

PBR1-F

LED Flat-Top Bollard



DESCRIPTION

The PBR1-F illuminating bollard is an economical versatile flat-top bollard ideal for retail centers, business parks, schools, transit centers, and medical facilities. Two optical distributions combined with a glass lens, white or silver cone reflector, or louvers achieve the desired coverage of areas while a choice of lumen packages and color temperatures ensure the right solution for a wide variety of applications. Options include GFCI outlet, fusing, surge protection, shielding, emergency battery backup, and microwave motion sensors. Lumen output is equivalent to 70W metal halide.



Date: _____ Type: _____ Catalog Number: _____

Project Name: _____

ORDERING INFORMATION



MODEL	HEIGHT	OUTPUT	CCT	VOLTAGE	OPTICS	LENS	FINISH	OPTIONS
PBR1-F	42 42" (standard)	LO 10w	30K 3000K	UNV 120-277v	T3 Type III	PGR Prismatic glass lens	BL Black	SF Single Fuse (120-277v only)
	36 36"	SO 15w	40K 4000K	347 ² 347-480v	T5 Type V	SCR Specular cone reflector	DB Dark Bronze	DF Double Fuse (120-277v only)
	30 30"	HO 22w	50K 5000K			WCR White Cone Reflector	CC Custom RAL Color	SP Surge Protection
						LVR* Louvers		GFCI GFCI Outlet, 15A, 120V
						DPC* Diffuse Polycarbonate w/ white cone reflector		HSS180BL 180° House Side Shield, black
								HSS180DB 180° House Side Shield, dark bronze
				² 15 watt model only		*Type V (T5) Distribution only		HSS180CC 180° House Side Shield, custom color
								MSDP Internal microwave sensor with dimming and remote programming for 8'-19' mounting heights, 120-277v only
								EM Battery Backup, 90 min. 120-277v only
								EMCS Cold start battery backup, -20°C, 90 min. 120-277v only

ORDERING INFORMATION CONT.

MOUNTING ACCESSORIES (Mounting Kit, Ordered Separately)	VENDOR PART #
PBR1-MK04AB Mounting kit, includes bracket and (3) 4" zinc-plated anchor bolts	BOLAN4
PBR1-MK08AB (STANDARD) Mounting kit, includes bracket and (3) 8" zinc-plated anchor bolts	BOLAN8
PBR1-MK012AB Mounting kit, includes bracket and (3) 12" zinc-plated anchor bolts	BOLAN12
PBR1-MK015AB Mounting kit, includes bracket and (3) 15" zinc-plated anchor bolts	BOLAN15
PBR1-RFBASE-BL Bollard retrofit base, black, adapts new bollards to most existing bolt patterns. Die-cast. Hardware included. ø 11.5" x 1.5"H	BREBASE-B
PBR1-RFBASE-DB Bollard retrofit base, dark bronze, adapts new bollards to most existing bolt patterns. Die-cast. Hardware included. ø 11.5" x 1.5"H	BREBASE-Z
PBR1-RFBASE-CC Bollard retrofit base, custom color, adapts new bollards to most existing bolt patterns. Die-cast. Hardware included. ø 11.5" x 1.5"H	BREBASE-C
MSPRGMR Remote programming tool for P17125 microwave sensor	P17126

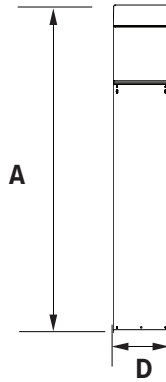
REPLACEMENT PARTS (Mounting Kit, Ordered Separately)	VENDOR PART #
PBR1-MSDP Internal microwave sensor with dimming and remote programming. 120-277v only	P17125
PBR1-PCLENS-CLEAR Round UV stabilized polycarbonate lens	BOLPC
PBR1-PCLENS-OPAL Diffused opal polycarbonate lens	BOLPCLL
PBR1-BBASE-BL Die-cast aluminum base plate, black finish	BORBASE-B
PBR1-BBASE-DB Die-cast aluminum base plate, dark bronze finish	BORBASE-Z
PBR1-BBASE-CC Die-cast aluminum base plate, custom color finish	BORBASE-C
PBR1-ADP1 Adapter plate with gaskets for outlet boxes. Diecast. Dark bronze finish	BOADP1

