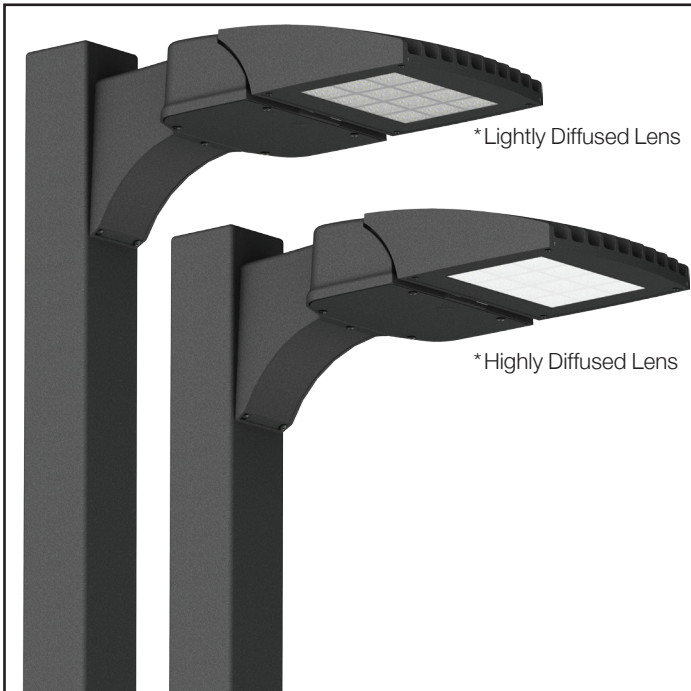


VSX-II Array - Serenity Lens LED Specifications



Project Name:

Catalog Number:

Type:

The new **VSX-II Array - Serenity Lens LED** Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines the latest LED Array technology, advanced LED thermal management 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.

The VSX-II Array - Serenity Lens LED fixture is offered with lumen packages ranging from 5,000 - 16,000. Ten optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

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

The **VSX-II Array - Serenity Lens LED** series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	Serenity Lens	OPTIONS	OPTIONS
VSX-II	T1 Type 1	5L	3K 3000K	UNV 120-277V	AM Arm Mount	BZ Bronze	LDL Lightly Diffused Lens	PCR-120	WSC-8 Motion Sensor 8' Mounting Height
	T2 Type 2	7L	4K 4000K	8 347V	SAM Straight Arm Mount W/ Terminal Block (New Construction)	BK Black	HDL Highly Diffused Lens	PCR-208	WSC-20 Motion Sensor 9-20' Mounting Height
	T3L Type 3 Long	10L	5K 5000K	5 480V	UAM Universal ArmW/ Terminal Block Mount (Retrofit)	SBK Smooth Black		PCR-240	WSC-40 Motion Sensor 21-40' Mounting Height
	T4L Type 4 Long	13L			MAF Mast Arm Fitter	WH White		PCR-347	*The WSC option will require (1) FSIR 100 remote for programming
	T5LS Type Long Square	16L			KM Knuckle Mount	SWH Smooth White		PCR-480 Photocell & Receptacle	UMAP Universal Mast arm fitter
					WM Wall Mount *Requires BAWP	GP Graphite		PER	UPMA-S Universal Square Pole Mount Adaptor
					AWM Adjustable Wall Mount	GY Grey		5PINPER	UPMA-R Universal Round Pole Mount Adaptor
					*Round Pole Plate Adaptors (RPP) are to be ordered separately.	SL Silver Metallic		7PINPER 3, 5, or 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	BAWP Cast Wall Plate
					*BAWP to be ordered separately	CC Custom Color		DIM 0-10v Dimming Driver	ROT-R Rotated Optics Right Side
								RPP-3"	ROT-L Rotated Optics Left Side
								RPP-4"	
								RPP-5" Round Pole Plate Adaptor	
								VWC Visionaire Wireless Controls *Consult Factory	

Features & Specifications

VSX-II Array - Serenity Lens

Housing

Cast aluminum LED housing with integral cooling fins for thermal management.

Mounting Arm/Driver Compartment

Durable two-piece die cast aluminum driver compartment utilizes stainless steel hardware and sealed with a one-piece silicone gasket.

Thermal Management

- The VSX-II Array - Serenity Lens LED series provides excellent thermal management by mounting the LED Arrays 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 VSX-II Array - Serenity Lens series LEDs have been determined to last 100,000+ hours in 25° C environments when driven at 1400 mA.

Optical System

- Serenity Lens is offered in two different diffusion levels, high and lightly diffused.
- The highest lumen output LED Arrays are utilized in the VSX-II Array - Serenity Lens series. IES distribution Types I, II, III, IVL, and VLS are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.
- L70 life of our LEDs is rated over 100,000 hours.
- CRI values are 70.

