

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%
- Exceeds IES foot candle levels utilizing the least number of fixtures per project
- Optical system designed for Parking Structures

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

- 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

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	56w	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

VSS-S

VSS-1

Project Name:

Type:

Cat #	Micro Optics	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Value Series Square Small (VSS-S)	Type 2 (T2)	VSS-S 16 (16L) 32 (32L)	350 (35) <i>*16L Only</i>	3000K (30K)	120-277 (UNV)	Ceiling Mount (CM)	White (WHT)	Marine Grade Finish (MGF)
Value Series Square 1 (VSS-1)	Type 3 (T3)	VSS-1 32 (32L)	530 (53) <i>*16L-32L Only</i>	4000K (40K)		Pendant Mount 12" Length (PM12) 24" Length (PM24) 36" Length (PM36) Custom Length (PMX)	Silver (SVR)	Emergency Battery Back-Up (EB)
	Type 4 (T4)	48 (48L) 64 (64L)		5000K (50K)			Graphite (GPH)	Motion Sensor (MS)
	Type 5 (T5)		700 (7) 1050 (1)				Grey (GRY)	FSP-211 with Motion Sensor <u>(UNV Voltage)</u> (FSP-8) <i>*For 8' + Below</i>
							Bronze (BRZ)	Internal Microwave Motion Sensor (IMMS)
							Custom (CS)	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 $\geq .95$, 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

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.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **EMERGENCY BATTERY BACK-UP (EB)**—
 - 100-277 VAC $\pm$ 10%, 50/60 Hz Input Voltage
 - 43mA Max. Input Current
 - 2.82W Max. Input Power
 - 24-48 Hours Recharge Time
 - Battery Type NiCd 9.6VDC or LiFePO4 9.6VDC
 - 90 Minutes Min. Illumination Time
 - 20W Total Max. LED Powered
 - Class 2 Output Classification

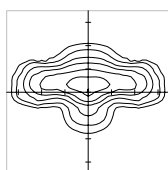
CONTROLS

- **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.
- **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.

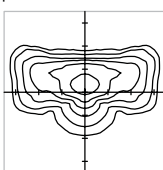
OPTICS

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.

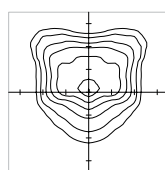
- IES Types



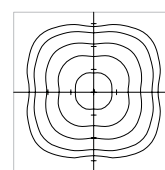
TYPE II (T2)



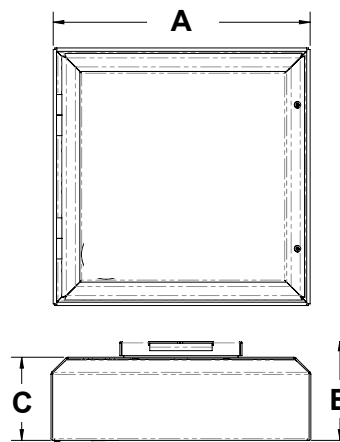
TYPE III (T3)



TYPE IV (T4)

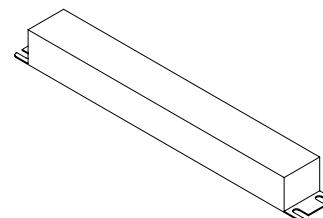


TYPE V (T5)

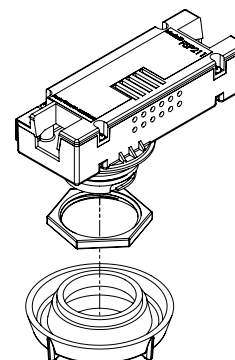


DIMENSION	VSS-S	VSS-1
A	12.5 in. SQ	17 in. SQ
B	4.83 in.	5.83 in.
C	4.00 in.	5.00 in.
WEIGHT	11 lbs.	23 lbs.

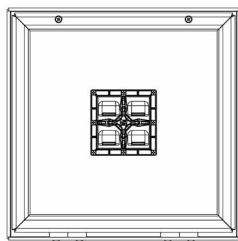
EMERGENCY BATTERY BACK-UP (EB)



