

VSC-II-TS LED Specifications

Wildlife Certified

Area - Site - Commercial - Outdoor - Wall



The VSC-II LED wall mount Series continues the unique contemporary design that is inspired by the V-Collection light series. It combines LED performance and advanced LED thermal management technology and provides lighting that is energy efficient and aesthetically pleasing.

The LED performance and the driver's life are maximized by enclosing them in two separate cast aluminum housings. Easy access for mounting and maintenance.

The LED light assemblies come with 16 to 48 LEDs. Our Turtle Safe and Wildlife Certified LEDs operates at 590nm. Seventeen optical distribution patterns are available.

With integrated controls, the VSC-II ensures optimal lighting coverage while minimizing energy consumption.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The VSC-II LED Series is an exceptional choice for office complexes, schools, commercial buildings, and many architectural projects.

Project Name:

Catalog Number:

Type:

Date:

Location:

The Wildlife Lighting Program was developed by the Department of the Interior's U.S. Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission to address light pollution issues in ecologically sensitive areas while ensuring human safety and security.



MODEL	OPTICS		LEDs	CURRENT	WAVELENGTH
VSC-II	T1 Type 1 T2 Type 2 T3 Type 3 T3R Type 3 Round T3W Type 3 Wide T3LG Type 3 Low Glare T4 Type 4 T4A Type 4 Automotive T4FT Type 4 Forward Throw T4LG Type 4 Low Glare	T5 Type 5 T5W Type 5 Wide T5WW Type 5 Extra Wide T5LG Type 5 Low Glare FN Flood Narrow FM Flood Medium FW Flood Wide	16LD 32LD 48LD	3 350mA 5 530mA	TS 590 nm
VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	SHIELD OPTIONS	OPTIONS
UNV 120-277V 8 347V 5 480V	WM Wall Mount VCB Conduit Box Mounting Plate with (2) 1/2" Threaded Conduit Holes	BZ Bronze BK Black SBK Smooth Black WH White SWH Smooth White GP Graphite GY Grey SL Silver Metallic GN Tennis Green FG Forest Green ZFP Zinc-Free Primer Coat CC Custom Color	PC-120 PC-208 PC-240 PC-277 Button Type Photocell DIM 0-10v Dimming Driver No Controls DTO Dim to Off Driver D4i 4Di DALI Driver WSP6-L2 WSP6-L3 WSP6-L7 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height WSC-8 WSC-20 WSC-40 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height * The WSC option will require (1) FSIR 100 remote for programming Z10 or Z18 Zhaga 4 Pin Receptacle VWC Visionaire Wireless Control	CLS Backside cutoff shield * Not to be used with KM RCLS Rightside cutoff shield * Not to be used with KM LCLS Leftside cutoff shield * Not to be used with KM BHS House shield	UP Up-Light Orientation * Not available with motion sensor or EBPL ROT-R Rotated Optics Right Side ROT-L Rotated Optics Left Side BBG Bird Spikes EBPL Emergency Battery Pack * Universal Voltage only Rated for 10° to 50° C * Not available in Up Light Orientation EBPL-CLD Cold Weather Emergency Battery Pack * Universal Voltage only Rated for -20° to 50° C * Not available in Up Light Orientation BP Back Plate BAA Buy America(n) Act Compliant BABA Build America Buy American

Heatsink

Cast aluminum heatsink with integral cooling fins for thermal management.

Mounting/Driver Compartment

Durable two-piece cast aluminum driver compartment utilizes a quick mount/set screw mounting for ease of maintenance and sealed with a one-piece gasket.

- Up-Light Orientation

Thermal Management

The VSC-II series provides excellent thermal management by mounting the LEDs to the substantial heat sink of the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The VSC-II series LEDs have been determined to last 100,000+ hours in 25° C environments when driven at 530 mA.

Optical System

The highest lumen output LEDs are utilized in the VSC-II series. Seventeen IES distribution Types are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.

- LED Wavelength 590nm

Quali-Guard® Finish

The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 mils thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.

- Finish is guaranteed for five (5) years.

