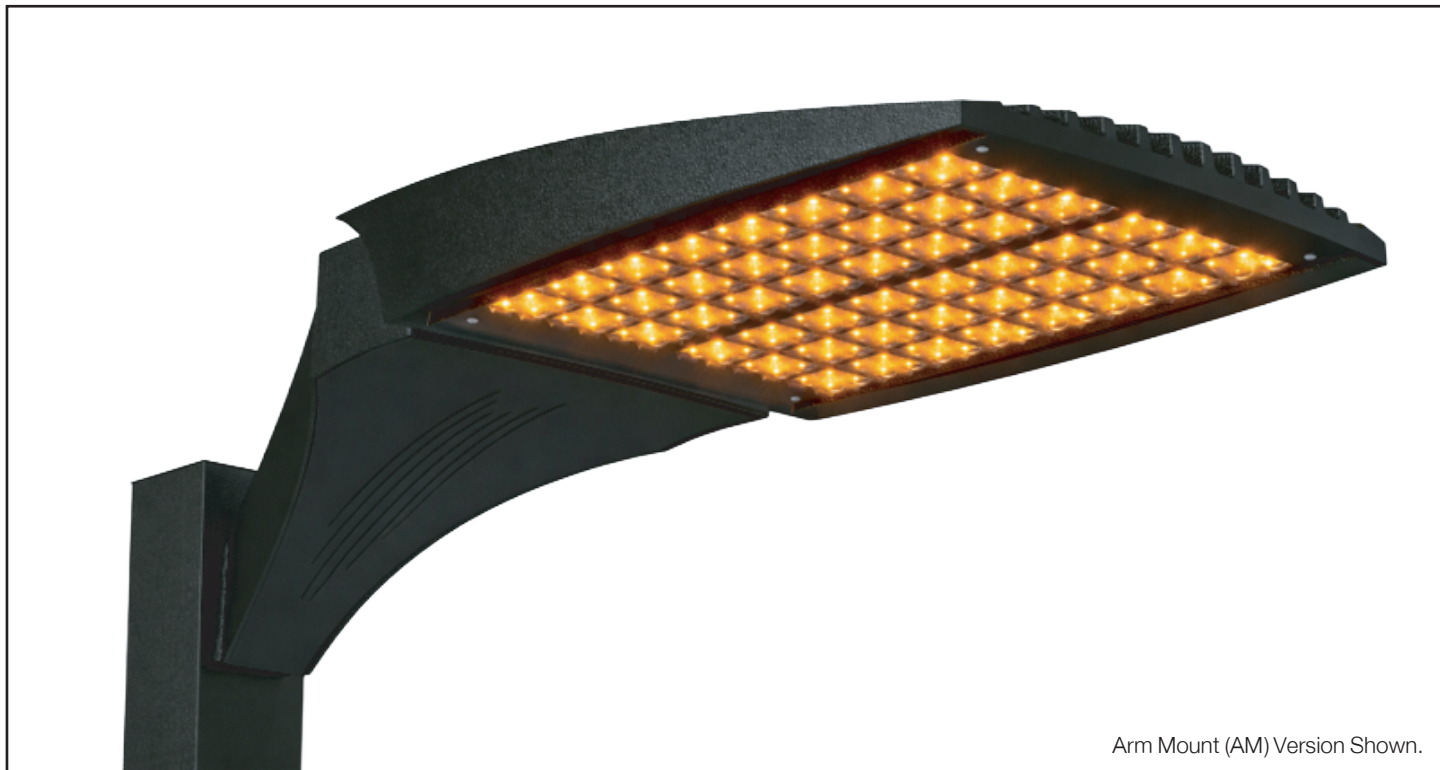


VLX-1-TS LED Specifications

Wildlife Certified

Area - Site - Commercial - Outdoor



Arm Mount (AM) Version Shown.

