# **ULH-10665**

# Lightsoft 1 Bollard

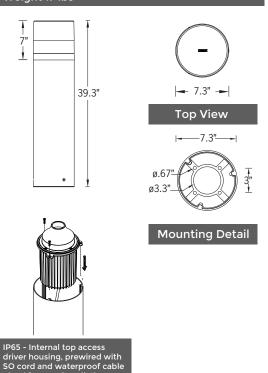




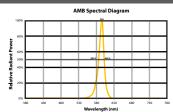
## 27w LED 1188 Lumens

IP65 • Suitable For Wet Locations

IK08 • Impact Resistant (Vandal Resistant) Weight 17 lbs



### CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT



### Narrow-Spectrum Amber LEDs

gland for easy installation.

Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.t

### 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

48 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

I M6 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.

<u>Surge Suppression</u> Standard 10kv surge suppressor provided with all fixtures.

## BUG Rating B1 - U3 - G1

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

Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

#### **Inspired by Nature Finishes**

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

<u>The Coating Process</u>
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

### Added Benefits

- Resistance to salt-acid room, accelerated aging Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch Super durable (UV resistant)
- · TGIC free (non-toxic)

### **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.

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 the 5 year warranty. For this natatorium rated process please specify NAT in options.

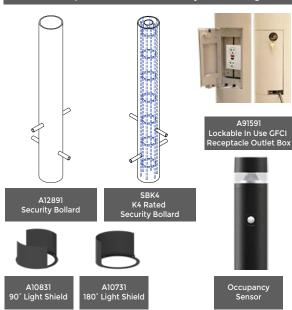
### Security Bollard:

This Bollard is available as a traffic rated security bollard. This optional design includes a 1/4" wall thickness galvanized steel security pole with 2 1" galvanized cross support rods that are embedded into concrete.

The standard security bollard provides restraint of vehicular traffic in unauthorized areas. Impact calculations shows this bollard will stop a 5,500lb/2.75 tons vehicle, travelling at 30mph. For additional strength, the galvanized pole must be filled with concrete up to the waterproof driver housing to provide a solid concrete barrier.

A K4 rated security bollard is also available. This bollard is provided with internal reinforcement and is to be filled with concrete at the job site by others. This bollard will stop a 15,000lb vehicle traveling at 30mph.

### Additional Options (Consult Factory For Pricing)



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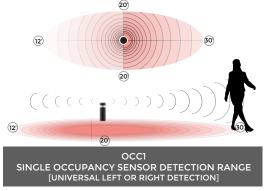
Lightsoft 1 Bollard

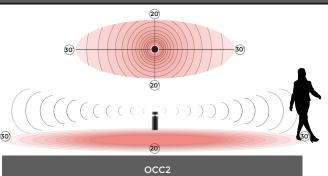


**PROJECT** DATE NOTE QUANTITY **TYPE** 

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

## **OCCUPANCY SENSOR OPTIONS**





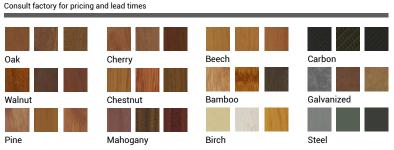
DUAL OCCUPANCY SENSOR DETECTION RANGE

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

#### ULH-10665 LAMP **LED COLOR FINISH COLOR VOLTAGE** 27w LED 120/2**77**v W27 - 2700K 01 - BLACK RAL 9011 **ADDITIONAL OPTIONS** 1188 Lumens W30 - 3000K 02 - DARK GREY RAL 7043 Other - Specify W35 - 3500K 03 - WHITE RAL 9003 A10731 - 180° Light Shield SBK4 - K4 Rated Security Bollaerd W40 - 4000K 04 - METALLIC SILVER RAL 9006 A10831 - 90° Light Shield HGT - Custom Bollard Height [Specify HGT=XX"] 05 - MATTE SILVER RAL 9006 GFCI - GFCI Box 06 - LIGMAN BRONZE DIM - 0-10v Dimming NAT - Natatorium Rated OCC1 - Single Occupancy Sensor 07 - CUSTOM RAL AMB - Turtle Friendly Amber LED OCC2 - Dual Occupancy Sensor INSPIRED BY NATURE FINISHES A91591 - Lockable In Use GFCI Receptacle Outlet Box A12891 - Security Bollard SW01 - OAK FINISH SW02 - WALNUT FINISH SW03- PINE FINISH DF - DOUGLAS FIR FINISH CW - CHERRY WOOD FINISH THERE IS AN ADDITIONAL OST FOR THESE FINISHES NW - NATIONAL WALNUT FINISH

