TURTLE FRIENDLY

RGBW

4x28w LED - 4x1600 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 55 lbs

GERMAN INNOVATION AWARD

13'

11.8"
23.6"
35.4"
47.2"

4" x 4"

5.7"
5.7"
4.7"
10.1"
80°
40°
350°

Top View

.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)

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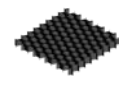
The Lador product family consists of; floodlights, wall sconces, ceiling mounted squares and cluster column event poles.

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]	A65391 EDN Ethernet Data Node [Pharos]

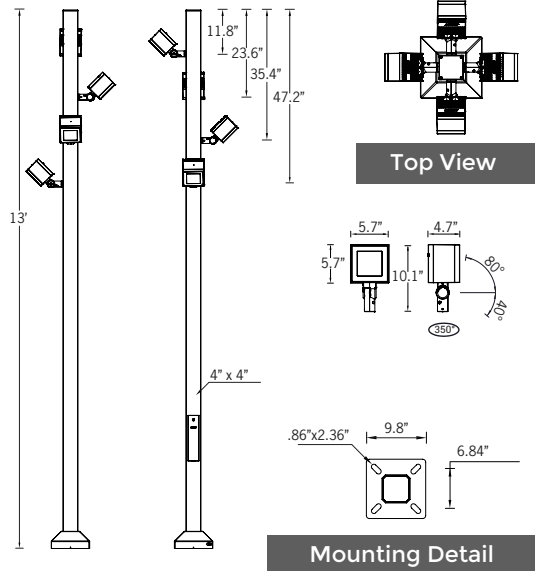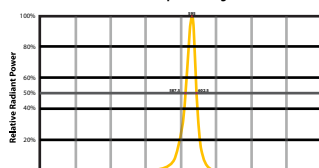| A64691 TPC Touch Screen and Controller DMX 2 [Pharos]	A64791 RDM DMX Splitter [Pharos]	A65191 TPC Touch Panel Station [Pharos]

A66991 LPCX Lighting Playback Controller X [Pharos]	A64991 CLOUD [Pharos]

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.

ULD-20041
Lador 37 Square Aluminum Cluster Column

LIGMAN LIGHTING USA

PROJECT		DATE	

QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || ULD - 20041 - 4x28w - M - RGBW30 - 02 - 120/277v - Options

ULD-20041

LAMP	BEAM	RGBW COLOR	FINISH COLOR	VOLTAGE
4x28w LED	N - Narrow 8°	RGBW30 - Warm White 3200K	01 - BLACK RAL 9011	120/277v
4x1600 Lumens	M - Medium 17°	RGBW40 - Neutral White 4000K	02 - DARK GREY RAL 7043	Other - Specify
	W - Wide 26°	RGBW65 - Cool White 6850K	03 - WHITE RAL 9003	
	VW - Very Wide 65°		04 - METALLIC SILVER RAL 9006	
	E - Elliptical 43° x 11°		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
A51414 - Linear Spread Lens

A52121 - Honeycomb Louvre
A53131 - Anti Glare Visor
AMB - Turtle Friendly Amber LED

A68391 - STICK-DE3
A64491 - TPC + DMX Controller
A64591 - POE Connect
A64691 - TPC + DMX 2

A64791 - RDM DMX Splitter
A65191 - TPC Touch Panel
A65391 - EDN Ethernet Data Node
A66991 - LPCX Lighting Playback
A64991 - CLOUD

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 us
Intertek

LiGMAN LIGHTING USA

pharos

TPC Touchscreen & EXT Controller DMX & DALI 1 Universe

The TPC (Touch Panel Controller) is an elegant touch screen lighting controller with a customisable, 4.3" capacitive touch panel, 512 channels of eDMX output and vast interfacing potential, all over a single Power-over-Ethernet (PoE) network connection.

The EXT is an extension for the Pharos TPC and together they form a standalone, mainspowered lighting controller with versatile output and show control options. The EXT provides local DMX and DALI output for the TPC, as well as power and other hardware interfaces.

