



LED Wattage Chart

Drive Current	48L	64L
700 milliamps	104W	136W
1050 milliamps	156W	205W

FORM AND FUNCTION

- Sleek, low profile housing
- Economy performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Optical system designed for Parking Structures

CONSTRUCTION

- Spun Aluminum
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade American Act), or BABA (Build America, Buy America).



Project Name:

Type:

VSR-1- PM ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI	Voltage
Value Series Round 1 (VSR-1)	Standard Silicone Micro Optics	Standard Configurations		Amber LED 595nm Dominant Wavelength Standard Turtle Friendly (AMBER) ^{1, 6, 7, 13}	120V-277V (UNV) 347V-480V (HV)
	Type 2 (T2)	48 LED (48L)	700 mA (7)		
	Type 3 (T3)	64 LED (64L)	1050 mA (1)		
	Type 4 (T4)				
	Type 5 (T5)				
	Performance Silicone Micro Optics	Standard Configurations		Amber LED Phosphor Converted (AMBER/PC) ^{1, 6, 7, 13}	
	Type 4 Forward Throw Wide (For Perimeters) (T4FTW)	48 LED (48L)	700 mA (7)	2700K, 70 CRI (27K7) ²	
	Type 5 Wide (for Improved Uniformity & Wider Pole Spacing) (T5W)	64 LED (64L)	1050 mA (1)	2700K, 80 CRI (27K8) ²	
		Performance Plus Configurations*		3000K, 70 CRI (30K7) ²	
		64 LED (64L)	350 mA (35) ⁸	3000K, 80 CRI (30K8) ²	
			530 mA (53) ⁸	3500K, 80 CRI (35K8) ²	
				4000K, 70 CRI (40K7) ²	
				4000K, 80 CRI (40K8) ²	
				5000K, 70 CRI (50K7) ²	
				5000K, 80 CRI (50K8) ²	

* Performance Plus configurations with our New Performance Silicone Optics.
(For the ultimate performance of the New Performance Silicone Optics combine highest chip count with High Efficacy Drive Currents)

Mounting	Color	Controls Options	Options
Pendant Mount 12" Length (PM12)	Bronze Textured (BRZ)	FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)	Marine Grade Finish (MGF)
Pendant Mount 24" Length (PM24)	White Textured (WHT)	8' Heights (FSP211-8) ^{4, 10}	House Side Shield (HSS)
Pendant Mount 36" Length (PM36)	Smooth White Gloss (SWT)	9'-20' Heights (FSP211-20) ^{4, 10}	Single Fuse (SF)
Pendant Mount Custom Length (PMX) ¹⁴	Silver Metallic (SVR)	21'-40' Heights (FSP211-40) ^{4, 10}	Double Fuse (DF)
	Black Textured (BLK)	FSP-221 w/Motion Sensor/Photocell (100/347VAC, 208/230/480VAC)	Black Optical Frame (BOF) ¹
	Smooth Black Gloss (SBK)	8' Heights (FSP-HV-8) ¹¹	Buy American Act (BAA) ³
	Graphite Textured (GPH)	9'-20' Heights (FSP-HV-20) ¹¹	Trade Agreement Act (TAA) ³
	Grey Textured (GRY)	21'-40' Heights (FSP-HV-40) ¹¹	Build America Buy American (BABA) ³
	Green Textured (GRN)	Custom Controls Integration (CCI) ⁹	
	Hunter Green Textured (HGN)	Button Type Photocell (PC) ⁴	
	Custom (CS)	FSP Remote (FSIR) ¹²	
		DALI-2 (D2) ⁹	

NOTES:

1. Consult Factory for Lead Time
2. Consult Factory for 90 CRI Requests
3. Consult factory for all BAA/TAA/BABA requests
4. Universal Voltage 120V-277V
5. 3000K or lower, w/fixed mounting options only. Must be selected to meet International Dark-Sky Association certification
6. Turtle Safe
7. Not available above 530mA
8. 48L & 64L Only with T4FTW & T5W Performance Silicone Micro Optics
9. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinX, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
10. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
11. FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
12. Projects with sensors require Qty. 1 FSIR per project.
13. See estimated scaling chart for multiplier values to estimate lumen output Please contact Factory to verify the estimated performance data
14. Consult Factory for custom pendant lengths



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PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- Led Drivers Ambient Temp. Min (degC) is -40c and Ambient Temp. Max (degC) ranges from 50c to 55c and in some cases, even higher. Consult factory for revalidation by providing fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- CRI 70, 80 or 90
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplies as standard.

