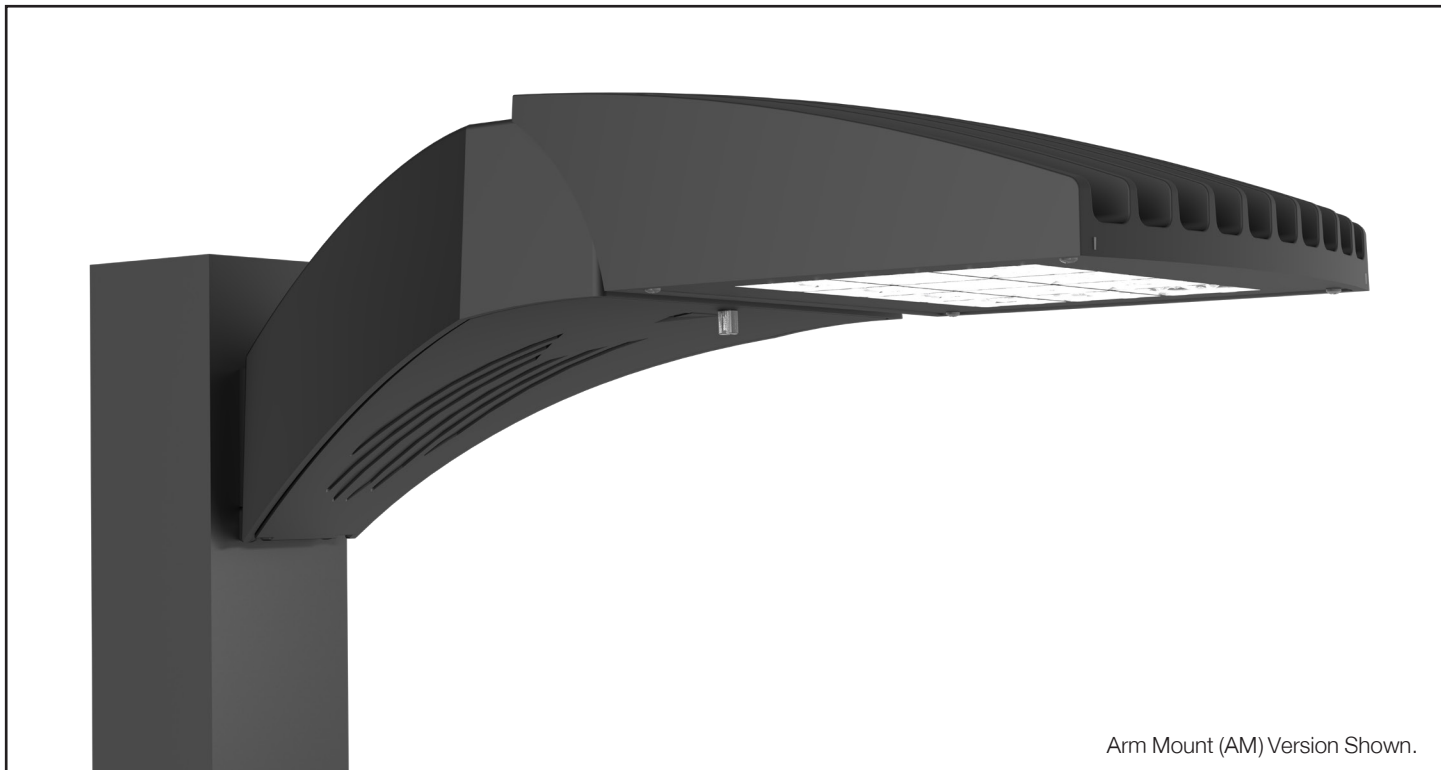


VSX-II LED Specifications

Area - Site - Commercial - Outdoor



Arm Mount (AM) Version Shown.

The VSX-II 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 cast aluminum housings. Easy captive screw access for mounting and maintenance.

The LED light assemblies come with 16 to 48 LEDs. Available with 17 IES distribution patterns.

- CRI values are 70, 80 or 90.
- CCT values are 2700K, 3000K, 3500K, 4000K, 5000K

The VSX-II Series offers an impressive output of up to 23,000 lumens with a wattage package reaching up to 181 watts, delivering an average efficiency of 143 lumens per watt. With integrated controls, the VSX-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 VSX-II 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:

MODEL	OPTICS		LEDs	CURRENT	CCT
VSX-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 7 700mA 10 1050mA 12 1200mA	27K7 27K8 27K9 2700K 70, 80, & 90 CRI 30K7 30K8 30K9 3000K 70, 80, & 90 CRI 35K7 35K8 35K9 3500K 70, 80, & 90 CRI 40K7 40K8 40K9 4000K 70, 80, & 90 CRI 50K7 50K8 50K9 5000K 70, 80, & 90 CRI

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 DTO Dim to Off 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 programing 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 HS 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

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 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 VSX-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 VSX-II series. Seventeen distribution Types are available. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution.

- CRI values are 70, 80 or 90.
- CCT values are 2700K, 3000K, 3500K, 4000K, 5000K

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.

- Optional Zinc-Free Primer - Recommended within three miles of the ocean
- Finish is guaranteed for five (5) years.

Electrical Assembly

The VSX-II LED series is supplied with a choice of 350, 530, 700, 1050 or 1200 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, 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
- Photocell & Receptacle
- 7 Pin Photo Receptacle
- 0-10v Dimming Driver
- Dim To Off Driver
- Wireless Controls
- Zhaga 4 Pin Receptacle
- Round pole plate adapter
- Universal Pole Mount Adapter
- Cast Wall Plate
- Rotated Optics
- Cut-off Louver Shield
- Bird Spikes
- BAA

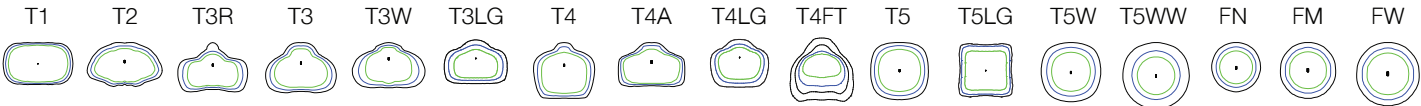
Listings

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



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



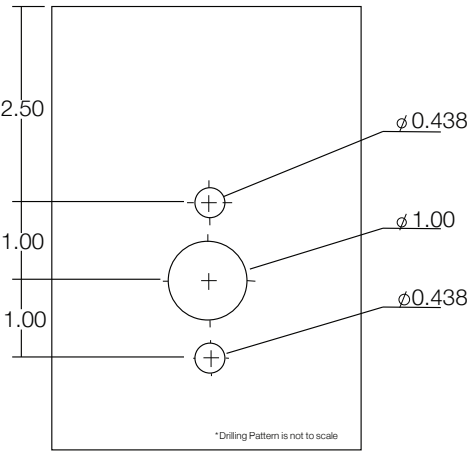
EPA Data						
	0.58	.92	1.16	1.45	1.40	1.48

