

VMX-II Array - Serenity Lens LED Specifications



Project Name:

Catalog Number:

Type:

The **VMX-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 cast aluminum housings.

The VMX-II Array - Serenity Lens LED fixture is offered with lumen packages ranging from 17,000 to 36,000. Five optical distribution patterns are available. Choose between 3K, 4K or 5K 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 **VMX-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
VMX-II	T1 Type 1	17L	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	20L	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	23L	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	26L			MAF Mast Arm Fitter	WH White		PCR-277	*The WSC option will require (1) FSIR 100 remote for programming
	T5LS Type Long Square	30L			KM Knuckle Mount	SWH Smooth White		PCR-347	UMAP Universal Mast arm fitter
		33L			WM Wall Mount *Requires BAWP	GP Graphite		PCR-480 Photocell & Receptacle	UPMA-S Universal Square Pole Mount Adaptor
		36L			AWM Adjustable Wall Mount	GY Grey		PER	UPMA-R Universal Round Pole Mount Adaptor
					*Round Pole Plate Adaptors (RPP) are to be ordered separately.	SL Silver Metallic		5PINPER	BAWP Cast Wall Plate
					*BAWP to be ordered separately.	CC Custom Color		7PINPER 3, 5, or 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	ROT-R Rotated Optics Right Side
								DIM 0-10v Dimming Driver	ROT-L Rotated Optics Left Side
								RPP-3"	
								RPP-4"	
								RPP-5" Round Pole Plate Adaptor	
								VWC Visionaire Wireless Controls *Consult Factory	

Features & Specifications

VMX-II Array - Serenity Lens

Heatsink

Cast aluminum heatsink 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 VMX-II Array - Serenity Lens 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 VMX-II 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, LEDs are utilized in the VMX-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 VMX-II Array - Serenity Lens LED series is supplied with a choice of either 1200 or 1400 mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%.
- 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 with Shorting Cap
- 0-10v Dimming Driver
- Motion Sensor
- Wireless Control
- Round pole plate adapter
- Universal Pole Mount Adaptor
- Cast Wall Plate
- Rotated Optics
- Cutoff Louver Shielding (CLS)

Listings

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


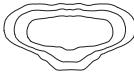











DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected with a fixed mount for IDA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

VMX-II ARRAY - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VMX-II-T5LS-17L	139	1.16	0.67	0.58	0.50	0.40	0.29
VMX-II-T5LS-20L	167	1.39	0.80	0.69	0.60	0.48	0.35
VMX-II-T5LS-23L	201	1.68	0.97	0.84	0.73	0.58	0.42
VMX-II-T5LS-26L	230	1.91	1.10	0.96	0.83	0.66	0.48
VMX-II-T5LS-30L	290	2.42	1.39	1.21	1.05	0.84	0.60
VMX-II-T5LS-33L	310	2.58	1.49	1.29	1.12	0.89	0.65
VMX-II-T5LS-36L	344	2.87	1.65	1.43	1.24	0.99	0.72

VMX-II Array - Serenity Lens LED Specifications

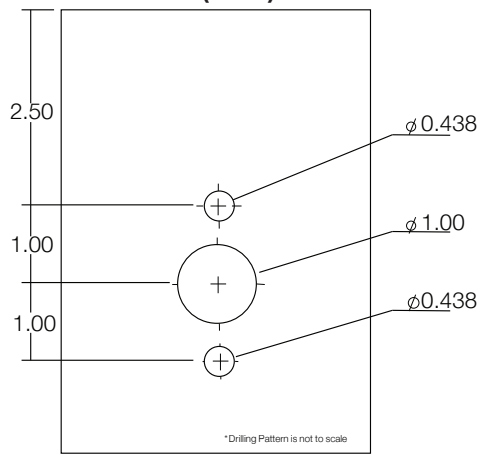
Photometric Optical Summary

	T1 Type 1	T2 Type 2	T3L Type 3 Long	T4L Type 4 Long	T5LS Type 5 Long Square					
										
EPA Data										
	1.25	1.49	2.19	2.29	2.28	2.29				
VMX-II-KM EPA DATA										
Degree of Tilt	0°	10°	20°	30	40°	50°	60°	70°	80°	90°
EPA	0.76	0.88	1.26	1.69	2.07	2.40	2.66	2.86	2.97	2.98

