

HBOR ROUND DOME BOLLARDS



EasyLED Bollards with choice of optics and lenses and lenses are designed to replace HID lighting systems up to 70w MH or HPS. 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, Domed 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 Controls found on page 2 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.

Certification & Listings:



NEW Soft Shine Low Glare White Cone Reflector
Daytime View Nighttime View



Glass



LED Cone Reflector
Shown with Glare Shield
HBORLQ



Louvers
HBOLQ



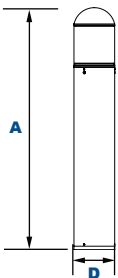
SoftLED LumaLens
Opal Array Lens



Shown with "S3"
Sensor



Shown with GFCI



Dimensions

Diameter (D)	7" (178mm)
Height (A)	42 1/4" (1,073mm)



Order Information Example:
HBORLQF1X22U5KZ36SF

Model	Optics	Wattage	Driver	CCT	Lens	Color	Height	Options
HBORWQ =Round Dome Bollard with Soft Shine Low Glare White Cone Reflector HBORLQ =Round Dome Bollard with LED Cone Reflector HBOGQ =Round Dome Bollard with Glass HBOLQ =Round Dome Bollard with Louvers	C =Type III* F =Wide Beam Spread *HBORWQ, HBORLQ & HBOGQ 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)


BOLAN

BREBASE*

*Shown Mounted

Accessories

(Order Separately, Field Installed)

P17122	Remote Programming Tool for P17121
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P17122
Replacement Parts

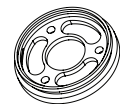
(Order Separately, Field Installed)

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)

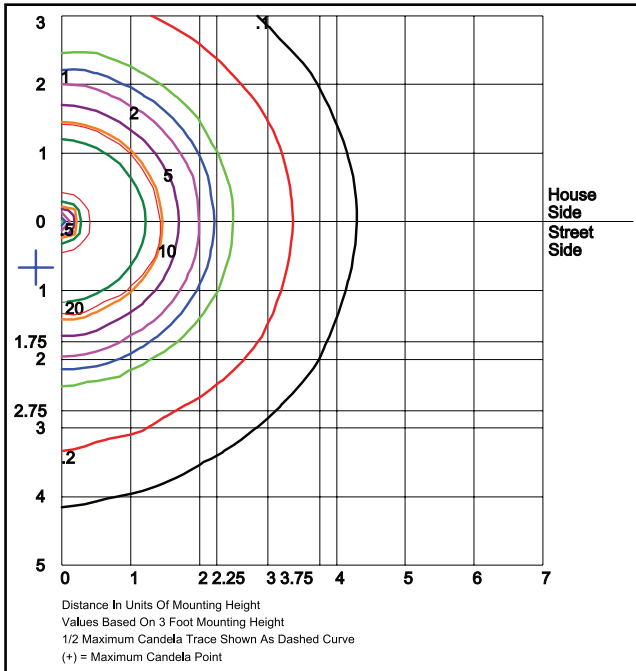
For Replacement Battery Backup, see the LEPG LED Battery Backup Specification Sheet.


