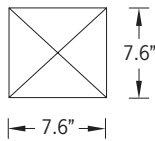
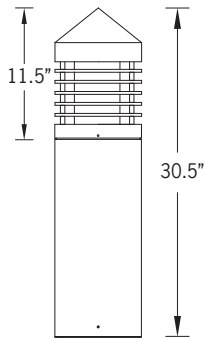
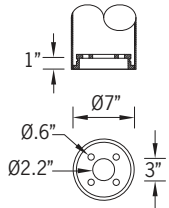




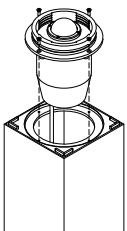
41w COB 407 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 19.1 lbs



Top View



Mounting Detail



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

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.

BUC Rating

B0 - 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.

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 powder coating.

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.

The Coating Process

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 decoration.

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.

Opal Borosilicate Glass Lens

Provided with opal borosilicate impact resistant glass.

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)

Time-honored stout pathway bollard range. Unidirectional square-structured bollard range with characteristic lines for a traditional urban setting.

A decorative bollard with a symmetrical light distribution. Developed to complement the Startech range of pillar lights. Designed for various applications including entrances, gardens, precincts and pathways. Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours.

The Startech 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.

Custom wattages can be provided to suit customer and Title 24 requirements. (Specify total watts per fixture)

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



UST-10337

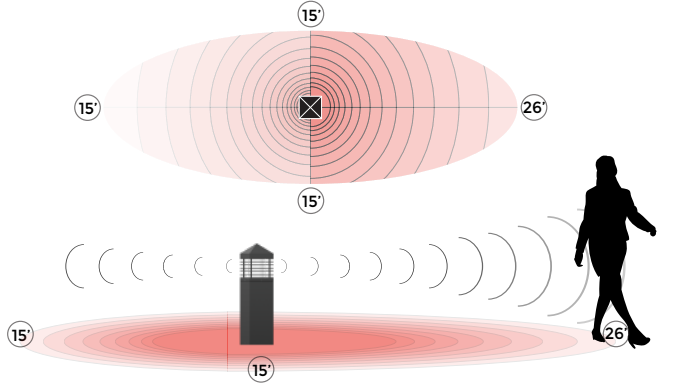
Startech 1 Bollard

PROJECT		DATE	
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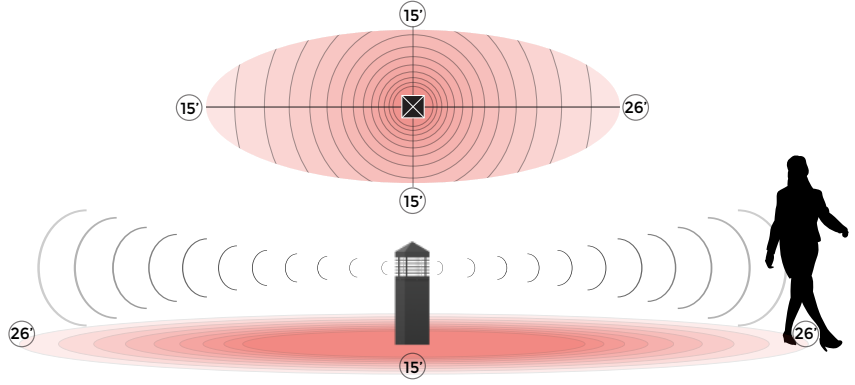
QUANTITY		TYPE		NOTE	
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ORDERING EXAMPLE || UST - 10337 - 41w - W30 - 02 - 120/277v - Options

OCCUPANCY SENSOR OPTIONS



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



OCC2
DUAL OCCUPANCY SENSOR DETECTION RANGE

* 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

UST-10337				
LAMP	LED COLOR	FINISH COLOR	VOLTAGE	

41w COB
407 Lumens

W27 - 2700K
W30 - 3000K
W35 - 3500K
W40 - 4000K

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



120/277v
Other - Specify

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ADDITIONAL OPTIONS

- UL - Unlit Bollard
- GFCI - GFCI Box
- NAT - Natatorium Rated
- DIM - 0-10v Dimming
- HGT - Custom Bollard Height [Specify HGT=XX"]
- OCC1 - Single Occupancy Sensor
- OCC2 - Dual Occupancy Sensor

INSPIRED BY NATURE 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

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

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	
<input type="checkbox"/> I	●	●	100%
<input type="checkbox"/> II	●	○	75%
<input type="checkbox"/> III	○	●	50%
<input type="checkbox"/> IV	○	○	10%

