

# UMC-10013

## Mini Macaron Bollard



**LIGMAN**  
NORTH AMERICA



**42w LED**  
**5021 Lumens**

**IP66**  
Suitable for wet locations

**IK08**  
Impact Resistant [Vandal Resistant]

**Weight - 9 lbs**

### 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 decrease 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

Contact Factory

#### 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

**Modern contemporary bollard. Designed with a sleek and clean appearance. Features high powered optics, encapsulated within a small sized bollard. Designed to complement the Macron pole top fixtures.**

A modern style die-cast aluminum bollard with excellent downward light distribution that complies with dark sky requirements. Outstanding visual appeal and precision optical system gives very low glare rating, whilst reducing light pollution.

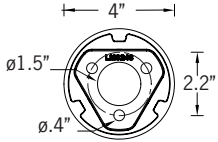
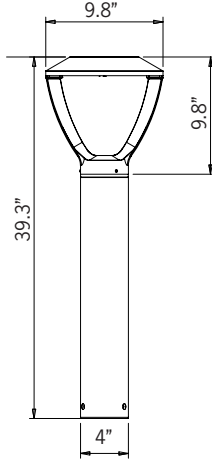
This fixture is available in two standard heights, however custom heights can be specified.

This bollard is available with the following light distributions to maximize spacing and vastly improve uniformity;  
Type II, III, Wide and Very Wide.

Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. Stainless steel screws. Durable silicone rubber gasket. Powder paint with high corrosion resistance with chemical chromatised protection. Integral control gear.

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

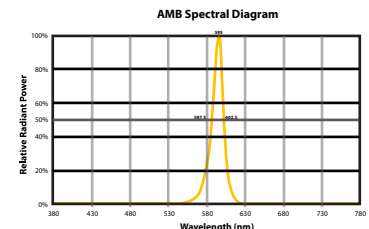
To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.



Mounting Detail



### 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.





# UMC-10013

## Mini Macaron Bollard

<b>PROJECT</b>	<input type="text"/>	<b>DATE</b>	<input type="text"/>
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<b>QUANTITY</b>	<input type="text"/>	<b>TYPE</b>	<input type="text"/>	<b>NOTE</b>	<input type="text"/>
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ORDERING EXAMPLE || UMC - 10013 - 42w - T2 - W30 - 02 - 120/277v - Options

<b>UMC-10013</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<b>LAMP</b>	<b>BEAM</b>	<b>LED COLOR</b>	<b>FINISH COLOR</b>	<b>VOLTAGE</b>
	42w LED 5021 Lumens	T2 - Type II Distribution T3 - Type III Distribution W - Wide 77°x99° VW - Very Wide 120°x140°  - T2 -  - T3 - 	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

<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ADDITIONAL OPTIONS</b>		

- NAT - Natatorium Rated
- DIM - 0-10v Dimming
- AMB - Turtle Friendly Amber LED
- HGT - Custom Bollard Height

**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

### More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

											
Oak	Walnut	Pine	Cherry	Chestnut	Mahogany	Beech	Bamboo	Birch	Carbon	Galvanized	Steel



Example: Inspired by Nature Finish

# Macaron Product Family



Macaron 1

- UMC-20001-81w-7263lm
- UMC-20002-104w-14374lm



Macaron 2

- UMC-20011-81w-7263lm
- UMC-20012-104w-14374lm



Macaron 3

- UMC-98001-104w-14374lm



Macaron 4

- UMC-10001-22w-2854lm [23.6°]
- UMC-10002-31w-3904lm [23.6°]
- UMC-10003-46w-5021lm [23.6°]



Macaron 5

- UMC-10011-22w-2854lm [39.3°]
- UMC-10012-31w-3904lm [39.3°]
- UMC-10013-46w-5021lm [39.3°]



Macaron 8

- UMC-20041-22w-2854lm