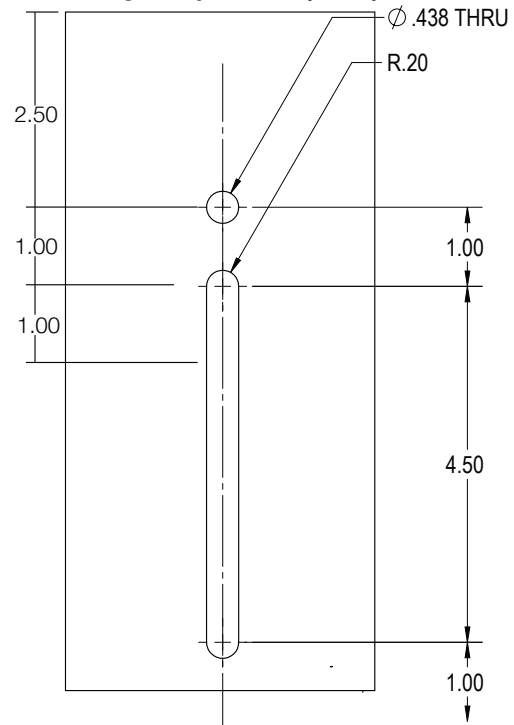
Dimensions

Width:	VMX-II 15.5"
Depth:	VMX-II 29"
Height:	VMX-II 4.0"
Overall Height:	VMX-II 10.75"
Weight:	49 LBS

Drilling Template for (AM) and (SAM)



Drilling Template for (UAM)

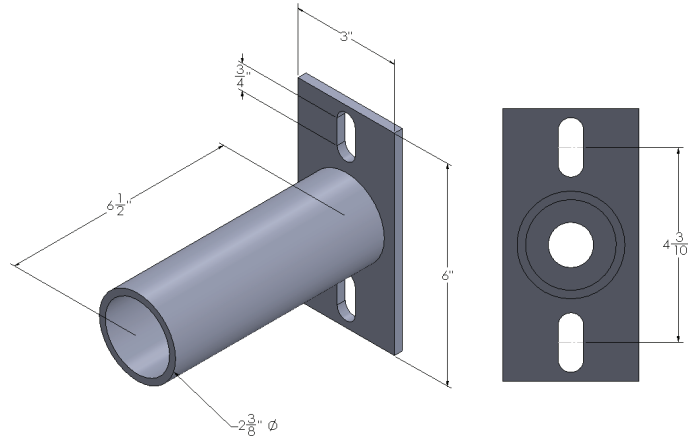


LED Specifications **VMX-II Array - Serenity Lens**

VMX-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**



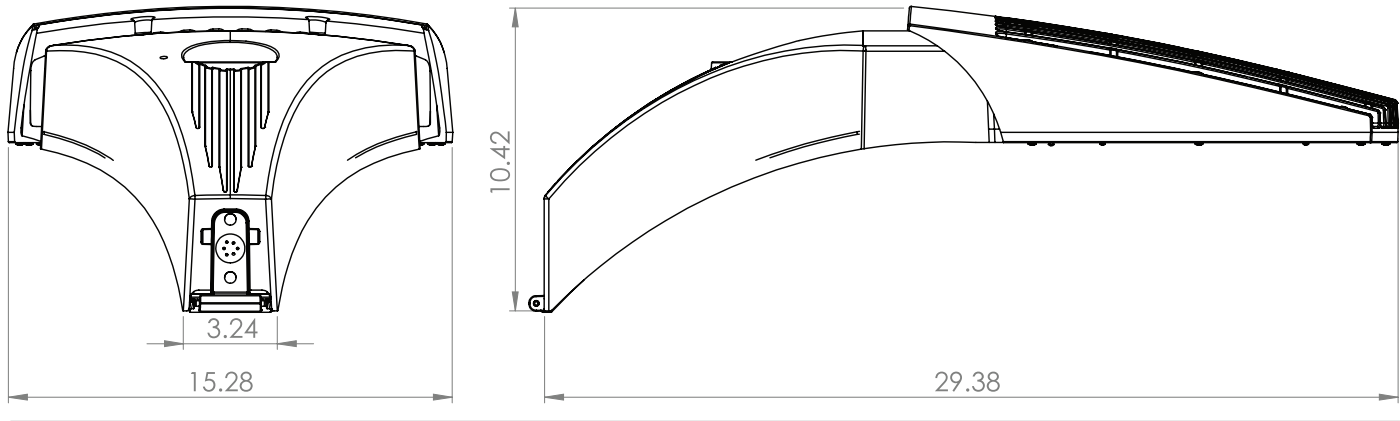
Highly Diffused Lens **HDL - Highly Diffused Lens**

