

# EasyLED Round Flat Bollards

L70  
25°C 147,000 Hours



The Jemm EasyLED Bollards with choice of optics and lenses are designed to replace HID lighting systems up to 100w 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 BFG**



**LED Cone Reflector Shown with Glare Shield BFR**



**Louvers BFL**



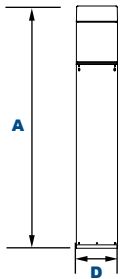
**SoftLED LumaLens Opal Array Lens**



**Shown with "S3" Sensor**



**Shown with GFCI**



### Dimensions

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

### 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; (50w HID Equivalent)  
Array: 14.5w, System: 17w; (70w HID Equivalent)  
Array: 22w, System: 23.8w; (100w 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.

### Project Information:

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

### Certification & Listings:



### Order Information Example:

**BFRF15U5KZ36SF**

Model	Optics	Wattage	Driver	CCT	Lens	Color	Height	Options
<b>BFRW</b> =Round Flat Top Bollard with Soft Shine Low Glare White Cone Reflector <b>BFR</b> =Round Flat Top Bollard with LED Cone Reflector <b>BFG</b> =Round Flat Top Bollard with Glass <b>BFL</b> =Round Flat Top Bollard with Louvers	<b>C</b> =Type III* <b>F</b> =Wide Beam Spread  <b>* BOFRWQ, BOFRLQ &amp; BOFGQ only</b>	<b>1X10</b> =10w <b>1X15</b> =15w <b>1X22</b> =22w	<b>U</b> =120-277V <b>C</b> =347V*  <b>*15w Model Only</b>	<b>3K</b> =3000K <b>4K</b> =4000K <b>5K</b> =5000K	<b>(Leave Blank)</b> = Clear Lens <b>L</b> =SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens*  <b>*Type V White Cone Reflector Only</b>	<b>Z</b> =Bronze <b>B</b> =Black <b>C</b> =Custom (Consult Factory)	<b>(Leave Blank)</b> = 42" Standard Height <b>36</b> =36" Height <b>30</b> =30" Height	<b>SF</b> =Single Fuse* <b>DF</b> =Double Fuse* <b>SP</b> =Surge Protection <b>GF1</b> =GFCI Outlet, 15A, 120V <b>GSB</b> =180° Glare Shield, Black <b>GSZ</b> =180° Glare Shield, Bronze <b>GSC</b> =180° Glare Shield, Custom Color (Consult Factory) <b>S3</b> =Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details. <b>BU</b> =Battery Backup, 90 Minutes*  <b>*120-277V Models Only.</b>

### 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)



**BOLAN**      **BREBASE\***

\*Shown Mounted

#### 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.

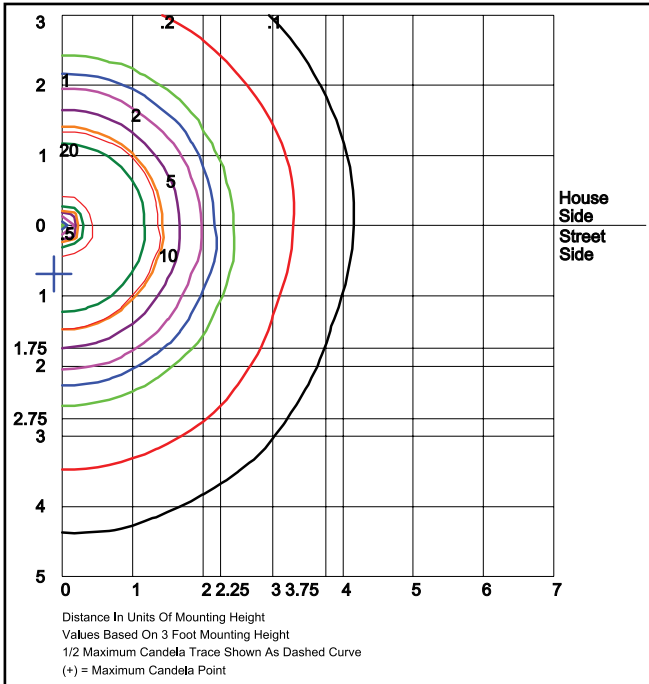
\*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)