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

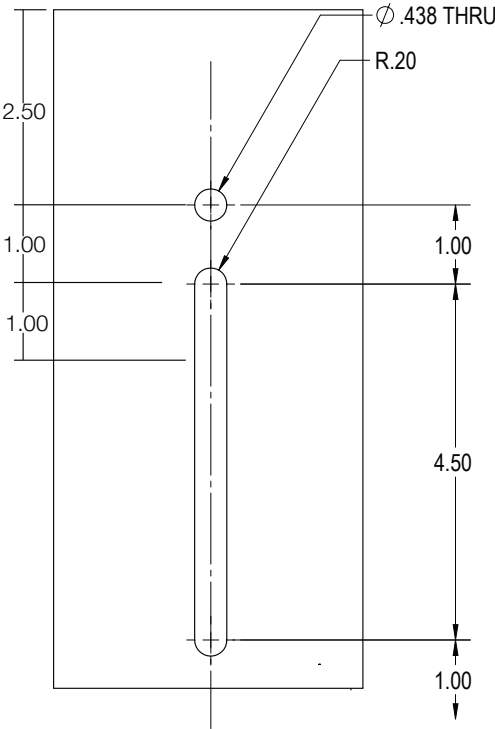
Dimensions

Width:	VSX-II 12.5"
Depth:	VSX-II 23"
Height:	VSX-II 4"
Overall Height:	VSX-II 8"
Weight:	25 LBS

Drilling Template for (AM) and (SAM)

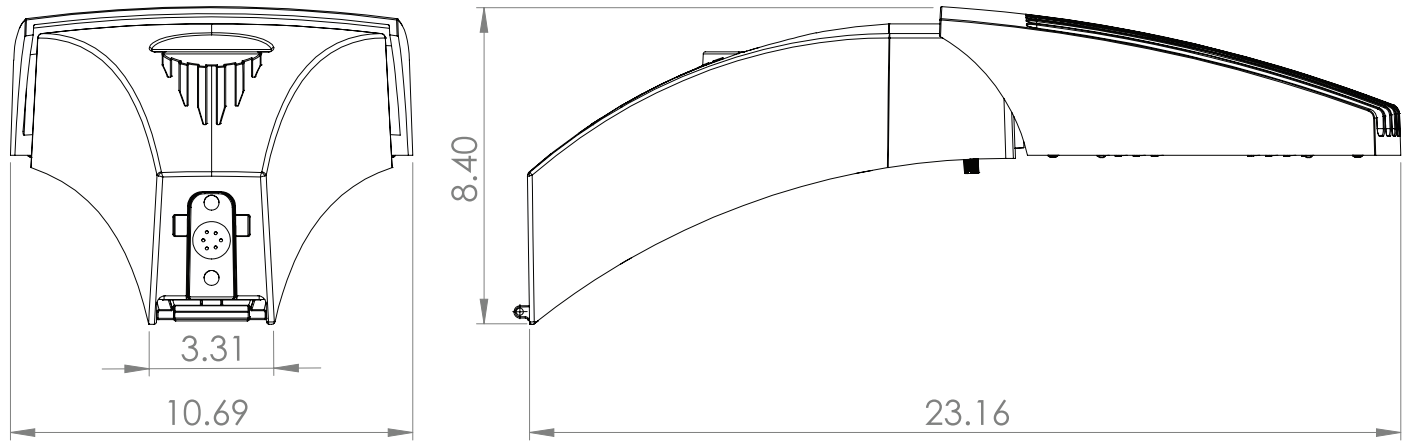


Drilling Template for (UAM)

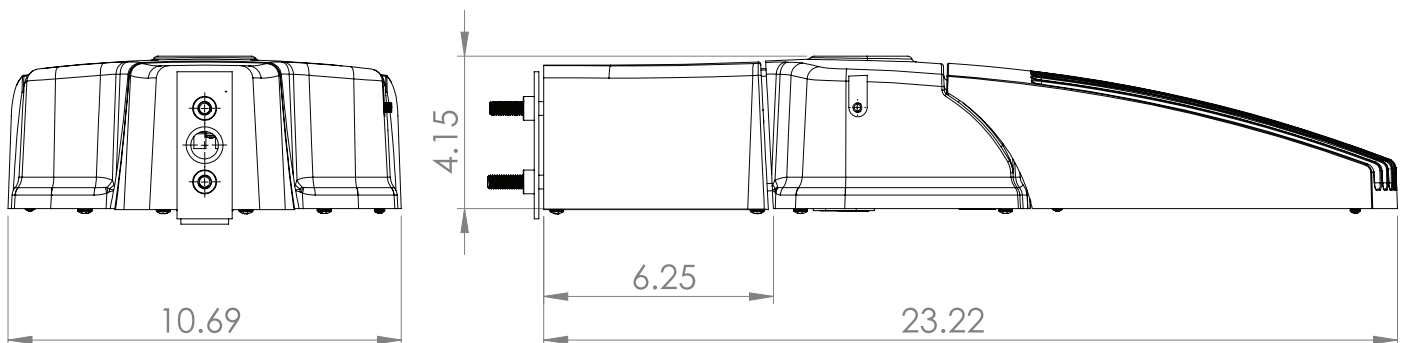


Arm Mount (AM)

