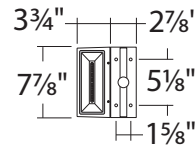
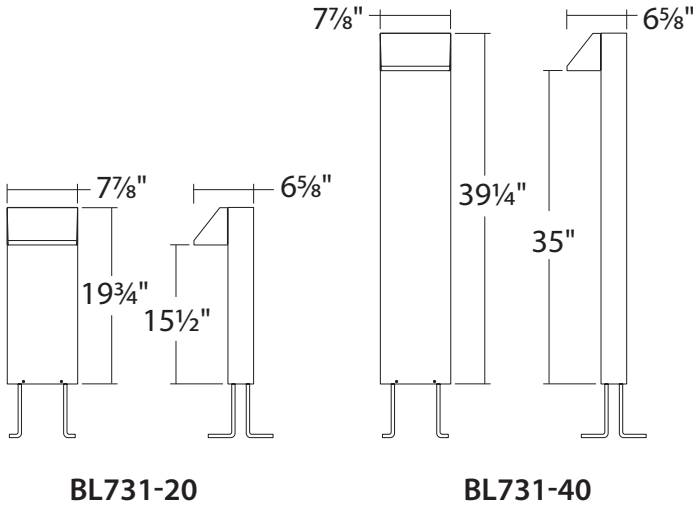


# BL731 : 8"x4" TRAPEZOID BOLLARD

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



- Sleek architectural design
- Durable, corrosion resistant finish
- 5-year limited warranty
- IK08 Rated



GROUND MOUNT HOLE LOCATION



### 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                      | Options                     |
|----------------|--------|-----------------------|---------|--------------------------|-----------------------------|
| Height         | Finish | Lens                  | LED     | Options                  |                             |
| 20" <b>-20</b> | Black  | <b>B</b>              | Clear   | <b>Blank</b> 590nm Amber | <b>-TAM-LVR<sup>2</sup></b> |
| 40" <b>-40</b> | White  | <b>W<sup>1</sup></b>  | Frosted | <b>-FR</b>               |                             |
|                | Bronze | <b>BZ<sup>1</sup></b> |         |                          |                             |
|                | Silver | <b>S<sup>1</sup></b>  |         |                          |                             |
|                |        |                       |         |                          | Options                     |
|                |        |                       |         |                          | None                        |
|                |        |                       |         |                          | <b>Blank</b>                |
|                |        |                       |         |                          | Cold Weather                |
|                |        |                       |         |                          | <b>-CW</b>                  |
|                |        |                       |         |                          | Marine Grade Finish         |
|                |        |                       |         |                          | <b>-MGD<sup>1</sup></b>     |

<sup>1</sup> Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult factory.  
<sup>2</sup> Special Order. Minimum Order. Extended lead time may apply. Consult factory.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

## SPECIFICATION

### Application

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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

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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

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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

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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

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

### Electrical

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

Minimum Operating Temperature:  
Standard: -10°C/14°F  
Cold Weather Option: (-CW) -30°C/-22°F

### Certifications and Listings

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ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

**Note:** Dark Sky compliant.

## SPECIFICATION (Continued)

### Caution

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

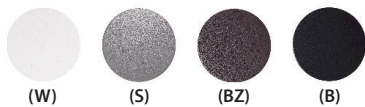
### Warranty

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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

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A available in Black, White, Bronze, and Silver.

### LED

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Turtle Safe 590nm Amber.

### Marine Grade

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The fixture features a marine-grade textured powder coat finish engineered to withstand extreme environmental conditions, including prolonged exposure to UV radiation, salt air, and moisture, which are prevalent in coastal and high-humidity environments.

A multi-stage surface preparation, finishing, and curing process ensures maximum adhesion, durability, and corrosion resistance. The coating system undergoes rigorous salt spray (ASTM B117) testing, overbake resistance verification, and pencil hardness testing to validate its robustness against degradation.

The marine-grade powder coat is applied as a 30–50  $\mu\text{m}$  bottom layer, providing a strong anti-corrosion foundation. This is further enhanced by a surface coat using a standard architectural-grade powder application with a total thickness of 80–120  $\mu\text{m}$ , ensuring superior resistance to wear, impact, and environmental stressors.

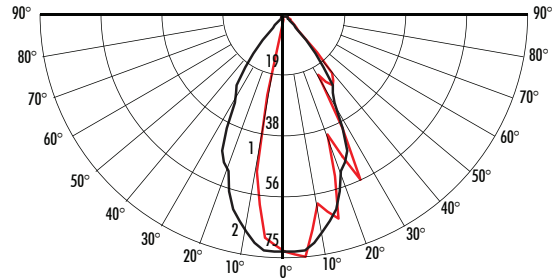
# BL731 : 8"x4" TRAPEZOID BOLLARD (IP65) - 590NM - AMBER (TURTLE SAFE) (15W)

## 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



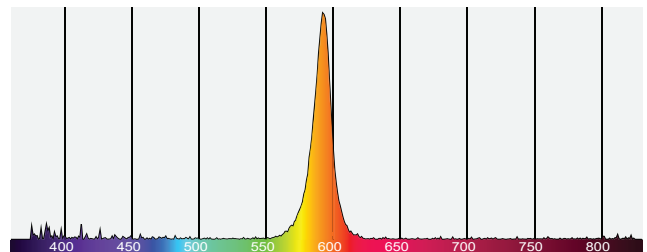
Maximum Candela = 75 Located At Horizontal Angle = 0, Vertical Angle = 5  
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 # 2 - Vertical Plane Through Horizontal Angles (90 - 270)

