

BOLLARDS

LANDSCAPE & PATHWAY LIGHTING



E C O N O M Y

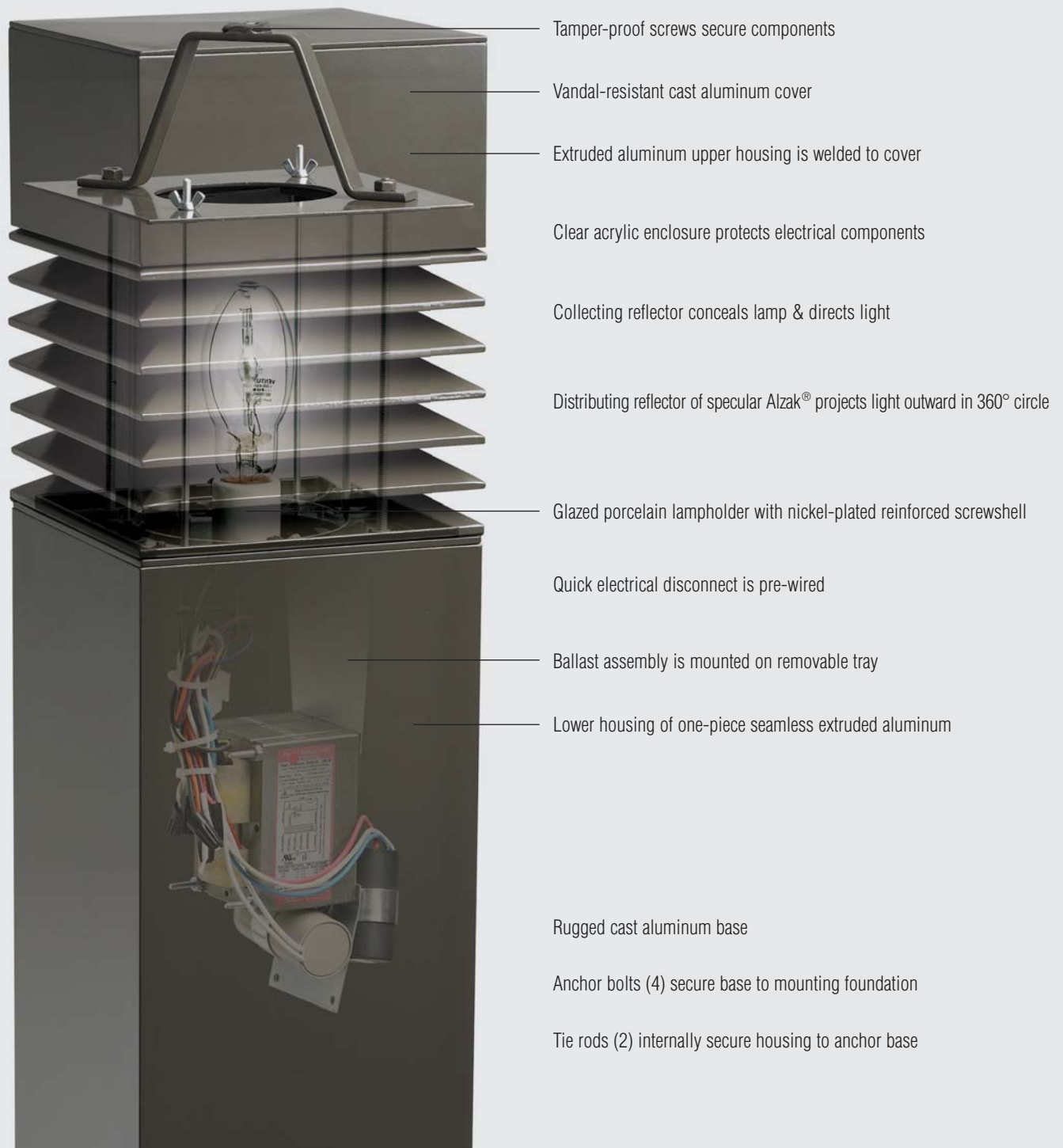


E F F I C I E N C Y

V A L U E



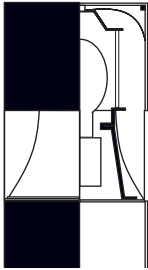


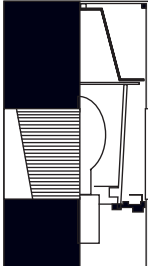


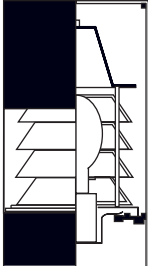


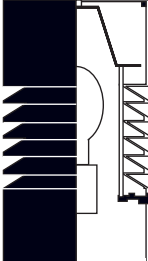
BOLLARDS

In a low-level lighting environment, a luminaire must address not only specific lighting criteria, but also the essential issues of vandalism, durability and ease of maintenance. While EMCO's design philosophy always exhibits an understanding of and solution to these issues, nowhere are the results more apparent