PRODUCT SPECIFICATIONS

LUMEN OUTPUT	Up to 2,461 @ 5000K (see photometric data chart for details)						
LUMEN MAINTENANCE	(L70): >147,000 @ 25°C						
COLOR TEMPERATURES	3000K, 4000K, 5000K						
CRI	80CRI						
OPTICS	Clear Prismatic Borosilicate Glass Refractor, Specially Designed Cone Reflector or Internal Louvers						
OPERATING TEMPERATURE	-40°C to +40°C (-40F to +104F)						
POWER CONSUMPTION	<table border="0"> <tr> <td>Array: 10w</td> <td>Array: 14.5w</td> <td>Array: 22w</td> </tr> <tr> <td>System: 11.3w</td> <td>System: 17w</td> <td>System: 23.8w</td> </tr> </table>	Array: 10w	Array: 14.5w	Array: 22w	System: 11.3w	System: 17w	System: 23.8w
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System: 11.3w	System: 17w	System: 23.8w					
DRIVERS	Electronic Driver, 120-277V, 50/60Hz or 347V, 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.						
CERTIFICATIONS	 						
INGRESS PROTECTION	IP65 Sealed LED Compartment, Listed for Wet Locations						
HOUSING	Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screw, Flat Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.						
FINISH	Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.						
MOUNTING OPTIONS	Mounting Kit with with 8" Anchor Bolts, Included.						
WARRANTY	5-Year Warranty for -40°C to +40°C Environment						

DIMENSIONS

FLAT BOLLARD	
DIAMETER (D)	7" (178mm)
HEIGHT (A)	41½" (1,057mm)



ACCESSORIES

MK04AB
Mounting Kit, Includes Bracket & Three (3) 4" Anchor Bolts

MK12AB
Mounting Kit, Includes Bracket & Three (3) 12" Anchor Bolts

MK15AB
Mounting Kit, Includes Bracket & Three (3) 15" Anchor Bolts

RFBASE
Nollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Die Cast with Powdercoat Finish, Hardware Included. 1½" Dia. x 1½" H

