NLS LIGHTING

# VSS-1-SPMX

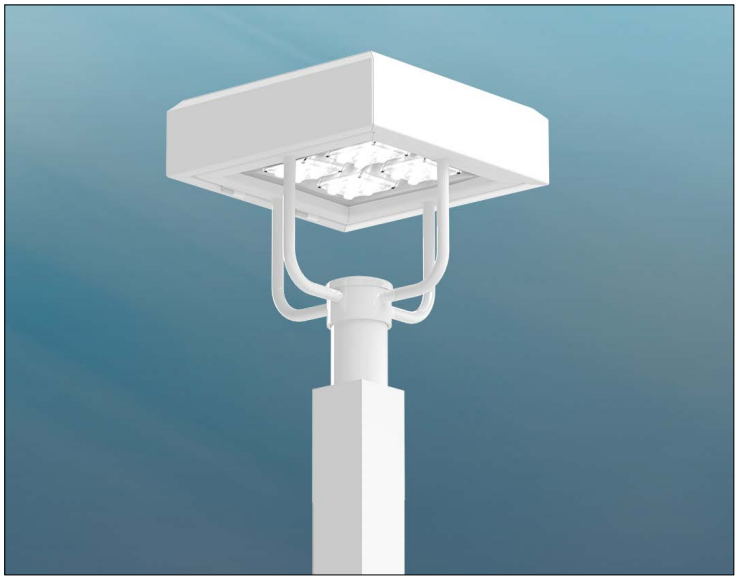
SITE LIGHTING

## 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

## FINISH
- 3-5 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
- Certified to UL 1598
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated

**LED WATTAGE CHART**

| | 32L | 48L | 64L |
|---|---|---|---|
| **350 milliamps** | - | - | - |
| **530 milliamps** | - | - | - |
| **700 milliamps** | 71w | 104w | 136w |
| **1050 milliamps** | 106w | 156w | 205w |

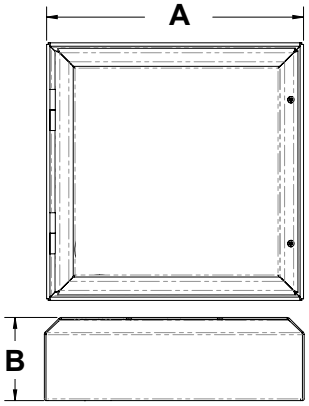
Project Name:

Type:

| Cat # | Light Dist. | No. of LEDs | Milliamps | Kelvin | Volts | Mounting | Color | Options |
|---|---|---|---|---|---|---|---|---|
| *Value Series Square 1* **(VSS-1)** | Type 2 **(T2)**<br>Type 3 **(T3)**<br>Type 4 **(T4)**<br>Type 5 **(T5)**<br>Nema 3 30° Narrow Beam **(N3)** | 32 **(32L)**<br>48 **(48L)**<br>64 **(64L)** | 700 **(7)**<br>1050 **(1)** | 3000K **(30K)**<br>4000K **(40K)**<br>5000K **(50K)** | 120-277 **(UNV)**<br>340-480 **(HV)** | Spider Mount<br>Over 2⅜" Tenon **(SPM2)**<br>Over 3" Tenon **(SPM3)** | Bronze **(BRZ)**<br>White **(WHT)**<br>Silver **(SVR)**<br>Black **(BLK)**<br>Graphite **(GPH)**<br>Grey **(GRY)**<br>Custom **(CS)** | Bird Spikes **(BS)**<br>Marine Grade Finish **(MGF)**<br>Surge Protector **(10K)**<br>Nema 7-Pin Receptacle **(PE7)**<br>Photocell **(PC)**<br>**Universal Voltage 120-277*<br>Photocell + Receptacle **(PCR)**<br>Motion Sensor **(MS)**<br>FSP-211 with Motion Sensor (UNV Voltage)<br>*For 8' + Below* **(FSP-8)**<br>*For 9' to 20'* **(FSP-20)**<br>*For 21' to 40'* **(FSP-40)**<br>****Motion Sensor and FSP-211 are integral to the fixture***<br>Quick Mount Bracket **(QMB)**<br>Retrofit Quick Mount Bracket **(RQMB)**<br>Internal Microwave Motion Sensor **(IMMS)**<br>Rotate Optic Right **(ROR)**<br>Rotate Optic Left **(ROL)**<br>Round Pole Adaptor 3"-4" Pole **(RPA4)**<br>Round Pole Adaptor 5"-6" Pole **(RPA5)**<br>House Side Shields **(HSS)**<br>****HSS not applicable with N3 - NEMA 30° Optics***<br>Automotive House Side Shield **(AHS)**<br>Acrylic Optics **(AO)** |

## ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is ≥ .95, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K




| DIMENSION | VSS-1 |
|---|---|
| A | 17 in. SQ |
| B | 5 in. |
| Weight | 23 lbs |

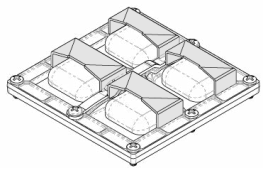
## OPTIONS

- **BIRD DETERRANT (BD)**—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.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **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.

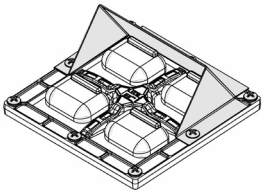
### CONTROLS

- **FSP-211 (FSP-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.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **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.
- **INTERNAL MICROWAVE MOTION SENSOR (IMMS)**—IMMS is an innovative motion sensor, switch on light on movement detection, switch off after hold time if no motion detected. Built-in daylight sensor reads brightness value, the sensor does not switch on if sufficient natural light.
  - **DETECTION AREA –**Detection area can be reduced by selecting DIP switches for each application precisely
  - **HOLD TIME –**Time period lamp remains at 100% illumination after no motion detected.
  - **DAYLIGHT SENSOR –**Sensor can be set to restrict lamp illumination below specific ambient brightness threshold. When set to Disable Mode, daylight sensor switches lamp on, when motion detected regardless of ambient light levels.
  - **MODE–** When set to Disable, microwave sensor function is inactive, lights turned on or off manually. When set to Sensor, microwave sensor function is active.

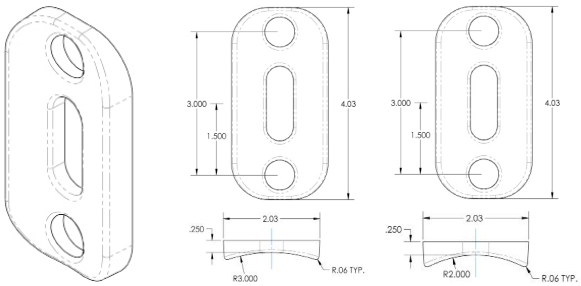
**HOUSE SIDE SHIELD**



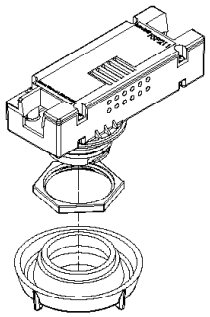
**AUTOMOTIVE HOUSE SIDE SHIELD**



**RPA4 / RPA5**



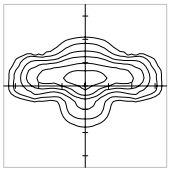

**FSP-211**

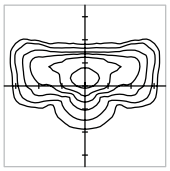


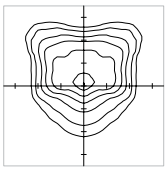
## OPTICS

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


TYPE II (T2)


TYPE III (T3)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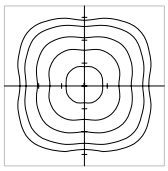
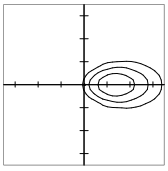
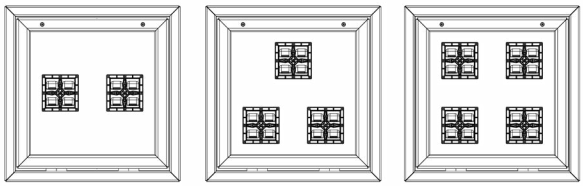

TYPE V (T5)


NEMA 3 (N3)

NLS LIGHTING
701 Kingshill Place, Carson, CA 90746
**Call Us Today** (310) 341-2037
**nlslighting.com**

## OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



**VSS-1 / 32L** **VSS-1 / 48L** **VSS-1 / 64L**

## LUMENS

| PART NUMBER | N3 | LM/W | T2 | LM/W | DLC | BUG | T3 HSS | LM/W | BUG | T3 | LM/W | DLC | BUG | T4 AHS | LM/W | T4 HSS | LM/W | BUG | T4 | LM/W | DLC | BUG | T5 | LM/W | DLC | BUG | W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VSS-1-32L-7-30K | 7952 | 112 | 7384 | 104 | S | B1-U0-G1 | 4118 | 58 | B0-U0-G1 | 7242 | 102 | S | B2-U0-G2 | 5112 | 72 | 4047 | 57 | B0-U0-G1 | 7668 | 108 | S | B2-U0-G2 | 8179 | 115 | P | B3-U0-G2 | 71 |
| VSS-1-32L-7-40K | 8236 | 116 | 8023 | 113 | P | B2-U0-G2 | 4402 | 62 | B0-U0-G1 | 7952 | 112 | P | B2-U0-G2 | 5396 | 76 | 4331 | 61 | B0-U0-G1 | 8307 | 117 | P | B2-U0-G2 | 8946 | 126 | P | B3-U0-G2 | 71 |
| VSS-1-32L-7-50K | 8520 | 120 | 8662 | 122 | P | B2-U0-G2 | 4686 | 66 | B0-U0-G1 | 8520 | 120 | P | B2-U0-G2 | 5680 | 80 | 4615 | 65 | B0-U0-G2 | 8946 | 126 | P | B2-U0-G2 | 9585 | 135 | P | B3-U0-G2 | 71 |
| VSS-1-32L-1-30K | 11872 | 112 | 10706 | 101 | S | B2-U0-G2 | 6148 | 58 | B0-U0-G2 | 10600 | 100 | S | B2-U0-G2 | 7632 | 72 | 6042 | 57 | B0-U0-G2 | 10812 | 102 | S | B2-U0-G2 | 11125 | 105 | S | B4-U0-G2 | 106 |
| VSS-1-32L-1-40K | 12296 | 116 | 11660 | 110 | S | B2-U0-G2 | 6572 | 62 | B0-U0-G2 | 11554 | 109 | S | B2-U0-G2 | 8056 | 76 | 6466 | 61 | B0-U0-G2 | 11766 | 111 | S | B2-U0-G2 | 12190 | 115 | S | B4-U0-G2 | 106 |
| VSS-1-32L-1-50K | 12720 | 120 | 12508 | 118 | S | B2-U0-G2 | 6996 | 66 | B0-U0-G2 | 12402 | 117 | P | B2-U0-G2 | 8480 | 80 | 6890 | 65 | B0-U0-G2 | 12508 | 118 | S | B2-U0-G2 | 13144 | 124 | P | B4-U0-G2 | 106 |
| VSS-1-48L-7-30K | 11648 | 112 | 10816 | 104 | S | B2-U0-G2 | 6032 | 58 | B0-U0-G2 | 10712 | 103 | S | B2-U0-G2 | 7488 | 72 | 5928 | 57 | B0-U0-G2 | 11232 | 108 | S | B2-U0-G2 | 12272 | 118 | P | B4-U0-G2 | 104 |
| VSS-1-48L-7-40K | 12064 | 116 | 11752 | 113 | S | B2-U0-G2 | 6448 | 62 | B0-U0-G2 | 11648 | 112 | S | B2-U0-G2 | 7904 | 76 | 6344 | 61 | B0-U0-G2 | 12168 | 117 | S | B2-U0-G2 | 13312 | 128 | P | B4-U0-G2 | 104 |
| VSS-1-48L-7-50K | 12480 | 120 | 12688 | 122 | P | B2-U0-G2 | 6864 | 66 | B0-U0-G2 | 12480 | 120 | P | B2-U0-G2 | 8320 | 80 | 6760 | 65 | B0-U0-G2 | 13104 | 126 | P | B3-U0-G3 | 14248 | 137 | P | B4-U0-G2 | 104 |
