UMC-20002
Macaron 1 Post Top

microVos TECHNOLOGY

LIGMAN LIGHTING USA

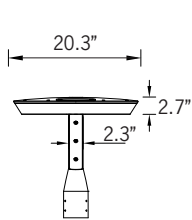**104w LED**
11542 –13949 Lumens

IP66
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

EPA - 1.00

Weight - 22 lbs

POLE NOT INCLUDED

TURTLE FRIENDLY

IoT Lightconnect

ida DARK SKY APPROVED

20.3"
2.7"
2.3"
19.6"

Fixture Detail

SC76
Ø2.99"x3.5"
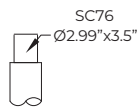
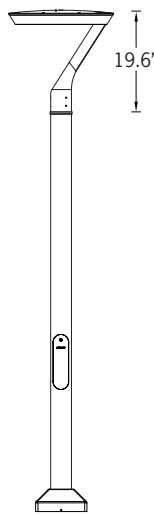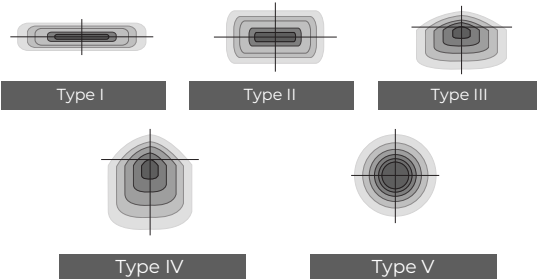**Tenon Detail**

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
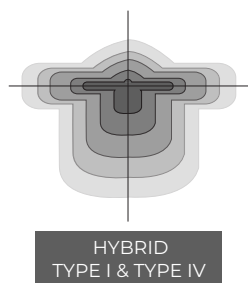
Construction

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
B2 - U0 - G2

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 restant)
• 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)

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 specific 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.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected.

Additional Options (Consult Factory For Pricing)

| A90991 Zhaga Book 18 | A90891 NEMA 7 | RGBW RGBW Macaron |

SPLIT BEAM OPTIONS

T3 RIGHT   T4 LEFT

| Endless Solutions |
T4 & T4
T2 & T3
T1 & T4
T1 & T4

LIGHCONNECT
IoT Ready Macaron

This luminaire is available with NEMA 7 or Zhaga Book 18 sockets for connection to intelligent lighting control systems.
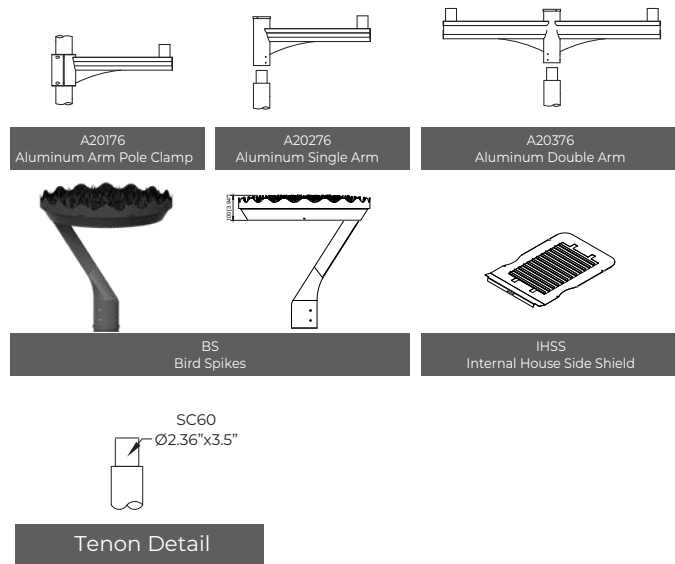
UMC-20002
Macaron 1 Post Top

microVos TECHNOLOGY

LIGMAN LIGHTING USA

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || UMC - 20002 - 104w - T2 - W30 - 02 - 120/277v - Options

