FINCH® collection

Exterior 1" Wall Mount Cylinder, Direct/Indirect

amerlux

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 1200 lumens and is available with a 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.

FIN6X-WDI

Product Overview

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

Certifications

5 year limited warranty AMERLUX LED

Fixture Summary

Performance Data

Direct		Indirect		Total	Total		
Watts	Lumens	Watts	Lumens	Lumens	LPW	Color Temp	CRI
6	643	6	643	1296	107.2	3000K	80+

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

Electrical Data

	6W/6W	
Voltage	System Watts	Amps
120V	12.6	0.108
277V	13.4	0.068

Electronic constant current LED driver.

PROJECT:	TYPE:

To Order, please specify both the light fixture and remote driver.
Fixture Example: FIN6X-WDI.6/6.309.WF/WF.BT.RC.SOL **Remote Driver Example: FINPW.6/6.0-10V.MP**

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

_____.____.____.____.____.____.____

1 2 3 4 5 6 7

1 Model	2 Wattage	3 Color Temp and CRI	4 Beam Spread
FIN6X-WDI 6" wall mount, direct/indirect	**6/6** 12W total	**30** 3000K, 80+	Direct
		35 3500K, 80+	**SP** spot 15°
		40 4000K, 80+	**FL** flood 28°
		249 2400K, 90+	**WF** wide flood 35°
		279 2700K, 90+	**VWF** very wide flood 50°
		309 3000K, 90+	Indirect
		359 3500K, 90+	**SP** spot 15°
		409 4000K, 90+	**FL** flood 28°
			WF wide flood 35°
			VWF very wide flood 50°

5 Body Finish	6 Mounting	7 Accessories
TBK textured black	**MUL** mullion mount *(Ø2")*	**SOL** solite lens
SLV matte silver	**C** canopy *(Ø5")*	**HEX** hexcell louver
BLK matte black	**RC** reduced canopy *(Ø3-1/2")*	**LS** linear spread lens
BRZ bronze		
DBZ dark bronze		
For custom RAL finish, consult factory		

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 that can fit two drivers. Electrical Contractor *(EC)* is responsible for adherence to all local codes.

FINPW . 6/6 . _____ . _____

1 2 3 4

1 Model	2 Wattage	3 Drivers/Controls	4 Driver Enclosure
FINPW	**6/6** 12W total	**0-10V** 0-10V dimming, 1% dim, 120/277VAC	**RBX2** remote box *(2 drivers)*
		DALI DALI dimming, 1% dim, 120/277VAC	**MP** mounting plate
		LE/TE TRIAC/ELV dimming, 5% dim, 120/277VAC	***Notes: 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 6-8.

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

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

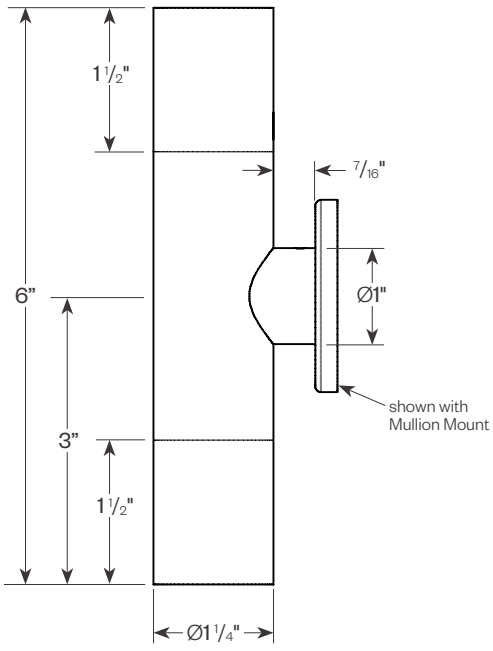
Suitable for wet location

Warranty

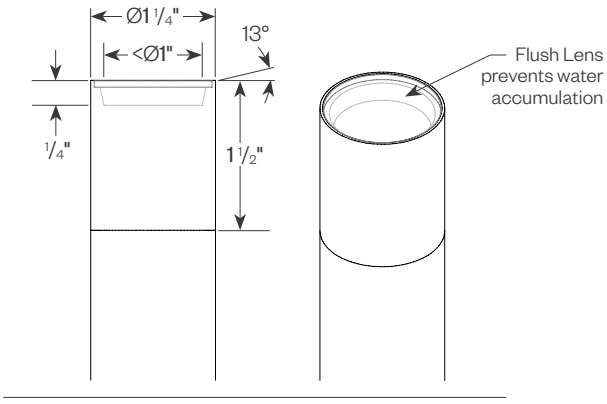
5 year limited warranty

Product Details

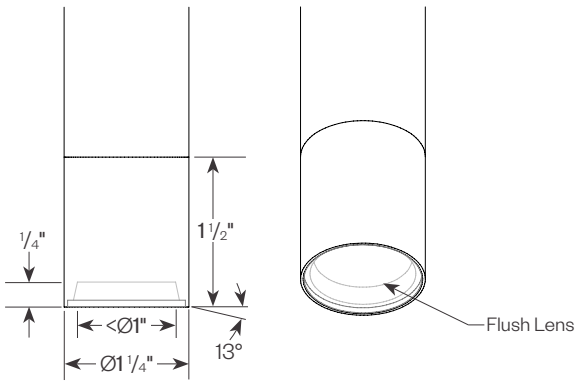
FIN6X-WDI



Indirect

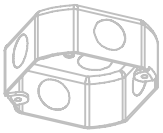


Direct



PROJECT:	TYPE:

