

OONA-S Square Flat Bollards

L70
25°C

147,000 Hours



NEW Soft Shine Low Glare White Cone Reflector
Daytime View Nighttime View
(Dome Top Shown for Visual Concept)



Glass
OONA-S-GQ



LED Cone Reflector
OONA-S-RLQ



Square Louvers
OONA-S-LSQ



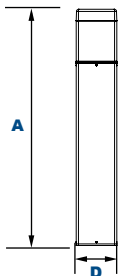
SoftLED LumaLens
Opal Array Lens



Shown with "S5"
Sensor



Shown with GFCI



Dimensions

Length (D)	7" (177mm)
Height (A)	41 1/2" (1,051mm)

The OONA-S Bollards with choice of optics are designed to replace HID lighting systems up to 70w MH or HPS. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

Specifications and Features:

Housing:

Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Flat Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.

Listing & Ratings:

ETL: Listed for Wet Locations, ANSI/UL 1598, 8750; IP65 Sealed LED Compartment.

Finish:

Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Style:

Clear Prismatic Borosilicate Glass Refractor, Specially Designed Cone Reflector or Internal Louvers

Lens:

Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens or SoftLED LumaLens UV-Stabilized Polycarbonate Opal Vandal-Resistant Lens

Mounting Options:

Mounting Kit with 8" Zinc-Plated Anchor Bolts, Included.

EasyLED LED:

Aluminum Boards

Wattage:

Array: 10w, System: 11.3w; (70w HID Equivalent)
Array: 14.5w, System: 17w; (70w HID Equivalent)
Array: 22w, System: 23.8w; (70w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz (15w Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 2kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Controls:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Please consult factory for remote direct wired interface of 1-10V Dimming, fixtures are not wired for remote control connection standard and may not be available in this configuration. Fixtures are NOT designed for use with line voltage dimmers.

Warranty:

5-Year Warranty for -40°C to +40°C Environment.

See Page 4 for Projected Lumen Maintenance Table.

Project Information:

Project Name:	Fixture Type:
Complete Catalog #:	Date:
Comments:	

Certification & Listings:



SoftLED

Order Information Example:

OONA-S-RLQ-F-1X22-U-5K-Z-36-SF

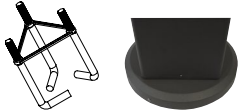
Model	Optics	Wattage	Driver	CCT	Lens	Color	Height	Options
OONA-S-RWQ =Square Flat Bollard with Soft Shine Low Glare White Cone Reflector OONA-S-RLQ =Square Flat Bollard with LED Cone Reflector OONA-S-GQ =Square Flat Bollard with Glass OONA-S-LSQ =Square Flat Bollard with Square Louvers	C =Type III* F =Wide Beam Spread *Not Available on LSQ	1X10 =10w 1X15 =15w 1X22 =22w	U =120-277V C =347V* *15w Model Only	3K =3000K 4K =4000K 5K =5000K	(Leave Blank) =Clear Lens L =SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* *Type V White Cone Reflector Only	Z =Bronze B =Black C =Custom (Consult Factory)	(Leave Blank) =42" Standard Height 36 =36" Height 30 =30" Height	SF =Single Fuse* DF =Double Fuse* SP =Surge Protection GF1 =GFCI Outlet, 15A, 120V PC3 =Photocell, 120-277VAC S5 =Microwave Sensor with Dimming & Remote Programming. See P17125 Spec. Page for Details.* BU =Battery Backup, 90 Minutes* BUC =Cold Start Battery Backup, -20°C, 90 Minutes* *120-277V Models Only.

