UVK-90021
Vekter 15 Quad Head Streetlight

LIGMAN LIGHTING USA

4x20w LED
4x2446 Lumens

Weight 43.4 lbs

IP65
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

EPA – 7.24

ida DARK SKY APPROVED 2016

TURTLE FRIENDLY

POLE NOT INCLUDED

35.3"
9.6"
10.2"
13.3"
3.1"
45°
Ø2.9"x3.5"

Tenon 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
B2 - U0 - 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.

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)

Flexible column-mounted floodlighting and area luminaires. Sleek, angular, technical and powerful professional lighting solutions.

A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements. This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.

The Vekter can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture. Type V distributions in medium, wide, very wide & extra wide are also available.

These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting. This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.

Available with a selection of integral electronic and dimmable 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 and luminaire fix mounted (+/- 15° allowable to permit leveling).

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LIGMAN
LIGHTING USA
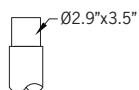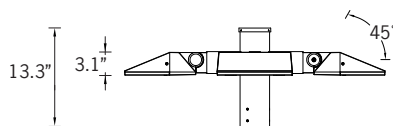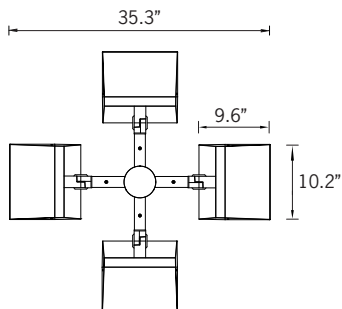
PROJECT		DATE	
QUANTITY		**TYPE**	**NOTE**	

ORDERING EXAMPLE || UVK - 90021 - 4x20w - T2 - W30 - 02 - 120/277v - Options

UVK-90021

	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
	4x20w LED	T2 - Type II Distribution	W27 - 2700K	01 - BLACK RAL 9011	120/277v
	4x2446 Lumens	T3 - Type III Distribution	W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
		T4 - Type IV Distribution	W35 - 3500K	03 - WHITE RAL 9003	
		M - Medium 31°	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
		W - Wide 53°		05 - MATTE SILVER RAL 9006	
		VW - Very Wide 66°		06 - LIGMAN BRONZE	
		EW - Extra Wide 110°		07 - CUSTOM RAL	

ADDITIONAL OPTIONS

DIM - 0-10v Dimming

NAT - Natatorium Rated

WLC - Wireless Lighting Controls

GFCI - GFCI Box

AMB - Turtle Friendly Amber LED

HSS - House Side Shield

F - Frosted Lens

OS - FSP Occupancy Sensor [See last page]

FSIR - Occupancy Sensor Remote Programmer [See last page]

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

AMB Spectral Diagram
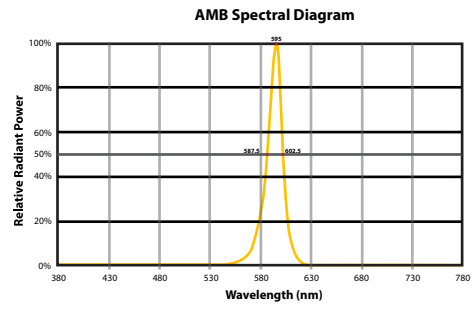
Narrow-Spectrum Amber LEDs
Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