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VMX-II Array - Serenity Lens LED Specifications

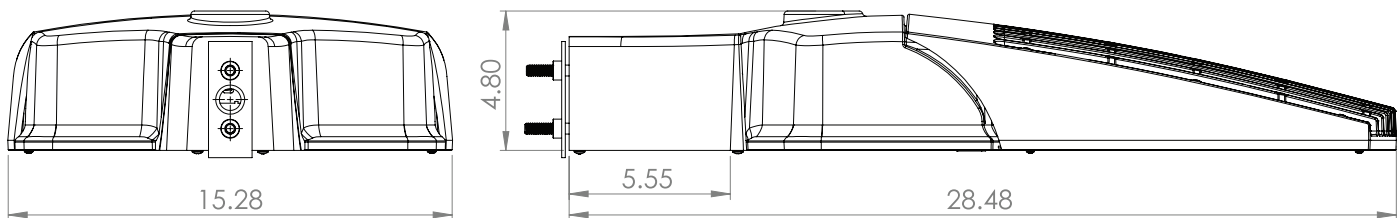
Arm Mount (AM)

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.



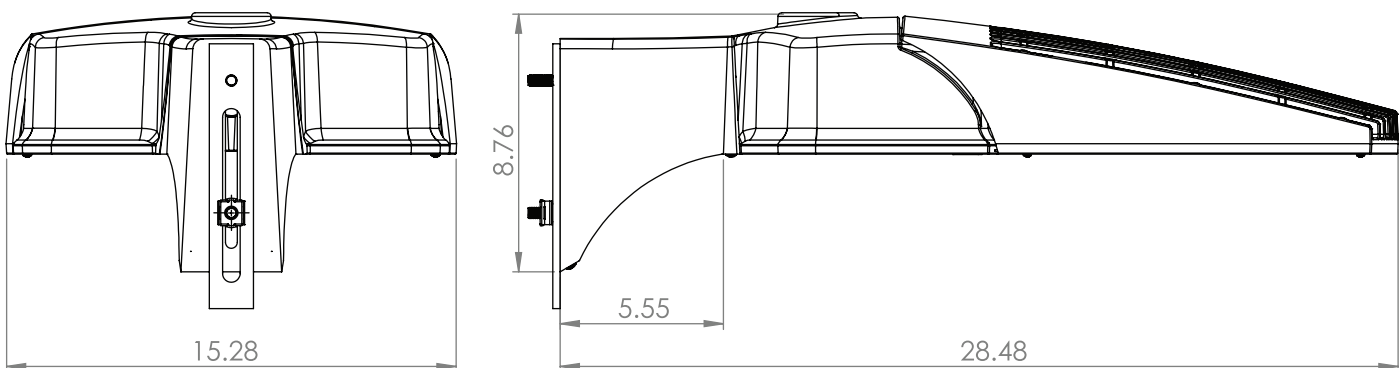
Straight Arm Mount (SAM)

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)

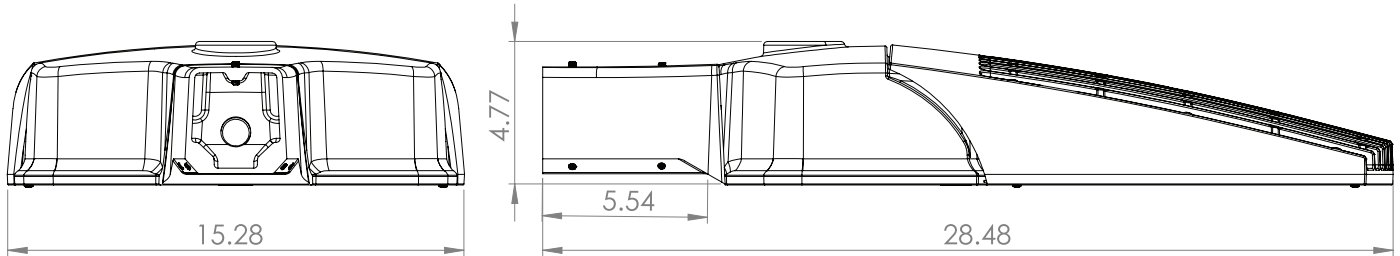
The Universal Arm Mount (UAM) is meant for retrofit Applications and has a drilling template ranging from 3" to 5.5". A Round Pole Plate Adapter (RPP) is required for mounting to round poles.



