

ThermaLED Round Dome Bollards

ThermaLED Technology



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L70
(25°C) **147,000 Hours**



NEW Soft Shine Low Glare White Cone Reflector
Daytime View Nighttime View



Glass
ECBOGQ



Louvers
ECBOLQ



LED Cone Reflector
Shown with Glare Shield
ECBORLQ



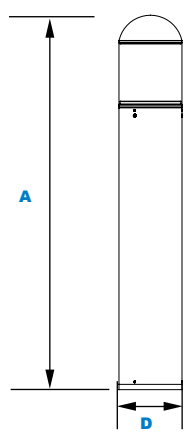
SoftLED LumaLens
Opal Array Lens



Shown with GFCI



Shown with "S3" Sensor



Dimensions	
Diameter (D)	7" (178mm)
Height (A)	42 1/4" (1,073mm)

The Eco-Revolution ThermaLED Bollards with choice of optics and lenses 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, Domed Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.
Listing & Ratings:	CSA: 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.
ThermaLED LED:	Aluminum Boards
Wattage:	Array: 10w, System: 11.3w Array: 14.5w, System: 17w Array: 22w, System: 23.8w
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 Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with Eco-Revolution Controls and May Not Function Properly With Controls Supplied By Others. 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.

Certification & Listings:



Project Information:

Project Name: _____
 Complete Catalog #: _____
 Comments: _____

Fixture Type: _____
 Date: _____

5 LOCATIONS
Tampa, FL
Vancouver, WA
Cerritos, CA
Walden, NY
Memphis, TN

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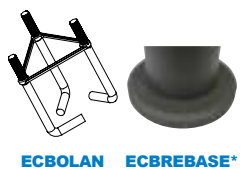


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Order Information Example:		ECBORLQF1X22U5KZ36SF						
Model	Optics	Wattage	Driver	CCT	Lens	Color	Height	Options
ECBORWQ =Round Dome Bollard with Soft Shine Low Glare White Cone Reflector ECBORLQ =Round Dome Bollard with LED Cone Reflector ECBOGQ =Round Dome Bollard with Glass ECBOLQ =Round Dome Bollard with Louvers	C =Type III* F =Wide Beam Spread *ECBORWQ, ECBORLQ & ECBOGQ only	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 GSB =180° Glare Shield, Black GSZ =180° Glare Shield, Bronze GSC =180° Glare Shield, Custom Color (Consult Factory) S3 =Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See ECP17121 Spec. Page for Details. BU =Battery Backup, 90 Minutes* BUC =Cold Start Battery Backup, -20°C, 90 Minutes* *120-277V Models Only.

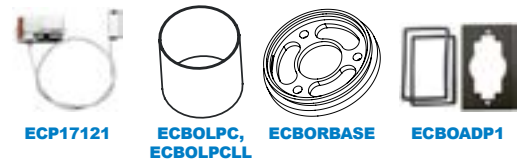
Accessories & Replacement Parts:

Mounting Accessories (Order Separately, Field Installed)	Accessories (Order Separately, Field Installed)	Replacement Parts (Order Separately, Field Installed)
ECBOLAN4 Mounting Kit, Includes Bracket & Three (3) 4" Zinc-Plated Anchor Bolts ECBOLAN8 Mounting Kit, Includes Bracket & Three (3) 8" Zinc-Plated Anchor Bolts ECBOLAN12 Mounting Kit, Includes Bracket & Three (3) 12" Zinc-Plated Anchor Bolts ECBOLAN15 Mounting Kit, Includes Bracket & Three (3) 15" Zinc-Plated Anchor Bolts ECBREBASE* Bollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Fits all Eco-Revolution Bollards. Die Cast with Powdercoat Finish, Hardware Included. 1 1/2" Dia. x 1 1/2" H *Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)	ECP17122 Remote Programming Tool for ECP17121  ECP17122	ECP17121 Internal Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See ECP17121 Spec. Page for Details. ECBOLPC Replacement Round UV-Stabilized Polycarbonate Vandal-Resistant Lens ECBOLPCLL Replacement SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens ECBORBASE* Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating. ECBOADP1 Adapter Plate with Gaskets for Outlet Boxes. Fits Eco-Revolution Round Bollards. Die Cast with Bronze Powdercoat Finish. *Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)



