

# FALCON

## LINEAR FIXTURES

Linear architectural lighting



The Falcon series is the economical and yet discrete replacement for surface mount and trim-less look of plaster-in recessed linear fixtures. They are available in 2-, 4- and 8-foot lengths to fulfill various design purpose. Furthermore, this luminaire offers a performance up to 130 LPW while showing great versatility in operating voltage from 120-347V.

# eralux®



DATE	
PROJECT NAME	
<b>TYPE</b>	
QTY	
ORDERING CODE	AE-SF-FA- - -CA010 SMT

### OPERATING & ELECTRICAL

INPUT VOLTAGE	120-347 V
POWER FACTOR	0.9
DIMMING	0-10V
TOTAL HARMONIC DISTORTION (THD)	<20% @ 120V

### PERFORMANCE

LUMENS PER WATT	88 - 108 LPW at >80CRI
POWER	18W 36W 72W
DIATRIBUTION	110° Downlight

### MECHANICAL & HOUSING

HOUSING	Extruded aluminum
LENS	PC lens
FINISH	Nebula White, Atomic Black
POWER SUPPLY	Factory wired electronic LED driver
LED BOARD	LED Array

### APPLICATION CONDITION

AMBIENT TEMPERATURE RANGE	-20°C to 45°C
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### COMPATIBLE MOUNTING

MOUNTING	Surface mount
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### WARRANTY

#### SYSTEM WARRANTY – 5 YEARS

Eralux will warrant defective drivers, LEDs and boards for 5 years from the date of purchase. This warranty is valid only if the fixture is installed and used as per installation guides and specifications. If a defect is present, Eralux will send drivers and boards at no fee with a thorough replacement instructions along with instructions on the return of the defective parts back to Eralux.

#### LUMEN MAINTENANCE – L70B50 at 50,000 hours

Rated for 70% initial lumen output at 50,000 hours of operation, operated at 25°C ambient temperature; 50% lamp maintaining rate at 50,000 hours; per guidelines published by the Illuminating Engineering Society (IES).

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## ORDERING GUIDE

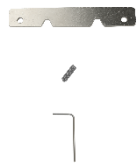

EXAMPLE: AE-SF-FA-2-18W-CA01030/40/50BKSMT

FIXTURE FAMILY	LENGTH	POWER	INPUT VOLTAGE	CONTROLS	CCT	FINISH	MOUNTING METHOD
<b>AE-SF-FA-</b>		<b>-</b>	<b>-CA</b>	<b>010</b>			<b>SMT</b>
<b>AE-SF-FA-</b> ERALUX FALCON linear architectural fixture	<b>2</b> 2' (602mm/1.9 75ft/23.71in)	<b>-18W</b> 1650-1950 lumens	<b>-CA</b> 120-347 Vac	<b>010</b> 0-10V external dimming down to 10%	<b>30/40/50</b> Dimmable & CCT Switchable: 3000K/4000K/500 0K	<b>BK</b> Atomic Black Finish	<b>SMT</b> Surface mount
	<b>4</b> 4' (1212mm/3. 976ft/47.72in)	<b>-36W</b> 3200-3850 lumens			<b>30/35/40</b> Dimmable & CCT Switchable: 3000K/3500K/400 0K		
	<b>8</b> 8' (2412mm/9 4.96ft/7.91in)	<b>-72W</b> 6400-7700 lumens					

CAUTION: If there are multiple fixtures connected to the same 0-10V dimming line, a 0-10V controller must be considered to enable consistent dimming across the fixtures. Failure to do so will lead to inconsistent dimming and behaviors in the fixtures. Single switch is not recommended for controlling multiple fixtures simultaneously.

## ACCESSORIES

Ordered separately, field installed

PART NUMBER	DESCRIPTION	PICTURE
AE-SF-FA-LINK-KIT	Linkable Metal Accessory for continuous mounting	 x2 x4 x1
AE-SF-FA-COVER-15M	49ft flexible cover for continuous run	

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## ACCESSORIES (Continued)

