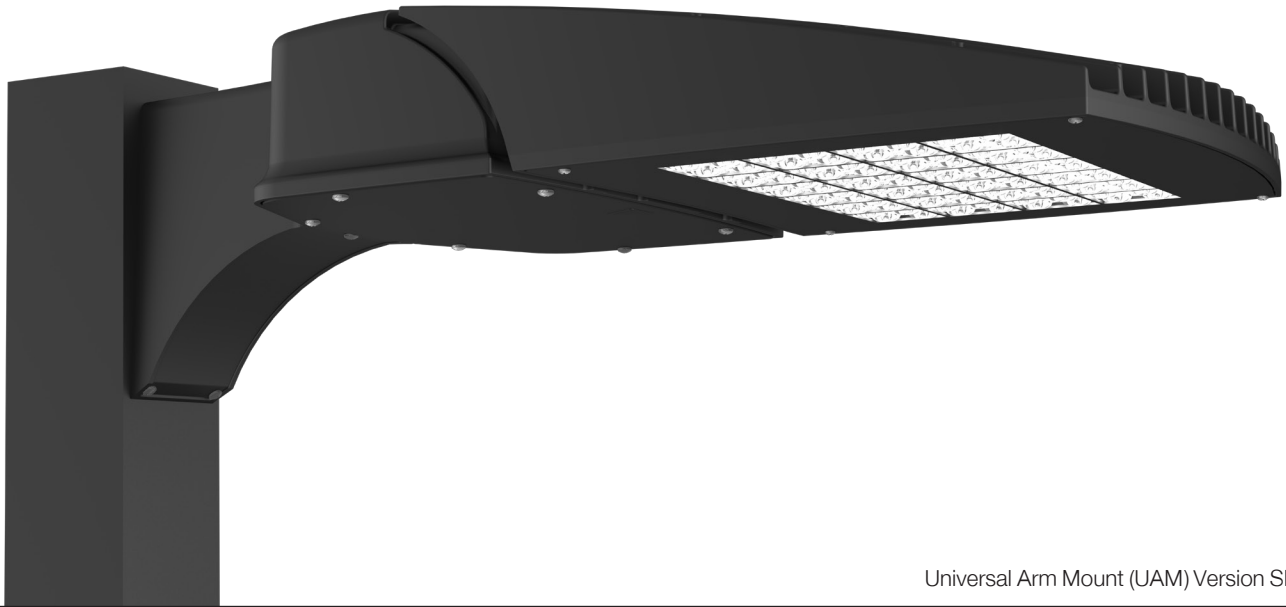


VMX-II-TS LED Specifications

Wildlife Certified

Area - Site - Commercial - Outdoor



Universal Arm Mount (UAM) Version Shown

The VMX-II LED Series offers clean, functional styling defined by its sleek, low-profile design and rugged construction. It combines the latest LED technology with 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. Easy tool-less access for mounting and maintenance.

Seventeen optical distribution patterns are available. Furthermore, the durable polyester powder coat finish is guaranteed for five years and comes in standard or custom colors. Our Turtle Safe and Wildlife Certified LEDs operates at 590nm.

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

The VMX-II LED series is an ideal choice for commercial parking lots, office complexes, architectural projects, municipal educational 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
VMX-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 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	48LD 64LD 80LD 96LD	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 SAM Straight Arm Mount W/ Terminal Block (New Construction) UAM Universal Arm Mount W/ Terminal Block (Retrofit) MAF Mast Arm Fitter KM Knuckle Mount WM Wall Mount * Requires BAWP AWM Adjustable Wall Mount *Round Pole Plate Adapters (RPP) are to be ordered separately. *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' Mounting Height 9-20' Mounting Height 21-40' Mounting 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	ECLS Egg Crate Louver Shield ADJLS Adjustable Louver Light Shield BD Barn Door Shield 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	RPP-3" RPP-4" RPP-5" Round Pole Plate Adapter BAWP Cast Wall Plate UMAP Universal Mast arm fitter UPMA-S Universal Square Pole Mount Adapter UPMA-R Universal Round Pole Mount Adapter 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 EBPL Emergency Battery Pack * Universal Voltage only Rated for 20° to 50° C * Not available in Up Light Orientation

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 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 VMX-II series LEDs have been determined to last 100,000+ hours in 25° C environments when driven at 350 mA.

Optical System

The highest lumen output, LEDs are utilized in the VMX - II Series. LED light engines come in multiples of 16 LEDs.

- Available with 17 IES distribution patterns.
- 590nm wavelength are available.