ECBOLAN ECBREBASE*

*Shown Mounted



ECP17121 ECBOLPC, ECBORBASE ECBOADP1

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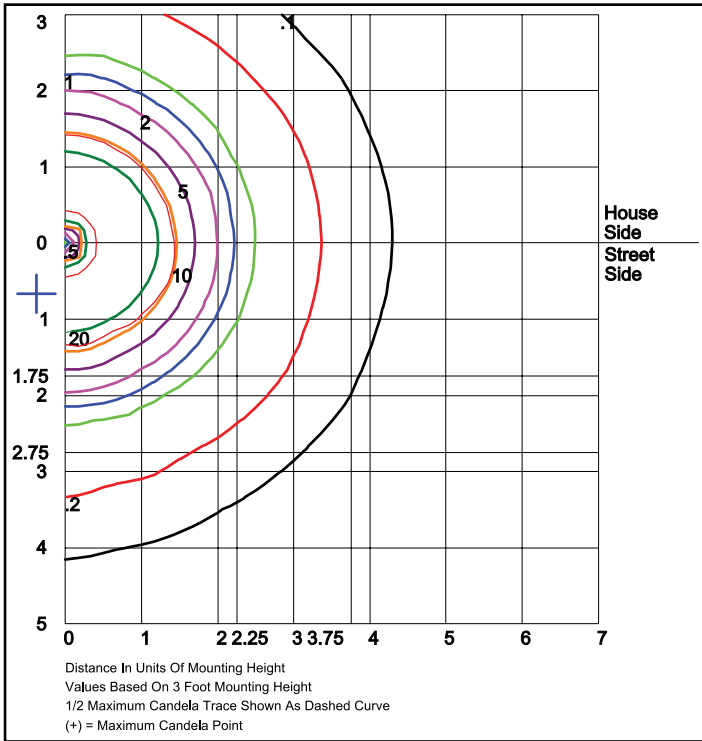
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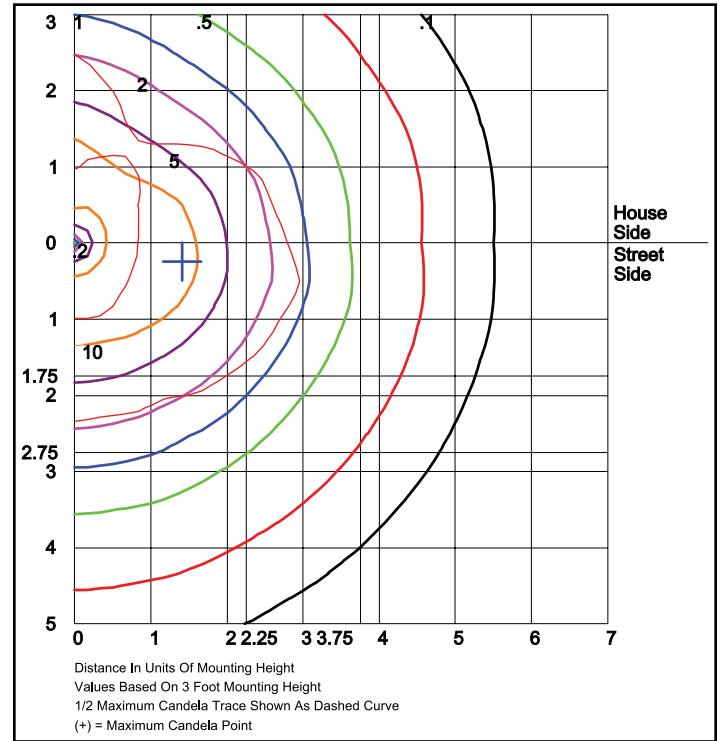
Photometric Data



