

L70  
25°C

89,000 Hours



FB1WQ1X16 Shown

12V  
AVAILABLE  
(C3 Only)Shown with "B"  
C3 100° Wide Optic  
Installed.Shown with "D"  
C3 30° Narrow Optic  
Installed.

## FEATURES

## Housing:

Die-Cast Gasketed Aluminum Housing and Front Frame with Integral Heat-Dissipating Fins for Thermal Management. Nickel-Plated Stainless Steel Hardware.

## Listing &amp; Ratings:

ETL: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.

## Finish:

Textured Architectural Bronze Powdercoat Finish 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.

## LED:

Cool Copper COB (20W)  
EasyLED Array (16W)

## Wattage:

20 Watt COB, 21 Watt Input; Wide (B) or Narrow (D) Only  
16 Watt Array, 17 Watt Input

## 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 Micro-amps.

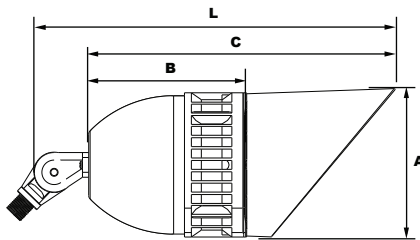
**12V:** Electronic Driver, 12-17VAC Input, 50/60Hz, Non-Dimmable (C3 Only)

## Warranty:

5-Year Warranty for -40°C to +50°C Environment. See Page 2 for Projected Lumen Maintenance Table.

## Dimensions

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



## PRODUCT DESCRIPTION

The FB1 flood light luminaire is available with a knuckle mounting feature and is designed with three optical outputs to replace HID lighting systems up to 100w 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.

## ORDERING INFORMATION

EXAMPLE: FB1MQ1X16U3K-Z-KN



DesignLights Consortium™  
Qualified Luminaires:  
FB1BC31X20U41K\*\*\*  
FB1DC31X20U41K\*\*\*



Model	Color	Mounting	Options
<b>Turbine EasyLED Bullet</b> FB1WQ1X16U3K=Turbine EasyLED Bullet, 16W, Wide 100° Beam, 120-277V, 3K FB1MQ1X16U3K=Turbine EasyLED Bullet, 16W, Medium 70° Beam, 120-277V, 3K FB1NQ1X16U3K=Turbine EasyLED Bullet, 16W, Narrow 30° Beam, 120-277V, 3K FB1WQ1X16U4K=Turbine EasyLED Bullet, 16W, Wide 100° Beam, 120-277V, 4K FB1MQ1X16U4K=Turbine EasyLED Bullet, 16W, Medium 70° Beam, 120-277V, 4K FB1NQ1X16U4K=Turbine EasyLED Bullet, 16W, Narrow 30° Beam, 120-277V, 4K FB1WQ1X16U5K=Turbine EasyLED Bullet, 16W, Wide 100° Beam, 120-277V, 4K FB1MQ1X16U5K=Turbine EasyLED Bullet, 16W, Medium 70° Beam, 120-277V, 4K FB1NQ1X16U5K=Turbine EasyLED Bullet, 16W, Narrow 30° Beam, 120-277V, 4K <b>Turbine C3 COB LED Bullet</b> FB1BC31X20U41K=Turbine C3 LED Bullet, 20W, Wide 100° Beam, 120-277V, 41K FB1BC31X20V41K=Turbine C3 LED Bullet, 20W, Wide 100° Beam, 12V, 41K * FB1DC31X20U41K=Turbine C3 LED Bullet, 20W, Narrow 30° Beam, 120-277V, 41K FB1DC31X20V41K=Turbine C3 LED Bullet, 20W, Narrow 30° Beam, 12V, 41K * * 12V ONLY Available for this model	Z = Bronze C = Custom (Consult Factory)	KN = 1/2" NPS Knuckle	SF=Single Fuse* DF=Double Fuse* SP=Surge Protection*  *Not Available on 12V Model. ♦120-277V Models Only.

## ACCESSORIES &amp; REPLACEMENT PARTS

Mounting Accessories  
(Order Separately, Field Installed)

FLPTFZ	Die-cast Post Top Fitter for 2¾" to 3½" Poles, Bronze Powdercoat Finish, Three (3) ½" Coin Plugs.
FLSTK	Heavy Duty Ground Stake, Built-in Wiring Compartment with ½" NPS Threaded Fitting, Black Plastic. For Line-Voltage Applications.
NA04	Plastic Ground Stake with ½" NPT Threads, 11" H x 3" Diameter. For Low-Voltage Applications.

Accessories  
(Order Separately, Field Installed)

FB1VZ	Die-Cast Rotatable Visor, Bronze Powdercoat Finish.
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FB1VZ\*

