

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 - U2 - 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.

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)

Sturdy classic bollard pathway and stair luminaire. Simple pleasing aesthetic and sturdy construction, perfect for delineating perimeter applications with the impressive optic choices.

A range of rectangular bollards, with regressed LEDs providing excellent glare control. Suitable for illuminating pathways, driveways and squares. Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and lifetime 50,000 Hours. Low copper content die-cast aluminum housing with a high corrosion resistance.

This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the column to ensure 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)

Additional Options (Consult Factory For Pricing)

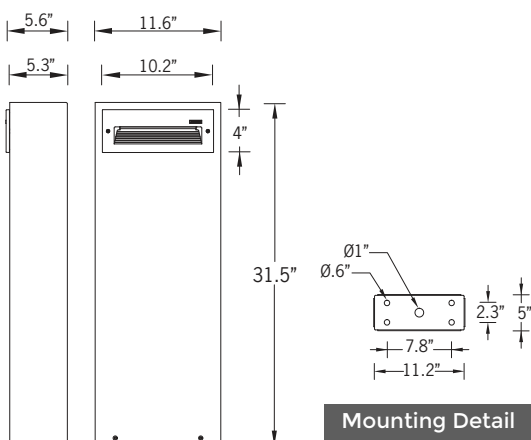


RGBW or Static Color Laser Cut Lettering, Logos & Designs (LLVT Bollard shown for visual reference)

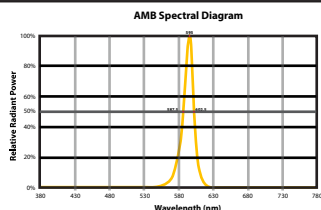
Ligman can provide custom logos and signage in the Rado Bollard
The images above show this feature in the Light Linear VT Bollard



17w LED 447 Lumens
IP65 • Suitable For Wet Locations
IK09 • Impact Resistant (Vandal Resistant)
Weight 18 lbs



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.

URA-10822

Rado 5 Bollard

PROJECT					DATE	
QUANTITY		TYPE		NOTE		

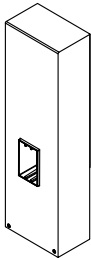
ORDERING EXAMPLE || URA-10822 - 17w - W30 - 02 - 120/277V

URA-10822				
LAMP	LED COLOR	FINISH COLOR	VOLTAGE	

17w LED 447 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

DIM - 0-10v Dimming
NAT - Natatorium Rated
AMB - Turtle Friendly Amber LED
HGT - Custom Height
GFCI - GFCI Box
[Standard location on back of bollard, consult factory for different location]



GFCI

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

LASER CUT LETTERING

(Cannot be used in conjunction with security bollard)

RGBW - Color Changing RGBW
SC - Static Color (Choose Color e.g Red, Blue etc.)

WORDS FRONT	WORDS BACK

CONSULT FACTORY FOR CUSTOM DESIGNS, LOGOS AND OTHER SPECIAL REQUIREMENTS
FACTORY DRAWINGS WILL BE PROVIDED PRIOR TO PRODUCTION

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times



Rado Product Family



Rado 1

• URA-40531-4w-133lm



Rado 2

• URA-40542-17w-620lm



Rado 3

• URA-40552-13w-540lm



Rado 4

• URA-40562-27w-853lm



Rado 5

• URA-40582-17w-447lm



Rado 6

• URA-40692-11w-471lm



Rado 7

• URA-40701-20w-1399lm



Rado 1

• URA-10751-4w-133lm



Rado 2

• URA-10772-17w-620lm



Rado 3

• URA-10792-13w-540lm



Rado 4

• URA-10812-27w-853lm



Rado 5

• URA-10822-17w-447lm