

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 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**

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	+08
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**

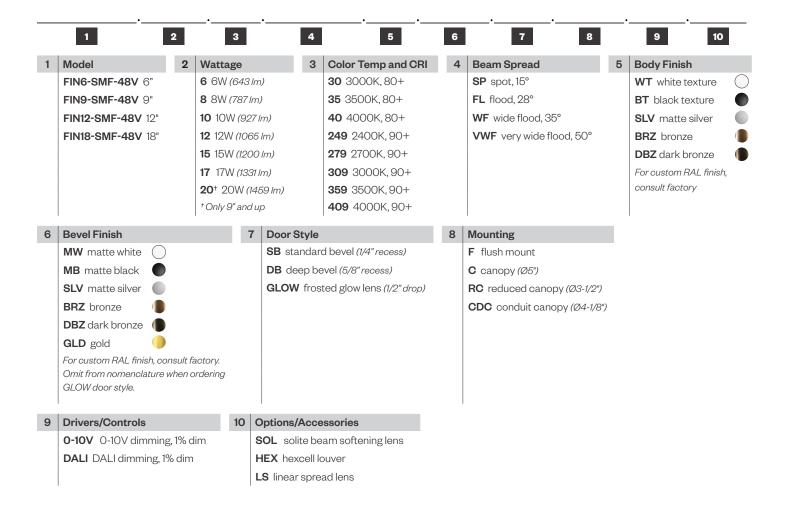
	6V	V	87	<b>V</b>	10V	V	12V	V	15V	V	17V	V	20\	N
	System		System		System		System		System		System		System	
Voltage	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088	12.7	0.107	14.9	0.125	17.3	0.144	19.7	0.164
277V	6.7	0.034	8.6	0.038	10.7	0.044	12.8	0.051	15	0.058	17.3	0.065	19.6	0.073

Electronic constant current LED driver.



PROJECT: TYPE:

#### STEP 1: 1" Surface Mount (with 48V Constant Voltage Integral Driver) Ordering Information



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

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

#### TR-48V100W



1 Model

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

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



**PROJECT:** TYPE:

# **Specifications**

#### Application

Retail, commercial and hospitality ambient/task lighting

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

#### **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

#### Finish

Powder coat paint

Consult factory for custom finishes

#### Mounting

Surface mount

#### Certifications

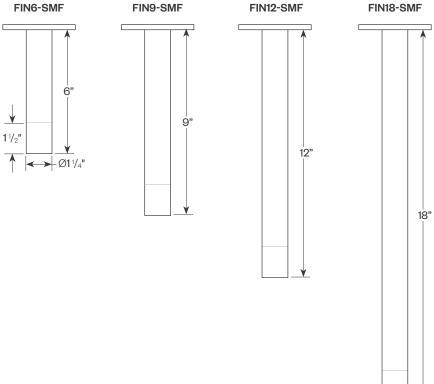
CSA tested to UL standards

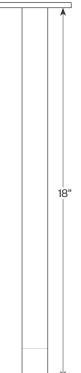
Indoor use only Damp location

#### Warranty

5 year limited warranty

#### **Product Details**







PROJECT: TYPE:

# **Junction Box Mounting Requirements**



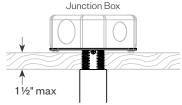
All Mounts Require 4" Octagonal Junction Box (by others)

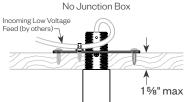


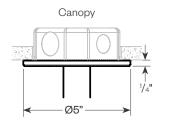
Reduced Canopy (**RC**) Mounts also Require Raised Cover (by others) for 4" Octagonal Junction Box

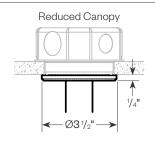
# **Mounting Options**

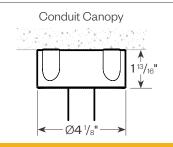




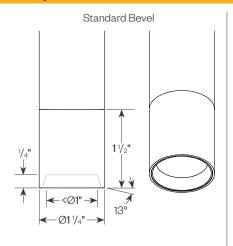


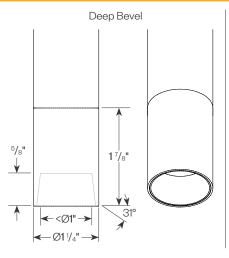


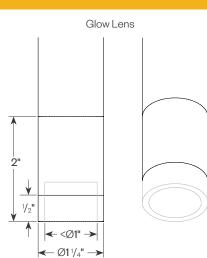




# **Door Styles**







# **Finish Options**

Powder coat paint. Consult factory for custom finishes.