New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

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 millimeter 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 VSX-II Array - Serenity Lens LED series is supplied with a choice of 350, 530, 700, 1050, 1200 or 1400 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -40°C operations.
- 10 kV surge protector supplied as standard.
- Terminal block supplied as standard on AM, SAM and UAM as standard

Warranty

Ten (10) year Limited Warranty on electrical components (Driver & LED Boards), Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Photocell & Receptacle
- Photo Receptacle and Shorting Cap
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Rotated Optics

Listings

- The VSX-II Series is cUL Listed
- IP65 Rated Housing
- ANSI Certification
- Powder Coated Tough
- IDA Certification
- DLC Listed




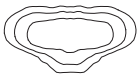









DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

VSX-II ARRAY - ELECTRICAL LOAD (A)

Ordering Nomenclature	System Watts	120	208	240	277	347	480
VSX-II-T5LS-5L	57	0.47	0.27	0.24	0.20	0.16	0.12
VSX-II-T5LS-7L	85	0.70	0.41	0.35	0.31	0.24	0.18
VSX-II-T5LS-10L	113	0.94	0.54	0.47	0.41	0.33	0.24
VSX-II-T5LS-13L	147	1.23	0.71	0.61	0.53	0.42	0.31
VSX-II-T5LS-16L	171	1.43	0.82	0.71	0.62	0.49	0.36

VSX-II Array - Serenity Lens LED Specifications

Photometric Optical Summary

	T1 Type 1	T2 Type 2	T3L Type 3 Long	T4L Type 4 Long	T5LS Type 5 Long Square					
										
EPA Data	 0.58	 .92	 1.16	 1.45	 1.40	 1.48				
VSX-II-KM EPA DATA										
Degree of Tilt	0°	10°	20°	30	40°	50°	60°	70°	80°	90°
EPA	0.14	0.18	0.24	0.39	0.54	0.79	1.05	1.35	1.74	2.20

Dimensions

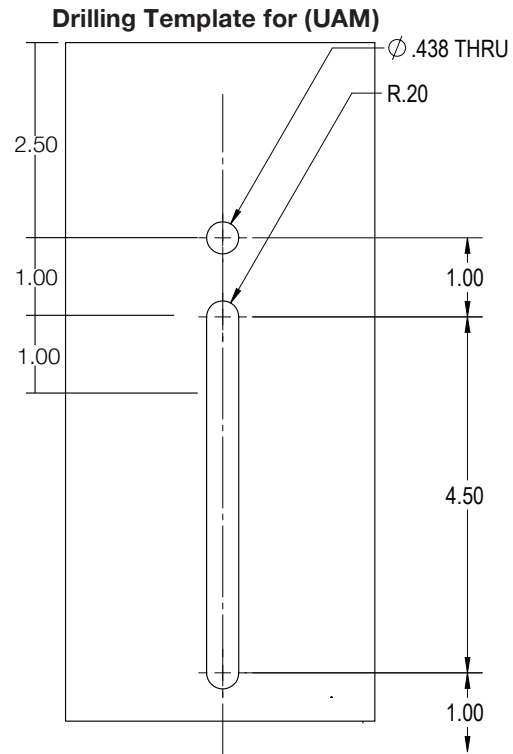
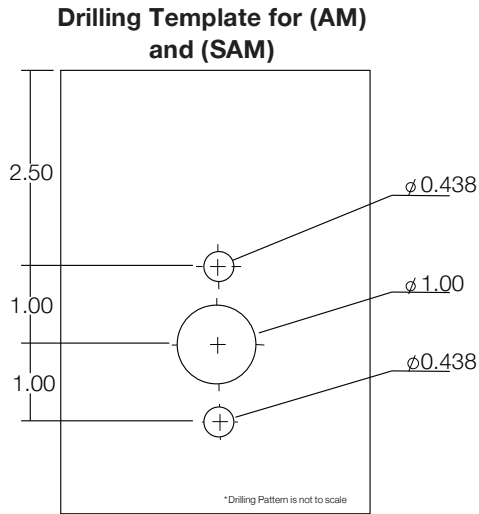
Width: VSX-II 12.5"

Depth: VSX-II 23"

Height: VSX-II 4"

Overall Height: VSX-II 8"

