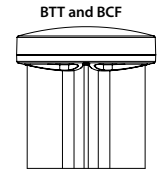
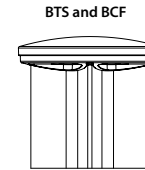
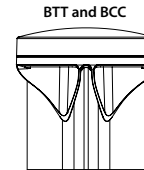
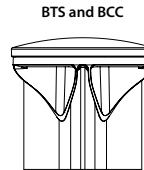
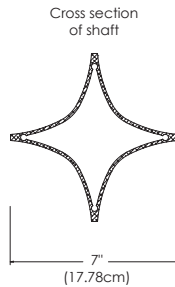
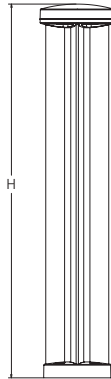
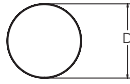




# RADEAN Bollard

## LED Site Luminaire



### Specifications

**Diameter:** D = 8.25" (20.96cm)  
**Height:** H = 41.5" Standard (105.41cm)  
**Weight (max):** 20lbs (9.07Kg)

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### 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

**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	27K 2700 K	ASY Asymmetric <sup>2</sup>	MVOLT <sup>3</sup>	<b>Shipped installed</b> PE Photoelectric cell, button type <sup>4,5</sup> DMG 0-10V dimming driver (no controls) E7WH Emergency battery backup, Certified in CA Title 20 MAEDBS1 <sup>6,7</sup> FAO Field adjustable output <sup>5</sup> PIR Motion sensor Bi-level <sup>3,5,6,7</sup>	<b>Slim Top</b>	<b>Tall Top</b>
	P2	30K 3000 K	SYM Symmetric <sup>1</sup>	120		BTS Slim top, painted to match shaft <sup>5,8</sup>	BTT Tall top painted to match shaft <sup>8</sup>
	P3	35K 3500 K		208 <sup>3</sup>		BTSDWHXD Slim top, white <sup>5,8</sup>	BTDBLXD Tall top, black textured <sup>8</sup>
	P4	40K 4000 K		240 <sup>3</sup>		BTSDBLXD Slim top, black texture <sup>5,8</sup>	BTDBLXD Tall top, black <sup>8</sup>
	P5 <sup>1</sup>	50K 5000 K		277		BTSDBTXD Slim top, dark bronze textured <sup>5,8</sup>	BTDDBTXD Tall top, dark bronze textured <sup>8</sup>
				347	FAO	BTSDDBXD Slim top, dark bronze <sup>5,8</sup>	BTDDDBXD Tall top, dark bronze <sup>8</sup>
				480	PIR	BTSDBLXD Slim top, natural aluminum textured <sup>5,8</sup>	BTDDNATXD Tall top, natural aluminum textured <sup>8</sup>
						BTSDBTXD Slim top, natural aluminum textured <sup>5,8</sup>	BTDDNAXD Tall top, natural aluminum textured <sup>8</sup>
						BTSDBTXD Slim top, natural aluminum textured <sup>5,8</sup>	BTDDWHGXD Tall top, white textured <sup>8</sup>
						BTSDBTXD Slim top, white textured <sup>8</sup>	BTDDWHXD Tall top, white <sup>8</sup>

Bollard crown (required)		Other options	Finish (required)
<b>Deep Crown</b>	<b>Flat Crown</b>	H24 <sup>6,9</sup> 24" overall height	DDBXD Dark bronze
BCC Deep crown, painted to match shaft <sup>8</sup>	BCF Flat crown, painted to match shaft <sup>8</sup>	H30 <sup>6,9</sup> 30" overall height	DBLXD Black
BCCDWHXD Deep crown, white <sup>8</sup>	BCFDBLXD Flat crown, black textured <sup>8</sup>	H36 <sup>6,9</sup> 36" overall height	DNAXD Natural aluminum
BCCDBLXD Deep crown, black <sup>8</sup>	BCFDBLXD Flat crown, black <sup>8</sup>	L/AB Without anchor bolts	DWHXD White
BCCDBLXD Deep crown, black textured <sup>8</sup>	BCFDDBTXD Flat crown, dark bronze textured <sup>8</sup>		DDBTXD Textured dark bronze
BCCDDBTXD Deep crown, dark bronze textured <sup>8</sup>	BCFDDBXD Flat crown, dark bronze <sup>8</sup>		DBLXD Textured black
BCCDDBXD Deep crown, dark bronze <sup>8</sup>	BCFDNATXD Flat crown, natural aluminum textured <sup>8</sup>		DNATXD Textured natural aluminum
BCCDNATXD Deep crown, natural aluminum textured <sup>8</sup>	BCFDNAXD Flat crown, natural aluminum <sup>8</sup>		DWHGXD Textured white
BCCDNAXD Deep crown, natural aluminum <sup>8</sup>	BCFDWHGXD Flat crown, white textured <sup>8</sup>		
BCCDWHGXD Deep crown, white textured <sup>8</sup>	BCFDWHXD Flat crown, white <sup>8</sup>		

