

LED LPS Replacement Stainless Steel Bollards

LED LOW PRESSURE
SODIUM REPLACEMENT



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REVOLUTION WWW.ECO-REVOLUTION.COM
A QSSI COMPANY SINCE 1985

L70
(25°C) **147,000 Hours**



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



**Louvers
ECBOLQ**



**LED Cone Reflector
ECBORLQ**



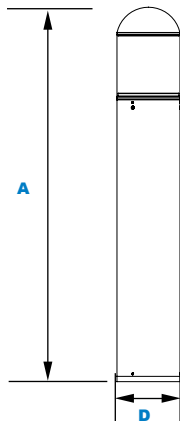
**SoftLED LumaLens
Opal Array Lens**



**Shown with "S3"
Sensor**



Shown with GFCI



Dimensions

Diameter (D) 7" (178mm)
Height (A) 41 1/4" (1,060mm)

The Eco-Revolution **LPS Replacement PC Amber LED** Bollards are designed to provide a direct 1-to-1 replacement for 35w Low Pressure Sodium (LPS) lighting systems. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

Housing:

Formed 316L Stainless Steel Housing with Flush Mounting Base & Vandal-Resistant Screws, Domed Top, Internal Ballast Tray for Easy Maintenance.

Listing & Ratings:

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

Style:

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.

LED Array:

Aluminum Boards. Delivers 1800K CCT and can be successfully applied on projects requiring a nominal CCT range of 1700K to 2200K CCT. See Page 2 for Spectral Chart.

Wattage:

Array: 15w, System: 16.5w; (35w SOX LPS Replacement)

Driver:

Electronic Driver, 120-277V, 50/60Hz; 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.

Specifications and Features:

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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Order Information Example:

ECBORLQF1X15UHASSSF

Model	F	1X15	U	HA	Lens	SS	Options
ECBORWQ =LPS Replacement PC Amber Round Dome Bollard with Soft Shine Low Glare White Cone Reflector ECBORLQ =LPS Replacement PC Amber Round Dome Bollard with LED Cone Reflector ECBOLQ =LPS Replacement PC Amber Round Dome Bollard with Louvers	F =Wide Beam Spread	1X15 =15w	U =120-277V	HA =LPS Replacement PC Amber	(Leave Blank) =Clear Lens L =SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* *White Cone Reflector Only	SS =Stainless Steel	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)	
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. 11½" Dia. x 1½" H

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

Accessories (Order Separately, Field Installed)	
ECP17122	Remote Programming Tool for ECP17121

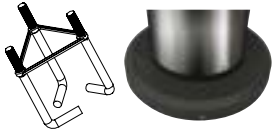


ECP17122

Replacement Parts (Order Separately, Field Installed)	
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.

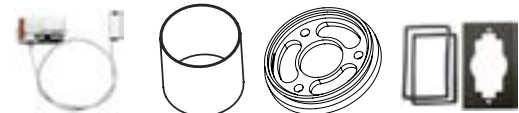
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)

For Replacement Battery Backup, see the Eco-Revolution LED Battery Backup Specification Sheet.



ECBOLAN ECBREBASE*

*Shown Mounted



ECP17121 ECBOLPC, ECBOLPCLL ECBORBASE ECBOADP1

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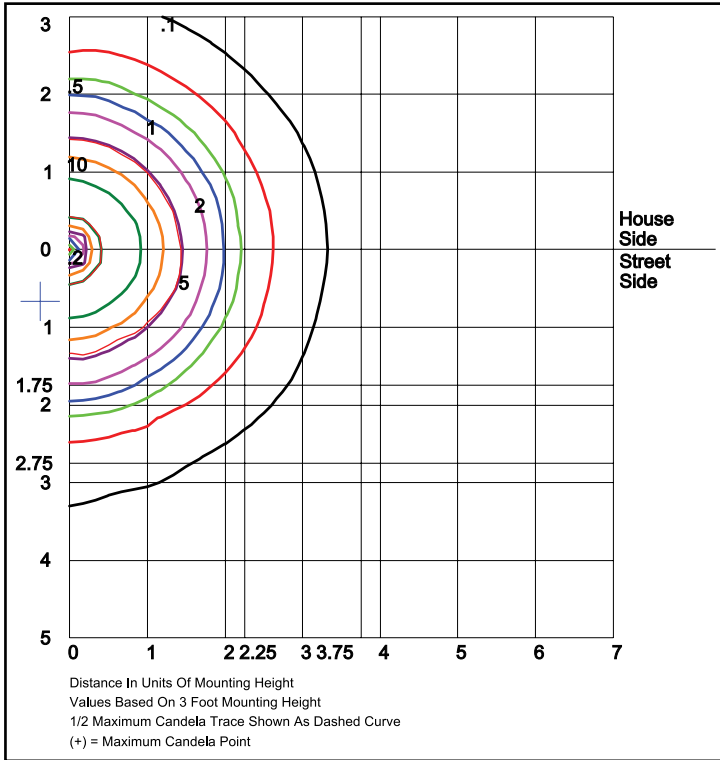
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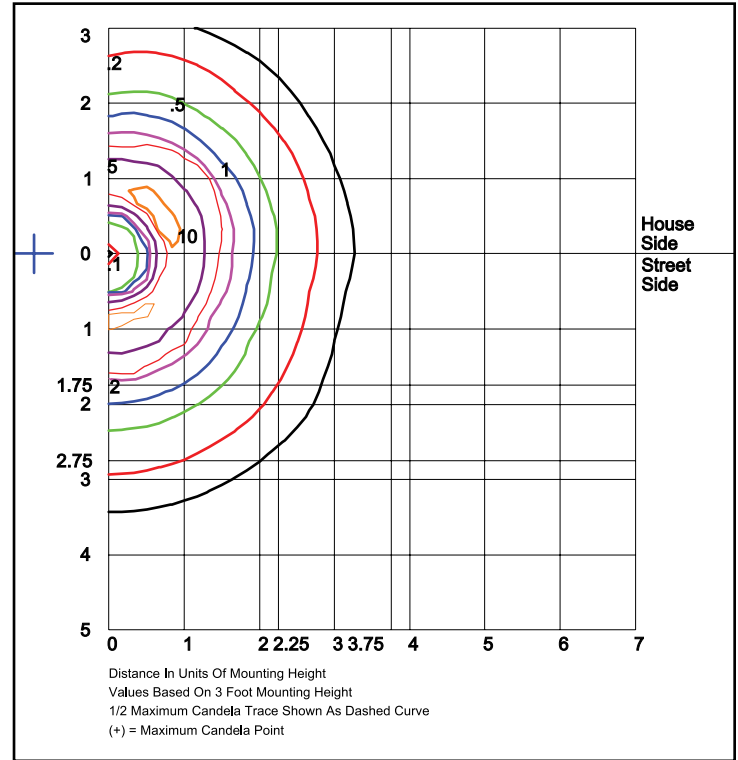
Photometric Data