Weight: 25 LBS

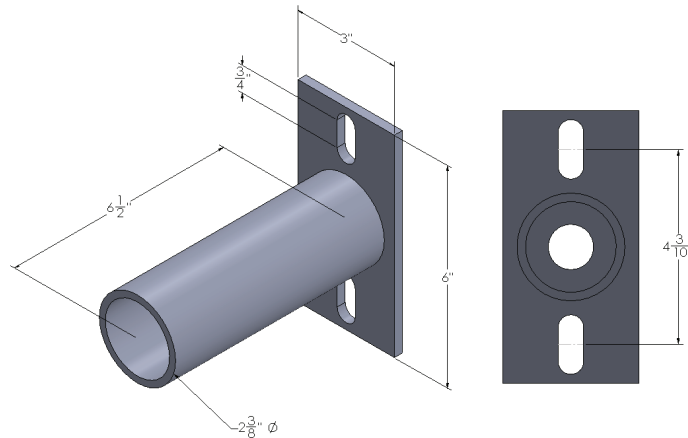


LED Specifications **VSX-II Array Serenity Lens**

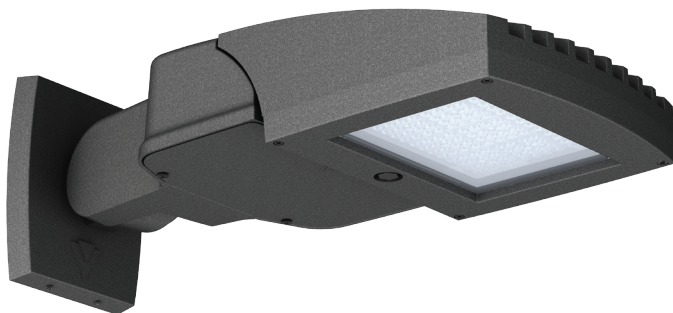
VSX-II Options

Universal Mast Arm Fitter

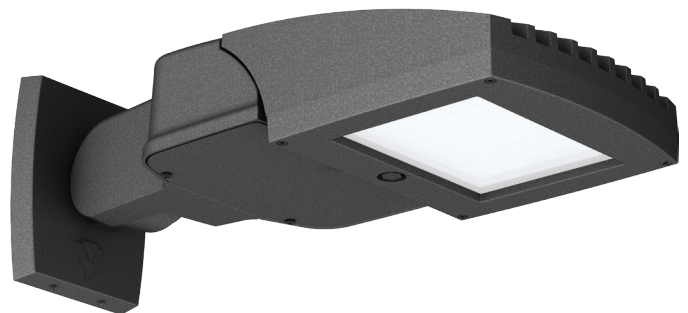
UMAP – The Universal Mast Arm Fitter is a simple solution for retrofit applications where a fixture needs to mount to an existing pole, the UMAP is meant to be use to with knuckle mounts and also Mast Arm Fitters. The UMAP has a bolt slot ranging from 7" all the way down to 3.5". The UMAP also has a Round Pole Plate Adaptor (RPP) for mounting to round poles.



