

OVERVIEW

The BOL series are commonly used to illuminate pathways and landscapes for pedestrian use and safety. The optional factory-installed Sigtex Emergency Lighting Control option ensures full emergency code compliance at the lowest possible cost.

PROJECT:

TYPE:

CATALOG #:

SPECIAL FEATURES

- **Emergency lighting from 1,300 Lm to 1,800 Lm with adjustable Emergency Lighting Control (ELC), powered from a Sigtex low-voltage central battery system. See Page 3 for details.**
- Available with factory-installed UL Listed Emergency Lighting Control (ELC), for connection to a Sigtex central battery, DC emergency power system.
- 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 180,000 hours of operation, and at least 90% of initial lumen output (L 90) for 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) > 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.

* Contact factory for other color temperatures and lumen packages.



WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from 4040°C to 50 50°C (4040°F to 122 122°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.
- View Sigtex [Warranty](#) for further details



FIXTURE ORDERING INFORMATION EXAMPLE: BOL-R-27L-4K-ELC10P2

BOL

SERIES	STYLE	LUMEN OUTPUT ²	COLOR TEMPERATURE	OPTIONS ¹
BOL	R Round S Square	27L 2,700m	4K 4000K 5K 5000K	ELCPXX AR AS **XX*= VARIES WITH FIXTURE SIZE AND POWER. SEE OPTIONS TABLE FOR COMPLETE PART NUMBER.
				Emergency Lighting Control Anchor bolt for round bollard Anchor bolt for square bollard

¹ See Option Detail Tables

² Average values. Contact factory for specific value.

ELECTRICAL DATA

MODEL	COLOR TEMP.	CRI ¹	LUMINAIRE LUMENS	LUMINAIRE WATTS	LUMENS/ WATT	INPUT VOLTAGE ²	INPUT CURRENT (A)			POWER FACTOR	THD ³	L ₇₀ HOURS ⁴
							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-27K-5K	5000K	>80	2,756	21	130	120-277	0.18	0.09	0.08	> 90%	< 20%	180,000

¹ Color rendering index.

² All 50-60Hz.

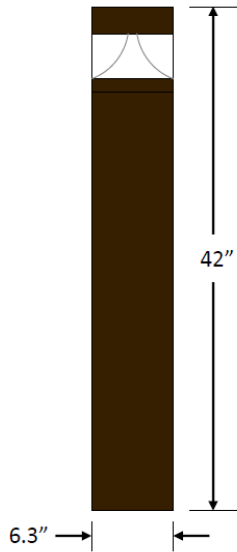
³ Total harmonic distortion.

⁴ 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

- [IES Files and Zonal Lumen Summaries and Polar Diagrams](#)

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.

OPTIONS

EMERGENCY LIGHTING CONTROLS (ELC)

For use with Central Battery Systems (purchased separately)

MODEL	OPTION CODE	
	ELC10P2	ELC14P2
	EM LUMENS ¹	EM LUMENS ²
BOL-R/S	1300	1800

¹ Minimum ² Maximum

Note: Lumen output is factory adjustable. Contact factory for specific values.

Learn more about ELC's on our website, www.signtexinc.com.

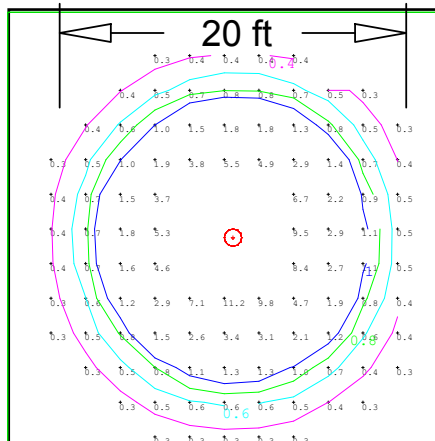
Emergency Lighting with ELC

The following Point-to-Point sample shows typical performance in the medium power range for both fixture and ELC, based on IES files and using a light loss factor (LLF) calculated as follows:

LIGHT LOSS FACTOR = ELC Emergency Power (Watts)*/ Fixture Normal Power (Watts)

LLF = $\frac{\text{ELC Emergency Power* (Watts)}}{\text{Fixture Normal Power (Watts)}}$ *Power value and ELC Type are given in the OPTION CODE above.
Example: ELC10P1 = 10 Watts Emergency Power for 90 mins: Package Type P1

The calculation is based on illumination values given in NFPA 101 and NEC 70, which stipulate an initial minimum average of 1 Fc at floor level, a minimum of 0.1 Fc at any point, and a uniformity ratio no higher than 40:1. NOTE, values are allowed to decrease 40% after 90 minutes, but ELC is a constant power device so emergency illumination does NOT decrease.



MODEL	ELC OPTION #	ELC POWER	EMERGENCY LUMENS	LLF	MOUNT HEIGHT	AVG. LUMENS ON PATHWAY	MAX/MIN UNIFORMITY
BOL-R-27L-5K	ELC10P2	10 Watts	1314	.047	-	1.64 Fc	37.33