



LED Wattage Chart

Drive Current	80L	96L
350 milliamps	-	100W
530 milliamps	-	151W
700 milliamps	170W	199W
1050 milliamps	263W	316W

FORM AND FUNCTION

- Sleek, low profile housing
- Engineered for optimum thermal management
- Low depreciation rate
- Optical system designed for:
 - Parking Lots
 - Commercial Applications

CONSTRUCTION

- Die Formed heavy duty Aluminum
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP-67 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-2-SPMX ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Color Temp./CRI	Voltage
Value Series Round 2 (VSR-2)	Standard Silicone Micro Optics		Standard Configurations		Amber LED 595nm Dominant Wavelength Standard Turtle Friendly (AMBER) ^{1, 6, 7, 8} Amber LED Phosphor Converted (AMBER/PC) ^{1, 6, 7, 8} 2700K, 70 CRI (27K7) ² 2700K, 80 CRI (27K8) ² 3000K, 70 CRI (30K7) ² 3000K, 80 CRI (30K8) ² 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
	Type 2 (T2)	80 LED (80L)	1050 mA (1)		
	Type 3 (T3)	96 LED (96L)			
	Type 4 (T4)				
	Type 5 (T5)				
	Performance Silicone Micro Optics		Standard Configurations		
	Type 4 Forward Throw Wide (For Perimeters) (T4FTW)	80 LED (80L)	700 mA (7)		
	Type 5 Wide (for Improved Uniformity & Wider Pole Spacing) (T5W)	96 LED (96L)	1050 mA (1)		
			Performance Plus Configurations*		
			96 LED (96L)	350 mA (35) 530 mA (53)	

* 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)

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Mounting	Color	Controls Options	Options
Spider Mount (4-Bar) Slips Over 2-3/8" Tenon (SPM2)	Bronze Textured (BRZ)	Nema 7-Pin Receptacle (PE7)	Bird Spikes (BS)
Spider Mount (4-Bar) Slips Over 3" Tenon (SPM3)	White Textured (WHT)	Photocell + Receptacle (PCR)	Marine Grade Finish (MGF)
*For Round Poles please order RPA Adaptor	Smooth White Gloss (SWT)	Receptacle + Shorting Cap (PER)	Quick Mount Bracket (QMB)
	Silver Metallic (SVR)	FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)	Retrofit Mount Bracket (RQMB)
	Black Textured (BLK)	8' Heights (FSP211-8) ^{4, 10}	Round Pole Adaptor 3"-4" Pole (RPA4)
	Smooth Black Gloss (SBK)	9'-20' Heights (FSP211-20) ^{4, 10}	Round Pole Adaptor 5"-6" Pole (RPA5)
	Graphite Textured (GPH)	21'-40' Heights (FSP211-40) ^{4, 10}	Rotated Optic Left (ROL)
	Grey Textured (GRY)	FSP-221 w/Motion Sensor/Photocell (100/347VAC, 208/230/480VAC)	Rotated Optic Right (ROR)
	Green Textured (GRN)	8' Heights (FSP-HV-8) ¹¹	Single Fuse (SF)
	Hunter Green Textured (HGN)	9'-20' Heights (FSP-HV-20) ¹¹	Double Fuse (DF)
	Custom (CS)	21'-40' Heights (FSP-HV-40) ¹¹	Black Optical Frame (BOF) ¹
		Custom Controls Integration (CCI) ⁹	House Side Shield (HSS)
		Button Type Photocell (PC) ⁴	Buy American Act (BAA) ³
		FSP Remote (FSIR) ¹²	Trade Agreement Act (TAA) ³
		DALI-2 (D2) ⁹	Build America Buy American (BABA) ³

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. See estimated scaling chart for multiplier values to estimate lumen output Please contact Factory to verify the estimated performance data
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.



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nlsighting.com

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 is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the 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

- **BIRD SPIKES (BS)**—Offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **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.
 - 1-2 feet inside pole coverage top and bottom.
 - 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.
- **ROUND POLE ADAPTER (RPA)**—When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- **ROTATED OPTICS (ROL) (ROR)** - Rotated optics are designed for perimeter lighting for auto dealerships
- **BLACK OPTIC FRAME (BOF)** - Optional black optic frame. (includes black hardware) Standard is white

CONTROLS

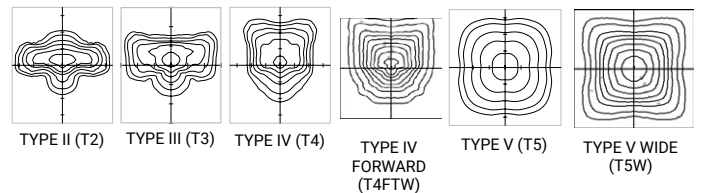
- **FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)** (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- **FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC)** (FSP-HV-X) - Passive infrared (PIR) sensor providing multi-level 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 9-20 feet.
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.

- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- **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 photothermal 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
- Dark Sky Approved
- IK10 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://nlsighting.com/buy-american/>



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



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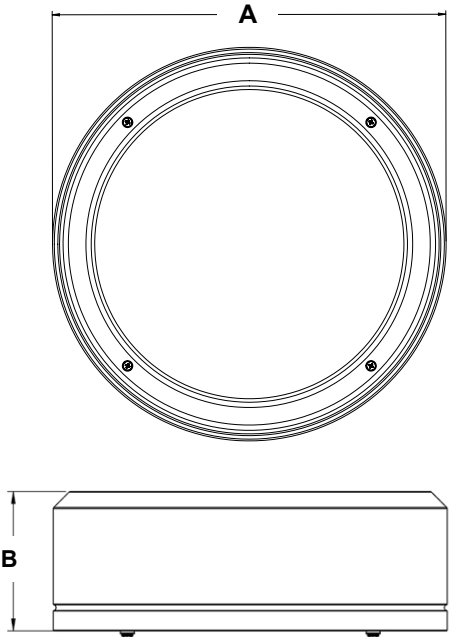
nlsighting.com

PRODUCT SPECIFICATIONS

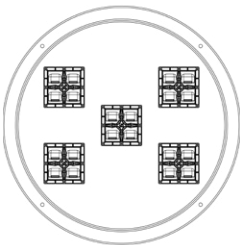
DIMENSION	VSR-2
A	21.5
B	6.5
Weight	24 lbs

EPA

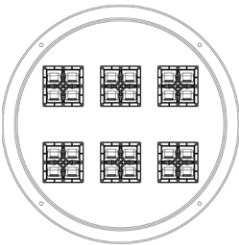
EPA	SGL	D90	D180	T90	T120	QD
VSR-2	.33	.66	.66	1.0	1.0	1.32



OPTICAL CONFIGURATIONS



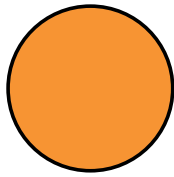
VSR-2 / 80L



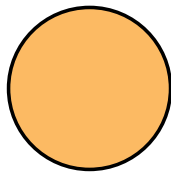
VSR-2 / 96L

PRODUCT SPECIFICATIONS

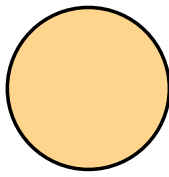
LED KELVIN RANGE



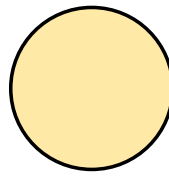
AMBER
585-600 nm



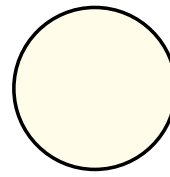
2700K 70 CRI



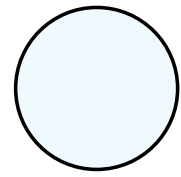
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

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

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	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 - 80 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
VSR-2-SPMX-80L-1-27K7	25444	97	24811	94	24588	93	25657	98	263
VSR-2-SPMX-80L-1-27K8	23827	91	23234	88	23025	88	24027	91	263
VSR-2-SPMX-80L-1-30K7	27510	105	26826	102	26585	101	27741	105	263
VSR-2-SPMX-80L-1-30K8	25548	97	24913	95	24689	94	25762	98	263
VSR-2-SPMX-80L-1-35K8	25548	97	24913	95	24689	94	25762	98	263
VSR-2-SPMX-80L-1-40K7	30261	115	29509	112	29244	111	30515	116	263
VSR-2-SPMX-80L-1-40K8	28010	107	27314	104	27069	103	28245	107	263
VSR-2-SPMX-80L-1-50K7	30261	115	29509	112	29244	111	30515	116	263
VSR-2-SPMX-80L-1-50K8	28010	107	27314	104	27069	103	28245	107	263

