ULI-10022

Light Linear PT 1 Single Head Bollard



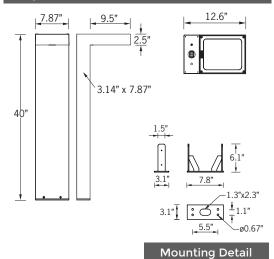




55w LED 6240 Lumens

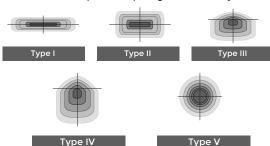
IP65 • Suitable For Wet Locations

IK08 • Impact Resistant (Vandal Resistant) Weight 26 lbs

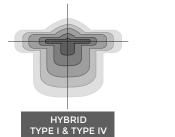


TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



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

deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Memory Retentive – Silicon Casket
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

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

BUG Rating

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

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

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.

- 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)

<u>Hardware</u> 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.

<u>Crystal Clear Low Iron Glass Lens</u> 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.

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

Area distribution bollard-integrated projectors. Stylish but technically precise area lighting solutions as part of a large flexible family.

Light Linear PT Bollard is an elegant minimalistic bollard that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual sealed optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LED's, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements.

An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture.

This product range is available in 29w and 55w options, as single & double head styles.

Customer specific wattages can be provided, contact the factory for more information.

Bollards can be provided with GFCI boxes positioned to specific heights specified by the customer.

Internal house side shields are available as an option.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.

Optional: Security Bollard:

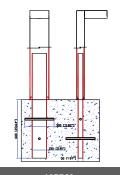
The Light Linear Bollard is available as a traffic rated security bollard.

This 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.

The galvanized pole must be filled with concrete up to the waterproof driver housing to provide a solid concrete barrier.

Additional Options (Consult Factory For Pricing)



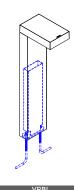
A13391 Security Bollard



GFCI GFCI Box



Ligman can provide custom logos and signage in the Light Linear Bollard
The images above show this feature in the Light Linear VT Bollard



This vandal resistant

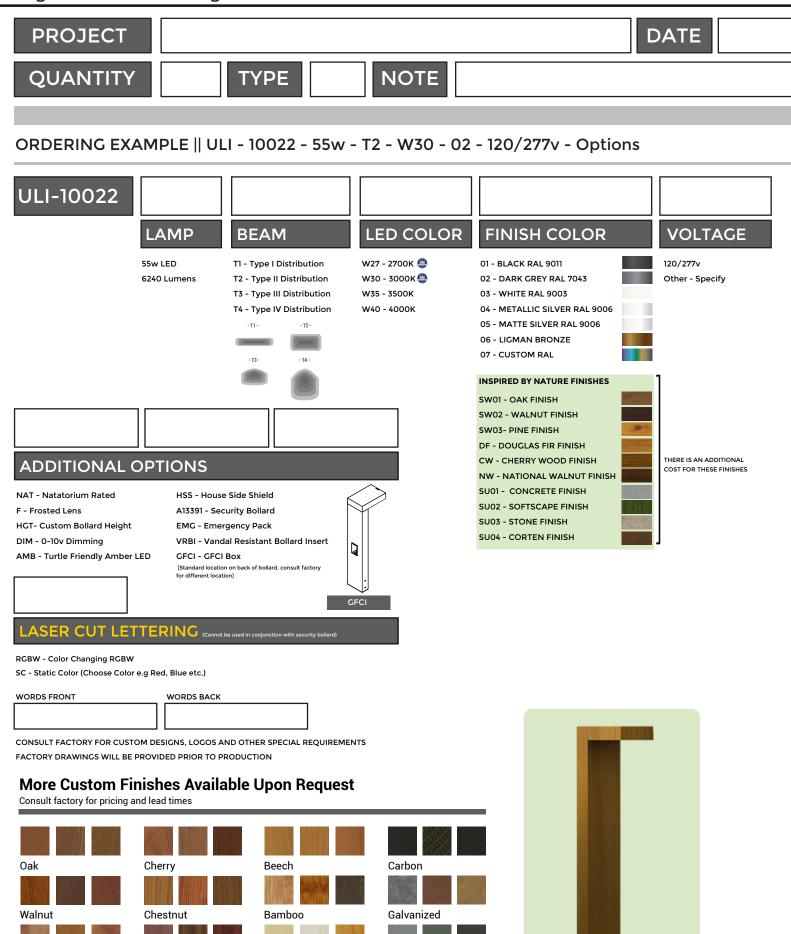
galvanized steel insert provides additional support and rigidity in areas with high pedestrian traffic

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Steel



Example: Inspired by Nature Finish

Mahogany

Pine

Light Linear PT Product Family



Light Linear PT 1

- ULI-10021-28w-3169lm
- ULI-10022-54w-6240lm



Light Linear PT 5

- ULI-21181-2x54w-2x6193lm • ULI-21183-2x82w-2x8448lm

Light Linear PT 9

- ULI-21181-2x54w-2x6193lm
- · ULI-21183-2x82w-2x8448lm



Light Linear PT 2

- ULI-10031-2x28w-2x3169lm • ULI-10032-2x54w-2x6240lm

Light Linear PT 6

• ULI-21182-2x105w-2x12518lm • ULI-21321-2x155w-2x16891lm



Light Linear PT 10

• ULI-21182-2x105w-2x12518lm • ULI-21321-2x155w-2x16891lm



- ULI-21171-54w-6193lm
- ULI-21173-82w-8448lm



Light Linear PT 4

- ULI-21172-105w-12518lm
- ULI-21291-155w-16891lm



Light Linear PT 8

• ULI-21241-54w-6193lm



Light Linear PT 11

- ULI-30021-28w-3169lm
- ULI-30022-37w-4636lm

Light Linear PT 7

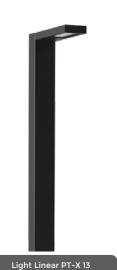
• ULI-21231-28w-3169lm



Light Linear PT 12

- ULI-30011-37w-4601lm
- ULI-30012-54w-6193lm

Light Linear PT-X

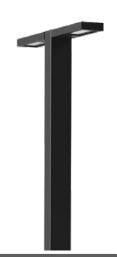


- · ULI-21331-104w-15294lm
- · ULI-21332-136w-19320lm



Light Linear PT-X 14

- · ULI-21333-215w-30588lm
- · ULI-21334-272w-38640lm



Light Linear PT-X 15

- ULI-21341-2x104w-2x15294lm · ULI-21342-2x136w-2x19320lm
- Light Linear PT-X 16
 - ULI-21343-2x215w-2x30588lm
 - · ULI-21344-2x272w-2x38640lm