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 VMX II Series is supplied with a choice of 350, 530mA 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 on AM, SAM, MAF and UAM

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
- D4i DALI Driver
- Photocell & Receptacle
- Photo Receptacle (PER) (5/7PINPER) (PCR)
- Motion Sensor FSP-211 Title 24 Compliant (WSC)
- 7-Pin Twist-lock wireless controll (TL7)
- Wireless Controls
- Back House Shield (BHS)
- Cut-Off Louver Shield (CLS)
- Universal Mast Arm Fitter (UMAP)
- Egg Crate Louver Shield (ECLS)
- Adjustable Louver Light Shield (ADJLS)
- Barn Door Shield (BD)
- Round pole plate adaptor (RPP)
- Zhaga 4 Pin Receptacle
- Bird Spikes
- BAA / BABA

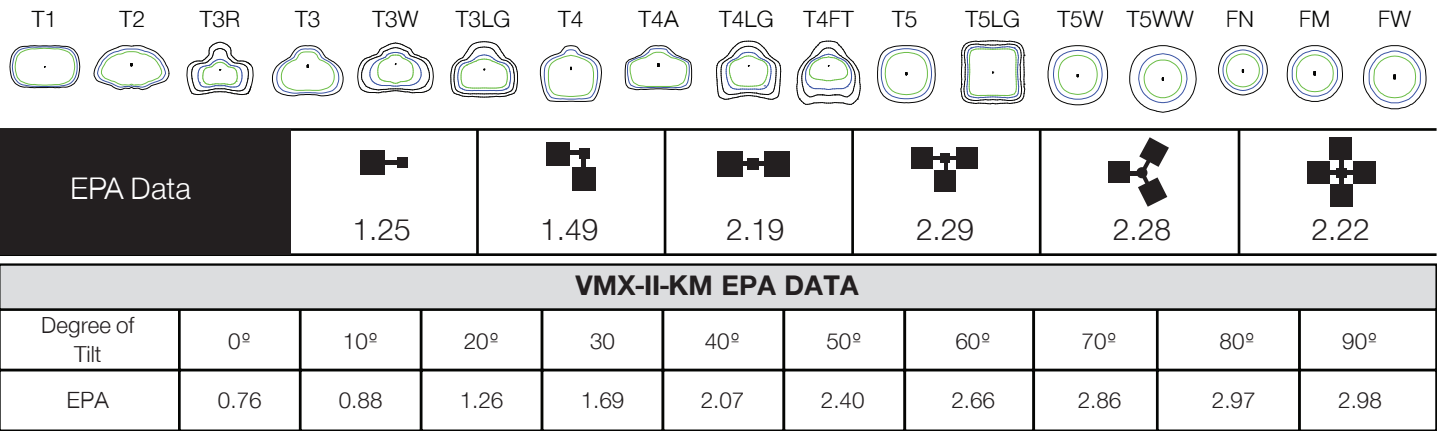
Listings

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



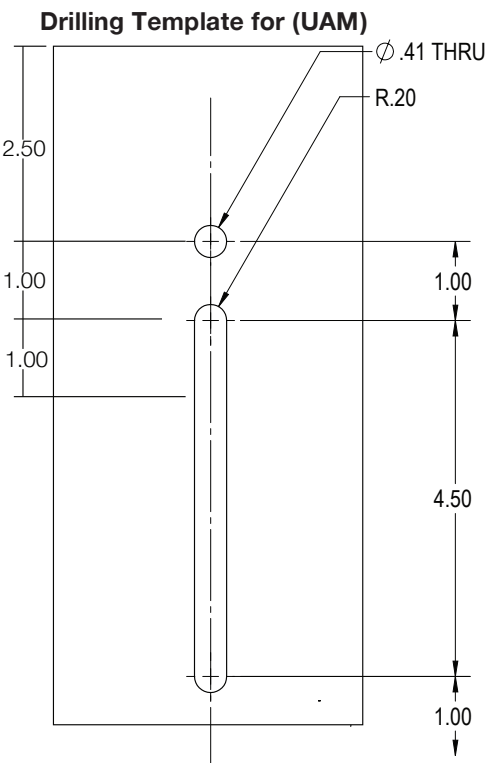
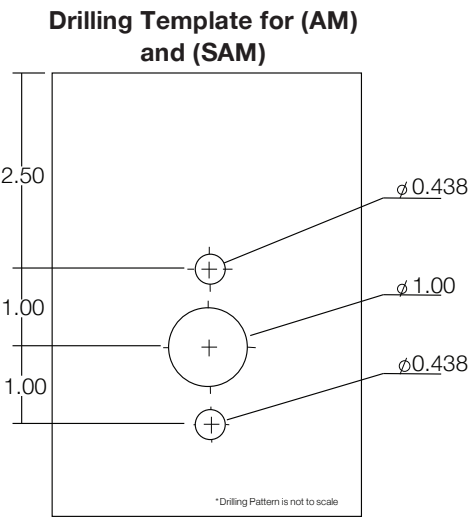
3000K or lower must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