The VLX LED Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines LED performance and advanced LED thermal management technology and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

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

The LED light assemblies come with 96 to 192 LEDs. Seventeen optical distribution patterns are available. Our Turtle Safe LED operates at 590 nm.

With integrated controls, the VLX 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 VLX LED series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting 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
VLX-1	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	96LD 128LD 160LD 192LD	3 350mA 5 530mA	TS 590 nm

VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	SHIELD OPTIONS	OPTIONS
UNV 120-277V 8 347V 5 480V	AM Arm Mount Round Pole Plate Adaptors (RPP) are to be ordered separately. WM Wall Mount * Requires BAWP BAWP to be ordered separately.	BZ Bronze BK Black GY Grey SBK Smooth Black WH White SWH Smooth White GP Graphite GY Grey SL Silver Metallic ZFP Zinc-Free Primer Coat CC Custom Color	PCR-120 PCR-208 PCR-240 PCR-277 PCR-347 PCR-480 Photocell & Receptacle 7PINPER 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver DIM 0-10v Dimming Driver No Controls DTO Dim to Off Driver D4i 4Di DALI Driver WSP6-L2 WSP6-L3 WSP6-L7 8' 9-20' 21-40' Mounting Mounting Mounting Height Height Height WSC-8 WSC-20 WSC-40 8' 9-20' 21-40' Mounting Mounting Mounting Height Height Height * The WSC option will require (1) FSIR 100 remote for programming TL7 7-PIN Twist-lock Wireless Control Z10 or Z18 Zhaga 4 Pin Receptacle VWC Visionaire Wireless Control	CLS Backside cutoff shield RCLS Rightside cutoff shield LCLS Leftside cutoff shield BHS House shield	RPP-3" RPP-4" RPP-5" Round Pole Plate Adapter UPMA-S Universal Square Pole Mount Adapter UPMA-R Universal Round Pole Mount Adapter BAWP Cast Wall Plate ROT-R Rotated Optics Right Side ROT-L Rotated Optics Left Side BBG Bird Spikes BAA Buy America(n) Act Compliant BABA Build America Buy American

Heatsink

Die cast aluminum heatsink with integral cooling fins for thermal management.

Mounting Arm/Driver Compartment

Durable two-piece die cast aluminum driver compartment utilizes a tool-less thumb screw for ease of maintenance and sealed with a one-piece silicone gasket.

- Meets ANSI C136.31-2010 1.5G Vibration Standards.

Thermal Management

The VLX 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 VLX series LEDs have been determined to last 90,000+ hours in 25° C environments when driven at 350 mA.

Optical System

The highest lumen output, LEDs are utilized in the VLX Series. LED light engines come in multiples of 32 LEDs.

- Available with 16 IES distribution patterns
- 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.
- Optional Zinc-Free Primer - Recommended within three miles of the ocean.
- Finish is guaranteed for five (5) years.

Electrical Assembly

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

- Rated for -40 °C to +55 °C operations.
- Power factor of 90%.
- THD less than or equal to 20% .
- 10 kV surge protector supplied as standard.
- 0-10v Dimming Driver supplied as standard.
- Terminal block supplied as standard.

Warranty

Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit visionairelighting.com.

Options

- Wattstopper Plus
- Wattstopper FSP-211 Motion Sensor/Control
- Dimming Driver
- Dim To Off Driver
- Photocell & Receptacle
- Photo Receptacle (PER) (5/7PINPER) (PCR)
- Motion Sensor FSP-211 Title 24 Compliant
- 7-Pin Twist-lock wireless controll
- Back House Shield
- Cut-Off Louver Shield
- Round pole plate adaptor
- Zhaga 4 Pin Receptacle
- Wireless Controls
- Bird Spikes
- BAA / BABA

Listings

- The VLX Series is cUL Listed
- Powder Coated Tough.
- IDA Certification
- IP65 Rated
- ANSI
- Turtle safe
- Pangealink
- Certified Wildlife Lighting



