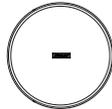
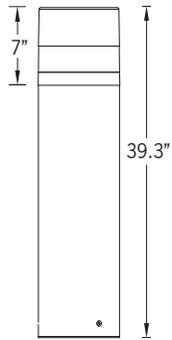


# ULH-10665

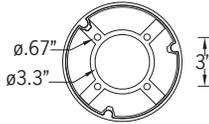
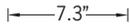
## Lightsoft 1 Bollard



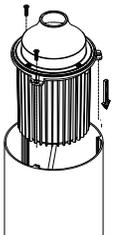
27w LED 1188 Lumens  
 IP65 · Suitable For Wet Locations  
 IK08 · Impact Resistant (Vandal Resistant)  
 Weight 17 lbs



Top View

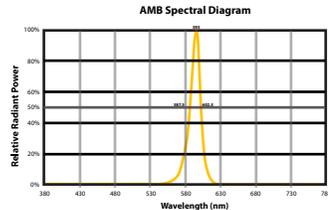


Mounting Detail



IP65 - Internal top access driver housing, prewired with SO cord and waterproof cable gland for easy installation.

### CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT



**Narrow-Spectrum Amber LEDs**  
 Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

### 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**  
 B1 - U3 - G1

**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)

### Indirect light-emitting bollard range. Smooth and sharp devised bollard family with wonderful soft controlled lighting options.

The innovative reflector technology of the Lightsoft bollard guarantees a high degree of efficiency and optimal visual comfort. Lightsoft has been developed to have excellent controlled downward light providing wide spacing ratios. It has three light shield accessories with different light distributions. The Lightsoft is available in a cylindrical or square shape design with two different heights. The Lightsoft Bollard comes standard with a unique waterproof internal driver housing compartment that is situated at the top of the pole to stop water and dust from entering the electrical components. This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the bollard ensuring quick trouble-free installation. Custom bollard heights are available, please specify. Color temperature 2700K, 3000K, 3500K and 4000K. Custom wattages can be provided to suit customer and Title 24 requirements. (Specify total watts per fixture)

All Ligman fixtures can be manufactured using a special pre-treatment and coating process that ensures the fixture can be installed in natatoriums as well as environments with high concentrations of chlorine or salt and still maintain Ligman's 10-year warranty. For this natatorium rated process please specify NAT in options.

**Security Bollard:**  
 This product can be modified with optional Security Bollard cores. Ligman has **two** security bollard options designed to deter unauthorized vehicular access in restricted areas. Ligman' **Standard Security Bollards [SB]** are structurally engineered and simulated to meet the performance criteria of a typical traffic-rated bollard system, which corresponds to a 5,000 lb vehicle impact up to 30mph with less than 4ft of penetration. Ligman **Reinforced Security Bollards [RSB]** are structurally engineered for impact resistance and simulated to meet the performance criteria of ASTM F2656 M30 P1 (formerly known as K4), which corresponds to a 15,000 lb vehicle impact up to 30mph with less than 3.3 ft of penetration. These bollards are not certified as crash-rated. Please refer to the product installation sheet for additional requirements and installation guidelines

NOTE: This product is available with integrated occupancy sensor detection, please see page 2 for more information.

### Additional Options (Consult Factory For Pricing)

SB Security Bollard

RSB Reinforced Security Bollard

A91591 Lockable In Use GFCI Receptacle Outlet Box

A10831 90° Light Shield

A10731 180° Light Shield

Occupancy Sensor

|         |  |      |  |
|---------|--|------|--|
| PROJECT |  | DATE |  |
|---------|--|------|--|

|          |  |      |  |      |  |
|----------|--|------|--|------|--|
| QUANTITY |  | TYPE |  | NOTE |  |
|----------|--|------|--|------|--|

