



Turbine C³ LED Bullet Flood Light

The EESFB1 flood light luminaire is available with a knuckle mounting feature and is designed with three optical outputs to replace HID lighting systems up to 175w MH or HPS. Typical lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting can be accomplished using ground attachment accessories and up to heights of 12 feet based on light level and uniformity requirements.

Specifications and Features:

Housing:	Die-Cast Gasketed Aluminum Housing and Front Frame with Integral Heat-Dissipating Fins for Thermal Management. Nickel-Plated Stainless Steel Hardware.
Listing & Ratings:	CSA: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.
Finish:	Textured Powdercoat Paint Over a Chromate Conversion Coating. Custom Colors Available Upon Request.
Lens:	Tempered Clear Flat Glass Lens.
Mounting Options:	Adjustable Knuckle with 1/2" NPS Threads.
COB LED:	Cool Copper COB
Wattage:	20w COB: 20w, System: 21w; (100w HID Equivalent) Note: 12V Model is 20w only. 30w COB: 30w, System: 31.8w; (175w HID Equivalent)
Driver:	Electronic Driver, 120-277V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 2kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps. 12V: Electronic Driver, 12-17VAC Input, 50/60Hz, Non-Dimmable
Warranty:	5-Year Warranty for -40°C to +50°C Environment.

See Page 2 for Projected Lumen Maintenance Table.



12V
AVAILABLE

L70 89,000 Hours
25°C



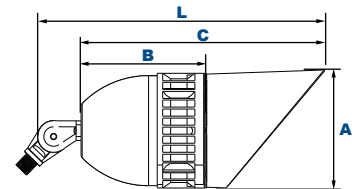
Shown with "B"
100° Wide Optic
Installed.



Shown with "D"
30° Narrow Optic
Installed.

Shown with "A" 70°, Medium Optic with "KN"
Knuckle Installed.

Dimensions	
Length (B)	6 1/4" (160mm)
Length with Visor (C)	12 1/4" (310mm)
Length with Visor & Mount (L)	14 3/4" (365mm)
Diameter (A)	5 7/8" (150mm)



Certification & Listings:



FB1					KN		
Model	Optics	Wattage	Driver	CCT	Color	Mounting	Options
EESFB1	AC3=NEMA 6H x 6V BC3=NEMA 6H x 6V DC3=NEMA 4H x 4V *See Page 2 for Distribution Information.	1X20=20w 1X30=30w	U=120-277V V=12V* *20w Model Only.	3K=3000K 41K=4100K 5K=5000K	Z=Bronze B=Black W=White G=Gray C=Custom (Consult Factory)	KN=Knuckle	SF=Single Fuse* DF=Double Fuse* SP=Surge Protection* *Not Available on 12V Model.

Order Information Example:

EESFB1BC31X20U41KZKNSP

Accessories & Replacement Parts:



Mounting Accessories (Order Separately, Field Installed)	
FLPTF*	Die-Cast Post Top Fitter for 2 1/2" to 3 1/2" Poles, Powdercoat Finish, Three (3) 1/2" Coin Plugs.
FLSTK	Heavy Duty Ground Stake, Built-in Wiring Compartment with 1/2" NPS Threaded Fitting, Black Plastic. For Line-Voltage Applications.
NA04	Plastic Ground Stake with 1/2" NPT Threads, 11" H x 3" Diameter. For Low-Voltage Applications.