Lightly Diffused Lens

LDL - Lightly Diffused Lens

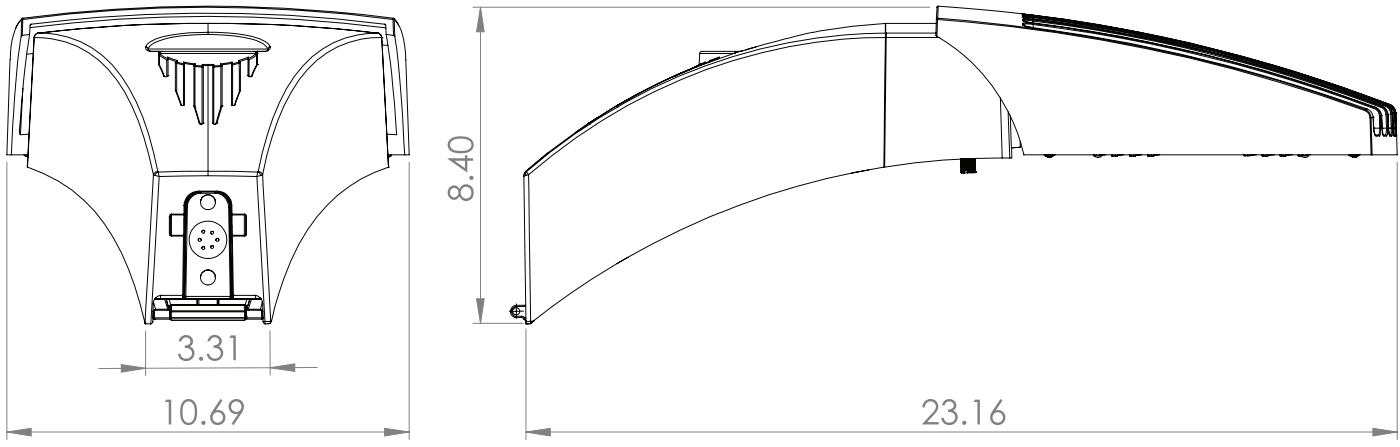
Highly Diffused Lens

HDL - Highly Diffused Lens

VSX-II ARRAY - Serenity Lens LED Specifications

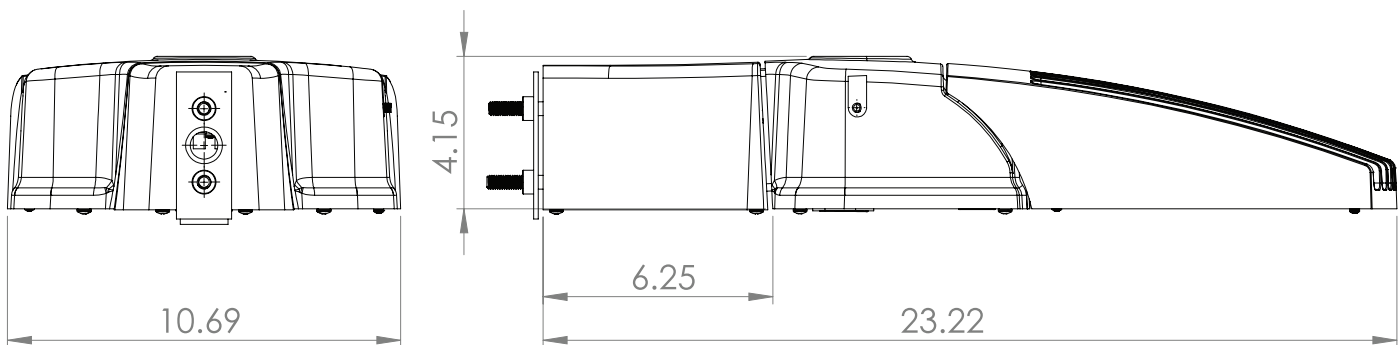
Arm Mount (AM)

The Arm Mount (AM) utilizes a 2 piece cleat system for easy installation, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



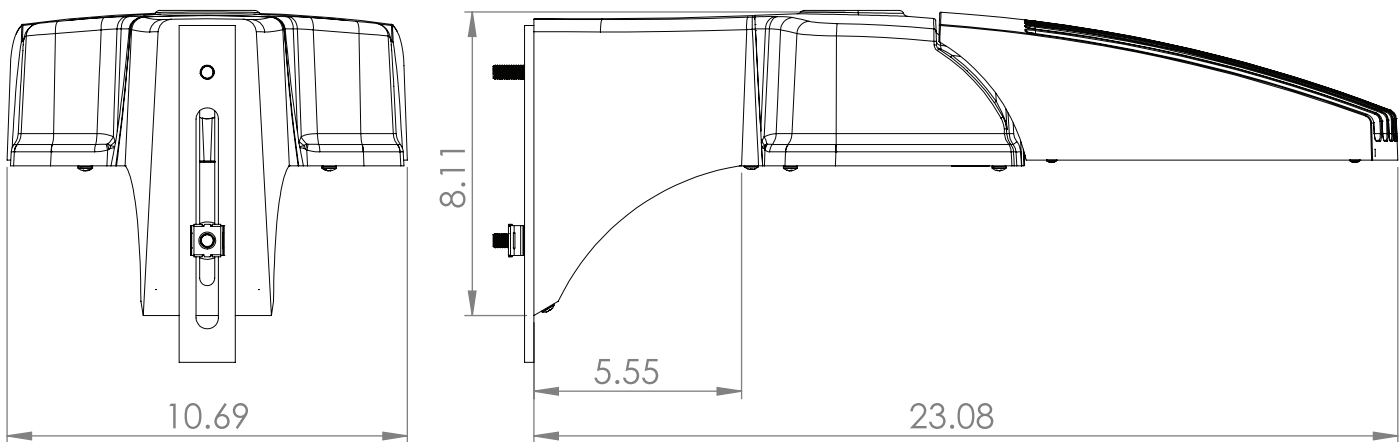
Straight Arm Mount (SAM)

The Straight Arm Mount (SAM) uses a 2 piece mounting system, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



Universal Arm Mount (UAM)

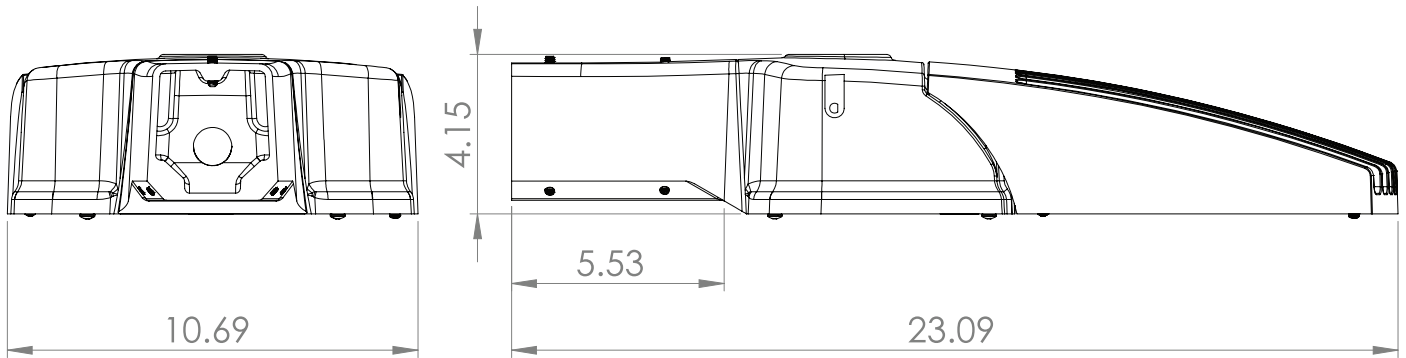
The Universal Arm Mount (UAM) is meant for retrofit Applications and has a drilling template ranging from 3" to 5.5". A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