ECBORWQF1X22U5K & ECBORLQF1X22U5K

Type V

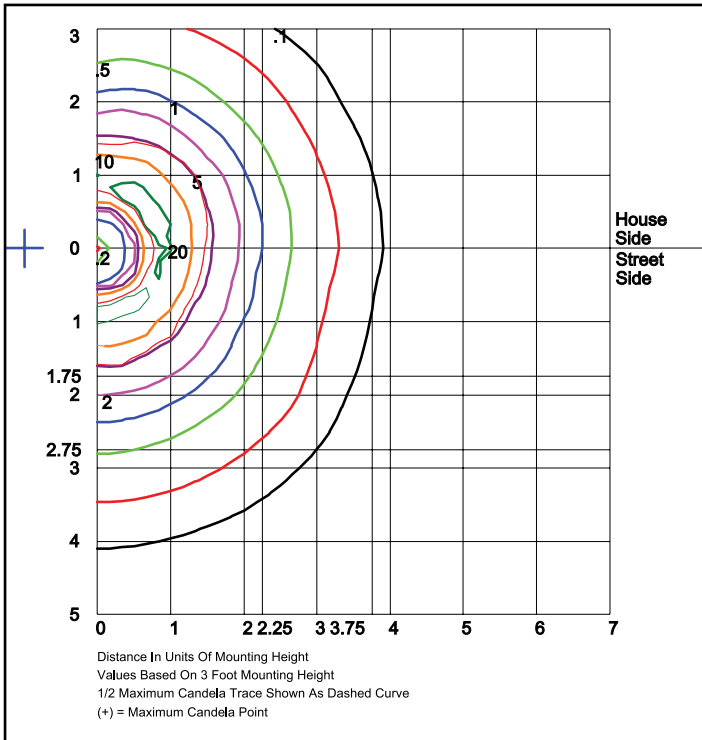
Grid in feet, Mounting Height = 3 ft.



ECBOGQC1X22U5K

Type III

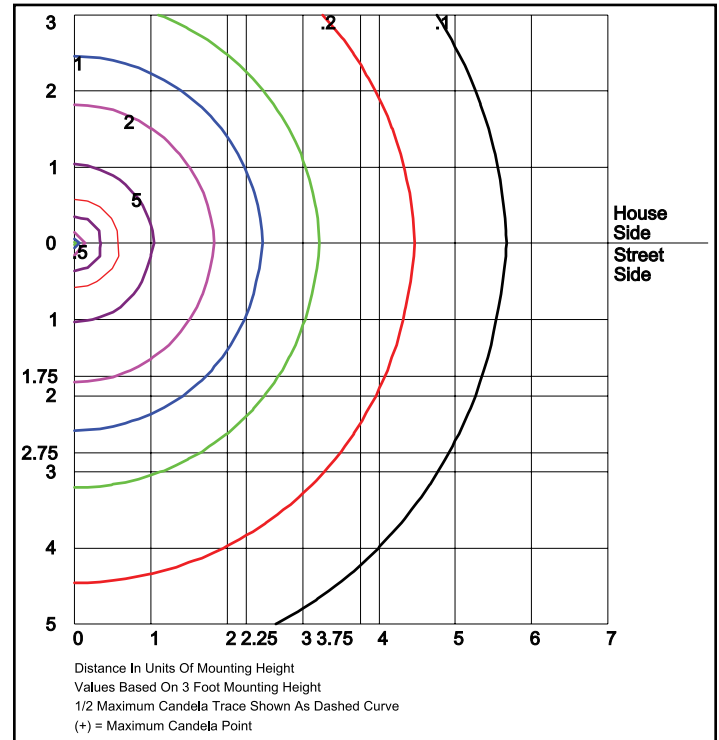
Grid in feet, Mounting Height = 3 ft.



ECBOLQF1X22U5K

Type V

Grid in feet, Mounting Height = 3 ft.



ECBORWQF1X22U5KL, LumaLens

Type V

Grid in feet, Mounting Height = 3 ft.

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Photometric Performance

Optic	CCT	Delivered Lumens		
		10W (1X22)	15W (1X15)	20W (1X22)
Wattage (Catalog Logic)		10W (1X22)	15W (1X15)	20W (1X22)
Input Watts		11.3W	15.9W	23.8W
ECBORWQ & ECBORLQ Cone Reflector C=Type III Optic	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
ECBORWQ & ECBORLQ Cone Reflector F=Type V Optic	3000K	1,031	1,444	2,165
	4000K	1,119	1,566	2,349
	5000K	1,165	1,631	2,447
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
ECBOGQ Glass C=Type III Optic	3000K	789	1,105	1,657
	4000K	856	1,199	1,798
	5000K	892	1,249	1,873
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
ECBOGQ Glass F=Type V Optic	3000K	773	1,082	1,622
	4000K	838	1,173	1,760
	5000K	873	1,222	1,833
	BUG Rating	B1-U3-G1	B1-U3-G1	B1-U3-G1
ECBOLQ Louvers F=Type V Optic Only	3000K	521	730	1,094
	4000K	565	791	1,187
	5000K	589	824	1,236
	BUG Rating	B0-U2-G0	B1-U2-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 116mA 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.