

SOLID STATE LIGHTING

MOZART BOLLARD-LED

S P E C I F I C A T I O N S

FIXTURE HOUSING

Optical Crown, Arms and Hub are welded to create a one piece unitized Housing consisting of precise heavy wall cast low copper (A356 alloy; < 0.2%Cu) aluminum. Hood is fastened to the Housing with a stainless steel hinge and secured with a single stainless steel hex head cap screw 180° opposite the hinge. Hood and Optical Crown are sealed with an extruded closed cell silicone gasket. Driver/wiring accessed through top of Electrical Access Hub. All exposed hardware is stainless steel.

RISER AND BASE COVER

Riser is extruded aluminum shaft (6063-T6 Alloy) either smooth or fluted with a minimum wall thickness of .188". Riser is welded to a cast aluminum (A356 alloy; <0.2% Cu) base. Base cover is a 2-piece aluminum casting (A356 alloy; <0.2% Cu) that completely cover the anchors bolts and Riser anchor base.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVER(S)

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS

High output LED's are utilized with drive currents ranging from 175mA to 350mA. 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.

AMBER LED's

PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. **TRA** (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

PROJECT NAME: _____

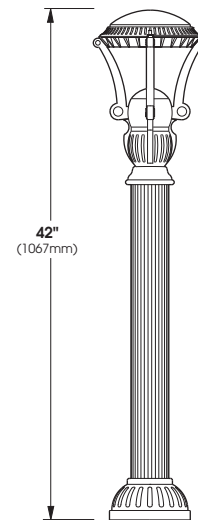
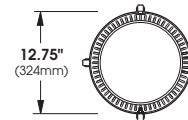
FIXTURE TYPE: _____



MOZB*

*SHOWN WITH FLUTED RISER

PATENT PENDING



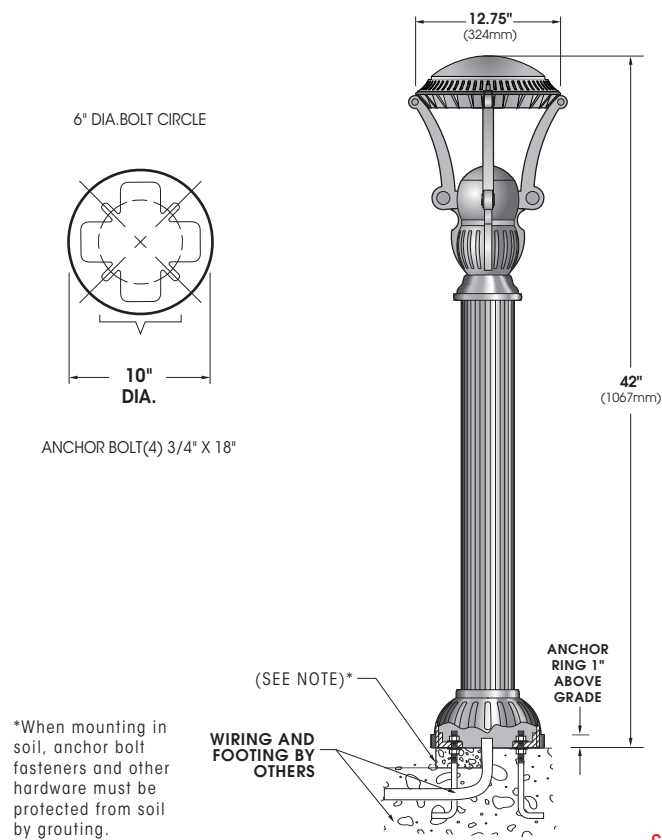
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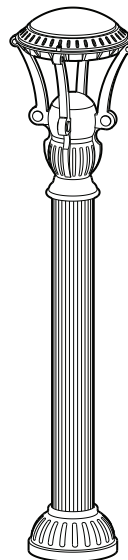
MOZART BOLLARD - PLED

SPECIFICATIONS

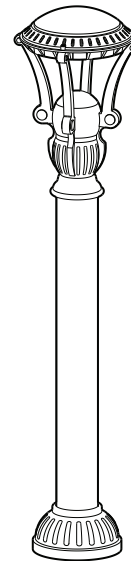
GROUND MOUNTING



PLED® MODULES



MOZB-FL
(Fluted Riser)
Available in:
20LED Module



MOZB-SM
(Smooth Riser)
Available in:
20LED Module



20 LED MODULE

Spec/Order Example: MOZB-SM/PLED-III/20LED-350mA/NW/277/RAL-9003-S/HS-PLED

SPEC / ORDERING INFORMATION

BOLLARD	OPTICS	# of LED's	DRIVE CURRENT	COLOR	VOLTAGE	FINISH	OPTIONS
BOLLARD	OPTICS	LED			VOLTAGE	FINISH	OPTIONS
<input type="checkbox"/> MOZB-FL (FLUTED RISER) <input type="checkbox"/> MOZB-SM (SMOOTH RISER)	PLED® MODULES IES DISTRIBUTION TYPE <input type="checkbox"/> TYPE II PLED-II	<input type="checkbox"/> 20LED	<input type="checkbox"/> 175mA <input type="checkbox"/> 350mA	<input type="checkbox"/> NW (4000K) *STANDARD <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) <small>OTHER LED COLORS AVAILABLE CONSULT FACTORY</small>	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T	<input type="checkbox"/> HOUSE SIDE SHIELDS HS-PLED <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR HLSW <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . PC+V <input type="checkbox"/> TWIST LOCK PHOTOCELL +VOLTAGE TPC+V <input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) . SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) . DF <small>CONTACT FACTORY FOR STEP DIM MOTION SENSOR (PROGRAMMED 50/100)</small>
	<input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR <input type="checkbox"/> TYPE III MED. PLED-III M <input type="checkbox"/> TYPE III WIDE PLED-III W <input type="checkbox"/> TYPE IV PLED-IV <input type="checkbox"/> TYPE IV PLED-IV-FT <input type="checkbox"/> TYPE V NARROW PLED-V-SQ-N <input type="checkbox"/> TYPE V MED. PLED-V-SQ-M <input type="checkbox"/> TYPE V WIDE PLED-V-SQ-W		FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S) <small>SEE USALTG.COM FOR ADDITIONAL COLORS</small>				



MOZART BOLLARD - PLED

ELECTRICAL GUIDE

LED COUNT	SOURCE TYPE	SOURCE	INITIAL LUMENS - 4000K	INITIAL LUMENS - 3000K	INITIAL LUMENS - 5000K	L70 GREATER THAN (HR)-TM21	STARTING TEMP.	SYSTEM WATTS	VOLTS	MAX INPUT AMPS
20	LED	20 PLED® Optical Module - 175mA	1,401 - 1,404	1,226 - 1,229	1,434 - 1,438	60,000+	-20°F	12	120 277	0.24 0.10
20	LED	20 PLED® Optical Module - 350mA	2,501 - 2,789	2,189 - 2,442	2,561 - 2,857	60,000+	-20°F	23	120 277	0.24 0.10

NOTES:

1. Max Input Amps is the highest of starting, operating, or open circuit currents
2. Lumen values for LED Modules vary according to the distribution type
3. System Watts includes the source watts and all driver components.
4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 10KV - 20KV surge suppressors.
5. L70(10K) - TM-21 6x rule applied
L70(10K) - Calculated = 244,000 @ 700mA

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.