





Features

The FINOH family of recessed downlights with a 1" aperture, features exceptional output, and a broad range of configurations to provide discreet quality illumination while integrating into the architecture. It is available in fixed, adjustable (30° tilt) and wall wash. Round or square, trimmed, trimless or millwork and is serviceable from below.

The FINCH recessed downlight can be coupled with the surface cylinder to create a broader composition and a unique design.

Product Overview

Type: Recessed Square Downlight

Wattage: 6W, 8W, 10W, 12W

Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K

CRI: 80+ & 90+ typ.

Dimming: 0-10V, DALI, TRIAC/ELV, Hilume

PROJECT:

TYPE:

Performance Data

Watts	Lumens	LPW	ССТ	CRI
6	667	115	3000K	80+
8	823	100.4	3000K	80+
10	979	95	3000K	80+
12	1112	87.1	3000K	80+

Data is based on wide flood optics, 120V, 3000K, 80+ IES files available on website.

Electrical Data

	6	6W		w	10	W	12	w
	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
120V	5.8	0.05	8.2	0.06	10.3	0.08	12.7	0.10
277V	6.2	0.03	8.5	0.04	10.4	0.04	12.6	0.05

Electronic constant current LED driver.

Data is based on tests using ELV/TRIAC (LE/TE) driver.







FIN-SD-IC (Insulated Ceiling/air tight, 10W max)

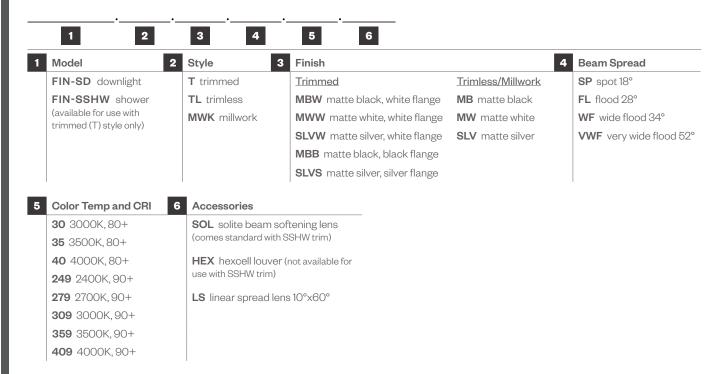
1" Square Downlight



PROJECT: TYPE:

1 Recessed Square Downlight Housing/Frame Ordering Information 1 Model 2 Style 3 Options/Accessories New Construction FIN-SD-NC (non-IC) FIN-SD-CP (Chicago Plenum (CCEA), 10W max) MWK millwork

1" Recessed Square Downlight Trim Ordering Information



Remote Driver Ordering Information

Amerlux offers a mounting plate for each remote driver for mounting in enclosure by others, or a single remote box for one driver (RBX), or a single remote box for two drivers (RBX2). Electrical Contractor (EC) is responsible for adherence to all local codes.

MP mounting plate (standard RBX remote box (1 driver)
RBX remote box (1 driver)
RBX2 remote box (2 drivers)



PROJECT: TYPE:

Specifications

Construction

Galvanized steel frame

Galvanized steel splice housing and hanger brackets Screwless plaster frame with perforated face for easier installation

(for trimless version only)

Optical

Beam Spreads: Spot 18°, Flood 28°, Wide Flood 34°, Very Wide Flood 52°, Linear Spread 10°x60°

LED

Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K CRI: 80+ typ (3000K, 3500K, 4000K)

90+ typ. (2400K, 2700K, 3000K, 3500K, 4000K)

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

Wattage: 6W, 8W, 10W, 12W

Electronic constant current remote LED driver, 120/277VAC input

Finish

Powder coat paint/wet paint

Consult factory for custom finishes

Mounting

26" Hanger bars included.

Optional **HB49** - hanger bars from min 29" to max 49" available.

Trimmed Fixture:

For use in grid or sheetrock ceilings, 1" max ceiling thickness.

Trimless Fixture:

For use in sheetrock ceilings, 1" max ceiling thickness.

Millwork Fixture:

Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. 1" max ceiling thickness.

Certifications

CSA tested to UL standards Indoor use only IC/AT rated (optional) Damp location

Warranty

5 year limited warranty

Finish Options

Powder coat paint.

Consult factory for custom finishes.





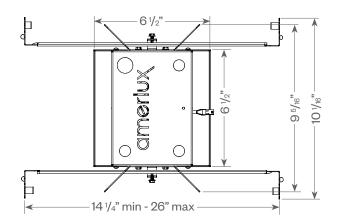


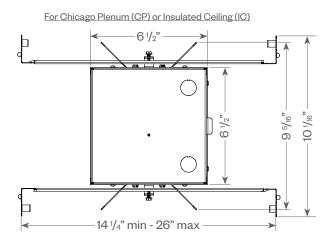


PROJECT: TYPE:

Product Details

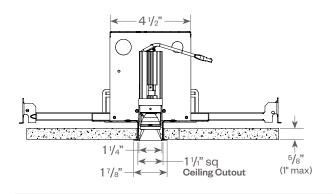
Housing/Frame

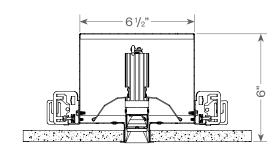




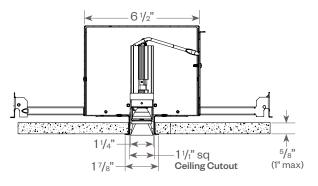
Trimmed

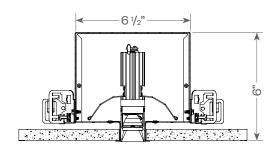
FIN-SD-NC.T





FIN-SD-CP/IC.T





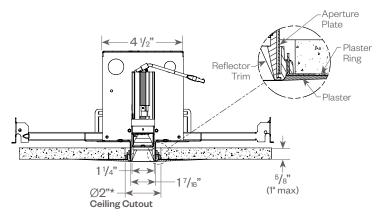


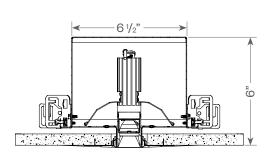
PROJECT: TYPE:

Product Details (continued)

Trimless

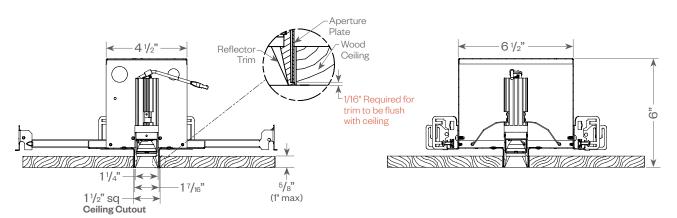
FIN-SD-NC.TL





Millwork

FIN-SD-NC.MWK

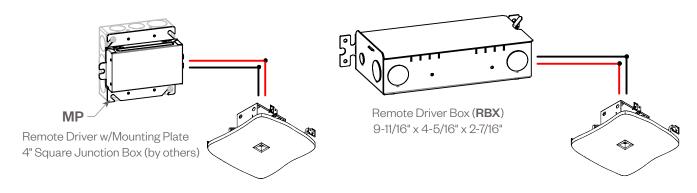


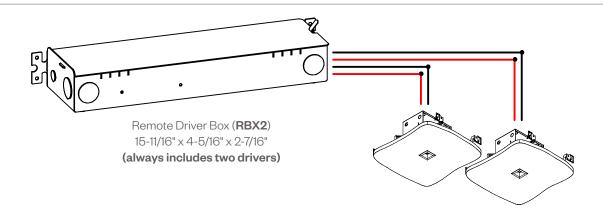
^{*} Note: Round cutout will work for this application.



PROJECT:

Enclosure Options for Remote Driver





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





PROJECT: TYPE:

Performance Data

Multiplying Factors:

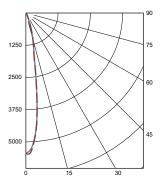
Wattage:	6W	8W	10W	12W
Factor:	0.60	0.74	0.88	1.0

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

Multiplying Factor is based on 3000K, 80+120V IES file on website.

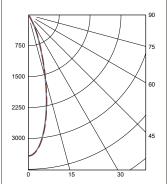
12W, 3000K, 80+

Spot Distribution LTL # 15016743.05 Lumens: 886; lm/W: 69.3



Candelas at Nadir				
Deg	Candela			
0	5430			
5	4527			
15	1052			
25	207			
35	52			
45	41			

Flood Distribution LTL # 15016743.06 Lumens: 1047; Im/W: 82



 Candelas at Nadir

 Deg
 Candela

 0
 3419

 5
 3162

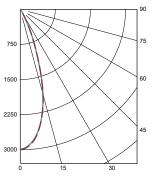
 15
 1588

 25
 459

 35
 68

 45
 23

Wide Flood Distribution LTL # 15016743.07 Lumens: 1112; lm/W: 87.1



 Candelas at Nadir

 Deg
 Candela

 0
 2989

 5
 2847

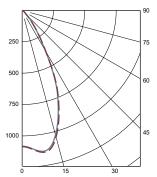
 15
 1878

 25
 499

 35
 63

 45
 25

Very Wide Flood Distribution LTL # 15016743.08 Lumens: 920; lm/W: 72



Cande	las at Nadir
Deg	Candela
0	1083
5	1113
15	1026
25	631
35	211
45	54

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 148 1.9 1.9 75' 81 26 26 10.0' 49 3.2 3.2 12.5' 33 3.8 3.8

Flood					
	0	° Aiming A Horizon Footcand	tal		
D	FC	L	W		
5.0'	115	2.7	2.7		
7.5'	56	3.7	3.7		
10.0'	33	5.0	5.0		
12.5'	21	6.1	6.1		

	Wide	Flood	
\triangle		Aiming Horizon Footcan	ital
D	FC	L	W
5.0'	107	3.0	3.0
7.5'	50	4.5	4.5
10.0'	29	5.9	5.9
12.5'	19	7.3	7.3

Very Wide Flood					
\triangle		Aiming A Horizon Footcand	tal		
D	FC	L	W		
5.0'	44	4.3	4.3		
7.5'	20	6.5	6.5		
10.0'	11	8.6	8.6		
12.5'	7	10.8	10.8		



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 ---

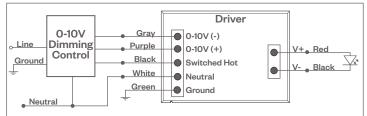
0-10V DIMMING

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!

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

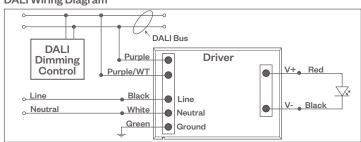
Notes:

- 120VAC or 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.

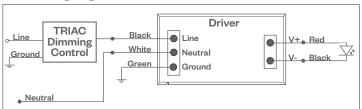
Notes:

- 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 "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 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.



Driver

Line

Neutral

Ground

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.

Ground

Neutral

ELV Wiring Diagram

ELV

Dimming

Control

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

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

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% 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

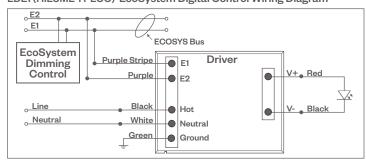
Lutron EcoSystem compatible controls

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram

Black

White

Green



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.