LED Specifications VMX-II Array - Serenity Lens

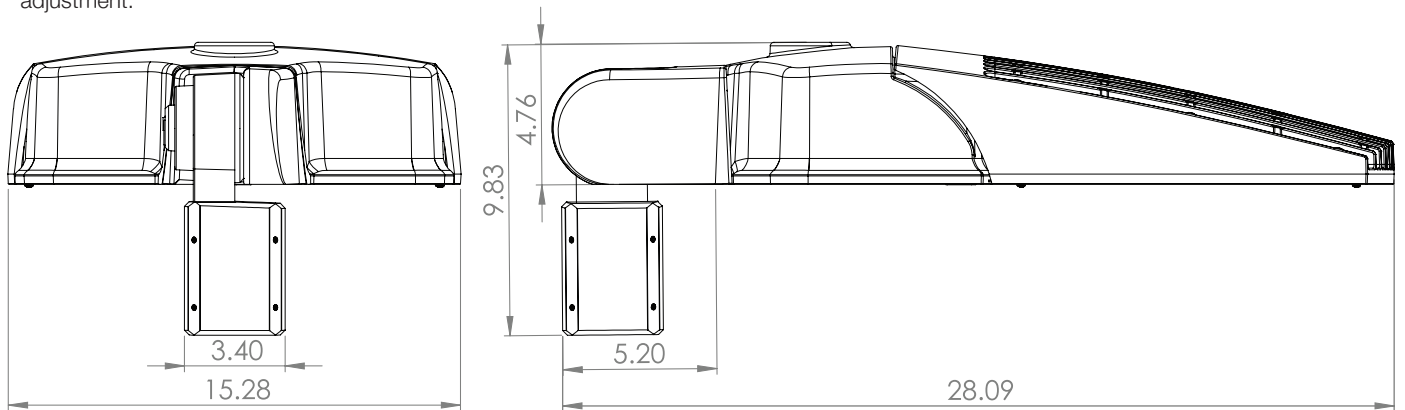
Mast Arm Fitter (MAF)

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



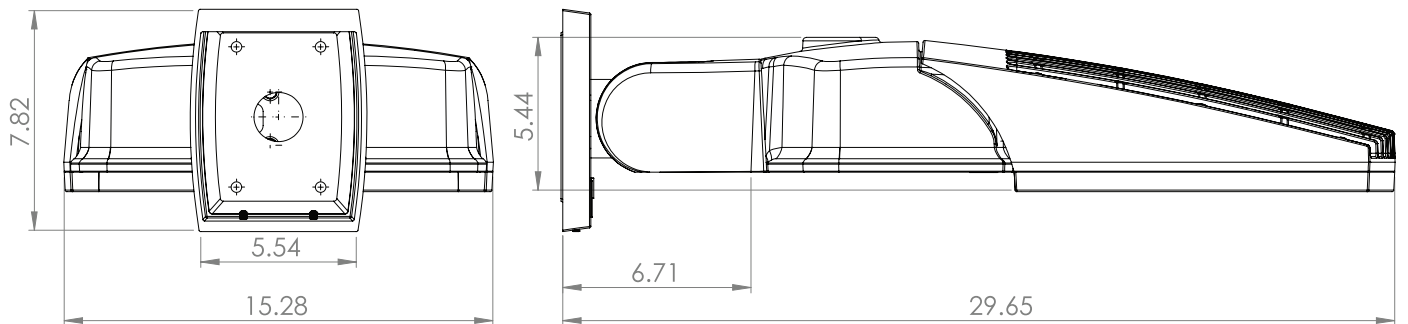
Knuckle Mount (KM)

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.