Accessories & Replacement Parts:

Mounting Accessories (Order Separately, Field Installed)

BOLAN4	Mounting Kit, Includes Bracket & Three (3) 4" Zinc-Plated Anchor Bolts
BOLAN8	Mounting Kit, Includes Bracket & Three (3) 8" Zinc-Plated Anchor Bolts
BOLAN12	Mounting Kit, Includes Bracket & Three (3) 12" Zinc-Plated Anchor Bolts
BOLAN15	Mounting Kit, Includes Bracket & Three (3) 15" Zinc-Plated Anchor Bolts
BREBASE*	Bollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Fits Bollards. Die Cast with Powdercoat Finish, Hardware Included. 11½" Dia. x 1½" H

*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)



BOLAN **BREBASE***

*Shown Mounted

Accessories (Order Separately, Field Installed)

P17126 Remote Programming Tool for P17125



P17126

Replacement Parts (Order Separately, Field Installed)

P18103	120-277VAC Photocell
P17125	Internal Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17125 Spec. Page for Details.
BOSPC	Replacement Square UV-Stabilized Polycarbonate Vandal-Resistant Lens
BOSPCLL	Replacement SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens
BOSBASE*	Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating.

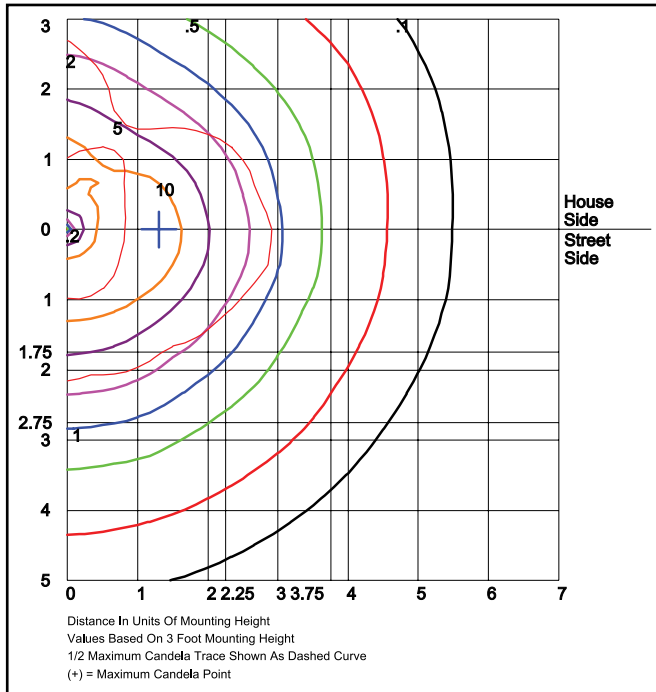
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)

For Replacement Battery Backup, see the LED Battery Backup Specification Sheet.



