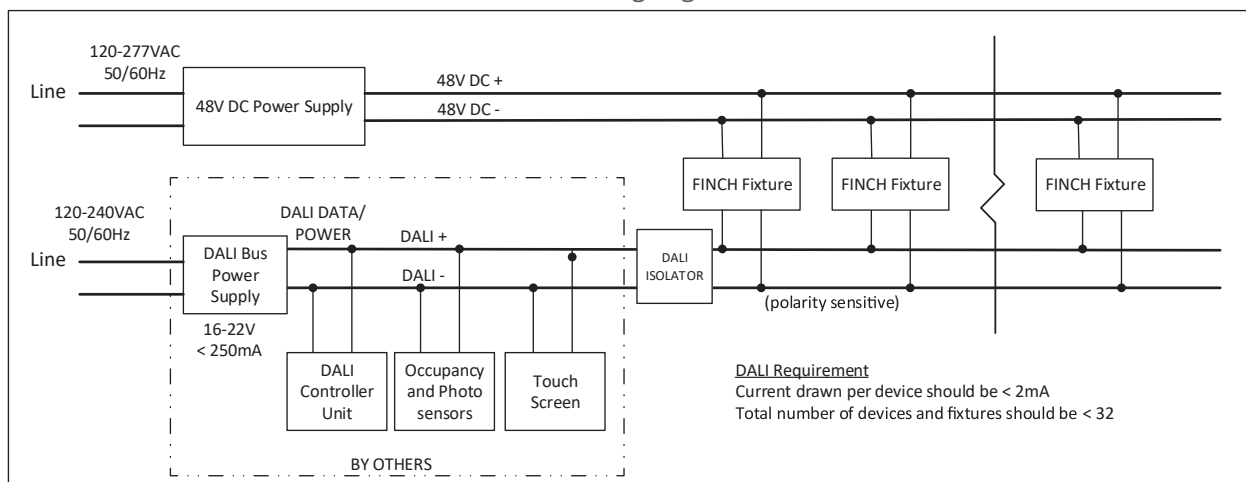
**Compatible Dimmers\*:**
**Wall Box**

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