

FBSK - Fidelux Batten Strip Kit Series

Product Description

The FBSK series combines high performance frosted LED strips and UL class II LED drivers. The FBSK is a range of surface mounted LED luminaires designed to replace conventional T8/T5 lamps. With savings of up to 60% and up to 5 times the lamp life of T8 lamps makes it an easy choice.

Features & Benefits

- Designed to replace two lamp fluorescent strip fixtures
- Easy installation with the ability to avoid the removal of existing fixture from ceiling
- Ability to use in dry and damp locations
- Diffused lens

Applications

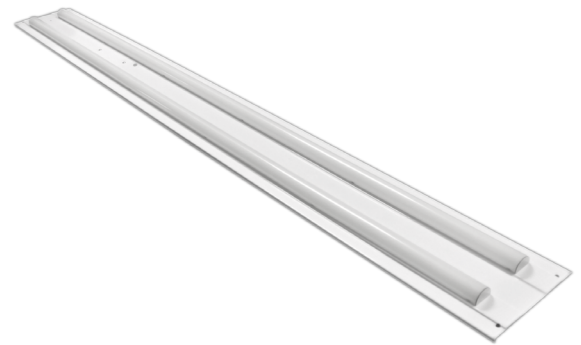
- Schools \ classrooms
- Retail stores
- Warehouses
- Office buildings
- Hallways
- Corridors
- Shops

Mounting Options

- Strip Light Retrofit Kit

Regulatory & Voluntary Qualifications

- UL, Damp location only
- Most of our products are DLC listed, qualifying them for the highest rebates. Please check individual product specs for DLC status. Refer to DLC website by clicking this link: <https://www.designlights.org>



Performance Summary

Efficacy: up to 131 l/pw

CRI: 80-82 cri

CCT: 4000K / 5000K

Dimming: 0-10v

Operating Temp: -20° - +45°C Ambient

Input Voltage: 120-277vac

Operating Frequency: 50 / 60Hz

Power Factor up to: >0.99

Dimension: 5" x 48"

5/8"L70 Lifetime Hrs : 93,000+ (TM21 Calculated)



FBSK Series Specification Summary

DATA SOURCE	LM79	LM79	DLC
Product Number	FBSK4-18W	FBSK-30W	FBSK4-40W
Efficacy l/pw (Nominal)	100	101	131
Input Power: Watts	19.3	28.4	40
Lumens @ 4000K	1919	2860	5000
Lumens @ 5000K	2098	3110	5220
CRI	82		80
THD @ 120vac	13.5%	9.2%	10%
CCT/Kelvin Temp Options	40/50 Kelvin		
Power Factor	>0.98 ~ >0.99		
Input Voltage Options	120-277vac / 50-60Hz		
Qualifications	UL, (No DLC)	UL, (No DLC)	UL, DLC 4.2
Dimming	Non Dim	Non Dim	0-10v
L70 Lifespan	93,000 + Hrs. (TM21 Calculated)		
Ambient Working Temp	-20°C to +45°C Ambient		
Max Dimensions (in)	48"	48"	48"
Total Weight	2.6 lbs	3.86 lbs	3.86 lbs
Limited Warranty	5 Yrs.		

Notes

Values are nominal unless noted +/- 5%
Specifications change without notice

FBSK Series Product Ordering Guide

Example: FBSK4-30W-40K-UNV-D

Product	CCT/Color Temp	Voltage	Controls & Dimming
FBSK4-18W	40K (4000 Kelvin)	UNV (120-277vac)	D (0-10v Dim)
FBSK4-30W	50K (5000 Kelvin)		
FBSK4-40W			

Factory Installed Accessories

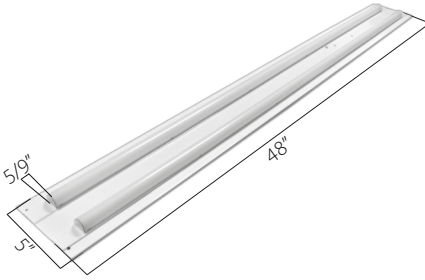
EM15 15 Watt adjustable EM driver, 90 Min (Sold as separate line item)