Electrical Assembly

The VSC-II LED series is supplied with a choice of 350, or 530 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Rated for -40°C operations.
- Power factor of 90%.
- THD less than or equal to 20%
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com

Options

- Wattstopper Plus
- Wattstopper FSP-211 Motion Sensor/Control
- Dimming Driver
- Dim To Off Driver
- Button Type Photocell
- Zhaga 4 Pin Receptacle
- Cut-Off Louver Shield
- Up-Light Orientation
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Control
 - Enables high end trim
 - Based on Zigbee wireless communication protocol
- Back Plate
- Rotated Optics
- Bird Spikes
- BAA / BABA

Listings

- The VSC-II is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough
- IDA Certification
- ANSI Certification
- Turtle safe
- Pangealink
- Certified Wildlife Lighting

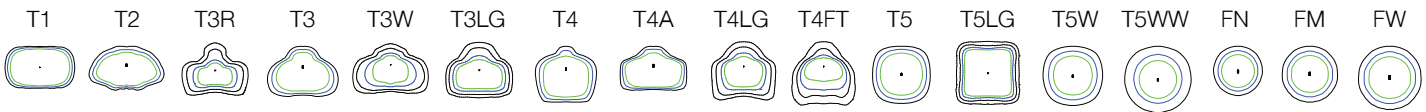


3000K or lower must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

Motion Sensor Default Settings									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Maximum	4ft	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60Dec

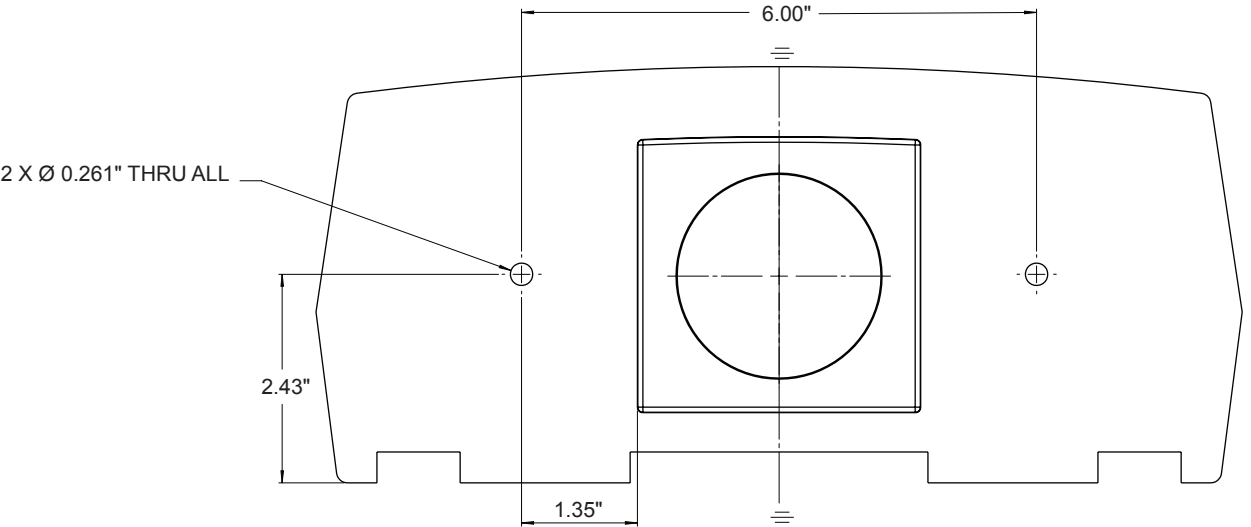
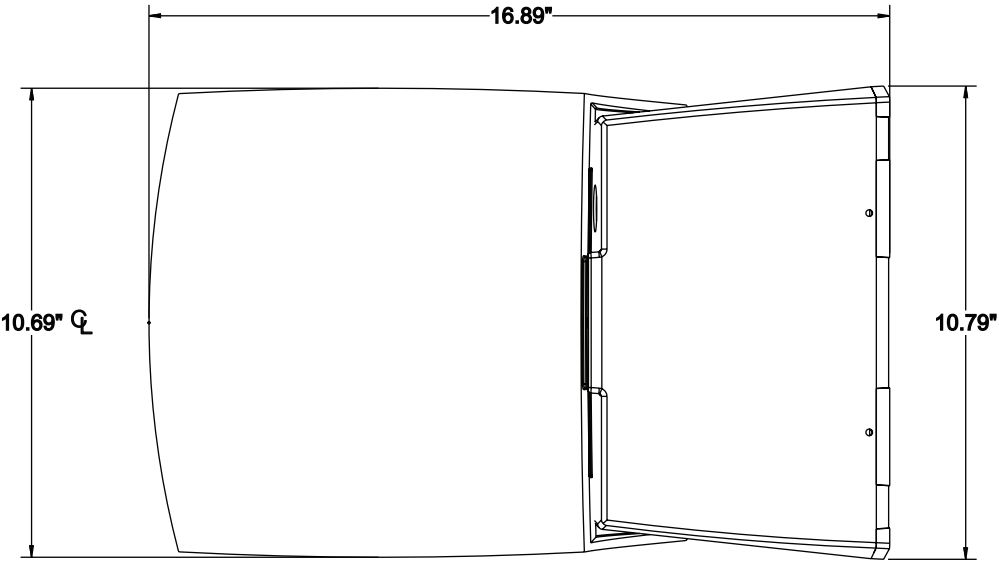
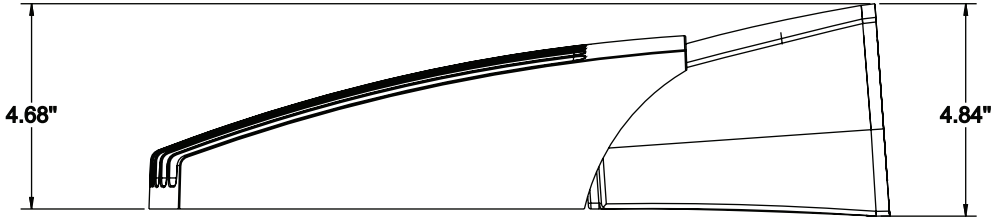
* Settings can be field modified with the FSIR-100 Programming remote