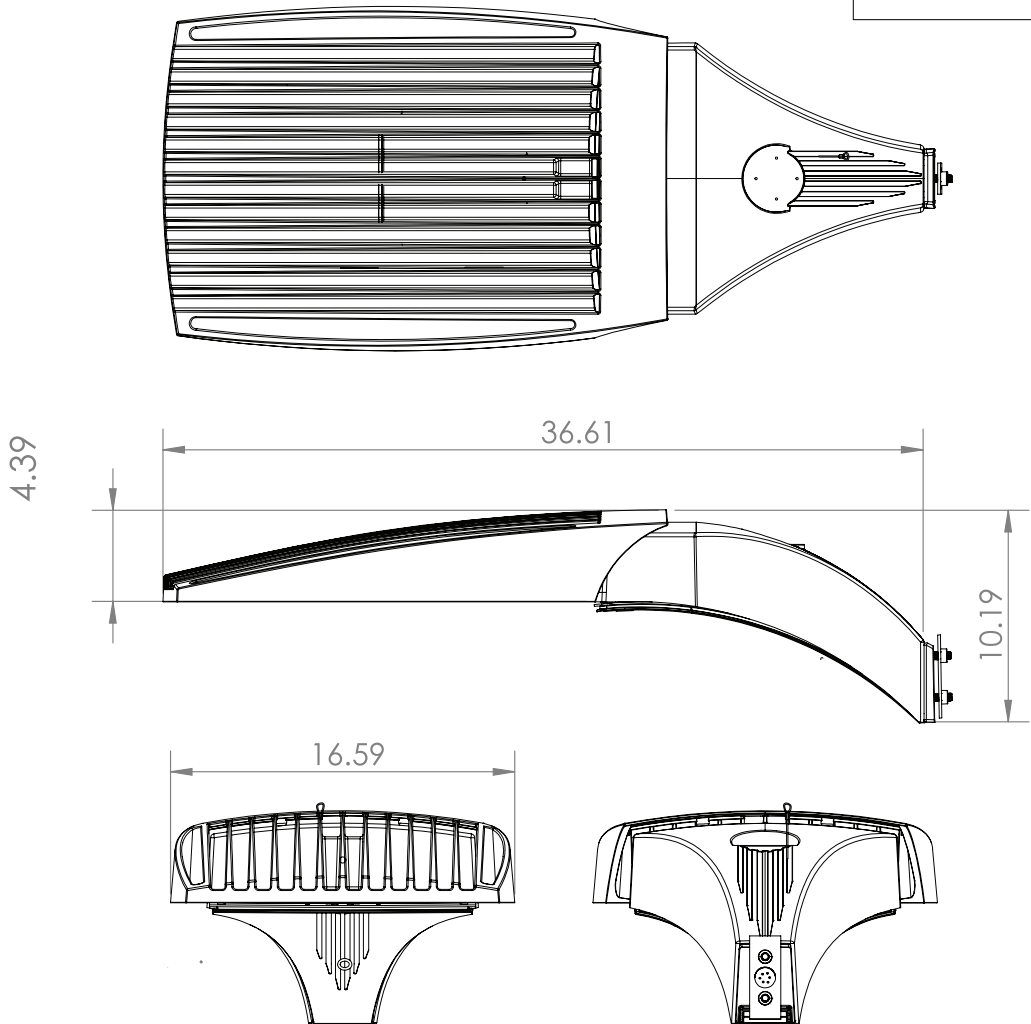
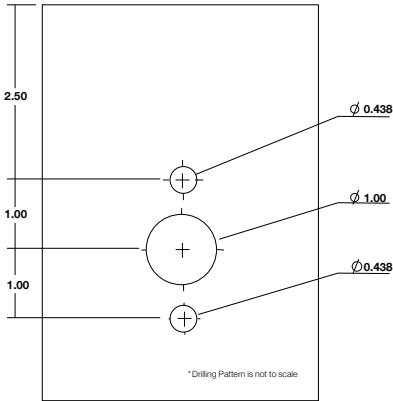
3000K or lower must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

