

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 downlight cylinder is available in lengths from 6" to 18," up to 1500 lm output and has a choice of beveled front door options for additional shielding. Use alone or in a composition to create a unique design.

Product Overview

Type: Surface Mount, Direct
 Wattage: 6W, 8W, 10W, 12W, 15W, 17W, 20W
 Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K
 CRI: 80+ or 90+ typ.
 Dimming: 0-10V, DALI



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+
15	1200	79.9	3000K	80+
17	1331	76.9	3000K	80+
20	1459	73.9	3000K	80+

Data is based on 9" cylinder with 20W, flood optic, standard bevel, 3000K, 80+ 120V IES file available on website. Consult ordering information and data for other wattages & beam spreads.

Electrical Data












Voltage	6W		8W		10W		12W		15W		17W		20W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	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	14.9	0.125	17.3	0.144	19.7	0.164
277V	6.7	0.034	8.6	0.038	10.7	0.044	12.8	0.051	15	0.058	17.3	0.065	19.6	0.073

Electronic constant current LED driver.

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STEP 1: 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 Spread	5 Body Finish					
FIN6-SMF-48V 6"	6 6W (643 lm)	30 3000K, 80+	SP spot, 15°	WT white texture 					
FIN9-SMF-48V 9"	8 8W (787 lm)	35 3500K, 80+	FL flood, 28°	BT black texture 					
FIN12-SMF-48V 12"	10 10W (927 lm)	40 4000K, 80+	WF wide flood, 35°	SLV matte silver 					
FIN18-SMF-48V 18"	12 12W (1065 lm)	249 2400K, 90+	VWF very wide flood, 50°	BRZ bronze 					
	15 15W (1200 lm)	279 2700K, 90+		DBZ dark bronze 					
	17 17W (1331 lm)	309 3000K, 90+							
	20+ 20W (1459 lm)	359 3500K, 90+							
	* Only 9" and up	409 4000K, 90+							
6 Bevel Finish	7 Door Style	8 Mounting							
MW matte white 	SB standard bevel (1/4" recess)	F flush mount							
MB matte black 	DB deep bevel (5/8" recess)	C canopy (Ø5")							
SLV matte silver 	GLOW frosted glow lens (1/2" drop)	RC reduced canopy (Ø3-1/2")							
BRZ bronze 		CDC conduit canopy (Ø4-1/8")							
DBZ dark bronze 									
GLD gold 									
For custom RAL finish, consult factory. Omit from nomenclature when ordering GLOW door style.									
9 Drivers/Controls	10 Options/Accessories								
O-10V 0-10V dimming, 1% dim	SOL solite beam softening lens								
DALI DALI dimming, 1% dim	HEX hexcell louver								
	LS linear spread lens								

STEP 2: Transformer Ordering Information (to power integral driver)

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

TR-48V100W

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

For enclosure drawing & driver wiring schematics, see pages 6-7.

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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.