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 96 LED									
Part Number	T2	LPW	T3	LPW	T4	LPW	T5	LPW	Wattage
VSR-2-SPMX-96L-1-27K7	30571	97	29811	94	29544	93	30828	98	316
VSR-2-SPMX-96L-1-27K8	28628	91	27916	88	27666	88	28869	91	316
VSR-2-SPMX-96L-1-30K7	33054	105	32232	102	31943	101	33332	105	316
VSR-2-SPMX-96L-1-30K8	30697	97	29933	95	29665	94	30955	98	316
VSR-2-SPMX-96L-1-35K8	30697	97	29933	95	29665	94	30955	98	316
VSR-2-SPMX-96L-1-40K7	36359	115	35455	112	35137	111	36665	116	316
VSR-2-SPMX-96L-1-40K8	33654	107	32818	104	32523	103	33938	107	316
VSR-2-SPMX-96L-1-50K7	36359	115	35455	112	35137	111	36665	116	316
VSR-2-SPMX-96L-1-50K8	33654	107	32818	104	32523	103	33938	107	316

STANDARD SILICONE MICRO OPTICS - SHIELDED - 80 LED					
Part Number	T3 HSS	LPW	T4 HSS	LPW	Wattage
VSR-2-SPMX-80L-1-27K7	14108	54	13865	53	263
VSR-2-SPMX-80L-1-27K8	13212	50	12984	49	263
VSR-2-SPMX-80L-1-30K7	15254	58	14991	57	263
VSR-2-SPMX-80L-1-30K8	14166	54	13922	53	263
VSR-2-SPMX-80L-1-35K8	14166	54	13922	53	263
VSR-2-SPMX-80L-1-40K7	17358	66	17095	65	263
VSR-2-SPMX-80L-1-40K8	16067	61	15823	60	263
VSR-2-SPMX-80L-1-50K7	17358	66	17095	65	263
VSR-2-SPMX-80L-1-50K8	16067	61	15823	60	263

STANDARD SILICONE MICRO OPTICS - SHIELDED - 96 LED					
Part Number	T3 HSS	LPW	T4 HSS	LPW	Wattage
VSR-2-SPMX-96L-1-27K7	16951	54	16659	53	316
VSR-2-SPMX-96L-1-27K8	15874	50	15600	49	316
VSR-2-SPMX-96L-1-30K7	18328	58	18012	57	316
VSR-2-SPMX-96L-1-30K8	17021	54	16727	53	316
VSR-2-SPMX-96L-1-35K8	17021	54	16727	53	316
VSR-2-SPMX-96L-1-40K7	20856	66	20540	65	316
VSR-2-SPMX-96L-1-40K8	19305	61	19012	60	316
VSR-2-SPMX-96L-1-50K7	20856	66	20540	65	316
VSR-2-SPMX-96L-1-50K8	19305	61	19012	60	316

PRODUCT SPECIFICATIONS

LUMEN CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 80 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
VSR-2-SPMX-80L-7-27K7	14551	86	19353	114	170
VSR-2-SPMX-80L-7-27K8	13626	80	18123	107	170
VSR-2-SPMX-80L-7-30K7	15734	93	20926	123	170
VSR-2-SPMX-80L-7-30K8	14612	86	19434	114	170
VSR-2-SPMX-80L-7-35K8	14612	86	19434	114	170
VSR-2-SPMX-80L-7-40K7	17000	100	22610	133	170
VSR-2-SPMX-80L-7-40K8	15735	93	20928	123	170
VSR-2-SPMX-80L-7-50K7	17000	100	22610	133	170
VSR-2-SPMX-80L-7-50K8	15735	93	20928	123	170
VSR-2-SPMX-80L-7-27K7	21092	83	23486	92	254
VSR-2-SPMX-80L-7-27K8	19752	78	21993	87	254
VSR-2-SPMX-80L-7-30K7	22804	90	25393	100	254
VSR-2-SPMX-80L-7-30K8	21178	83	23582	93	254
VSR-2-SPMX-80L-7-35K8	21178	83	23582	93	254
VSR-2-SPMX-80L-7-40K7	24640	97	27437	108	254
VSR-2-SPMX-80L-7-40K8	22807	90	25396	100	254
VSR-2-SPMX-80L-7-50K7	24640	97	27437	108	254
VSR-2-SPMX-80L-7-50K8	22807	90	25396	100	254

