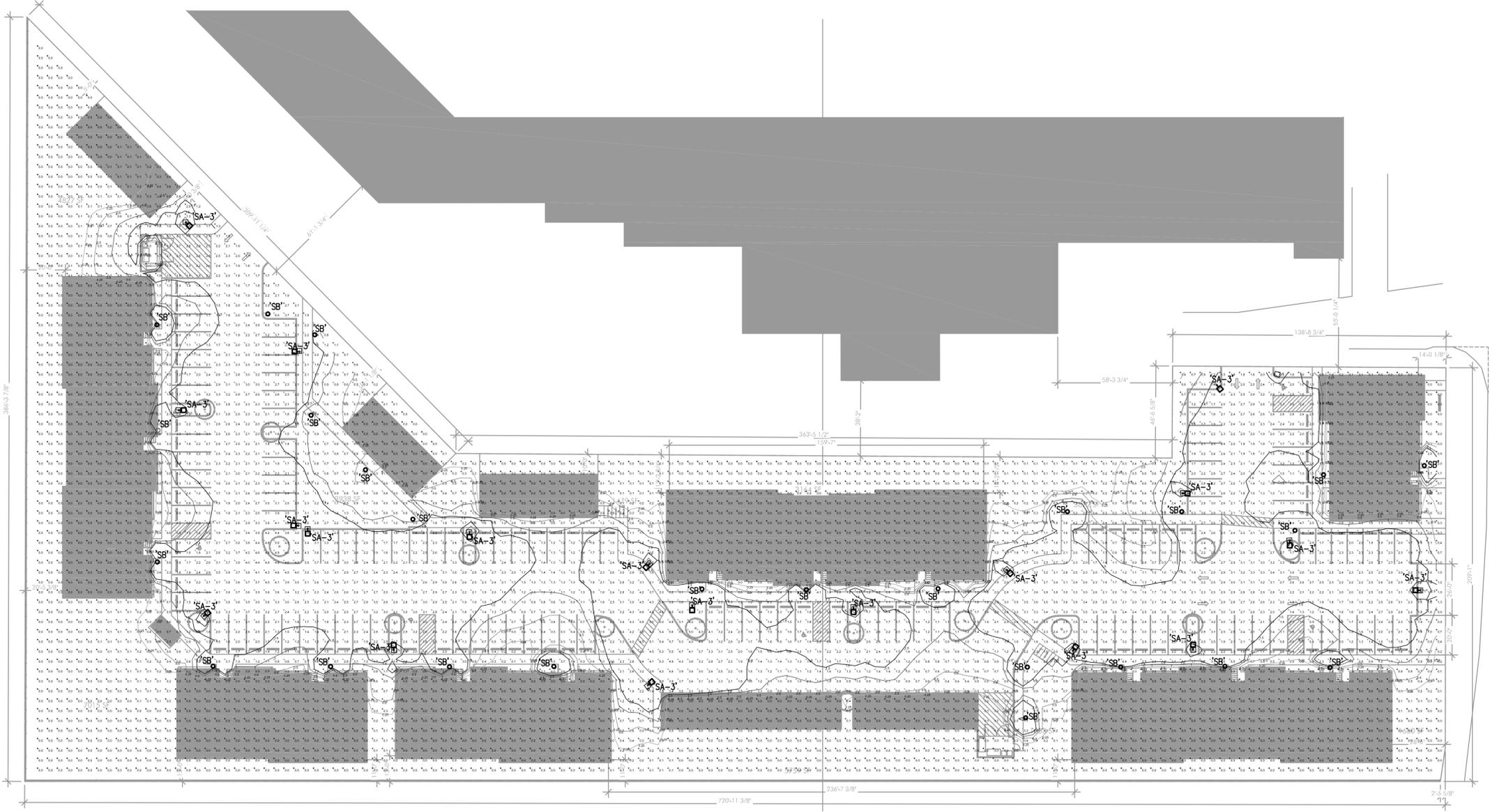


LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'SA-3'	L.E.D. 9100 Lumens  (150W)	LITHONIA	MRP-LED SERIES	TYPE :AREA LUMINAIRE MOUNTING :20FT POLE HOUSING :CAST ALUMINUM LENS/REFL :Type III VOLTAGE :120V BALLAST :	
'SB'	L.E.D. 640 Lumens  (16W)	LITHONIA	KBB08-LED SERIES	TYPE :BOLLARD, 42" TALL MOUNTING :ANCHOR BOLT HOUSING :EXTRUDED ALUMINUM LENS/REFL :ASYMMETRIC VOLTAGE :120V BALLAST :	





