



Round and Square Bollards Lumen and Kelvin Field Selectable



Description

The LITELUME™ Round and Square Bollards -Lumen and Kelvin Field Selectable (LL-BOL) features an anti-corrosion die-cast aluminum housing and high-impact polycarbonate lens. Parabolic cone with even 360 degree distribution. Easy installation for new construction and retrofit applications.

Applications: Security, Pathway, Perimeter, Pedestrian and Walkway lighting.

Fixture Information

Housing:	Die-cast Aluminum Housing
Finish:	Protective powdercoat
Len:	High- Impact Polycarbonate Lens
Color:	Standard: Bronze, Black
Power Factor:	>.90
CRI:	>80
THD:	<20%
Operating Temperature:	-40°C to 55°C (-40°F to 131°F).
Voltage:	Standard: 120-277V
Dimming:	Standard: 0-10V
Sensor:	Standard: No sensor
Warranty:	10-Year Limited Warranty

Performance Data

Lumen Output:

905 to 3,296 lm

Lumens Per Watt (typical):

69 to 148 lm/W

CCT:

3000K/4000K /5000K Selectable

Lifespan:

Up to 163,000 hours (L70 at 70%)

Ratings & Certificates

cULus Listed for Wet Location

IP65

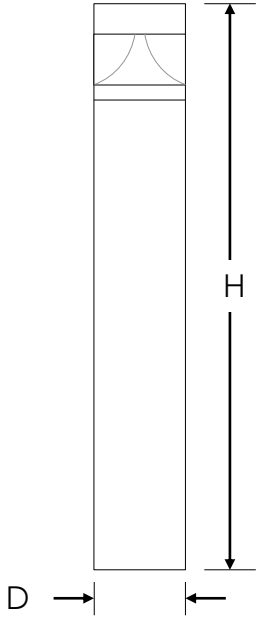
Complies with FCC Part 15, class A.





Dimensions

Item	Diameter	Height	Weight
LL-BOL-S	6"	42.00"	12 lb
LL-BOL-R	6"	42.00"	15 lb
LL-BOL-RD	6"	44.00"	12 lb
LL-BOL-RDL	6"	44.00"	13 lb



Electrical Data

LL-BOL-R-3L-LKFS									
Measurements	Low Lumens			Mid Lumens			High Lumens		
	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
Lumens	1827	1974	1942	2507	2686	2665	3090	3244	3296
Watts	13	14	13	18	19	18	23	22	23
Efficacy	139	144	148	138	145	146	134	145	144
Input Current (A)	120V = 0.11A	120V = 0.12A	120V = 0.11A	120V = 0.15A	120V = 0.16A	120V = 0.15A	120V = 0.19A	120V = 0.18A	120V = 0.19A
	240V = 0.05A	240V = 0.06A	240V = 0.05A	240V = 0.08A	240V = 0.08A	240V = 0.08A	240V = 0.10A	240V = 0.09A	240V = 0.10A
	277V = 0.05A	277V = 0.05A	277V = 0.05A	277V = 0.06A	277V = 0.07A	277V = 0.06A	277V = 0.08A	277V = 0.08A	277V = 0.08A

LL-BOL-S-3L-LKFS									
Measurements	Low Lumens			Mid Lumens			High Lumens		
	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
Lumens	1702	1790	1805	2303	2450	2459	2887	3047	3041
Watts	13	14	13	18	18	19	23	23	23
Efficacy	128	132	135	125	134	133	125	135	131
Input Current (A)	120V = 0.11A	120V = 0.12A	120V = 0.11A	120V = 0.15A	120V = 0.15A	120V = 0.16A	120V = 0.19A	120V = 0.19A	120V = 0.19A
	240V = 0.05A	240V = 0.06A	240V = 0.05A	240V = 0.08A	240V = 0.08A	240V = 0.08A	240V = 0.10A	240V = 0.10A	240V = 0.10A
	277V = 0.05A	277V = 0.05A	277V = 0.05A	277V = 0.06A	277V = 0.06A	277V = 0.07A	277V = 0.08A	277V = 0.08A	277V = 0.08A