### Accessories

Ordered and shipped 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

### 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.

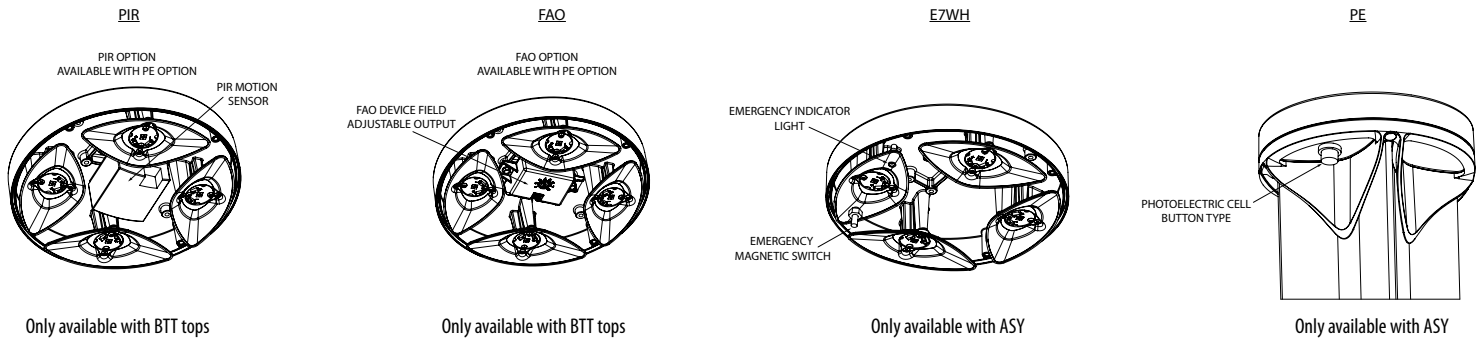
- E7WH and PIR only available in full height. Not available with H24, H30 or H36.
- PIR not available with E7WH.
- Architectural and custom colors available (additional leadtimes and cost may apply).
- 42" Height is standard. H24, H30 and H36 have longer leadtimes.



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## Options



## 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%.

### Performance Data DNAXD Finish\*

Light Engines	Performance Package	System Watts	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
"Symmetric (4 light engines)"	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
	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
	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
"Asymmetric (2 light engines)"	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
	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
	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
	P4	19	1323	0	1	0	71	1390	0	1	0	75	1420	0	1	0	76	1459	0	1	0	78	1464	0	1	0	79

\*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](http://www.acuitybrands.com)

### Projected LED Lumen Maintenance

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.

	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

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

Ambient	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

### Electrical Load

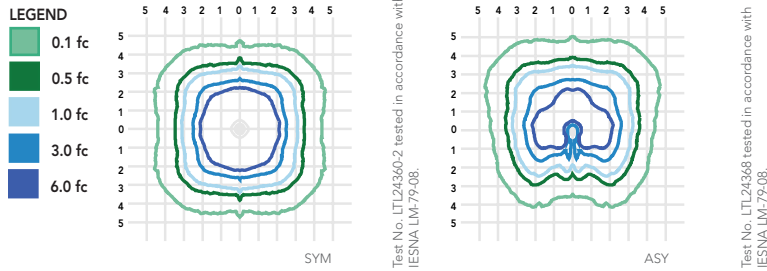
	Current (Amp)						Current (Amp)			
	Watts @120V (W)	Watts @277V (W)	@120V (A)	@208V (A)	@240V (A)	@277V (A)	Watts (@347V)	Watts (@480V)	@347V (A)	@480V (A)
P1 ASY	5	6	0.0445	0.0299	0.0276	0.0262	10	10	0.0443	0.0319
P2 ASY	9	10	0.0751	0.0471	0.0429	0.0399	14	14	0.0505	0.0364
P3 ASY	14	15	0.1147	0.0699	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



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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 16" 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.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**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.