

AmberLED Round Flat Top Bollards AmberLED



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L70
(25°C) **147,000 Hours**



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



IES Type III & V Glass
ECBOFG3Q &
ECBOFG5Q



Louvers
ECBOFLQ



LED Cone Reflector
ECBOFRLQ



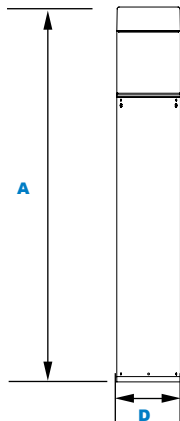
SoftLED LumaLens
Opal Array Lens



Shown with
"S3" Sensor



Shown with
GFCI



Dimensions

| | |
|---------------------|-------------------|
| Diameter (D) | 7" (178mm) |
| Height (A) | 41 1/2" (1,057mm) |

The Eco-Revolution AmberLED Bollards are designed to replace HID lighting systems up to 70w MH or HPS for wildlife or security applications requiring monochromatic AMBER light. LEDs operate between 585 and 595nm, greater than 560nm required for wildlife protection. 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: | 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: | IES Type III or V 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. |
| AmberLED: | Aluminum Boards |
| Wattage: | Array: 14.5w, System: 17w |
| 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. |

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: | | ECBOFRLQF1X15UAMZ36SF | | | | | | |
|--|--------------------|-----------------------|------------|----------|---|---|---|--|
| Model | Optics | Wattage | Driver | CCT | Lens | Color | Height | Options |
| ECBOFRWQ =Round Flat Bollard with Soft Shine Low Glare White Cone Reflector ECBOFRLQ =Round Flat Bollard with LED Cone Reflector ECBOFG3Q =Round Flat Bollard with IES Type III Glass ECBOFG5Q =Round Flat Bollard with IES Type V Glass ECBOFLQ =Round Flat Bollard with Louvers | F=Wide Beam Spread | 1X15=15w | U=120-277V | AM=Amber | (Leave Blank)=Clear Lens L=SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* *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* |

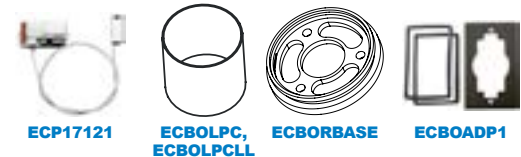
Accessories & Replacement Parts:

| 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. 11½" Dia. x 1½" H | ECP17122 Remote Programming Tool for ECP17121  | 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) | | |
| *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



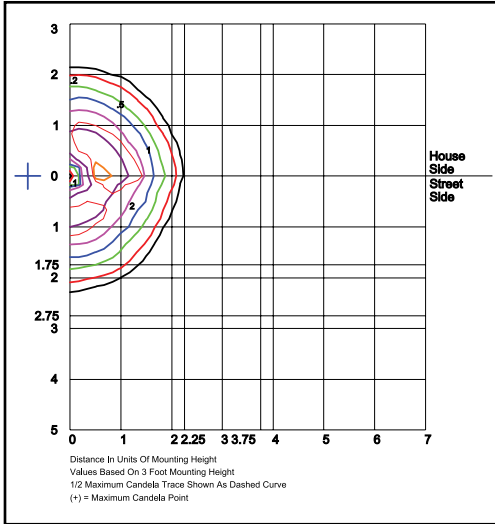
ECP17121 ECBOLPC, ECBORBASE ECBOADP1

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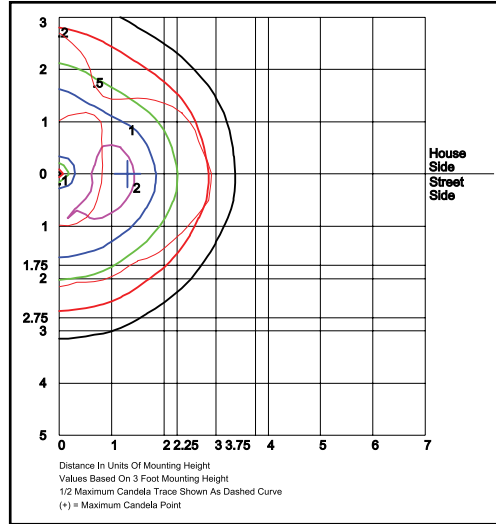
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Photometric Data