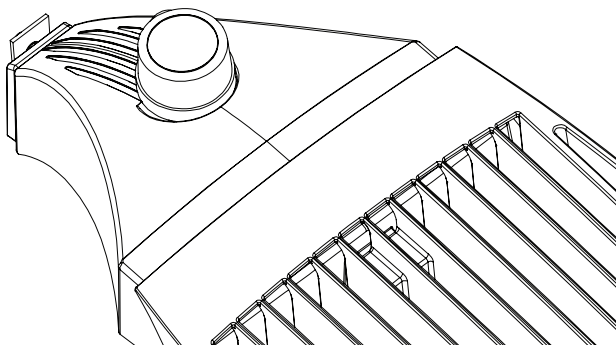
Photometric Optical Summary

T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T4FT	T5	T5LG	T5W	T5WW	FN	FM	FW
EPA Data																
				1.0	1.6	2.0	2.5	2.5	2.4	2.5						

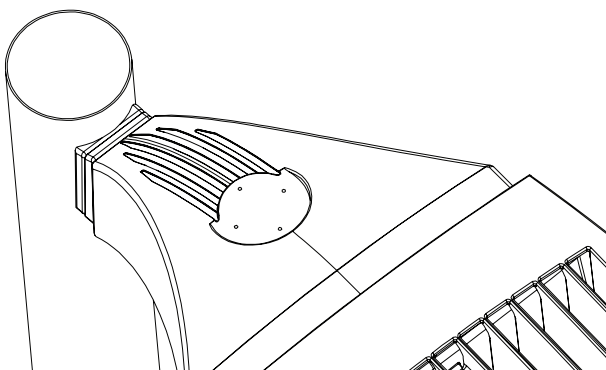
Dimensions

Width:	VLX-1	16.5"
Depth:	VLX-1	36.6"
Height:	VLX-1	4.39"
Overall Height:	VLX-1	10.19"
Weight:	58 LBS	

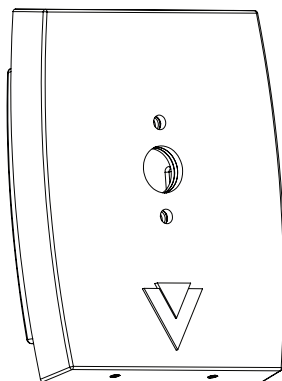




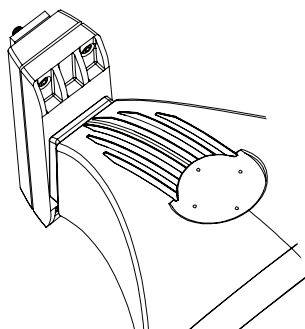
Twist lock Photocell & Receptacle
Dusk to dawn sensor.



Round Pole Plate Adapter
Round Pole Plate Adapter to be
used with round pole.

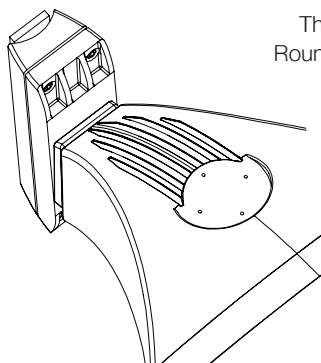


Bolt-On Arm Wall Plate
Arm mount wall plate is needed to
wall mount the VLX.



UPMA

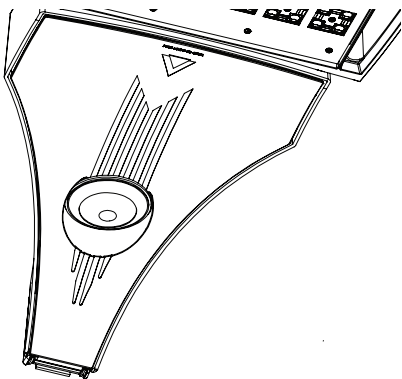
The Universal Pole Mount Adapter is ideal for retrofit applications with existing square poles. This adapter is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.



