

# ULD-20001

## Lador Cluster Column



**LIGMAN**  
LIGHTING USA



### 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

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 LED still achieve 80% of their original flux)

**Adjustable column architectural cluster solution. Flexible project solutions in attractive cluster arrangements using the square-form architectural Lador spotlight range.**

A range of square outdoor IP66 floodlight projectors that meets both aesthetic and functional applications. This cubic floodlight range is available with 4 different sizes, starting with a small 2.4" square profile at 3w, and increases proportionately to 3" at 11w, 4.5" at 21w and 5.5" square at 40w. This glare free luminaire is available in Narrow 10° beam, Medium 19°, Wide 33°, Very Wide 71° and Elliptical 41°x14° beam patterns.

This luminaire is engineered to meet harsh outdoor environments, as well as being able to be used as a decorative indoor product.

The Lador is provided with an integral driver and has accessories that include; dichroic color filters, linear spread lens, honeycomb louvres and anti-glare visors.

This floodlight also has a unique aiming and locking system for precise mounting and beam aiming.

The Lador product family consists of; floodlights, wall sconces, ceiling mounted squares and cluster column event poles.

This luminaire is available with a natatorium rated coating.

Heights for Lador Cluster Columns

**ULD-20001 - 13 feet**

**ULD-20002 - 20 feet**

**ULD-20003 - 26 feet**

### Additional Options (Consult Factory For Pricing)



A51414  
Linear Spread



A52121  
Honeycomb Louvre



A20691  
Root Mount Kit



A53131  
Anti Glare Visor



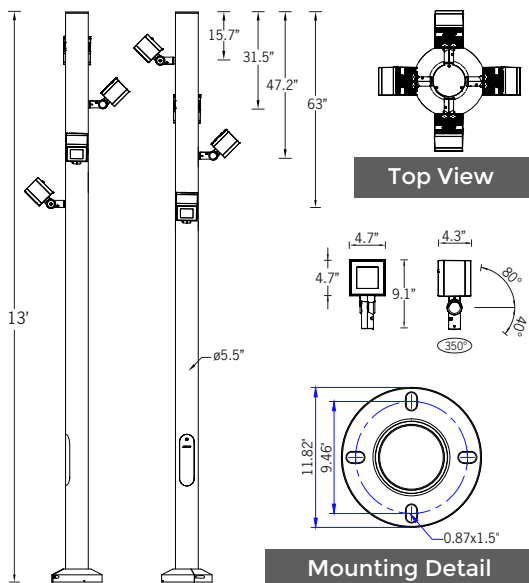
Dichroic Color Filters

4x37w LED - 4x3500 Lumens

IP65 • Suitable For Wet Locations

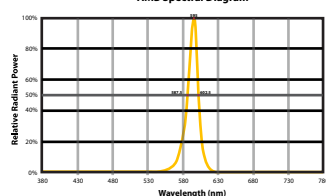
IK08 • Impact Resistant (Vandal Resistant)

Weight 45.8 lbs



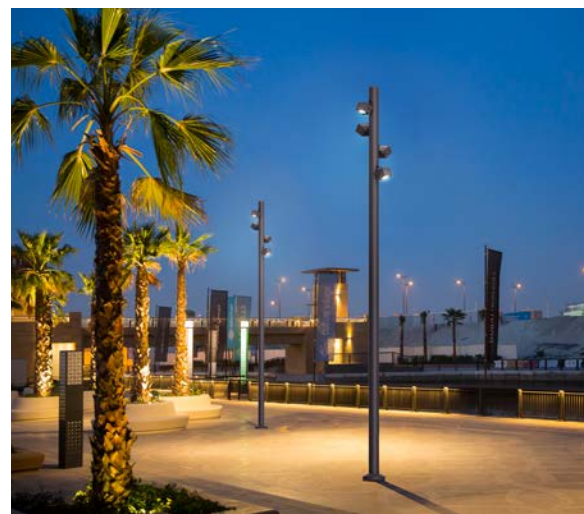
### CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

AMB Spectral Diagram



#### Narrow-Spectrum Amber LEDs

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



PROJECT					DATE	
QUANTITY		TYPE		NOTE		

ORDERING EXAMPLE || ULD - 20001 - 4x37w - M - W30 - 02 - 120/277v - Options

ULD-20001					
LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE	
4x37w LED 4x3500 Lumens	N - Narrow 10° M - Medium 19° W - Wide 33° VW - Very Wide 71° E - Elliptical 41° x 14°	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	

ADDITIONAL OPTIONS			

- DIM - 0-10v Dimming

NAT - Natatorium Rated

F - Frosted Lens

A51414 - Linear Spread Lens
- A52121 - Honeycomb Louvre

A20691 - Root Mount Kit

A53131 - Anti Glare Visor

AMB - Turtle Friendly Amber LED
- DICHROIC COLOR FILTERS

A51416 - Red Color Filter

A51417 - Blue Color Filter

A51418 - Amber Color Filter

A51419 - Green Color Filter

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

<div>Oak</div>	<div>Cherry</div>	<div>Beech</div>	<div>Carbon</div>
<div>Walnut</div>	<div>Chestnut</div>	<div>Bamboo</div>	<div>Galvanized</div>
<div>Pine</div>	<div>Mahogany</div>	<div>Birch</div>	<div>Steel</div>