Photometric Optical Summary



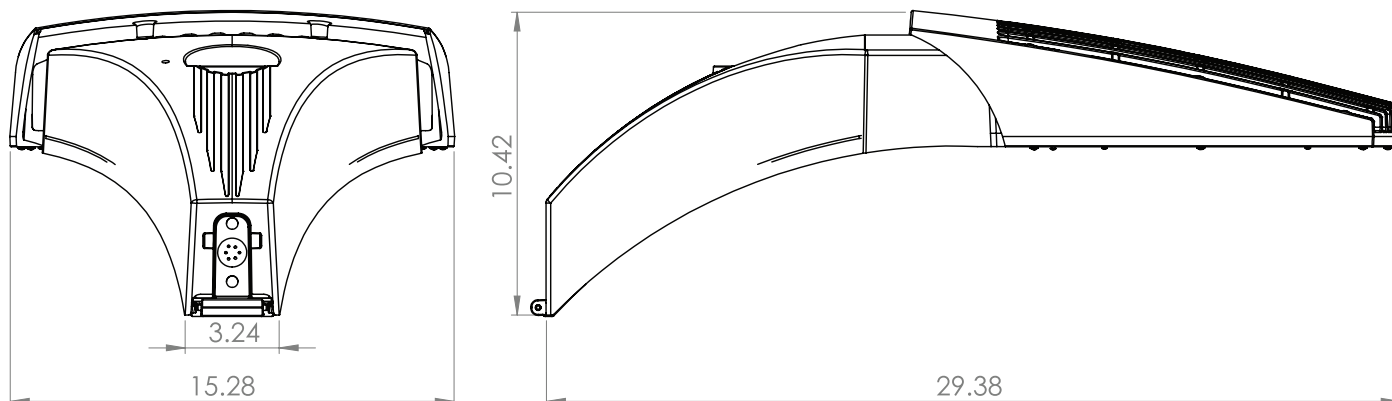
Dimensions

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



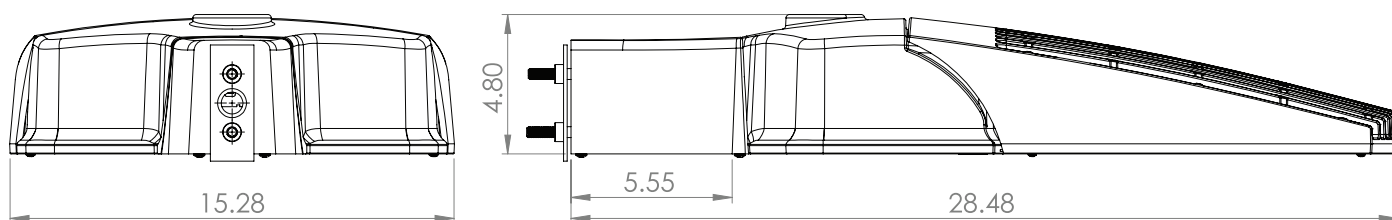
Arm Mount (AM)

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.



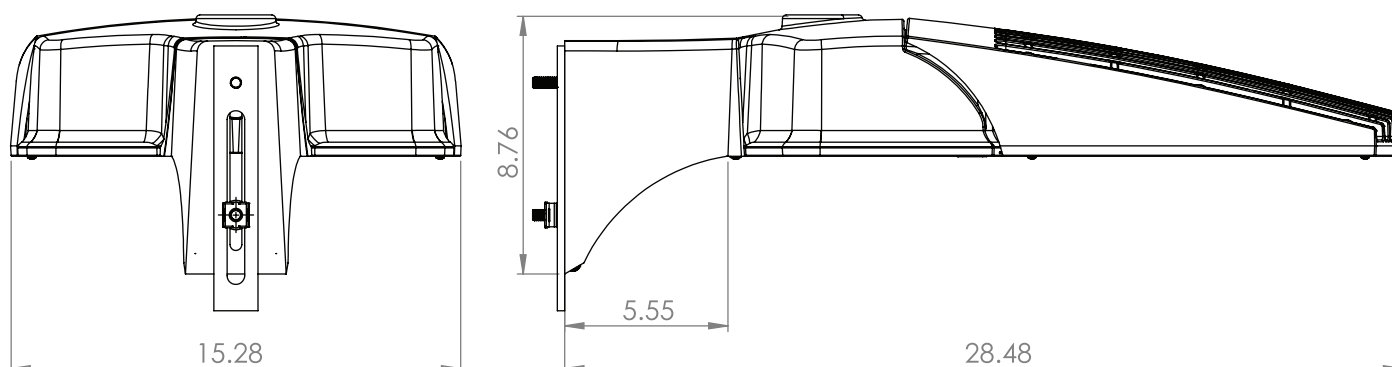
Straight Arm Mount (SAM)

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.