LL-BOL-RD-3L-LKFS

Measurements	Low Lumens			Mid Lumens			High Lumens		
	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
Lumens	1819	1818	1895	2512	2530	2614	3130	3249	3251
Watts	13	12	13	18	17	18	23	22	23
Efficacy	140	148	146	138	147	144	136	146	143
Input Current (A)	120V = 0.11A	120V = 0.10A	120V = 0.11A	120V = 0.15A	120V = 0.14A	120V = 0.15A	120V = 0.19A	120V = 0.18A	120V = 0.19A
	240V = 0.05A	240V = 0.05A	240V = 0.05A	240V = 0.08A	240V = 0.07A	240V = 0.08A	240V = 0.10A	240V = 0.09A	240V = 0.10A
	277V = 0.05A	277V = 0.04A	277V = 0.05A	277V = 0.06A	277V = 0.06A	277V = 0.06A	277V = 0.08A	277V = 0.08A	277V = 0.08A

LL-BOL-RDL-2L-LKFS

Measurements	Low Lumens			Mid Lumens			High Lumens		
	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
Lumens	905	973	983	1263	1351	1359	1573	1692	1687
Watts	13	12	13	18	17	18	23	22	23
Efficacy	71	79	77	72	78	76	69	76	74
Input Current (A)	120V = 0.11A	120V = 0.10A	120V = 0.11A	120V = 0.15A	120V = 0.14A	120V = 0.15A	120V = 0.19A	120V = 0.18A	120V = 0.19A
	240V = 0.05A	240V = 0.05A	240V = 0.05A	240V = 0.08A	240V = 0.07A	240V = 0.08A	240V = 0.10A	240V = 0.09A	240V = 0.10A
	277V = 0.05A	277V = 0.04A	277V = 0.05A	277V = 0.06A	277V = 0.06A	277V = 0.06A	277V = 0.08A	277V = 0.08A	277V = 0.08A

Photometric Data

LL-BOL-R-3L-LKFS

Luminaire Data

Description	BOLLARD (ROUND) 3L 5K - LKFS
Total Lumens	3,296
Input Wattage	23
Efficacy (lm/W)	144
Max. Cd.	815.81 (67.5H, 53V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary

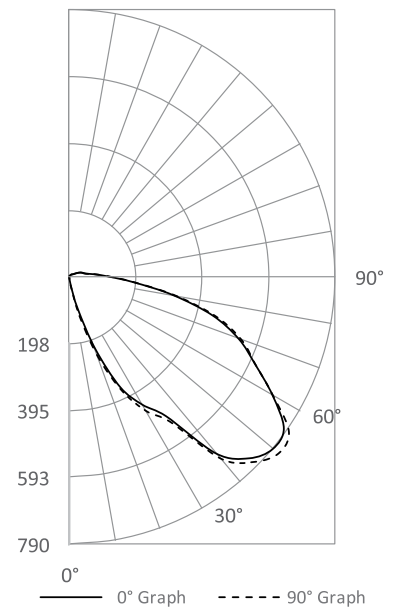
Zone	Lumens	%Fixt
0-30°	201	6.1%
0-60°	1,823	55.3%
0-80°	2,890	87.7%
80-90°	225	6.8%
0-90°	3,115	94.5%
90-110°	134	4.1%
110-180°	0	0.0%
0-180°	3,296	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	99	3.0%
FM	30-60	813	24.7%
FH	60-80	540	16.4%
FVH	80-90	116	3.5%
BL	0-30	101	3.1%
BM	30-60	809	24.5%
BH	60-80	527	16.0%
BVH	80-90	109	3.3%
UL	90-100	89	2.7%
UH	100-180	93	2.8%
Total		3,296	100.0%
BUG Rating		B2-U3-G2	

Photometrics calculated at 5000k - high lumens setting

180° Polar Graph





LL-BOL-S-3L-LKFS

Luminaire Data	
Description	BOLLARD (SQUARE) 3L 5K - LKFS
Total Lumens	3,041
Input Wattage	23
Efficacy (lm/W)	132
Max. Cd.	843.54 (270H, 53V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30°	114	3.8%
0-60°	1,611	53.0%
0-80°	2,646	87.0%
80-90°	230	7.6%
0-90°	2,876	94.6%
90-110°	126	4.1%
110-180°	0	0.0%
0-180°	3,041	100.0%

Luminaire Classification Systems (LCS)			
LCS Zone		Lumens	%Lum
FL	0-30	47	1.6%
FM	30-60	738	24.3%
FH	60-80	552	18.2%
FVH	80-90	132	4.3%
BL	0-30	67	2.2%
BM	30-60	760	25.0%
BH	60-80	482	15.9%
BVH	80-90	98	3.2%
UL	90-100	89	2.9%
UH	100-180	76	2.5%
Total		3,041	99.9%
BUG Rating		B1-U3-G2	

Photometrics calculated at 5000k - high lumens setting

Polar Graph

0° Graph (solid line) and 90° Graph (dashed line) showing light distribution. The 0° graph shows a peak at 0° and a secondary peak around 60°. The 90° graph shows a peak at 90°.