A64491

TPC Touchscreen & LPC Controller DMX 2 Universe

The LPC (Lighting Playback Controller) is an all-in-one control solution for themed entertainment and LED lighting installations. It features individually controllable and independently running timelines and scenes. Supported fixtures include LEDs in any configuration (RGB, RGBW, tunable white), moving heads, yokes or scanners and fountain jets. Output includes DMX512, Art-Net, DALI & RDM.

A64691

POE Connect

The POE (Power-over-Ethernet Switch) provides a simple power and networking solution for four Power-over-Ethernet devices with two separate Ethernet uplink ports. It is perfect for connecting power and data between Pharos Controllers and Pharos Remote Devices.

A64591

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

TPS Touch Panel Station

The Pharos TPS (Touch Panel Station) is an elegant interface with a customizable, 4.3" capacitive touch screen, that works with any Pharos Controller

A65191

CLOUD

The CLOUD makes it easy to achieve remote control and management which is truly remote and totally secure.

Once connected, users can adjust hardware settings remotely, schedule tasks, control multiple projects, view system status, set remote user permissions, and more; through a standard internet connection without any additional hardware.

A64991

LPCX Lighting Playback Controller X

The Pharos LPC X (Lighting Playback Controller X) offers an extreme level of power and integration, making it an ideal solution for landmark lighting installations with significant channel counts. It integrates with the full range of Pharos products and offers an optional real-time video input
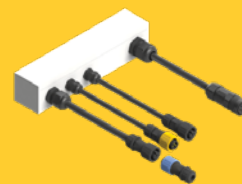
A66991

EDN Ethernet Data Node

The Pharos EDN (Ethernet Data Node) is a convenient and scalable solution, providing cost-effective Ethernetdistributed DMX ports for large control projects. The EDN is an easily configurable networking node that is specifically designed to add physical DMX ports to Pharos Controllers and integrates natively with the full Pharos range.

Extremely compact, it packs up to 20 DMX512 output ports into a 1U 19" form factor. For higher port count installations, nodes can be daisy-chained to provide as many physical DMX ports as you need.

EDNs are discoverable through Pharos Designer software and associated to a Controller to be seamlessly configured as part of your patch. Ports can be flexibly assigned to any controller in your project providing an elegant data distribution solution over an Ethernet network with minimal setup required.

A65391

DMX/RDM Decoder - 24 VDC - Remote IP65 Box

• Control mode: RGBW / RGB / Custom / Dimming
• Compatible with DMX protocol (ANSI E1.11) and RDM function (ANSI E1.20)
• Output power: 33 W x 4 Channels (132 W max)
• Input voltage: 12-36 VDC
• Output voltage: 7.5-33 VDC

A67091

LIGMAN
LIGHTING USA

NICOLAUDIE ARCHITECTURAL

SLESA-U9

The Nicolaudie SLESA-U9 is a standalone USB based DMX256 lighting controller with 20 scenes and 1 zone. This simple and reliable control allows dynamic lighting scenes to be programmed quickly and easily through the ESA2 software for uninterrupted independent operation.

A60491

SLESA-U11

The Nicolaudie SLESA-U11 is a standalone engine (NSA) offering incredible power based DMX2048+ lighting controller with 99 scenes 5 zones, extended triggers and 16-bit channels management. Intuitive backlit keyboard with 10 presets and zone selection. Lighting scenes can be programmed quickly and easily through ESAPRO2 software via USB or Ethernet connection and mobile applications.

A66891

DMX Splitter & Amplifier in IP Box

Digital signal distributor is used with DMX512 digital lighting control signal for amplification and 2 channel distribution output. Each input/output interface adopts high voltage isolation technology, applied to DMX512 signal via remote transmission attenuation after the plastic amplification processing. Complete electrical isolation is used between the input interface and the distribution between output interface.

A63991

DINA-DR MICRO DMX Lighting Controller & Power Adapter

The DINA-DR MICRO is the perfect standalone lighting controller for simple DMX installations. It offers an affordable and programmable solution to replace automatic controllers.

Delivered with a DIN rail adapter, the DINA-DR MICRO can be mounted in an electrical cabinet and affords significant ease of installation.

Create your static or dynamic lighting scenes with ESA Pro 2 software and upload them to the DINA-DR MICRO through its USB connection. Specifications: 10 scenes, 1 zone, 60 channels.

A67291

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

A68391

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']