Field Installed Accessories / Sold Separately

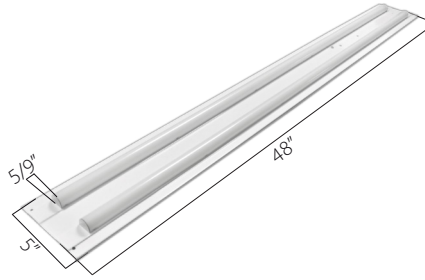
B4 4ft blank cover plate

FBSK Series Design Details & Photometry

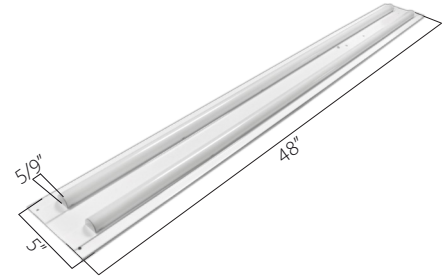
FBSK4-18W



FBSK4-30W



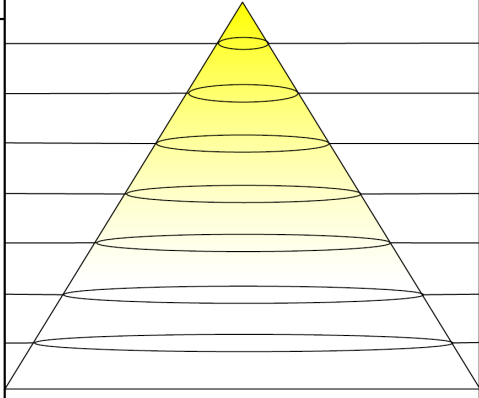
FBSK4-40W



Photometry

FBSK4-18W-40K

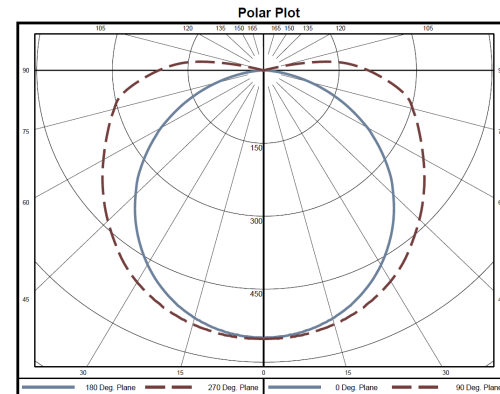
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		34.5	5.21
6.00		15.3	7.82
8.00		8.63	10.4
10.0		5.52	13.0
12.0		3.84	15.6
14.0		2.82	18.2
16.0		2.16	20.8

Beam and Field Information	
CIE Type	Direct
Center Beam Intensity	552.3 Candela
Central Cone Intensity	552 Candela
Beam Flux	1591.6 Lumens
Beam Angle (0-180)	111.0 Degrees
Field Angle (90-270)	162.3 Degrees
Field Angle (0-180)	159.2 Degrees
Field Angle (90-270)	204.1 Degrees

Zonal Lumen Summary								
Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	13.2	0.6%	60-65	141.6	6.7%	120-125	0	0.0%
5-10	39.2	1.9%	65-70	132.0	6.2%	125-130	0	0.0%
10-15	64.1	3.0%	70-75	121.2	5.7%	130-135	0	0.0%
15-20	87.2	4.1%	75-80	110.0	5.2%	135-140	0	0.0%
20-25	107.7	5.1%	80-85	96.4	4.6%	140-145	0	0.0%
25-30	125.1	5.9%	85-90	77.6	3.7%	145-150	0	0.0%
30-35	139.0	6.6%	90-95	57.6	2.7%	150-155	0	0.0%
35-40	178.7	7.0%	95-100	32.2	1.5%	155-160	0	0.0%
40-45	154.4	7.3%	100-105	7.1	0.3%	160-165	0	0.0%
45-50	156.3	7.4%	105-110	0.0	0.0%	165-170	0	0.0%
50-55	154.6	7.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	149.5	7.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	724	34.2%
0-60	1339	63.3%
0-90	2018	95.4%
90-180	97	4.6%



