

VMS LED Specifications

Area - Site - Architectural - Outdoor - Wall



The VMS LED wall mount Series continues the unique contemporary design that is inspired by the V-Collection series. It combines LED performance and advanced LED thermal management technology and provides lighting that is energy efficient and aesthetically pleasing.

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

The LED light assemblies come with 48, 64, 80 or 96 LEDs. Seventeen optical distribution patterns are available. Select from 2700K, 3000K, 3500K, 4000K, or 5000K color temperatures and 70, 80, or 90 CRI options to achieve the perfect balance of visual comfort and design intent.

A durable polyester powdercoat finish, available in standard or custom colors, ensures lasting aesthetic appeal and corrosion resistance. The finish is backed by a five-year warranty, underscoring Visionaire Lighting's commitment to quality and craftsmanship.

The VMS LED Series is an exceptional choice for office complexes, schools, commercial buildings, and many architectural projects.

Project Name:

Catalog Number:

Type:

Date:

Location:

MODEL	OPTICS		LEDs	CURRENT	CCT
VMS	T1 Type 1	T5 Type 5	48LD	3 350mA	27K7 27K8 27K9 2700K 70, 80, & 90 CRI
	T2 Type 2	T5W Type 5 Wide	64LD	5 530mA	30K7 30K8 30K9 3000K 70, 80, & 90 CRI
	T3 Type 3	T5WW Type 5 Extra Wide	80LD	7 700mA	35K7 35K8 35K9 3500K 70, 80, & 90 CRI
	T3R Type 3 Round	T5LG Type 5 Low Glare	96LD	10 1050mA	40K7 40K8 40K9 4000K 70, 80, & 90 CRI
	T3W Type 3 Wide	FN Flood Narrow		12 1200mA	50K7 50K8 50K9 5000K 70, 80, & 90 CRI
	T3LG Type 3 Low Glare	FM Flood Medium			
	T4 Type 4	FW Flood Wide			
	T4A Type 4 Automotive				
	T4FT Type 4 Forward Throw				
	T4LG Type 4 Low Glare				

VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	SHIELD OPTIONS	OPTIONS
UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 PC-208 PC-240 PC-277 Button Type Photocell	CLS Backside cutoff shield * Not to be used with KM	EBPL Emergency Battery Pack * Universal Voltage only Rated for 20°C to 50°C * Not available in Up Light Orientation * Not available with WSP6
8 347V		BK Black	DIM 0-10v Dimming Driver		EBPL-CLD Cold Weather Emergency Battery Pack * Universal Voltage only Rated for -20°C to 50°C * Not available in Up Light Orientation * Not available with WSP6
5 480V		GY Grey	DTO Dim to Off Driver		BP Back Plate
*347V or 480V Not available with WSP6		SBK Smooth	WSP6-L2 WSP6-L3 WSP6-L7 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		BBG Bird Spikes
		WH White	WSC-8 WSC-20 WSC-40 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		BAA Buy America(n) Act Compliant
		SWH Smooth White	*The WSC option will require (1)FSIR 100 remote for programming		BABA Build America Buy American
		GP Graphite	TL7 7-PIN Twist -lock Wireless Control		
		GY Grey	Z10 or Z18 Zhaga 4 Pin Receptacle		
		SL Silver Metallic	WVC Visionaire Wireless Control		
		ZFP Zinc-Free Primer Coat			
		CC Custom Color			

Heatsink

Cast aluminum heatsink with integral cooling fins for thermal management.

Mounting/Driver Compartment

Durable two-piece cast aluminum driver compartment utilizes a quick mount/set screw mounting for ease of maintenance and sealed with a one-piece gasket.

Thermal Management

- The VMS 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 V Sconce 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 VMS series. Seventeen optical distribution patterns are available. Select from 2700K, 3000K, 3500K, 4000K, or 5000K color temperatures and 70, 80, or 90 CRI options.

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 VMS LED series is supplied with a choice of 350, 530, 700, 1050, 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.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com

Options

- Wattstopper Plus
- Wattstopper FSP-211 Motion Sensor/Control
- Button Type Photocell
- 0-10 Volt Dimming Driver
- Dim To Off Driver
- Zhaga 4 Pin Receptacle
- Up-Light Orientation
- Visionaire Wireless Control
- Cut-off Louver Shield
- Back Plate
- Emergency Battery Pack
- Bird Spikes
- BAA
- BABA

Listings

- The VMS is cUL Listed, suitable for wet locations
- IDA Certification
- Powder Coated Tough
- IP-65 Rated

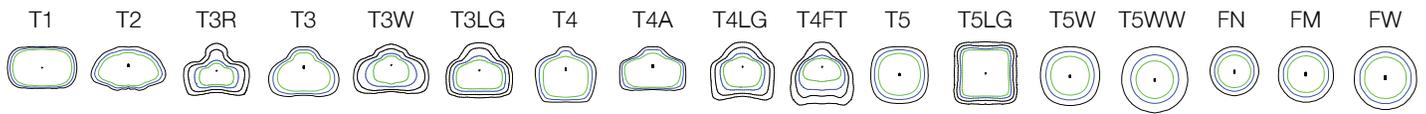
3000K or lower must be selected for IDA certification.