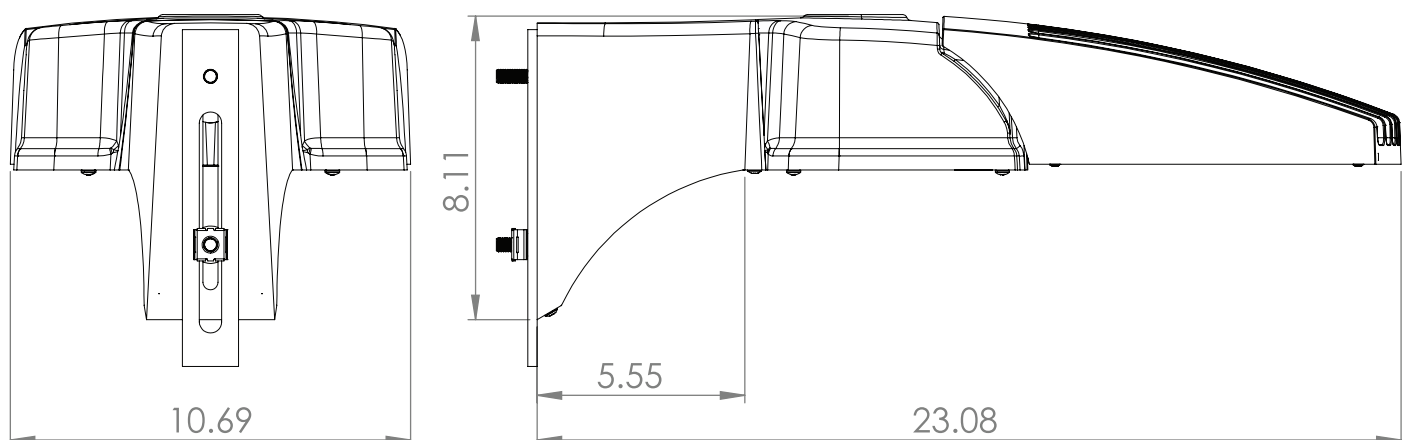
The Arm Mount (AM) utilizes a 2 piece cleat system for easy installation, a terminal block is supplied as standard. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.

**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.

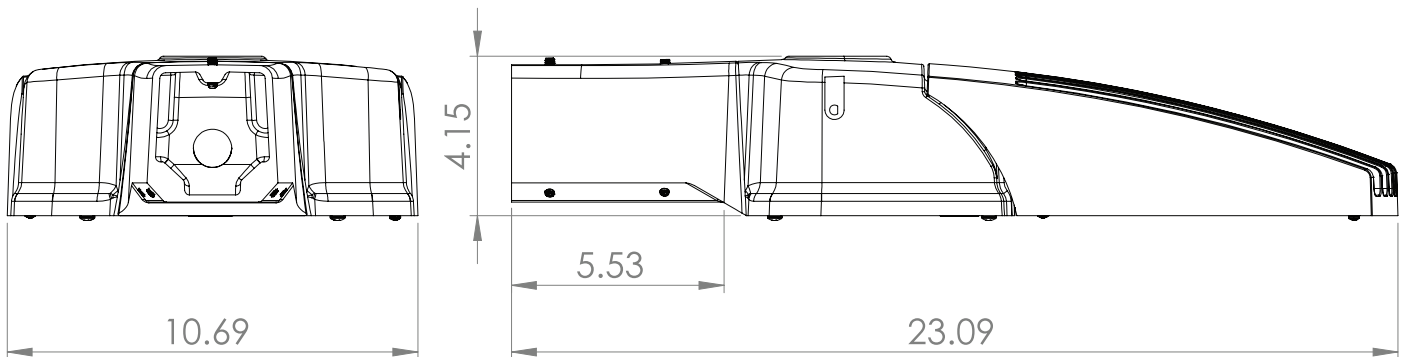
**Universal Arm Mount (UAM)**

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.

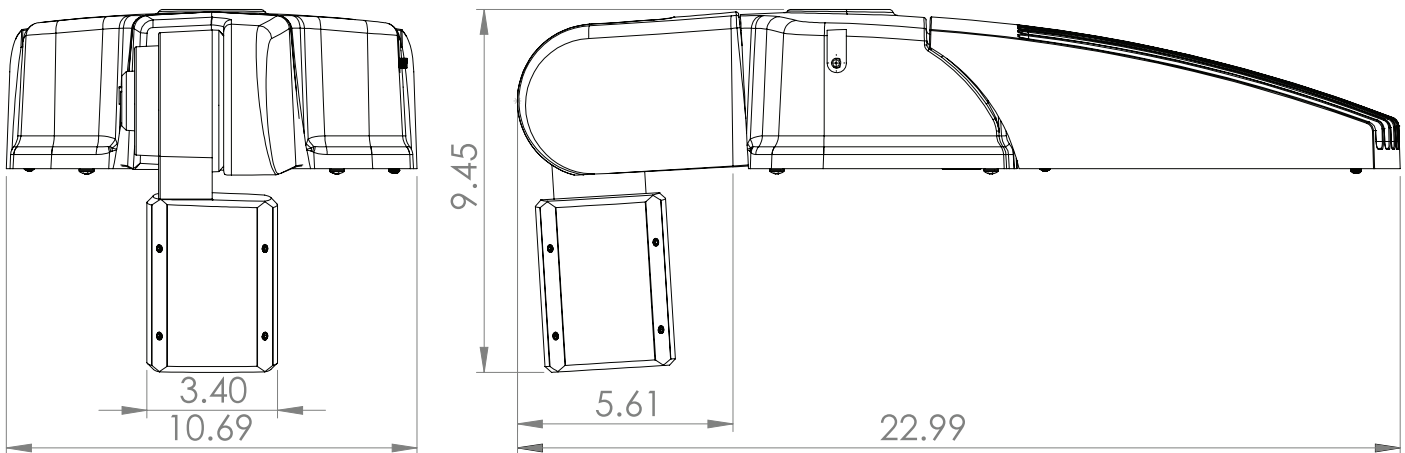


Mast Arm Fitter (MAF)