UPMA-R

The Universal Pole Mount Adapter Round is ideal for retrofit applications with existing round poles. This adapter is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

Motion Sensor



The FSP-211 by Legrand is integrated into the VLX housing and provides multi-level control based on motion and/or daylight contribution.

Lens Coverage Patterns:

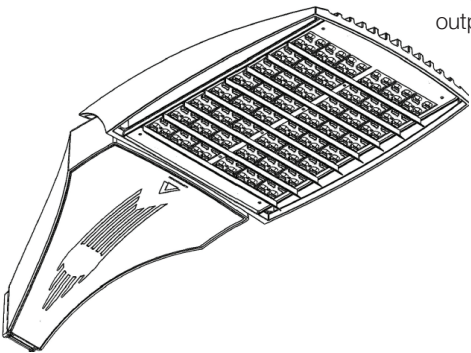
WSC-8	360° lens, maximum coverage 48'; diameter from 8' height
WSC-20	360° lens, maximum coverage 48'; diameter from 20' height
WSC-40	360° lens, maximum coverage 100'; diameter from 40' height

Motion Sensor Default Settings

High Mode	10 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Ramp Up	Disable
Fade Down	Disable
Photocell	Disable

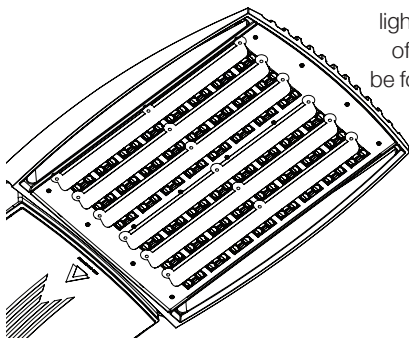
CLS

The back side cutoff louver shield will reduce light output behind the fixture, all of the light will be focused in front of the VLX.



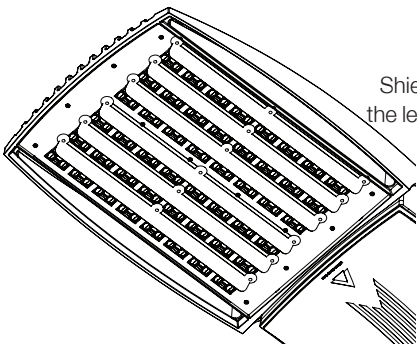
RCLS

The Right Side Cutoff Louver Shield will reduce light output on the right side of the fixture, all of the light be focused on the left side of the VLX.



LCLS

The Left Side Cutoff Louver Shield will reduce light output on the left side of the fixture, all of the light be focused on the right side of the VLX.



Zhaga Socket

Zhaga sockets and controllers use 4-pin contacts that carry different functions, such as voltage, dimming, and auxiliary power.