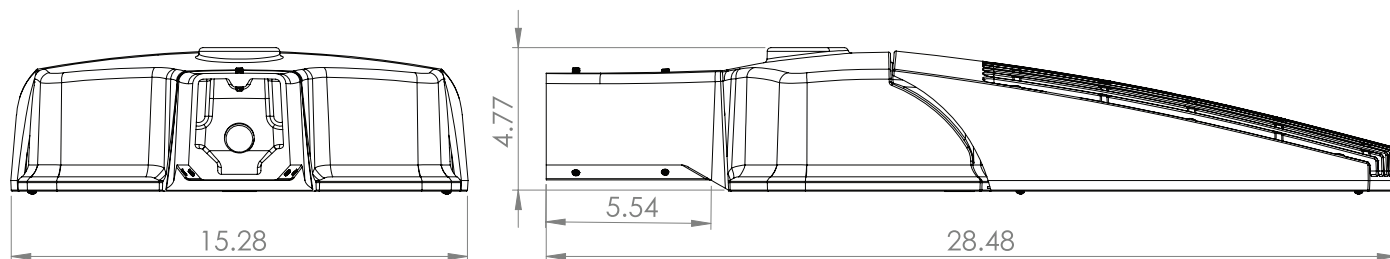
Universal Arm Mount (UAM)

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.



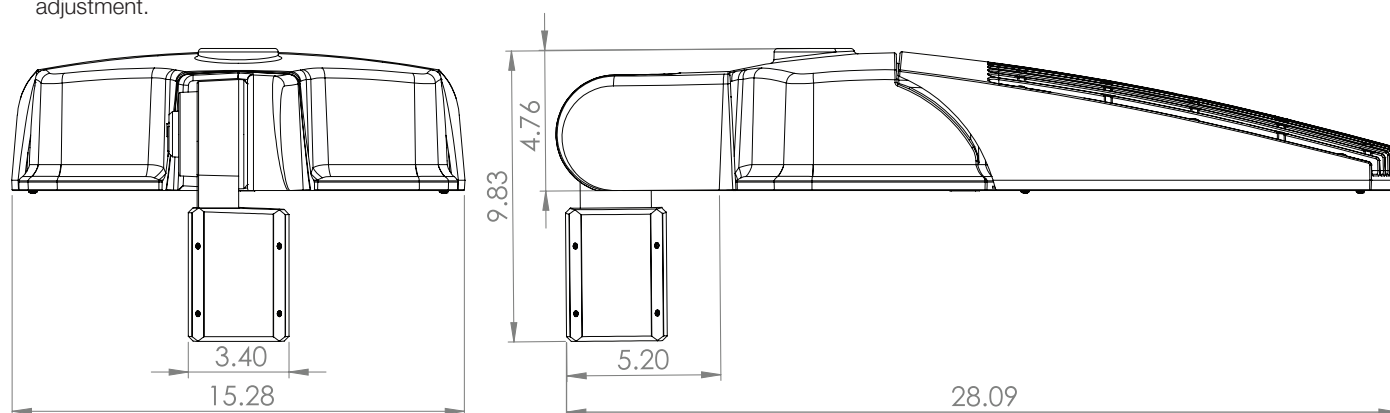
Mast Arm Fitter (MAF)

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



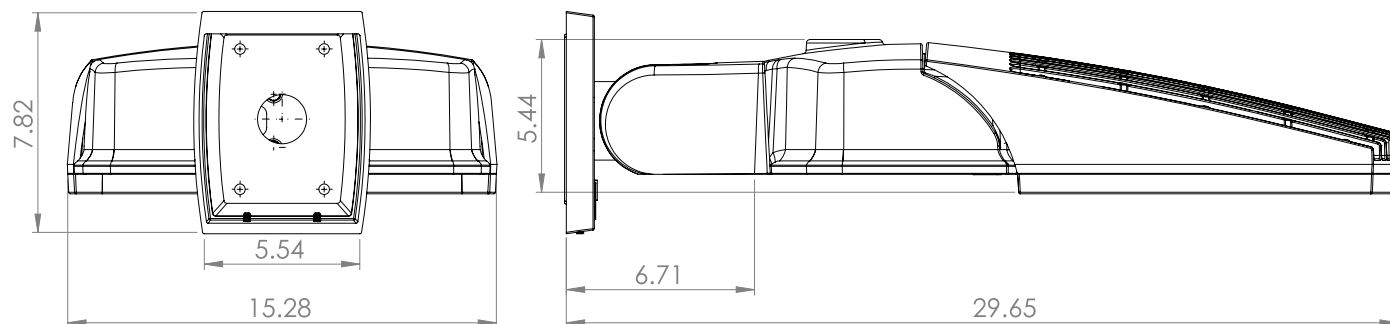
Knuckle Mount (KM)

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.



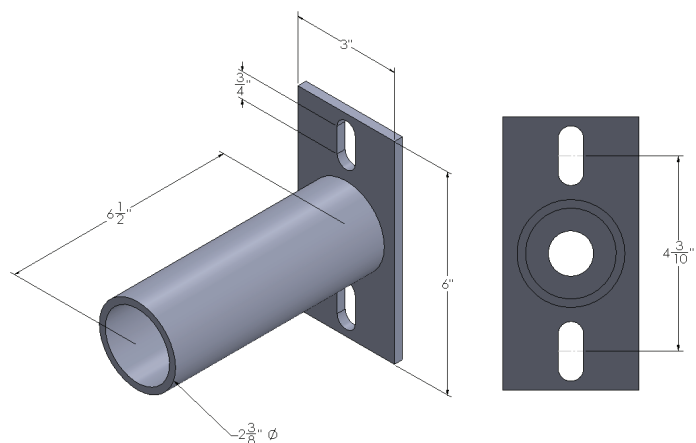
Adjustable Wall Mount (AWM)

