

TEFA, CONA & LUVO Round Flat Top Bollards

L70
25°C **147,000 Hours**

The TEFA, CONA & LUVO Turtle & Wildlife Friendly Bollards are designed to replace HID lighting systems up to 70w MH or HPS for wildlife or security applications requiring monochromatic AMBER light. LEDs operate between 585 and 595nm, greater than 560nm required for wildlife protection. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

Specifications and Features:

Housing:

Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Flat Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.

Listing & Ratings:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750;
IP65 Sealed LED Compartment.

Finish:

Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Style:

IES Type III or V Clear Prismatic Borosilicate Glass Refractor, Specially Designed Aluminum Cone Reflector or Internal Louvers

Lens:

Clear Polycarbonate Vandal-Resistant Lens

Mounting Options:

Mounting Kit with 8" Anchor Bolts, Included.

LED:

Aluminum Boards

Wattage:

Array: 14.5w, System: 17w; (70w 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.

Warranty:

5-Year Warranty for -40°C to +40°C Environment.

See Page 2 for Projected Lumen Maintenance Table.



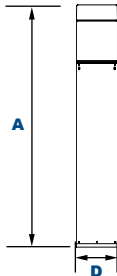
IES Type III & V Glass
AF33XB0FG3Q &
AF33XB0FG5Q



LED Cone Reflector
AF33XB0FRLQ



Louvers
AF33XB0FLQ



Dimensions

Diameter (D)	7" (178mm)
Height (A)	41 1/8" (1,057mm)

Order Information Example:

AF33XB0FG3QF1X15UAMZ36SF

Model	F	1X15	U	AM	Color	Height	Options
AF33XB0FG3Q=Round Flat Top Bollard with IES Type III Glass AF33XB0FG5Q=Round Flat Top Bollard with IES Type V Glass AF33XB0FRLQ=Round Flat Top Bollard with LED Cone Reflector AF33XB0FLQ=Round Flat Top Bollard with Louvers	F=Wide Beam Spread	1X15=15w	U=120-277V	AM=Amber	Z=Bronze B=Black C=Custom (Consult Factory)	(Leave Blank)= 42" Standard Height 36=36" Height 30=30" Height	SF=Single Fuse DF=Double Fuse SP=Surge Protection GF1=GFCI Outlet, 15A, 120V GSB=180° Glare Shield, Black GSZ=180° Glare Shield, Bronze GSC=180° Glare Shield, Custom Color, Consult Factory BU=Battery Backup, 90 Minutes

Project Information:

Project Name: _____ Fixture Type: _____

Complete Catalog #: _____ Date: _____

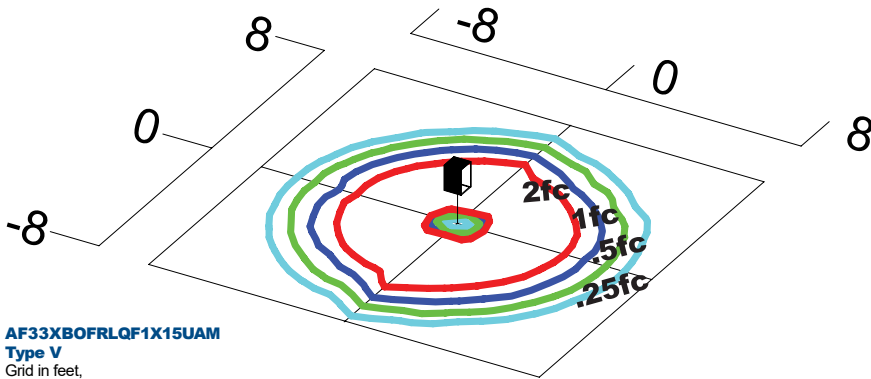
Comments: _____

Certification & Listings:

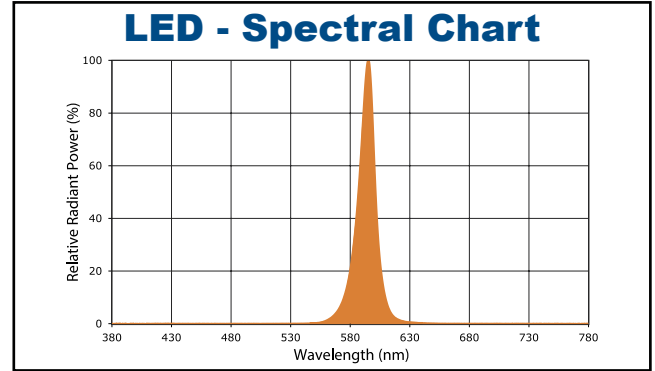


Specifications subject to change without notice. Rev. 043018

Photometric Data



AF33XBOFRLQF1X15UAM
Type V
Grid in feet,
Mounting Height = 3.5 ft.



Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	Amber LEDs				
				Lumens	LPW	B	U	G
15w	116	17	BOFG3 Type III Glass	277	16	0	2	0
			BOFG5 Type V Glass	270	16	0	2	0
			BOFL Louvers	187	11	0	1	0
			BOFRL Cone Reflector	360	21	0	2	0

Projected Lumen Maintenance

Data shown for Amber LEDs			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	17	1.00	0.95	0.90	0.80	147,000	
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	17	1.00	0.89	0.78	0.55	67,000	
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	17	1.00	0.92	0.85	0.70	66,000	

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA 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.