Toytura Bla





Available for Bevel Finish only



PROJECT: TYPE:

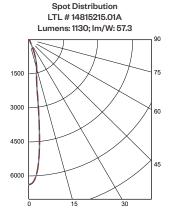
#### **Performance Data**

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

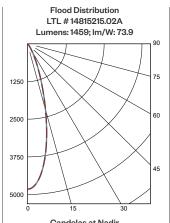
Wattage:	6W	8W	10W	12W	15W	17W	20W
Factor:	0.44	0.54	0.64	0.73	0.82	0.91	1.0

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	

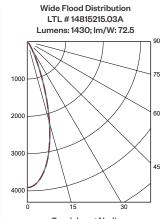
#### 20W, Standard Bevel, 3000K, 80+



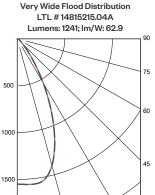




Cande	ias at inauii
Deg	Candela
0	4821
5	4439
15	2154
25	608
35	155
45	52



Candelas at Nadir				
Deg	Candela			
0	3908			
5	3714			
15	2269			
25	632			
35	144			
45	46			



Cande	las 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		
10 [2	00	0.5	0.5		

Flood					
$\bigwedge$		O° 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		

		Aiming A Horizont ootcand	al
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

Wide Flood

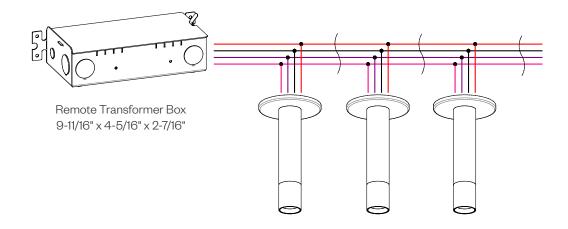
Very Wide Flood					
	0° Aiming Angle Horizontal Footcandles				
D	FC	L	W		
5.0'	61	4.2	4.2		
7.5'	27	6.3	6.3		
10.0'	16	8.4	8.4		
12.5'	10	10.6	10.6		



PROJECT: TYPE:

# **Power Supply Option for Integral Driver**

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





PROJECT: TYPE:

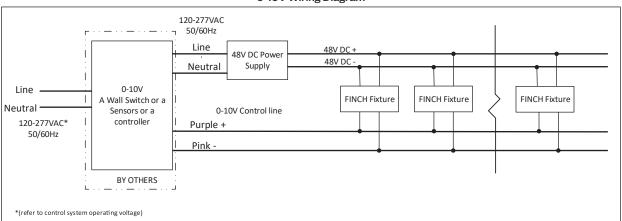
# **Dimming Compatibility**

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 ---

O-10V DIMMING Integrates into a variety of building management and daylighting controls

#### 0-10V Wiring Diagram



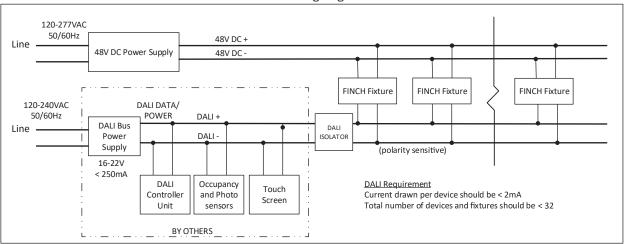
Compatible Dimmers†:		
Wall Box	Central System	
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface	
Leviton Renoir II 0-10V		

#### 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	
Loytec DALI PSU	L-DALI-PWR2-U	DALI Bus Power Supply, 85-240 VAC 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 eith integrated DALI power supply
B.E.G	PP-DALI-PS	DALI Bus Power Supply, 120-277VAC input, 100mA bus power