# More Custom Finishes Available Upon Request

Consult factory for pricing and lead times









SU01 - CONCRETE FINISH SU02 - SOFTSCAPE FINISH SU03 - STONE FINISH SU04 - CORTEN FINISH

<sup>\*</sup> The integrated, smart occupancy sensor can be programmed on site to function in a variety of ways.

# Bollard occupancy sensor settings

Please specify factory setting requirements



DIP Switch Settings (HC403VRC-KD)

1 Detection Range

Sensor sensitivity can be adjusted by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2	
I			100%
II		$\bigcirc$	75%
III			50%
IV	0	$\bigcirc$	10%

I − 100% II − 75% III − 50% V − 10%

2 Hold-time

Select the dip switch configuration for the full brightness on-time after presense detection

Please note that this function is disabled when the natural daylight exceeds the daylight threshold setting for more than 5 minutes.

	1	2	3	
I				5s
II			0	30s
III		0		1min
IV		0	0	5min
V	0			10min
VI	0		$\bigcirc$	20min
VII	0	0	0	30min

I − 5s
II − 30s
III − 1min
IV − 5min
V − 10min
VI − 20min
VII − 30min

### 3 Daylight Threshold

Set the level according to the fixture and environment. The light will not turn on if ambient lux level exceeds the daylight threshold preset.

Please note that the ambient lux level refers to internal light reaching the sensor.

Disabling the daylight sensor will put the sensor into occupancy detection only mode.

		1	2	
	I			Disable
	II		0	5.0fc
	III	$\bigcirc$		1.0fc
	IV	0	$\bigcirc$	0.2fc

I – Disable II – 5.0fc III – 1.0fc IV – 0.2fc

4 Stand-by period (corridor function)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

Note: "0s" means on/off control;

"+  $\infty$  "means the stand-by time is infinite and the fixture never switches off.

	1	2	3		
I		•		Os	
II		•	0	10s	
III		0		1 min	,
IV		$\bigcirc$	0	5min	١
V	0			10min	2
VI	0		0	30min	
VII	0	0		1H	
VIII	0	0	0	+∞	

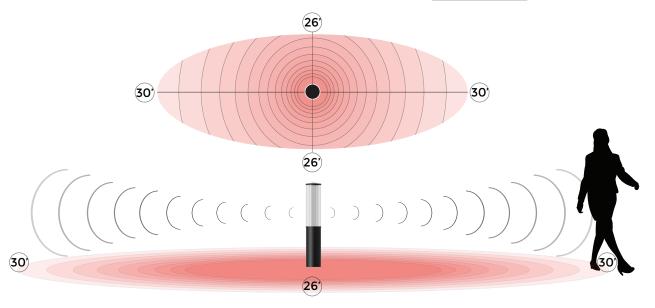
I – 0s II – 10s III – 1 min IV – 5 min V – 10 min VI – 30 min VII – 1 H VIII – + ∞

5 Stand-by dimming level

The setting is used to select the desired dimmed light level used in periods of absence for enhanced comfort and safety.

	1	2	
I			10%
II		$\bigcirc$	20%
III	0		30%
IV	0	$\bigcirc$	50%

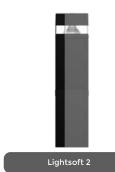
I – 10% II – 20% III – 30% IV – 50%



# **Lightsoft Product Family**

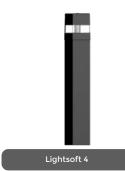


- ULH-10655-27w-1188lm [23.6"]
- ULH-10665-27w-1188lm [39.3"]



• 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"]



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



Lightsoft 5

• ULH-31146-14w-447lm



Lightsoft 6

• ULH-31156-14w-346lm