

Fixture Type: _____
 Model Number: _____
 Project Name: _____



QUADRA

Decorative Square LED Bollard



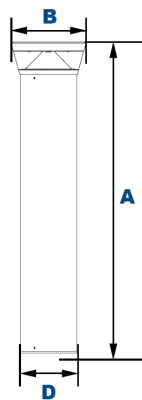
QUADRA WITH FLAT TOP



QUADRA WITH CONE TOP

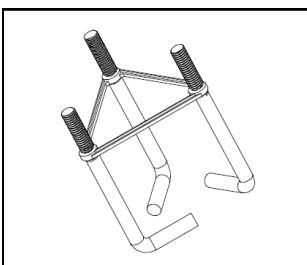


QUADRA FLAT TOP WITH MOTION SENSOR



Dimensions

Width (B)	9 1/4" (234mm)
Diameter (D)	7" (180mm)
Height (A)	Flat Top: 35-3/4" (908mm) Cone Top: 38-1/8" (968mm)



(3) anchor bolt mounting kit
(included with unit)

General: The Quadra square aluminum LED bollard is designed to replace an HID bollard up to 70 watts (MH or HPS). The Quadra bollard is ideal for pedestrian areas around retail centers, industrial and office parks, schools, airports, public transit, and healthcare facilities.

Housing: Extruded aluminum square housing with flush mounting base and vandal-resistant screws, flat or cone top. Powdercoat finish over a chromate conversion coating, internal driver tray for ease of maintenance.

Optics: Reflective white UV-stabilized polycarbonate internal cone reflector.

Outer Lens: UV-stabilized polycarbonate vandal resistant lens available in clear or opal.

Mounting: Mounting kit with three 8" zinc-plated anchor bolts; included with fixture.

Wattage: Array: 16 watts System: 17.7 watts
 Array: 23 watts System: 24.8 watts
 Array: 34 watts System: 37.2 watts

Driver: Electronic driver, 120v-277v (50/60Hz) or 347v (50/60Hz); <20% THD and PF>0.90. Internal surge protection 2kV. 0-10V dimming standard for a dimming range of 100% down to 10%.

Options: Surge Protection (-SP), Single Fuse (-SF), and Double Fuse (-DF) options available.

Height: Overall bollard height of 30" or 34-3/4".

Finish: Powdercoat over chromate conversion coating; Black (-BLK) and Bronze (-BRZ) finishes; Consult factory for custom color options.

Listings: CSA listed for wet locations
 ANSI/UL 1598, 8750
 IP66 | sealed LED compartment

content of specification sheet is subject to change.



IP 66



c us

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PHOTOMETRIC TECHNICAL DATA

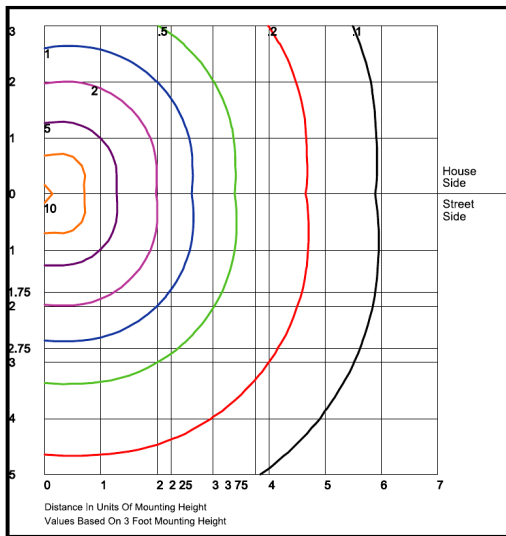
Optic	CCT	Wattage	23W	34W
		(Catalog Logic)	(1X23)	(1X34)
		Input Watts	17.7W	37.2W
Clear Lens Type V Optic	3000K	1,432	2,005	3,008
	4000K	1,554	2,175	3,263
	5000K	-	-	-
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U4-G1
Opal Lens Type V Optic	3000K	864	1,210	1,816
	4000K	938	1,313	1,969
	5000K	-	-	-
	BUG Rating	B0-U3-G1	B1-U3-G1	B1-U4-G2