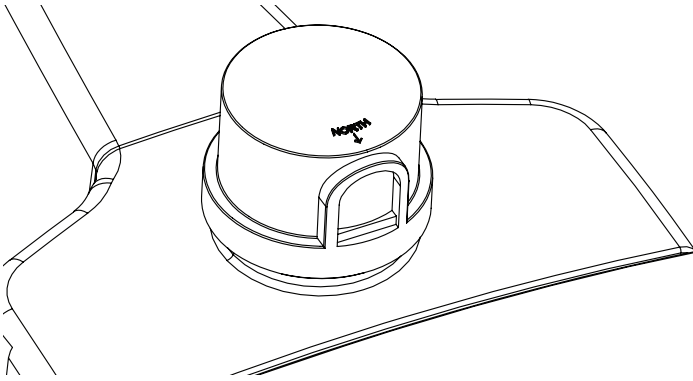
Adjustable Wall Mount (AWM)

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

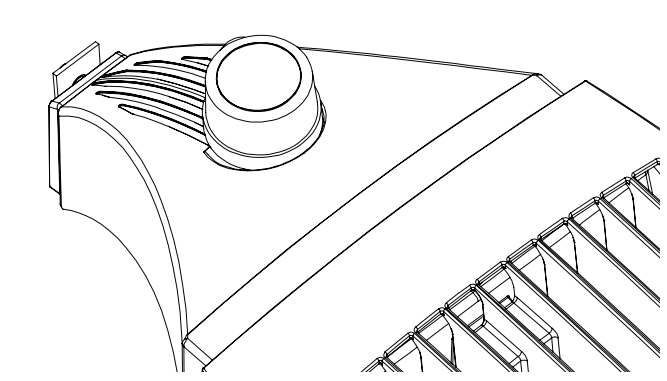


VMX-II Array - Serenity Lens LED Specifications

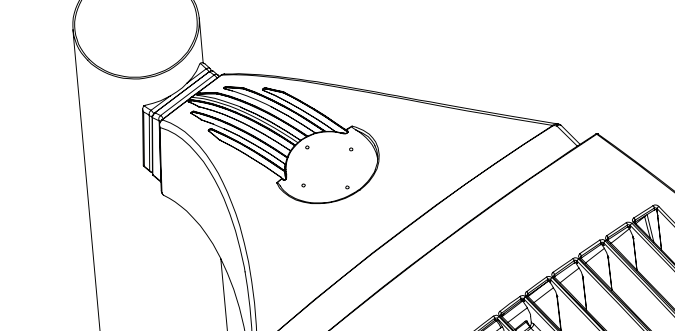
Twist lock Photocell & Receptacle - Dusk to dawn sensor.



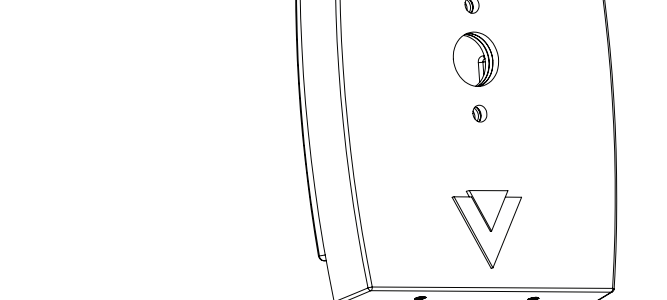
Photocell Receptacle and Shorting Cap



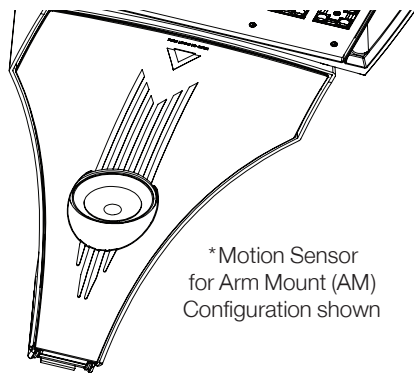
Round Pole Plate Adaptor (RPP) - Round Pole Plate Adaptor (RPP) to be used with round pole.



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

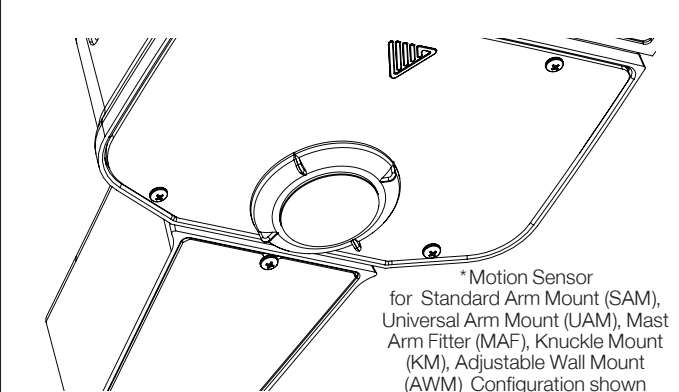


Motion Sensor -
*This option will require one FSIR 100 remote for programming.