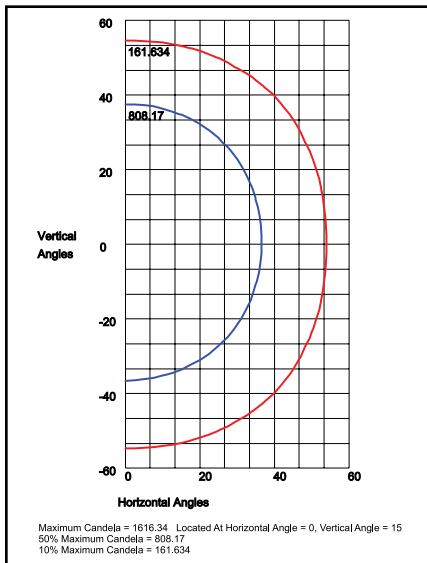
Accessories (Order Separately, Field Installed)	
FB1V*	Die-Cast Rotatable Visor, Powdercoat Finish.
NT150BK	150w, 120V Black Powdercoat Steel Landscape Transformer, 12V, with Timer and Photocell
NT300SS	300w, 120V Stainless Steel Landscape Transformer, 12V, with Timer and Photocell
NT300SSM	300w, 120V Stainless Steel Landscape Transformer, Multi-Tap 12/14/17V, with Timer and Photocell

*Specify Color: Z=Bronze, B=Black, W=White, G=Gray, C=Custom (Consult Factory)

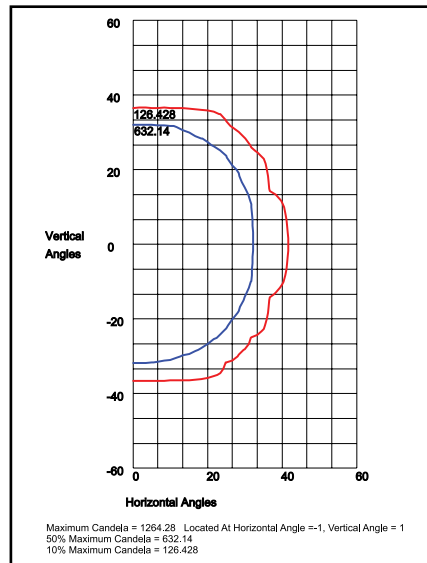
*Specify Color: Z=Bronze, B=Black, W=White, G=Gray, C=Custom (Consult Factory)

*Shown Mounted

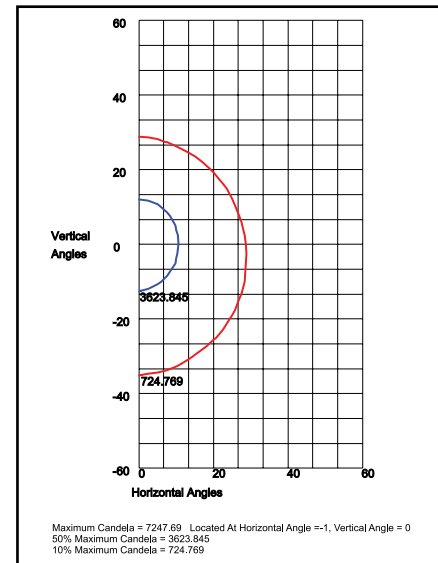
Photometric Data



EESFB1AC31X20U41K
70°H x 70°V Beam, NEMA 6H x 6V



EESFB1BC31X20U41K
100°H x 100°V Beam, NEMA 6H x 6V



EESFB1DC31X20U41K
25°H x 25°V Beam, NEMA 4H x 4V

Photometric Performance

LED COB Watts	Drive Current (mA)	Input Watts	Optic	Beam	5000 CCT 80 CRI		4100 CCT 80 CRI		
					Lumens	LPW	Lumens	LPW	
COB LED 21w	525	21	A	70°, Medium Optic	70°H x 70°V, NEMA 6H x 6V	2,295	109	2,372	113
		21	B	100°, Wide Optic	100°H x 100°V, NEMA 6H x 6V	2,331	101	2,336	111
		21	D	30°, Narrow Optic	25°H x 25°V, NEMA 4H x 4V	2,259	108	2,326	111

Projected Lumen Maintenance

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	21	1.00	0.92	0.83	0.66	89,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
L70 Lumen Maintenance @ 50°C / 122°F	21	1.00	0.90	0.81	0.62	78,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	21	1.00	0.93	0.86	0.72	72,000

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.