LED Specifications VSX-II ARRAY - Serenity Lens

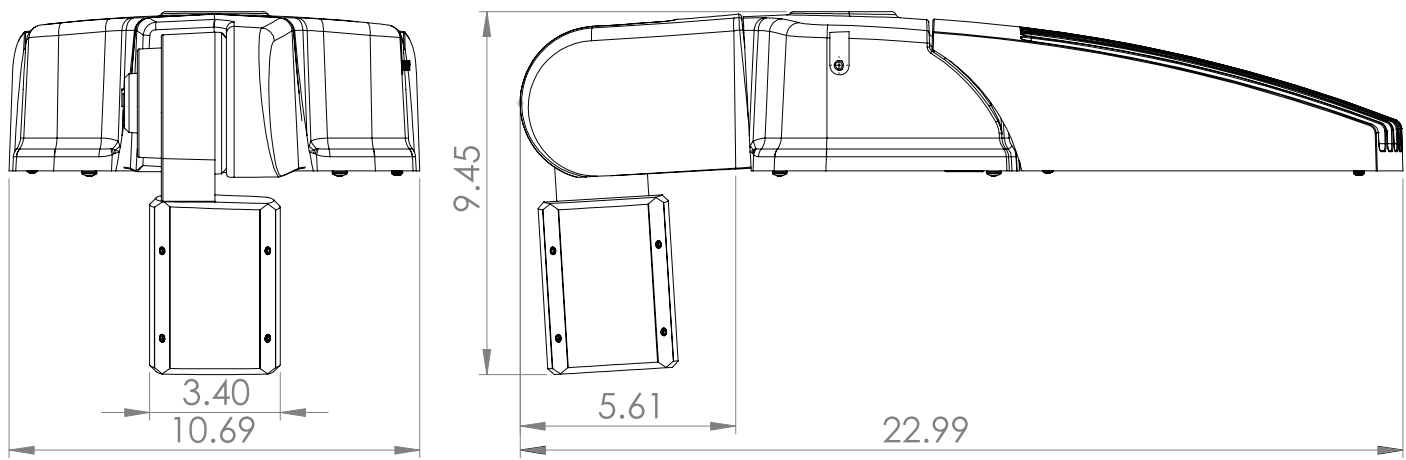
Mast Arm Fitter (MAF)

Mast Arm Fitter fits over a 1 5/8" - 2 3/8" tenon.



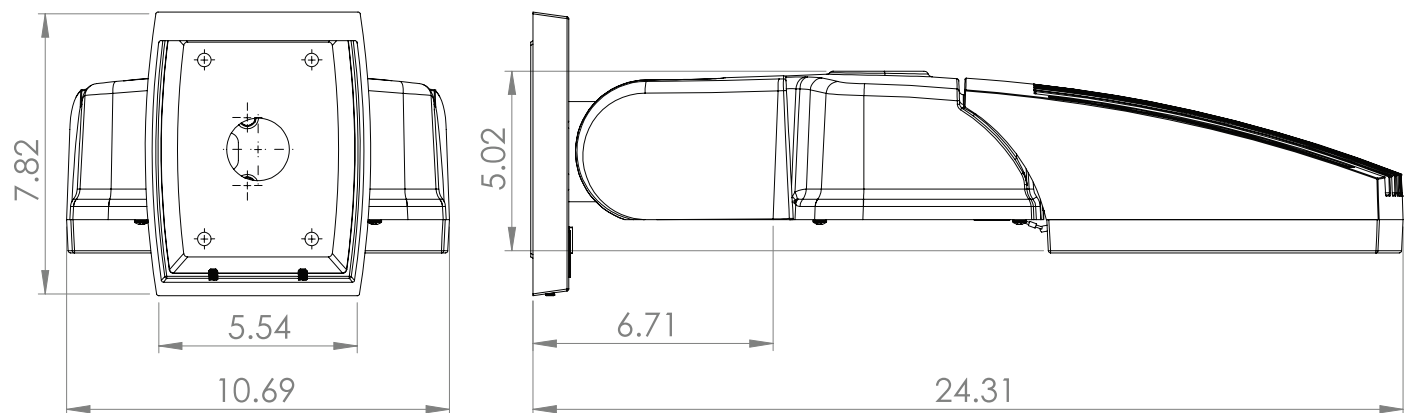
Knuckle Mount (KM)

An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 90° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment.



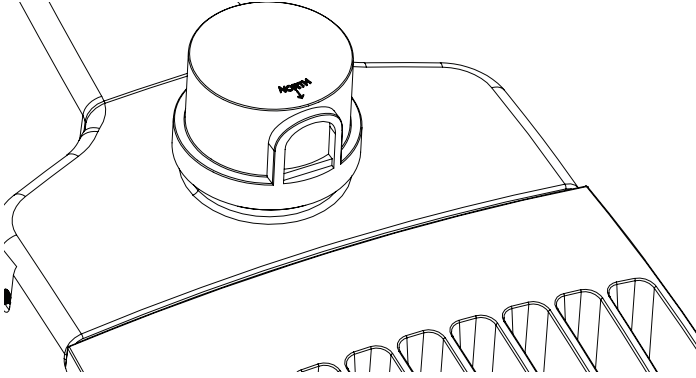
Adjustable Wall Mount (AWM)

Wall Mount - Adjustable up to 50° in 10° increments.