*Motion Sensor for Arm Mount (AM) Configuration shown

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



*Motion Sensor for Standard Arm Mount (SAM), Universal Arm Mount (UAM), Mast Arm Fitter (MAF), Knuckle Mount (KM), Adjustable Wall Mount (AWM) Configuration shown

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

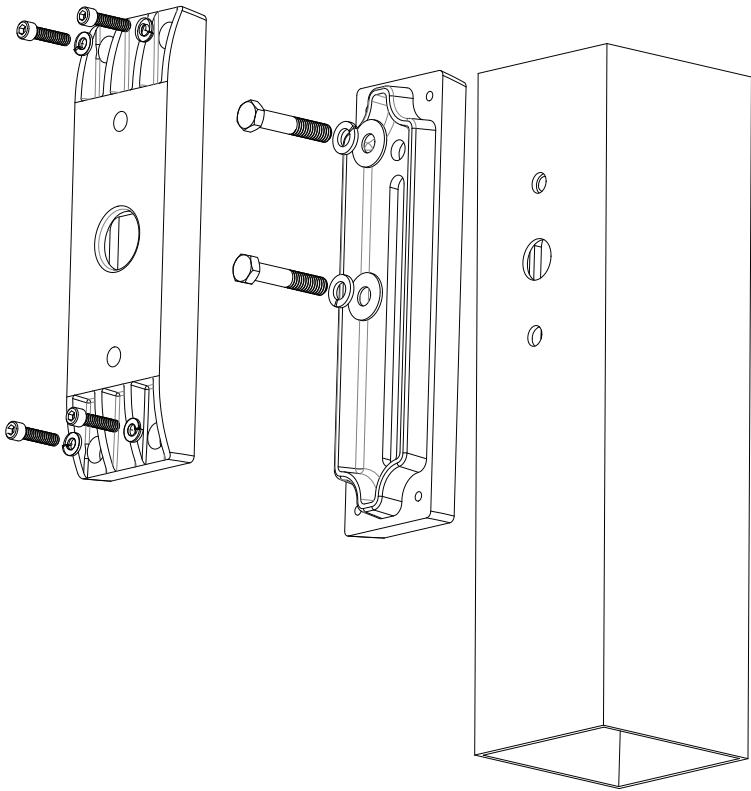
Lens Coverage Patterns:

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

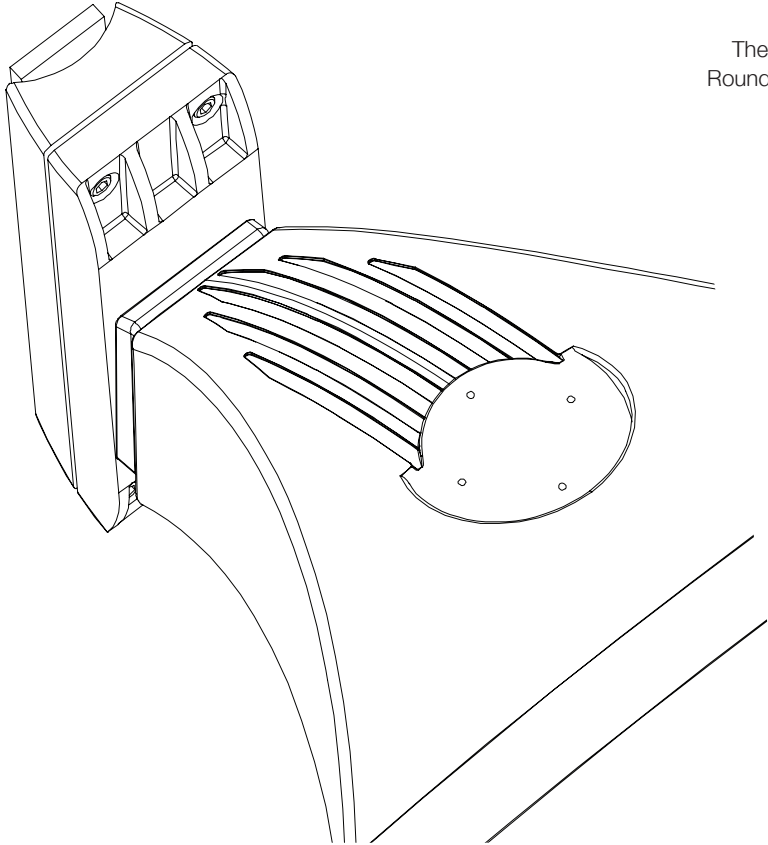
High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable

LED Specifications VMX-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.