Projected Lumen Maintenance

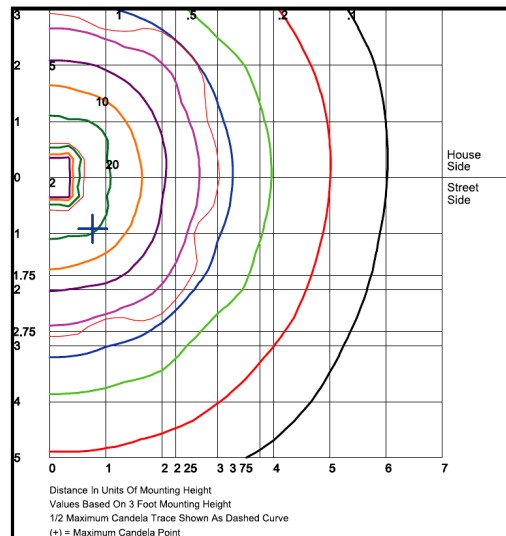
Data shown for 4000 CCT TM-21-11	Input Watts	Compare to MH				Calculated L70@ 25°C
		Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 34w	1.00	0.93	0.86	0.72	106,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.91	0.83	0.66	88,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.92	0.84	0.67	61,000

NOTES:

- Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.



QDR-7-B-34LED-4K-OPL
 grid in feet; mounting height = 3 feet



QDR-7-B-34LED-4K-CPL
 grid in feet; mounting height = 3 feet

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SERIES DIAMETER MOUNTING WATTAGE COLOR (K) TOP STYLE LENS OPTIONS VOLTAGE HEIGHT FINISH

QDR 7 - B - - - - - UNV - -

MODEL NUMBER DETAIL

- | | | |
|------------------|--|--|
| SERIES | <input type="checkbox"/> QDR | Quadra Decorative Square LED Bollard |
| DIAMETER | <input type="checkbox"/> 7 | 7" Diameter |
| MOUNTING | <input type="checkbox"/> B | Bollard Mount |
| WATTAGE | <input type="checkbox"/> 16LED
<input type="checkbox"/> 23LED
<input type="checkbox"/> 34LED | 16-watt LED Module
23-watt LED Module
34-watt LED Module |
| COLOR (K) | <input type="checkbox"/> 3K
<input type="checkbox"/> 4K | 3000K
4000K |
| TOP STYLE | <input type="checkbox"/> C
<input type="checkbox"/> F | Cone Top
Flat Top |
| LENS | <input type="checkbox"/> CPL
<input type="checkbox"/> OPL | Clear UV-Stabilized Polycarbonate Lens (vandal resistant)
Opal UV-Stabilized Polycarbonate Lens (vandal resistant) |
| OPTIONS | <input type="checkbox"/> SF
<input type="checkbox"/> DF
<input type="checkbox"/> SP
<input type="checkbox"/> GFI
<input type="checkbox"/> MS
<input type="checkbox"/> BBU | Single Fuse
Double Fuse
Surge Protection
GFCI Outlet, 15A, 120V
Internal Microwave Motion Sensor (120v-277v only)
Battery Back Up; 90 minutes |
| VOLTAGE | <input type="checkbox"/> UNV
<input type="checkbox"/> 347V | Universal Voltage (120v-277v) (50/60Hz); electronic dimmable driver
347 Volt (50/60Hz); electronic dimmable driver (not available in 16-watt) |
| HEIGHT | <input type="checkbox"/> 30
<input type="checkbox"/> 34 | 30" Overall Height
34-3/4" Overall Height |
| FINISH | <input type="checkbox"/> BLK
<input type="checkbox"/> BRZ
<input type="checkbox"/> CC | Black
Bronze
Custom Color - Consult Factory |

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