than in the line of EMCO Bollards. The rugged, high-performance luminaires include such features as seamless extruded housings, tamper-resistant hardware, and silicone seals and gaskets to assure years of trouble-free operation. Available in square and round geometric forms that blend well into any architectural landscape, EMCO Bollards can be specified with a wide variety of optical systems, ensuring that there's always a perfect fit for your particular project.

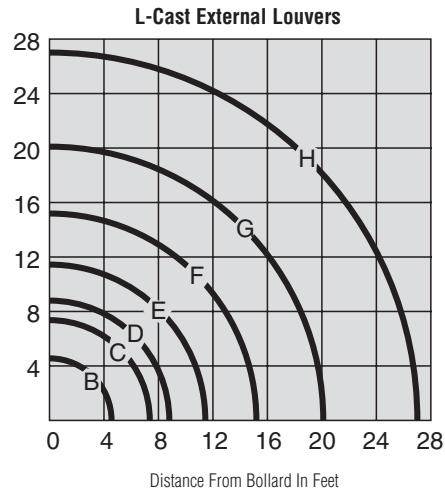
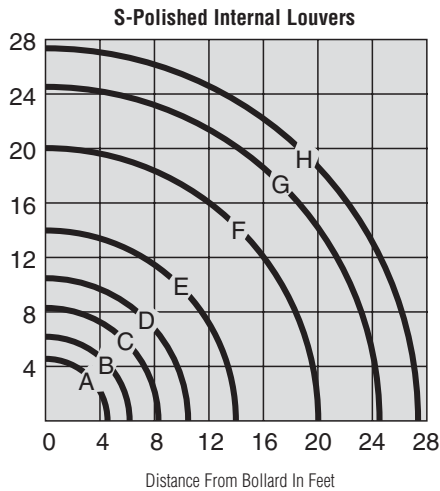
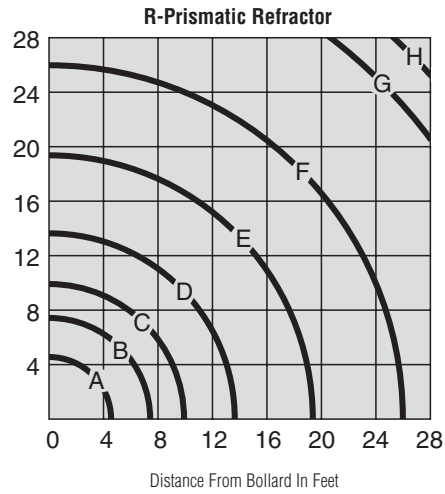
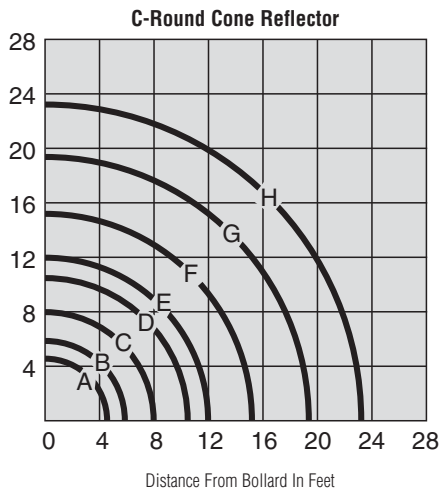