**Light Color**

Correlated Color Temperature (CCT)



Photometric Optical Summary



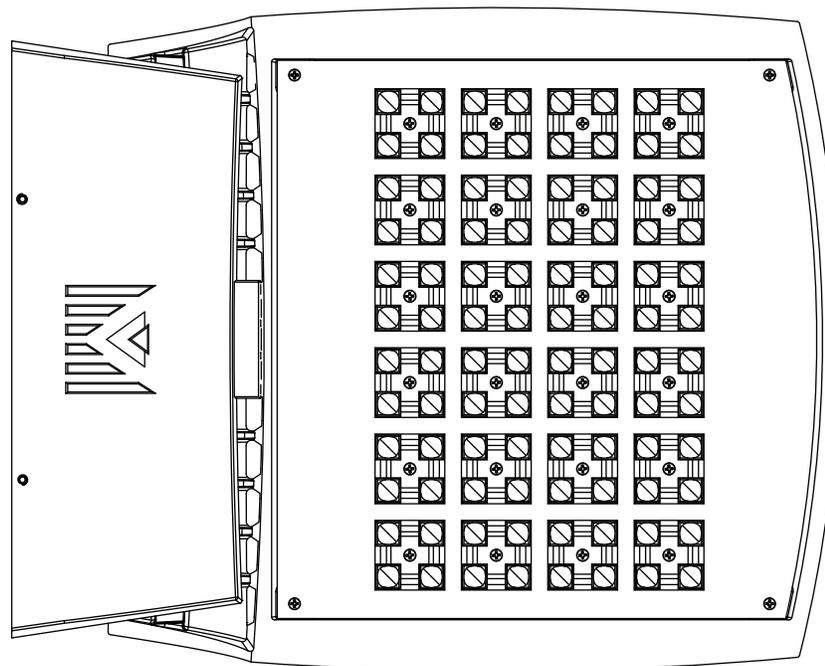
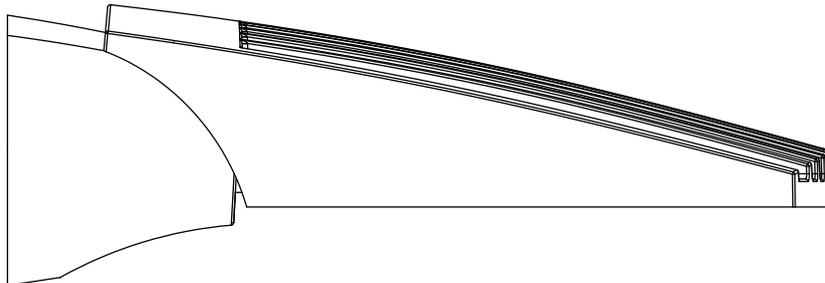
Dimensions

Width: VMS-1 14"

Depth: VMS-1 19"

Height: VMS-1 6.5"

Weight: 36 LBS



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



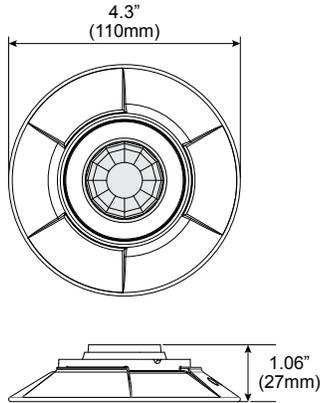
FSP-221



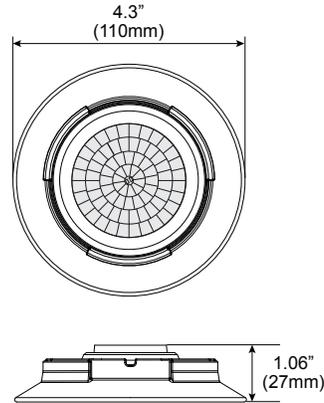
Lens with Shroud Dimensions

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

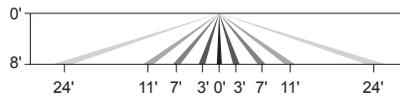
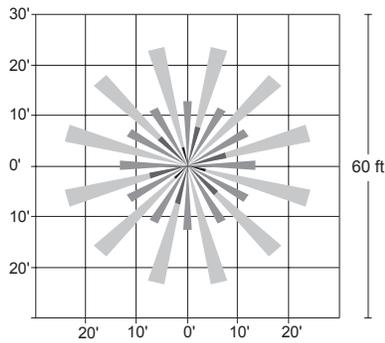
FSP-L2-S and FSP-L3-S



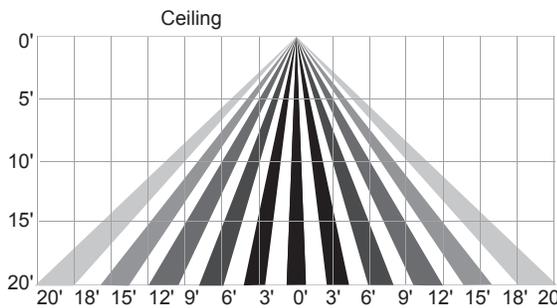
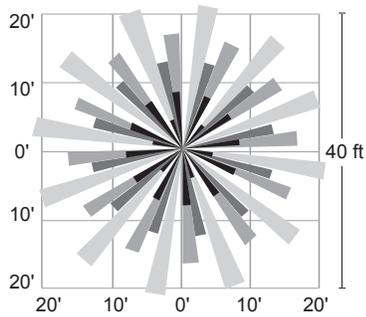
FSP-L7-S



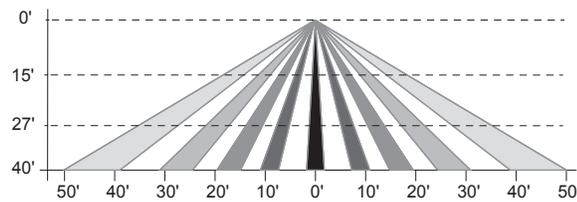
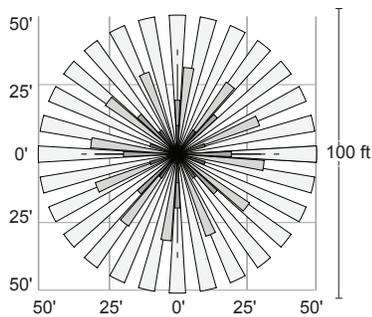
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