OPTIONS

- MARINE GRADE FINISH (MGF) A multi-step process creating protective finishing coat against harsh environments.
 - Chemically washed in a 5 stage cleaning system.
 - Pre-baked
 - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- HOUSE SIDE SHIELD—House Side Shield (HSS) is designed for full property line cut-off.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. (includes black hardware) Standard is white

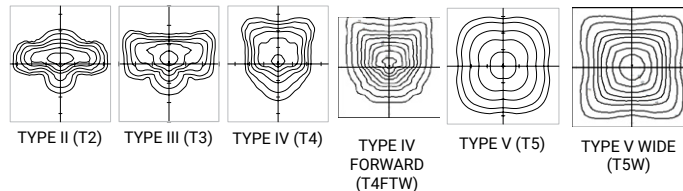
CONTROLS

- **FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)**
(FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- **FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC)**
(FSP-HV-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below.
 - FSP-20 mounting heights 9' feet to 20'.
 - FSP-40 mounting heights 21-40 feet.
 - Can maintain constant foot candles over time. Consult Factory
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, DALI II, Avi-On, or other control systems)

OPTICS

Silicone optics high photo-thermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types



FINISH

- 5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against extreme environmental conditions.

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements
- CSA C22.2 No. 250.0
- IP65 / IP67 Rated

BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

<https://nslighting.com/buy-american/>



3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.

The information and specifications on this document are subject to change without any notification. All values are design, nominal, or typical or prorated values when measured under internal and external laboratory conditions.



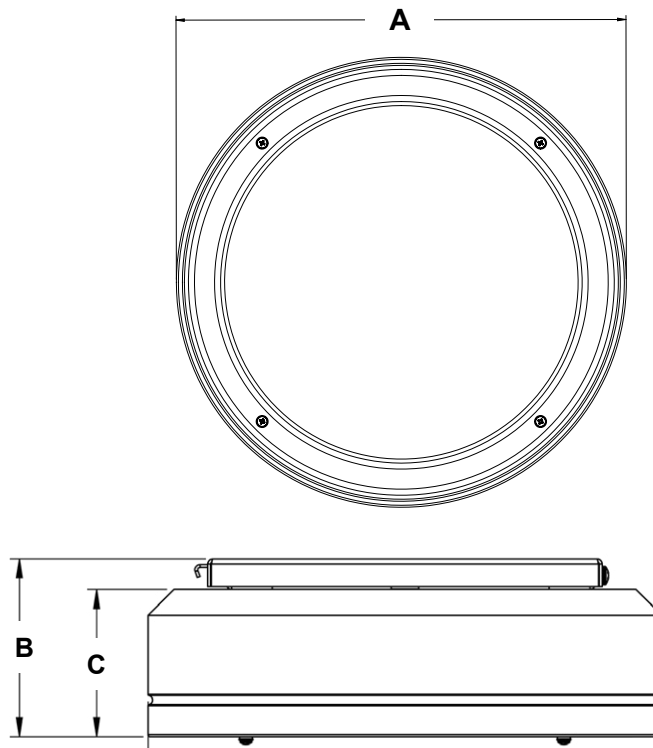
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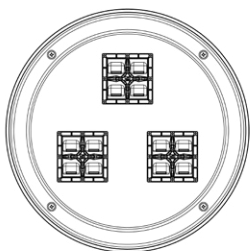
PRODUCT SPECIFICATIONS