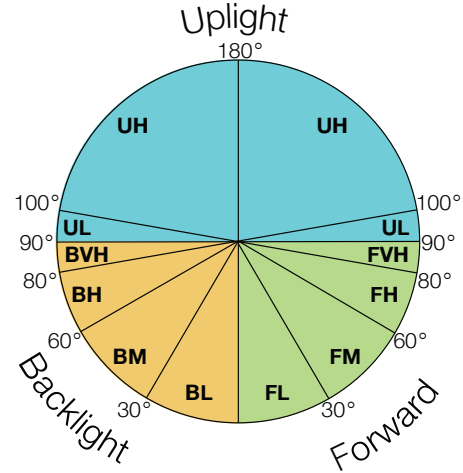
VMX-II Array - Serenity Lens Lightly Diffused Lens

VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 3K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	15947	16472	14614	14871	15409	139
20L	19211	19844	17606	17915	18564	167
23L	22516	23258	20635	20997	21757	201
26L	25374	26210	23254	23662	24519	230
30L	31515	32553	28881	29388	30452	290
33L	32732	33811	29997	30523	31629	310
36L	35206	36367	32265	32831	34020	344
VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 4K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	17285	17855	15841	16119	16702	139
20L	20823	21510	19084	19418	20122	167
23L	24406	25210	22366	22759	23583	201
26L	27504	28410	25206	25648	26577	230
30L	34159	35285	31305	31854	33008	290
33L	35479	36649	32515	33085	34284	310
36L	38161	39419	34973	35586	36875	344
VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 5K Lumen Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	17272	17841	15829	16106	16690	139
20L	20808	21493	19069	19404	20107	167
23L	24387	25191	22350	22742	23566	201
26L	27483	28389	25187	25629	26557	230
30L	34134	35259	31282	31830	32983	290
33L	35453	36621	32490	33060	34258	310
36L	38132	39389	34946	35559	36847	344
VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 3K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	115	119	105	107	111	139
20L	115	119	106	107	111	167
23L	112	115	102	104	108	201
26L	111	114	101	103	107	230
30L	105	108	96	98	101	290
33L	104	107	95	97	101	310
36L	103	106	94	96	99	344
VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 4K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	124	129	114	116	120	139
20L	125	129	114	116	121	167
23L	121	125	111	113	117	201
26L	120	124	110	112	116	230
30L	114	117	104	106	110	290
33L	113	116	103	105	109	310
36L	111	115	102	104	107	344
VMX-II Array - Serenity Lens - Lightly Diffused Lens (LDL) - 5K Lumen Per Watt Data						
LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	124	128	114	116	120	139
20L	125	129	114	116	121	167
23L	121	125	111	113	117	201
26L	120	124	110	112	116	230
30L	114	117	104	106	110	290
33L	113	116	103	105	109	310
36L	111	115	102	104	107	344

Lightly Diffused Lens **VMX-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.



VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	139
20L	4	0	4	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	4	3	0	3	3	0	3	3	0	3	4	0	2	201
26L	4	0	4	4	0	3	3	0	3	4	0	3	4	0	2	230
30L	4	0	4	4	0	4	4	0	4	4	0	4	5	0	3	290
33L	4	0	4	4	0	4	4	0	4	4	0	4	5	0	3	310
36L	5	0	5	4	0	4	4	0	4	4	0	4	5	0	3	344
VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	139
20L	4	0	4	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	4	4	0	3	3	0	3	3	0	3	4	0	2	201
26L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	230
30L	5	0	4	4	0	4	4	0	4	4	0	4	5	0	3	290
33L	5	0	5	4	0	4	4	0	4	4	0	4	5	0	3	310
36L	5	0	5	4	0	4	4	0	4	4	0	4	5	0	3	344
VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	139
20L	4	0	4	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	4	4	0	3	3	0	3	3	0	3	4	0	2	201
26L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	230
30L	5	0	4	4	0	4	4	0	4	4	0	4	5	0	3	290
33L	5	0	5	4	0	4	4	0	4	4	0	4	5	0	3	310
36L	5	0	5	4	0	4	4	0	4	4	0	4	5	0	3	344