VMS# 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							
48LD	350 mA (49.3W)	T1	7881	3	0	3	160	8223	3	0	3	167	8223	3	0	3	167	8138	3	0	3	165	8566	3	0	3	174		
		T2	7809	2	0	2	158	8148	2	0	2	165	8148	2	0	2	165	8064	2	0	2	164	8498	2	0	2	172		
		T3R	7857	2	0	2	159	8198	2	0	2	166	8198	2	0	2	166	8113	2	0	2	165	8540	2	0	2	173		
		T3	7797	1	0	2	158	8136	1	0	2	165	8136	1	0	2	165	8051	1	0	2	163	8475	2	0	2	172		
		T3W	7871	1	0	2	160	8213	1	0	2	167	8213	1	0	2	167	8128	1	0	2	165	8556	2	0	2	174		
		T3LG	7857	2	0	2	159	8199	2	0	2	166	8199	2	0	2	166	8114	2	0	2	165	8541	2	0	2	173		
		T4	7730	2	0	2	157	8066	2	0	2	164	8066	2	0	2	164	7982	2	0	2	162	8402	2	0	2	170		
		T4A	8210	2	0	1	167	8567	2	0	1	174	8567	2	0	1	174	8478	2	0	1	172	8924	2	0	1	181		
		T4LG	7834	2	0	2	159	8175	2	0	2	166	8175	2	0	2	166	8090	2	0	2	164	8515	2	0	2	173		
		T4FT	7958	2	0	2	161	8304	2	0	2	168	8304	2	0	2	168	8217	2	0	2	167	8650	2	0	2	175		
		T5	8130	3	0	1	165	8484	3	0	1	172	8484	3	0	1	172	8396	3	0	1	170	8837	3	0	1	179		
		T5LG	7912	3	0	1	160	8255	3	0	1	167	8255	3	0	1	167	8169	3	0	1	166	8599	3	0	1	174		
		T5W	7905	3	0	2	160	8249	3	0	2	167	8249	3	0	2	167	8163	3	0	2	166	8593	3	0	2	174		
		T5WW	7522	3	0	2	153	7849	3	0	2	159	7849	3	0	2	159	7767	3	0	2	158	8176	3	0	2	166		
		FN	8120	4	0	1	165	8473	4	0	1	172	8473	4	0	1	172	8385	4	0	1	170	8826	4	0	1	179		
		FM	8190	4	0	1	166	8547	4	0	1	173	8547	4	0	1	173	8457	4	0	1	172	8903	4	0	1	181		
		FW	8305	3	0	1	168	8666	3	0	1	176	8666	3	0	1	176	8576	3	0	1	174	9027	3	0	1	183		
		48LD	530 mA (76.0W)	T1	11515	4	0	4	151	12015	4	0	4	158	12015	4	0	4	158	11890	4	0	4	156	12516	4	0	4	165
				T2	11410	3	0	3	150	11906	3	0	3	157	11906	3	0	3	157	11782	3	0	3	155	12402	3	0	3	163
				T3R	11480	3	0	3	151	11979	3	0	3	158	11979	3	0	3	158	11854	3	0	3	156	12478	3	0	3	164
T3	11393			2	0	2	150	11888	2	0	2	156	11888	2	0	2	156	11764	2	0	2	155	12383	2	0	2	163		
T3W	11501			2	0	2	151	12001	2	0	2	158	12001	2	0	2	158	11876	2	0	2	156	12501	2	0	2	164		
T3LG	11481			2	0	2	151	11980	3	0	2	158	11980	3	0	2	158	11855	3	0	2	156	12479	3	0	2	164		
T4	11295			3	0	3	149	11786	3	0	3	155	11786	3	0	3	155	11663	3	0	3	153	12277	3	0	3	161		
T4A	11997			2	0	2	158	12518	2	0	2	165	12518	2	0	2	165	12388	2	0	2	163	13040	2	0	2	172		
T4LG	11447			2	0	2	151	11945	2	0	2	157	11945	2	0	2	157	11820	2	0	2	155	12442	2	0	2	164		
T4FT	11628			2	0	3	153	12133	2	0	3	160	12133	2	0	3	160	12007	2	0	3	158	12639	2	0	3	166		