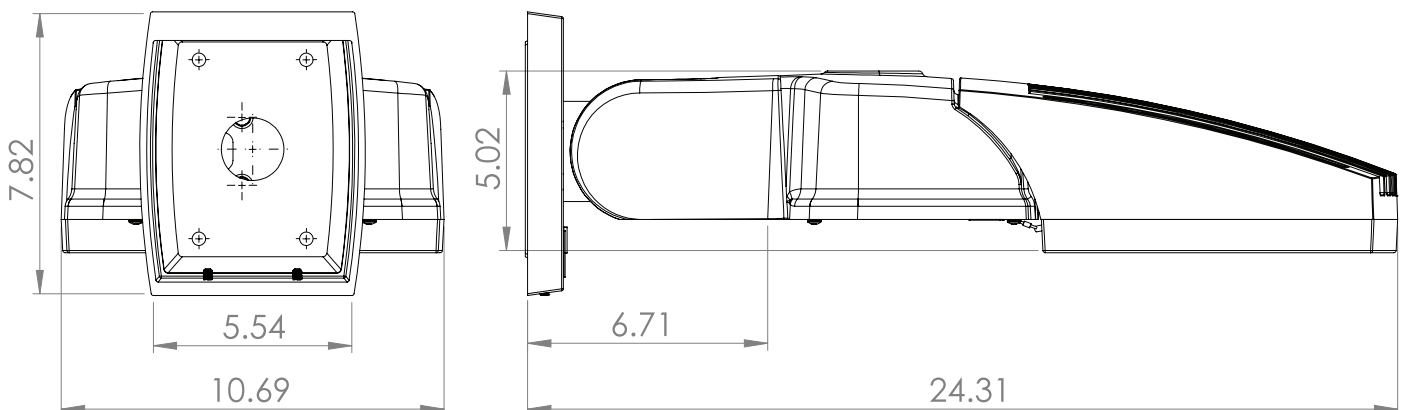
Mast Arm Fitter fits over a 1 5/8" - 2 3/8" tenon.

**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)**

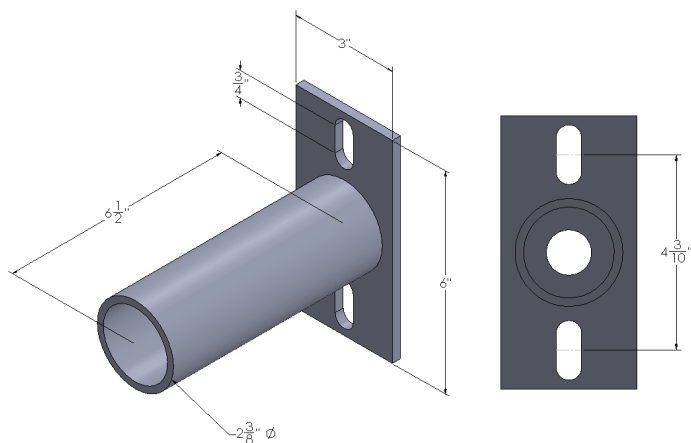
Wall Mount - Adjustable up to 50° in 10° increments.



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.



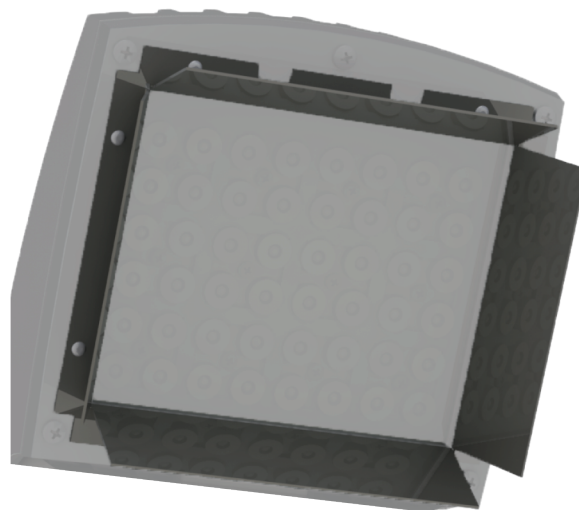
Egg Crate Light Shield



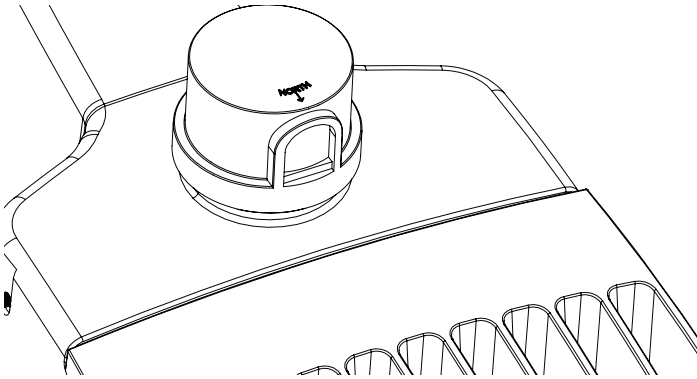
Adjustable Louver Light Shield



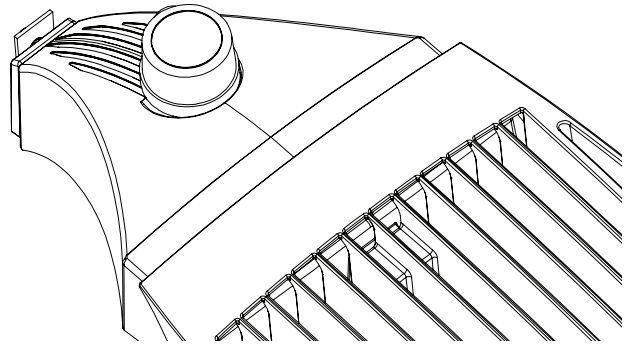
Barn Door Light Shield



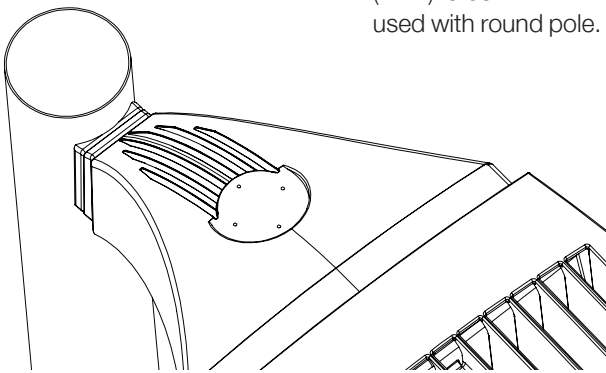
Twist lock Photocell & Receptacle - Dusk to dawn sensor.



