

ULD-20081

Lador 41 Square Aluminum 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 cluster range is available with 2 different size floodlights. A 4.7" square profile and 5.7" square. This glare free luminaire is available in Narrow, Medium, Wide, Very Wide and Elliptical 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; 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.

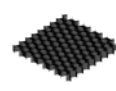
The Lador product family consists of; floodlights, wall sconces, ceiling mounted squares and cluster column event poles.

This luminaire is available with a natatorium rated coating.

Additional Options (Consult Factory For Pricing)



A51414
Linear Spread



A52121
Honeycomb Louvre



A53131
Anti Glare Visor



A68391
STICK-DE3
[Nicolaudie]



A64491
TPC Touch Screen
and Controller DMX
[Pharos]



A64591
POE Connect
[Pharos]



A64691
TPC Touch Screen
and Controller DMX 2
[Pharos]



A64791
RDM DMX Splitter
[Pharos]



A65191
TPC Touch Panel
Station
[Pharos]



A65391
EDN Ethernet
Data Node
[Pharos]



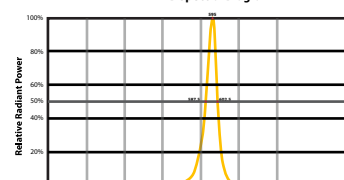
A66991
LPCX Lighting
Playback Controller X
[Pharos]



A64991
CLOUD
[Pharos]

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.

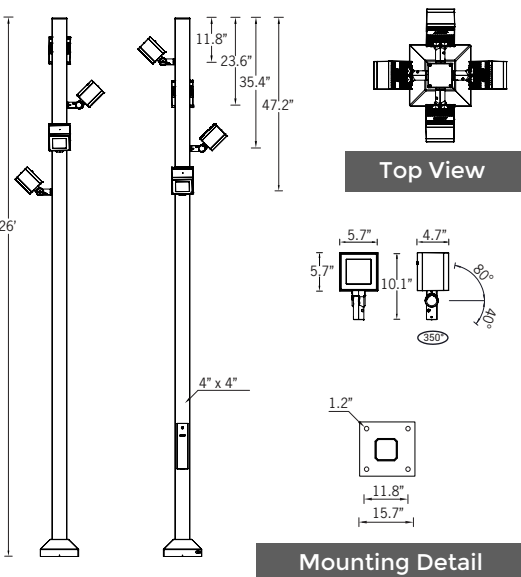
RGBW

4x28w LED - 4x1600 Lumens

IP65 • Suitable For Wet Locations

IK08 • Impact Resistant (Vandal Resistant)

Weight 280 lbs



Top View

Mounting Detail

PROJECT					DATE	
QUANTITY		TYPE		NOTE		

ORDERING EXAMPLE || ULD - 20081 - 4x28w - M - RGBW30 - 02 - 120/277v - Options

ULD-20081					
LAMP	BEAM	RGBW COLOR	FINISH COLOR	VOLTAGE	
4x28w LED 4x1600 Lumens	N - Narrow 8° M - Medium 17° W - Wide 26° VW - Very Wide 65° E - Elliptical 43° x 11°	RGBW30 - Warm White 3200K RGBW40 - Neutral White 4000K RGBW65 - Cool White 6850K	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

A68391 - STICK-DE3

A64491 - TPC + DMX Controller

A64591 - POE Connect

A64691 - TPC + DMX 2
- A52121 - Honeycomb Louvre

A53131 - Anti Glare Visor

AMB - Turtle Friendly Amber LED

A64791 - RDM DMX Splitter

A65191 - TPC Touch Panel

A65391 - EDN Ethernet Data Node

A66991 - LPCX Lighting Playback

A64991 - CLOUD

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

RGBW DMX/RDM Control

RGBW control requires precise communication between lighting fixtures and IP-based systems. To manage Red, Green, Blue, and White diodes effectively, each fixture must be pre-addressed to ensure accurate individual or grouped control.

Ligman's Engineered Approach

Ligman offers a structured, performance-driven methodology for RGBW system design and deployment.

Fixture Addressing

- Default: Fixtures are factory-programmed with the same DMX address unless otherwise specified.
- Issue: Identical addresses cause all fixtures to respond as one—changing colors simultaneously.

Solution: Assign unique DMX addresses to each fixture during programming or via RDM tools to enable independent or grouped control.

Termination Resistors

To prevent signal interference (crosstalk) between fixtures:

- Ligman supplies 120-ohm termination resistors.
- Install inside the last fixture or at its J-Box. – (Resistor will be factory installed on most fixtures, Some will require installation Onsite Depend-ent Upon Fixture and Type.) - Connect between DMX+ and DMX- signal lines.

System Design Guidelines

Fixture Count

- On 3 or More Fixtures: A terminating resistor is installed at the end of the run.

On 5 or More Fixtures: Ligman may request additional layout details to validate system integrity.

Fixtures with Dual DMX Addresses require more DMX channels, reducing the number of fixtures per run. *(Refer to technical drawings for specifics.)*

- Maximum Distance Without Booster: 984 ft (300 m) from the controller.

Beyond This Limit: DMX/RDM splitters or boosters are required.