UMC-20002				
LAMP	**BEAM**	**LED COLOR**	**FINISH COLOR**	**VOLTAGE**

LAMP
104w LED
11542 - 13949 Lumens

BEAM
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

LED COLOR
W27 - 2700K
W30 - 3000K
W35 - 3500K
W40 - 4000K

FINISH COLOR
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

VOLTAGE
120/277v
Other - Specify

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

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

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
A90891 - NEMA 7
BS - Bird Spikes
RGBW - RGBW Macaron
SC60 - SC60 Tenon Detail

OS - FSP Occupancy Sensor [See last page]
FSIR - Occupancy Sensor Remote Programmer [See last page]
A90991-U - Zhaga Book 18 Mounted On Top of Fixture
A90991-D - Zhaga Book 18 Mounted Below Fixture
AMB - Turtle Friendly Amber LED
IHSS - Internal House Side Shield

A20176 Aluminum Arm Pole Clamp	A20276 Aluminum Single Arm	A20376 Aluminum Double Arm

BS Bird Spikes	IHSS Internal House Side Shield

SC60 Ø2.36"x3.5"

Tenon Detail

More Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak
Beech
Walnut
Bamboo
Pine
Birch
Cherry
Carbon
Chestnut
Galvanized
Mahogany
Steel

Example: Inspired by Nature Finish

ETL Intertek

Macaron Product Family

Macaron 1
- UMC-20001-81w-7263lm
- UMC-20002-104w-14374lm

Macaron 2
- UMC-20011-81w-7263lm
- UMC-20012-104w-14374lm

Macaron 3
- UMC-98001-104w-14374lm

Macaron 4
- UMC-10001-22w-2854lm [23.6"]
- UMC-10002-31w-3904lm [23.6"]
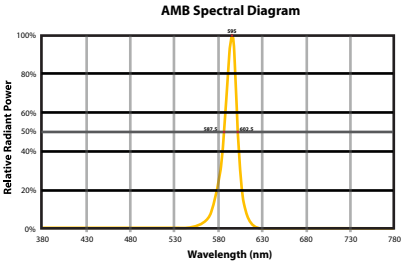- UMC-10003-46w-5021lm [23.6"]

Macaron 5
- UMC-10011-22w-2854lm [39.3"]
- UMC-10012-31w-3904lm [39.3"]
- UMC-10013-46w-5021lm [39.3"]

Macaron 8
- UMC-20041-22w-2854lm

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.
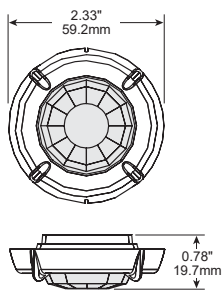
Ligman provides integrated photocell control using the wattstopper legrand FSP-211B.
These units are installed inside the fixture housing with only the external lenses being visible
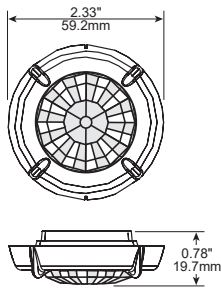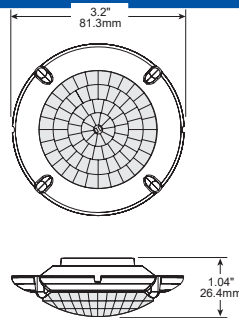
FSP-211B

Models

FSP-211B, 120-277 VAC

FSP-221B, 100-347 VAC

Specifications and Features

Three interchangeable lenses for mounting between 8' and 40'

Remote setup and adjustment with handheld wireless configuration tool

Adjustable high and low modes (high: 0 to 10V, low: off, 0 to 9.8V)

Adjustable time delay (30 seconds, 1 to 30 minutes)

Adjustable cut off delay (none, 1 to 59 minutes, 1 to 5 hours)

Adjustable sensitivity/service mode (low, med, max; on-fix, off-fix)

Adjustable setpoints: hold off setpoint (none, 1 to 250 fc, auto); photocell on/off setpoint (1 to 250 fc)

Adjustable ramp and fade times (1 to 60 seconds)

Operating temperature: -40°F to +167°F (-40°C to +75°C)

