FS-UMC-20011-RGBW

Macaron 2 Post Top

microVOS TECHNOLOGY

LIGMAN NORTH AMERICA

RGBW

48w LED
2719 Lumens

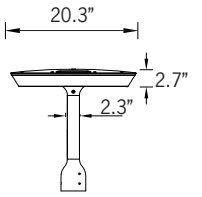
IP66
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

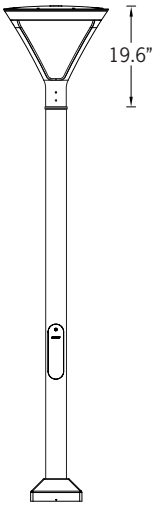
EPA - 1.00

Weight - 23.1 lbs

POLE NOT INCLUDED

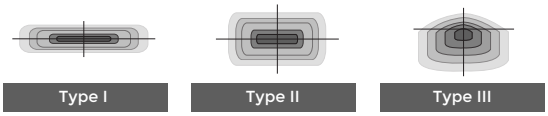


Fixture Detail



microVOS TECHNOLOGY

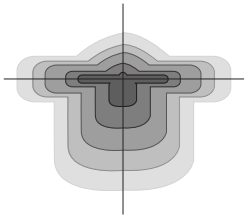
Ligman’s micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



Type I | Type II | Type III

Type IV | Type V

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



HYBRID
TYPE I & TYPE IV

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
B1 - U0 - G1

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.

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)

Modern, contemporary post top
Beautiful modern urban post top in either single or V-arm configuration, offering powerful street lighting and asymmetric beam performance choices.

A modern style die-cast aluminum post top decorative lantern with excellent downward light distribution that complies with dark sky requirements. Outstanding visual appeal and precision optical system gives very low glare rating, whilst reducing light pollution. This luminaire is available in two configurations, namely a single or v-arm option to suit aesthetic design requirements.

Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. Stainless steel screws. Durable silicone rubber gasket and clear tempered glass. Powder paint with high corrosion resistance with chemical chromatised protection. Integral control gear. Customer specifice wattages can be provided, please contact the factory for more information.

Available with a selection of dimmable integral electronic drivers, as well as a provision to install wireless lighting controls to integrate with building management systems. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly.

Additional Options (Consult Factory For Pricing)

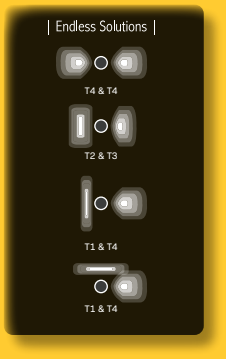
A90991
Zhaga Book 18

A90891
NEMA 7

LIGHCONNECT
IoT Ready Macaron

This luminaire is available with NEMA 7 or Zhaga Book 18 sockets for connection to intelligent lighting control systems.

SPLIT BEAM OPTIONS



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FS-UMC-20011-RGBW

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LIGMAN NORTH AMERICA

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || UMC - 20011 - 48w - T2 - RGBW30 - 02 - 120/277v - Options

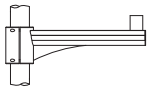
UMC-20011

LAMP	BEAM	RGBW COLOR	FINISH COLOR	VOLTAGE
48w LED 2719 Lumens	T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution T5 - Type V Distribution ME - Type ME Distribution **FOR SPLIT BEAM, SPECIFY BELOW**	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

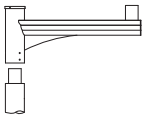
SPLIT BEAM LEFT	SPLIT BEAM RIGHT
T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution T5 - Type V Distribution ME - Type ME Distribution	T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution T5 - Type V Distribution ME - Type ME Distribution

ADDITIONAL OPTIONS

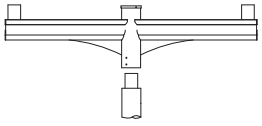
NAT - Natatorium Rated	A90991-U - Zhaga Book 18 Mounted On Top of Fixture
BS - Bird Spikes	A90991-D - Zhaga Book 18 Mounted Below Fixture
IHSS - Internal House Side Shield	A90891 - NEMA 7



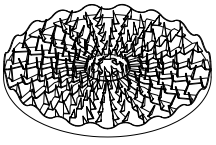
A20176
Aluminum Arm Pole Clamp

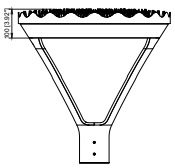


A20276
Aluminum Single Arm

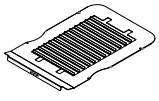


A20376
Aluminum Double Arm





BS
Bird Spikes



IHSS
Internal House Side Shield

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Intertek

RGBW by Ligman

LIGMAN NORTH AMERICA

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 start 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 the resistor inside the last fixture or at the last fixture's J Box. *Most fixtures include a factory installed resistor; some fixture types require on site installation depending on model.*
- Install the resistor between the DMX+ and DMX– signal lines.