Custom Layouts

For non-standard RGBW configurations, Ligman requires:

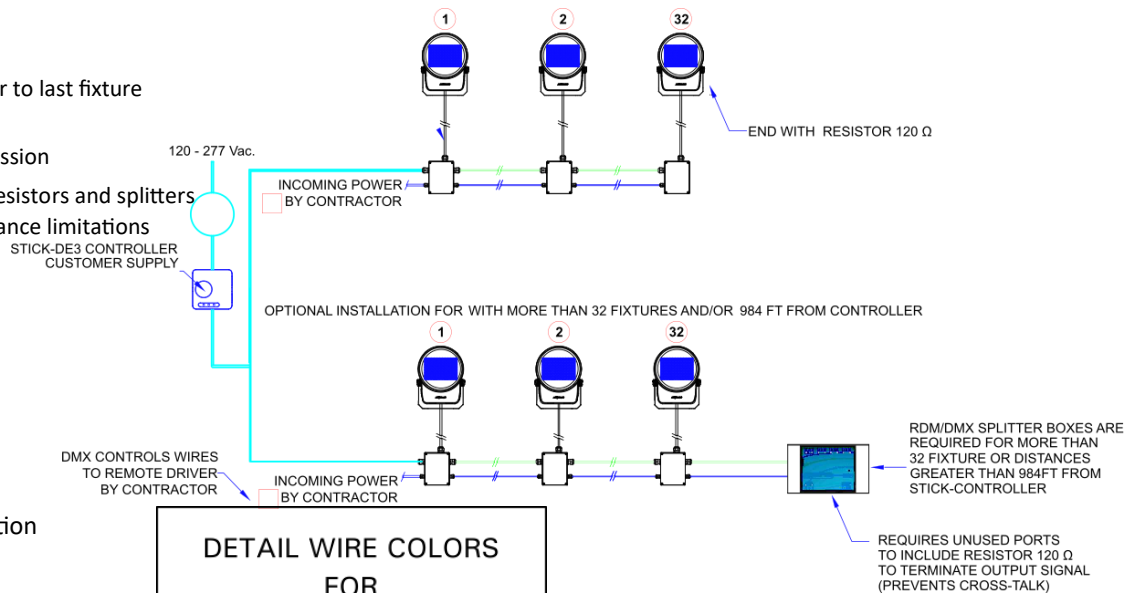
- Fixture quantity per run
- Distance between fixtures

Total cable length from controller to last fixture

This ensures:

- Reliable DMX signal transmission
- Proper use of termination resistors and splitters

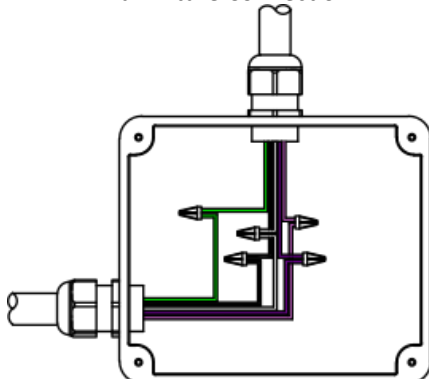
Compliance with fixture and distance limitations



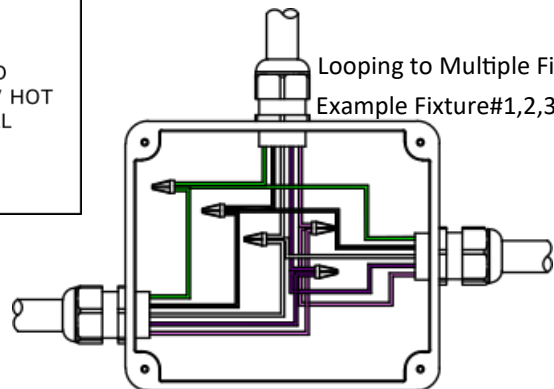
Single Fixture Connection

Or

Final Fixture Connection



Looping to Multiple Fixtures
Example Fixture#1,2,3,4,ect.





STICK-DE3

The feature rich lighting controller has been designed to provide a control solution for the most demanding of projects, whilst maintaining an easy to use panel of touch sensitive buttons. The controller integrates a graphical color screen allowing scene photos to be displayed. Easily view the selected zone, scene name and design without the need to navigate through complex menus. Change the speed, color and dimmer using the circular palette.

The lighting levels, color and effects can be programmed from a PC, Mac, Android, iPad or iPhone using the included software.



Stick-DE3



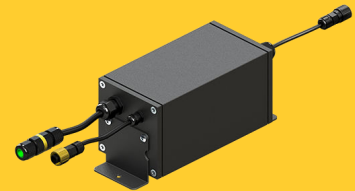
A64791

RDM DMX Splitters

The RDM (Remote Device Management) is a 4 port DMX512 Splitter compatible with the RDM standard to provide DMX output to luminaires and other devices. DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation.

DMX Splitter / Booster - Remote IP65 Box

DMX/RDM Splitter, within an IP65 box with 1 channel output, is a digital signal distributor is used with DMX512-A and ANSI E1.20 RDM. 1-port, DMX/RDM isolated splitter engineered to take any architectural, commercial, or entertainment project to the next level. Multiple DMX/RDM Splitter can be chained together to create as many outputs as you need.



RDM - DMX Repeater

The RDM (Remote Device Management) is a 4 port DMX512 Splitter compatible with the RDM standard to provide DMX output to luminaires and other devices. DMX splitters are an essential requirement for most control systems, allowing multiple separate cable runs from a single DMX output and ensuring electrical isolation.

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	  Lador 36/38/40 • ULD-20031-4x22w RGBW-4x1133lm [13'] • ULD-20051-4x22w RGBW-4x1133lm [19.6'] • ULD-20071-4x22w RGBW-4x1133lm [26.2']	  Lador 37/39/41 • ULD-20041-4x28w RGBW-4x1600lm [13'] • ULD-20061-4x28w RGBW-4x1600lm [19.6'] • ULD-20081-4x28w RGBW-4x1600lm [26.2']		