# Lador Product Family

 <div><div></div><div>Lador 1</div><div><ul style="list-style-type: none"><li>• ULD-50001-3w-222lm</li><li>• ULD-50002-4w RGBW-170lm</li></ul></div></div>	 <div><div></div><div>Lador 2</div><div><ul style="list-style-type: none"><li>• ULD-50011-11w-904lm</li><li>• ULD-50012-10w RGBW-520lm</li></ul></div></div>	 <div><div></div><div>Lador 3</div><div><ul style="list-style-type: none"><li>• ULD-50021-21w-1975lm</li><li>• ULD-50022-22w RGBW-1133lm</li></ul></div></div>	 <div><div></div><div>Lador 4</div><div><ul style="list-style-type: none"><li>• ULD-50031-39w-3568lm</li><li>• ULD-50032-28w RGBW-1600lm</li></ul></div></div>	 <div><div></div><div>Lador 5/50</div><div><ul style="list-style-type: none"><li>• ULD-30001-3w-222lm</li><li>• ULD-30041-4w RGBW-170lm</li></ul></div></div>
 <div><div></div><div>Lador 6/51</div><div><ul style="list-style-type: none"><li>• ULD-30011-11w-904lm</li><li>• ULD-30051-10w RGBW-520lm</li></ul></div></div>	 <div><div></div><div>Lador 7/52</div><div><ul style="list-style-type: none"><li>• ULD-30021-11w-904lm</li><li>• ULD-30061-22w RGBW-1133lm</li></ul></div></div>	 <div><div></div><div>Lador 8/53</div><div><ul style="list-style-type: none"><li>• ULD-30031-39w-3568lm</li><li>• ULD-30071-28w RGBW-1600lm</li></ul></div></div>	 <div><div></div><div>Lador 9/32</div><div><ul style="list-style-type: none"><li>• ULD-80001-3w-222lm</li><li>• ULD-80041-4w RGBW-170lm</li></ul></div></div>	 <div><div></div><div>Lador 10/33</div><div><ul style="list-style-type: none"><li>• ULD-80011-11w-904lm</li><li>• ULD-80051-10w RGBW-520lm</li></ul></div></div>
 <div><div></div><div>Lador 11/34</div><div><ul style="list-style-type: none"><li>• ULD-80021-21w-1975lm</li><li>• ULD-80061-22w RGBW-1133lm</li></ul></div></div>	 <div><div></div><div>Lador 12/35</div><div><ul style="list-style-type: none"><li>• ULD-80031-39w-3568lm</li><li>• ULD-80071-28w RGBW-1600lm</li></ul></div></div>	 <div><div></div><div>Lador 13/14/15</div><div><ul style="list-style-type: none"><li>• ULD-20011-4x21w-4x1975lm [13']</li><li>• ULD-20021-4x39w-4x3568lm [13']</li><li>• ULD-20012-4x21w-4x1975lm [19.6']</li><li>• ULD-20022-4x39w-4x3568lm [19.6']</li><li>• ULD-20011-4x21w-4x1975lm [26.2']</li><li>• ULD-20011-4x39w-4x3568lm [26.2']</li></ul></div></div>	 <div><div></div><div>Lador 1 TKM</div><div><ul style="list-style-type: none"><li>• ULD-50041-3w-222lm</li></ul></div></div>	 <div><div></div><div>Lador 2 TKM</div><div><ul style="list-style-type: none"><li>• ULD-50051-11w-904lm</li></ul></div></div>
 <div><div></div><div>Lador 3 TKM</div><div><ul style="list-style-type: none"><li>• ULD-50061-21w-1975lm</li></ul></div></div>	 <div><div></div><div>Lador 4 TKM</div><div><ul style="list-style-type: none"><li>• ULD-50071-39w-3568lm</li></ul></div></div>	 <div><div></div><div>Lador 20/42</div><div><ul style="list-style-type: none"><li>• ULD-50081-3w-222lm</li><li>• ULD-50201-4w RGBW-170lm</li></ul></div></div>	 <div><div></div><div>Lador 21/43</div><div><ul style="list-style-type: none"><li>• ULD-50091-11w-904lm</li><li>• ULD-50211-10w-520lm</li></ul></div></div>	 <div><div></div><div>Lador 22/44</div><div><ul style="list-style-type: none"><li>• ULD-50101-21w-1975lm</li><li>• ULD-50221-22w RGBW-1133lm</li></ul></div></div>
 <div><div></div><div>Lador 23</div><div><ul style="list-style-type: none"><li>• ULD-50111-39w-3568lm</li><li>• ULD-50231-28w RGBW-1600lm</li></ul></div></div>				