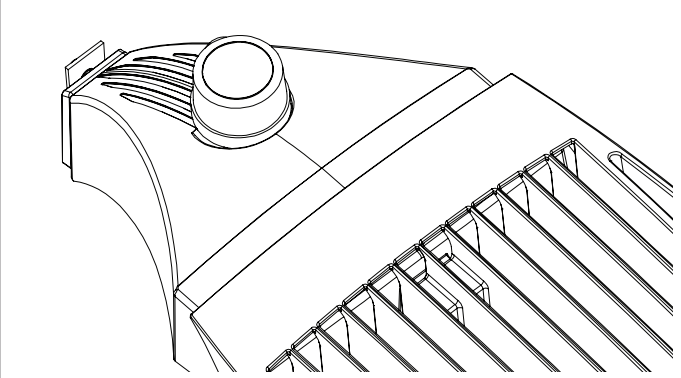


VSX-II Array - Serenity Lens LED Specifications

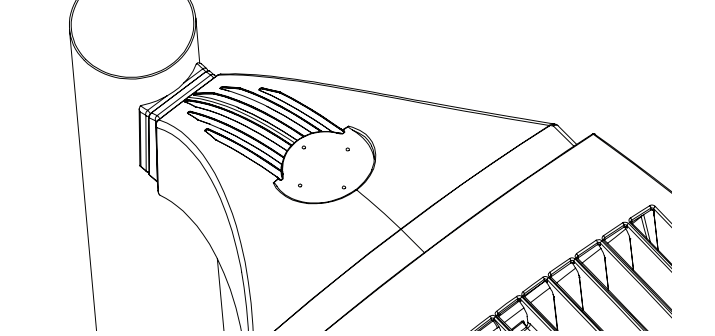
Twist lock Photocell & Receptacle - Dusk to dawn sensor.



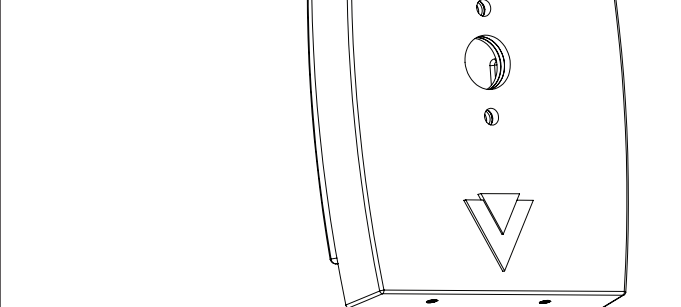
Photocell Receptacle and Shorting Cap



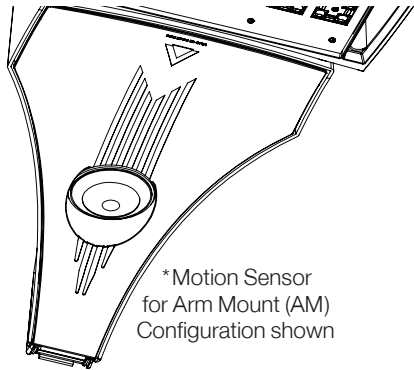
Round Pole Plate Adaptor (RPP) - Round Pole Plate Adaptor (RPP) to be used with round pole.



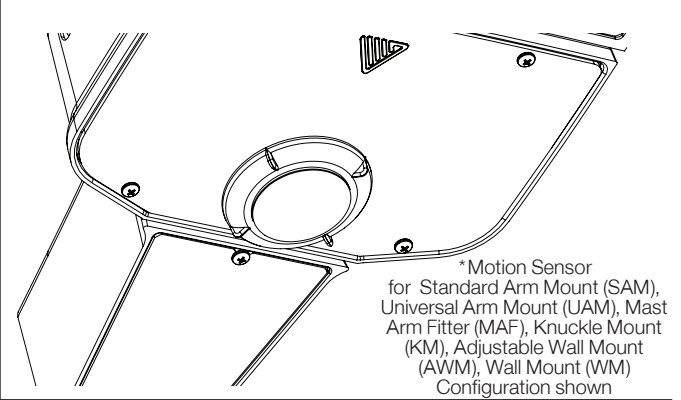
Cast Wall Plate - Arm Mount Wall Plate is needed to wall mount the VSX-II.



Motion Sensor -
*This option will require one FSIR 100 remote for programming.



Motion Sensor (for SAM, UAM, MAF, KM, WM, AWM) -
*This option will require one FSIR 100 remote for programming.