### 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   |

|      |       |      |       |      |
|------|-------|------|-------|------|
| +0.0 | +0.1  | +0.1 | +0.1  | +0.0 |
| +0.1 | ⊕20.8 | +0.3 | ⊕20.8 | +0.1 |

### SPECTRAL DISTRIBUTION



Nanometers (nm) (Amber): 590nm

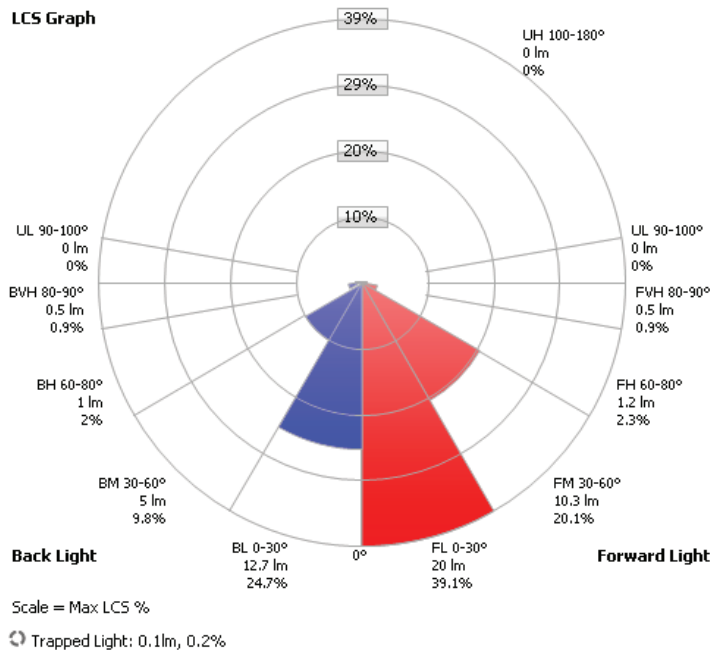
### NOTES:

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

### LCS TABLE

| BUG Rating         | B0 - U0 - 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



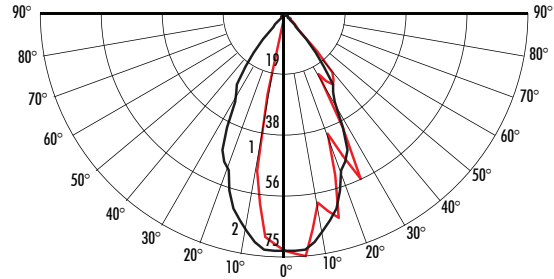
2019.11.11

## 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



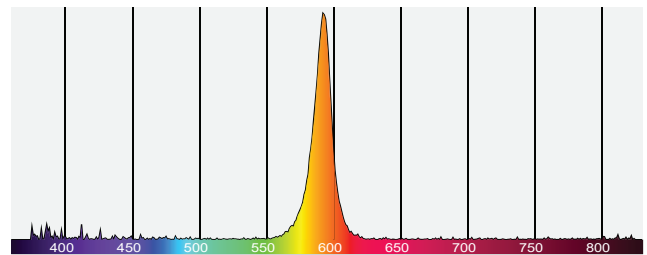
Maximum Candela = 75 Located At Horizontal Angle = 0, Vertical Angle = 5  
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 # 2 - Vertical Plane Through Horizontal Angles (90 - 270)

### 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

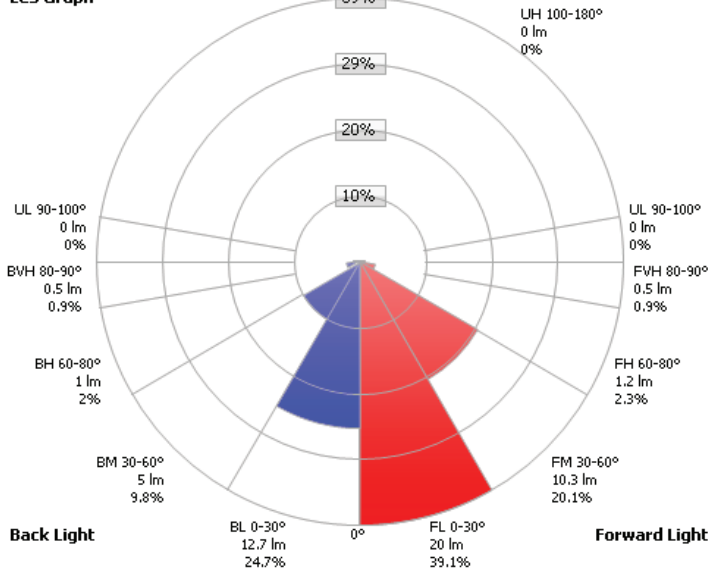
### NOTES:

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

### LCS TABLE

| BUG Rating         | B0 - U0 - 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%    |
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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%

2019.11.11