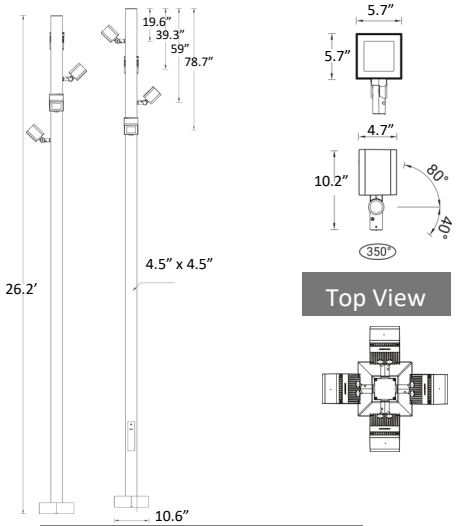
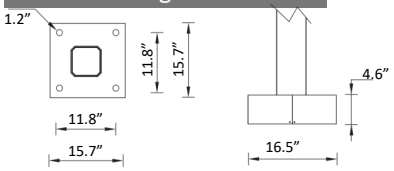
ULD-20023

Lador 15 Square Cluster Column: Steel Pole

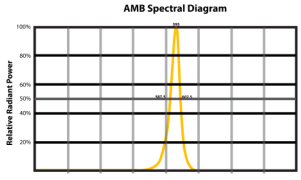
4x35w—4x16 LED [13,052lm— 16,440Lm]
IP66 | Suitable for Wet Locations
IK08 | Impact Resistance
Weight : 279.8 lbs.



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.

Construction

The fixture is constructed using marine-grade 6060 extruded aluminum and LM6 high-pressure die-cast aluminum. With less than 0.1% copper content, this combination offers excellent mechanical strength, clean and detailed product lines, and superior heat dissipation — ideal for demanding environments.

Pre-Paint Treatment

Before painting, all components undergo an 8-step degreasing and phosphate process. This includes deoxidizing, etching, and a zinc-nickel phosphate layer to ensure optimal paint adhesion and long-term corrosion resistance.

Gasket System

Each fixture is equipped with specially injection-molded, high-temperature, memory-retentive silicone gaskets. These gaskets are designed to maintain their exact profile and sealing performance over years of compression and use, ensuring long-term reliability.

Thermal Management

LM6 aluminum is selected for its excellent thermal dissipation properties in both low and high ambient temperatures. Ligman's advanced heat sink design, integrated with the driver, maintains thermal levels below critical thresholds. This ensures maximum luminous flux output, extends LED service life, and achieves less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

All fixtures are equipped with a standard 10kV surge suppressor to protect against electrical spikes and ensure operational stability.

Inspired by Nature Finishes

Ligman's "Inspired by Nature" finish is a patented decorative powder coating system that transforms metal surfaces into realistic wood grain, marble, or granite textures. The finish permeates the full thickness of the coating, making it highly resistant to rubbing, chipping, and scratching. Over 300 design combinations are available, offering extensive customization for architectural integration.

Coating Process

After pre-treatment, components are powder-coated with a specially formulated polyurethane base. This provides protection against wear, abrasion, impact, and corrosion. A printed film with high-temperature inks is vacuum-sealed to the surface and thermally transferred in a customized oven. The result is a vivid, durable wood grain finish that is nearly indistinguishable from real wood.

Performance & Durability

Ligman's powder coatings are certified for both indoor and outdoor applications and backed by a comprehensive warranty. They offer resistance to salt-acid environments, boiling water, lime, and condensation. Additional features include anti-graffiti, anti-slip, anti-microbial, and anti-scratch properties. The coatings are UV-resistant, super durable, and TGIC-free (non-toxic).

Finishing & Paint

All products undergo extensive finishing, including fettling to improve paint adherence. The UV-stabilized powder coat is applied at a thickness of 4.9 mil and baked at 200°C, making it suitable for harsh environments, including natatoriums.

Hardware & Assembly

Fixtures are supplied with marine-grade 316 stainless steel hardware. Tapped holes are treated with a special anti-seize compound to prevent thread seizure caused by electrolysis, heat, moisture, or corrosive atmospheres.

Optics & Lens

Each fixture includes a crystal-clear, low-iron tempered glass lens that is impact-resistant and free of green tint. Precision optics ensure exceptional light control and accurate distribution. LEDs have a CRI greater than 80.

Lumen Maintenance

The system achieves **L80 / B10 at 50,000 hours**, meaning at least 90% of the LEDs maintain 80% of their original luminous flux after 50,000 hours of operation.

Adjustable Column Architectural Cluster Solution

The Lador spotlight range offers a flexible architectural cluster solution designed for both aesthetic appeal and functional performance. This system allows for attractive multi-head arrangements mounted on adjustable columns, making it ideal for a variety of project applications.

The Lador family consists of square-form outdoor IP66-rated floodlight projectors available in two sizes: a compact 4.7" square profile operating at 21W, and a larger 5.7" square profile at 39W. These luminaires are engineered to deliver glare-free illumination and are available in a range of beam patterns, including Narrow (10°), Medium (19°), Wide (33°), Very Wide (71°), and Elliptical (41°x 14°), allowing for precise light distribution tailored to the project's needs.

Designed to withstand harsh outdoor environments, the Lador can also be used as a decorative indoor fixture. Each unit is equipped with an integral driver and supports a variety of accessories, such as dichroic color filters, linear spread lenses, honeycomb louvres, and anti-glare visors. A unique aiming and locking system ensures accurate beam positioning and secure mounting.

The Lador product family includes floodlights, wall sconces, ceiling-mounted squares, and cluster column event poles. For environments requiring enhanced durability, the luminaire is available with a natatorium-rated coating.

Available Configurations

- **ULD-20011** – 13 ft Aluminum Column (4.7" Floodlight)
- **ULD-20021** – 13 ft Aluminum Column (5.7" Floodlight)
- **ULD-20012** – 20 ft Aluminum Column (4.7" Floodlight)
- **ULD-20022** – 20 ft Aluminum Column (5.7" Floodlight)
- **ULD-20013** – 26 ft Steel Column (4.7" Floodlight)
- **ULD-20023** – 26 ft Steel Column (5.7" Floodlight)

Additional Options (Consult Factory For Pricing)

A51414 Linear Spread Lens	A52121 Honeycomb Louvre	A20691 Root Mount Kit	A53131 Anti-Glare visor

Dichroic Color Filters

ULD-20023

Lador 15 Square Steel Cluster Column

LIGMAN LIGHTING USA

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || ULD - 20023 - 4x39w - M - W30 - 02 - 120/277v - Options

ULD-20023					
	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
	4x39w LED 4x3568 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
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

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
Cherry
Beech
Carbon
Walnut
Chestnut
Bamboo
Galvanized
Pine
Mahogany
Birch
Steel

Example: Inspired by Nature Finish

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