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 96 LED					
Part Number	T4FTW	LPW	T5W	LPW	Wattage
VSR-2-SPMX-96L-35-27K7	9673	97	12241	122	100
VSR-2-SPMX-96L-35-27K8	9058	91	11463	115	100
VSR-2-SPMX-96L-35-30K7	10458	105	13235	132	100
VSR-2-SPMX-96L-35-30K8	9712	97	12291	123	100
VSR-2-SPMX-96L-35-35K8	9712	97	12291	123	100
VSR-2-SPMX-96L-35-40K7	11300	113	14300	143	100
VSR-2-SPMX-96L-35-40K8	10459	105	13236	132	100
VSR-2-SPMX-96L-35-50K7	11300	113	14300	143	100
VSR-2-SPMX-96L-35-50K8	10459	105	13236	132	100
VSR-2-SPMX-96L-53-27K7	13830	92	18871	125	151
VSR-2-SPMX-96L-53-27K8	12951	86	17672	117	151
VSR-2-SPMX-96L-53-30K7	14953	99	20404	135	151
VSR-2-SPMX-96L-53-30K8	13887	92	18884	125	151
VSR-2-SPMX-96L-53-35K8	13887	92	18884	125	151
VSR-2-SPMX-96L-53-40K7	16157	107	22046	146	151
VSR-2-SPMX-96L-53-40K8	14955	99	20406	135	151
VSR-2-SPMX-96L-53-50K7	16157	107	22046	146	151
VSR-2-SPMX-96L-53-50K8	14955	99	20406	135	151
VSR-2-SPMX-96L-7-27K7	17205	86	23166	116	199
VSR-2-SPMX-96L-7-27K8	16111	81	21694	109	199
VSR-2-SPMX-96L-7-30K7	18602	93	25048	126	199
VSR-2-SPMX-96L-7-30K8	17275	87	23261	117	199
VSR-2-SPMX-96L-7-35K8	17275	87	23261	117	199
VSR-2-SPMX-96L-7-40K7	20099	101	27064	136	199
VSR-2-SPMX-96L-7-40K8	18604	93	25051	126	199
VSR-2-SPMX-96L-7-50K7	20099	101	27064	136	199
VSR-2-SPMX-96L-7-50K8	18604	93	25051	126	199
VSR-2-SPMX-96L-1-27K7	25380	85	31854	107	299
VSR-2-SPMX-96L-1-27K8	23767	79	29830	100	299
VSR-2-SPMX-96L-1-30K7	27441	92	34441	115	299
VSR-2-SPMX-96L-1-30K8	25484	85	31985	107	299
VSR-2-SPMX-96L-1-35K8	25484	85	31985	107	299
VSR-2-SPMX-96L-1-40K7	29650	99	37214	124	299
VSR-2-SPMX-96L-1-40K8	27445	92	34446	115	299
VSR-2-SPMX-96L-1-50K7	29650	99	37214	124	299
VSR-2-SPMX-96L-1-50K8	27445	92	34446	115	299

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - STANDARD MICRO OPTICS

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 80 LED				
Part Number	T2	T3	T4	T5
VSR-2-SPMX-80L-1-27K7	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-27K8	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-30K7	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-30K8	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-35K8	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-40K7	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-40K8	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-50K7	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-50K8	B3-U0-G3	B3-U0-G4	B3-U0-G4	B5-U0-G4

STANDARD SILICONE MICRO OPTICS - NON-SHIELDED - 96 LED				
Part Number	T2	T3	T4	T5
VSR-2-SPMX-96L-1-27K7	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-27K8	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-30K7	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-30K8	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-35K8	B3-U0-G4	B3-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-40K7	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-40K8	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-50K7	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-50K8	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4

STANDARD SILICONE MICRO OPTICS - SHIELDED - 80 LED		
Part Number	T3 HSS	T4 HSS
VSR-2-SPMX-80L-1-27K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-27K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-30K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-30K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-35K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-40K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-40K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-50K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-80L-1-50K8	B1-U0-G3	B1-U0-G3

STANDARD SILICONE MICRO OPTICS - SHIELDED - 96 LED		
Part Number	T3 HSS	T4 HSS
VSR-2-SPMX-96L-1-27K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-96L-1-27K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-96L-1-30K7	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-96L-1-30K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-96L-1-35K8	B1-U0-G3	B1-U0-G3
VSR-2-SPMX-96L-1-40K7	B1-U0-G4	B1-U0-G4
VSR-2-SPMX-96L-1-40K8	B1-U0-G4	B1-U0-G4
VSR-2-SPMX-96L-1-50K7	B1-U0-G4	B1-U0-G4
VSR-2-SPMX-96L-1-50K8	B1-U0-G4	B1-U0-G4