T5	11880			3	0	2	156	12396	3	0	2	163	12396	3	0	2	163	12267	3	0	2	161	12913	3	0	2	170		
T5LG	11560			3	0	2	152	12063	3	0	2	159	12063	3	0	2	159	11937	3	0	2	157	12565	3	0	2	165		
T5W	11551			4	0	2	152	12053	4	0	2	159	12053	4	0	2	159	11927	4	0	2	157	12555	4	0	2	165		
T5WW	10991			4	0	2	145	11469	4	0	2	151	11469	4	0	2	151	11349	4	0	2	149	11946	4	0	2	157		
FN	11865			4	0	1	156	12380	4	0	1	163	12380	4	0	1	163	12251	4	0	1	161	12896	4	0	1	170		
FM	11966			4	0	1	157	12488	4	0	1	164	12488	4	0	1	164	12358	4	0	1	163	13008	4	0	1	171		
FW	12135			3	0	1	160	12663	3	0	1	167	12663	3	0	1	167	12531	3	0	1	165	13190	3	0	1	173		
48LD	700 mA (101.9W)			T1	14672	4	0	4	144	15010	4	0	4	150	15010	4	0	4	150	15151	4	0	4	149	15948	4	0	4	156
				T2	14539	3	0	3	143	15171	3	0	3	149	15171	3	0	3	149	15013	3	0	3	147	15803	3	0	3	155
				T3R	14628	3	0	3	144	15264	3	0	3	150	15264	3	0	3	150	15105	3	0	3	148	15900	3	0	3	156
		T3	14517	2	0	2	142	15148	2	0	2	149	15148	2	0	2	149	14990	2	0	2	147	15779	2	0	2	155		
		T3W	14655	2	0	3	144	15292	2	0	3	150	15292	2	0	3	150	15133	2	0	3	148	15929	2	0	3	156		
		T3LG	14629	3	0	3	144	15265	3	0	3	150	15265	3	0	3	150	15106	3	0	3	148	15901	3	0	3	156		
		T4	14392	3	0	3	141	15017	3	0	3	147	15017	3	0	3	147	14861	3	0	3	146	15643	3	0	3	153		
		T4A	15286	3	0	2	150	15951	3	0	2	157	15951	3	0	2	157	15785	3	0	2	155	16615	3	0	2	163		
		T4LG	14586	3	0	2	143	15220	3	0	2	149	15220	3	0	2	149	15062	3	0	2	148	15854	3	0	2	163		
		T4FT	14816	2	0	3	145	15461	2	0	3	152	15461	2	0	3	152	15299	2	0	3	150	16105	3	0	3	158		
		T5	15138	4	0	2	149	15796	4	0	2	155	15796	4	0	2	155	15631	4	0	2	153	16454	4	0	2	161		
		T5LG	14730	4	0	2	145	15370	4	0	2	151	15370	4	0	2	151	15210	4	0	2	149	16011	4	0	2	157		
		T5W	14718	4	0	2	144	15358	4	0	2	151	15358	4	0	2	151	15198	4	0	2	149	15998	4	0	2	157		
		T5WW	14005	4	0	2	137	14614	4	0	2	143	14614	4	0	2	143	14461	4	0	2	142	15222	4	0	2	149		
		FN	15118	5	0	1	148	15775	5	0	1	155	15775	5	0	1	155	15611	5	0	1	153	16433	5	0	1	161		
		FM	15249	5	0	1	150	15912	5	0	1	156	15912	5	0	1	156	15746	5	0	1	155	16575	5	0	1	163		
		FW	15463	4	0	1	152	16135	4	0	1	158	16135	4	0	1	158	15967	4	0	1	157	16808	4	0	1	165		
		48LD	1050 mA (157.2W)	T1	20371	5	0	5	130	21257	5	0	5	135	21257	5	0	5	135	21035	5	0	5	134	22142	5	0	5	141
				T2	20186	3	0	4	128	21063	3	0	4	134	21063	3	0	4	134	20844	3	0	4	133	21941	3	0	4	140
				T3R	20309	3	0	3	129	21192	3	0	3	135	21192	3	0	3	135	20971	3	0	3	133	22075	3	0	3	140
T3	20155			3	0	3	128	21031	3	0	3	134																	

