



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 3" to 18," up to 1500 Im 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

Туре:	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, TRIAC/ELV, Hi-lume®



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

	60	/	80	V	101	V	12V	V	15V	V	17V	V	201	V
Voltage	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.





TYPE:



PROJECT:

STEP 1: 1" Surface Mount Cylinder Ordering Information

1	Model	2	Wattage		3	Color Temp and CRI	4	Beam Spread	5	Body Finish
	FIN3-SMF 3"		6 6W (643 Im)		30 3000K, 80+		SP spot, 15°		WT white texture
	FIN6-SMF 6"		8 8W (787 lm,)		35 3500K, 80+		FL flood, 28°		BT black texture
	FIN9-SMF 9"		10 10W (927)	lm)		40 4000K, 80+		WF wide flood, 35°		SLV matte silver
	FIN12-SMF 12" 12 V (1065 lm)		249 2400K, 90+			VWF very wide flood, 50°		BRZ bronze		
	FIN18-SMF 18" 15 15W (1200 lm)			279 2700K, 90+				DBZ dark bronze 🌘		
			17† 17W (1331	lm)		309 3000K, 90+				For custom RAL finish,
			20 ⁺⁺ 20W (14	¹ 59 lm,)	359 3500K, 90+				consult factory
			† Only 6" and u †† Only 9" and u			409 4000K, 90+				
6	Bevel Finish			7	Door St	yle	8	Mounting	ę	9 Options/Accessorie
	MW matte white	\bigcirc			SB stan	ndard bevel (1/4" recess)		F flush mount		SOL solite beam
	MB matte black				DB deep bevel (5/8" recess)			C canopy (Ø5")		softening lens
	SLV matte silver				GLOW	frosted glow lens (1/2" drop)		RC reduced canopy (Ø3-1/2")		HEX hexcell louver
	BRZ bronze							CDC conduit canopy (Ø4-1/8")		LS linear spread lens
	DBZ dark bronze									
	GLD gold									
			nsult factory.							

STEP 2: Remote Driver Ordering Information

Ameriux offers a mounting plate (MP) 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.

	FINPW		2 3		·4		
1	Model	2	Wattage	3	Drivers/Controls	4	Driver Enclosure
	FINPW		6 6W (643 lm)		0-10V 0-10V dimming, 1% dim, 120/277VAC		MP mounting plate (1 driver)
			8 8W (787 lm)		DALI DALI dimming, 1% dim, 120/277VAC		RBX remote box (1 driver)
			10 10W (927 lm)		LE/TE TRIAC/ELV dimming, 5% dim, 120/277VAC		RBX2 remote box (2 drivers)
			12 12W (1065 lm)		HILUME-H-ECO - Lutron LDE1 Hi-lume® 1% dim Soft-On/		Note: One wattage & dimming
			15 15W (1200 lm)		Fade-to-Black, 120/277VAC (10W min)		protocol per box.
			17 17W (1331 lm)				
			20 20W (1459 lm)				

For enclosure drawings & wiring schematics, see pages 6-8.





PROJECT:

TYPE:

Specifications

Application

Retail, commercial and hospitality ambient/task lighting

Construction

Extruded aluminum precision machined body, door & heatsink

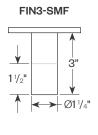
Optical

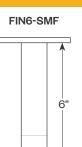
TIR optics Beam Spreads: Spot 15°, Flood 28°, Wide Flood 35°, Very Wide Flood 50° Linear Spread Lens (LS) recommended for use with Spot beam spread for maximum linear effect.

LED

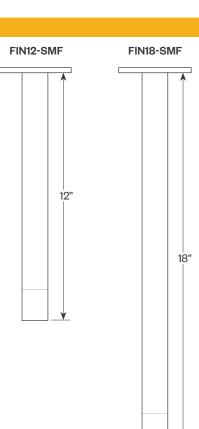
Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K CRI: 80+ & 90+ typ. R9 Values: 11 (*83 CRI*), 55 (*92 CRI*) Binning: 3 MacAdam (*SDCM*) Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

Product Details









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

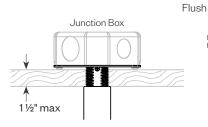


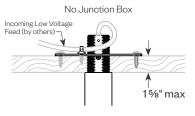
All Mounts Require 4" Octagonal Junction Box (by others)

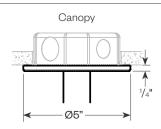


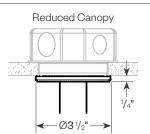
Reduced Canopy (*RC*) Mounts also Require Raised Cover (*by others*) for 4" Octagonal Junction Box

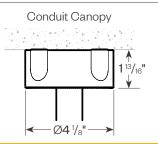
Mounting Options



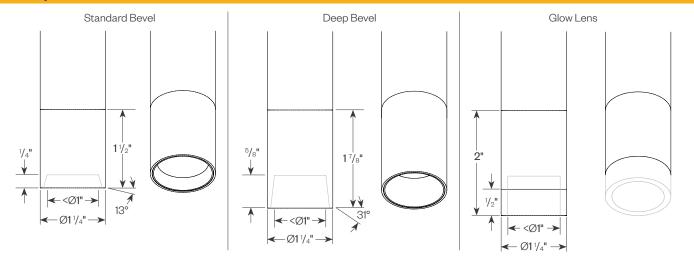








Door Styles



Finish Options

Powder coat paint. Consult factory for custom finishes.