ORDERING EXAMPLE || ULH - 10665 - 27w - W30 - 02 - 120/277v - Options

|                               |                        |           |  |              |   |                     |  |                         |  |                     |  |                               |  |                            |  |                    |  |                 |  |
|-------------------------------|------------------------|-----------|--|--------------|---|---------------------|--|-------------------------|--|---------------------|--|-------------------------------|--|----------------------------|--|--------------------|--|-----------------|--|
| ULH-10665                     |                        |           |  |              |   |                     |  |                         |  |                     |  |                               |  |                            |  |                    |  |                 |  |
| LAMP                          | 27w LED<br>1188 Lumens | LED COLOR | W27 - 2700K<br>W30 - 3000K<br>W35 - 3500K<br>W40 - 4000K<br>AMB - <span style="color: orange;">TURTLE FRIENDLY</span><br>Amber LED | FINISH COLOR | <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 100%;">01 - BLACK RAL 9011</td><td style="width: 20px;"></td></tr> <tr><td>02 - DARK GREY RAL 7043</td><td></td></tr> <tr><td>03 - WHITE RAL 9003</td><td></td></tr> <tr><td>04 - METALLIC SILVER RAL 9006</td><td></td></tr> <tr><td>05 - MATTE SILVER RAL 9006</td><td></td></tr> <tr><td>06 - LIGMAN BRONZE</td><td></td></tr> <tr><td>07 - CUSTOM RAL</td><td></td></tr> </table> | 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 |  |
| 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               |                        |           |  |              |   |                     |  |                         |  |                     |  |                               |  |                            |  |                    |  |                 |  |
| VOLTAGE                       | 120/277v               |           |  |              |   |                     |  |                         |  |                     |  |                               |  |                            |  |                    |  |                 |  |

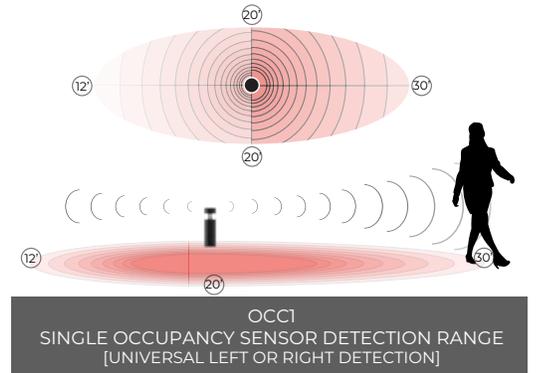
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|--------------------|--|--|
|                    |  |  |
|                    |  |  |
| ADDITIONAL OPTIONS |  |  |

- A10731 - 180° Light Shield
- A10831 - 90° Light Shield
- GFCI - GFCI Box
- NAT - Natatorium Rated
- DIM - 0-10v Dimming



A14291 - Remote Controller for Occupancy Sensor

### OCCUPANCY SENSOR OPTION



\* 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

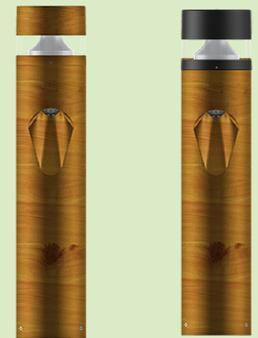
Consult factory for pricing and lead times

### 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            |  | MP01 - MicroPRIM RAL 9011 Black (Glossy)                |
|  | MHG - MAHOGANY FINISH        |  | MP02 - MicroPRIM RAL 7043 Dark Grey (Glossy)            |
|  | BH - BEECH FINISH            |  | MP03 - MicroPRIM RAL 9003 White (Glossy)                |
|  | CN - CHESTNUT FINISH         |  | MP04 - MicroPRIM RAL 9006 Metallic Silver (Glossy)      |
|  | WMBL - WHITE MARBLE FINISH   |  | MP05 - MicroPRIM RAL 9006 Matte Silver (Matte/Textured) |
|  | MBL - MARBLE FINISH          |  | MP06 - MicroPRIM Ligman Bronze (Glossy)                 |
|  | GRNT - GRANITE FINISH        |  | MP07 - MicroPRIM Custom Color (Glossy)                  |
|  | BGD - BRUSHED GOLD FINISH    |  |   |
|  | BBRZ - BRUSHED BRONZE FINISH |  |   |
|  | CAMO - CAMOUFLAGE FINISH     |  |   |



MicroPRIM Finish + Two-Tone Style



# Lightsoft Product Family



Lightsoft 1

- ULH-10655-27w-1188lm [23.6"]
- ULH-10665-27w-1188lm [39.3"]



Lightsoft 2

- ULH-10675-27w-1050lm [23.6"]
- ULH-10685-27w-1050lm [39.3"]



Lightsoft 3

- ULH-10573-14w-447lm [23.6"]
- ULH-10583-14w-447lm [39.3"]



Lightsoft 4

- ULH-10593-14w-346lm [23.6"]
- ULH-10603-14w-346lm [39.3"]



Lightsoft 5

- ULH-31146-14w-447lm



Lightsoft 6

- ULH-31156-14w-346lm