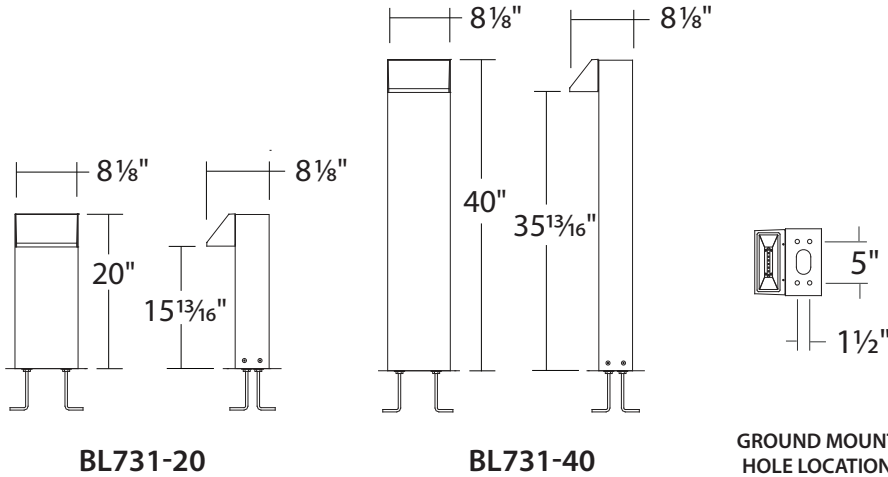


BL731 : 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)



- Sleek architectural design
- Durable, corrosion resistant finish
- 5-year limited warranty



Turtle Safe Requirements:

LOW: The product is designed for low to medium ceiling heights and delivered lumen output is sufficient to produce enough foot-candles to satisfy building codes but not overpower the environment with excessive lumen output.
SHIELDED: The trim is deeply recessed and provides a minimum of 50° of glare cutoff. The trim reflector color is black to limit reflections. The beam spread is tightly controlled.
LONG: LED color is verified as 585nm minimum and 595nm maximum.

ORDERING : BL731-20B-TAM-LVR

BL731						
Fixture		Height	Finish	Lens		LED
Height		Finish		Lens		LED
20"	-20	Black	B	Clear	Blank	590nm Amber
40"	-40	White	W ¹	Frosted	-FR	-TAM-LVR ¹
		Architectural Bronze	BZ ¹			
		Silver	S ¹			

¹Special Order. Minimum order or extended lead time may apply. Consult factory.

BL731 : 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION

Application

This single head bollard is designed for outdoor applications where a Dark Sky compliant illumination is required. Bollards are used to light walkways, public gathering spaces, gardens, along waterfronts and marinas and other public and private areas.

Post

High grade rectangular extruded aluminum with a high grade powder coat finish. Includes liquid tight plug for cord entry and a zinc plated steel base with a high grade powdercoat finish and an anchor bolt kit. The base is secured to the post by four (4) tamper resistant, stainless steel flat head screws and the base is mounted to the ground by four (4) anchor bolts and eight (8) nuts and washers. Note: A solid foundation for installation is recommended. Post can accommodate daisy chain and through wiring.

Head

Constructed from a two (2) piece high grade die cast aluminum with a high grade powder coat finish. Includes a clear tempered glass lens (sits flush to the head), LED array, reflector, LED driver, silicone gasket and a hole with liquid tight plugs for cord to exit the post. The two piece housing is secured together by four (4) tamper resistant stainless steel set screws and is secured to the post by two stainless steel screws.

Lumen Maintenance

Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results. See ordering guide for delivered lumens.

Thermal Management

Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Electrical

LED driver, 120VAC, 50/60Hz, electronic Constant Current, Class 2, Power Factor > .90pf, integrally mounted.

Certifications and Listings



ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

Note: Dark Sky compliant.

BL731 : 8"x4" TRAPEZOID BOLLARD

(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

SPECIFICATION (Continued)

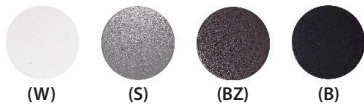
Caution

LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60 degrees C. Doing so will result in reduced lamp life and voided warranty.

Finish



Available in Black, White, Bronze, and Silver.

LED



Turtle Safe 590nm Amber.

