

Round & Square COB Bollards

COB
Technology



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Order Information Example: ECB1C34X5U41KZSF

Model	Wattage	Driver	CCT	Color	Height	Options
ECB1C3=Round COB Bollard ECB2C3=Square COB Bollard	4X5=20w	U=120-277V	41K=4100K	Z=Bronze B=Black C=Custom (Consult Factory)	(Leave Blank)= 34 3/4" Standard Height 30=30" Height	SF=Single Fuse DF=Double Fuse SP=Surge Protection GF1=GFCI Outlet, 15A, 120V



ECB1C3 - Round COB Bollard (Black)



ECB2C3 - Square COB Bollard (Bronze)

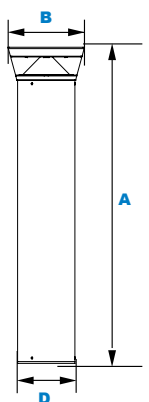
L70
(25°C) **106,000 Hours**

The Eco-Revolution ECB1C3 and ECB2C3 LED Cutoff Bollards with polycarbonate lenses and sealed optical compartments 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 Driver Tray for Easy Maintenance.
Listing & Ratings:	CSA: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.
Finish:	Textured Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.
Reflector:	Reflective White Polycarbonate Cone Reflector
Lens:	Clear Polycarbonate Vandal-Resistant Lens
Mounting Options:	Mounting Kit with 8" Anchor Bolts, Included.
COB LED:	Cool Copper COB
Wattage:	Array: 20w, System: 20w (70w HID Equivalent)
Driver:	Electronic Driver, 120-277V, 50/60Hz; Dimmable Driver
Warranty:	5-Year Warranty for -20°C to +40°C Environment.

See Page 2 for Projected Lumen Maintenance Table



Dimensions	
Width (B)	9 1/4" (234mm)
Diameter (D)	7" (180mm)
Height (A)	34 3/4" (882mm)

Certification & Listings:



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

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

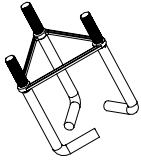
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Accessories & Replacement Parts:



ECBOLAN

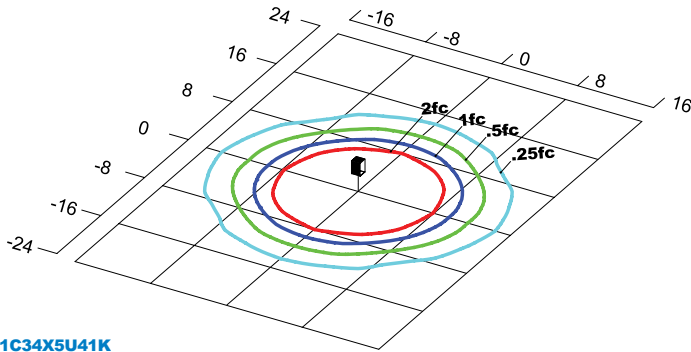


ECBOBASE*

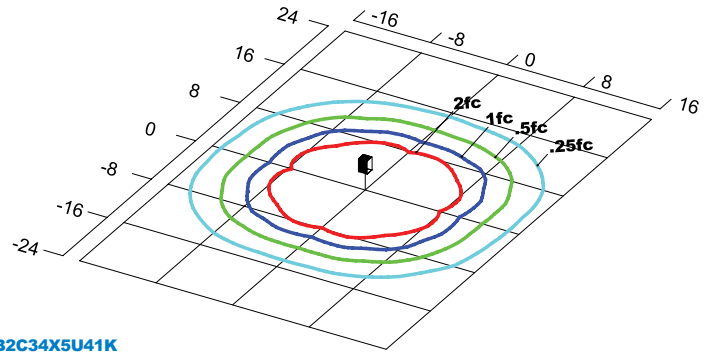
*Shown Mounted

Mounting Accessories (Order separately, Field installed)	
ECBOLAN4	Mounting Kit, Includes Bracket & Three (3) 4" Anchor Bolts
ECBOLAN8	Mounting Kit, Includes Bracket & Three (3) 8" Anchor Bolts
ECBOLAN12	Mounting Kit, Includes Bracket & Three (3) 12" Anchor Bolts
ECBOLAN15	Mounting Kit, Includes Bracket & Three (3) 15" Anchor Bolts
ECBOBASE*	Retrofit Base 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)	

Photometric Data



ECB1C34X5U41K
Grid in feet, Mounting Height = 3.5 ft.



ECB2C34X5U41K
Grid in feet, Mounting Height = 3.5 ft.

Photometric Performance

LED COB Watts	Drive Current (mA)	Input Watts	Bollards	4100 CCT 80 CRI				
				Lumens	LPW	B	U	G
COB LED 20w	350	20	ECB1 (Round COB Bollard)	2,282	87	1	0	1
			ECB2 (Square COB Bollard)	2,409	91	1	0	1

Projected Lumen Maintenance

Data shown for 4100 CCT		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
ECB1 L70 Lumen Maintenance @ 25°C / 77°F	20	1.00	0.93	0.86	0.72	106,000
ECB2 L70 Lumen Maintenance @ 25°C / 77°F	20	1.00	0.93	0.86	0.72	106,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
ECB1 L70 Lumen Maintenance @ 50°C / 122°F	20	1.00	0.91	0.83	0.66	88,000
ECB2 L70 Lumen Maintenance @ 50°C / 122°F	20	1.00	0.91	0.83	0.66	88,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
ECB1 L80 Lumen Maintenance @ 40°C / 104°F	20	1.00	0.92	0.84	0.67	61,000
ECB2 L80 Lumen Maintenance @ 40°C / 104°F	20	1.00	0.92	0.84	0.67	61,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 350mA 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.