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



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

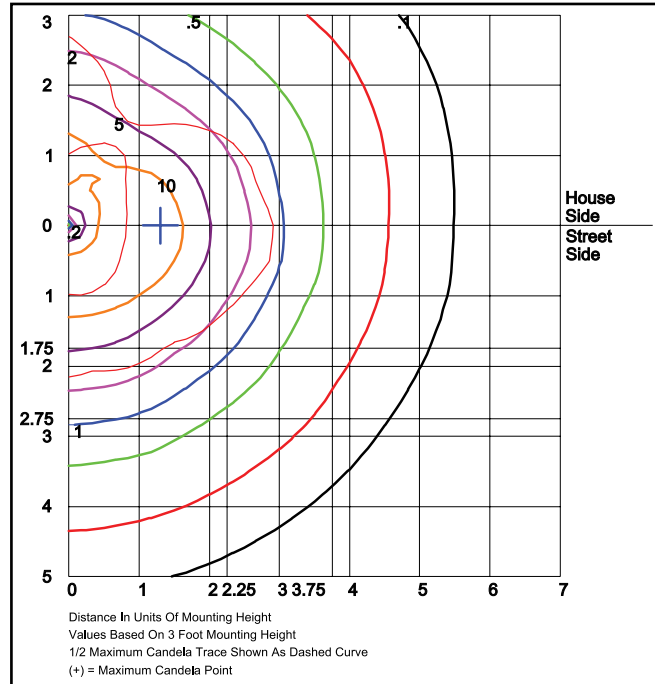
## Photometric Data



**BFRW22U5K & BFRF22U5K**

Type V

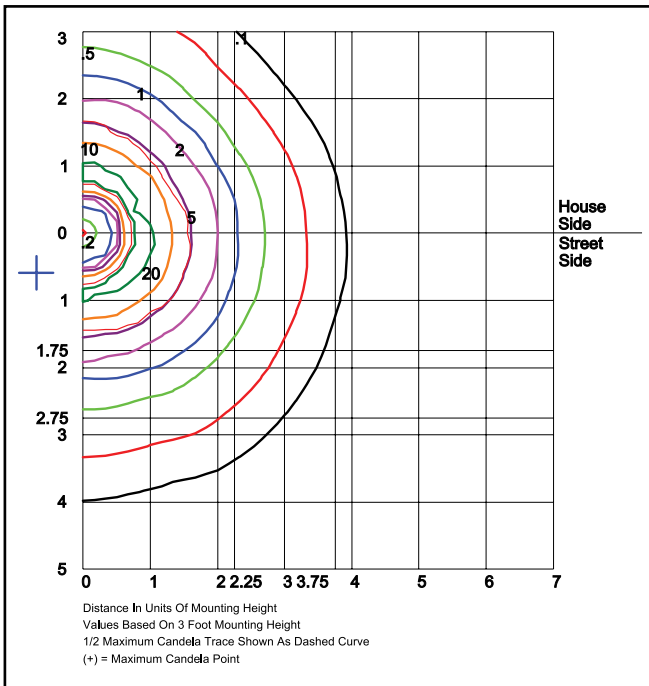
Grid in feet, Mounting Height = 3 ft.



**BFGC22U5K**

Type III

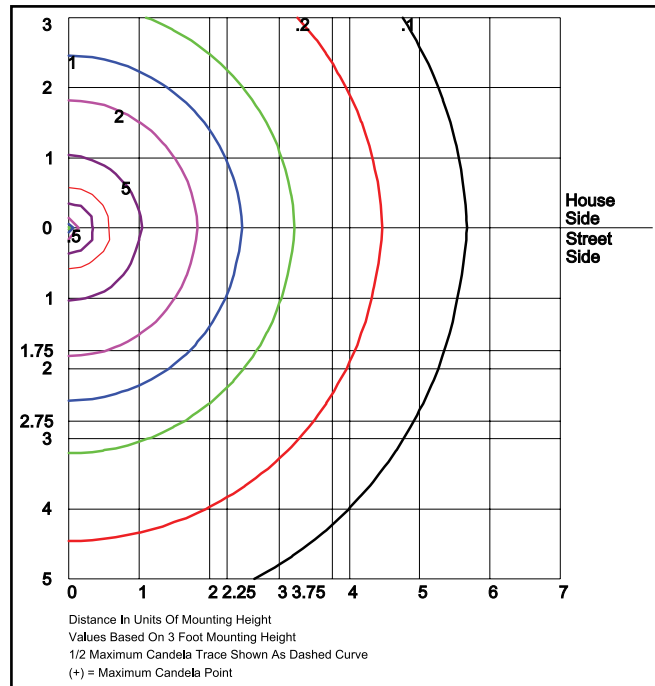
Grid in feet, Mounting Height = 3 ft.



**BFLF22U5K**

Type V

Grid in feet, Mounting Height = 3 ft.



**BFRWF22U5KL**

LumaLens Type V

Grid in feet, Mounting Height = 3 ft.

**Photometric Performance**

Optic	Wattage (Catalog Logic)	10W (1X10)	15W (1X15)	20W (1X22)
	Input Watts	11.3W	15.9W	23.8W
	CCT	Delivered Lumens		
<b>BFRWF &amp; BFRF Cone Reflector C=Type III Optic</b>	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
<b>BFRWF &amp; BFRF Cone Reflector F=Type V Optic</b>	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
<b>BFGC Glass C=Type III Optic</b>	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
<b>BFGF Glass F=Type V Optic</b>	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
<b>BFL Louvers F=Type V Optic Only</b>	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
<b>L70 Lumen Maintenance @ 25°C / 77°F</b>	All wattages up to and including 24w	1.00	0.95	0.90	0.80	147,000
<b>L70 Lumen Maintenance @ 50°C / 122°F</b>		1.00	0.89	0.78	0.55	67,000
<b>L80 Lumen Maintenance @ 40°C / 104°F</b>		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.