Photometric Optical Summary



Dimensions

Width:	VSC-II 10.8"
Depth:	VSC-II 17"
Height:	VSC-II 5"
Weight:	20 LBS



WATTSTOPPER PLUS

FSP-600 Series

The FSP-600 series by Wattstopper PLUS is an integrated luminaire level lighting controller and sensor for indoor/outdoor lighting applications that require networked wireless control. The FSP-600 is designed to integrate directly into exterior, high bay, parking garage, and general site lighting solutions. It is a passive infrared (PIR) sensor and closed loop photosensor.

The FSP-600 series design intends to reduce installer labor time and make on-site start up easy for technicians.

Once commissioned and paired to a Wattstopper PLUS network, the devices can measure both motion and daylight contribution in order to automatically switch or dim lighting. It also provides the ability to communicate to other fixtures in the space without any front-end devices.

The Wattstopper PLUS FSP-600 series is available in a few different options including: internal, external straight nipple, and external drop nipple. Sensor lens options sold separately and should be ordered based on designed mounting height and desired finish.

FSP-621



FSP-200 Series

The FSP-200 series sensors provide multi-level control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles. The FSP-200 series is available in two different voltage configurations adding flexibility to your fixture design or project.

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The FSIR-100 is also used to initiate automatic calibration of the FSP-2x1B ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at a low level when there is sufficient daylight. The wireless tool stores up to six sensor parameter profiles to speed configuration of multiple sensors.

FSP-211



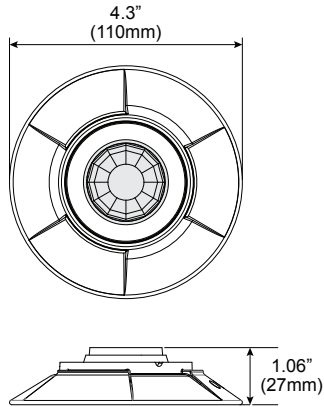
FSP-221



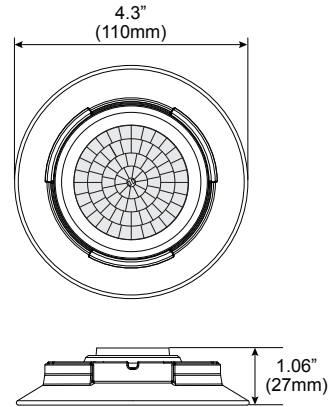
Lens with Shroud Dimensions

The FSP-Lx-S models include a shroud, which blocks high-angle light coming from the fixture, to improve photocell performance. With the shroud attached, the dimensions for all three lenses are identical

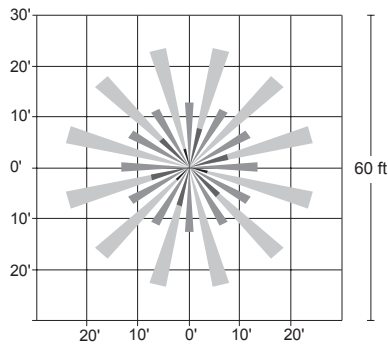
FSP-L2-S and FSP-L3-S



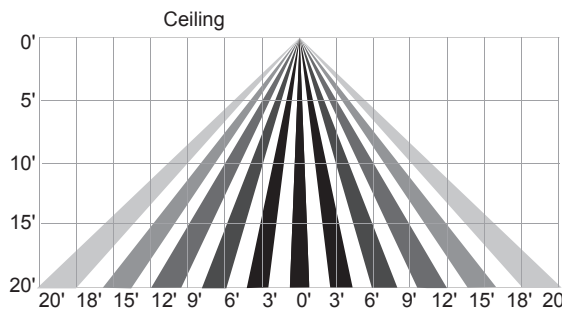
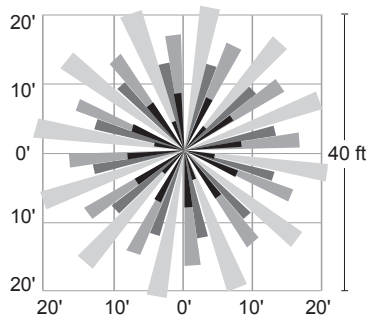
FSP-L7-S