MSPRGMR
Remote Programming Tool for Internal Microwave Sensor



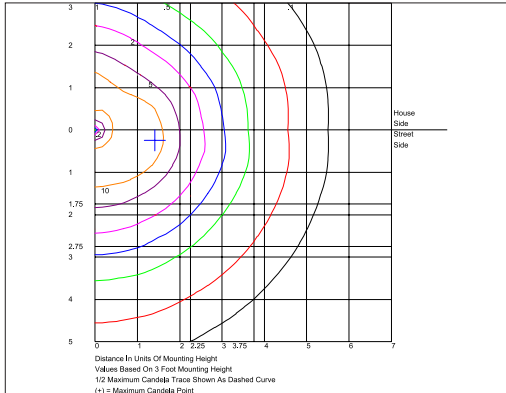
BOLLARD OPTIONS



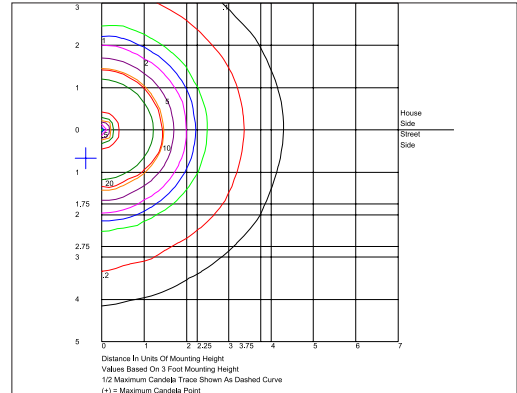
PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Currently (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
10	500	11.3	GLS-T3	889	78.7	1	3	1	853	75.5	1	3	1	787	69.6	1	3	1
15	700	15.9		1,245	78.3	1	3	1	1,195	75.2	1	3	1	1,101	69.2	1	3	1
20	1050	23.8		1,867	78.4	1	3	1	1,792	75.3	1	3	1	1,652	69.4	1	3	1
10	500	11.3	GLS-T5	868	76.8	1	3	1	833	73.7	1	3		768	68.0	1	3	1
15	700	15.9		1,215	76.4	1	3	1	1,167	73.4	1	3		1,076	67.7	1	3	1
20	1050	23.8		1,823	76.6	1	3	1	1,750	73.5	1	3		1,613	67.8	1	3	1
10	500	11.3	LVR-T5 Only	600	53.1	0	2	0	576	51.0	0	2	0	531	47.0	0	2	0
15	700	15.9		841	52.9	1	2	1	807	50.8	1	2	1	744	46.8	1	2	1
20	1050	23.8		1,261	53.0	1	3	1	1,211	50.9	1	3	1	1,116	46.9	1	3	1
10	500	11.3	SCR/WCR-T3	834	73.8	0	2	1	800	70.8	0	2	1	738	65.3	0	2	1
15	700	15.9		1,167	73.4	1	3	1	1,120	70.4	1	3	1	1,033	65.0	1	3	1
20	1050	23.8		1,750	73.5	1	3	1	1,680	70.6	1	3	1	1,549	65.1	1	3	1
10	500	11.3	SCR/WCR-T5	1,172	103.7	1	3	1	1,125	99.6	1	3	1	1,037	91.8	1	3	1
15	700	15.9		1,641	103.2	1	3	1	1,575	99.1	1	3	1	1,452	91.3	1	3	1
20	1050	23.8		2,461	103.4	1	3	1	2,362	99.2	1	3	1	2,178	91.5	1	3	1

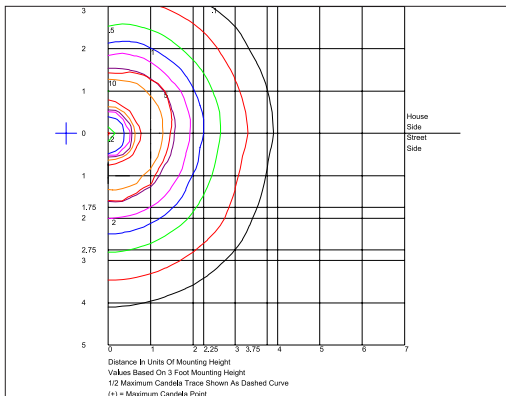
PHOTOMETRIC DATA



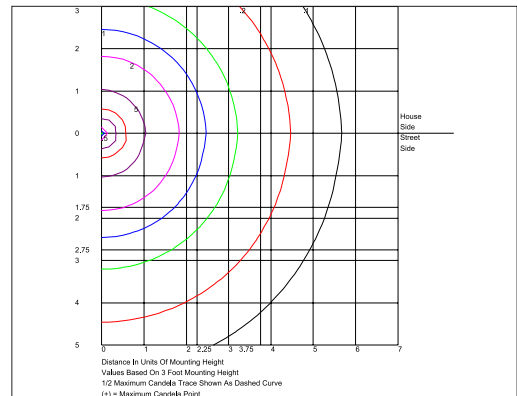
PBR1-22W-50KOUNV-T5-GLS
Grid in feet, Mounting Height=3Feet



PBR1-22W-50KOUNV-T5-SCR/WCR
Grid in feet, Mounting Height=3Feet



PBR1-22W-50KOUNV-T5-LVR
Grid in feet, Mounting Height=3Feet



PBR1-22W-50KOUNV-T5-DPC
Grid in feet, Mounting Height=3Feet

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	1.00	0.95	0.90	0.80	147,000
L70 Lumen Maintenance @ 50°C / 122°F			0.89	0.78	0.55	67,000
L80 Lumen Maintenance @ 40°C / 104°F			0.92	0.85	0.70	66,000

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA 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.

CONTROLS

Fixtures Ordered with Factory-Installed Photocell or 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.