OPTICAL SYSTEMS

EMCO Bollards can be specified with a range of lamps and optical systems to satisfy the aesthetic and optical considerations for any lighting project. The Round Reflector configuration is a rugged and durable luminaire that uses a conical reflector of specular Alzak® to create exceptionally bright light in a 360° distribution, effortlessly illuminating pedestrian areas. Those desiring softer light in a downlight Type V distribution often select the Prismatic Glass Refractor configuration. For projects that require more illumination control at eye level, the Polished Louver and Cast Louver configurations provide distinct aesthetic choices that control glare by concealing the light source and directing light downward. No matter the optical system, all EMCO Bollards accept a range of high pressure sodium and metal halide lamps, and provide wide, uniform spacing to efficiently light any outdoor area.

	Round	Square	Cross Section	
C				The Round Reflector configuration utilizes cone-shaped specular Alzak® to project light outward in a 360° circle. The collecting reflector conceals the light source and directs illumination to the distributing Alzak® reflector. A clear acrylic window seals the unit.
R				The Prismatic Glass Refractor diffuses light and distributes it outward and downward with a Type V distribution. Assembly is protected from the weather and vandals by a clear acrylic shield.
S				Round Polished Aluminum Louvers add a unique design element while hiding the light source and directing light downward in a 360° circular pattern. A clear acrylic shield protects the system.
L				Cast Louvers conceal the light source while directing illumination outward and downward. The rugged louvers are finished to match the rest of the luminaire. A glass cylinder mounted inside protects the lamp.

PHOTOMETRICS



**Initial footcandles for 100W HPS 42" bollard
(center of optics 36" above grade)**

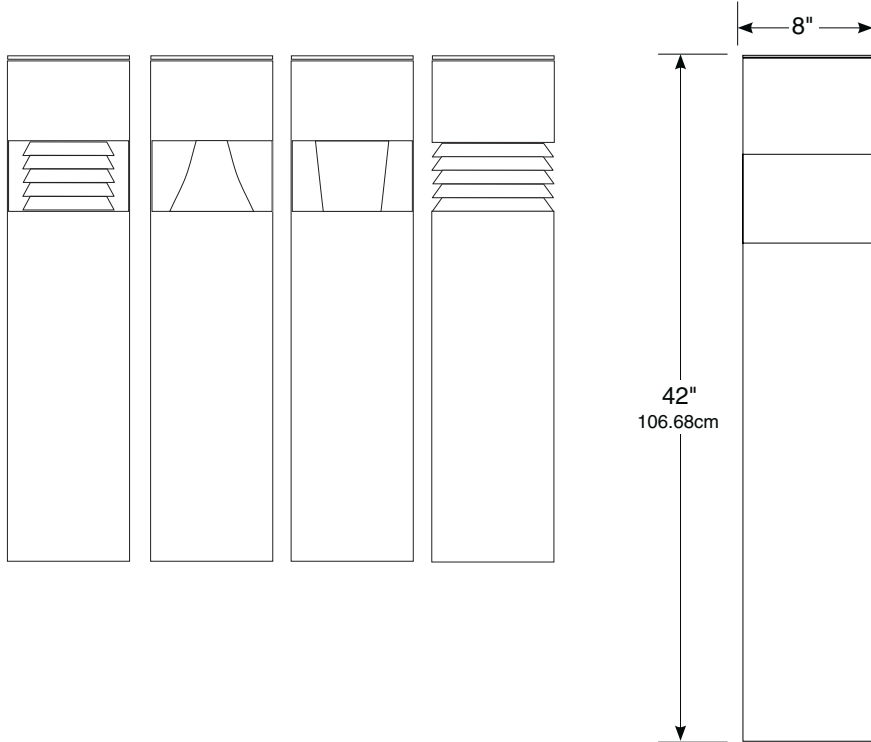
Curve	F.C. Values
A	10.0
B	5.0
C	2.0
D	1.0
E	.50
F	.20
G	.10
H	.05