Ordered separately, field installed

### EMERGENCY LED DRIVER (BLD-YTXXD-XXX)

BLD-YT08D-XXX

OUTPUT POWER : 8 WATTS

BLD-YT15D-XXX

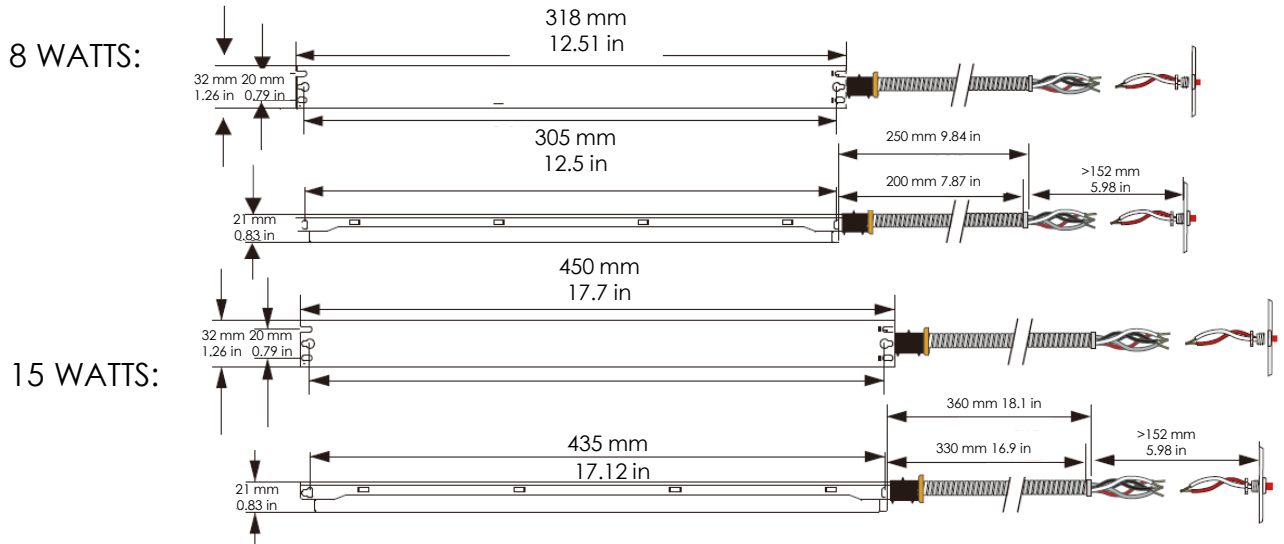
OUTPUT POWER : 15 WATTS



- Easy Wiring
- Certified For CA Title 20
- Constant Power Performance

BLD-YTXXD-XXX LED Emergency Driver is UL listed for field and factory installation that allows the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the emergency driver switches to emergency mode and operates the fixture for 90 minutes. This module will operate a LED array load at 8W or 15W with constant power at a rated output voltage of 30-60 VDC. The constant power design of BLD-YTXXD-XXX maintains the output wattage to the LED array, providing consistent illumination for the entire emergency runtime. Its slim shape is ideal for use in linear LED lighting fixtures.

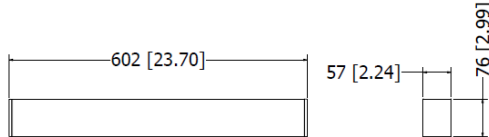
## DIMENSIONS (inches and mm)



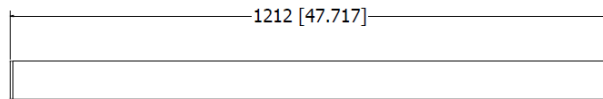
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## PRODUCT DIMENSIONS (in mm)

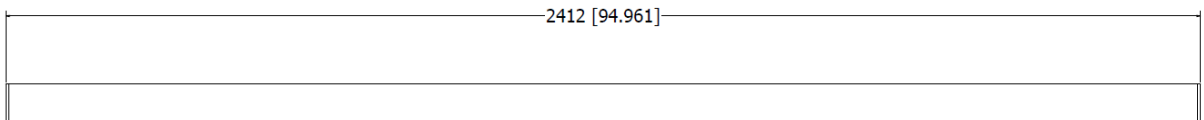
AE-SF-FA 2FT



AE-SF-FA 4FT

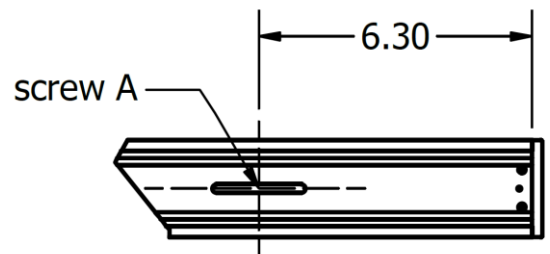
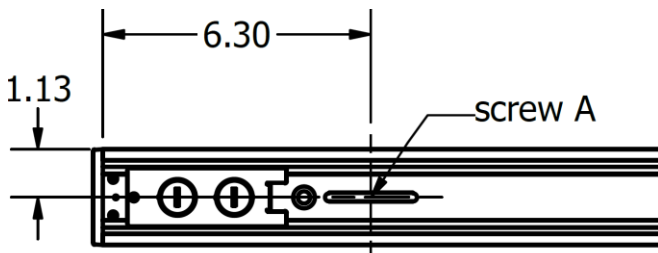


AE-SF-FA 8FT



## Screw position (in inches)

The following images show the screw position for 4ft and 8ft; 6.3 inches from the left and the right.