FBSK Series Installation Instructions

For all FBSK Series Batten Strip Kit Product

WARNING:

To avoid the risk of fire, or electric shock this product should be installed, inspected, and maintained by a qualified electrician only. Installation should be completed by an individual familiar with the construction and operation of the luminaire. Installation of luminaire must be in accordance with nation and local building and electrical codes.

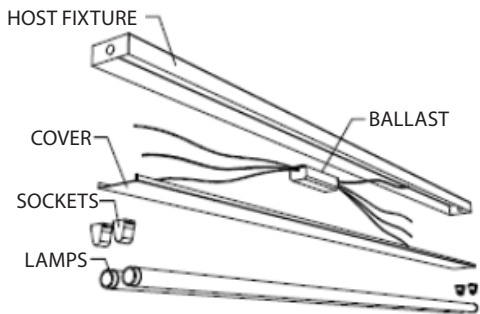
Safety Warning: To avoid electric shock: Be certain electrical power is OFF before and during installation and maintenance. Luminaire must be supplied by a wiring system with an equipment grounding conductor. To avoid burning hands: Make sure lens and housing are cool when performing maintenance. To avoid product degradation: Make sure the wire supply voltage is the same as the luminaire supply. Use proper supply wiring as specified on the luminaire nameplate. Avoid use in environments containing sulfur, chlorine, or other halides, methyl acetate or ethyl acetate, cyanoacrylates, glycol ether, formaldehyde, or butadiene.

Notes: Instructions do not cover all details and all possible product configurations. Do not restrict luminaire ventilation. Ensure LED luminaire is not covered with material that will prevent convection or conduction cooling. Ensure LED luminaire has the correct polarity before installation. Avoid exposing wiring to metal edges and sharp objects.

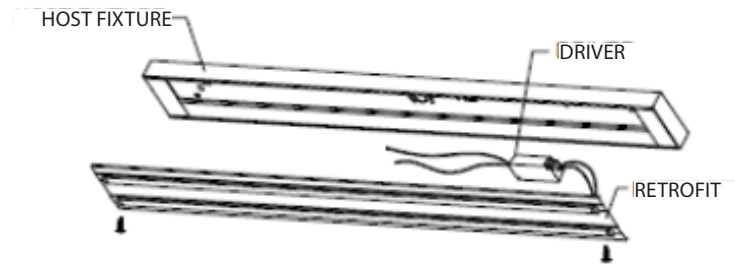
Maintenance: Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However it is recommended that checks be made at least once a year. Electrically check to make sure that all connections are clean and tight. Mechanically check that all parts are properly assembled.

Disassembly: The disassembly involves removing and discarding the ballast cover, ballast, sockets, and wiring of the host fixture. Dispose of according to state and local code requirements. Please recycle all reusable parts.

1.) Shut off power to existing fixture. Disconnect the black and the white power supply wires to existing ballast. 2.) Remove and discard the host fixture lamp(s). 3.) Remove and discard the host fixture parts.



Assembly: 1.) Make Electrical Connections: Remove the male connector from the Electrical Disconnect by pulling the two halves of the disconnect apart. Using the factory supplied wire nuts, connect the black lead from the Electrical Disconnect to the black branch wire and connect the white lead from the Electrical Disconnect to the white branch lead. 2.) Install LED Retrofit Assembly: Connect the two halves of the Electrical Disconnect and seat the LED Retrofit Assembly against the host fixture brackets while making sure that no wires are pinched in the process. 3.) Attach the retrofit kits to brackets by using self-tapping screws. 4.) Electrically activate the fixture.



Wiring Diagrams