VMS-1 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							
64LD	350 mA (65.7W)	T1	10354	4	0	4	158	10604	4	0	4	164	10804	4	0	4	164	10691	4	0	4	163	11254	4	0	4	171		
		T2	10260	2	0	3	156	10706	2	0	3	163	10706	2	0	3	163	10594	2	0	3	161	11152	3	0	3	170		
		T3R	10322	2	0	3	157	10771	2	0	3	164	10771	2	0	3	164	10659	2	0	3	162	11220	3	0	3	171		
		T3	10244	2	0	2	156	10689	2	0	2	163	10689	2	0	2	163	10578	2	0	2	161	11135	2	0	2	169		
		T3W	10341	2	0	2	157	10791	2	0	2	164	10791	2	0	2	164	10678	2	0	2	162	11240	2	0	2	171		
		T3LG	10323	2	0	2	157	10772	2	0	2	164	10772	2	0	2	164	10660	2	0	2	162	11221	2	0	2	171		
		T4	10156	2	0	2	155	10597	2	0	2	161	10597	2	0	2	161	10487	2	0	2	160	11099	3	0	3	168		
		T4A	10787	2	0	1	164	11256	2	0	2	171	11256	2	0	2	171	11139	2	0	2	169	11725	2	0	2	178		
		T4LG	10293	2	0	2	157	10740	2	0	2	163	10740	2	0	2	163	10628	2	0	2	162	11188	2	0	2	170		
		T4FT	10455	2	0	3	159	10910	2	0	3	166	10910	2	0	3	166	10796	2	0	3	164	11364	2	0	3	173		
		T5	10682	3	0	2	163	11146	3	0	2	170	11146	3	0	2	170	11030	3	0	2	168	11611	3	0	2	177		
		T5LG	10394	3	0	2	158	10846	3	0	2	165	10846	3	0	2	165	10733	3	0	2	163	11298	3	0	2	172		
		T5W	10386	3	0	2	158	10838	3	0	2	165	10838	3	0	2	165	10725	3	0	2	163	11289	4	0	2	172		
		T5WW	9882	3	0	2	150	10312	4	0	2	157	10312	4	0	2	157	10205	4	0	2	155	10742	4	0	2	163		
		FN	10668	4	0	1	162	11132	4	0	1	169	11132	4	0	1	169	11016	4	0	1	168	11596	4	0	1	176		
		FM	10761	4	0	1	164	11229	4	0	1	171	11229	4	0	1	171	11112	4	0	1	169	11696	4	0	1	178		
		FW	10912	3	0	1	166	11386	3	0	1	173	11386	3	0	1	173	11267	3	0	1	171	11860	3	0	1	180		
		64LD	530 mA (101.4W)	T1	15129	4	0	4	149	15786	4	0	4	156	15786	4	0	4	156	15622	4	0	4	154	16444	4	0	4	162
				T2	14991	3	0	3	148	15643	3	0	3	154	15643	3	0	3	154	15480	3	0	3	153	16294	3	0	3	161
				T3R	15082	3	0	3	149	15738	3	0	3	155	15738	3	0	3	155	15574	3	0	3	154	16394	3	0	3	162
T3	14968			2	0	2	148	15619	2	0	2	154	15619	2	0	2	154	15456	2	0	2	152	16270	2	0	2	160		
T3W	15110			2	0	3	149	15767	2	0	3	156	15767	2	0	3	156	15603	2	0	3	154	16424	2	0	3	162		
T3LG	15084			3	0	3	149	15740	3	0	3	155	15740	3	0	3	155	15576	3	0	3	154	16396	3	0	3	162		
T4	14839			3	0	3	146	15484	3	0	3	153	15484	3	0	3	153	15323	3	0	3	151	16130	3	0	3	159		
T4A	15761			3	0	2	155	16447	3	0	2	162	16447	3	0	2	162	16275	3	0	2	161	17132	3	0	2	169		
T4LG	15039			3	0	2	148	15693	3	0	2	155	15693	3	0	2	155	15530	3	0	2	153	16347	3	0	3	161		
T4FT	15277			2	0	3	151	15941	3	0	3	157	15941	3	0	3	157	15775	3	0	3	156	16605	3	0	3	164		