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

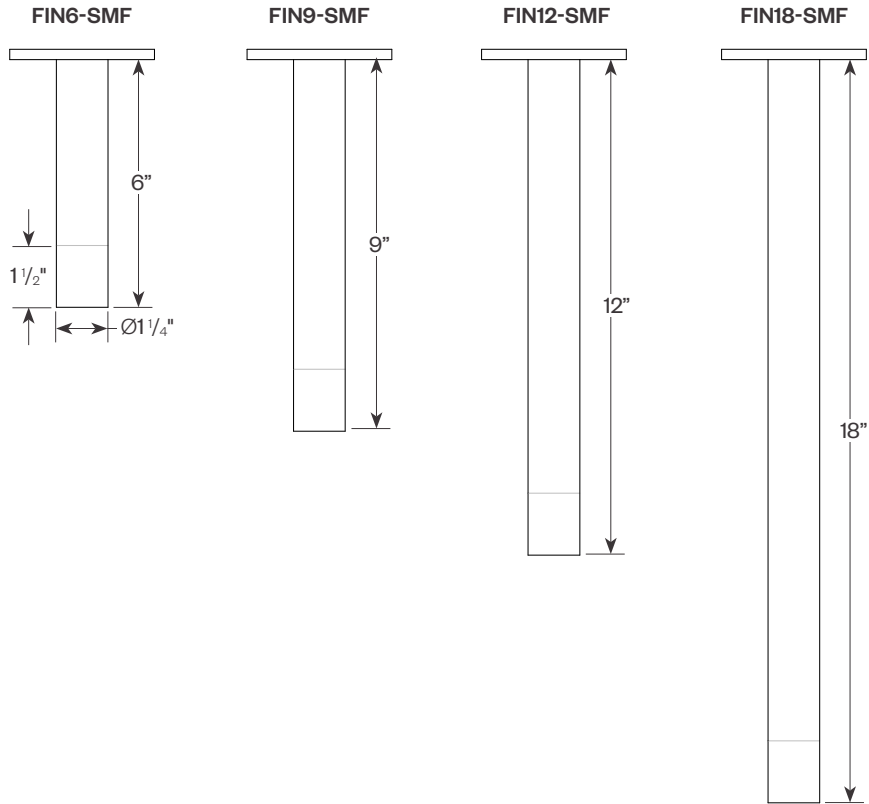
Mounting
Surface mount

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

Certifications
CSA tested to UL standards
Indoor use only
Damp location

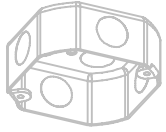
Warranty
5 year limited warranty

Product Details



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Junction Box Mounting Requirements

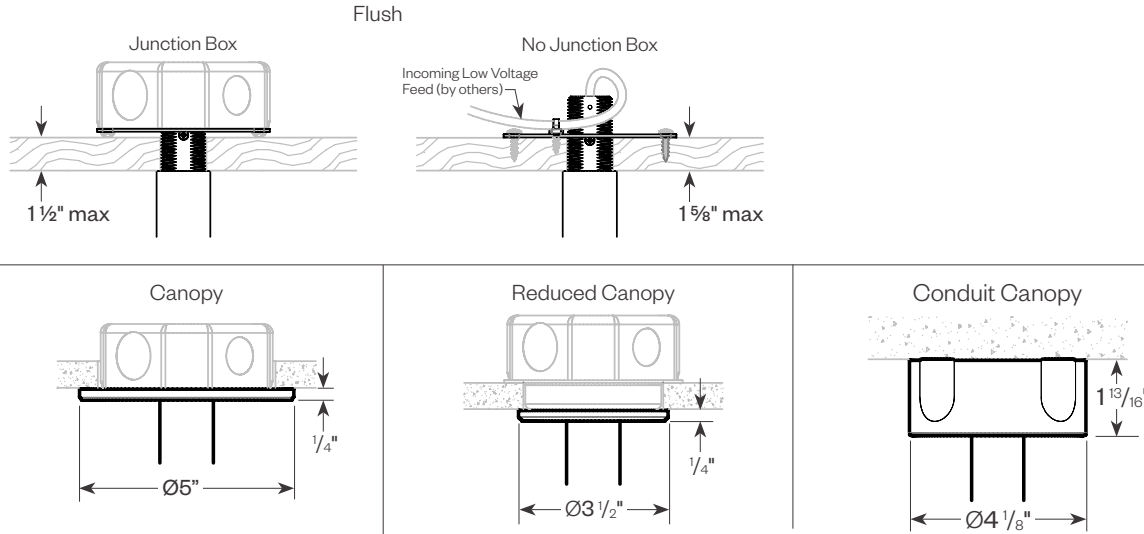


All Mounts Require 4" Octagonal Junction Box *(by others)*

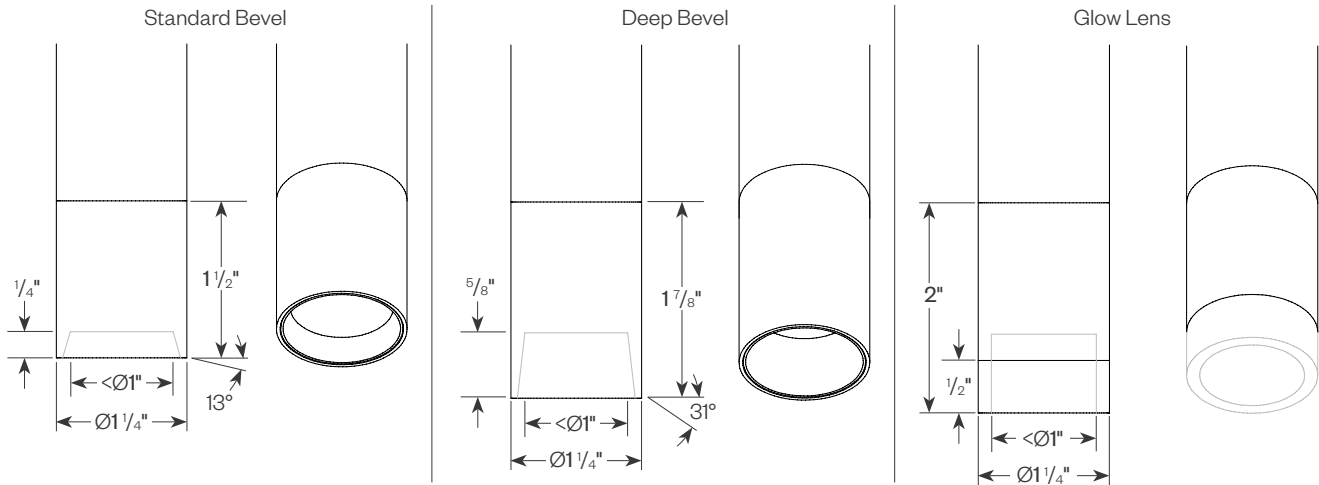


Reduced Canopy (**RC**) Mounts also Require Raised Cover *(by others)* for 4" Octagonal Junction Box