LL-BOL-RD-3L-LKFS

Luminaire Data	
Description	BOLLARD (ROUND DOME) 3L 5K - LKFS
Total Lumens	3,251
Input Wattage	23
Efficacy (lm/W)	143
Max. Cd.	765.57 (45H, 52V)
IES Classification	Type VS
Longitudinal Classification	Very Short

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-30°	200	6.2%
0-60°	1,724	53.0%
0-80°	2,790	85.8%
80-90°	240	7.4%
0-90°	3,030	93.2%
90-110°	161	5.0%
110-180°	0	0.0%

Luminaire Classification Systems (LCS)			
LCS Zone		Lumens	%Lum
FL	0-30	96	3.0%
FM	30-60	756	23.3%
FH	60-80	539	16.6%
FVH	80-90	124	3.8%
BL	0-30	104	3.2%
BM	30-60	768	23.6%
BH	60-80	528	16.2%
BVH	80-90	116	3.6%
UL	90-100	110	3.4%
UH	100-180	111	3.4%
Total		3,251	100.0%
BUG Rating		B2-U3-G2	

Photometrics calculated at 5000k - high lumens setting

Polar Graph

0° Graph (solid line) and 90° Graph (dashed line) showing light distribution. The 0° graph shows a peak at 0° and a secondary peak around 60°. The 90° graph shows a peak at 90°.



LL-BOL-RDL-2L-LKFS

Luminaire Data

Description	BOLLARD (RDL) 2L 5K - LKFS
Total Lumens	1,688
Input Wattage	23
Efficacy (lm/W)	74
Max. Cd.	292.72 (225H, 67V)
IES Classification	Type VS
Longitudinal Classification	Short

Zonal Lumen Summary

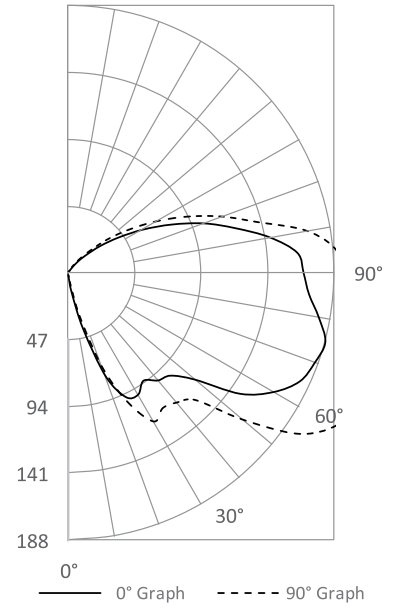
Zone	Lumens	%Fixt
0-30°	61	3.6%
0-60°	455	27.0%
0-80°	959	56.8%
80-90°	231	13.7%
0-90°	1,190	70.5%
90-110°	345	20.4%
110-180°	0	0.0%
0-180°	1,688	100.0%

Luminaire Classification Systems (LCS)

LCS Zone		Lumens	%Lum
FL	0-30	32	1.9%
FM	30-60	201	11.9%
FH	60-80	253	15.0%
FVH	80-90	115	6.8%
BL	0-30	29	1.7%
BM	30-60	192	11.4%
BH	60-80	250	14.8%
BVH	80-90	116	6.9%
UL	90-100	202	12.0%
UH	100-180	296	17.5%
Total		1,688	100.0%
BUG Rating		B1-U3-G2	

Photometrics calculated at 5000k - high lumens setting

Polar Graph





Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

Fixture Ordering Information

Series	Model		Nominal Lumen Output		Select	Housing Color	
LL-BOL	R	Round	3L	3,000 lm	LKFS	BK	Black
	S	Square					
	RD	Round Dome				BZ	Bronze
	RDL	Round Dome Louver	2L	2,000 lm			

Mounting Ordering Information

Part #	Description
LL-BOL-R-MTGKIT	Anchor bolt for round bollard
LL-BOL-S-MTGKIT	Anchor bolt for square bollard