T5	15608			4	0	2	154	16287	4	0	2	161	16287	4	0	2	161	16117	4	0	2	159	16965	4	0	2	167		
T5LG	15188			4	0	2	150	15848	4	0	2	156	15848	4	0	2	156	15683	4	0	2	155	16509	4	0	2	163		
T5W	15176			4	0	2	150	15836	4	0	2	156	15836	4	0	2	156	15671	4	0	2	155	16495	4	0	2	163		
T5WW	14440			4	0	2	142	15068	4	0	2	149	15068	4	0	2	149	14911	4	0	2	147	15696	4	0	2	155		
FN	15588			5	0	1	154	16266	5	0	1	160	16266	5	0	1	160	16096	5	0	1	159	16943	5	0	1	167		
FM	15723			5	0	1	155	16407	5	0	1	162	16407	5	0	1	162	16236	5	0	1	160	17091	5	0	1	169		
FW	15944			4	0	1	157	16637	4	0	1	164	16637	4	0	1	164	16463	4	0	1	162	17330	4	0	1	171		
64LD	700 mA (135.9W)			T1	19277	4	0	4	142	20115	4	0	4	148	20115	4	0	4	148	19906	4	0	4	146	20953	5	0	5	154
				T2	19102	3	0	4	141	19932	3	0	4	147	19932	3	0	4	147	19725	3	0	4	145	20763	3	0	4	153
				T3R	19218	3	0	3	141	20054	3	0	3	148	20054	3	0	3	148	19845	3	0	3	146	20889	3	0	3	154
		T3	19072	3	0	3	140	19902	3	0	3	146	19902	3	0	3	146	19694	3	0	3	145	20731	3	0	3	153		
		T3W	19254	3	0	3	142	20091	3	0	3	148	20091	3	0	3	148	19882	3	0	3	146	20928	3	0	3	154		
		T3LG	19220	3	0	3	141	20056	3	0	3	148	20056	3	0	3	148	19847	3	0	3	146	20892	3	0	3	154		
		T4	18908	3	0	3	139	19730	3	0	3	145	19730	3	0	3	145	19525	3	0	3	144	20552	3	0	3	151		
		T4A	20083	3	0	2	148	20957	3	0	2	154	20957	3	0	2	154	20738	3	0	2	153	21830	3	0	2	161		
		T4LG	19164	3	0	3	141	19997	3	0	3	147	19997	3	0	3	147	19788	3	0	3	146	20830	3	0	3	153		
		T4FT	19466	3	0	3	143	20312	3	0	3	149	20312	3	0	3	149	20101	3	0	3	148	21159	3	0	3	156		
		T5	19888	4	0	2	146	20753	4	0	2	153	20753	4	0	2	153	20537	4	0	2	151	21618	4	0	2	159		
		T5LG	19353	4	0	2	142	20194	4	0	2	149	20194	4	0	2	149	19984	4	0	2	147	21035	4	0	2	155		
		T5W	19337	4	0	2	142	20178	4	0	2	148	20178	4	0	2	148	19968	4	0	2	147	21019	4	0	2	155		
		T5WW	18400	4	0	2	135	19200	4	0	2	141	19200	4	0	2	141	19000	4	0	2	140	20000	5	0	3	147		
		FN	19862	5	0	2	146	20726	5	0	2	153	20726	5	0	2	153	20510	5	0	2	151	21590	5	0	2	159		
		FM	20035	5	0	1	147	20906	5	0	1	154	20906	5	0	1	154	20688	5	0	1	152	21777	5	0	2	160		
		FW	20316	4	0	1	150	21199	4	0	1	156	21199	4	0	1	156	20978	4	0	1	154	22082	4	0	1	163		
		64LD	1050 mA (209.6W)	T1	26764	5	0	5	128	27928	5	0	5	133	27928	5	0	5	133	27637	5	0	5	132	29091	5	0	5	139
				T2	26521	3	0	4	127	27674	4	0	5	132	27674	4	0	5	132	27385	3	0	4	131	28827	4	0	5	138
				T3R	26682	3	0	4	127	27843	4	0	4	133	27843	4	0	4	133	27552	4	0	4	131	29003	4	0	4	138
T3</																													