Mounting Options



Door Styles



Finish Options

Powder coat paint. *Consult factory for custom finishes.*



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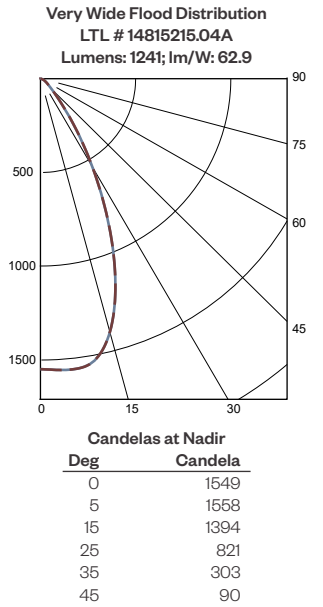
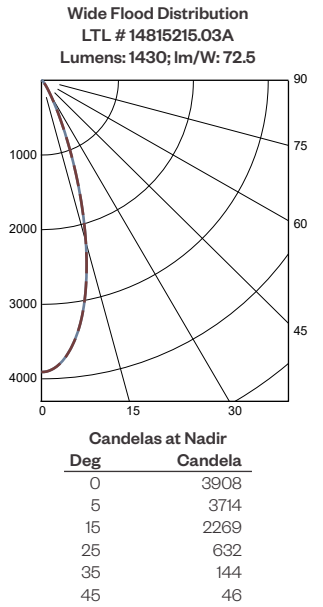
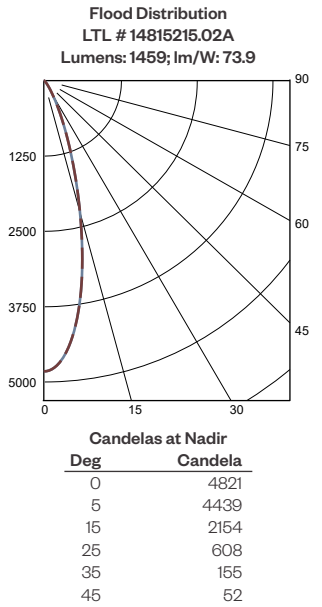
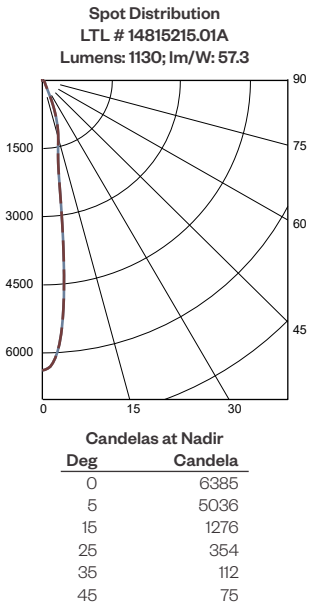
Performance Data

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

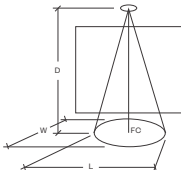
Wattage:	6W	8W	10W	12W	15W	17W	20W
Factor:	0.44	0.54	0.64	0.73	0.82	0.91	1.0

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+




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



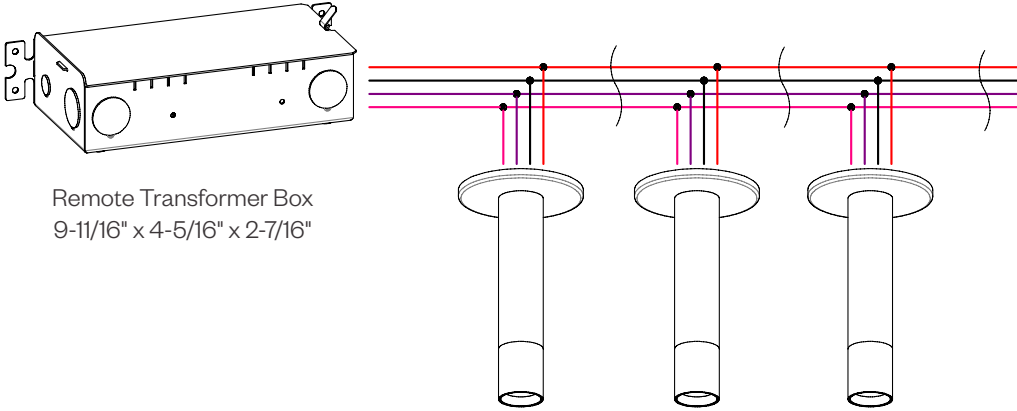
D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