I – 100%
 II – 75%
 III – 50%
 IV – 10%

2 Hold-time

Select the dip switch configuration for the full brightness on-time after presence 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	
<input type="checkbox"/> I	●	●	●	5s
<input type="checkbox"/> II	●	●	○	30s
<input type="checkbox"/> III	●	○	●	1min
<input type="checkbox"/> IV	●	○	○	5min
<input type="checkbox"/> V	○	●	●	10min
<input type="checkbox"/> VI	○	●	○	20min
<input type="checkbox"/> VII	○	○	○	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	
<input type="checkbox"/> I	●	●	Disable
<input type="checkbox"/> II	●	○	5.0fc
<input type="checkbox"/> III	○	●	1.0fc
<input type="checkbox"/> IV	○	○	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;

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

	1	2	3	
<input type="checkbox"/> I	●	●	●	0s
<input type="checkbox"/> II	●	●	○	10s
<input type="checkbox"/> III	●	○	●	1min
<input type="checkbox"/> IV	●	○	○	5min
<input type="checkbox"/> V	○	●	●	10min
<input type="checkbox"/> VI	○	●	○	30min
<input type="checkbox"/> VII	○	○	●	1H
<input type="checkbox"/> VIII	○	○	○	+∞

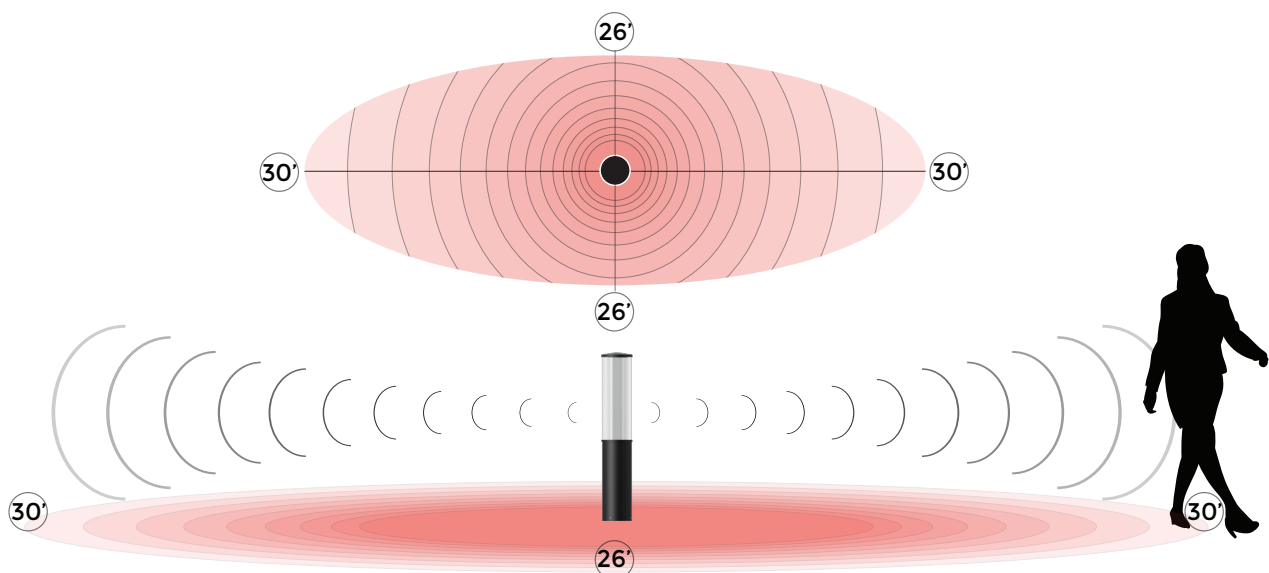
I – 0s
 II – 10s
 III – 1min
 IV – 5min
 V – 10min
 VI – 30min
 VII – 1H
 VIII – +∞

5 Stand-by dimming level

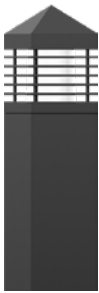
The setting is used to select the desired dimmed light level used in periods of absence for enhanced comfort and safety.

	1	2	
<input type="checkbox"/> I	●	●	10%
<input type="checkbox"/> II	●	○	20%
<input type="checkbox"/> III	○	●	30%
<input type="checkbox"/> IV	○	○	50%

I – 10%
 II – 20%
 III – 30%
 IV – 50%

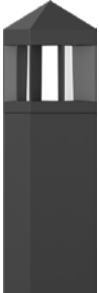


Startech Product Family



Startech 1

- UST-10347-41w-407lm [42.5"]
- UST-10337-41w-407lm [30.5"]
- UST-70177-41w-407lm [19.8"]



Startech 2

- UST-10367-41w-1030lm [42.9"]
- UST-10357-41w-1030lm [30.9"]
- UST-70187-41w-1030lm [20.2"]