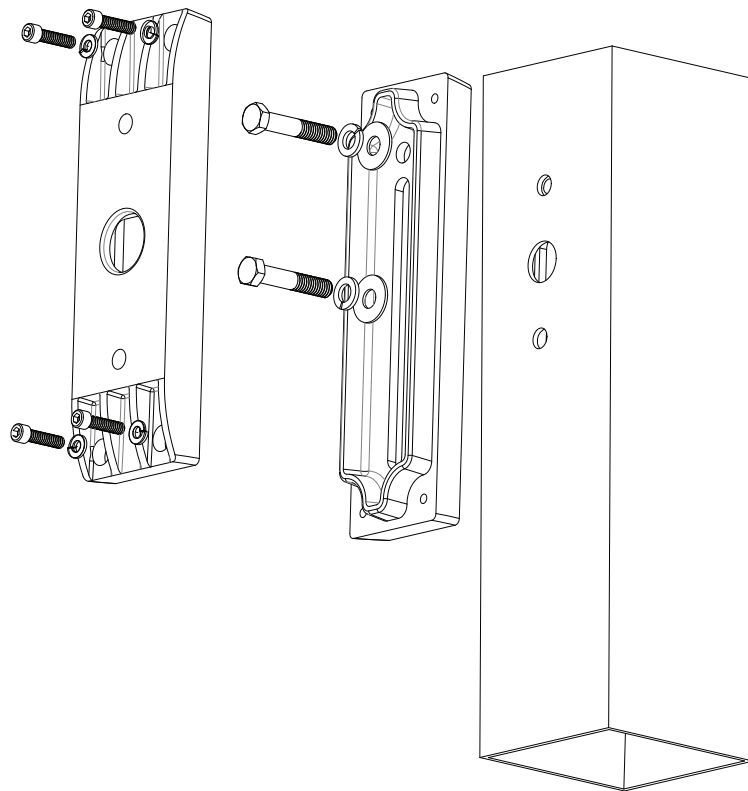


The FSP-211 by Legrand is integrated into the VSX housing and provides multi-level control based on motion and/or daylight contribution.

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

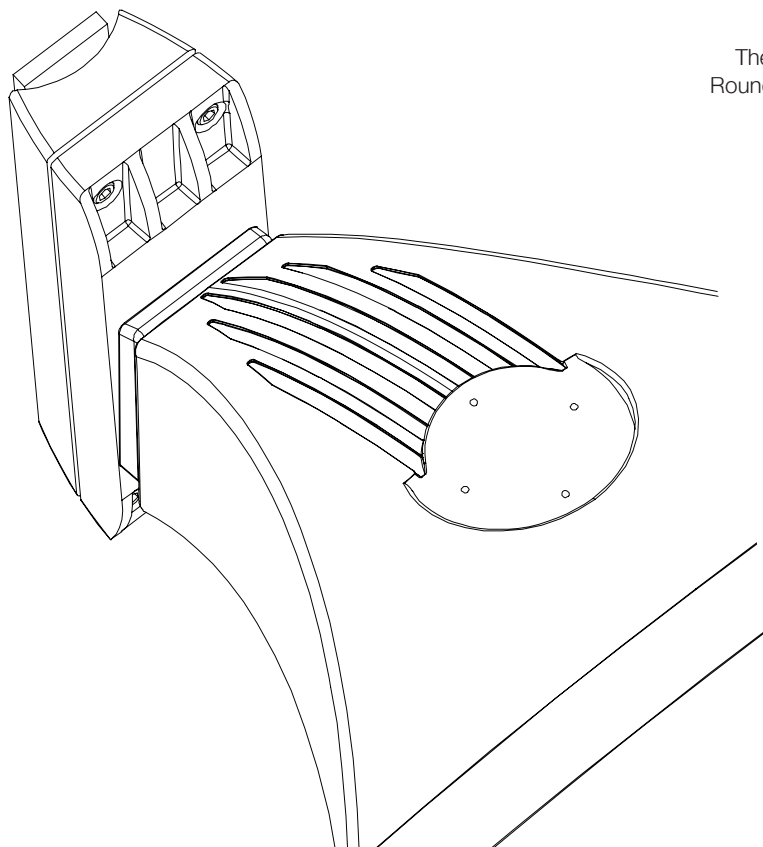
Motion Sensor Default Settings	
High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable

LED Specifications **VSX-II ARRAY - Serenity Lens**



UPMA

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



UPMA-R

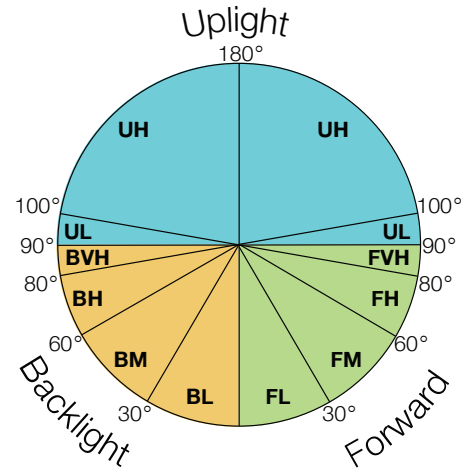
The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.