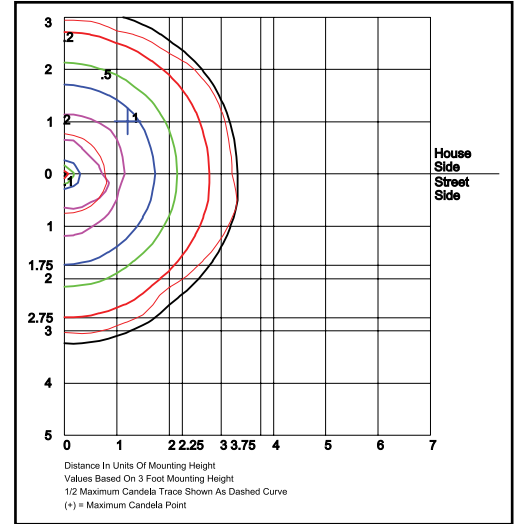
ECBOFRWQF1X15UAM & ECBOFRLQF1X15UAM
Type V

Grid in feet, Mounting Height = 3 ft.



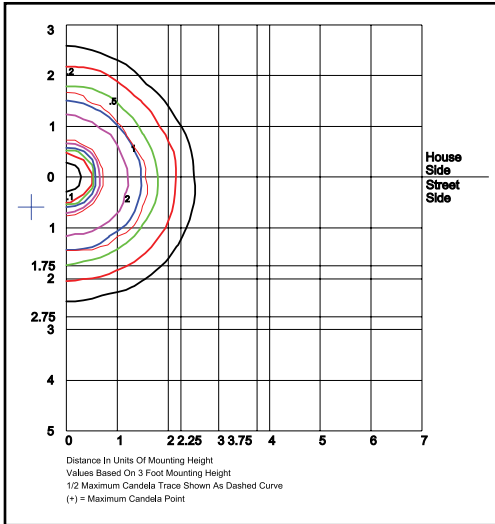
ECBOFG3QF1X15UAM
Type V

Grid in feet, Mounting Height = 3 ft.



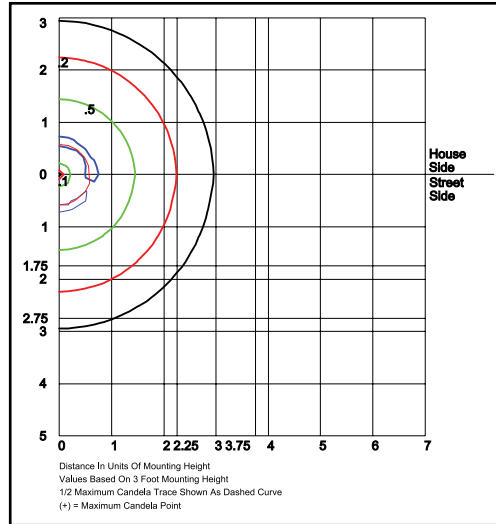
ECBOFG5QF1X15UAM
Type V

Grid in feet, Mounting Height = 3 ft.



ECBOFLQF1X15UAM
Type V

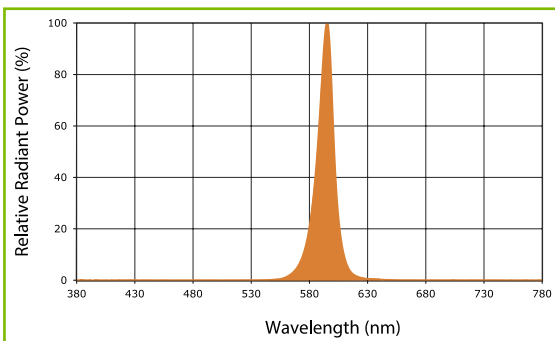
Grid in feet, Mounting Height = 3 ft.



ECBOFRWQF1X15UAML, LumaLens
Type V

Grid in feet, Mounting Height = 3 ft.

Spectral Chart



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Photometric Performance

| LED Board Watts | Drive Current (mA) | Input Watts | Optics | Amber LEDs | | | | |
|-----------------|--------------------|-------------|------------------------|------------|-----|---|---|---|
| | | | | Lumens | LPW | B | U | G |
| AmberLED 15w | 116 | 17 | Cone Reflectors | 360 | 21 | 0 | 2 | 0 |
| | | | ECBOFG3 Type III Glass | 277 | 16 | 0 | 2 | 0 |
| | | | ECBOFG5 Type V Glass | 270 | 16 | 0 | 2 | 0 |
| | | | ECBOFL Louvers | 187 | 11 | 0 | 1 | 0 |

Projected Lumen Maintenance

| Data shown for Amber LEDs | | 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 | 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 MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.