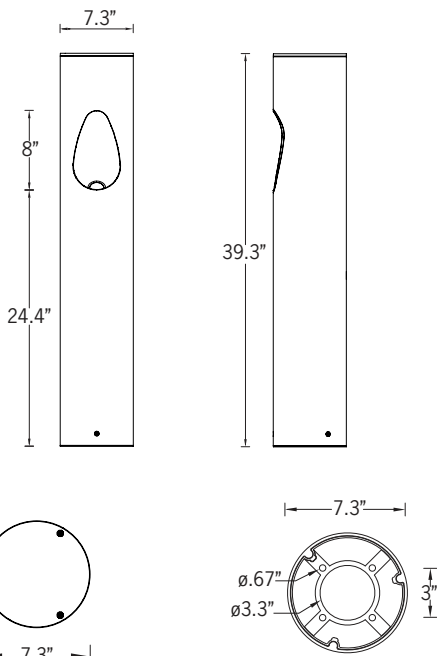


UFRE-10031

Freetown 4 Bollard



12w LED 682 Lumens
 IP65 · Suitable For Wet Locations
 IK08 · Impact Resistant (Vandal Resistant)
 Weight 19 lbs



Top View

Mounting Detail

Construction

Aluminum
 Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
 8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
 Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
 LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
 Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
 B0 - U4 - G0

Finishing
 All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
 UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

MicroPRIM Finishes
 MicroPRIM is Ligman's trade marked decorative powder coating technology that permanently infuses colors, patterns, or imagery directly into the surface of luminaires and poles while providing protections that standard powder coating does not offer.

MicroPRIM finishes include nature-inspired wood grains and stone aesthetics, material-inspired finishes such as brushed metal, concrete, and carbon fiber, Solid colors in Ligman standard colors, as well as any RAL or Pantone color, Decorative patterns, custom imagery and more.

Coating and Infusion Process

Metal components are pre-treated and powder coated with a proprietary polyurethane-based coating engineered for outdoor architectural use. Decorative patterns or imagery are then permanently infused into the cured powder coat through a heat-based process, creating a durable, integrated finish.

Performance and Validation

MicroPRIM finishes are suitable for indoor and outdoor applications and meet AAMA2605 architectural coating requirements. Performance is validated through laboratory and real-world testing to ASTM standards for UV exposure, adhesion, abrasion, impact, salt spray, chemical resistance, and graffiti resistance.

All MicroPRIM finishes are backed by Ligman's 10-year warranty.

- Key Performance Attributes**
- Anti-graffiti resistance
 - UV and weather resistance
 - Scratch and abrasion resistance
 - Natatorium Rated for installation in corrosive environments)

Hardware
 Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
 Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
 Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
 Precise optic design provides exceptional light control and precise distribution of light.
 LED CRI > 80

Lumen - Maintenance Life
 L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Freetown bollard: - versatile range of modern urban lighting furniture for pathway and building accent lighting

These contemporary bollards are available in a variety of standard and custom finishes, with flexible light distribution options suitable for both pathway illumination and subtle façade highlighting. This versatility makes them an excellent choice for integrated architectural designs.

The Freetown Bollard includes a **waterproof internal driver housing compartment** as a standard feature. The fixture is supplied **fully pre-wired**, with a power cord and waterproof gland running from the driver enclosure to the base of the bollard to ensure quick, trouble-free installation. **Custom bollard heights** are available upon request.

Available color temperatures include **2700K, 3000K, 3500K, and 4000K**. Custom wattages can be specified to meet both project requirements and **Title 24** compliance. (Please specify total watts per fixture.)

All Ligman fixtures may be manufactured using a special **pre-treatment and coating process** that allows installation in natatoriums or environments with high concentrations of chlorine or salt—while still maintaining **Ligman's 10-year warranty**.