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

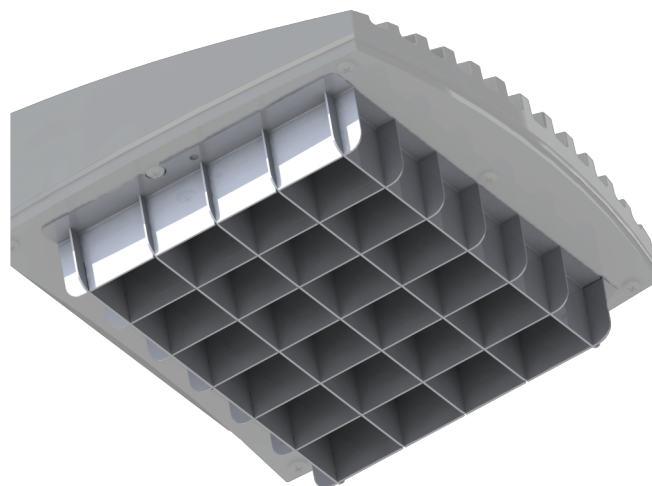


Universal Mast Arm Fitter

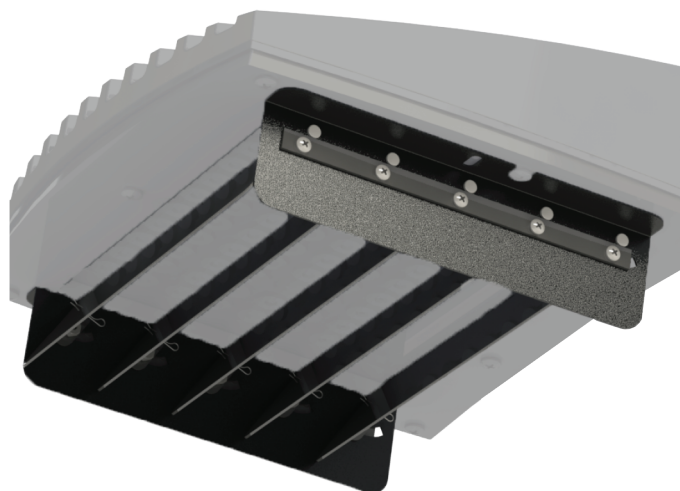
UMAP – The Universal Mast Arm Fitter is a simple solution for retrofit applications where a fixture needs to mount to an existing pole, the UMAP is meant to be use to with knuckle mounts and also Mast Arm Fitters. The UMAP has a bolt slot ranging from 7" all the way down to 3.5". The UMAP also has a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



