EasyLED Square Flat Bollards

L70 25°C **147,000 Hours**

Glass
BSG

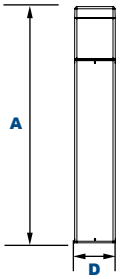
Shown with "S3" Sensor

BUY AMERICAN ACT COMPLIANT

LED Cone Reflector
BSR

Shown with GFCI

Square Louvers
BSLS



Dimensions	
Length (D)	7″ (177mm)
Height (A)	41⅜″ (1,051mm)

EasyLED Technology

The Jemm EasyLED Bollards with choice of optics 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.

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

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; (100w 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 LEPG 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 2 for Projected Lumen Maintenance Table.

Order Information Example: BSRF22U5KZ36SF

Model	Optics	Wattage	Driver	CCT	Color	Height	Options
BSG=Square Flat Bollard with Glass **BSR**=Square Flat Bollard with LED Cone Reflector **BSRW**=Square Flat Bollard with White LED Cone Reflector **BSLS**=Square Flat Bollard with Square Louvers	**C**=Type III* **F**=Wide Beam Spread *BSG, BSR and BSRW only	**1X10**=10w **1X15**=15w **1X22**=22w	**U**=120-277V **C**=347V* *15w Model Only	**3K**=3000K **4K**=4000K **5K**=5000K	**Z**=Bronze **B**=Black **C**=Custom (Consult Factory)	**(Leave Blank)**= 42" Standard Height **36**=36" Height **30**=30" Height	**SF**=Single Fuse (120-277V Only) **DF**=Double Fuse (120-277V Only) **SP**=Surge Protection **GF1**=GFCI Outlet, 15A, 120V **S3**=Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details. **BU**=Battery Backup, 90 Minutes

Project Information:

Project Name:

Fixture Type:

Complete Catalog #:

Date:

Comments:

Certification & Listings:

IP65

Specifications subject to change without notice. Rev. 072720

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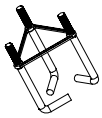
Accessories & Replacement Parts:

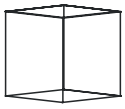


BOLAN

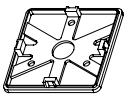
BREBASE*

P17122

P17121



BOLPCS



BOSEBASE

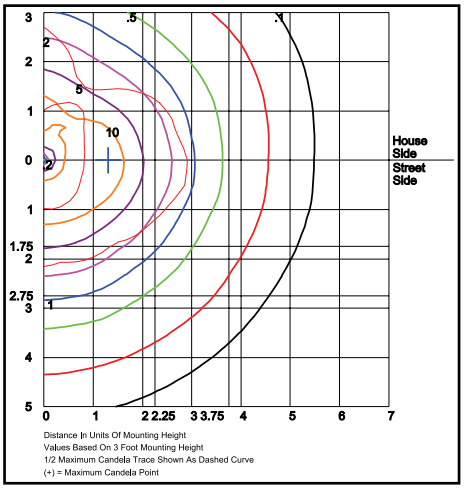
*Shown Mounted

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. 11½″ Dia. x 1½″ H
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)	

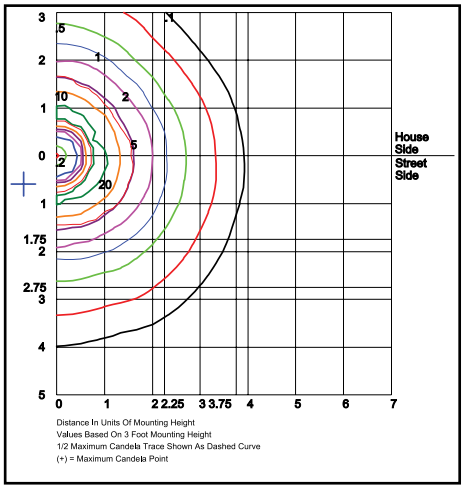
Accessories (Order Separately, Field Installed)	
P17122	Remote Programming Tool for P17121

Replacement Parts (Order Separately, Field Installed)	
P17121	Internal Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details.
BOLPCS	Replacement Square UV-Stabilized Polycarbonate Vandal-Resistant Lens
BOSBASE*	Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating.
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)	
For Replacement Battery Backup, see the LEPG LED Battery Backup Specification Sheet.	

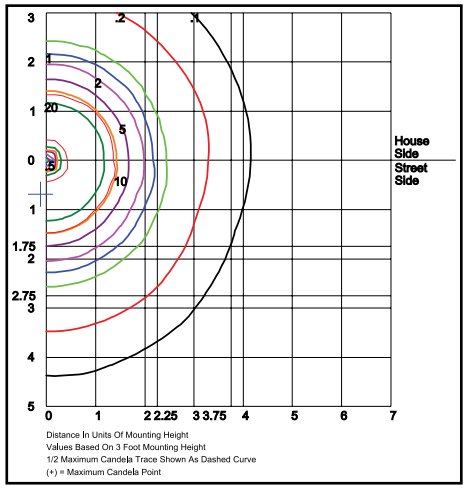
Photometric Data



BSGC22U5K
Type III
Grid in feet, Mounting Height = 3 ft.



BSRF22U5K & BSRWF22U5K
Type V
Grid in feet, Mounting Height = 3 ft.



BSLF22U5K
Type V
Grid in feet, Mounting Height = 3 ft.

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Photometric Performance

Optic	Wattage (Catalog Logic)	10W (1X22)	15W (1X15)	20W (1X22)
	Input Watts	11.3W	15.9W	23.8W
	CCT	Delivered Lumens		
BSG 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
BSG 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
BSL 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
BSR & BSRW 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
BSR & BSRW 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

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.

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