

The Orion Series of Concrete Bollards

EVERGREEN LIGHTING CORPORATION



Orion 10
round w/ flat top



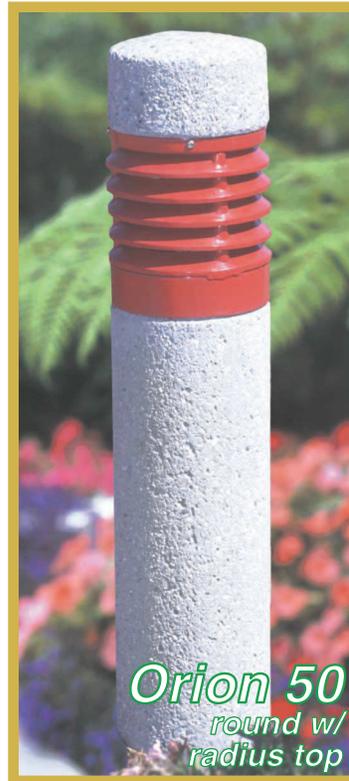
Orion 20
round w/ dome top



Orion 30
square w/
flat top



Orion 40
square w/
pyramidal top



Orion 50
round w/
radius top

ETL & CSA LISTED FOR WET LOCATIONS. FACTORY TESTED BEFORE SHIPMENT.

SHAPES – The Orion 10 is round with a flat top; the Orion 20 is round with a dome top; the Orion 30 is square with a flat top; the Orion 40 is square with a pyramidal top; and the Orion 50 is round with a radius top.

HOUSING – Steel-reinforced pre-cast hollow-core concrete. We offer four textures of sandblast-finished concrete: smooth, light, medium, and heavy. As an option, we offer tiles installed onto the housing shaft (the "handicapped parking" symbol, for example, or your logo, or decorative and other tiles to your specifications); see the Options table.

LOUVERS – Rugged cast aluminum grilles, 360° around the bollard. The styles offered are horizontal, vertical, and 45° cut-off. While any Orion may be specified with vertical louvers or horizontal louvers, the 45° cut-off louvers may be specified on 8" sizes only; please see the Louvers table.

LENS – Clear or opal white polycarbonate.

OPTICS – A 360° distribution pattern is standard. An optional internal "house side" 180° cut-off shield is available; please see the Options table.

ELECTRICAL COMPONENTS – Available in LED, MH, and fluorescent. All ballasts are CWA/HPF

regulating auto-transformers. Starting temperature for LED is -40°F, and MH starts at -20°F. Maximum wattage is 36W LED, 175W MH and 42W PL fluorescent. Fluorescent is available in 120V or 277V only.

SOCKET – HID sockets are glazed porcelain, medium base, rated to 600V. Fluorescent sockets are the standard PL-type.

MOUNTING – 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.

CONCRETE FINISH – The standard finish is natural concrete. The other available colors (buff, brown, black, or custom to your specifications) are mixed into the concrete rather than merely applied to the surface.

LOUVER FINISH – Finish is thermoset oven-baked powder coat, in any standard Evergreen Ltg Color. Custom colors are available to your specifications.

EVERGREEN LIGHTING MANUFACTURERS OF QUALITY LIGHTING EQUIPMENT

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The Orion Series *of Concrete Bollards*

	1	2	3	4	5	6	7	8	9	10
FIXTURE	SIZE	SOURCE	VOLTS	LAMP	LOUVERS	LOUVER COLOR	LENS	TEXTURE	CONCRETE COLOR	OPTIONS
OR	20/42/12	L24	7	L	3	BK	2	4	NL	MT, LS

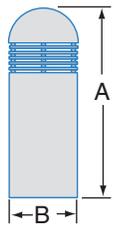
Create a catalog number from the tables below. Example number: OR – 20/42/12 – L24 – 7 – L – 3 – BK – 2 – 4 – NL – MT, LS

1 SIZE			
	Shape & Top	A	B
Size = 10	round, flat top	42"	8", 10", 12", 14", 16", or 18" dia.
Size = 20	round, dome top	42"	8", 10", 12", 14", 16", or 18" dia.
Size = 30	square, flat top	42"	8", 10", 12", 14", 16", or 18" sq.
Size = 40	square, pyramid top	42"	8", 10", 12", 14", 16", or 18" sq.
Size = 50	round, radius top	42"	8" diameter only

TO SPECIFY SIZE, PLEASE INCLUDE:

- the size number
- dimension "A"
- (42" is standard, or consult factory for custom)
- dimension "B".

Example:
10/42/12 = Size 10, 42" high, 12" diameter



2 LIGHT SOURCE		
	LED	MH
12W	L12	
24W	L24	
36W	L36	
100W		H2
150W		J2
175W		K2

FLUORESCENT

X = single PL **Y** = dual PL
(specify wattage up to single 42W or dual 13W)

3 VOLTAGE		
120V = 2	}	<i>Also available in Multi-Tap: see Options table</i>
208V = 0		
240V = 4		
277V = 7		
480V = 8		<i>Not available in Multi-Tap</i>

NOTE: FLUORESCENT SOURCES AVAILABLE IN 120V OR 277V ONLY.

4 LAMP
L = with lamp
N = no lamp

5 LOUVERS
1 = 45° cut-off louvers <i>(on 8" round and square sizes only)</i>
2 = horizontal louvers
3 = vertical louvers

6 LOUVER COLOR	
BK = Black	SL = Silver
GR = Green	GY = Gray
WH = White	BU = Blue
DB = Dark Bronze	CC = Custom Color <i>(consult factory)</i>
VP = Verde Patina	

7 LENS
1 = clear
2 = opal

8 TEXTURE
1 = smooth
2 = light
3 = medium
4 = heavy

9 CONCRETE COLOR
NL = Natural
BF = Buff
BN = Brown
BK = Black
CC = Custom Color <i>(consult factory)</i>

10 OPTIONS
MT = multi-tap transformer
LS = "house side" cut-off light shield
TL = tile <i>(please consult factory)</i>
FV = international ballast; specify cycles

E V E R G R E E N L I G H T I N G C O R P O R A T I O N