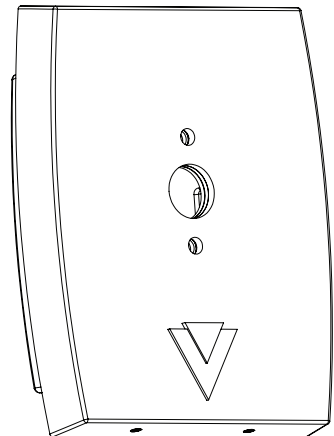
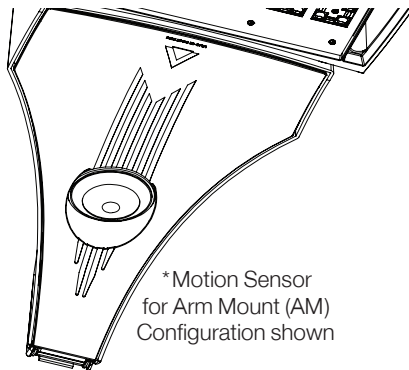
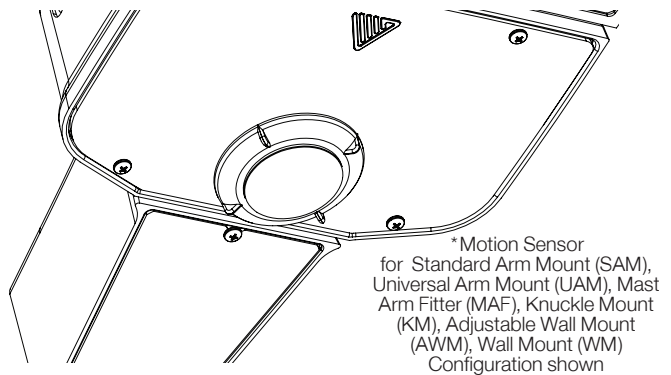
Photocell Receptacle and Shorting Cap



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 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.

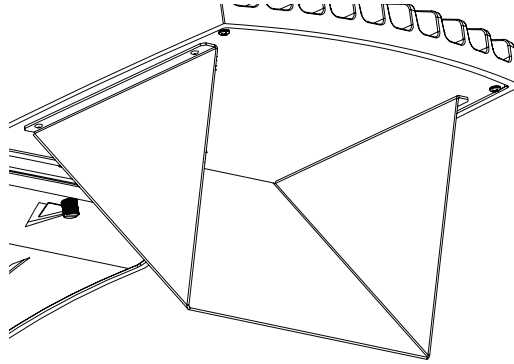
Lens Coverage Patterns:

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

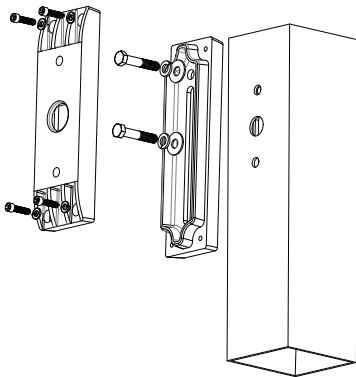
High Mode	0 Volts
Low Mode	1 Volts
Time Delay	5 Minutes
Cut Off	1 Hour
Sensitivity	Maximum
Hold Off Set Point	4ft
Candles	N/A
Ramp Up	None
Fade Down	None
Force Off Set Point With Occupied	Disable

House Shield
House Shield - Provides
solid back light cutoff



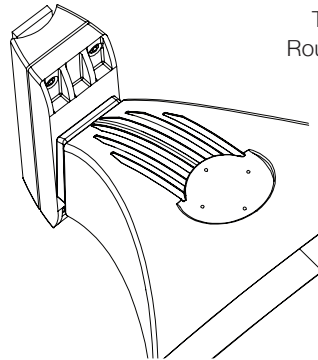
UPMA

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.



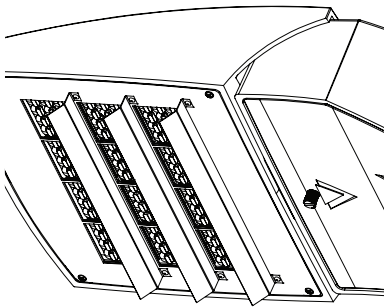
UPMA-R

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.



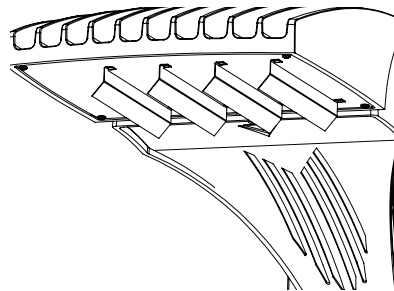
CLS

The Back Side Cutoff Louver Shield will reduce light output behind the fixture, all of the light will be focused in front of the VSX.
*Not to be used with KM



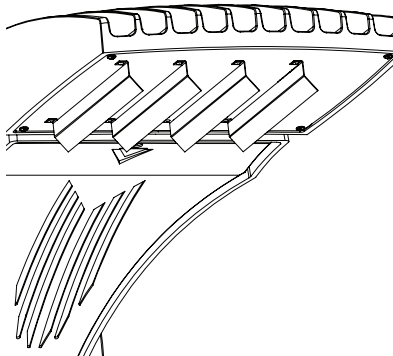
LCLS

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 VSX.
*Not to be used with KM



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 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