\*Shown Mounted

## PHOTOMETRIC PERFORMANCE

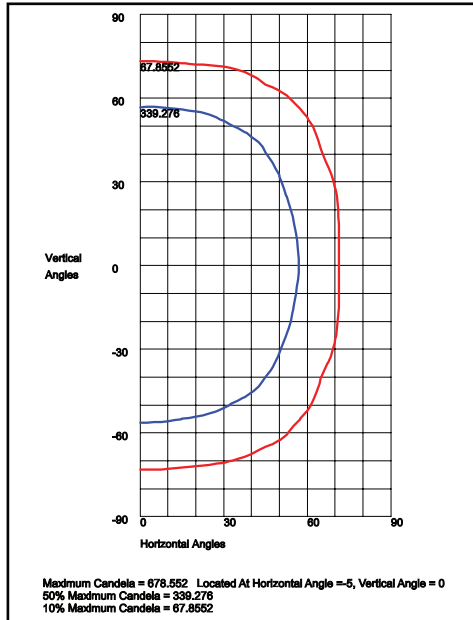
			5000 CCT 80 CRI	4000 CCT 80 CRI	3000 CCT 80 CRI
Wattage (Catalog Logic)	Optic	Beam	Lumens	Lumens	Lumens
FB1Q1X16	W - 112° Wide	112°H x 112°V, NEMA 7H x 7V	1,876	1,807	1,751
	M - 65° Medium	90°H x 40°V, NEMA 7H x 6V	1,870	1,801	1,745
	N - 32° Narrow	32°H x 32°V, NEMA 4H x 4V	2,234	2,152	2,085
FB1C31X20	B - 100° Wide	100°H x 100°V, NEMA 6H x 6V		2,336	
	D - 30° Narrow	30°H x 30°V, NEMA 4H x 4V		2,326	

## PROJECTED LUMEN MAINTENANCE

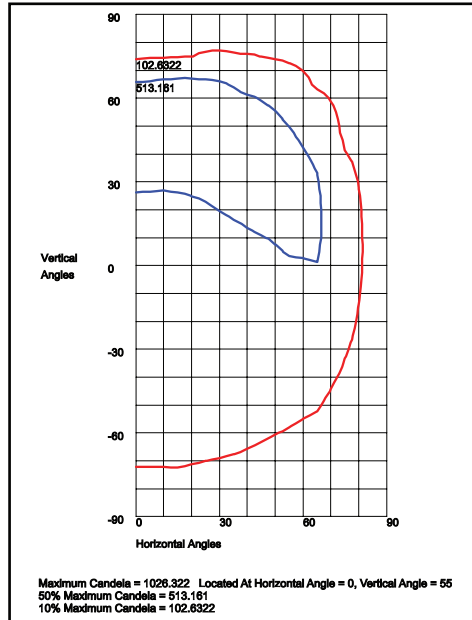
Data Shown for All Models		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	17-21	1.00	0.92	0.83	0.66	89,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.90	0.81	0.62	78,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.93	0.86	0.72	72,000

**NOTES:**  
 1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 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.

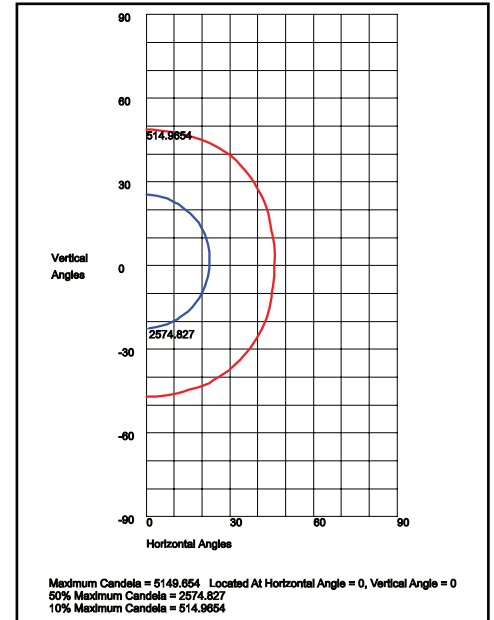
### PHOTOMETRIC DATA



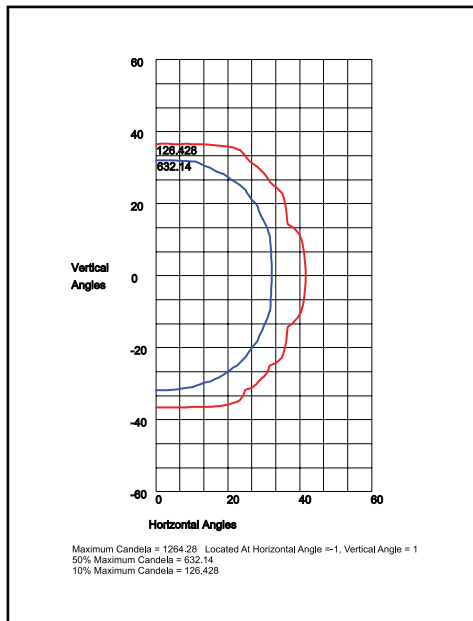
**FB1WQ1X16U5K**  
112°H x 112°V, NEMA 7H x 7V



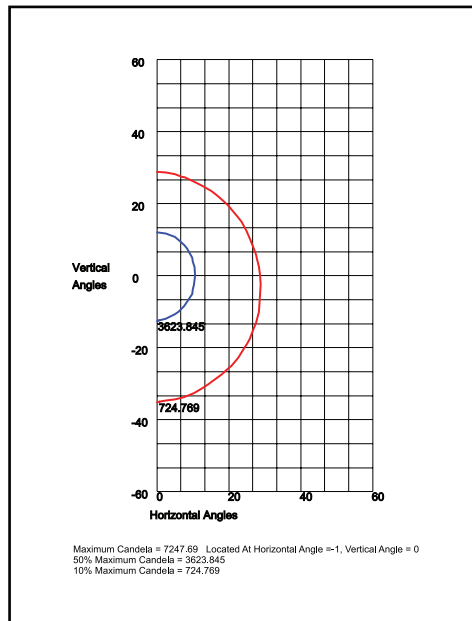
**FB1MQ1X16U5K**  
90°H x 40°V, NEMA 7H x 6V



**FB1NQ1X16U5K**  
32°H x 32°V, NEMA 4H x 4V



**FB1BC31X20U41K**  
100°H x 100°V Beam, NEMA 6H x 6V



**FB1DC31X20U41K**  
25°H x 25°V Beam, NEMA 4H x 4V