DIMENSION	VSR-1
A	17 in.
B	6.83 in.
C	6 in.
Weight	15 lbs

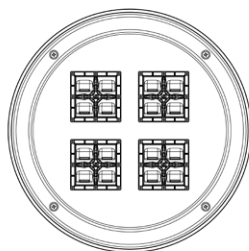
			
EPA	SGL 12"	SGL 24"	SGL 36"
VSR-1-PM	.35	.38	.41



OPTICAL CONFIGURATIONS



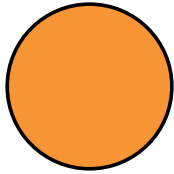
VSR-1 / 48L



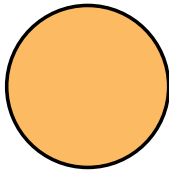
VSR-1 / 64L

PRODUCT SPECIFICATIONS

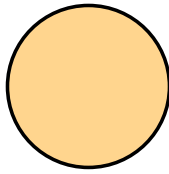
LED KELVIN RANGE



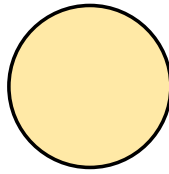
AMBER
585-600 nm



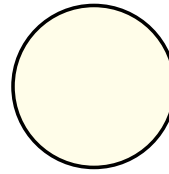
2700K 70 CRI



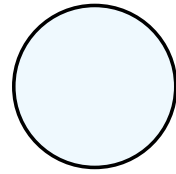
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

EMERGENCY OPERATION LUMENS									
PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T4 LUMENS	T4 LM/W	T5 LUMENS	T5 LM/W	WATTS
VSR-X-16L-35-30K7	2231	119	2188	116	2154	115	2255	120	18
VSR-X-16L-35-40K7	2305	128	2247	125	2227	124	2324	129	18
VSR-X-16L-35-50K7	2356	131	2297	128	2277	127	2376	132	18

Lumen Maintenance Data							
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours*
25°C	up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

LUMEN MULTIPLIERS

Multipliers For 70/80/90 CRI (Scaling Factor from 5000K 70 CRI)			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.840	0.737	0.609
3000K	0.975	0.776	0.640
3500K	0.890	0.800	0.659
4000K	1.000	0.815	0.679
5000K	1.000	0.830	0.710

Multipliers For Amber & PC Amber (Scaling Factor from 5000K 70 CRI)	
CCT	Multiplier
AMBER - Amber LED 595nm Dominant Wavelength - Standard Turtle Friendly	Consult Factory for estimated lumens and wattage
AMBER/PC - Amber LED Phosphor Converted	Consult Factory for estimated lumens and wattage

LENS MULTIPLIERS

Lens Type	Multiplier
CFL - Clear Tempered Glass Lens	0.8500
DPCL - Diffused Polycarbonate Visual Comfort Lens	0.6000
HAL - Yellow Polycarbonate Lens - less than 2% Blue Light Content	0.7000

PRODUCT SPECIFICATIONS

LUMEN CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
VSR-1-48L-7-27K7	10955	105	10678	103	10697	103	11163	107	104
VSR-1-48L-7-27K8	10259	99	9999	96	10017	96	10453	101	104
VSR-1-48L-7-30K7	11844	114	11544	111	11565	111	12068	116	104
VSR-1-48L-7-30K8	10999	106	10721	103	10740	103	11207	108	104
VSR-1-48L-7-35K8	10999	106	10721	103	10740	103	11207	108	104
VSR-1-48L-7-40K7	13028	125	12698	122	12722	122	13275	128	104
VSR-1-48L-7-40K8	12059	116	11753	113	11776	113	12288	118	104
VSR-1-48L-7-50K7	13028	125	12698	122	12722	122	13275	128	104
VSR-1-48L-7-50K8	12059	116	11753	113	11776	113	12288	118	104
VSR-1-48L-1-27K7	15094	97	14718	94	14586	93	15220	98	156
VSR-1-48L-1-27K8	14134	91	13783	88	13659	88	14253	91	156
VSR-1-48L-1-30K7	16318	105	15912	102	15769	101	16455	105	156
VSR-1-48L-1-30K8	15154	97	14777	95	14644	94	15281	98	156
VSR-1-48L-1-35K8	15154	97	14777	95	14644	94	15281	98	156
VSR-1-48L-1-40K7	17950	115	17503	112	17346	111	18100	116	156
VSR-1-48L-1-40K8	16615	107	16201	104	16056	103	16754	107	156
VSR-1-48L-1-50K7	17950	115	17503	112	17346	111	18100	116	156
VSR-1-48L-1-50K8	16615	107	16201	104	16056	103	16754	107	156