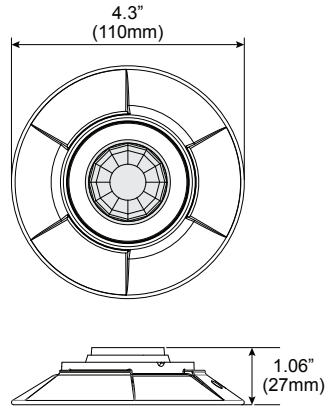
FSP-221



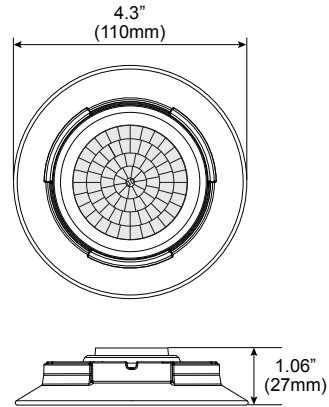
Lens with Shroud Dimensions

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

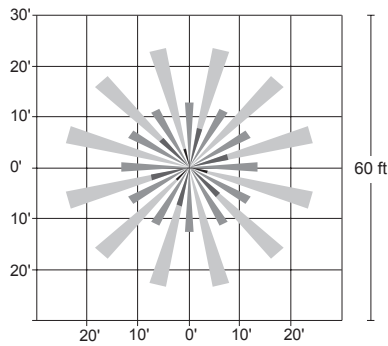
FSP-L2-S and FSP-L3-S



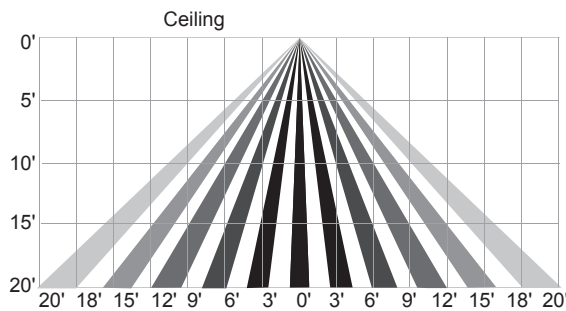
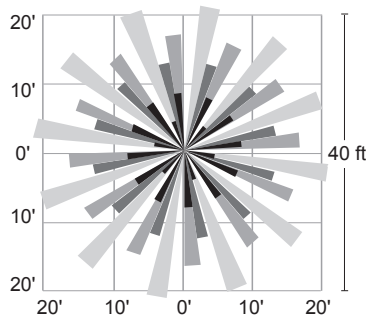
FSP-L7-S



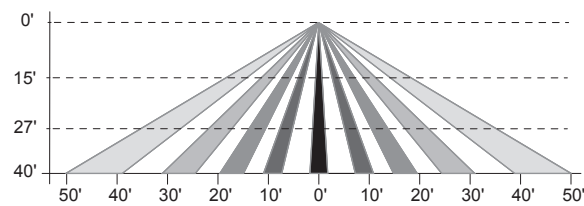
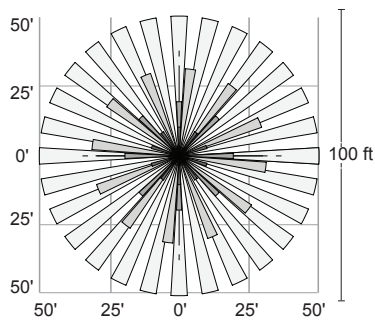
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

VSX-II LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI												70CRI												
			27K				30K				35K				40K				50K				50K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
16LD	350 mA (16.4W)	T1	2435	2	0	2	148	2541	2	0	2	155	2541	2	0	2	155	2515	2	0	2	153	2647	2	0	2	161
		T2	2348	1	0	1	143	2450	1	0	1	149	2450	1	0	1	149	2425	1	0	1	148	2552	1	0	1	155
		T3R	2424	1	0	1	147	2529	1	0	1	154	2529	1	0	1	154	2503	1	0	1	152	2634	1	0	1	160
		T3	2392	1	0	1	146	2496	1	0	1	152	2496	1	0	1	152	2470	1	0	1	150	2599	1	0	1	158
		T3W	2419	1	0	1	147	2525	1	0	1	154	2525	1	0	1	154	2498	1	0	1	152	2630	1	0	1	160
		T3LG	2430	1	0	1	148	2536	1	0	1	154	2536	1	0	1	154	2510	1	0	1	153	2642	1	0	1	161
		T4	2391	1	0	1	146	2495	1	0	1	152	2495	1	0	1	152	2469	1	0	1	150	2599	1	0	1	158
		T4A	2520	1	0	1	153	2630	1	0	1	160	2630	1	0	1	160	2602	1	0	1	158	2739	1	0	1	167
		T4LG	2424	1	0	1	148	2529	1	0	1	154	2529	1	0	1	154	2503	1	0	1	152	2635	1	0	1	160
		T4FT	2461	1	0	1	150	2440	1	0	1	148	2440	1	0	1	148	2542	1	0	1	155	2676	1	0	1	163
		T5	2422	1	0	1	147	2527	1	0	1	154	2527	1	0	1	154	2501	1	0	1	152	2633	1	0	1	160
		T5LG	2447	1	0	1	149	2554	1	0	1	155	2554	1	0	1	155	2527	1	0	1	154	2660	1	0	1	162
		T5W	2327	2	0	1	142	2428	2	0	1	148	2428	2	0	1	148	2402	2	0	1	146	2529	2	0	1	154
		T5WW	2200	2	0	1	134	2295	2	0	1	140	2295	2	0	1	140	2271	2	0	1	138	2391	2	0	1	146
		FN	2563	2	0	1	156	2675	2	0	1	163	2675	2	0	1	163	2647	2	0	1	161	2786	2	0	1	170
		FM	2544	2	0	1	155	2654	2	0	1	162	2654	2	0	1	162	2627	2	0	1	160	2765	2	0	1	168
		FW	2373	1	0	0	144	2476	1	0	0	151	2476	1	0	0	151	2450	1	0	0	149	2579	1	0	0	157
16LD	530 mA (25.3W)	T1	3690	2	0	2	146	3851	2	0	2	152	3851	2	0	2	152	3811	2	0	2	150	4011	2	0	2	158
		T2	3558	1	0	1	140	3713	1	0	2	146	3713	1	0	2	146	3674	1	0	1	145	3867	1	0	2	153
		T3R	3673	1	0	1	145	3832	1	0	1	151	3832	1	0	1	151	3792	1	0	1	150	3992	1	0	1	158
		T3	3624	1	0	1	143	3781	1	0	1	149	3781	1	0	1	149	3742	1	0	1	148	3939	1	0	1	155
		T3W	3666	1	0	1	145	3825	1	0	1	151	3825	1	0	1	151	3786	1	0	1	149	3985	1	0	1	157
		T3LG	3683	1	0	1	145	3843	1	0	1	152	3843	1	0	1	152	3803	1	0	1	150	4003	1	0	1	158
		T4	3623	1	0	1	143	3780	1	0	1	149	3780	1	0	1	149	3741	1	0	1	148	3938	1	0	1	155