P18103 **P17125** **BOSPC, BOSPCLL** **BOSEBASE**

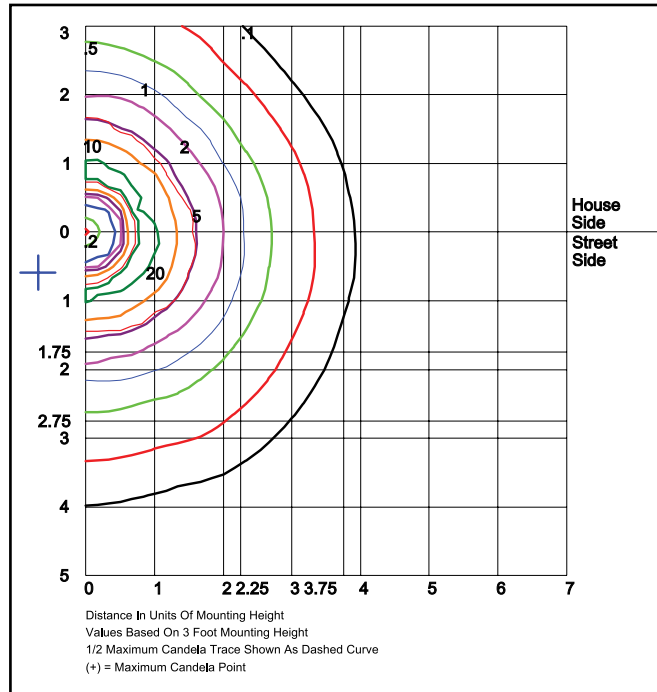
Photometric Data



OONA-S-GQ-C-1X22-U-5K

Type III

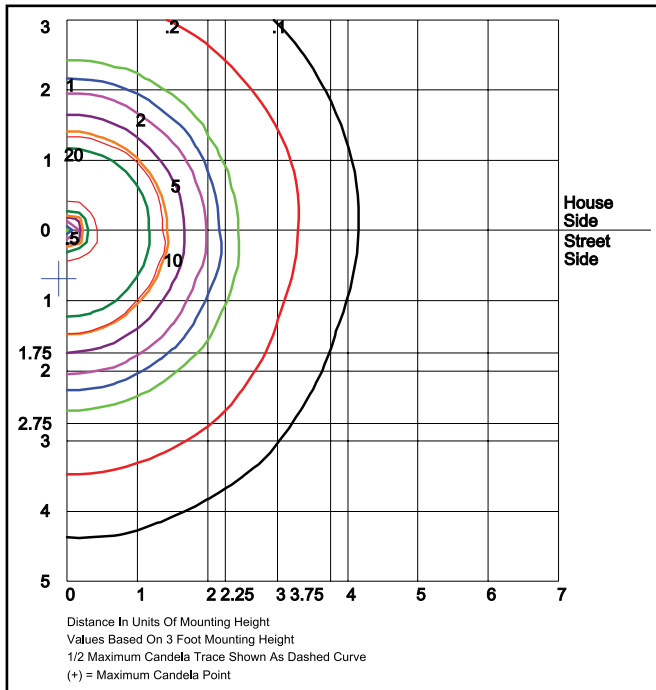
Grid in feet, Mounting Height = 3 ft.



OONA-S-RLQ-F-1X22-U-5K & ONNA-S-RWQ-F-1X22-U-5K

Type V

Grid in feet, Mounting Height = 3 ft.



OONA-S-LQ-F-1X22-U-5K

Type V

Grid in feet, Mounting Height = 3 ft.

Photometric Performance

	Wattage (Catalog Logic)	10W (1X10)	15W (1X15)	20W (1X22)
	Input Watts	11.3W	15.9W	23.8W
Optic	CCT	Delivered Lumens		
OONA-S-RWQ & RLQ Cone Reflector C=Type III Optic Clear Lens	3000K	738	1,033	1,549
	4000K	800	1,120	1,680
	5000K	834	1,167	1,750
	BUG Rating	B0-U2-G1	B1-U3-G1	B1-U3-G1
OONA-S-RWQ & RLQ Cone Reflector F=Type V Optic Clear Lens	3000K	1,037	1,452	2,178
	4000K	1,125	1,575	2,362
	5000K	1,172	1,641	2,461
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
OONA-S-GQ Glass C=Type III Optic Clear Lens	3000K	787	1,101	1,652
	4000K	853	1,195	1,792
	5000K	889	1,245	1,867
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
OONA-S-GQ Glass F=Type V Optic Clear Lens	3000K	768	1,076	1,613
	4000K	833	1,167	1,750
	5000K	868	1,215	1,823
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
OONA-S-LQ Louvers F=Type V Optic Only Clear Lens	3000K	531	744	1,116
	4000K	576	807	1,211
	5000K	600	841	1,261
	BUG Rating	B0-U2-G0	B1-U2-G1	B1-U3-G1
OONA-S-RWQ White Cone Reflector F=Type V Optic LumaLens	3000K	659	715	745
	4000K	922	1001	1042
	5000K	1,384	1,501	1,564
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1

Projected Lumen Maintenance

Data shown for 5000 CCT		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 24w	1.00	0.95	0.90	0.80	147,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.89	0.78	0.55	67,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.92	0.85	0.70	66,000

NOTES:

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