



ZUMALIGHTING
QUALITY OUTDOOR SOLUTIONS



MODEL
ORION

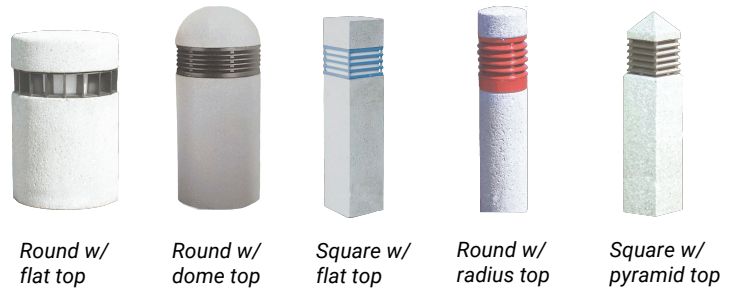
TYPE
LED

SERIES
BOLLARDS

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ORDERING INFORMATION

Model ORION
Type LED
Series Bollards



FIXTURE	SIZE	TOP	SOURCE	VOLTS	LAMP / TEMP	CONCRETE COLOR	CONCRETE TEXTURE
ORI-R = Round	8 = 8" dia. x 42"H	FT = Flat Top	10W	U = 120v-277v	3K = 3000K	NL = Natural	1 = Smooth
ORI-S = Square	10 = 10" dia. x 42"H	DT = Dome Top (round only)	20W	8 = 480v	4K = 4000K	BF = Buff	2 = Light
	12 = 12" dia. x 42"H	PT = Pyramid Top (square only)	30W		5K = 5000K	BN = Brown	3 = Medium
	16 = 16" dia. x 42"H	RT = Radius Top (round only)	40W			BK = Black	4 = Heavy
	18 = 18" dia. x 42"H		50W			WT = White	
	CS = Custom size, consult factory		60W			CC = Custom	
LENS	LOUVERS	LOUVER COLOR	OPTIONS				
CA = Clear Acrylic	L1 = 45° cut-off louvers*	DB = Dark Bronze	SP = Surge protection				
FA = Frosted Acrylic	L2 = Horizontal louvers	BK = Black	CS = 180° Shield				
OA = Opal Acrylic	L3 = Vertical louvers	WH = White	AG = Anti-graffiti coating (consult factory)				
	*only available on 8" dia.	SL = Silver					
		CC = Custom Color					



*Custom height available



SPECIFICATIONS

Housing

The Orion concrete bollard series is available either round or square, in a variety of diameters and widths. The housing is fabricated from steel-reinforced pre-cast hollow core concrete. We offer four textures of sandblast finished concrete: smooth, light medium, and heavy.

Louvers

Rugged cast aluminum grilles, 360° around the bollard. The styles offered are horizontal, vertical, and 45° cutoff (only available on 8" bollards). The louvers are available in any standard or custom color finish.

LED

EncapLED, an IP66-rated ETL and DLC listed LED module system, combines optics and heat sink into one configurable unit which give precise light distribution. Available in either 360° or 180° pattern. It allows us to do 10w. increment adjustment on light output. The module achieves 110-120 lm/w efficacy with LUXEON LUMILEDS TX CHIPS. Beside maximizing heat dissipation surface, we also utilize convection-based heat management which creates additional air flow around each chip. Unlike a big metal heat sink where the temperature for the chips in the middle is higher than the rest, the heat of each EncapLED chip gets dissipated evenly. A better heat dissipation design keeps the junction temperature low and ultimately prolongs the life of the LED chips. Our modules are available in any of our fixture designs, as well as in a simple retro-fit kit form for existing fixtures.

Lens

Lens is fabricated from acrylic. Specify clear, frosted, or opal lens.

Mounting Options

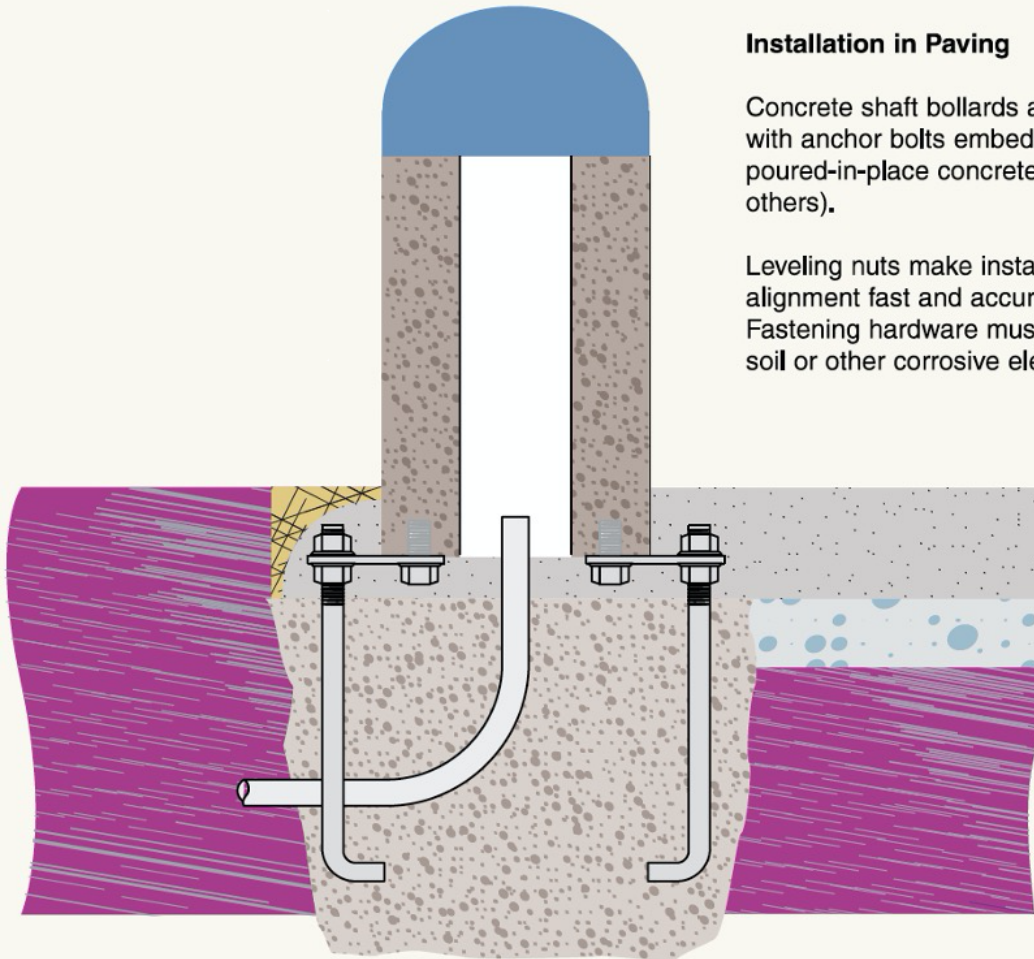
Anchor base mounted. Four (4) 3/8" x 12" galvanized anchor bolts are supplied, complete with two each nuts and washers. The anchor base plate is made of heavy-duty steel.

Finish

The standard finish is natural concrete. The other available colors are mixed into the concrete rather than applied to the surface, creating a uniform coloration across the entire bollard.

Certificates & Warranty

- DLC
- ETL
- Suitable for Wet Locations
- 5-Year Warranty



Installation in Paving

Concrete shaft bollards are installed with anchor bolts embedded in a poured-in-place concrete footing (by others).

Leveling nuts make installation and alignment fast and accurate. Fastening hardware must not contact soil or other corrosive elements.

MATERIALS KEY