| VSS-1-48L-1-30K | 17472 | 112 | 16559 | 106 | S | B3-U0-G3 | 9048 | 58 | B0-U0-G2 | 15756 | 101 | S | B3-U0-G3 | 11232 | 72 | 8892 | 57 | B1-U0-G2 | 15912 | 102 | S | B3-U0-G3 | 16536 | 106 | S | B4-U0-G2 | 156 |
| VSS-1-48L-1-40K | 18096 | 116 | 17160 | 110 | S | B3-U0-G3 | 9672 | 62 | B1-U0-G2 | 17004 | 109 | S | B3-U0-G3 | 11856 | 76 | 9516 | 61 | B1-U0-G2 | 17316 | 111 | S | B3-U0-G3 | 17940 | 115 | S | B4-U0-G2 | 156 |
| VSS-1-48L-1-50K | 18720 | 120 | 18408 | 118 | P | B3-U0-G3 | 10296 | 66 | B1-U0-G2 | 18252 | 117 | P | B3-U0-G3 | 12480 | 80 | 10140 | 65 | B1-U0-G2 | 18408 | 118 | P | B3-U0-G3 | 19188 | 123 | P | B4-U0-G2 | 156 |
| VSS-1-64L-7-30K | 15232 | 112 | 14144 | 104 | S | B2-U0-G2 | 7888 | 58 | B0-U0-G2 | 13736 | 101 | S | B3-U0-G3 | 9792 | 72 | 7752 | 57 | B0-U0-G2 | 14688 | 108 | S | B3-U0-G3 | 16048 | 118 | S | B4-U0-G2 | 136 |
| VSS-1-64L-7-40K | 15776 | 116 | 15368 | 113 | S | B3-U0-G3 | 8432 | 62 | B0-U0-G2 | 14824 | 109 | S | B3-U0-G3 | 10336 | 76 | 8296 | 61 | B1-U0-G2 | 15912 | 117 | P | B3-U0-G3 | 17408 | 128 | S | B4-U0-G2 | 136 |
| VSS-1-64L-7-50K | 16320 | 120 | 16592 | 122 | P | B3-U0-G3 | 8976 | 66 | B0-U0-G2 | 16048 | 118 | P | B3-U0-G3 | 10880 | 80 | 8840 | 65 | B1-U0-G2 | 17136 | 126 | P | B3-U0-G3 | 18632 | 137 | P | B4-U0-G2 | 136 |
| VSS-1-64L-1-30K | 22960 | 112 | 21730 | 106 | S | B3-U0-G3 | 11890 | 58 | B1-U0-G2 | 20705 | 101 | S | B3-U0-G3 | 14760 | 72 | 11685 | 57 | B1-U0-G2 | 20910 | 102 | S | B3-U0-G3 | 21730 | 106 | S | B5-U0-G3 | 205 |
| VSS-1-64L-1-40K | 23780 | 116 | 22550 | 110 | S | B3-U0-G3 | 12710 | 62 | B1-U0-G2 | 22345 | 109 | S | B3-U0-G3 | 15580 | 76 | 12505 | 61 | B1-U0-G3 | 22755 | 111 | S | B3-U0-G3 | 23575 | 115 | S | B5-U0-G3 | 205 |
| VSS-1-64L-1-50K | 24600 | 120 | 24190 | 118 | P | B3-U0-G3 | 13530 | 66 | B1-U0-G2 | 23780 | 116 | P | B3-U0-G3 | 16400 | 80 | 13325 | 65 | B1-U0-G3 | 24190 | 118 | P | B3-U0-G4 | 25215 | 123 | P | B5-U0-G3 | 205 |

***DLC** *S= Standard*
*P= Premium*

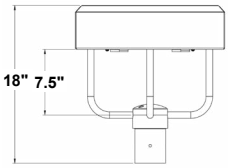
### L70/L90 DATA

| Temp. | VSS-1 | |
|---|---|---|
| 25°C | L70 | L90 |
| | 483,000 | >60,000 |
| 50°C | L70 | L90 |
| | 180,000 | >60,000 |

### EPA

| EPA | SGL | D90 | D180 | T90 | T120 | QD |
|---|---|---|---|---|---|---|
| VSS-1 | 0.90 | 1.52 | 1.80 | 2.34 | 2.43 | 2.34 |

## MOUNTING OPTIONS




### SPIDER MOUNT (SPMX)

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

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