P17121

BOLPC, BOLPCLL

BORBASE

BOADP1

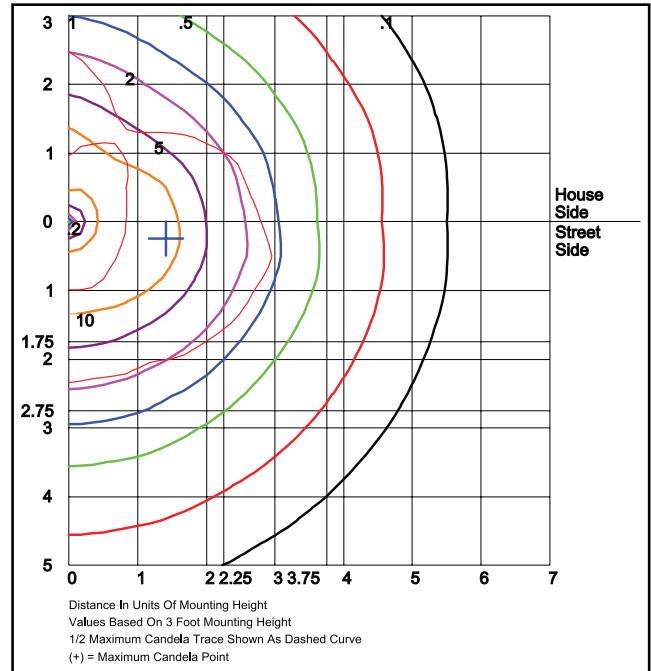
Photometric Data



HBORWQF1X22U5K & HBORLQF1X22U5K

Type V

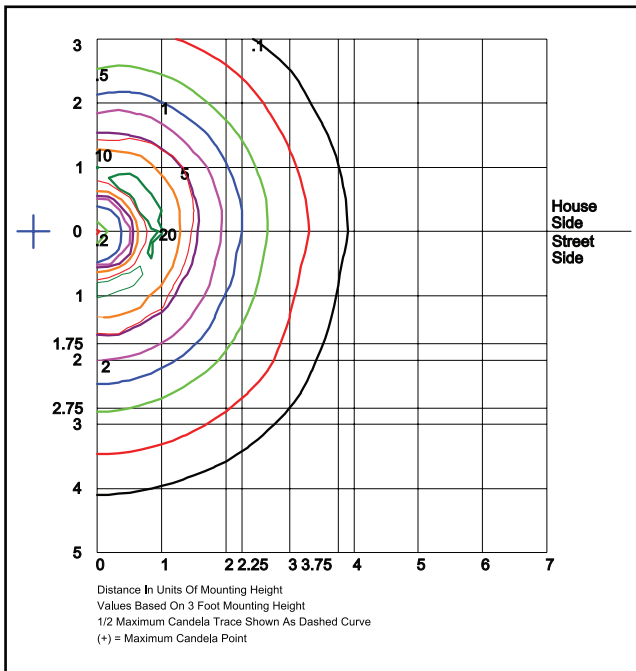
Grid in feet, Mounting Height = 3 ft.



HBOGQC1X22U5K

Type III

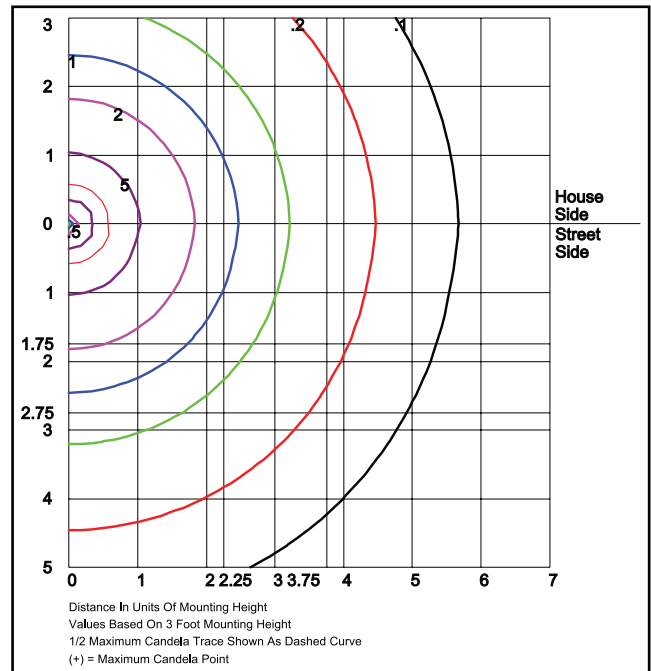
Grid in feet, Mounting Height = 3 ft.



HBOLQF1X22U5K

Type V

Grid in feet, Mounting Height = 3 ft.



HBORWQF1X22U5KL, LumaLens

Type V

Grid in feet, Mounting Height = 3 ft.



Job Name: _____

Type: _____

Part #: _____

Notes: _____

Photometric Performance

Optic	CCT	Wattage (Catalog Logic)			
		10W (1X22)	15W (1X15)	20W (1X22)	
		Input Watts	11.3W	15.9W	23.8W
		Delivered Lumens			
HBORWQ & HBORLQ 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	
HBORWQ & HBORLQ Cone Reflector F=Type V Optic	3000K	1,031	1,444	2,165	
	4000K	1,119	1,566	2,349	
	5000K	1,165	1,631	2,447	
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1	
HBOGQ Glass C=Type III Optic	3000K	789	1,105	1,657	
	4000K	856	1,199	1,798	
	5000K	892	1,249	1,873	
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1	
HBOGQ Glass F=Type V Optic	3000K	773	1,082	1,622	
	4000K	838	1,173	1,760	
	5000K	873	1,222	1,833	
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1	
HBOLQ Louvers F=Type V Optic Only	3000K	521	730	1,094	
	4000K	565	791	1,187	
	5000K	589	824	1,236	
	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.