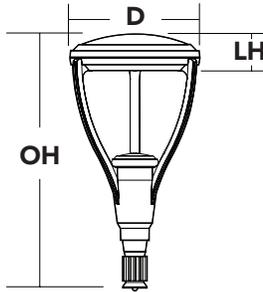
# MRP LED

## LED Area Luminaire



### Specifications

<b>EPA:</b>	1.125 ft <sup>2</sup> (0.105 m <sup>2</sup> )
<b>Luminaire Height:</b>	6-3/8" (16.2 cm)
<b>Overall Height:</b>	32" (81.3 cm)
<b>Diameter:</b>	18" (45.7 cm)
<b>Weight (max):</b>	37.5 lbs (17 kg)



Catalog Number

Notes

Type

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

### Introduction

The Omero™ family of luminaires blends a traditional round dayform with contemporary, low-profile styling to accent architectural elements in a variety of applications.

The MRP LED combines the latest in LED technology with the designer aesthetic of the Omero™ family for stylish, high-performance illumination that lasts. The MRP LED is ideal for replacing 100-250W metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

### Ordering Information

**EXAMPLE: MRP LED 42C 700 40K SR5 MVOLT DDBXD**

MRP LED	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
MRP LED	42C 42 LEDs (one engine)	530 530mA 700 700mA 1000 1000mA (1A)	30K 3000K 40K 4000K 50K 5000K	SR2 Type II SR3 Type III SR4 Type IV SR5 Type V	MVOLT <sup>1</sup> 277 <sup>1</sup> 120 <sup>1</sup> 347 208 <sup>1</sup> 480 240 <sup>1</sup>	<b>Shipped included</b> (blank) Fits 4"OD round pole <b>Shipped separately<sup>2</sup></b> MRPT20 2-3/8" tenon slipfitter MRPT25 2-7/8" tenon slipfitter MRPT30 3-1/2" tenon slipfitter MRPT35 4" tenon slipfitter MRPF3 3"OD round pole adapter MRPF5 5"OD round pole adapter <sup>3</sup>
Control options				Other options		Finish (required)
<b>Shipped installed</b> PER NEMA twist-lock receptacle only (no controls) <b>PNMTDD3</b> Part night, dim till dawn <sup>7</sup> PER5 Five-wire receptacle only (no controls) <sup>4</sup> <b>PNMT5D3</b> Part night, dim 5 hrs <sup>7</sup> PER7 Seven-wire receptacle only (no controls) <sup>4</sup> <b>PNMT6D3</b> Part night, dim 6 hrs <sup>7</sup> DMG 0-10V dimming driver (no controls) <sup>5</sup> <b>PNMT7D3</b> Part night, dim 7 hrs <sup>7</sup> BL30 Bi-level switched dimming, 30% <sup>6,7</sup> BL50 Bi-level switched dimming, 50% <sup>6,7</sup>				SF Single fuse (120, 277, 347V) <sup>1</sup> DF Double fuse (208, 240, 480V) <sup>1</sup> DFL Diffusing lens		<b>DDBXD</b> Dark bronze <b>DDBTXD</b> Textured dark bronze <b>DBLXD</b> Black <b>DBLBXD</b> Textured black <b>DNAXD</b> Natural aluminum <b>DNATXD</b> Textured natural aluminum <b>DWHXD</b> White <b>DWHGXD</b> Textured white