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Power Supply Option for Integral Driver

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



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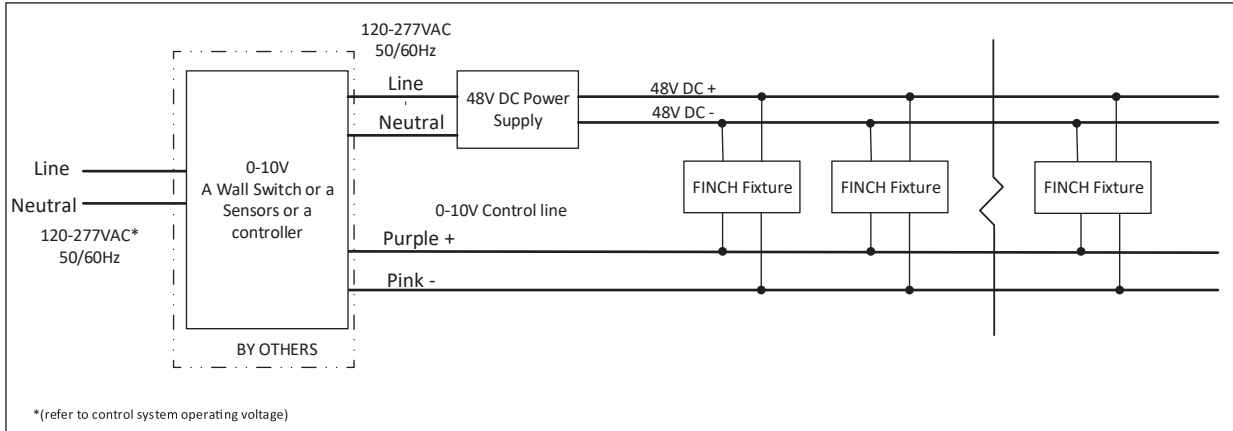
Dimming Compatibility

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

0-10V Wiring Diagram



Compatible Dimmers*:

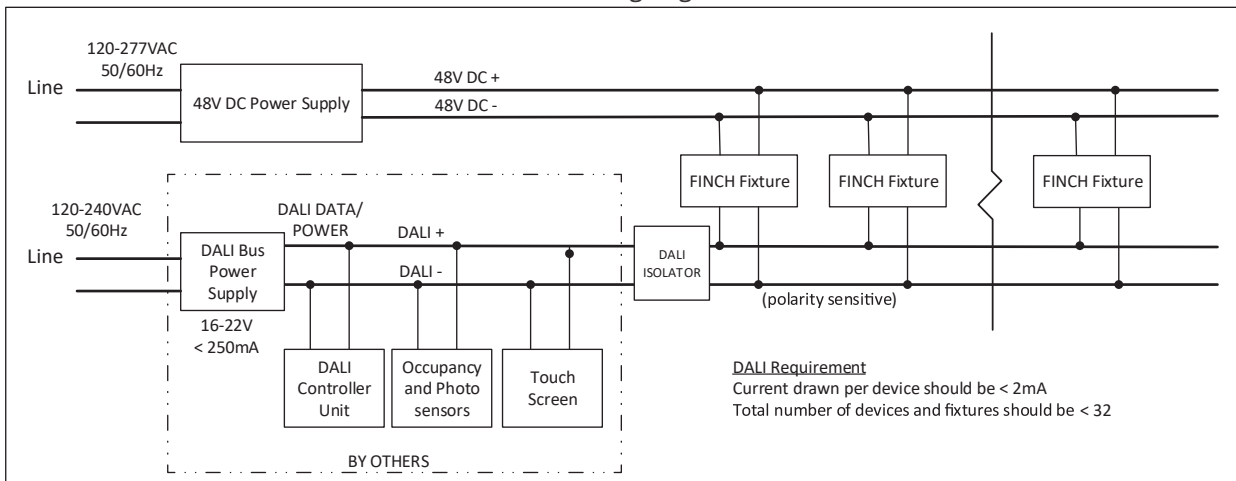
Wall Box	Central System
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface
Leviton Renoir II 0-10V	

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



Suggested Switches for Wired Connections:

Manufacturer	Model	Description
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