LiGMAN LIGHTING USA

TURTLE FRIENDLY

4x39w LED - 4x3568 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 54.4 lbs

GERMAN INNOVATION AWARD

Dimensions
11.8"
23.6"
35.4"
47.2"
13'
4" x 4"

Top View

5.7"
4.7"
5.7"
10.1"
80°
40°
350°

.86"x2.36"
9.8"
6.84"

Mounting Detail

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)

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

AMB Spectral Diagram

Relative Radiant Power
100%
80%
60%
50%
40%
20%

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

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 cluster range is available with 2 different size floodlights. A 4.7" square profile at 21w and 5.7" square at 39w. 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.
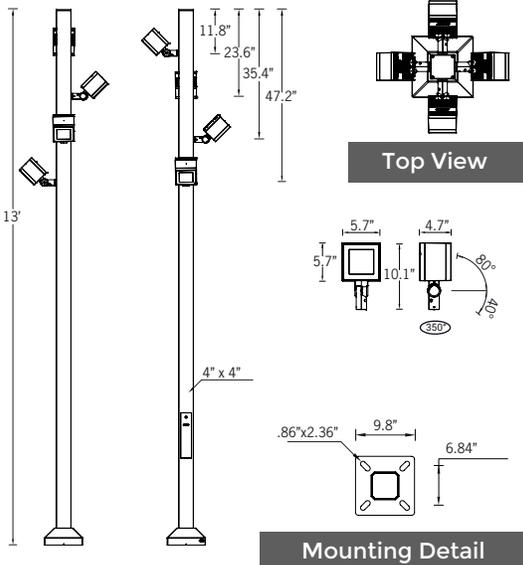
This floodlight also has a unique aiming and locking system for precise mounting and beam aiming.

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

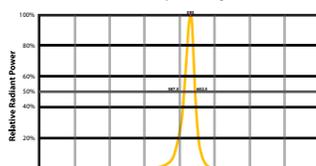This luminaire is available with a natatorium rated coating.

ULD-20011 - 13 foot Aluminum (4.7" Flood)
ULD-20021 - 13 foot Aluminum (5.7" Flood)
ULD-20012 - 20 feet Aluminum (4.7" Flood)
ULD-20022 - 20 feet Aluminum (5.7" Flood)
ULD-20013 - 26 feet Steel (4.7" Flood)
ULD-20023 - 26 feet Steel (5.7" Flood)

Additional Options (Consult Factory For Pricing)

A51314 Linear Spread	A52021 Honeycomb Louvre	A20691 Root Mount Kit	A53031 Anti Glare Visor

Dichroic Color Filters

ULD-20021
Lador 13 Square Aluminum Cluster Column

LIGMAN LIGHTING USA

PROJECT		DATE	

QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || ULD - 20021 - 4x39w - M - W30 - 02 - 120/277v - Options

ULD-20021

LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
4x39w LED	N - Narrow 10˚	W27 - 2700K	01 - BLACK RAL 9011	120/277v
4x3568 Lumens	M - Medium 19˚	W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
	W - Wide 33˚	W35 - 3500K	03 - WHITE RAL 9003	
	VW - Very Wide 71˚	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
	E - Elliptical 41˚ x 14˚		05 - MATTE SILVER RAL 9006	
			06 - LIGMAN BRONZE	
			07 - CUSTOM RAL	

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

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
F - Frosted Lens
A51314 - Linear Spread Lens

A52021 - Honeycomb Louvre
A20691 - Root Mount Kit
A53031 - Anti Glare Visor
AMB - Turtle Friendly Amber LED

DICHROIC COLOR FILTERS
A51316 - Red Color Filter
A51317 - Blue Color Filter
A51318 - Amber Color Filter
A51319 - Green Color Filter

More Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak

Cherry

Beech

Carbon

Walnut

Chestnut

Bamboo

Galvanized

Pine

Mahogany

Birch

Steel

Example: Inspired by Nature Finish

ETL Intertek

Lador Product Family

Lador 1
- ULD-50001-3w-222lm
- ULD-50002-4w RGBW-170lm

Lador 2
- ULD-50011-11w-904lm
- ULD-50012-10w RGBW-520lm

Lador 3
- ULD-50021-21w-1975lm
- ULD-50022-22w RGBW-1133lm

Lador 4
- ULD-50031-39w-3568lm
- ULD-50032-28w RGBW-1600lm

Lador 5/50
- ULD-30001-3w-222lm
- ULD-30041-4w RGBW-170lm

Lador 6/51
- ULD-30011-11w-904lm
- ULD-30051-10w RGBW-520lm

Lador 7/52
- ULD-30021-11w-904lm
- ULD-30061-22w RGBW-1133lm

Lador 8/53
- ULD-30031-39w-3568lm
- ULD-30071-28w RGBW-1600lm

Lador 9/32
- ULD-80001-3w-222lm
- ULD-80041-4w RGBW-170lm

Lador 10/33
- ULD-80011-11w-904lm
- ULD-80051-10w RGBW-520lm

Lador 11/34
- ULD-80021-21w-1975lm
- ULD-80061-22w RGBW-1133lm

Lador 12/35
- ULD-80031-39w-3568lm
- ULD-80071-28w RGBW-1600lm

Lador 13/14/15
- ULD-20011-4x21w-4x1975lm [13']
- ULD-20021-4x39w-4x3568lm [13']
- ULD-20012-4x21w-4x1975lm [19.6']
- ULD-20022-4x39w-4x3568lm [19.6']
- ULD-20011-4x21w-4x1975lm [26.2']
- ULD-20011-4x39w-4x3568lm [26.2']

Lador 1 TKM
- ULD-50041-3w-222lm

Lador 2 TKM
- ULD-50051-11w-904lm

Lador 3 TKM
- ULD-50061-21w-1975lm

Lador 4 TKM
- ULD-50071-39w-3568lm

Lador 20/42
- ULD-50081-3w-222lm
- ULD-50201-4w RGBW-170lm

Lador 21/43
- ULD-50091-11w-904lm
- ULD-50211-10w-520lm

Lador 22/44
- ULD-50101-21w-1975lm
- ULD-50221-22w RGBW-1133lm

Lador 23
- ULD-50111-39w-3568lm
- ULD-50231-28w RGBW-1600lm