Junction Box Mounting Requirements

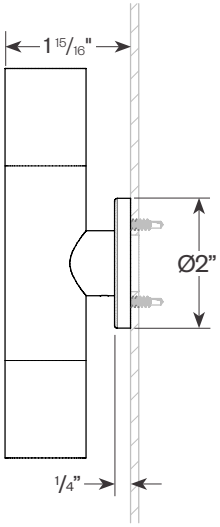


Canopy *(C)* & Conduit Canopy *(CDC)* Mounts Require 4" Octagonal Junction Box *(by others)*

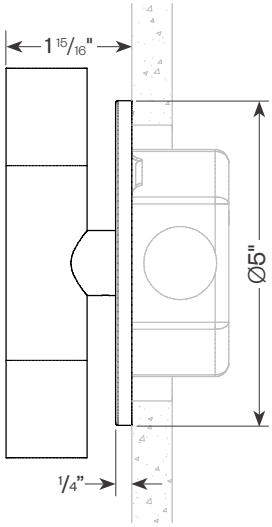
Reduced Canopy *(RC)* Mounts also Require Raised Cover *(by others)* for 4" Octagonal Junction Box

Junction Box Mounting Requirements

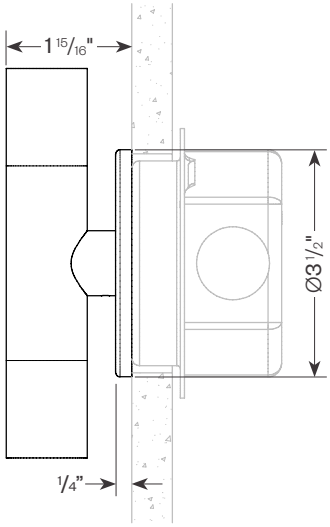
Mullion Mount



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)*

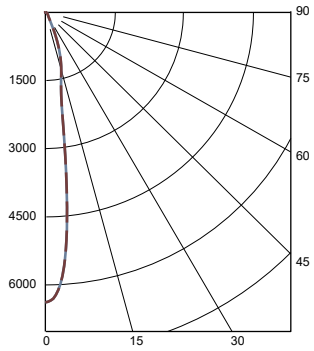
Wattage:	6W	20W*
Factor:	0.44	1.0

** 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+

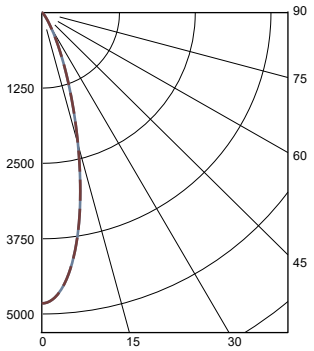
Spot Distribution
LTL # 14815215.01A
Lumens: 1130; lm/W: 57.3



Candelas at Nadir

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

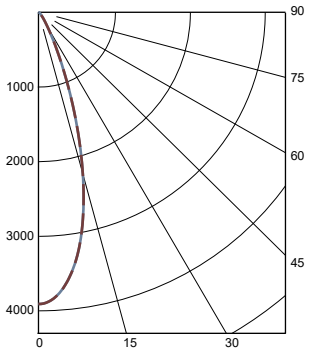
Flood Distribution
LTL # 14815215.02A
Lumens: 1459; lm/W: 73.9



Candelas at Nadir

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

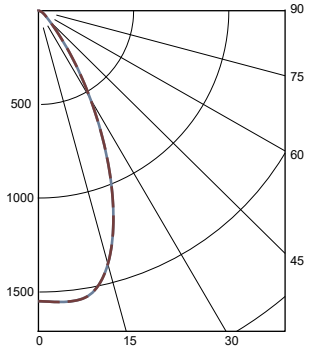
Wide Flood Distribution
LTL # 14815215.03A
Lumens: 1430; lm/W: 72.5



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

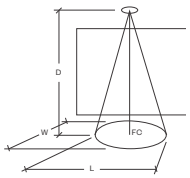


Candelas at Nadir

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 (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