OS Occupancy Sensor

cETLus
Intertek

Vekter Product Family

Vekter 1
- UVK-30001-20w-2446lm
- UVK-30002-28w-3330lm

Vekter 2
- UVK-30003-37w-5143lm
- UVK-30004-54w-6954lm

Vekter 3
- UVK-10001-20w-2473lm
- UVK-10002-28w-3330lm

Vekter 4
- UVK-10011-2x20w-2x2473lm
- UVK-10012-2x28w-2x3330lm

Vekter 5
- UVK-90001-37w-5143lm
- UVK-90002-54w-6954lm

Vekter 6
- UVK-90011-2x37w-2x5143lm
- UVK-90012-2x54w-2x6954lm

Vekter 7
- UVK-30011-20w-2473lm
- UVK-30012-28w-3330lm

Vekter 8
- UVK-30031-37w-5143lm
- UVK-30032-54w-6954lm

Vekter 9
- UVK-30021-20w-2473lm
- UVK-30022-28w-3330lm

Vekter 10
- UVK-30041-37w-5143lm
- UVK-30042-54w-6954lm

Vekter 11 - 13.1'
- UVK-20001-20w-2473lm
- UVK-20002-28w-3330lm

Vekter 12 - 13.1'
- UVK-20003-37w-5143lm
- UVK-20004-54w-6954lm

Vekter 13 - 13.1'
- UVK-20011-2x20w-2x2473lm
- UVK-20012-2x28w-2x3330lm

Vekter 14 - 13.1'
- UVK-20013-2x37w-2x5143lm
- UVK-20014-2x54w-2x6954lm

Vekter 15
- UVK-90021-4x20w-4x2473lm
- UVK-90022-4x28w-4x3330lm

Vekter 16
- UVK-90031-4x37w-4x5143lm
- UVK-90032-4x54w-4x6954lm

Vekter 17 - 19.6'
- UVK-20021-20w-2473lm
- UVK-20022-28w-3330lm

Vekter 18 - 19.6'
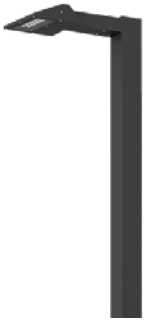- UVK-20023-37w-5143lm
- UVK-20024-54w-6954lm

Vekter 19 - 19.6'
- UVK-20031-2x20w-2x2473lm
- UVK-20032-2x28w-2x3330lm

Vekter 20 - 19.6'
- UVK-20033-2x37w-2x5143lm
- UVK-20034-2x54w-2x6954lm

Vekter 25
- UVK-90041-20w-2473lm
- UVK-90042-28w-3330lm

Vekter 26
- UVK-90051-2x20w-2x2473lm
- UVK-90052-2x28w-2x3330lm

Vekter 27
- UVK-90061-37w-5143lm
- UVK-90062-54w-6954lm

Vekter 28
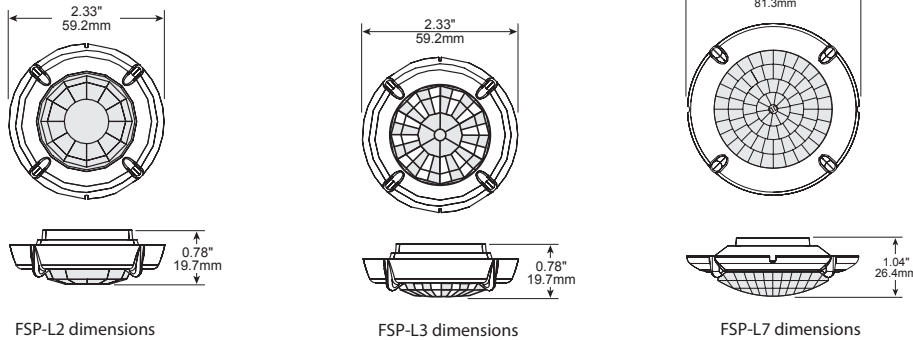- UVK-90071-2x37w-2x5143lm
- UVK-90072-2x54w-2x6954lm

HIGH/LOW/OFF PIR OUTDOOR PHOTO/MOTION SENSOR LIGMAN LIGHTING USA
IP66 - legrand® Integrated photocell

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

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

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

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.
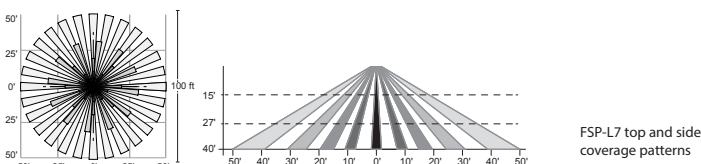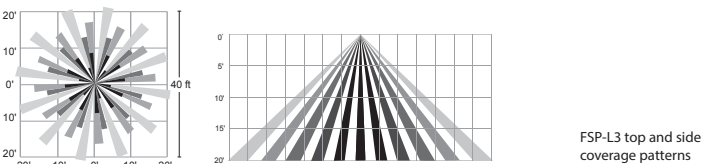
The sensors control 0-10VDC or nondimming LED drivers or ballasts.

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.
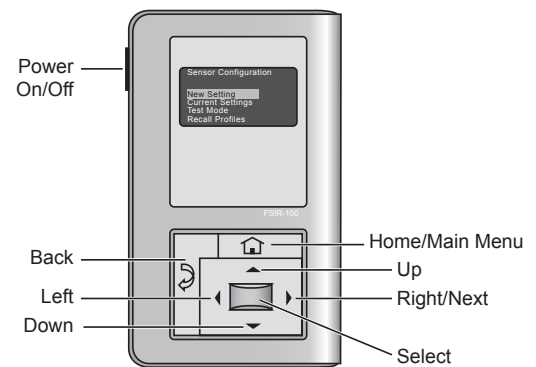
Coverage

30'
20'
10'
0'
10'
20'

20' 10' 0' 10' 20'

60 ft

0'
8'

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

FSP-L2 top and side coverage patterns

20'
10'
0'
10'
20'

20' 10' 0' 10' 20'

40 ft

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'

50' 25' 0' 25' 50'

100 ft

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