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
VSR-1-64L-7-27K7	14326	105	13963	103	13989	103	14597	107	136
VSR-1-64L-7-27K8	13416	99	13076	96	13100	96	13669	101	136
VSR-1-64L-7-30K7	15488	114	15096	111	15124	111	15781	116	136
VSR-1-64L-7-30K8	14383	106	14019	103	14045	103	14655	108	136
VSR-1-64L-7-35K8	14383	106	14019	103	14045	103	14655	108	136
VSR-1-64L-7-40K7	17037	125	16606	122	16636	122	17359	128	136
VSR-1-64L-7-40K8	15770	116	15371	113	15399	113	16068	118	136
VSR-1-64L-7-50K7	17037	125	16606	122	16636	122	17359	128	136
VSR-1-64L-7-50K8	15770	116	15371	113	15399	113	16068	118	136
VSR-1-64L-1-27K7	19834	97	19341	94	19167	93	20001	98	205
VSR-1-64L-1-27K8	18574	91	18112	88	17949	88	18730	91	205
VSR-1-64L-1-30K7	21443	105	20910	102	20722	101	21623	105	205
VSR-1-64L-1-30K8	19914	97	19419	95	19244	94	20081	98	205
VSR-1-64L-1-35K8	19914	97	19419	95	19244	94	20081	98	205
VSR-1-64L-1-40K7	23588	115	23001	112	22795	111	23785	116	205
VSR-1-64L-1-40K8	21833	107	21290	104	21099	103	22016	107	205
VSR-1-64L-1-50K7	23588	115	23001	112	22795	111	23785	116	205
VSR-1-64L-1-50K8	21833	107	21290	104	21099	103	22016	107	205

PRODUCT SPECIFICATIONS

LUMEN CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 32 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
VSR-1-32L-7-27K7	6381	90	7354	104	71
VSR-1-32L-7-27K8	5975	84	6887	97	71
VSR-1-32L-7-30K7	6900	97	7951	112	71
VSR-1-32L-7-30K8	6408	90	7384	104	71
VSR-1-32L-7-35K8	6408	90	7384	104	71
VSR-1-32L-7-40K7	7455	105	8591	121	71
VSR-1-32L-7-40K8	6900	97	7952	112	71
VSR-1-32L-7-50K7	7455	105	8591	121	71
VSR-1-32L-7-50K8	6900	97	7952	112	71
VSR-1-32L-1-27K7	9125	88	9569	92	104
VSR-1-32L-1-27K8	8545	82	8961	86	104
VSR-1-32L-1-30K7	9866	95	10346	99	104
VSR-1-32L-1-30K8	9162	88	9608	92	104
VSR-1-32L-1-35K8	9162	88	9608	92	104
VSR-1-32L-1-40K7	10660	103	11179	107	104
VSR-1-32L-1-40K8	9867	95	10347	99	104
VSR-1-32L-1-50K7	10660	103	11179	107	104
VSR-1-32L-1-50K8	9867	95	10347	99	104

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
VSR-1-48L-7-27K7	9525	92	10950	105	104
VSR-1-48L-7-27K8	8920	86	10254	99	104
VSR-1-48L-7-30K7	10299	99	11839	114	104
VSR-1-48L-7-30K8	9564	92	10995	106	104
VSR-1-48L-7-35K8	9564	92	10995	106	104
VSR-1-48L-7-40K7	11128	107	12792	123	104
VSR-1-48L-7-40K8	10300	99	11840	114	104
VSR-1-48L-7-50K7	11128	107	12792	123	104
VSR-1-48L-7-50K8	10300	99	11840	114	104
VSR-1-48L-1-27K7	14021	90	14603	94	156
VSR-1-48L-1-27K8	13130	84	13675	88	156
VSR-1-48L-1-30K7	15160	97	15789	101	156
VSR-1-48L-1-30K8	14079	90	14663	94	156
VSR-1-48L-1-35K8	14079	90	14663	94	156
VSR-1-48L-1-40K7	16380	105	17060	109	156
VSR-1-48L-1-40K8	15162	97	15791	101	156
VSR-1-48L-1-50K7	16380	105	17060	109	156
VSR-1-48L-1-50K8	15162	97	15791	101	156

