

ULD-80041

Lador 32 Surface Downlight



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

B0 - U1 - G0

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)

Square surface wall-mounted architectural range. Four sizes of square artistic precision with wide range of beam distributions.

A range of square outdoor IP66 wall sconce that meets both aesthetic and functional applications. This cubic wall sconce range is available with 4 different sizes, starting with a small 2.4" square profile at , and increases proportionately to 3", 4.5" and 5.5" square. This glare free luminaire is available in Narrow beam, 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 a remote mount driver and has accessories that include; dichroic color filters, linear spread lens, honeycomb louvres and anti-glare visors.

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.

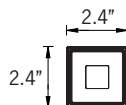
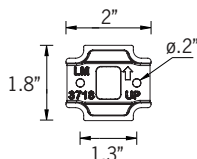
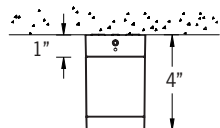
RGBW

4w LED 170 Lumens

IP65 • Suitable For Wet Locations

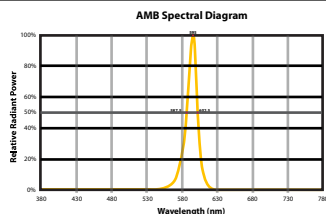
IK07 • Impact Resistant (Vandal Resistant)

Weight 1.5 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.

Additional Options (Consult Factory For Pricing)



SCDT Surface Conduit Decorative Trim

NOTE: This decorative trim does not function as a junction box. Wire connections should be made inside the luminaire



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]



A68391
STICK-DE3
[Nicolaudie]

PROJECT					DATE	
QUANTITY		TYPE		NOTE		

ORDERING EXAMPLE || ULD - 80041 - 4w - M - RGBW30 - 02 - 120/277v - Options

ULD-80041					
LAMP	BEAM	RGBW COLOR	FINISH COLOR	VOLTAGE	
4w LED 170 Lumens	M - Medium 34°	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		

- NAT - Natatorium Rated
F - Frosted Lens
AMB - Turtle Friendly Amber LED
SCDT - Surface Conduit Decorative Trim

- | | |
|-------------------------------|---------------------------------|
| A68391 - STICK-DE3 | A64791 - RDM DMX Splitter |
| A64491 - TPC + DMX Controller | A65191 - TPC Touch Panel |
| A64591 - POE Connect | A65391 - EDN Ethernet Data Node |
| A64691 - TPC + DMX 2 | 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



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:

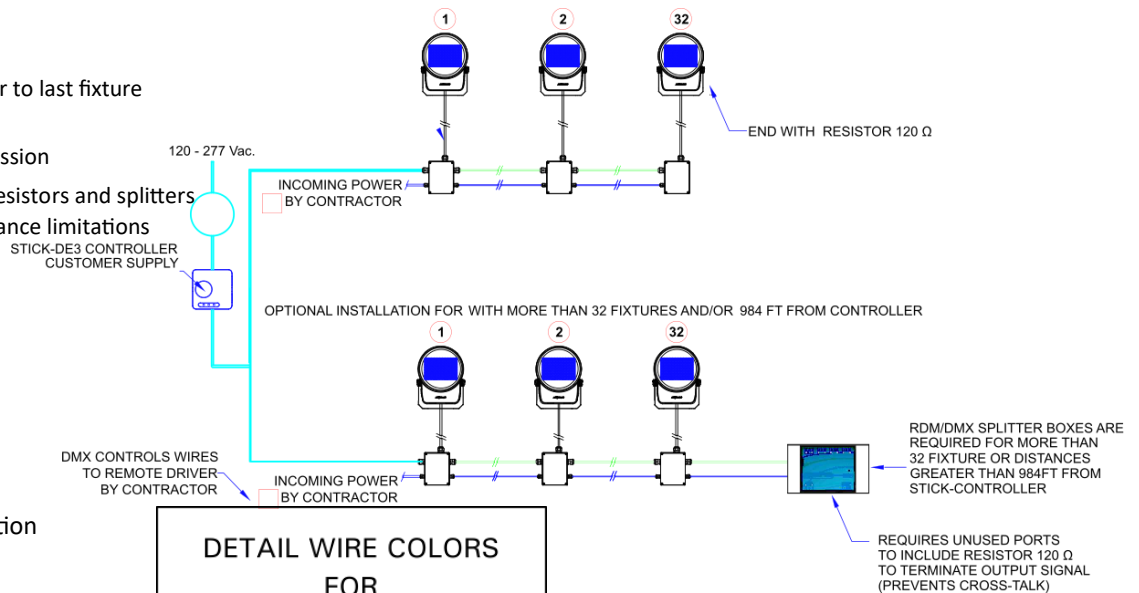
- Fixture quantity per run
- Distance between fixtures

Total cable length from controller to last fixture

This ensures:

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

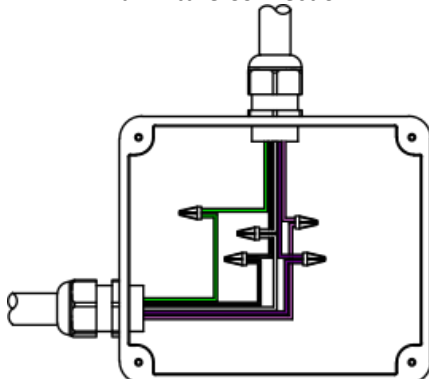
Compliance with fixture and distance limitations



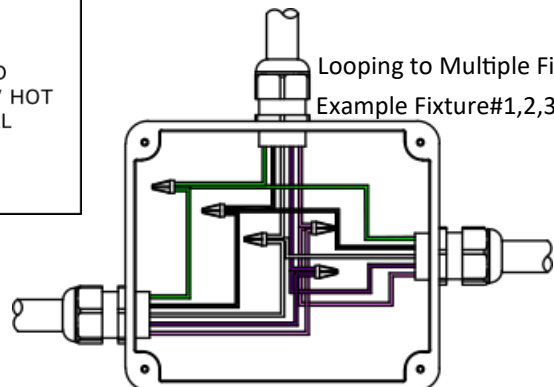
Single Fixture Connection

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



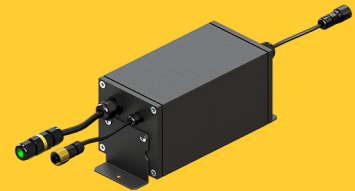
RDM DMX Splitters

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.

A64791

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-50002-6w RGBW-253lm	 Lador 2 • ULD-50011-11w-904lm • ULD-50012-13w RGBW-568lm	 Lador 3 • ULD-50021-21w-1975lm • ULD-50022-18w RGBW-1016lm	 Lador 4 • ULD-50031-39w-3568lm • ULD-50032-36w RGBW-1929lm	 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				