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



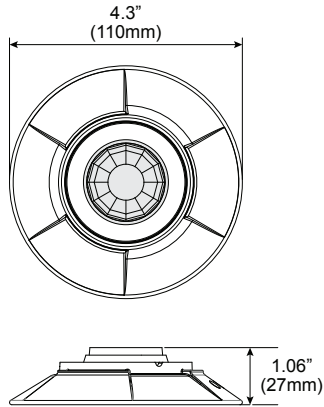
FSP-221



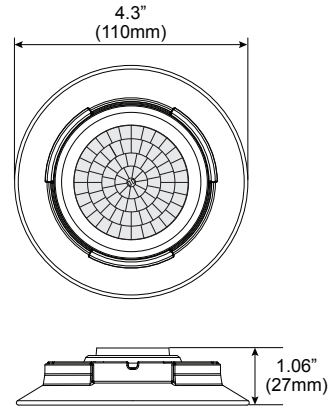
Lens with Shroud Dimensions

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

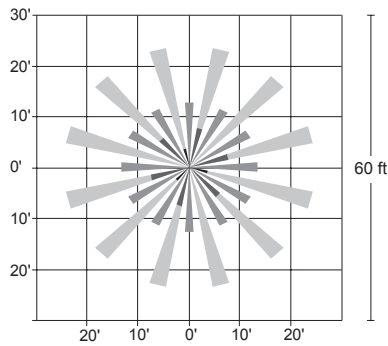
FSP-L2-S and FSP-L3-S



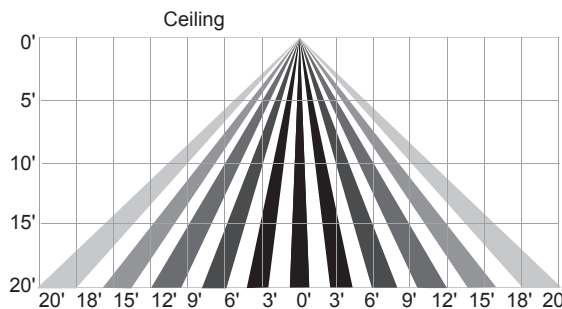
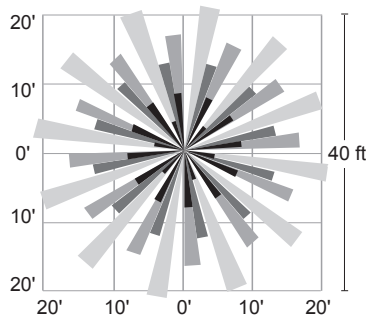
FSP-L7-S



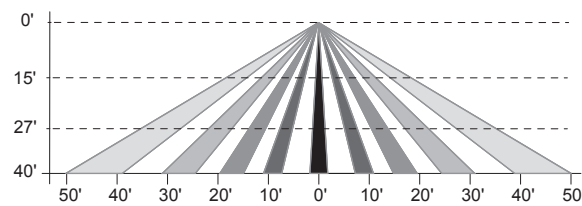
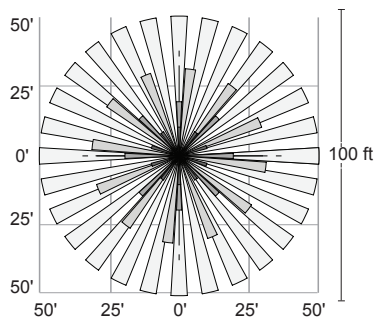
COVERAGE



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
VLX-1	96	350	6293	6114	6205	6138	6255	6275	6173	6501	6256	6355	6484	6318	6263	5945	6407	6531	6508	79.0
		530	8128	7896	8014	7927	8079	8104	7972	8397	8080	8207	8374	8160	8089	7679	8275	8434	8406	125.5
	128	350	8391	8152	8273	8184	8340	8366	8230	8669	8342	8473	8645	8424	8351	7927	8543	8708	8678	105.4
		530	10842	10533	10690	10575	10777	10810	10635	11201	10778	10949	11171	10885	10791	10243	11039	11251	11213	167.3
	160	350	10489	10190	10342	10230	10425	10458	10288	10836	10427	10592	10807	10530	10439	9909	10679	10884	10847	131.7
		530	13553	13167	13363	13218	13471	13513	13294	14001	13473	13686	13964	13606	13488	12804	13798	14064	14016	209.1
	192	350	12520	12164	12345	12211	12444	12483	12281	12934	12446	12643	12900	12569	12461	11828	12747	12993	12948	157.6
		530	16305	15841	16077	15903	16207	16257	15993	16845	16209	16465	16800	16369	16228	15404	16601	16921	16863	246.6