Lamp Factor Table

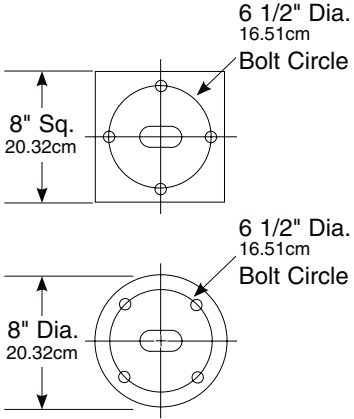
Lamp	Factor
50W HPS	.42
70W HPS	.66
100W HPS	1.00
150W HPS	1.68
50W MH	.36
70W MH	.53
100W MH	.89
150W MH	1.47

For approximate f.c. levels, the factors shown may be multiplied by the 100W HPS value.
Ex: 70W HPS at C curve = .66 x 2.0 = 1.32 f.c.

DIMENSIONS



Note: Factory supplied template must be used when setting anchor bolts. EMCO Lighting will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.



Base Plates



SPECIFICATIONS

UPPER HOUSING:

Extruded aluminum sides are welded to cast aluminum top and secured with single pin-in-head socket tamper-resistant screw.

LOWER HOUSING:

One-piece seamless extruded aluminum stands up to vandals and harsh environments.

LENS:

BR8 – One-piece 1/4" (.64 cm) extruded clear virgin acrylic. BS8 – Four sections of 5/16" (.79 cm) mitered clear virgin acrylic are chemically bonded.

OPTICAL SYSTEMS:

- (C) Cone – Upper collecting and lower distributing Alzak® aluminum reflectors provide efficient distribution of light.
- (R) Refractor – Prismatic borosilicate glass designed to direct light outward and downward.
- (S) Polished Aluminum Louvers – Angled to provide maximum spacings while shielding the light source.
- (L) Cast Louvers – Individually cast aluminum blades are fastened in a unitized assembly.

ANCHORAGE:

Cast aluminum base is secured to mounting foundation with four (4) 3/8" x 9" (.95 cm X 22.86 cm) anchor bolts on a 6 1/2" (16.51 cm) bolt circle. Two (2) threaded 3/8" (.95 cm) tie rods internally secure housing to anchor base.

ELECTRICAL:

Standard medium-base lampholder is glazed porcelain with nickel-plated reinforced screwshell and spring-loaded contact. Ballast and lampholder are pre-wired with quick electrical disconnects and mounted on a one-piece assembly secured internally to lower housing with two (2) captive screws. Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20°F / -29°C. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 150°C / 302°F or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

FINISH:

Each luminaire receives a fade- and abrasion-resistant, electrostatically applied, thermally cured and textured polyester powder finish.

LABELS:

All luminaires bear UL or CUL (where applicable) Wet Location labels.

EMCO reserves the right to change materials or modify the design of its product without notification, as part of the company's continuing product improvement program.

ORDERING

Example	PREFIX	OPTICS	WATTAGE	VOLTAGE	FINISH	OPTIONS
	BS8	C	50HPS	120	BRP	HS-90
	BS8 Square	C Cone Round Reflector	50HPS 70HPS 100HPS 150HPS	120 277	BRP Bronze Paint BLP Black Paint WP White Paint NP Natural Aluminum Paint OC Optional Color Paint <i>Specify RAL designation ex: OC-RAL7024.</i> SC Special Color Paint <i>Specify. Must supply color chip.</i>	HS-90 90° House Side Shield HS-180 180° House Side Shield PCB Button Photocontrol 30 30" High <i>standard height is 42"</i> 36 36" High <i>standard height is 42"</i> F Fusing
	BR8 Round	S Polished Louvers L Cast Louvers	50MH 70MH 100MH 150MH ¹			

MH Metal Halide
HPS High Pressure Sodium

1. 150MH is pulse start by design.
Luminaire is EISA compliant by exception.

Prior to ordering, consult Submittal Data Sheet on sitelighting.com for the most current information, notes and exclusions.

Visit sitelighting.com to find the most current photometric file.

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PHILIPS