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
VSR-1-64L-35-27K7	7834	115	8292	122	68
VSR-1-64L-35-27K8	7336	108	7765	114	68
VSR-1-64L-35-30K7	8470	125	8964	132	68
VSR-1-64L-35-30K8	7866	116	8325	122	68
VSR-1-64L-35-35K8	7866	116	8325	122	68
VSR-1-64L-35-40K7	9316	137	9860	145	68
VSR-1-64L-35-40K8	8623	127	9127	134	68
VSR-1-64L-35-50K7	9316	137	9860	145	68
VSR-1-64L-35-50K8	8623	127	9127	134	68
VSR-1-64L-53-27K7	10977	107	12502	121	103
VSR-1-64L-53-27K8	10279	100	11564	112	103
VSR-1-64L-53-30K7	11867	115	13517	131	103
VSR-1-64L-53-30K8	11021	107	12553	122	103
VSR-1-64L-53-35K8	11021	107	12553	122	103
VSR-1-64L-53-40K7	13053	127	14867	144	103
VSR-1-64L-53-40K8	12082	117	13761	134	103
VSR-1-64L-53-50K7	13053	127	14867	144	103
VSR-1-64L-53-50K8	12082	117	13761	134	103
VSR-1-64L-7-27K7	12017	86	14516	104	139
VSR-1-64L-7-27K8	11253	81	13593	98	139
VSR-1-64L-7-30K7	12993	93	15695	113	139
VSR-1-64L-7-30K8	12066	87	14576	105	139
VSR-1-64L-7-35K8	12066	87	14576	105	139
VSR-1-64L-7-40K7	14039	101	16958	122	139
VSR-1-64L-7-40K8	12995	93	15697	113	139
VSR-1-64L-7-50K7	14039	101	16958	122	139
VSR-1-64L-7-50K8	12995	93	15697	113	139
VSR-1-64L-1-27K7	16987	82	19138	92	207
VSR-1-64L-1-27K8	15907	77	17922	87	207
VSR-1-64L-1-30K7	18367	89	20692	100	207
VSR-1-64L-1-30K8	17057	82	19216	93	207
VSR-1-64L-1-35K8	17057	82	19216	93	207
VSR-1-64L-1-40K7	19845	96	22358	108	207
VSR-1-64L-1-40K8	18369	89	20695	100	207
VSR-1-64L-1-50K7	19845	96	22358	108	207
VSR-1-64L-1-50K8	18369	89	20695	100	207



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PRODUCT SPECIFICATIONS

BUG RATING CHARTS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED				
Part Number	T2	T3	T4	T5
VSR-1-48L-7-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-7-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
VSR-1-48L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
VSR-1-48L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2

PERFORMANC SILICONE MICRO OPTICS - NON-SHIELDED - 48 LED		
Part Number	T4FTW	T5W
VSR-1-48L-7-27K7	B2-U0-G3	B4-U0-G2
VSR-1-48L-7-27K8	B2-U0-G3	B4-U0-G2
VSR-1-48L-7-30K7	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-30K8	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-35K8	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-40K7	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-40K8	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-50K7	B2-U0-G3	B4-U0-G3
VSR-1-48L-7-50K8	B2-U0-G3	B4-U0-G3
VSR-1-48L-1-27K7	B3-U0-G3	B4-U0-G3
VSR-1-48L-1-27K8	B3-U0-G3	B4-U0-G3
VSR-1-48L-1-30K7	B3-U0-G4	B4-U0-G3
VSR-1-48L-1-30K8	B3-U0-G4	B4-U0-G3
VSR-1-48L-1-35K8	B3-U0-G4	B4-U0-G3
VSR-1-48L-1-40K7	B3-U0-G4	B5-U0-G3
VSR-1-48L-1-40K8	B3-U0-G4	B5-U0-G3
VSR-1-48L-1-50K7	B3-U0-G4	B5-U0-G3
VSR-1-48L-1-50K8	B3-U0-G4	B5-U0-G3

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED				
Part Number	T2	T3	T4	T5
VSR-1-64L-7-27K7	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-27K8	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-30K7	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-30K8	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-35K8	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-40K7	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-40K8	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-50K7	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-7-50K8	B3-U0-G3	B2-U0-G2	B3-U0-G3	B4-U0-G2
VSR-1-64L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3