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## LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

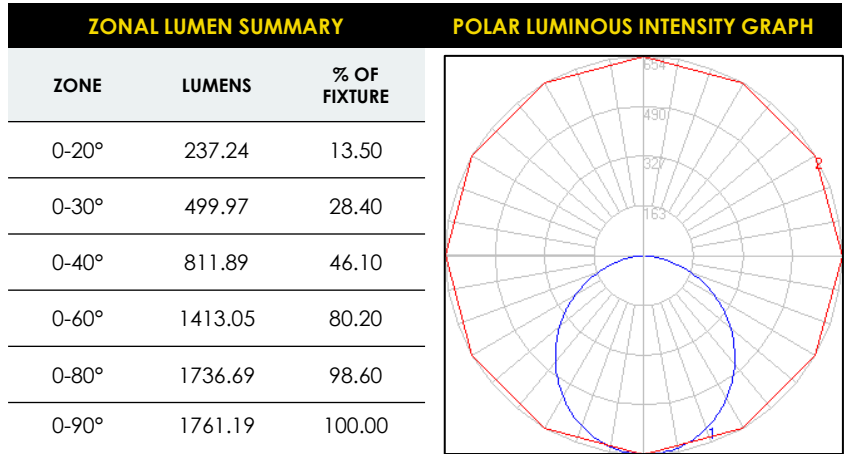
LUMEN ESTIMATE ADJUSTMENT FACTORS				
CCT	2700K	3000K	3500K	4000K
NORMAL (80CRI)	.91	.94	.97	1

## PHOTOMETRIC DATA

AE-SF-FA-2-18W-CA010(3000K)

2 FEET

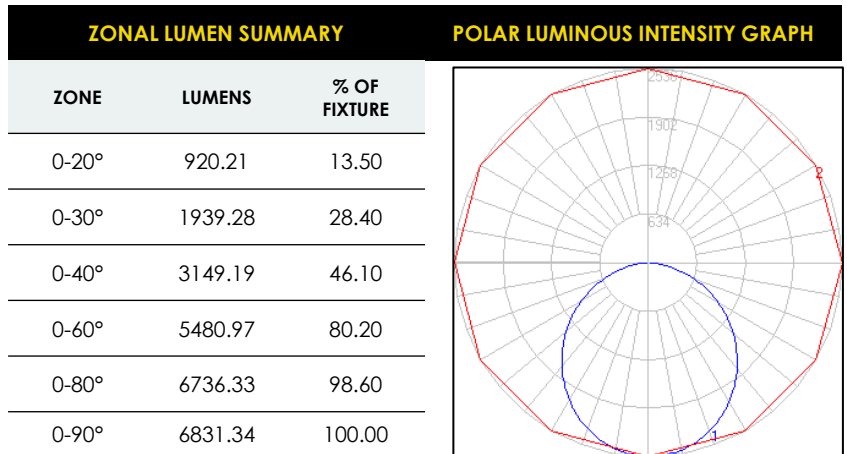
18 WATTS



AE-SF-FA-8-72W-CA010(3000K)

8 FEET

72 WATTS



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## OVERVIEW

### VARIOUS MOUNTIN METHOD

Plaster-in recessed mounting brackets allow seamless finish on walls and ceilings, providing an aesthetic look. Surface mount option allows compact lighting design for project space with low ceilings.

### MODULAR DESIGN

PC cover, PCB, and Driver are detachable for easy maintenance.

### LINKABLE FEATURE

Continuous run for up to 120ft (up to 60 units of 2ft / 30 units of 4ft / 15 units of 8ft).

### HIGH-EFFICACY

Performance up to 108 lumens per watt gives great energy savings for your project space.

### CCT SWITCHABLE

Adjustable CCT can be set in field, from 3000K, 4000K to 5000K to fulfill various indoor application scenarios.