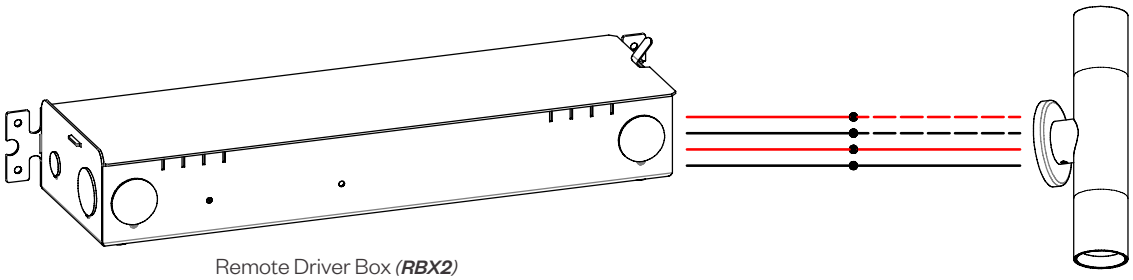
0° Aiming Angle Horizontal Footcandles

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:

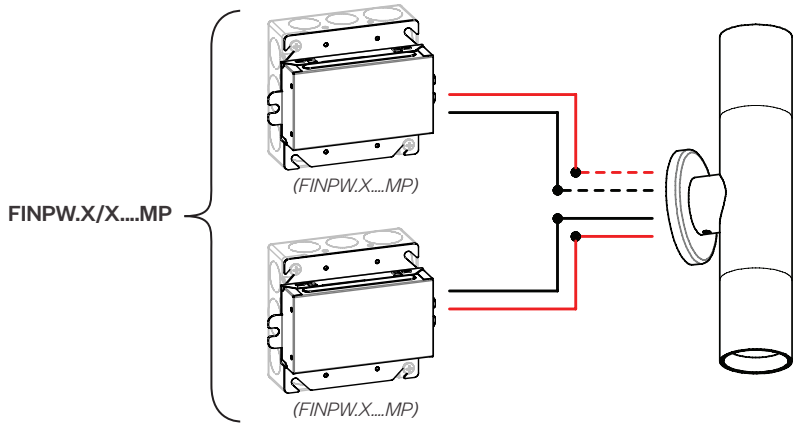
Power Supply Options for Remote Driver

Remote Box *(**RBX2**)*



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

Mounting Plate *(**MP**)*



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

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 - 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 ---

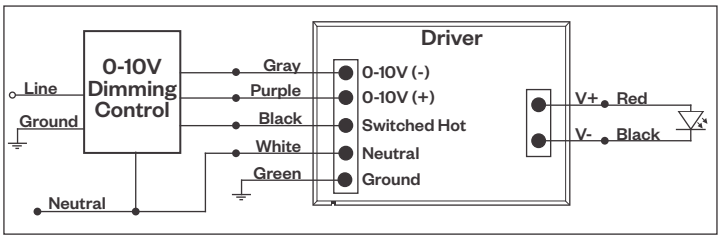
0-10V DIMMING

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

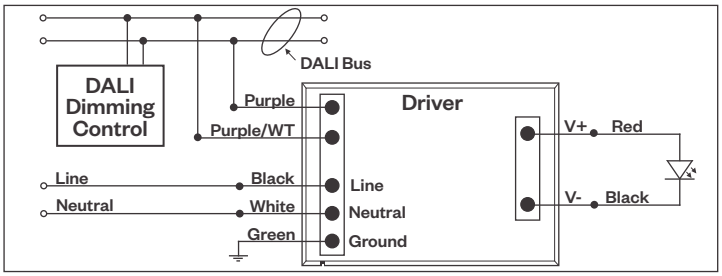
Digital control protocol allows individual fixture control

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)*

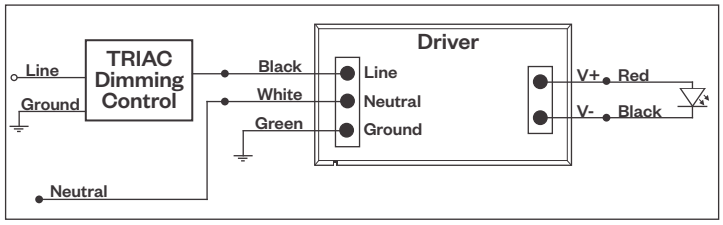
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

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 ---

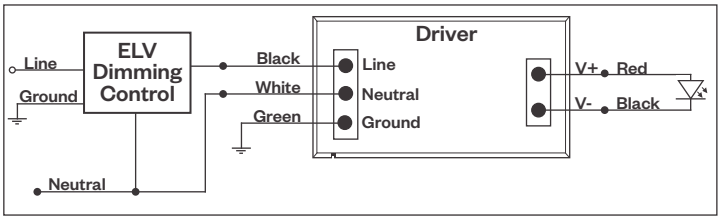
ELV - Electronic Low Voltage *(Reverse Phase)* DIMMING *(Standard)*

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"		