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
VLX-1	96	350	80	77	79	78	79	79	78	82	79	80	82	80	79	75	81	83	82	79.0
		530	65	63	64	63	64	65	64	67	64	65	67	65	64	61	66	67	67	125.5
	128	350	80	77	79	78	79	79	78	82	79	80	82	80	79	75	81	83	82	105.4
		530	65	63	64	63	64	65	64	67	64	65	67	65	64	61	66	67	67	167.3
	160	350	80	77	79	78	79	79	78	82	79	80	82	80	79	75	81	83	82	131.7
		530	65	63	64	63	64	65	64	67	64	65	67	65	64	61	66	67	67	209.1
	192	350	79	77	78	77	79	79	78	82	79	80	82	80	79	75	81	82	82	157.6
		530	66	64	65	65	66	66	65	68	66	67	68	66	66	62	67	69	68	246.6

			TS AMBER B.U.G.																																																		
MODEL	# LEDs	Current (mA)	T1			T2			T3R			T3			T3W			T3LG			T4			T4A			T4LG			T4FT			T5			T5LG			T5W			T5WW			FN			FM			FW		
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G						
VLX-1	96	350	3	0	3	2	0	2	2	0	2	1	0	1	1	0	2	2	0	1	2	0	2	1	0	1	2	0	1	1	0	2	3	0	1	3	0	1	3	0	1	3	0	1	2	0	1	2	0	1			
		530	3	0	3	2	0	2	2	0	3	2	0	2	1	0	2	2	0	2	2	0	2	2	0	2	2	0	1	2	0	2	2	0	2	3	0	1	3	0	1	3	0	2	3	0	1						
		350	3	0	3	2	0	3	2	0	3	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	3	0	1	3	0	1	3	0	2	3	0	2	4	0	1	4	0	1	3	0	1			
	128	350	3	0	3	2	0	3	2	0	3	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	3	0	1	3	0	2	3	0	2	4	0	1	4	0	1	4	0	1	3	0	1			
		530	3	0	3	3	0	3	3	0	3	3	0	2	2	0	3	2	0	2	3	0	3	3	0	2	2	0	2	2	0	2	3	0	2	3	0	2	4	0	2	4	0	1	4	0	1	3	0	1			
		350	3	0	3	2	0	3	3	0	3	3	0	2	2	0	2	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	3	0	2	3	0	2	4	0	2	4	0	1	4	0	1	3	0	1			
160	350	3	0	3	2	0	3	3	0	3	3	0	2	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	2	0	3	3	0	2	3	0	2	3	0	2	4	0	1	4	0	1	3	0	1				
	530	4	0	4	3	0	3	3	0	3	3	0	2	2	0	3	3	0	2	3	0	3	3	0	2	3	0	2	3	0	3	4	0	2	3	0	2	4	0	2	4	0	1	4	0	1	3	0	1				
	350	4	0	4	3	0	3	3	0	3	3	0	2	2	0	3	3	0	2	3	0	3	3	0	2	2	0	2	2	0	2	3	0	2	3	0	2	4	0	2	4	0	1	4	0	1	3	0	1				
192	350	4	0	4	3	0	3	3	0	3	3	0	2	2	0	3	3	0	2	3	0	3	3	0	2	2	0	2	2	0	2	3	0	2	3	0	2	4	0	2	4	0	1	4	0	1	3	0	1				
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VLX-1 - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VLX-1-96LD-3	79	0.66	0.38	0.33	0.29	0.23	0.16
VLX-1-96LD-5	126	1.05	0.61	0.53	0.45	0.36	0.26
VLX-1-128LD-3	105	0.88	0.50	0.44	0.38	0.30	0.22
VLX-1-128LD-5	167	1.39	0.80	0.70	0.60	0.48	0.35
VLX-1-160LD-3	132	1.10	0.63	0.55	0.48	0.38	0.28
VLX-1-160LD-5	209	1.74	1.00	0.87	0.75	0.60	0.44
VLX-1-192LD-3	158	1.32	0.76	0.66	0.57	0.46	0.33
VLX-1-192LD-5	247	2.06	1.19	1.03	0.89	0.71	0.51
ELECTRICAL LOAD DATA IS ESTIMATED							