ECBORLQF1X15UHA & ECBORWQF1X5UHA

Type V

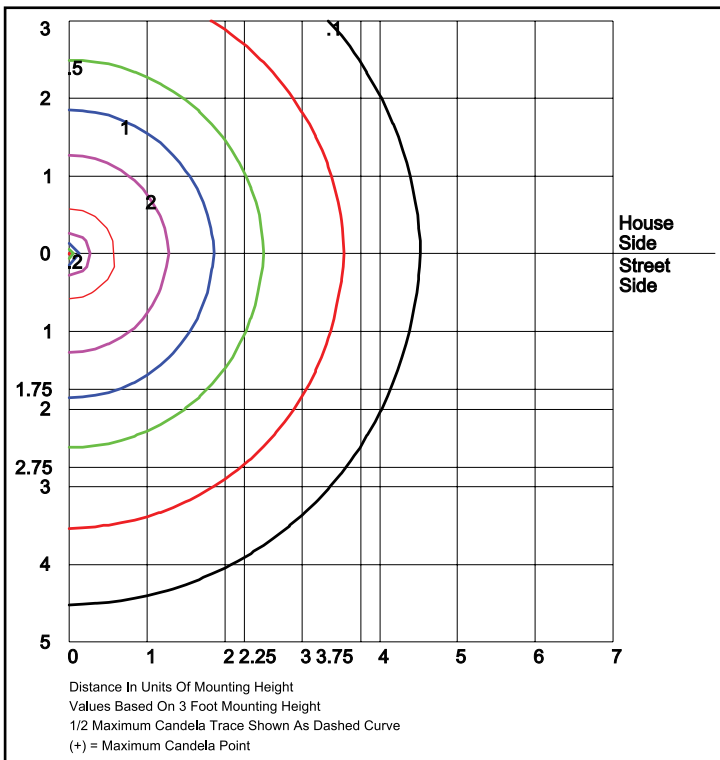
Grid in feet, Mounting Height = 3 ft.



ECBOLQF1X15UHA

Type V

Grid in feet, Mounting Height = 3 ft.



ECBORWQF1X15UHAL, LumaLens

Type V

Grid in feet, Mounting Height = 3 ft.

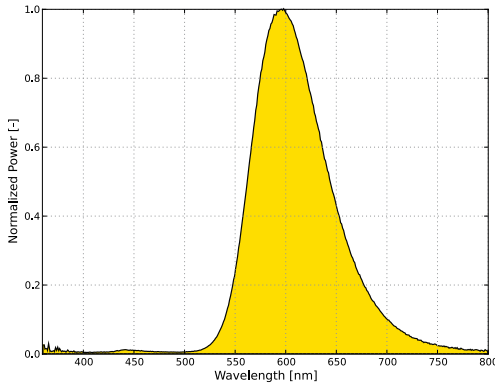
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Spectral Chart



LPS Replacement PC Amber LEDs provide the same visual light output as traditional Low Pressure Sodium systems, but provide substantially reduced energy and maintenance costs, and increased lifespan and lumen maintenance values.

LED LPS Replacement PC Amber: Dominant Wavelength 588.8-592.6
Low Pressure Sodium Wavelength: 589 and 589.6

Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	LED LPS Replacement				
				Lumens	LPW	B	U	G
LPS Replacement 15w	116	17	Cone Reflectors	1,178	69	1	3	1
			ECBOL Louvers	595	35	0	2	0

Projected Lumen Maintenance

Data shown for LED LPS Replacement PC Amber TM-21-11	Input Watts	Compare to LPS				
		Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	17	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 LPS box indicates suggested Light Loss Factor (LLF) to be used when comparing to Low Pressure Sodium (LPS) systems.