SOLID STATE BOLLARDS

BSA SERIES-LED

SPECIFICATIONS

PROJECT NAME:

FIXTURE TYPE:

BOLLARD
Durable corrosion resistant extruded and cast aluminum construction. ¼" wall thickness. Lens surrounds clear anodized twin reflector system.

LED POWER ARRAY™
Three-dimensional array consisting of 6 individual LED tubes for the BDA8 model and 4 individual LED tubes for the BDA6 model, which are fastened to a retaining plate equally spaced to provide 360° of even illumination output. Each LED tube consists of a circuit board populated with a multiple of LED's which is fastened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED tube's internal components and provides diffusion to prevent shadowing and striations.

INTERNAL LOUVER (IL) - A specular louver stack conceals the inner LED Power Array Module and provides uplight and glare control through the external clear polycarbonate lens.

CAST LOUVER (CL) - External cast aluminum louver stack protects the internal LED Power Array Module and provides uplight and glare control. An internal clear polycarbonate lens is integrated with the LED Power Array Module.

OPAL LENS (WP) - Exterior white polycarbonate lens protects the internal LED Power Array Module and provides a uniform white glow.

RADIAL LED MODULE
LED'S are mounted to a circular heatsink in a radial array. The radial LED module is concealed in the cap of the bollard. LED's are not directly visible from angles above 90°.

PARABOLIC REFLECTOR (TR) - A specular Parabolic Reflector reflects a portion of the distribution from the radial LED module and provides a uniform wide angle throw through the outer clear polycarbonate lens.

LED EMITTERS
High Output LED's are driven at 350mA for nominal 1 Watt output each. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER
UL and CUL recognized Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining bracket. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimmable and High-Low Driver options available.

FINISH
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

BSA

BSA8 SHOWN WITH **-IL** OPTICS

PATENT PENDING

BOLLARD	A	B	C	D
BSA8	42" 1067mm	8" 203mm	6" 152mm	8" 203mm
BSA6	42" 1067mm	6" 152mm	4" 102mm	6" 152mm

U.L. Listed for wet location

MADE IN THE USA

2015239

U.S. Architectural Lighting

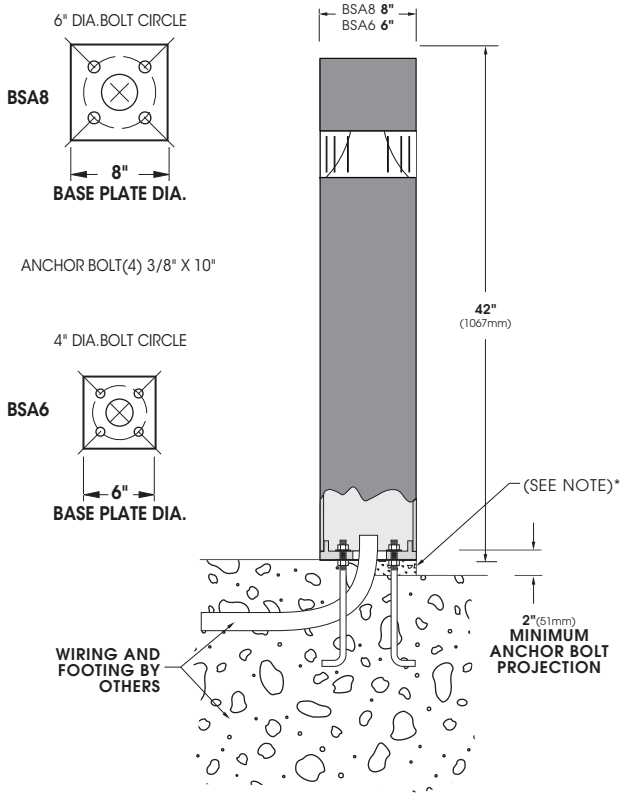
660 West Avenue O, Palmdale, CA 93551
Phone (661) 233-2000 Fax (661) 233-2001
www.usaltg.com

U.S. ARCHITECTURAL LIGHTING

BSA SERIES-LED

SPECIFICATIONS

INSTALLATION



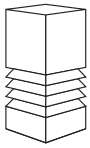
*When mounting in soil, anchor bolt fasteners and other hardware must be protected from soil by grouting.

OPTICS

INTERNAL LOUVER SUPPLIED WITH CLEAR POLYCARBONATE LENS

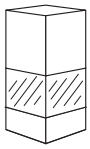
IL

CAST LOUVER

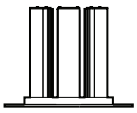


CL

OPAL POLYCARBONATE



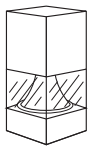
WA



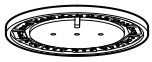
VPA - Vertical Array
BSA8 Available in:
36 LED Max

BSA6 Available in:
24LED Max

PARABOLIC REFLECTOR



TR



RADIAL LED Module
BSA8 Available in:
18 LED Module

BSA6 Available in:
12 LED Module

Spec/Order Example: BSA8-CL/36LED2480CW/RAL-9003-S/20SP

ORDERING INFORMATION

BOLLARD	OPTICS	# of LED's	COLOR	VOLTAGE	MOUNTING	FINISH	OPTIONS

BOLLARD

- ☐ **BSA8-LED**
- ☐ **BSA6-LED**

OPTICS

VERTICAL POWER ARRAY

- ☐ INTERNAL LOUVER . . . . . **IL**
- ☐ CAST LOUVER . . . . . **CL**
- ☐ OPAL POLYCARBONATE . . . . . **WP***

RADIAL LED MODULE

- ☐ PARABOLIC REFLECTOR . . . . . **TR**

***-WP** OPTICS USE OPAL POLYCARBONATE LENS

LED

# of LEDs

- ☐ **36LED**[1] (42 Watts)
- ☐ **24LED** (28 Watts)
- ☐ **18LED**[1] (21 Watts)
- ☐ **12LED**[2] (15 Watts)

COLOR

- ☐ **NW** (4000K) Standard
- ☐ **CW** (5000K)
- ☐ **WW** (3000K)

OTHER LED COLORS AVAILABLE CONSULT FACTORY

VOLTAGE

- ☐ **120**
- ☐ **208**
- ☐ **240**
- ☐ **277**
- ☐ **347**
- ☐ **480**

NOTES:
1 – AVAILABLE IN BSA8 ONLY.
2 – AVAILABLE IN BSA6 ONLY.

MOUNTING

- ☐ **GROUND INSTALLATION** . . . . (STANDARD)
- ☐ **WM** . . . . . .

FINISH

STANDARD TEXTURED FINISH

- ☐ BLACK **RAL-9005-T**
- ☐ WHITE **RAL-9003-T**
- ☐ GREY **RAL-7004-T**
- ☐ DARK BRONZE **RAL-8019-T**
- ☐ GREEN **RAL-6005-T**

FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)

SEE USALTG.COM FOR ADDITIONAL COLORS

OPTIONS

- ☐ DIMMABLE DRIVER (0-10V PROVIDED) . . . . . **DIM**
- ☐ HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR . . . . . **HLSW**
- ☐ INTERNAL HOUSE SIDE SHIELD. . . . **HS**
- ☐ DUPLEX RECEPTACLE . . . . . **DUP**
- ☐ GROUND FAULT RECEPTACLE . . . . . **GFI**
- ☐ 10KV SURGE PROTECTOR. **10SP**
- ☐ 20KV SURGE PROTECTOR (277V & 480V Only) **20SP**

OPTIONAL HEIGHTS:

- ☐ **30"**
- ☐ **36"**

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