		T4A	3818	1	0	1	151	3985	1	0	1	157	3985	1	0	1	157	3943	1	0	1	156	4151	1	0	1	164
		T4LG	3673	1	0	1	145	3833	1	0	1	151	3833	1	0	1	151	3793	1	0	1	150	3992	1	0	1	158
		T4FT	3730	1	0	1	147	3697	1	0	1	146	3697	1	0	1	146	3851	1	0	1	152	4054	1	0	2	160
		T5	3670	2	0	1	145	3830	2	0	1	151	3830	2	0	1	151	3790	2	0	1	150	3989	2	0	1	157
		T5LG	3708	2	0	1	146	3869	2	0	1	153	3869	2	0	1	153	3829	2	0	1	151	4030	2	0	1	159
		T5W	3525	2	0	1	139	3679	2	0	1	145	3679	2	0	1	145	3640	2	0	1	144	3832	2	0	1	151
		T5WW	3333	2	0	1	132	3478	2	0	1	137	3478	2	0	1	137	3442	2	0	1	136	3623	2	0	1	143
		FN	3984	3	0	1	153	4053	3	0	1	160	4053	3	0	1	160	4011	3	0	1	158	4222	3	0	1	167
		FM	3855	3	0	1	152	4022	3	0	1	159	4022	3	0	1	159	3980	3	0	1	157	4190	3	0	1	165
		FW	3596	2	0	1	142	3752	2	0	1	148	3752	2	0	1	148	3713	2	0	1	147	3908	2	0	1	154
16LD	700 mA (34.0W)	T1	4877	3	0	3	144	5089	3	0	3	150	5089	3	0	3	150	5036	3	0	3	148	5301	3	0	3	156
		T2	4702	1	0	2	138	4906	1	0	2	144	4906	1	0	2	144	4855	1	0	2	143	5111	1	0	2	150
		T3R	4853	1	0	2	143	5064	1	0	2	149	5064	1	0	2	149	5011	1	0	2	148	5275	1	0	2	155
		T3	4789	1	0	1	141	4997	1	0	1	147	4997	1	0	1	147	4945	1	0	1	146	5205	1	0	1	153
		T3W	4845	1	0	1	143	5055	1	0	1	149	5055	1	0	1	149	5003	1	0	1	147	5266	1	0	1	155
		T3LG	4867	1	0	1	143	5078	1	0	1	149	5078	1	0	1	149	5025	1	0	1	148	5290	1	0	1	156
		T4	4788	1	0	1	141	4996	1	0	1	147	4996	1	0	1	147	4944	1	0	1	146	5204	1	0	1	153
		T4A	5046	1	0	1	149	5265	1	0	1	155	5265	1	0	1	155	5211	1	0	1	153	5485	1	0	1	161
		T4LG	4854	1	0	1	143	5065	1	0	1	149	5065	1	0	1	149	5012	1	0	1	148	5276	1	0	1	155
		T4FT	4929	1	0	2	145	4886	1	0	2	144	4886	1	0	2	144	5090	1	0	2	150	5357	1	0	2	158
		T5	4850	2	0	1	143	5061	2	0	1	149	5061	2	0	1	149	5008	2	0	1	147	5272	2	0	1	155
		T5LG	4900	2	0	1	144	5113	2	0	1	151	5113	2	0	1	151	5060	2	0	1	149	5326	2	0	1	157
		T5W	4659	3	0	1	137	4861	3	0	1	143	4861	3	0	1	143	4811	3	0	1	142	5064	3	0	1	149
		T5WW	4405	3	0	1	130	4596	3	0	1	135	4596	3	0	1	135	4548	3	0	1	134	4788	3	0	1	141
		FN	5133	3	0	1	151	5356	3	0	1	158	5356	3	0	1	158	5300	3	0	1	156	5579	3	0	1	164
		FM	5094	3	0	1	150	5315	3	0	1	156	5315	3	0	1	156	5260	3	0	1	155	5537	3	0	1	163
		FW	4752	2	0	1	140	4958	2	0	1	146	4958	2	0	1	146	4907	2	0	1	144	5165	2	0	1	152
16LD	1050 mA (52.4W)	T1	6812	3	0	3	130	7108	3	0	3	136	7108	3	0	3	136	7034	3	0	3	134	7404	3	0	3	141
		T2	6568	2	0	2	125	6853	2	0	2	131	6853	2	0	2	131	6782	2	0	2	129	7139	2	0	2	136
		T3R	6779	2	0	2	129	7074	2	0	2	135	7074	2	0	2	135	7000	2	0	2	134	7369	2	0	2	141
		T3	6689	1	0	1	128	6980	1	0	2	133	6980	1	0	2	133	6907	1	0	1	132	7271	1	0	2	139
		T3W	6																								