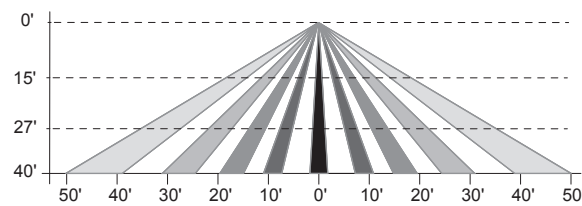
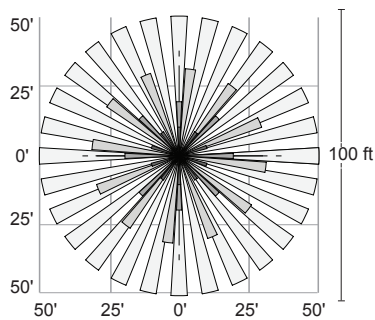
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

TS AMBER LUMENS																				
MOD-EL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T4FT	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
VSC-II	16	350	1242	1198	1236	1220	1234	1240	1219	1285	1236	1255	1235	1248	1187	1122	1307	1297	1210	13.3
		530	1568	1512	1561	1540	1558	1565	1540	1623	1561	1585	1560	1576	1498	1417	1651	1638	1528	21.1
	32	350	2484	2395	2472	2439	2468	2479	2439	2571	2473	2511	2471	2496	2373	2244	2615	2595	2421	26.6
		530	3137	3024	3122	3080	3116	3130	3080	3246	3122	3170	3120	3152	2997	2833	3302	3277	3056	42.1
	48	350	3726	3593	3708	3659	3702	3719	3658	3856	3709	3766	3706	3744	3560	3366	3922	3892	3631	39.9
		530	4705	4536	4683	4620	4674	4696	4619	4869	4683	4756	4680	4728	4495	4250	4953	4915	4585	63.2

EFFICACY (LM/W) TS																				
MOD-EL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T4FT	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
VSC-II	16	350	1242	1198	1236	1220	1234	1240	1219	1285	1236	1255	1235	1248	1187	1122	1307	1297	1210	13.3
		530	1568	1512	1561	1540	1558	1565	1540	1623	1561	1585	1560	1576	1498	1417	1651	1638	1528	21.1
	32	350	2484	2395	2472	2439	2468	2479	2439	2571	2473	2511	2471	2496	2373	2244	2615	2595	2421	26.6
		530	3137	3024	3122	3080	3116	3130	3080	3246	3122	3170	3120	3152	2997	2833	3302	3277	3056	42.1
	48	350	3726	3593	3708	3659	3702	3719	3658	3856	3709	3766	3706	3744	3560	3366	3922	3892	3631	39.9
		530	4705	4536	4683	4620	4674	4696	4619	4869	4683	4756	4680	4728	4495	4250	4953	4915	4585	63.2

MODEL			# LEDs	Current (mA)	BUG TS																																	
					T1		T2		T3R		T3		T3W		T3LG		T4		T4A		T4LG		T4FT		T5		T5LG		T5W		T5WW		FN		FM		FW	
VSC-II	16	350	1	0	1	0	0	1	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
		530	1	0	1	1	0	1	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	
	32	350	2	0	2	1	0	1	1	0	1	1	0	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	2	0	1	
		530	2	0	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	3	0	1	2	0	
	48	350	2	0	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	3	0	1	3	0	1
		530	3	0	3	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	1	0	2	0	1	2	0	1	3	0	1	3	0	1	3	0	1	

VSC-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VSC-II-16LD-3	13	0.11	0.06	0.05	0.05	0.04	0.03
VSC-II-16LD-5	21	0.18	0.10	0.09	0.08	0.06	0.04
VSC-II-32LD-3	27	0.23	0.13	0.11	0.10	0.08	0.06
VSC-II-32LD-5	42	0.35	0.20	0.18	0.15	0.12	0.09
VSC-II-48LD-3	40	0.33	0.19	0.17	0.14	0.12	0.08
VSC-II-48LD-5	63	0.53	0.30	0.26	0.23	0.18	0.13
ELECTRICAL LOAD DATA IS ESTIMATED							

