

ThermaLED Round Flat Top Bollards

ThermaLED Technology



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Order Information Example:			ECBOFRLQF1X15U5KZ36SF				
Model	Optics	Wattage	Driver	CCT	Color	Height	Options
		1X15					
ECBOFG3Q =Round Flat Bollard with IES Type III Glass ECBOFG5Q =Round Flat Bollard with IES Type V Glass ECBOFRLQ =Round Flat Bollard with LED Cone Reflector ECBOFLQ =Round Flat Bollard with Louvers	C =Type III* F =Wide Beam Spread *ECBOFRLQ Only	1X15=15w	U =120-277V C =347V	3K =3000K 4K =4000K 5K =5000K	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 BU =Battery Backup, 90 Minutes

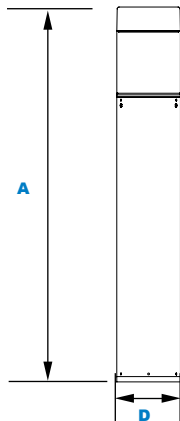


L70
(25°C) **147,000 Hours**

The Eco-Revolution ThermaLED 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:	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 Aluminum Cone Reflector or Internal Louvers
Lens:	Clear Polycarbonate Vandal-Resistant Lens
Mounting Options:	Mounting Kit with 8" Anchor Bolts, Included.
ThermaLED LED:	Aluminum Boards
Wattage:	Array: 14.5w, System: 17w (70w HID Equivalent)
Driver:	Electronic Driver, 120-277V, 50/60Hz; 347V, 50/60Hz; Dimmable Driver
Warranty:	5-Year Warranty for -40°C to +40°C Environment.



Dimensions

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

See Page 2 for Projected Lumen Maintenance Table

Certification & Listings:



Project Information:

Project Name: _____ Fixture Type: _____

Complete Catalog #: _____ Date: _____

Comments: _____

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

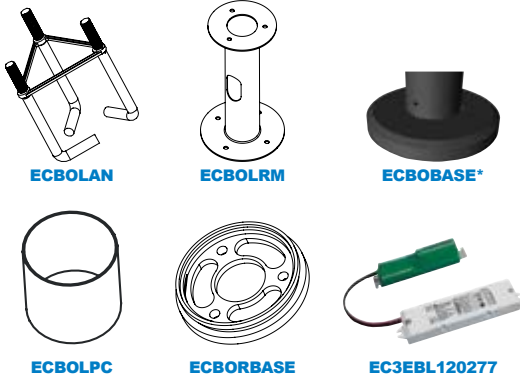
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Accessories & Replacement Parts:

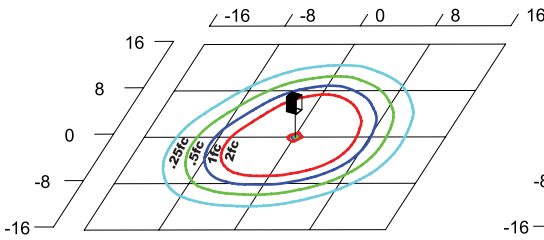


*Shown Mounted

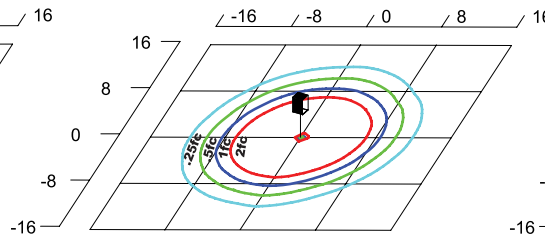
Mounting Accessories (Order separately, Field installed)		Replacement Parts (Order separately, Field installed)	
ECBOLAN4	Mounting Kit, Includes Bracket & Three (3) 4" Anchor Bolts	ECBOLPC	Replacement Round Polycarbonate Vandal-Resistant Lens
ECBOLAN8	Mounting Kit, Includes Bracket & Three (3) 8" Anchor Bolts	ECBORBASE*	Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating.
ECBOLAN12	Mounting Kit, Includes Bracket & Three (3) 12" Anchor Bolts	EC3EBL120277	Battery Backup, Provides 90 Minutes of Backup Power.
ECBOLAN15	Mounting Kit, Includes Bracket & Three (3) 15" Anchor Bolts	*Specify Color: Z=Bronze, B=Black	
ECBOLRM	Root Mount Kit		
ECBORBASE*	Retrofit Base Adapts New Bollards to Most Existing Bolt Patterns. Fits all Eco-Revolution Bollards. Die Cast with Powdercoat Finish, Hardware Included. 11 1/2" Dia. x 1 1/2" H		

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

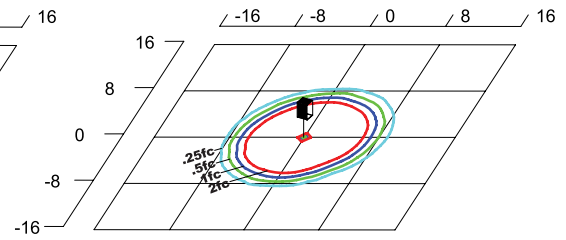
Photometric Data



ECBOFG3QF1X15U5K Type V
Grid in feet, Mounting Height = 3.5 ft.



ECBOFG5QF1X15U5K Type V
Grid in feet, Mounting Height = 3.5 ft.



ECBORLQF1X15U5K Type V
Grid in feet, Mounting Height = 3.5 ft.

Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
ThermaLED 15w	116	17	ECBOG3 Type III Glass	1,152	68	1	3	1	1,106	65	1	3	1	1,023	60	1	3	1
			ECBOG5 Type V Glass	1,125	66	1	3	1	1,080	64	1	3	1	905	53	1	3	1
			ECBOL Round Louvers	778	46	1	2	1	747	44	1	2	1	689	41	1	2	1
			ECBORL Cone Reflector	1,519	89	1	3	1	1,458	86	1	3	1	1,225	72	1	3	1
			ECBORL Type III Optic	1,081	64	0	3	1	989	58	0	2	1	918	54	0	2	1

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 L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	17	1.00	0.95	0.90	0.80	147,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
L70 Lumen Maintenance @ 50°C / 122°F	17	1.00	0.89	0.78	0.55	67,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	17	1.00	0.92	0.85	0.70	66,000

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.