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>8</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>8</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>8</sup>
SCU	Shorting cap <sup>8</sup>
MRPT20 DDBXD U	2-3/8" tenon slipfitter (specify finish)
MRPT25 DDBXD U	2-7/8" tenon slipfitter (specify finish)
MRPT30 DDBXD U	3-1/2" tenon slipfitter (specify finish)
MRPT35 DDBXD U	4" tenon slipfitter (specify finish)
MRPF3 DDBXD U	3"OD round pole adapter (specify finish)
MRPF5 DDBXD U	5"OD round pole adapter (specify finish) <sup>3</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- Also available as a separate accessory; see Accessories information at left.
- Maximum pole wall thickness is 0.156".
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
- Not available with 347 or 480V.
- Requires an additional switched line.
- Dimming driver standard. Not available with 347V, 480V, SF, DF, PER5 or PER7.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.



## Performance Data

### Lumen Output

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. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	40 K (4000 K, 70 CRI)				
				Lumens	B	U	G	LPW
42C (42 LEDs)	530	75W	SR2	6,605	1	2	1	88
			SR3	6,581	1	1	2	88
			SR4	6,537	1	1	2	87
			SR5	6,959	3	1	3	93
	700	100W	SR2	8,026	2	2	2	80
			SR3	7,997	1	2	2	80
			SR4	7,943	1	2	2	79
			SR5	8,456	3	2	3	85
	1000	151W	SR2	9,885	2	2	2	65
			SR3	9,848	2	2	2	65
			SR4	9,782	2	2	2	65
			SR5	10,414	4	2	4	69

### Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.06
10°C	50°F	1.04
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
40°C	104°F	0.96

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MRP LED 42C 700** platform 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).

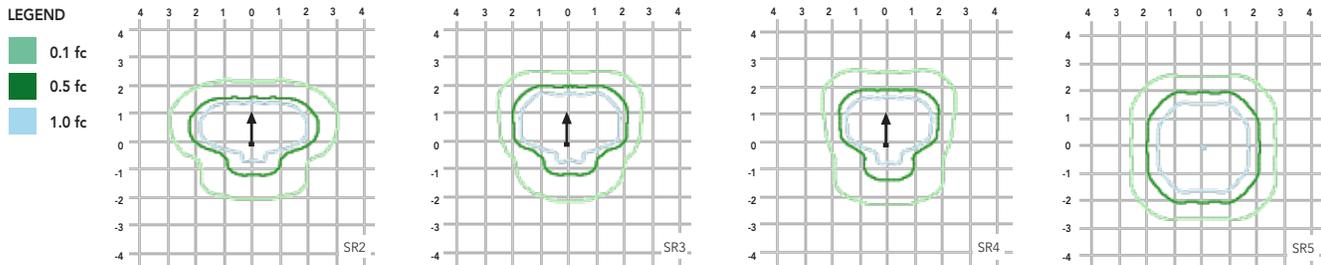
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.96	0.92	0.85

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [MRP LED homepage](#).

Isofootcandle plots are considered to be representative of available optical distributions.



## FEATURES & SPECIFICATIONS

### INTENDED USE

Streets, walkways, parking lots and surrounding areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing with nominal wall thickness of .012". Die-cast top access doorframe has impact-resistant, tempered glass lens (3/16" thick). Doorframe is fully gasketed with one-piece tubular silicone.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

### OPTICS

Precision acrylic refractive optics for optimum light distribution through the flat glass lens. Light engines are available in standard 4000K or optional 3000K or 5000K (70 CRI) configurations.

### ELECTRICAL

Light engine consists of 42 high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Standard post-top mounting configuration fits into a 4" OD open pole top (round pole only). Multiple options and accessories are available for other mounting needs.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. **U.S. Patent No. D556,357.**

### WARRANTY

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





# KBD8 LED

## LED Specification Bollard

### Specifications

8" Round  
(20.3 cm)

**Height:** 42"  
(106.7 cm)

**Weight (max):** 27lbs  
(12.25 kg)



Catalog  
Number

Notes

Type

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

### Introduction

The KBD8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBD8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