PERFORMANC SILICONE MICRO OPTICS - NON-SHIELDED - 64 LED		
Part Number	T4FTW	T5W
VSR-1-64L-35-27K7	B2-U0-G2	B3-U0-G2
VSR-1-64L-35-27K8	B1-U0-G2	B3-U0-G2
VSR-1-64L-35-30K7	B2-U0-G3	B4-U0-G2
VSR-1-64L-35-30K8	B2-U0-G2	B3-U0-G2
VSR-1-64L-35-35K8	B2-U0-G2	B3-U0-G2
VSR-1-64L-35-40K7	B2-U0-G3	B4-U0-G2
VSR-1-64L-35-40K8	B2-U0-G3	B4-U0-G2
VSR-1-64L-35-50K7	B2-U0-G3	B4-U0-G2
VSR-1-64L-35-50K8	B2-U0-G3	B4-U0-G2
VSR-1-64L-53-27K7	B2-U0-G3	B4-U0-G2
VSR-1-64L-53-27K8	B2-U0-G3	B4-U0-G2
VSR-1-64L-53-30K7	B2-U0-G3	B4-U0-G3
VSR-1-64L-53-30K8	B2-U0-G3	B4-U0-G2
VSR-1-64L-53-35K8	B2-U0-G3	B4-U0-G2
VSR-1-64L-53-40K7	B2-U0-G3	B4-U0-G3
VSR-1-64L-53-40K8	B2-U0-G3	B4-U0-G3
VSR-1-64L-53-50K7	B2-U0-G3	B4-U0-G3
VSR-1-64L-53-50K8	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-27K7	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-27K8	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-30K7	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-30K8	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-35K8	B2-U0-G3	B4-U0-G3
VSR-1-64L-7-40K7	B3-U0-G3	B4-U0-G3
VSR-1-64L-7-40K8	B3-U0-G3	B4-U0-G3
VSR-1-64L-7-50K7	B3-U0-G3	B4-U0-G3
VSR-1-64L-7-50K8	B3-U0-G3	B4-U0-G3
VSR-1-64L-1-27K7	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-27K8	B3-U0-G3	B5-U0-G3
VSR-1-64L-1-30K7	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-30K8	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-35K8	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-40K7	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-40K8	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-50K7	B3-U0-G4	B5-U0-G3
VSR-1-64L-1-50K8	B3-U0-G4	B5-U0-G3



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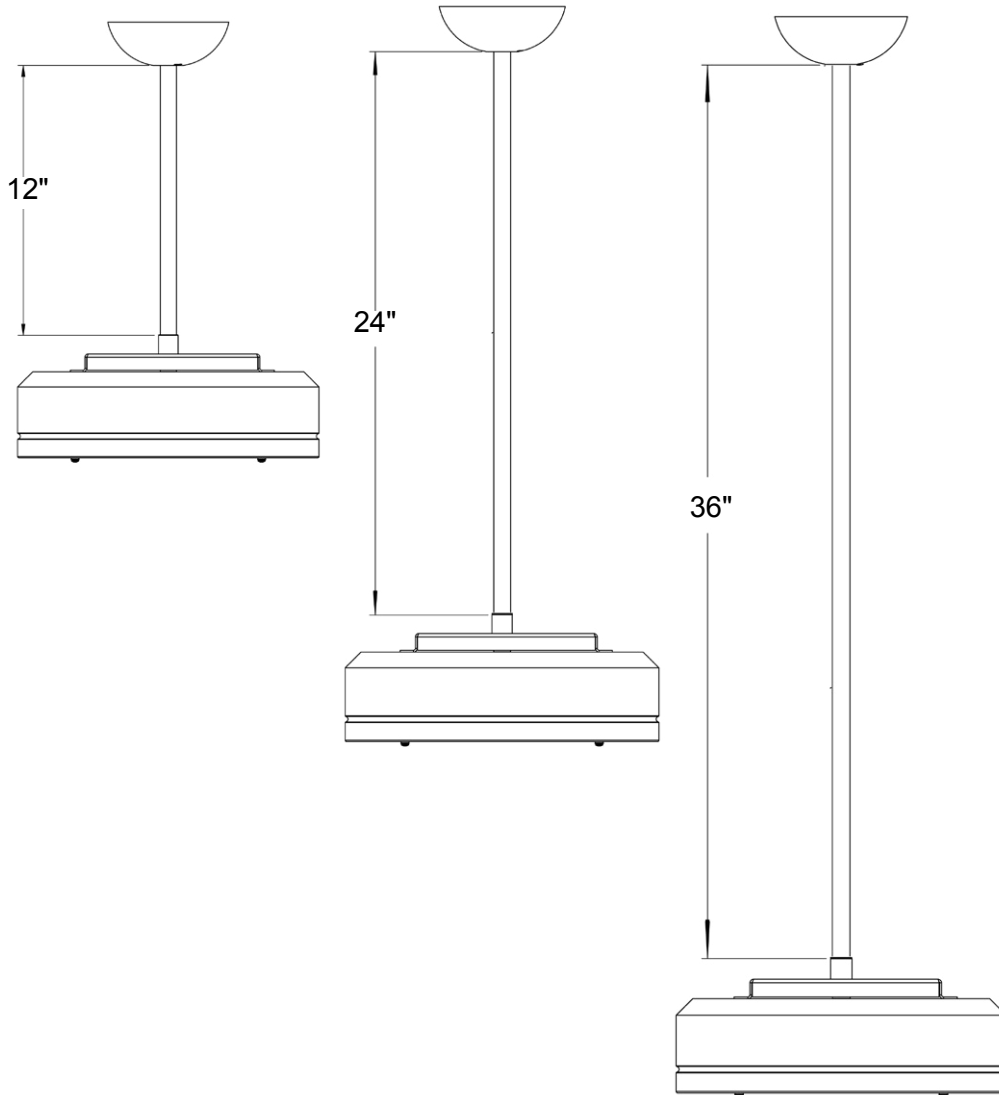
PRODUCT SPECIFICATIONS