VMS-1 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							
80LD	350 mA (82.2W)	T1	12913	4	0	4	157	13475	4	0	4	164	13475	4	0	4	164	13334	4	0	4	162	14006	4	0	4	171		
		T2	12796	3	0	3	156	13352	3	0	3	163	13352	3	0	3	163	13213	3	0	3	161	13909	3	0	3	169		
		T3R	12874	3	0	3	157	13434	3	0	3	164	13434	3	0	3	164	13294	3	0	3	162	13994	3	0	3	170		
		T3	12776	2	0	2	156	13332	2	0	2	162	13332	2	0	2	162	13193	2	0	2	161	13887	2	0	2	169		
		T3W	12898	2	0	2	157	13459	2	0	2	164	13459	2	0	2	164	13318	2	0	2	162	14019	2	0	2	171		
		T3LG	12875	3	0	2	157	13435	3	0	2	164	13435	3	0	2	164	13295	3	0	2	162	13995	3	0	2	170		
		T4	12666	3	0	3	154	13217	3	0	3	161	13217	3	0	3	161	13079	3	0	3	159	13768	3	0	3	168		
		T4A	13454	2	0	2	164	14039	3	0	2	171	14039	3	0	2	171	13892	3	0	2	169	14623	3	0	2	178		
		T4LG	12837	2	0	2	156	13396	2	0	2	163	13396	2	0	2	163	13256	2	0	2	161	13954	2	0	2	170		
		T4FT	13040	2	0	3	159	13607	2	0	3	166	13607	2	0	3	166	13465	2	0	3	164	14174	2	0	3	173		
		T5	13323	3	0	2	162	13902	3	0	2	169	13902	3	0	2	169	13757	3	0	2	167	14481	4	0	2	176		
		T5LG	12964	3	0	2	158	13528	3	0	2	165	13528	3	0	2	165	13387	3	0	2	163	14091	4	0	2	172		
		T5W	12954	4	0	2	158	13517	4	0	2	165	13517	4	0	2	165	13376	4	0	2	163	14080	4	0	2	171		
		T5WW	12326	4	0	2	150	12862	4	0	2	157	12862	4	0	2	157	12728	4	0	2	155	13397	4	0	2	163		
		FN	13306	4	0	1	162	13884	4	0	1	169	13884	4	0	1	169	13739	4	0	1	167	14463	5	0	1	176		
		FM	13421	4	0	1	163	14005	4	0	1	170	14005	4	0	1	170	13859	4	0	1	169	14588	4	0	1	178		
		FW	13609	3	0	1	166	14201	3	0	1	173	14201	3	0	1	173	14053	3	0	1	171	14793	3	0	1	180		
		80LD	530 mA (126.7W)	T1	18869	4	0	4	149	19689	4	0	4	155	19689	4	0	4	155	19484	4	0	4	154	20509	5	0	5	162
				T2	18697	3	0	4	148	19510	3	0	4	154	19510	3	0	4	154	19307	3	0	4	152	20323	3	0	4	160
				T3R	18811	3	0	3	148	19629	3	0	3	155	19629	3	0	3	155	19425	3	0	3	153	20447	3	0	3	161
T3	18666			3	0	3	147	19480	3	0	3	154	19480	3	0	3	154	19277	3	0	3	152	20292	3	0	3	160		
T3W	18846			3	0	3	149	19665	3	0	3	155	19665	3	0	3	155	19460	3	0	3	154	20485	3	0	3	162		
T3LG	18813			3	0	3	148	19631	3	0	3	155	19631	3	0	3	155	19427	3	0	3	153	20449	3	0	3	161		
T4	18508			3	0	3	146	19312	3	0	3	152	19312	3	0	3	152	19111	3	0	3	151	20117	3	0	3	159		
T4A	19658			3	0	2	155	20513	3	0	2	162	20513	3	0	2	162	20299	3	0	2	160	21367	3	0	2	169		
T4LG	18758			3	0	3	148	19573	3	0	3	154	19573	3	0	3	154	19369	3	0	3	153	20389	3	0	3	161		
T4FT	19054			3	0	3	150	19882	3	0	4	157	19882	3	0	4	157	19675	3	0	3	155	20711	3	0	4	163		
T5	19467			4	0	2	154	20313	4	0	2	160	20313	4	0	2	160	20102	4	0	2	159	21160	4	0	2	167		
T5LG	18943			4	0	2	149	19766	4	0	2	156	19766	4	0	2	156	19560	4	0	2	154	20590	4	0	2	162		
T5W	18927			4	0	2	149	19750	4	0	2	156	19750	4	0	2	156	19545	4	0	2	154	20573	4	0	2	162		
T5WW	18010			4	0	2	142	18793	4	0	2	148	18793	4	0	2	148	18597	4	0	2	147	19576	4	0	2	154		
FN	19442			5	0	1	153	20287	5	0	2	160	20287	5	0	2	160	20076	5	0	2	158	21132	5	0	2	167		
FM	19610			5	0	1	155	20463	5	0	1	161	20463	5	0	1	161	20250	5	0	1	160	21316	5	0	2	168		
FW	19885			4	0	1	157	20750	4	0	1	164	20750	4	0	1	164	20534	4	0	1	162	21614	4	0	1	171		
80LD	700 mA (169.9W)			T1	24043	5	0	5	142	25088	5	0	5	148	25088	5	0	5	148	24827	5	0	5	146	26133	5	0	5	154
				T2	23824	3	0	4	140	24860	3	0	4	146	24860	3	0	4	146	24601	3	0	4	145	25896	3	0	4	152
				T3R	23969	3	0	4	141	25012	3	0	4	147	25012	3	0	4	147	24751	3	0	4	146	26054	3	0	4	153
		T3	23788	3	0	3	140	24822	3	0	3	146	24822	3	0	3	146	24563	3	0	3	145	25856	3	0	3	152		
		T3W	24014	3	0	3	141	25058	3	0	3	148	25058	3	0	3	148	24797	3	0	3	146	26102	3	0	4	154		
		T3LG	23972	3	0	3	141	25014	3	0	3	147	25014	3	0	3	147	24754	3	0	3	146	26066	3	0	3	153		
		T4	23583	3	0	3	139	24608	3	0	4	145	24608	3	0	4	145	24352	3	0	3	143	25633	3	0	4	151		
		T4A	25048	3	0	3	147	26137	3	0	3	154	26137	3	0	3	154	25865	3	0	3	152	27227	3	0	3	160		
		T4LG	23901	3	0	3	141	24940	3	0	3	147	24940	3	0	3	147	24691	3	0	3	145	25980	3	0	3	153		
		T4FT	24278	3	0	4	143	25334	3	0	4	149	25334	3	0	4	149	25070	3	0	4	148	26390	3	0	4	155		
		T5	24805	4	0	2	146	25884	4	0	2	152	25884	4	0	2	152	25614	4	0	2	151	26962	4	0	2	159		
		T5LG	24137	4	0	2	142	25186	4	0	2	148	25186	4	0	2	148	24924	4	0	2	147	26236	4	0	2	154		
		T5W	24118	5	0	3	142	25166	5	0	3	148	25166	5	0	3	148	24904	5	0	3	147	26215	5	0	3	154		
		T5WW	22948	5	0	3	135	23946	5	0	3	141	23946	5	0	3	141	23697	5	0	3	140	24944	5	0	3	147		
		FN	24773	5	0	2	146	25850	5	0	2	152	25850	5	0	2	152	25581	5	0	2	151	26927	5	0	2	159		
		FM	24988	5	0	2	147	26074	5	0	2	154	26074	5	0	2	154	25803	5	0	2	152	27161	5	0	2	160		
		FW	25338	4	0	1	149	26440	5	0	1	156	26440	5	0	1	156	26164	5	0	1	154	27541	5	0	1	162		
		80LD	1050 mA (262.0W)	T1	33381	5	0	5	127	34832	5	0	5	133	34832	5	0	5	133	34469	5	0	5	132	36283	5	0	5	138
				T2	33077	4	0	5	126	34515	4	0	5	132	34515	4	0	5	132	34156	4	0	5	130	35953	4	0	5	137
				T3R	33279	4	0	5	127	34726	4	0	5	133	34726	4	0	5	133	34364	4	0	5	131	36173	4	0	5	138
T3																													