IP66 rated

Five year warranty

Dimensions of Lens Options

2.33"
59.2mm

2.33"
59.2mm

3.2"
81.3mm

0.78"
19.7mm

0.78"
19.7mm

1.04"
26.4mm

FSP-L2 dimensions

FSP-L3 dimensions

FSP-L7 dimensions

Factory Defaults

High mode:	10V
Low mode:	1V
Time delay:	5 minutes
Cut off:	1 hour
Setpoint:	Disabled
Sensitivity:	Max
Ramp up time:	Disabled
Fade down time:	Disabled
Photocell On/Off:	Disabled

Product Overview

The FSP-221B is a family of passive infrared (PIR) outdoor sensors that raise or lower the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient.

The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.
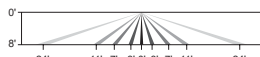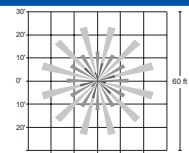
The sensors control 0-10VDC or nondimming LED drivers or ballasts.

The low voltage FSP-201B may be used with dim-to-off drivers or ballasts.
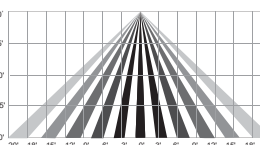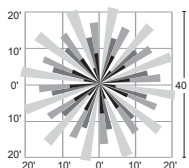
Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of sensor parameters including high/low mode, sensitivity, time delay, cut off and more.

The FSIR-100 can read current parameter settings, and stores up to six sensor parameter profiles to speed commissioning of multiple sensors.
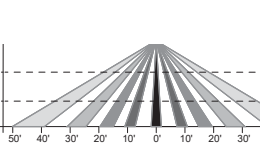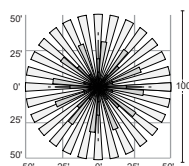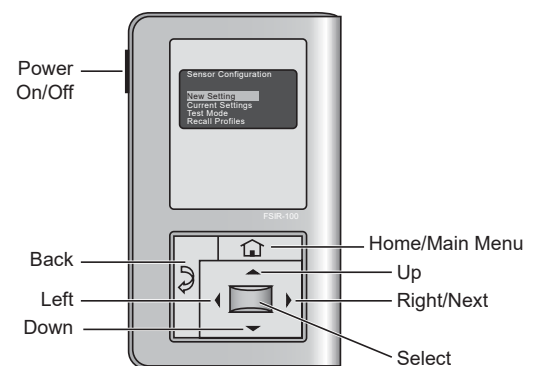
Coverage

30'
20'
10'
0'
10'
20'
60 ft
20' 10' 0' 10' 20'

0'
8'
24' 11' 7' 3' 0' 3' 7' 11' 24'

FSP-L2 top and side coverage patterns

20'
10'
0'
10'
20'
40 ft
20' 10' 0' 10' 20'

0'
5'
10'
15'
20'
20' 18' 15' 12' 9' 6' 3' 0' 3' 6' 9' 12' 15' 18' 20'

FSP-L3 top and side coverage patterns

50'
25'
0'
25'
50'
100 ft
50' 25' 0' 25' 50'

0'
15'
27'
40'
50' 40' 30' 20' 10' 0' 10' 20' 30' 40' 50'

FSP-L7 top and side coverage patterns

Power On/Off

Sensor Configuration
New Setting
Current Settings
Test Mode
Recall Profiles

FSIR-100

Back

Left

Down

Home/Main Menu

Up

Right/Next

Select

The **FSIR-100** is a convenient handheld remote tool for sensor setting.
Adjustable settings can be changed as needed for specific applications.

Catalog #	Color	Description
☐ FSP-L2	White/Grey/Black/Brown The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim)	360° lens, maximum coverage 48' diameter from 8' height
☐ FSP-L3	White/Grey/Black/Brown The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim)	360° lens, maximum coverage 40' diameter from 20' height
☐ FSP-L7	White/Grey/Black/Brown The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim)	360° lens, maximum coverage 100' diameter from 40' height
☐ FSIR-100	Black	Remote Handheld Configuration Tool