PENDANT MOUNT (PMX)

Available lengths:

- 12" length (PM12)
- 24" Length (PM24)
- 36" Length (PM36)
- Custom Length (PMX)

*Consult factory for custom lengths



PRODUCT SPECIFICATIONS

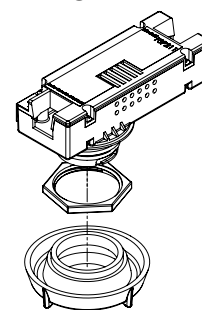
CONTROL OPTIONS

- DIMMING CONTROL (FSP)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211 WITH MOTION SENSOR (FSP-XX)

- FSP-211(FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 120/277VAC, 230-240VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

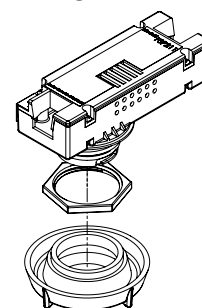
FSP-211



FSP-221 WITH MOTION SENSOR (FSP-HV-XX)

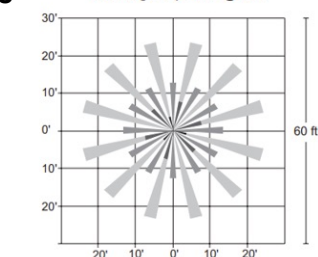
- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-221



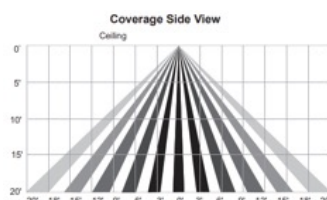
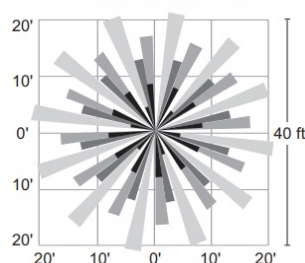
FSP-8

Coverage Top View @ 12ft.



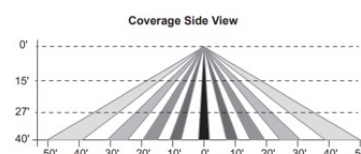
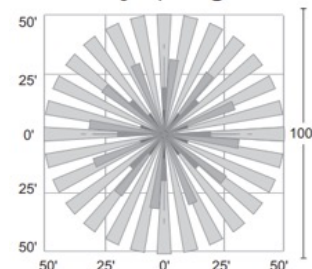
FSP-20

Coverage Top View @ 20 ft.



FSP-40

Coverage Top View @ 40ft



PRODUCT SPECIFICATIONS

MARINE GRADE FINISH (MGF)

The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



Powder Coat Finish

3-5 mil Powder Coat

Primer Layer

3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting

Chemically washed in multi Step 5 stage cleaning process