VMS-1 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							
96LD	350 mA (98.6W)	T1	15453	4	0	4	157	16125	4	0	4	164	16125	4	0	4	164	15957	4	0	4	162	16797	4	0	4	170		
		T2	15312	3	0	3	155	15978	3	0	3	162	15978	3	0	3	162	15812	3	0	3	160	16644	3	0	3	169		
		T3R	15406	3	0	3	156	16076	3	0	3	163	16076	3	0	3	163	15908	3	0	3	161	16745	3	0	3	170		
		T3	15289	2	0	2	155	15954	2	0	2	162	15954	2	0	2	162	15787	2	0	2	160	16618	2	0	2	169		
		T3W	15434	2	0	3	157	16105	2	0	3	163	16105	2	0	3	163	15937	2	0	3	162	16776	3	0	3	170		
		T3LG	15407	3	0	3	156	16077	3	0	3	163	16077	3	0	3	163	15910	3	0	3	161	16747	3	0	3	170		
		T4	15157	3	0	3	154	15816	3	0	3	160	15816	3	0	3	160	15652	3	0	3	159	16475	3	0	3	167		
		T4A	16099	3	0	2	163	16799	3	0	2	170	16799	3	0	2	170	16624	3	0	2	169	17499	3	0	2	177		
		T4LG	15362	3	0	2	156	16030	3	0	2	163	16030	3	0	2	163	15863	3	0	2	161	16698	3	0	3	169		
		T4FT	15604	2	0	3	158	16283	3	0	3	165	16283	3	0	3	165	16113	3	0	3	163	16961	3	0	3	172		
		T5	15943	4	0	2	162	16636	4	0	2	169	16636	4	0	2	169	16463	4	0	2	167	17329	4	0	2	176		
		T5LG	15513	4	0	2	157	16188	4	0	2	164	16188	4	0	2	164	16019	4	0	2	162	16862	4	0	2	171		
		T5W	15501	4	0	2	157	16175	4	0	2	164	16175	4	0	2	164	16007	4	0	2	162	16849	4	0	2	171		
		T5WW	14750	4	0	2	150	15391	4	0	2	156	15391	4	0	2	156	15231	4	0	2	154	16032	4	0	2	163		
		FN	15922	5	0	1	161	16614	5	0	1	169	16614	5	0	1	169	16441	5	0	1	167	17307	5	0	1	176		
		FM	16060	5	0	1	163	16759	5	0	1	170	16759	5	0	1	170	16584	5	0	1	168	17457	5	0	1	177		
		FW	16265	4	0	1	165	16993	4	0	1	172	16993	4	0	1	172	16816	4	0	1	171	17702	4	0	1	180		
		96LD	530 mA (152.1W)	T1	22680	5	0	4	148	23661	5	0	4	155	23661	5	0	4	155	23316	5	0	4	153	24543	5	0	4	161
				T2	22374	3	0	4	147	23347	3	0	4	154	23347	3	0	4	154	23104	3	0	4	152	24320	3	0	4	160
				T3R	22511	3	0	4	148	23490	3	0	4	154	23490	3	0	4	154	23245	3	0	4	153	24468	3	0	4	161
T3	22340			3	0	3	147	23311	3	0	3	153	23311	3	0	3	153	23069	3	0	3	152	24283	3	0	3	160		
T3W	22552			3	0	3	148	23533	3	0	3	155	23533	3	0	3	155	23288	3	0	3	153	24513	3	0	3	161		
T3LG	22513			3	0	3	148	23492	3	0	3	154	23492	3	0	3	154	23247	3	0	3	153	24471	3	0	3	161		
T4	22148			3	0	3	146	23111	3	0	3	152	23111	3	0	3	152	22870	3	0	3	150	24074	3	0	3	158		
T4A	23524			3	0	3	155	24547	3	0	3	161	24547	3	0	3	161	24291	3	0	3	160	25570	3	0	3	168		
T4LG	22447			3	0	3	148	23423	3	0	3	154	23423	3	0	3	154	23179	3	0	3	152	24399	3	0	3	160		
T4FT	22801			3	0	4	150	23792	3	0	4	156	23792	3	0	4	156	23545	3	0	4	155	24784	3	0	4	163		
T5	23296			4	0	2	153	24308	4	0	2	160	24308	4	0	2	160	24055	4	0	2	158	25321	4	0	2	167		
T5LG	22668			4	0	2	149	23654	4	0	2	156	23654	4	0	2	156	23407	4	0	2	154	24639	4	0	2	162		
T5W	22650			5	0	3	149	23635	5	0	3	155	23635	5	0	3	155	23389	5	0	3	154	24620	5	0	3	162		
T5WW	21552			5	0	3	142	22489	5	0	3	148	22489	5	0	3	148	22255	5	0	3	146	23426	5	0	3	154		
FN	23265			5	0	2	153	24277	5	0	2	160	24277	5	0	2	160	24024	5	0	2	158	25288	5	0	2	166		
FM	23467			5	0	2	154	24488	5	0	2	161	24488	5	0	2	161	24233	5	0	2	159	25508	5	0	2	168		
FW	23796			4	0	1	156	24831	4	0	1	163	24831	4	0	1	163	24572	4	0	1	162	25865	4	0	1	170		
96LD	700 mA (203.8W)			T1	28772	5	0	5	141	30023	5	0	5	147	30023	5	0	5	147	29711	5	0	5	146	31274	5	0	5	153
				T2	28511	4	0	5	140	29750	4	0	5	146	29750	4	0	5	146	29440	4	0	5	144	30990	4	0	5	152
				T3R	28685	4	0	4	141	29932	4	0	4	147	29932	4	0	4	147	29690	4	0	4	145	31179	4	0	4	153
		T3	28467	3	0	3	140	29705	3	0	3	146	29705	3	0	3	146	29463	3	0	3	144	30942	3	0	3	152		
		T3W	28738	3	0	4	141	29987	3	0	4	147	29987	3	0	4	147	29675	3	0	4	146	31236	3	0	4	153		
		T3LG	28688	3	0	3	141	29935	3	0	3	147	29935	3	0	3	147	29623	3	0	3	145	31182	3	0	3	153		
		T4	28222	4	0	4	138	29449	4	0	4	144	29449	4	0	4	144	29142	4	0	4	143	30676	4	0	4	150		
		T4A	29976	3	0	3	147	31279	3	0	3	153	31279	3	0	3	153	30953	3	0	3	152	32583	3	0	3	160		
		T4LG	28603	3	0	3	140	29847	3	0	3	146	29847	3	0	3	146	29596	3	0	3	145	31090	3	0	3	153		
		T4FT	29055	3	0	4	143	30318	3	0	4	149	30318	3	0	4	149	30002	3	0	4	147	31581	3	0	4	155		
		T5	29685	5	0	3	146	30975	5	0	3	152	30975	5	0	3	152	30653	5	0	3	150	32266	5	0	3	158		
		T5LG	28885	5	0	3	142	30141	5	0	3	148	30141	5	0	3	148	29827	5	0	3	146	31397	5	0	3	154		
		T5W	28662	5	0	3	142	30117	5	0	3	148	30117	5	0	3	148	29803	5	0	3	146	31372	5	0	3	154		
		T5WW	27463	5	0	3	135	28657	5	0	3	141	28657	5	0	3	141	28358	5	0	3	139	29851	5	0	3	146		
		FN	29646	5	0	2	145	30935	5	0	2	152	30935	5	0	2	152	30613	5	0	2	150	32224	5	0	2	158		
		FM	29903	5	0	2	147	31204	5	0	2	153	31204	5	0	2	153	30879	5	0	2	151	32504	5	0	2	159		
		FW	30323	5	0	1	149	31641	5	0	1	155	31641	5	0	1	155	31311	5	0	1	154	32959	5	0	1	162		
		96LD	1050 mA (314.4W)	T1	39945	5	0	5	127	41681	5	0	5	133	41681	5	0	5	133	41247	5	0	5	131	43418	5	0	5	138
				T2	39681	4	0	5	126	41302	4	0	5	131	41302	4	0	5	131	40872	4	0	5	130	43023	4	0	5	137
				T3R	39823	4	0	5	127	41554	4	0	5	132	41554	4	0	5	132	41122	4	0	5	131	43286	4	0	5	138
T3																													