### Ordering Information

**EXAMPLE:** KBD8 LED 16C 700 40K SYM MVOLT DDBXD

KBD8 LED												
Series	LEDs	Drive current		Color temperature		Distribution		Voltage	Control options	Other options	Finish <i>(required)</i>	
KBD8 LED	<b>Asymmetric</b> 12C 12 LEDs <sup>1</sup>	350	350 mA	30K	3000 K	ASY	Asymmetric <sup>1</sup>	MVOLT <sup>5</sup>	<b>Shipped installed</b>  PE Photoelectric cell, button type  DMG 0-10V dimming driver (no controls)  ELCW Emergency battery backup <sup>6</sup>	<b>Shipped installed</b>  SF Single fuse (120, 277, 347V) <sup>4,7</sup>  DF Double fuse (208, 240V) <sup>4,7</sup>  H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts (3 bolt base) L/AB4 4 bolt retrofit base without anchor bolts <sup>8</sup>	DWHXD	White
		450	450 mA <sup>3,4</sup>	40K	4000 K	SYM	Symmetric <sup>2</sup>	120 <sup>5</sup>			DNAXD	Natural aluminum
		530	530 mA	50K	5000 K			208 <sup>5</sup>			DDBXD	Dark bronze
	700	700 mA	AMBPC	Amber phosphor converted			240 <sup>5</sup>	DBLXD			Black	
	<b>Symmetric</b> 16C 16 LEDs <sup>2</sup>			AMBLW	Amber limited wavelength <sup>3,4</sup>			277 <sup>5</sup>			DDBTXD	Textured dark bronze
								347 <sup>4</sup>			DBLXD	Textured black
											DNATXD	Textured natural aluminum
											DWHGXD	Textured white

### Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBD8 LED<sup>8</sup>

### NOTES

- Only available in the 12C, ASY version.
- Only available in the 16C, SYM version.
- Only available with 450 AMBLW version.
- Not available with ELCW.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- MRAB U not available with L/AB4 option.



## 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%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber					
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	
Asymmetric 3 Engines (12 LEDs)	350	16	641	40	1	1	1	809	51	1	1	1	870	54	1	1	1						
	530	22	947	43	1	1	1	1,191	54	1	1	1	1,282	58	1	1	1						
	700	31	1,214	40	1	1	1	1,527	51	1	1	1	1,646	55	1	1	1						
	Amber 450	16																324	20	0	1	0	
Symmetric 4 Engines (16 LEDs)	350	20	888	44	1	0	0	1,116	56	1	0	0	1,203	60	1	0	0						
	530	28	1,254	45	1	0	0	1,598	57	1	0	1	1,719	61	1	0	1						
	700	39	1,608	41	1	0	1	2,022	52	1	0	1	2,180	56	2	0	1						
	Amber 450	20																374	19	0	0	0	

**Note:** Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

## 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.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

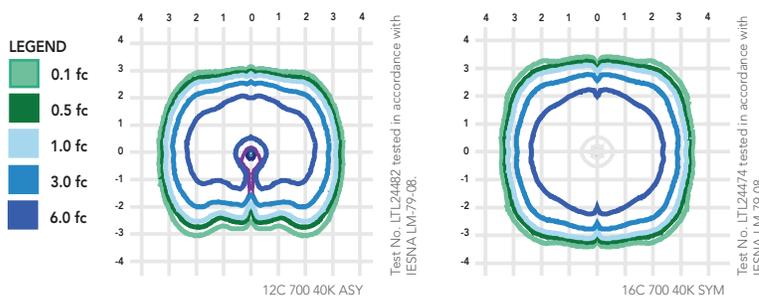
## Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KBD8 Bollard homepage](#).

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The rugged construction and clean lines of the KBA 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 with fully cutoff illumination.

### CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3 3/4" bolt circle template ensure stability. Overall height is 42" standard.

### FINISH

Exterior parts are protected by a zinc-infused super durable TGIC theroset 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 fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

### ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA 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. Cold-weather emergency battery backup rated for -20°C minimum ambient.

### 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:** Specifications subject to change without notice.