VSX-II LED SPECIFICATIONS / Forward Optics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Led Count	Current & Watts	Distribution Type	27K												30K												70CRI												35K												40K												50K																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
32LD	350 mA (32.9W)	T1	4826	3	0	3	147	5035	3	0	3	153	5035	3	0	3	153	4983	3	0	3	152	5245	3	0	3	160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

VSX-II LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI																								
			27K				30K				35K				40K				50K								
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
48LD	350 mA (49.3W)	T1	6703	3	0	3	136	6994	3	0	3	142	6994	3	0	3	142	6922	3	0	3	140	7286	3	0	3	148
		T2	6463	2	0	2	131	6744	2	0	2	137	6744	2	0	2	137	6673	2	0	2	135	7024	2	0	2	142
		T3R	6671	2	0	2	135	6961	2	0	2	141	6961	2	0	2	141	6888	2	0	2	140	7251	2	0	2	147
		T3	6582	1	0	1	134	6888	1	0	1	139	6868	1	0	1	139	6797	1	0	1	138	7155	1	0	1	145
		T3W	6659	1	0	2	135	6948	1	0	2	141	6948	1	0	2	141	6876	1	0	2	139	7238	1	0	2	147
		T3LG	6689	2	0	1	136	6980	2	0	1	142	6980	2	0	1	142	6907	2	0	1	140	7271	2	0	1	147
		T4	6581	2	0	2	133	6867	2	0	2	139	6867	2	0	2	139	6795	2	0	2	138	7153	2	0	2	145
		T4A	6936	1	0	1	141	7237	2	0	1	147	7237	2	0	1	147	7162	2	0	1	145	7539	2	0	1	153
		T4LG	6671	1	0	1	135	6961	2	0	1	141	6961	2	0	1	141	6889	2	0	1	140	7252	2	0	1	147
		T4FT	6775	1	0	2	137	6716	1	0	2	136	6716	1	0	2	136	6996	1	0	2	142	7364	1	0	2	149
		T5	6667	3	0	1	135	6956	3	0	1	141	6956	3	0	1	141	6884	3	0	1	140	7246	3	0	1	147
		T5LG	6735	3	0	1	137	7028	3	0	1	143	7028	3	0	1	143	6955	3	0	1	141	7321	3	0	1	149
		T5W	6403	3	0	1	130	6682	3	0	1	136	6682	3	0	1	136	6612	3	0	1	134	6960	3	0	1	141
		T5WW	6054	3	0	1	123	6318	3	0	1	128	6318	3	0	1	128	6252	3	0	1	127	6581	3	0	1	133
		FN	7055	3	0	1	143	7362	4	0	1	149	7362	4	0	1	149	7285	4	0	1	148	7669	4	0	1	156
		FM	7001	3	0	1	142	7306	3	0	1	148	7306	3	0	1	148	7230	3	0	1	147	7610	4	0	1	154
		FW	6531	2	0	1	132	6815	2	0	1	138	6815	2	0	1	138	6744	2	0	1	137	7099	2	0	1	144
48LD	530 mA (76.0W)	T1	10157	3	0	3	134	10598	3	0	3	139	10598	3	0	3	139	10488	3	0	3	138	11040	4	0	4	145
		T2	9792	2	0	3	129	10218	2	0	3	134	10218	2	0	3	134	10112	2	0	3	133	10644	2	0	3	140
		T3R	10108	2	0	3	133	10547	2	0	3	139	10547	2	0	3	139	10437	2	0	3	137	10987	3	0	3	145
		T3	9974	2	0	2	131	10407	2	0	2	137	10407	2	0	2	137	10299	2	0	2	135	10841	2	0	2	143
		T3W	10090	2	0	2	133	10529	2	0	2	138	10529	2	0	2	138	10419	2	0	2	137	10967	2	0	2	144
		T3LG	10136	2	0	2	133	10577	2	0	2	139	10577	2	0	2	139	10466	2	0	2	138	11017	2	0	2	145
		T4	9971	2	0	2	131	10405	2	0	2	137	10405	2	0	2	137	10296	2	0	2	135	10838	2	0	2	143
		T4A	10510	2	0	1	138	10967	2	0	1	144	10967	2	0	1	144	10852	2	0	1	143	11423	2	0	2	150
		T4LG	10109	2	0	2	133	10548	2	0	2	139	10548	2	0	2	139	10439	2	0	2	137	10988	2	0	2	145
		T4FT	10265	2	0	3	135	10176	2	0	3	134	10176	2	0	3	134	10600	2	0	3	139	11158	2	0	3	147
		T5	10102	3	0	2	133	10541	3	0	2	139	10541	3	0	2	139	10431	3	0	2	137	10980	3	0	2	144
		T5LG	10206	3	0	2	134	10649	3	0	2	140	10649	3	0	2	140	10538	3	0	2	139	11093	3	0	2	146
		T5W	9703	3	0	2	128	10125	3	0	2	133	10125	3	0	2	133	10019	3	0	2	132	10547	3	0	2	139
		T5WW	9174	3	0	2	121	9573	3	0	2	126	9573	3	0	2	126	9473	3	0	2	125	9972	4	0	2	131
		FN	10691	4	0	1	141	11155	4	0	1	147	11155	4	0	1	147	11039	4	0	1	145	11620	4	0	1	153
		FM	10609	4	0	1	140	11070	4	0	1	146	11070	4	0	1	146	10955	4	0	1	144	11532	4	0	1	152
		FW	9896	3	0	1	130	10327	3	0	1	136	10327	3	0	1	136	10219	3	0	1	134	10757	3	0	1	141
48LD	700 mA (101.9W)	T1	13422	4	0	4	132	14006	4	0	4	137	14006	4	0	4	137	13860	4	0	4	136	14589	4	0	4	143
		T2	12941	3	0	3	127	13503	3	0	3	132	13503	3	0	3	132	13363	3	0	3	131	14066	3	0	3	138
		T3R	13357	3	0	3	131	13938	3	0	3	137	13938	3	0	3	137	13793	3	0	3	135	14519	3	0	3	142
		T3	13180	2	0	2	129	13753	2	0	2	135	13753	2	0	2	135	13610	2	0	2	134	14326	2	0	2	141
		T3W	13334	2	0	3	131	13914	2	0	3	137	13914	2	0	3	137	13769	2	0	3	135	14493	2	0	3	142
		T3LG	13394	3	0	2	131	13977	3	0	2	137	13977	3	0	2	137	13831	3	0	2	136	14559	3	0	2	143
		T4	13177	3	0	3	129	13750	3	0	3	135	13750	3	0	3	135	13607	3	0	3	134	14323	3	0	3	141
		T4A	13888	3	0	2	136	14492	3	0	2	142	14492	3	0	2	142	14341	3	0	2	141	15096	3	0	2	148
		T4LG	13359	2	0	2	131	13940	2	0	2	137	13940	2	0	2	137	13794	2	0	2	135	14520	2	0	2	142
		T4FT	13566	2	0	3	133	13448	2	0	3	132	13448	2	0	3	132	14008	2	0	3	137	14745	2	0	3	145
		T5	13349	3	0	2	131	13929	3	0	2	137	13929	3	0	2	137	13784	3	0	2	135	14510	4	0	2	142
		T5LG	13487	3	0	2	132	14073	3	0	2	138	14073	3	0	2	138	13926	3	0	2	137	14659	4	0	2	144
		T5W	12822	4	0	2	126	13380	4	0	2	131	13380	4	0	2	131	13240	4	0	2	130	13937	4	0	2	137
		T5WW	12123	4	0	2	119	12650	4	0	2	124	12650	4	0	2	124	12519	4	0	2	123	13178	4	0	2	129
		FN	14128	4	0	1	139	14742	5	0	1	145	14742	5	0	1	145	14588	5	0	1	143	15356	5	0	1	151
		FM	14020	4	0	1	138	14629	4	0	1	144	14629	4	0	1	144	14477	4	0	1	142	15239	5	0	1	150
		FW	13078	3	0	1	128	13647	3	0	1	134	13647	3	0	1	134	13504	3	0	1	133	14215	3	0	1	139
48LD	1050 mA (157.2W)	T1	18748	4	0	4	119	19563	4	0	4	124	19563	4	0	4	124	19360	4	0	4	123	20379	4	0	4	130
		T2	18076	3	0	3	115	18862	3	0	4	120	18862	3	0	4	120	18665	3	0	4	119	19648	3	0	4	125
		T3R	18658	3	0	3	119	19469	3	0	3	124	19469	3	0	3	124	19266	3	0	3	123	20280	3	0	3	129
		T3	18410	3	0	3	117	19211	3	0	3																