VSX-II ARRAY - Serenity Lens Lightly Diffused Lens

VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 3K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5213	5335	4806	4786	4847	57
7L	7790	7973	7182	7152	7244	85
10L	10981	11239	10124	10081	10210	113
13L	14045	14374	12948	12893	13059	147
16L	16235	16616	14968	14904	15095	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 4K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5499	5628	5069	5048	5113	57
7L	8217	8410	7576	7543	7640	85
10L	11582	11854	10679	10633	10770	113
13L	14814	15162	13658	13599	13774	147
16L	17124	17526	15788	15720	15922	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 5K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5536	5666	5104	5082	5147	57
7L	8272	8467	7627	7594	7692	85
10L	11661	11934	10751	10705	10842	113
13L	14914	15264	13750	13691	13867	147
16L	17240	17644	15894	15826	16030	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 3K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	92	94	85	85	86	57
7L	92	94	85	85	86	85
10L	97	100	90	89	91	113
13L	95	98	88	87	89	147
16L	95	97	87	87	88	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 4K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	97	100	90	89	90	57
7L	97	100	90	89	90	85
10L	103	105	95	94	95	113
13L	101	103	93	92	93	147
16L	100	102	92	92	93	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 5K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	98	100	90	90	91	57
7L	98	100	90	90	91	85
10L	103	106	95	95	96	113
13L	101	104	93	93	94	147
16L	101	103	93	92	94	171

Lightly Diffused Lens **VSX-II ARRAY - Serenity Lens****Bug Rating -**

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.



VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 3K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	3	0	3	2	0	2	2	0	2	2	0	2	3	0	3	85
10L	3	0	3	2	0	2	2	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 4K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	3	0	3	2	0	2	2	0	2	2	0	2	3	0	3	85
10L	3	0	3	3	0	3	3	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171
VSX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 5K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	3	0	3	2	0	2	2	0	2	2	0	2	3	0	3	85
10L	3	0	3	3	0	3	3	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171

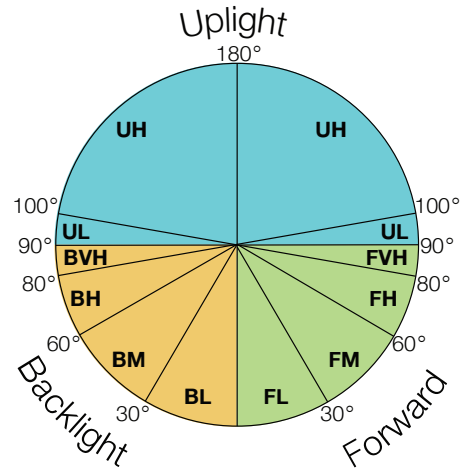
VSX-II ARRAY - Serenity Lens Highly Diffused Lens

VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 3K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5072	5176	4708	4599	4717	57
7L	7580	7735	7036	6872	7050	85
10L	10685	10904	9918	9687	9937	113
13L	13665	13946	12684	12389	12710	147
16L	15797	16120	14663	14322	14692	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 4K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5350	5460	4966	4851	4976	57
7L	7995	8159	7421	7249	7436	85
10L	11270	11501	10461	10218	10482	113
13L	14414	14710	13379	13068	13406	147
16L	16662	17004	15466	15106	15496	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 5K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	5386	5497	5000	4883	5009	57
7L	8049	8214	7471	7297	7486	85
10L	11346	11578	10531	10286	10552	113
13L	14511	14809	13469	13156	13496	147
16L	16774	17118	15570	15208	15601	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 3K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	90	92	83	81	83	57
7L	90	92	83	81	83	85
10L	95	97	88	86	88	113
13L	93	95	86	84	86	147
16L	92	94	86	84	86	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 4K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	95	97	88	86	88	57
7L	95	97	88	86	88	85
10L	100	102	93	91	93	113
13L	98	100	91	89	91	147
16L	97	99	90	88	90	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 5K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
5L	95	97	88	86	89	57
7L	95	97	88	86	89	85
10L	101	103	93	91	94	113
13L	98	100	91	89	92	147
16L	98	100	91	89	91	171

Highly Diffused Lens VSX-II ARRAY - Serenity Lens

Bug Rating -

The subzones are individually rated on a scale from 0 to 5, going from lowest to highest luminous flux. The highest rating of a subzone is considered the overall rating for that zone, and these readings are compiled into the BUG lighting classification: for example, B3 U1 G0. The tables below, which are based on the standards established by the IES, show the thresholds for each subzone.



VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 3K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	85
10L	3	0	3	3	0	2	2	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	2	3	0	2	3	0	2	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 4K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	85
10L	3	0	3	3	0	2	3	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	3	3	0	3	3	0	2	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171
VSX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 5K BUG Data																
LUMENS	T1			T2			T3L			T4L			T5LS			WATTS
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	2	57
7L	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	85
10L	3	0	3	3	0	2	3	0	2	2	0	2	3	0	3	113
13L	3	0	3	3	0	3	3	0	3	3	0	2	3	0	3	147
16L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	171