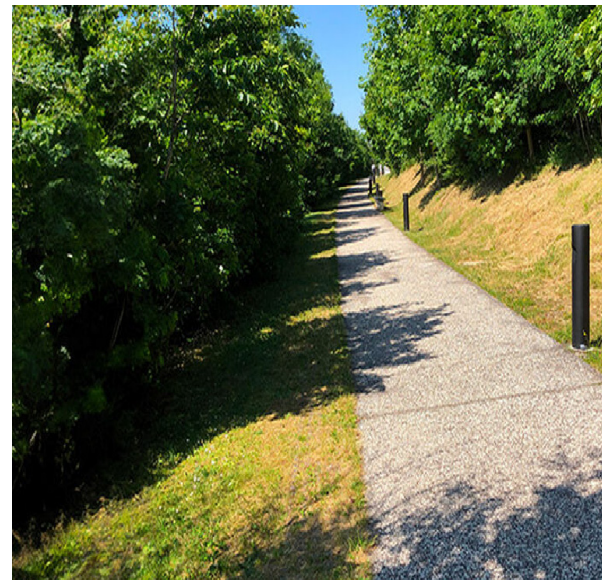
To specify this natatorium-rated finish, include **NAT** in the options.

This product also features an **integrated 12W recessed accent light**, providing low-glare pathway illumination and additional backlighting to accent landscape elements, foliage, or architectural features.

Additional Options (Consult Factory For Pricing)



A91591
 Lockable In Use GFCI
 Receptacle Outlet Box



PROJECT		DATE	
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QUANTITY		TYPE		NOTE	
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ORDERING EXAMPLE || UFRE - 10031 - 2x12w - W30 - 02 - 120/277v - Options

UFRE-10031				
LAMP	12w LED 682 Lumens	LED COLOR	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	FINISH COLOR
				VOLTAGE
				120/277v

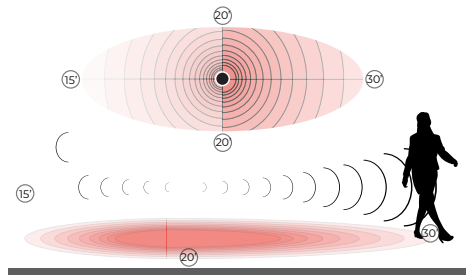
- 01 - BLACK RAL 9011
- 02 - DARK GREY RAL 7043
- 03 - WHITE RAL 9003
- 04 - METALLIC SILVER RAL 9006
- 05 - MATTE SILVER RAL 9006
- 06 - LIGMAN BRONZE
- 07 - CUSTOM RAL



ADDITIONAL OPTIONS		

- NAT - Natatorium Rated
- DIM - 0-10v Dimming
- GFCI - GFCI Box
- OCC1 - Single Side Occupancy Sensor
- A91591 - Lockable In Use GFCI Receptacle Outlet Box
- HGT - Custom Bollard Height [Specify HGT=XX"]

OCCUPANCY SENSOR OPTION



OCC1
SINGLE OCCUPANCY SENSOR DETECTION RANGE
[UNIVERSAL LEFT OR RIGHT DETECTION]

* The integrated, smart occupancy sensor can be programmed on site to function in a variety of ways.
Example: Simple on-off mode || DIM -> full light output on detection -> DIM | Off -> full bright on detection -> DIM for a set time with no detection -> off | DIM -> full bright on detection -> DIM

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

MicroPRIM FINISHES

- SW01 - OAK FINISH
- SW02 - WALNUT FINISH
- SW03- PINE FINISH
- DF - DOUGLAS FIR FINISH
- CW - CHERRY WOOD FINISH
- NW - NATIONAL WALNUT FINISH
- SU01 - CONCRETE FINISH
- SU02 - SOFTSCAPE FINISH
- SU03 - STONE FINISH
- SU04 - CORTEN FINISH
- CSM - Custom Image/Pattern

MicroPRIM FINISHES

- MP - MAPLE FINISH
- MHG - MAHOGANY FINISH
- BH - BEECH FINISH
- CN - CHESTNUT FINISH
- WMBL - WHITE MARBLE FINISH
- MBL - MARBLE FINISH
- GRNT - GRANITE FINISH
- BGD - BRUSHED GOLD FINISH
- BBRZ - BRUSHED BRONZE FINISH
- CAMO - CAMOUFLAGE FINISH

- MP01 - MicroPRIM RAL 9011 Black (Glossy)
- MP02 - MicroPRIM RAL 7043 Dark Grey (Glossy)
- MP03 - MicroPRIM RAL 9003 White (Glossy)
- MP04 - MicroPRIM RAL 9006 Metallic Silver (Glossy)
- MP05 - MicroPRIM RAL 9006 Matte Silver (Matte/Textured)
- MP06 - MicroPRIM Ligman Bronze (Glossy)
- MP07 - MicroPRIM Custom Color (Glossy)



Example: MicroPRIM Finish

