

# **RADEAN Bollard**

# LED Site Luminaire





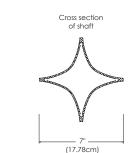




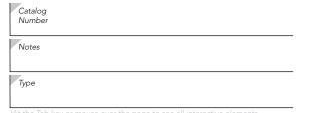












# Introduction

The Radean LED Bollard is an award-winning, energy-saving, long-life solution designed to perform the way a bollard should.

The Radean LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.









# **Ordering Information**

D = 8.25" (20.96cm)

(105.41cm)

20lbs (9.07Kg)

Diameter:

Height:

Weight

(max):

### **EXAMPLE: RADB LED P4 30K SYM MVOLT BTS BCCDNATXD DBLXD**

RADB LED													
Series	Performance Package	Color temperature	Distribution	Voltage	Control options	Bollard top (required)							
RADB LED	P1 P2 P3 P4 P5 <sup>1</sup>	27K 2700 K 30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	ASY Asymmetric <sup>2</sup> SYM Symmetric <sup>1</sup>	MVOLT <sup>3</sup> 120 208 <sup>3</sup> 240 <sup>3</sup> 277 347 480	Shipped installed PE Photoelectric cell, button type 45  DMG 0-10V dimming driver (no controls)  E7WH Emergency battery backup,Certified in CA Title 20 MAEDBS1 67.8  FAO Field adjustable output 5  PIR Motion sensor Bi-level 35.6.7	Slim Top BTS Slim top, painted to match shaft \$\frac{5}{9}\$  BTSDWHXD Slim top, white \$\frac{5}{9}\$  BTSDBLBXD Slim top, black texture \$\frac{5}{9}\$  BTSDBLXD Slim top, black \$\frac{5}{9}\$  BTSDDBXD Slim top, dark bronze textured \$\frac{5}{9}\$  BTSDDBXD Slim top, dark bronze textured \$\frac{5}{9}\$  BTSDDBXD Slim top, dark bronze textured \$\frac{5}{9}\$  BTSDDBXD Slim top, dark bronze \$\frac{5}{9}\$  BTSDDBXD Slim top, natural aluminum textured \$\frac{5}{9}\$  BTSDNATXD Slim top, natural aluminum textured \$\frac{5}{9}\$  BTSDNAXD Slim top, natural aluminum textured \$\frac{5}{9}\$  BTSDNAXD Slim top, white textured \$\frac{9}{9}\$  BTTDNAXD Tall top, natural aluminum textured \$\frac{9}{9}\$  BTTDNAXD Tall top, natural aluminum Tall top, natural aluminum Tall top, natural aluminum Tall top, natural aluminum Tall top, white textured \$\frac{9}{9}\$  BTTDWHXD Tall top, white textured \$\frac{9}{9}\$  BTTDWHXD Tall top, white \$\frac{9}{9}\$							

Bollard crown	(required)			Other op	otions	Finish (requ	ired)
Deep Crown		Flat Crown			24" overall height	DDBXD	Dark bronze
BCC	Deep crown, painted to match shaft 9	BCF	Flat crown, painted to match shaft <sup>9</sup>	H30 <sup>6,10</sup>	30" overall height	DBLXD	Black
BCCDWHXD	Deep crown, white 9	BCFDBLBXD	Flat crown, black textured 9	H36 <sup>6,10</sup>	36" overall height	DNAXD	Natural aluminum
BCCDBLXD	Deep crown, black <sup>9</sup>	BCFDBLXD	Flat crown, black 9	L/AB	Without anchor bolts	DWHXD	White
BCCDBLBXD	Deep crown, black textured 9	BCFDDBTXD	Flat crown, dark bronze textured 9			DDBTXD	Textured dark bronze
BCCDDBTXD	Deep crown, dark bronze textured 9	BCFDDBXD	Flat crown, dark bronze 9			DBLBXD	Textured black
BCCDDBXD	Deep crown, dark bronze 9	BCFDNATXD	Flat crown, natural aluminum textured 9			DNATXD	Textured natural aluminum
BCCDNATXD	Deep crown, natural aluminum textured 9	BCFDNAXD	Flat crown, natural aluminum 9			DWHGXD	Textured white
BCCDNAXD	Deep crown, natural aluminum <sup>9</sup>	BCFDWHGXD	Flat crown, white textured 9				
BCCDWHGXD	Deep crown, white textured 9	BCFDWHXD	Flat crown, white 9				

beep midne bee	p crown, write textured	DCI DVIII/ID	at crown, write
	Access	ories	
	Ordered and ship	ped separately.	
RADBAB U	Anchor bolts (4)	RK1RADB BCKIT (FINISH) U	Base cover with bolt caps
RADBABC DDBXD U	Replacement anchor bolt covers (specify finish) (4)	RK1RADB EMTESTMAG U	Emergency test stylus

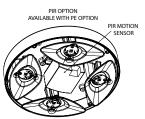
COMMERCIAL OUTDOOR

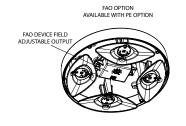
#### NOTES

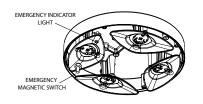
- P5 only available in SYM distribution.
- ASY has only two illuminated quadrants driven at higher drive currents to generate similar output as the SYM-4-quadrant product.
- PIR not available with 208V or 240V.
- PE only available with ASY.
- PE, PIR and FAO not available with BTS.
- E7WH and PIR only available in full height. Not available with H24, H30 or H36.
- PIR not available with E7WH.
- E7WH is not available with 347V or 480V.
- Architectural and custom colors available (additional leadtimes and cost may apply).
- 42" Height is standard. H24, H30 and H36 have longer leadtimes.