BL731 : 8"x4" TRAPEZOID BOLLARD

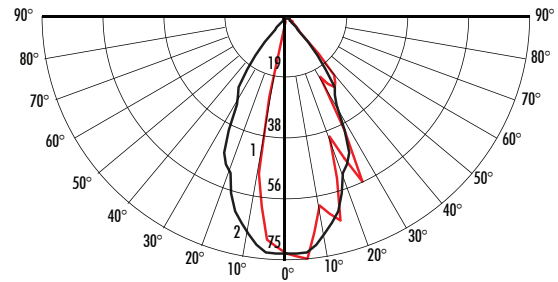
(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

PHOTOMETRY

BL731-20B-TAM-LVR

System Power	:9.7W
Test Date	:11/7/2019
Beam Angle 50%	:52.2° H / 38.8° V
Field Angle 10%	:88° H / 60.6° V
Nanometers (nm) (Amber)	:590nm
Lumens Delivered	:51.17
CBCP	:75
Power Factor	:0.98

CANDELA TABULATION

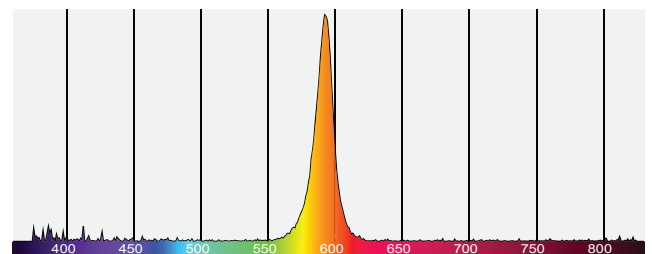


Maximum Candela = 75 Located At Horizontal Angle = 0, Vertical Angle = 5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Vertical Plane Through Horizontal Angles (90 - 270)

Statistics:

Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	○	+	3.0fc	20.8fc	0.10fc	500+	76.00

SPECTRAL DISTRIBUTION



Nanometers (nm) (Amber): 590nm

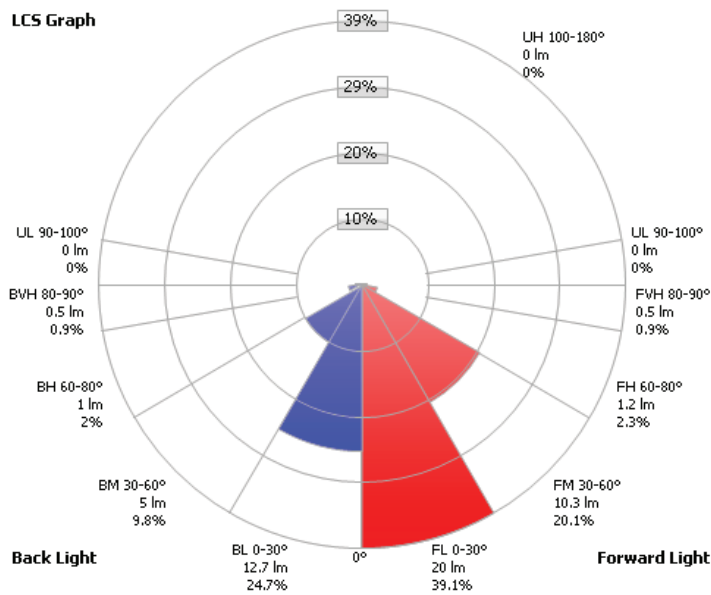
NOTES:

1. On center spacing: 4 ft
2. Distance between fc reading: 2 ft

LCS TABLE

BUG Rating	B0 - U1 - G0	
Forward Light	Lumens	Lumens %
Low (0-30):	20	39.10%
Medium (30-60):	10.3	20.10%
High (60-80):	1.2	2.30%
Very High (80-90):	0.5	0.90%
Back Light		
Low (0-30):	12.7	24.70%
Medium (30-60):	5	9.80%
High (60-80):	1	2.00%
Very High (80-90):	0.5	0.90%
Up Light		
Low (90-100):	0	0.00%
High (100-180):	0	0%
Trapped Light:	0.1	0%