VMX-II Array - Serenity Lens Highly Diffused Lens

VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 3K Lumen Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	15707	16260	14379	14495	15072	139
20L	18923	19588	17323	17463	18158	167
23L	22178	22958	20303	20467	21282	201
26L	24993	25873	22881	23065	23983	230
30L	31041	32133	28417	28646	29787	290
33L	32241	33375	29516	29753	30938	310
36L	34678	35898	31747	32002	33276	344

VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 4K Lumen Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	17025	17624	15586	15712	16337	139
20L	20511	21232	18777	18928	19682	167
23L	24039	24885	22007	22184	23068	201
26L	27091	28044	24801	25001	25996	230
30L	33646	34830	30802	31050	32287	290
33L	34946	36176	31993	32250	33534	310
36L	37588	38911	34411	34688	36069	344

VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 5K Lumen Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	17013	17611	15575	15700	16325	139
20L	20495	21216	18763	18914	19667	167
23L	24021	24866	21991	22168	23050	201
26L	27070	28023	24782	24982	25977	230
30L	33621	34804	30779	31027	32262	290
33L	34920	36149	31969	32226	33509	310
36L	37560	38881	34385	34662	36042	344

VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 3K Lumen Per Watt Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	113	117	104	104	109	139
20L	114	118	104	105	109	167
23L	110	114	101	102	106	201
26L	109	113	100	100	104	230
30L	103	107	95	95	99	290
33L	102	106	94	95	98	310
36L	101	105	93	93	97	344

VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 4K Lumen Per Watt Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	123	127	112	113	118	139
20L	123	127	113	114	118	167
23L	119	124	109	110	115	201
26L	118	122	108	109	113	230
30L	112	116	103	103	107	290
33L	111	115	102	103	107	310
36L	110	113	100	101	105	344

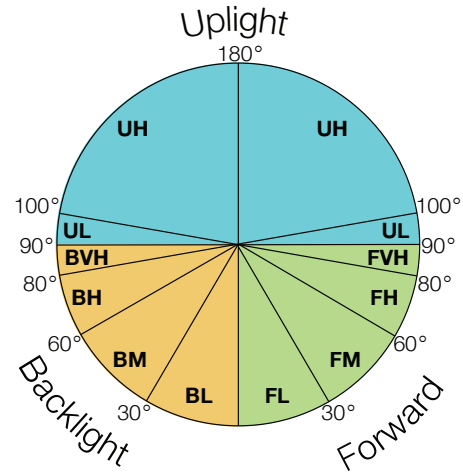
VMX-II Array - Serenity Lens - Highly Diffused Lens (HDL) - 5K Lumen Per Watt Data

LUMENS	T1	T2	T3L	T4L	T5LS	WATTS
17L	122	127	112	113	118	139
20L	123	127	113	113	118	167
23L	119	123	109	110	114	201
26L	118	122	108	109	113	230
30L	112	116	102	103	107	290
33L	111	115	102	102	107	310
36L	109	113	100	101	105	344

Highly Diffused Lens **VMX-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.



VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	139
20L	4	0	3	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	3	4	0	3	4	0	3	3	0	3	4	0	2	201
26L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	230
30L	5	0	4	4	0	3	4	0	3	4	0	3	4	0	2	290
33L	5	0	4	4	0	3	4	0	3	4	0	3	5	0	2	310
36L	5	0	4	4	0	4	4	0	4	4	0	3	5	0	3	344
VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	139
20L	4	0	3	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	201
26L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	230
30L	5	0	4	4	0	4	4	0	3	4	0	3	5	0	2	290
33L	5	0	4	4	0	4	4	0	3	4	0	3	5	0	3	310
36L	5	0	4	5	0	4	4	0	4	4	0	4	5	0	3	344
VMX-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	
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	139
20L	4	0	3	3	0	3	3	0	3	3	0	3	4	0	2	167
23L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	201
26L	4	0	4	4	0	3	4	0	3	4	0	3	4	0	2	230
30L	5	0	4	4	0	4	4	0	3	4	0	3	5	0	2	290
33L	5	0	4	4	0	4	4	0	3	4	0	3	5	0	3	310
36L	5	0	4	5	0	4	4	0	4	4	0	4	5	0	3	344