

LIGHTING & ELECTRICAL PRODUCTS GROUP

CONA, TEFA, and LUVO Round Flat Top Bollards



L70
25°C **147,000 Hours**

The TEFA, CONA, and LUVO round flat top bollard with choice of optics and lenses are designed to replace HID lighting systems up to 70w MH or HPS. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.



NEW Soft Shine Low Glare White Cone Reflector
Daytime View Nighttime View
(Dome Top Shown for Visual Concept)



Glass BOFGQ



LED Cone Reflector Shown with Glare Shield BOFRLQ



Louvers BOFLQ



SoftLED LumaLens Opal Array Lens



Shown with "S3" Sensor



Shown with GFCI

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:

Clear Prismatic Borosilicate Glass Refractor, Specially Designed Cone Reflector or Internal Louvers

Lens:

Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens or SoftLED LumaLens UV-Stabilized Polycarbonate Opal Vandal-Resistant Lens

Mounting Options:

Mounting Kit with 8" Zinc-Plated Anchor Bolts, Included.

EasyLED LED:

Aluminum Boards

Wattage:

Array: 10w, System: 11.3w; (70w HID Equivalent)
Array: 14.5w, System: 17w; (70w HID Equivalent)
Array: 22w, System: 23.8w; (70w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz (15w Only); 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.

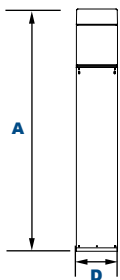
Controls:

Fixtures Ordered with Factory-Installed Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with LEPC Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Warranty:

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

See Page 4 for Projected Lumen Maintenance Table.



Dimensions

Diameter (D)	7" (178mm)
Height (A)	41 1/2" (1,057mm)

Project Information:

Project Name: _____ Fixture Type: _____
 Complete Catalog #: _____ Date: _____
 Comments: _____

Certification & Listings:



Specifications subject to change without notice. Rev. 021721

Order Information Example:		BOFRLQF1X22U5KZ36SF						
Model	Optics	Wattage	Driver	CCT	Lens	Color	Height	Options
BOFRWQ =Round Flat Top Bollard with Soft Shine Low Glare White Cone Reflector BOFRLQ =Round Flat Top Bollard with LED Cone Reflector BOFGQ =Round Flat Top Bollard with Glass BOFLQ =Round Flat Top Bollard with Louvers	C =Type III* F =Wide Beam Spread * BOFRWQ, BOFRLQ & BOFGQ only	1X10 =10w 1X15 =15w 1X22 =22w	U =120-277V C =347V* *15w Model Only	3K =3000K 4K =4000K 5K =5000K	(Leave Blank) =Clear Lens L =SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* *Type V White Cone Reflector Only	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) S3 =Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details. BU =Battery Backup, 90 Minutes* BUC =Cold Start Battery Backup, -20°C, 90 Minutes* *120-277V Models Only.

Accessories & Replacement Parts:

Mounting Accessories (Order Separately, Field Installed)	
BOLAN4	Mounting Kit, Includes Bracket & Three (3) 4" Zinc-Plated Anchor Bolts
BOLAN8	Mounting Kit, Includes Bracket & Three (3) 8" Zinc-Plated Anchor Bolts
BOLAN12	Mounting Kit, Includes Bracket & Three (3) 12" Zinc-Plated Anchor Bolts
BOLAN15	Mounting Kit, Includes Bracket & Three (3) 15" Zinc-Plated Anchor Bolts
BREBASE*	Bollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Fits all LEPG Bollards. Die Cast with Powdercoat Finish, Hardware Included. 1 1/2" Dia. x 1 1/2" H

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

Accessories (Order Separately, Field Installed)	
P17122	Remote Programming Tool for P17121

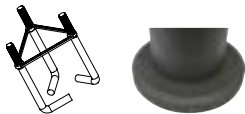


P17122

Replacement Parts (Order Separately, Field Installed)	
P17121	Internal Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details.
BOLPC	Replacement Round UV-Stabilized Polycarbonate Vandal-Resistant Lens
BOLPCLL	Replacement SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens
BORBASE*	Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating.
BOADP1	Adapter Plate with Gaskets for Outlet Boxes. Fits LEPG Round Bollards. Die Cast with Bronze Powdercoat Finish.