PRODUCT SPECIFICATIONS

BUG RATING CHARTS - PERFORMANCE MICRO OPTICS

PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 80 LED		
Part Number	T4FTW	T5W
VSR-2-SPMX-80L-1-27K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-27K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-30K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-30K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-35K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-40K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-40K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-50K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-80L-1-50K8	B3-U0-G4	B5-U0-G4

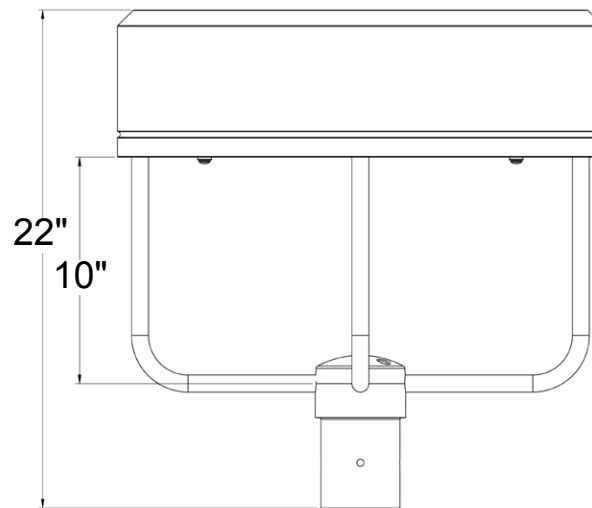
PERFORMANCE SILICONE MICRO OPTICS - NON-SHIELDED - 96 LED		
Part Number	T4FTW	T5W
VSR-2-SPMX-96L-35-27K7	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-27K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-30K7	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-30K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-35K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-40K7	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-40K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-50K7	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-35-50K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-53-27K7	B2-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-27K8	B2-U0-G3	B4-U0-G3
VSR-2-SPMX-96L-53-30K7	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-30K8	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-35K8	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-40K7	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-40K8	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-50K7	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-53-50K8	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-7-27K7	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-7-27K8	B3-U0-G3	B5-U0-G3
VSR-2-SPMX-96L-7-30K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-30K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-35K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-40K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-40K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-50K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-7-50K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-27K7	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-27K8	B3-U0-G4	B5-U0-G4
VSR-2-SPMX-96L-1-30K7	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-30K8	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-35K8	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-40K7	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-40K8	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-50K7	B3-U0-G5	B5-U0-G4
VSR-2-SPMX-96L-1-50K8	B3-U0-G5	B5-U0-G4

PRODUCT SPECIFICATIONS

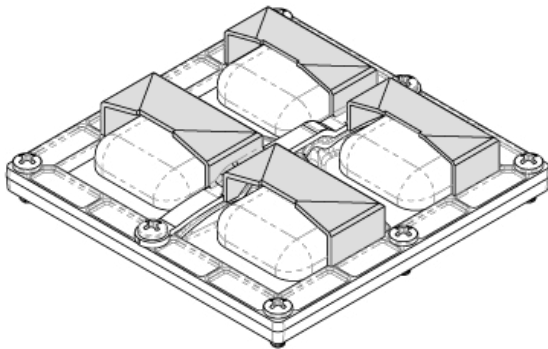
SPIDER MOUNT (SPMX)

Aluminum, 4-bar spider arm mounts over round tenon at two outer dimensions:

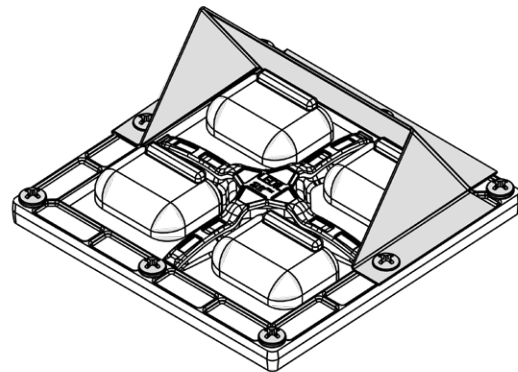
- Over 2-3/8" (SPM2)
- Over 3" (SPM3)



HOUSE SIDE SHIELD



AUTOMOTIVE HOUSE SIDE SHIELD



PRODUCT SPECIFICATIONS

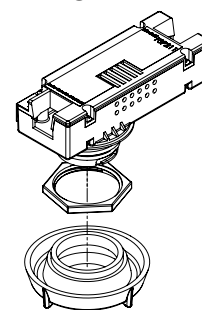
CONTROL OPTIONS

- 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.