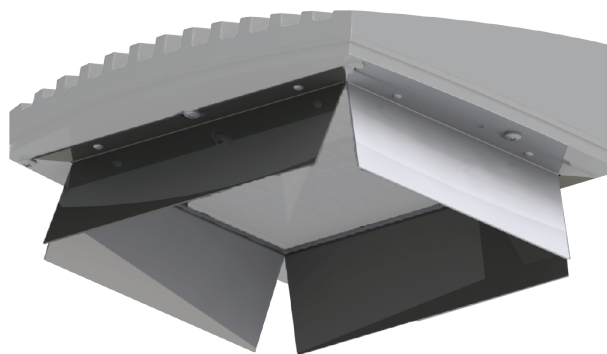
Egg Crate Light Shield



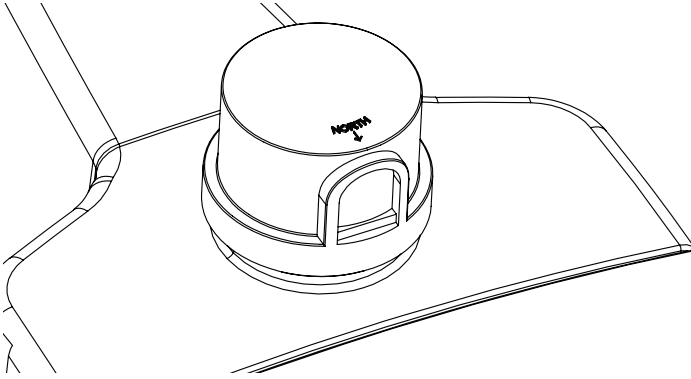
Adjustable Louver Light Shield



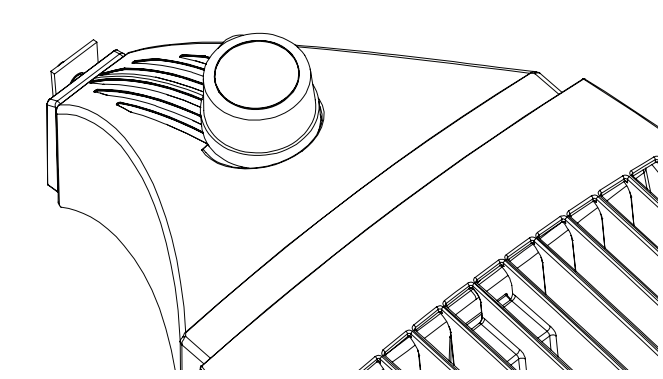
Barn Door Light Shield



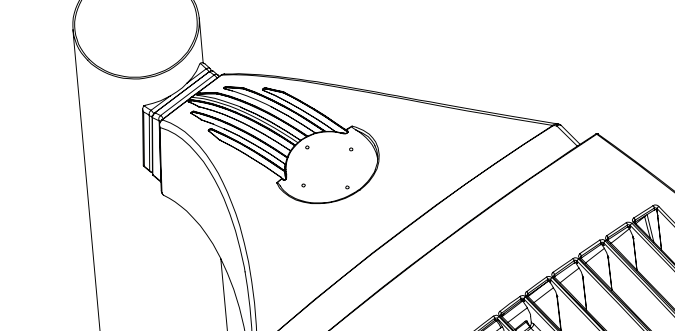
Twist lock Photocell & Receptacle - Dusk to dawn sensor.



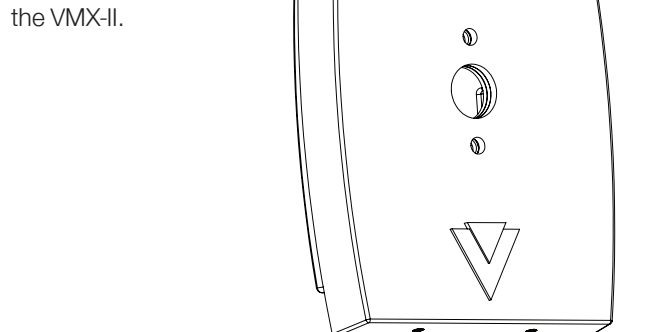
Photocell Receptacle and Shorting Cap



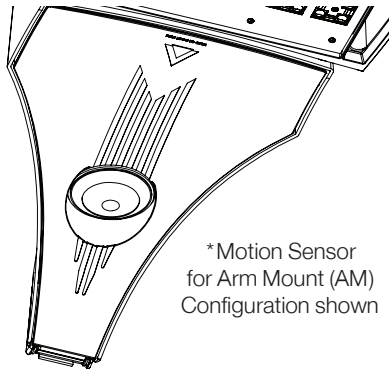
Round Pole Plate Adaptor (RPP) - Round Pole Plate Adaptor (RPP) to be used with round pole.



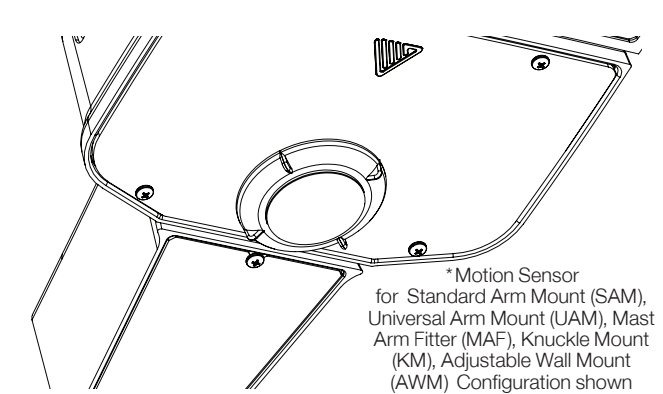
Cast Wall Plate - Arm Mount Wall Plate is needed to wall mount the VMX-II.



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



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



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

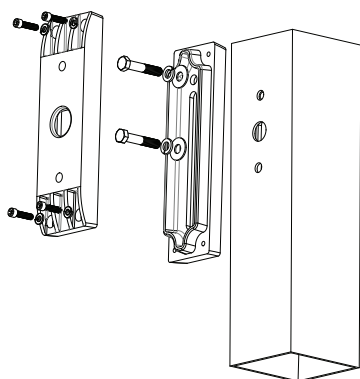
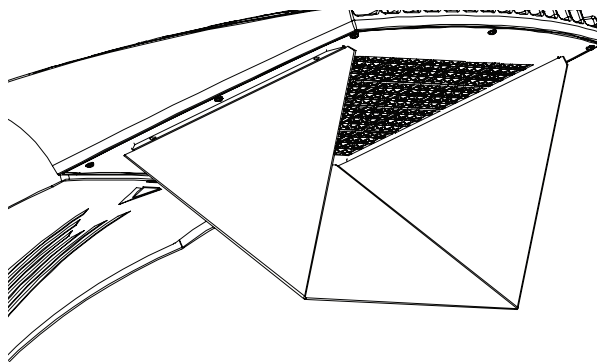
Lens Coverage Patterns:

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

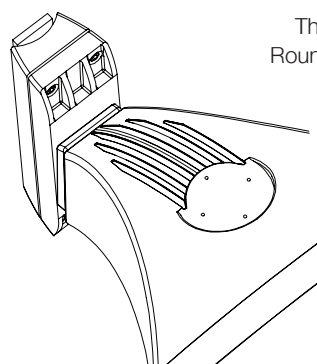
High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable

House Shield - Provides solid back light cutoff



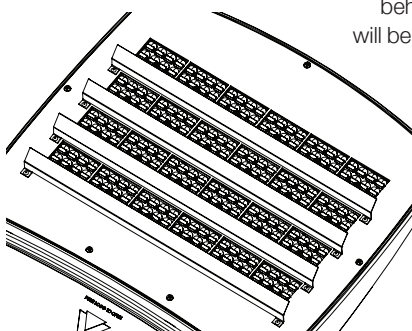
UPMA

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

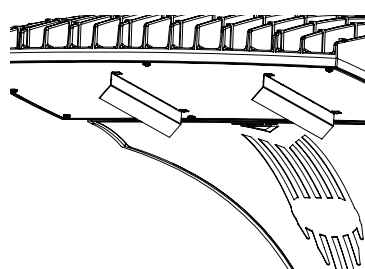
The Universal Pole Mount Adaptor Round is ideal for retrofit applications with existing round poles. This adaptor is slotted to fit any existing drilling pattern, up to 6 1/2" bolt to bolt maximum.



CLS

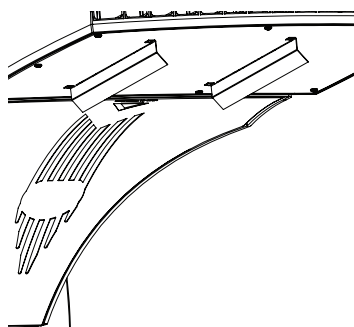
The Back Side Cutoff Louver Shield will reduce light output behind the fixture, all of the light will be focused in front of the VMX.

*Not to be used with KM



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 VSX.

*Not to be used with KM



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 VSX.

*Not to be used with KM

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



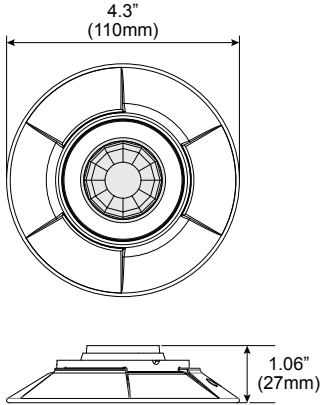
FSP-221



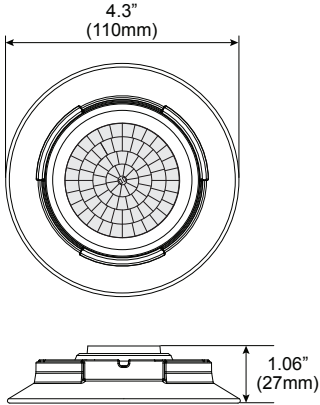
Lens with Shroud Dimensions

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

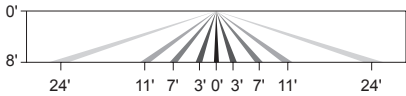
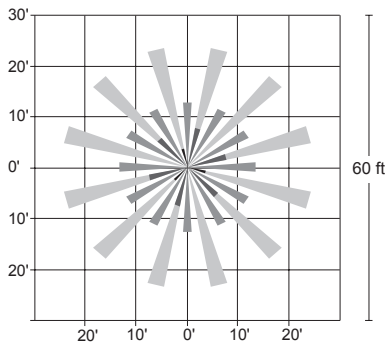
FSP-L2-S and FSP-L3-S



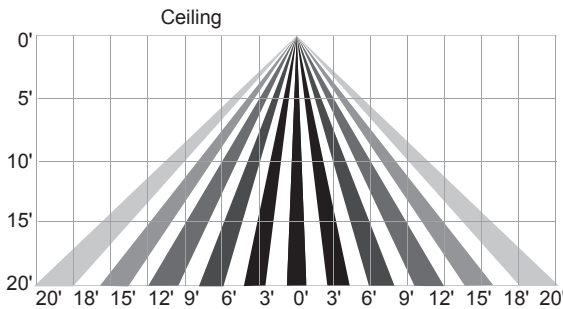
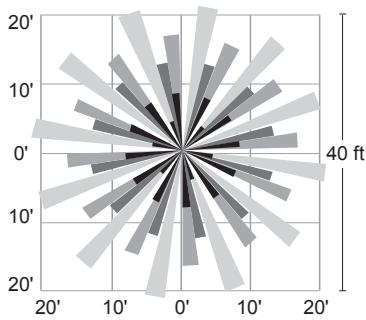
FSP-L7-S