System Design Guidelines

Fixture Count

- On 3 or More Fixtures: A termination resistor must be installed at the end of the run.
- On 5 or More Fixtures: Ligman may request additional layout details to verify system integrity.
- Fixtures with Dual DMX Addresses: These require more DMX channels, reducing the allowable number of fixtures per DMX run. (Refer to technical drawings for specifics.)

Maximum Distance

- Maximum Distance Without Booster: 984 ft (300 m) from the controller to the last fixture.
- Beyond This Limit: DMX/RDM splitters or boosters are required.

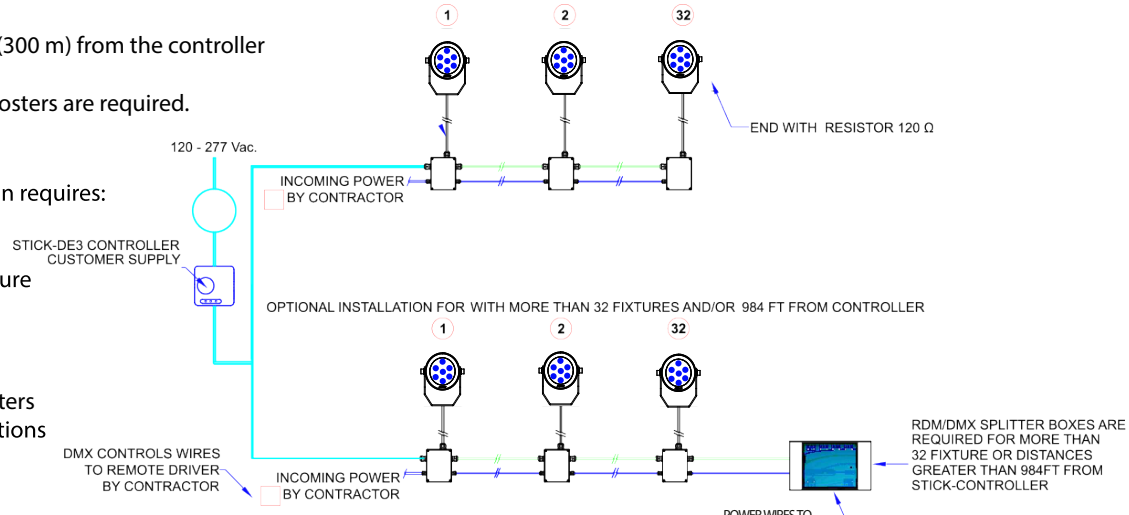
Custom Layouts

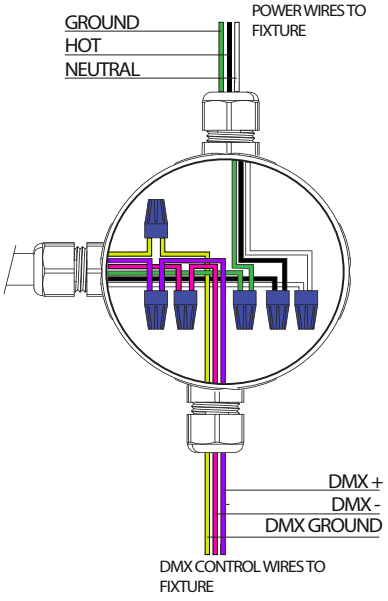
For non standard RGBW configurations, Ligman requires:

- Fixture quantity per run
- Distance between fixtures
- Total cable length from controller to last fixture

This ensures:

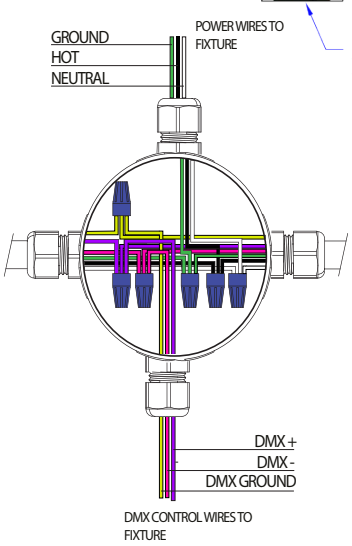
- Reliable DMX signal transmission
- Proper use of termination resistors and splitters
- Compliance with fixture and distance limitations





Detail Wire Colors For 5-Wire Cable

Green---------- Ground
Black ----------120-277v HOT
White----------Neutral
Purple----------DMX +
Pink ----------DMX -
Yellow----------DMX Drain Wire



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DMX Controls

LIGMAN NORTH AMERICA

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

A64691

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.

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.

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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.

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.

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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

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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.

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

DMX Controls

LIGMAN NORTH AMERICA

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.

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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.

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.

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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.

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

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