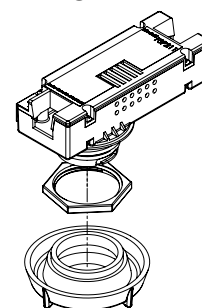
FSP-211



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

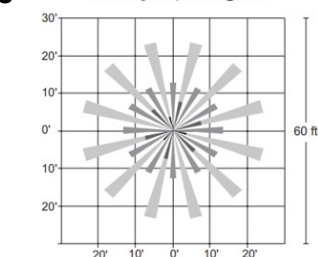
- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- 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



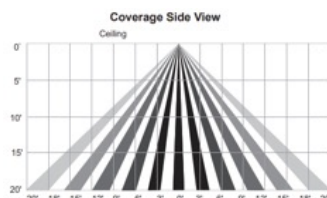
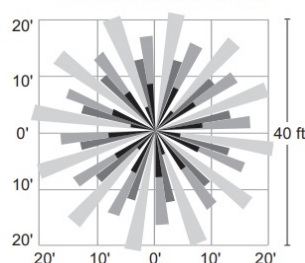
FSP-8

Coverage Top View @ 12ft.



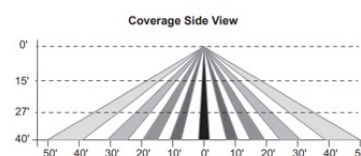
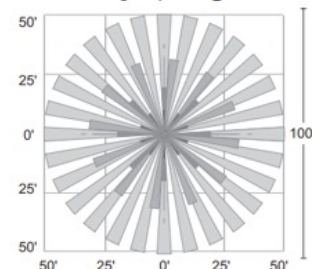
FSP-20

Coverage Top View @ 20 ft.



FSP-40

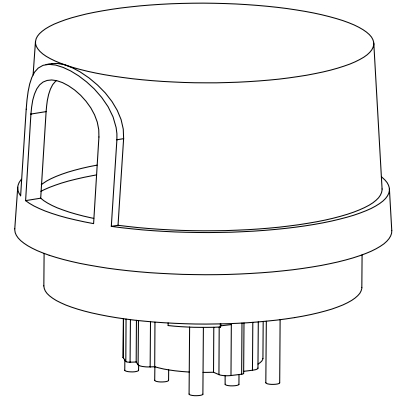
Coverage Top View @ 40ft



PRODUCT SPECIFICATIONS

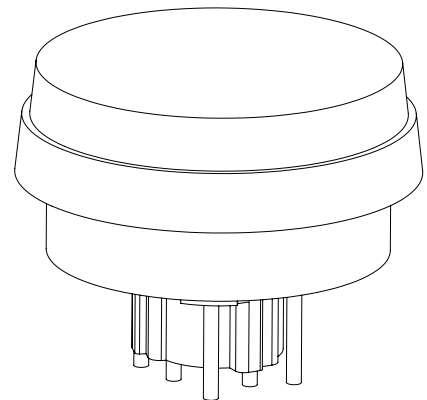
PHOTOCELL + RECEPTACLE (PCR)

7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.



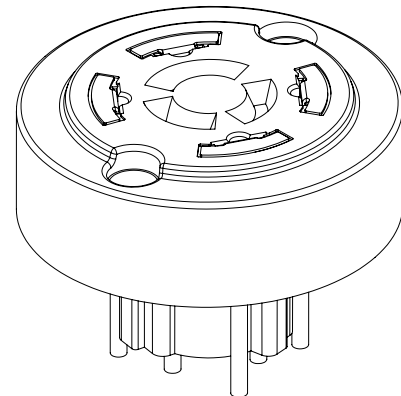
RECEPTACLE + SHORTING CAP (PER)

7-Pin Receptacle and Shorting Cap.



NEMA 7-PIN RECEPTACLE (PE7)

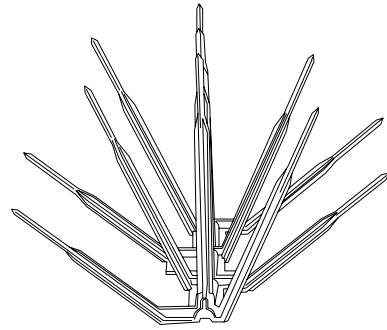
An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



PRODUCT SPECIFICATIONS

BIRD SPIKES (BS)

Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.



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

BUTTON PHOTOCELL

Photo Cell for dusk to dawn operation.

