

BOLLARDS

ROUND & SQUARE - BOL



Project:	
Type:	
Catalog #:	

STANDARD



FEATURES

- Available in 4000k (neutral white) and 5000 (cool white) color temperatures.*
- Long-life LEDs provide at least 70% of initial lumen output (L_{70}) for $\geq 180,000$ hours of operation, and at least 90% of initial lumen output (L_{90}) for $\geq 54,000$ hours of operation.**
- LED chromaticity based on ≤ 5 -step ANSI quadrangles.
- LED color maintenance ≤ 0.001 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- 2,700 nominal lumens.
- 21 nominal watts.
- 0-10vdc dimming drivers, which provide 10% continuous dimming are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90 .
- Total harmonic distortion $< 20\%$.
- Color rendering index (R_a) > 80 . Red color rendering of at least 15.
- Cast aluminum housing with dark bronze, powder coat finish.
- High-impact, polycarbonate lens.
- Easy installation in new construction or retrofit applications.

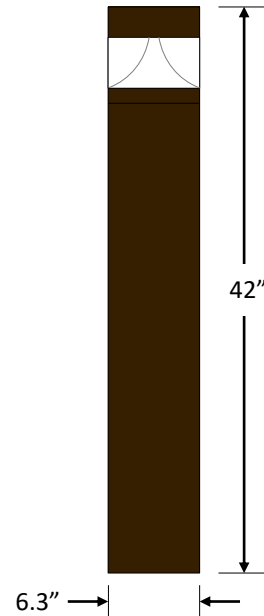
WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -40°C to 50°C (-40°F to 122°F).
- IP65 rated for ingress protection.
- DLC 5.1 premium approved.
- Complies with FCC Part 15, class A.
- Complies with ICE61000-4-5, input transient surge protection (line-neutral = 4kV; line- & neutral-ground = 6kV).
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- 5-year warranty of all electronics and housing.

* Contact factory for other color temperatures and lumen packages.
 ** L_{70} & L_{90} hours are IES TM-21-11 calculated hours.



DIMENSIONS



BOL-R = 8.4 lbs.
 BOL-S = 12.7 lbs

NOTE: Dimensions for BOL-S and BOL-R are the same. BOL-S is shown.

ORDERING INFORMATION

Example: BOL-R-27L-5K	Series		Style		Lumen Output		Color Temperature		Required Mounting Means Order Separately	
	BOL	R	Round	27L	2,700 lm	4K	4000k	BOL-R-MTGKIT	Anchor bolt for round bollard	
		S	Square			5K	5000k	BOL-S-MTGKIT	Anchor bolt for square bollard	

ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD ²	L ₇₀ Hours ³
							120V	240V	277V			
BOL-R-27L-4K	4000k	> 80	2,772	22	129	120-277	0.18	0.09	0.08	> 90%	< 20%	180,000
BOL-R-27L-5K	5000k	> 80	2,785	21	130	120-277	0.18	0.09	0.08	> 90%	< 20%	180,000
BOL-S-27L-4K	4000k	> 80	2,739	22	126	120-277	0.18	0.09	0.08	> 90%	< 20%	180,000
BOL-S-27L-5K	5000k	> 80	2,756	21	130	120-277	0.18	0.09	0.08	> 90%	< 20%	180,000

¹ Color rendering index

² Total harmonic distortion

³ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

BOL-R-27L-5K

Luminaire Data

Description	BOLLARD (ROUND) 27L, 5K
Total Lumens	2,796
Input Wattage	21
Efficacy (lm/W)	131
Max. Cd.	827.74 (45H, 54V)
IES Classification	Type IV
Longitudinal Classification	Very Short

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-30°	157	5.6%
0-60°	1,584	56.7%
0-80°	2,485	88.9%
80-90°	202	7.2%
0-90°	2,687	96.1%
90-110°	77	2.7%
110-180°	0	0.0%
0-180°	2,796	100.0%

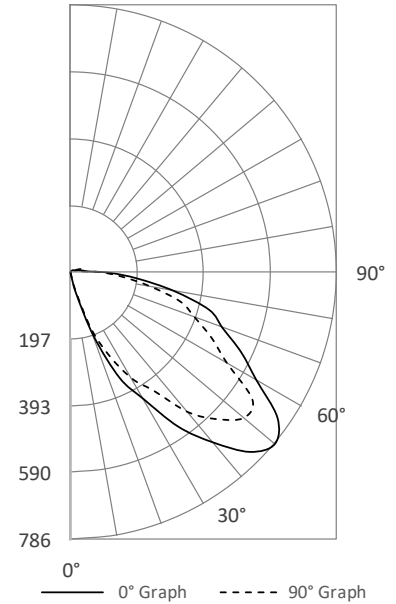
Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	85	3.1%
FM	30-60	749	26.8%
FH	60-80	463	16.6%
FVH	80-90	104	3.7%
BL	0-30	71	2.5%
BM	30-60	679	24.3%
BH	60-80	438	15.7%
BVH	80-90	98	3.5%
UL	90-100	49	1.7%
UH	100-180	61	2.2%
Total		2,796	100.0%

BUG Rating

B1-U3-G2

180° Polar Graph



PHOTOMETRIC DATA

BOL-S-27L-5K

Luminaire Data

Description	BOLLARD (SQUARE) 27L, 5K
Total Lumens	2,760
Input Wattage	21
Efficacy (lm/W)	130
Max. Cd.	757.38 (90H, 51V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-30°	153	5.5%
0-60°	1,525	55.2%
0-80°	2,465	89.3%
80-90°	167	6.1%
0-90°	2,632	95.4%
90-110°	90	3.3%
110-180°	0	0.0%
0-180°	2,760	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	84	3.0%
FM	30-60	695	25.2%
FH	60-80	463	16.8%
FVH	80-90	79	2.9%
BL	0-30	69	2.5%
BM	30-60	676	24.5%
BH	60-80	477	17.3%
BVH	80-90	88	3.2%
UL	90-100	63	2.3%
UH	100-180	65	2.4%
Total		2,760	100.0%
BUG Rating		B1-U3-G1	

180° Polar Graph