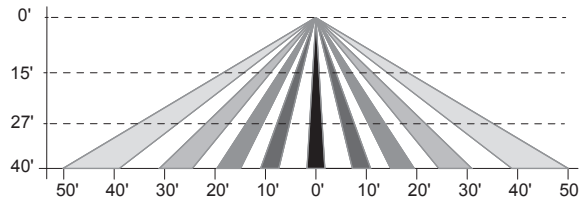
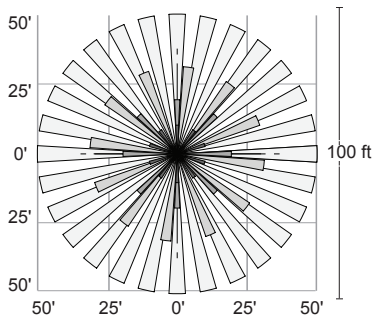
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

TS AMBER LUMENS																				
MODEL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T4FT	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
VMX-II	48	350	3592	3559	3581	3554	3588	3582	3523	3742	3571	3627	3706	3606	3603	3429	3701	3733	3786	40
		530	4536	4495	4522	4488	4530	4522	4449	4726	4509	4580	4680	4554	4550	4329	4674	4714	4780	63
	64	350	4790	4746	4775	4739	4784	4775	4698	4990	4761	4837	4941	4808	4804	4572	4935	4978	5048	53
		530	6048	5993	6029	5984	6040	6030	5932	6301	6012	6107	6240	6072	6067	5773	6231	6286	6374	84
	80	350	5987	5932	5969	5923	5980	5969	5872	6237	5952	6046	6177	6010	6006	5714	6169	6222	6309	67
		530	7560	7491	7537	7480	7551	7537	7415	7876	7515	7634	7799	7589	7583	7216	7789	7857	7967	105
	96	350	7184	7119	7162	7108	7176	7163	7047	7485	7142	7255	7412	7212	7207	6857	7402	7467	7571	80
		530	9072	8989	9044	8975	9061	9045	8898	9451	9018	9161	9359	9107	9100	8659	9347	9428	9560	126

TS AMBER LPW																				
MODEL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T4FT	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
VMX-II	48	350	90	89	90	89	90	90	88	94	89	91	93	90	90	86	93	94	95	40
		530	72	71	72	71	72	72	70	75	71	72	74	72	72	68	74	75	76	63
	64	350	90	89	90	89	90	90	88	94	89	91	93	90	90	86	93	94	95	53
		530	72	71	72	71	72	72	70	75	71	72	74	72	72	68	74	75	76	84
	80	350	90	89	90	89	90	90	88	94	89	91	93	90	90	86	93	94	95	67
		530	72	71	72	71	72	72	70	75	71	72	74	72	72	68	74	75	76	105
	96	350	90	89	90	89	90	90	88	94	89	91	93	90	90	86	93	94	95	80
		530	72	71	72	71	72	72	70	75	71	72	74	72	72	68	74	75	76	126

			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						
VMX-II	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	1	0	1	1	0	2	0	1	2	0	1	2	0	1	3	0	1	3	0	1	2	0	1				
		530	3	0	3	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	1	2	0	1	3	0	1	3	0	1	2	0	1						
	64	350	3	0	3	1	0	2	1	0	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	2	2	0	1	2	0	1	3	0	1	3	0	1	3	0	1	2	0	1			
		530	3	0	3	2	0	2	2	0	2	1	0	1	1	0	2	2	0	1	2	0	1	2	0	1	1	0	1	1	0	1	3	0	1	3	0	1	3	0	1	3	0	1	2	0	1						
	80	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	1	0	1	1	0	2	3	0	1	3	0	1	3	0	1	3	0	1	3	0	1	2	0	1			
		530	3	0	3	2	0	2	2	0	2	1	0	1	1	0	2	2	0	2	2	0	2	2	0	2	2	0	1	2	0	2	3	0	1	3	0	1	3	0	1	3	0	1	3	0	1	2	0	1			
	96	350	3	0	3	2	0	2	2	0	2	1	0	2	1	0	2	2	0	1	2	0	2	2	0	2	2	0	1	2	0	2	3	0	1	3	0	1	3	0	1	3	0	2	4	0	1	3	0	1			
		530	3	0	3	2	0	3	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	3	0	1	3	0	2	4	0	1	4	0	1	3	0	1			

BSX-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
VMX-II-48LD-3	40	0.33	0.19	0.17	0.14	0.12	0.08
VMX-II-48LD-5	63	0.53	0.30	0.26	0.23	0.18	0.13
VMX-II-64LD-3	53	0.44	0.25	0.22	0.19	0.15	0.11
VMX-II-64LD-5	84	0.70	0.40	0.35	0.30	0.24	0.18
VMX-II-80LD-3	67	0.56	0.32	0.28	0.24	0.19	0.14
VMX-II-80LD-5	105	0.88	0.50	0.44	0.38	0.30	0.22
VMX-II-96LD-3	80	0.67	0.38	0.33	0.29	0.23	0.17
VMX-II-96LD-5	126	1.05	0.61	0.53	0.45	0.36	0.26
ELECTRICAL LOAD DATA IS ESTIMATED							