LCS Graph



Scale = Max LCS %
 Trapped Light: 0.1lm, 0.2%

BL731 : 8"x4" TRAPEZOID BOLLARD

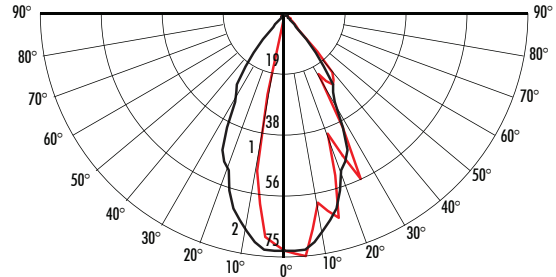
(IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

PHOTOMETRY (Continued)

BL731-40B-TAM-LVR

System Power	: 9.7W
Test Date	: 11/7/2019
Beam Angle 50%	: 52.2° H / 38.8° V
Field Angle 10%	: 88° H / 60.6° V
Nanometers (nm) (Amber)	: 590nm
Lumens Delivered	: 51.17
CBCP	: 75
Power Factor	: 0.98

CANDELA TABULATION



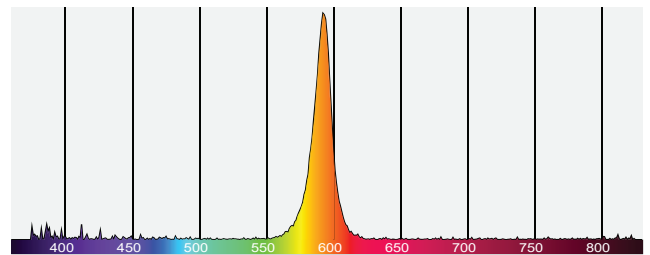
Maximum Candela = 75 Located At Horizontal Angle = 0, Vertical Angle = 5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Vertical Plane Through Horizontal Angles (90 - 270)

Statistics:

Description	Bollard Symbol	FC loc. Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	○	+	1.1fc	8.5fc	0.10fc	412	55.00

+0.0	+0.0	+0.1	+0.0	+0.0	+0.0	+0.1	+0.0	+0.0
+0.0	+0.4	+1.6	+0.4	+0.1	+0.4	+1.6	+0.4	+0.0
+0.1	+1.7	⊕8.2	+1.8	+0.2	+1.8	⊕8.2	+1.7	+0.1

SPECTRAL DISTRIBUTION



Nanometers (nm) (Amber): 590nm

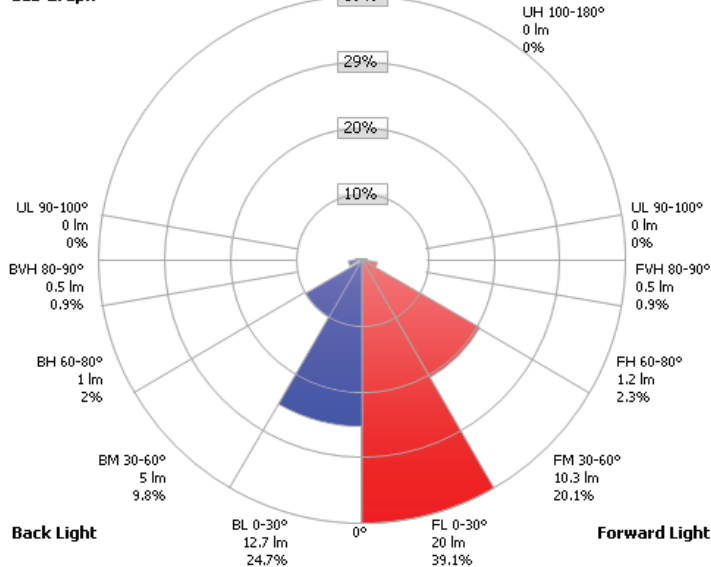
NOTES:

1. On center spacing: 8 ft
2. Distance between fc reading: 2 ft

LCS TABLE

BUG Rating	B0 - U1 - G0	
Forward Light	Lumens	Lumens %
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High (60-80):	1	2.00%
Very High (80-90):	0.5	0.90%
Up Light		
Low (90-100):	0	0.00%
High (100-180):	0	0%
Trapped Light:	0.1	0%

LCS Graph



Scale = Max LCS %

Trapped Light: 0.1lm, 0.2%