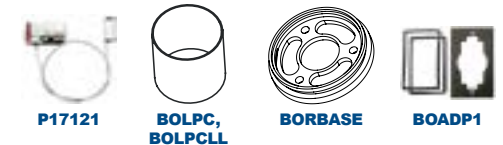
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)

For Replacement Battery Backup, see the LEPG LED Battery Backup Specification Sheet.



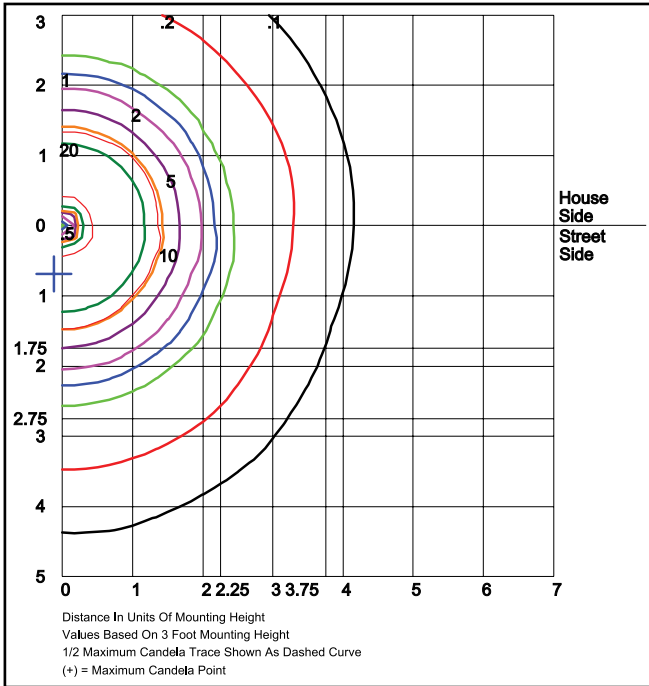
BOLAN **BREBASE***

*Shown Mounted



P17121 **BOLPC, BOLPCLL** **BORBASE** **BOADP1**

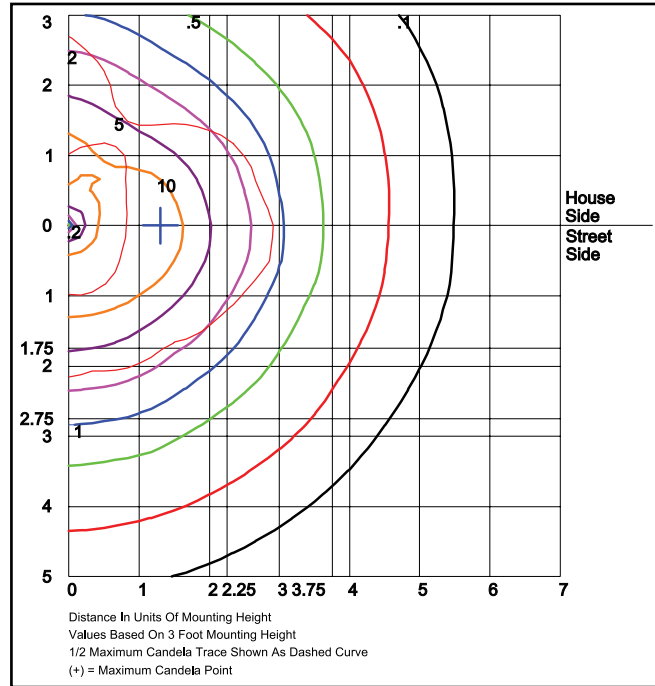
Photometric Data



BOFRWQF1X22U5K & BOFRLQF1X22U5K

Type V

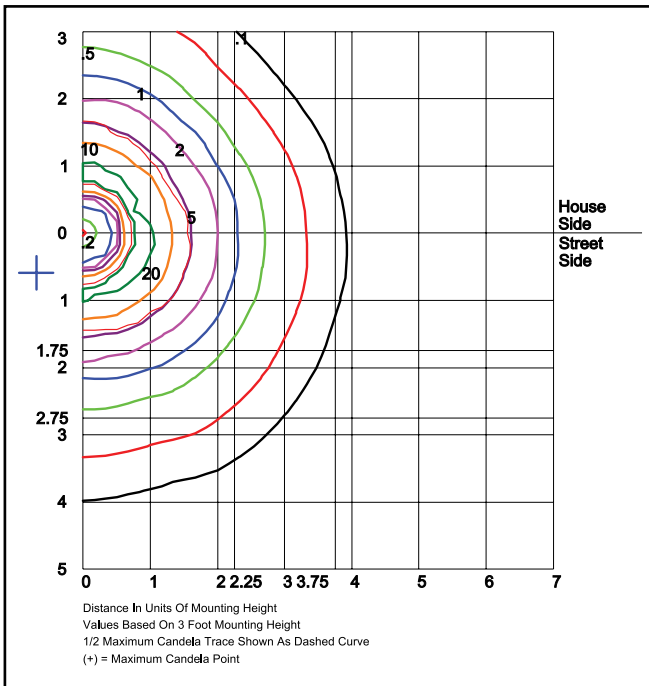
Grid in feet, Mounting Height = 3 ft.



BOFGQC1X22U5K

Type III

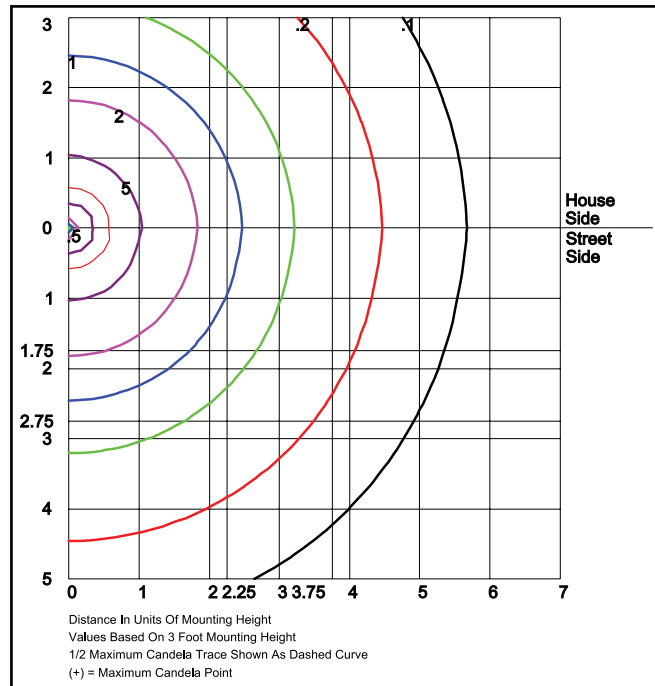
Grid in feet, Mounting Height = 3 ft.



BOFLQF1X22U5K

Type V

Grid in feet, Mounting Height = 3 ft.



BOFRWQF1X22U5KL, LumaLens

Type V

Grid in feet, Mounting Height = 3 ft.

Specifications subject to change without notice. Rev. 021721

Photometric Performance

Optic	CCT	Wattage (Catalog Logic)		
		10W (1X22)	15W (1X15)	20W (1X22)
		Input Watts		
		11.3W	15.9W	23.8W
		Delivered Lumens		
BOFRWQ & BOFRLQ Cone Reflector C=Type III Optic	3000K	738	1,033	1,549
	4000K	800	1,120	1,680
	5000K	834	1,167	1,750
	BUG Rating	B0-U2-G1	B1-U3-G1	B1-U3-G1
BOFRWQ & BOFRLQ Cone Reflector F=Type V Optic	3000K	1,037	1,452	2,178
	4000K	1,125	1,575	2,362
	5000K	1,172	1,641	2,461
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
BOFGQ Glass C=Type III Optic	3000K	787	1,101	1,652
	4000K	853	1,195	1,792
	5000K	889	1,245	1,867
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
BOFGQ Glass F=Type V Optic	3000K	768	1,076	1,613
	4000K	833	1,167	1,750
	5000K	868	1,215	1,823
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
BOFLQ Louvers F=Type V Optic Only	3000K	531	744	1,116
	4000K	576	807	1,211
	5000K	600	841	1,261
	BUG Rating	B0-U2-G0	B1-U2-G1	B1-U3-G1

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 LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 24w	1.00	0.95	0.90	0.80	147,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.89	0.78	0.55	67,000
L80 Lumen Maintenance @ 40°C / 104°F		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.