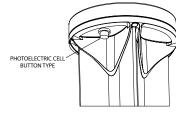


PIR <u>FAO</u> E7WH <u>PE</u>









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Only available with BTT tops

Only available with BTT tops

Only available with ASY

Only available with ASY

# **Performance Data**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Performan DNAXD FI	ce Data nish*			27	OOK				30	OOK				35	OOK				40	OOK				50	OOK		
Light Engines	Performance Package	System Watts	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
	P1	5	345	0	1	0	66	362	0	1	0	69	370	0	1	0	71	380	0	1	0	73	382	0	1	0	73
	P2	8	644	0	1	0	81	677	0	1	0	85	692	0	1	0	87	711	0	1	0	89	713	0	1	0	89
"Symmetric (4 light engines)"	P3	13	1036	1	1	0	77	1088	1	1	0	81	1112	1	1	0	83	1142	1	1	0	85	1146	1	1	0	85
(Tright engines)	P4	19	1460	1	1	0	79	1534	1	1	0	83	1568	1	1	0	84	1610	1	1	0	87	1616	1	1	0	87
	P5	32	2314	1	1	0	72	2430	1	1	0	75	2484	1	1	0	77	2551	1	1	0	79	2561	1	1	0	79
	P1	5	312	0	1	0	60	328	0	1	0	63	335	0	1	0	64	344	0	1	0	66	346	0	1	0	66
"Asymmetric	P2	8	584	0	1	0	73	613	0	1	0	77	627	0	1	0	78	644	0	1	0	81	646	0	1	0	81
(2 light engines)"	P3	13	938	0	1	0	70	985	0	1	0	73	1007	0	1	0	75	1035	0	1	0	77	1038	0	1	0	77

<sup>1</sup> \*Note: Lumen output varies based on finish. Silver color shown, for black (worst) or white (best) photometry, see specific photometric files downloadable from www.acuitybrands.com

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# **Projected LED Lumen Maintenance**

P4

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

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1323

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Projected LED Lumen Maintenance										
	25,000	50,000	75,000	100,000						
P1	0.94	0.89	0.85	0.80						
P2	0.94	0.89	0.85	0.80						
P3	0.94	0.89	0.85	0.80						
P4	0.94	0.89	0.85	0.80						
P5	0.94	0.89	0.85	0.80						

# **Lumen Ambient Temperature (LAT) Multipliers**

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Use these factors to determine relative lumen output for average temperatures from 0-40°C (32-104°F).

Amb	ient	LAT Factor
0	32°F	1.03
5	41°F	1.03
10	50°F	1.02
15	59°F	1.01
20	68°F	1.01
25	77°F	1
30	86°F	0.99
35	95°F	0.99
40	104°F	0.98

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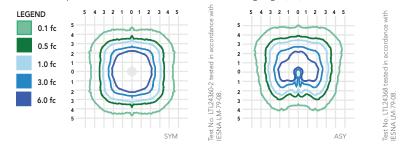
Electrical Load				Curren	t (Amp)				Current (Amp)		
	Watts @120V (W)	Watts @277V (W)	@120V (A)	@208V (A)	@240V (A)	(@277V) (A)	Watts (@347V)	Watts (@480V)	(@347V) (A)	(@480V)	
P1 ASY	5	6	0.0445	0.0299	0.0276	0.0262	10	10	0.0443	0.0319	
P2 ASY	9	10	0.0751	0.0471	0.0429	0.0399	14	14	0.0505	0.0364	
P3 ASY	14	15	0.1147	0.0699	0.0627	0.0571	18	18	0.0611	0.0441	
P4 ASY	19	19	0.1586	0.0928	0.0819	0.0735	23	23	0.0709	0.0513	
P1 SYM	5	6	0.0444	0.0301	0.0279	0.0265	9	9	0.0441	0.0319	
P2 SYM	9	10	0.0734	0.0461	0.0421	0.0391	13	13	0.0502	0.0363	
P3 SYM	13	14	0.112	0.067	0.0598	0.0544	18	18	0.0602	0.0435	
P4 SYM	18	19	0.1535	0.0902	0.0796	0.0713	22	22	0.0691	0.0499	
P5 SYM	31	31	0.2597	0.1527	0.1326	0.1149	35	36	0.1079	0.079	



## **Photometric Diagrams**

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RADEAN Bollard homepage.

Isofootcandle plots for the RADB. Distances are in units of mounting height (3.5').



## **FEATURES & SPECIFICATIONS**

#### INTENDED USE

The rugged construction and maintenance-free performance of the Radean LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

# CONSTRUCTION

One-piece extruded aluminum shaft with thick side walls for extreme durability, and die-cast reflector and top cap. Four 3/8" x 7" anchor bolts with double nuts and washers and 5-2/3" max. bolt circle template ensure stability. Overall height is 42" standard.

## **FINISH**

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

#### **OPTICS**

Two optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination. Light engines are available in 2700K, 3000K, 3500K, 4000K or 5000K.

#### **ELECTRICAL**

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L80/100,000 hours at P5 at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

#### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Emergency battery backup rated for -10°C minimum ambient. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less. U.S. Patent No. D912,850S

#### **GOVERNMENT PROCUREMENT**

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

#### WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: <a href="https://www.acuitybrands.com/support/warranty/terms-and-conditions">www.acuitybrands.com/support/warranty/terms-and-conditions</a>

**Note:** Actual performance may differ as a result of end-user environment and application and color.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