Matte Black

Matte White Matte Silver

Bronze

White Texture

Available for Bevel Finish only



Delta Intelligent Building Technologies

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com Amerlux reserves the right to change details that do not affect overall function and performance. LIT-2372 • 07/28/25 • Page 4 of 8





PROJECT:

TYPE:

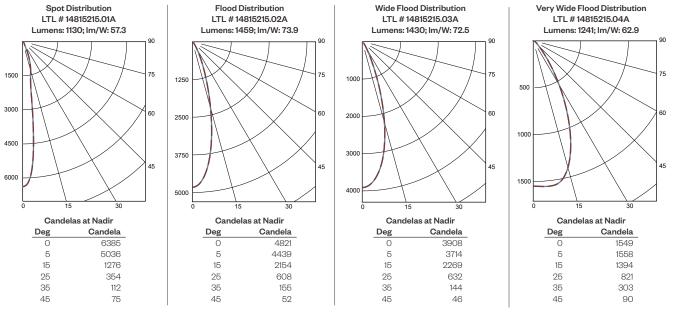
Performance Data

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

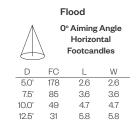


Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP). $\ensuremath{\textbf{D}}=\ensuremath{\text{D}}$ is the floor or wall.

 $\label{eq:FC} \begin{array}{l} FC = \mbox{Fotocandles on floor or wall at center beam aiming location.} \\ L = \mbox{Effective Visual Beam length in feet (50% of maximum footcandle level).} \\ W = \mbox{Effective Visual Beam width in feet (50% of maximum footcandle level).} \end{array}$

Spot										
O° 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							



Wide Flood						
\wedge	0° Aiming Angle					
	Horizontal					
\square	Footcandles					

\sim			
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

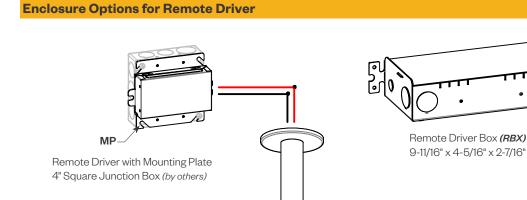


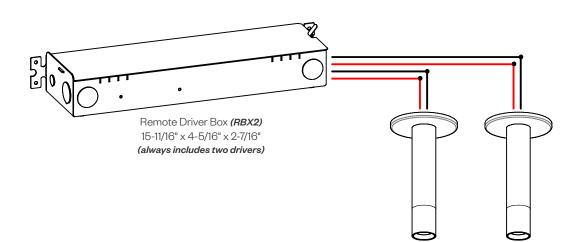




PROJECT:

TYPE:





Please see the example below when choosing the remote driver mounting or enclosure. With 10 Finch® Cylinders, 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.







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.

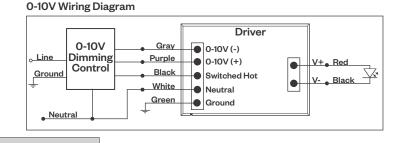
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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!



Purple

Black

White

Green

Purple/WT

DALI Bus

.

Line

Ground

Neutral

Driver

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:

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

TRIAC (Forward Phase) DIMMING (Standard)

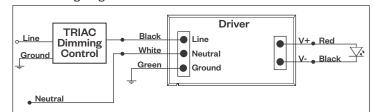
o Neutral

DALI Wiring Diagram

DALI

Dimming

TRIAC Wiring Diagram



Consult Dimming manufacturer for installation
 instructions - DO NOT SHARE NEUTRALS!

Dims down to 5% light output (most cases)

 Must meet dimmer Minimum Load Requirements per dimming manufacturer

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

Compatible Dimmers⁺:

• 120VAC or 277VAC*

· · · · · · · · · · · · · · · · · · ·		
Wall Box (TRIAC 120VAC)	Central System	
Lutron "Diva"	Lutron "GP" Panel	
Lutron "Nova-T"	Lutron Grafik Eye QS	
Lutron "Maestro"		
Lutron "Skylark"		



- * 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 (continued)

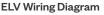
Amerlux[®] Finch[®] fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux[®] recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage,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

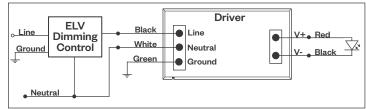
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

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





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"				

LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

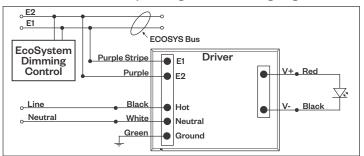
Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation
 instructions DO NOT SHARE NEUTRALS!

Compatible Dimmers⁺:

•	
Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

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 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.