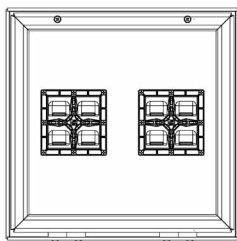
FSP-211



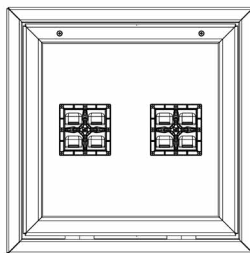
OPTICAL CONFIGURATIONS



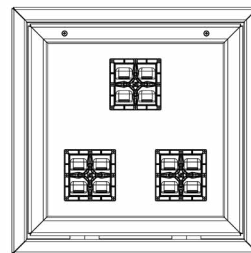
VSS-S / 16L



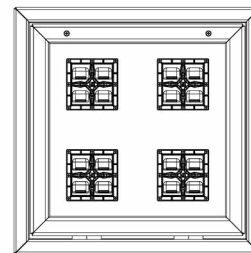
VSS-S / 32L



VSS-1 / 32L



VSS-1 / 48L



VSS-1 / 64L

LUMENS

PART NUMBER	T2 LUMENS	T2 LM/W	DLC LISTING	T3 LUMENS	T3 LM/W	DLC LISTING	T4 LUMENS	T4 LM/W	DLC LISTING	T5 LUMENS	T5 LM/W	DLC LISTING	WATTS
VSS-S-16L-35-30K	1980	110	PREMIUM	1944	108	PREMIUM	2034	113	PREMIUM	2220	123	PREMIUM	18
VSS-S-16L-35-40K	2142	119	PREMIUM	2106	117	PREMIUM	2196	122	PREMIUM	2304	128	PREMIUM	18
VSS-S-16L-35-50K	2304	128	PREMIUM	2268	126	PREMIUM	2470	137	PREMIUM	2408	133	PREMIUM	18
VSS-S-16L-53-30K	2968	106	STANDARD	2940	105	STANDARD	3080	110	PREMIUM	3192	114	PREMIUM	28
VSS-S-16L-53-40K	3220	115	PREMIUM	3192	114	PREMIUM	3332	119	PREMIUM	3332	119	PREMIUM	28
VSS-S-16L-53-50K	3472	124	PREMIUM	3416	122	PREMIUM	3584	128	PREMIUM	3472	124	PREMIUM	28
VSS-S-16L-7-30K	3672	102	STANDARD	3636	101	STANDARD	3816	106	STANDARD	3960	110	PREMIUM	36
VSS-S-16L-7-40K	3996	111	PREMIUM	3924	109	PREMIUM	4104	114	PREMIUM	4140	115	PREMIUM	36
VSS-S-16L-7-50K	4284	119	PREMIUM	4248	118	PREMIUM	4428	123	PREMIUM	4392	122	PREMIUM	36
VSS-S-16L-1-30K	5544	99	STANDARD	5488	98	STANDARD	5408	96	STANDARD	5992	107	STANDARD	56
VSS-S-16L-1-40K	6048	108	STANDARD	5936	106	STANDARD	5992	107	STANDARD	6496	116	PREMIUM	56
VSS-S-16L-1-50K	6496	116	PREMIUM	6384	114	PREMIUM	6440	115	PREMIUM	6608	118	PREMIUM	56
VSS-S-32L-53-30K	5936	106	STANDARD	5880	105	STANDARD	6160	110	STANDARD	6440	115	PREMIUM	56
VSS-S-32L-53-40K	6440	115	PREMIUM	6384	114	PREMIUM	6664	119	PREMIUM	6664	119	PREMIUM	56
VSS-S-32L-53-50K	6944	124	PREMIUM	6832	122	PREMIUM	7168	128	PREMIUM	6888	123	PREMIUM	56
VSS-S-32L-7-30K	7242	102	STANDARD	7171	101	STANDARD	7455	105	STANDARD	7810	110	STANDARD	71
VSS-S-32L-7-40K	7881	111	STANDARD	7739	109	STANDARD	8094	114	PREMIUM	8165	115	PREMIUM	71
VSS-S-32L-7-50K	8520	120	PREMIUM	8378	118	PREMIUM	8733	123	PREMIUM	8449	119	PREMIUM	71
VSS-S-32L-1-30K	10494	99	STANDARD	10265	97	STANDARD	10494	99	STANDARD	11342	107	STANDARD	106
VSS-S-32L-1-40K	11448	108	STANDARD	11342	107	STANDARD	11342	107	STANDARD	12296	116	STANDARD	106
VSS-S-32L-1-50K	12402	117	STANDARD	12190	115	STANDARD	12190	115	STANDARD	12508	118	STANDARD	106
VSS-1-32L-7-30K	7384	104	STANDARD	7242	102	STANDARD	7668	108	STANDARD	8179	115	PREMIUM	71
VSS-1-32L-7-40K	8023	113	PREMIUM	7952	112	PREMIUM	8307	117	PREMIUM	8946	126	PREMIUM	71
VSS-1-32L-7-50K	8662	122	PREMIUM	8520	120	PREMIUM	8946	126	PREMIUM	9585	135	PREMIUM	71
VSS-1-32L-1-30K	10706	101	STANDARD	10600	100	STANDARD	10812	102	STANDARD	11125	105	STANDARD	106
VSS-1-32L-1-40K	11660	110	STANDARD	11554	109	STANDARD	11766	111	STANDARD	12190	115	STANDARD	106
VSS-1-32L-1-50K	12508	118	STANDARD	12402	117	PREMIUM	12508	118	STANDARD	13144	124	PREMIUM	106
VSS-1-48L-7-30K	10816	104	STANDARD	10712	103	STANDARD	11232	108	STANDARD	12272	118	PREMIUM	104
VSS-1-48L-7-40K	11752	113	STANDARD	11648	112	STANDARD	12168	117	STANDARD	13312	128	PREMIUM	104
VSS-1-48L-7-50K	12688	122	PREMIUM	12480	120	PREMIUM	13104	126	PREMIUM	14248	137	PREMIUM	104
VSS-1-48L-1-30K	16559	106	STANDARD	15756	101	STANDARD	15912	102	STANDARD	16536	106	STANDARD	156
VSS-1-48L-1-40K	17160	110	STANDARD	17004	109	STANDARD	17316	111	STANDARD	17940	115	STANDARD	156
VSS-1-48L-1-50K	18408	118	PREMIUM	18252	117	PREMIUM	18408	118	PREMIUM	19188	123	PREMIUM	156
VSS-1-64L-7-30K	14144	104	STANDARD	13736	101	STANDARD	14688	108	STANDARD	16048	118	STANDARD	136
VSS-1-64L-7-40K	15368	113	STANDARD	14824	109	STANDARD	15912	117	PREMIUM	17408	128	STANDARD	136
VSS-1-64L-7-50K	16592	122	PREMIUM	16048	118	PREMIUM	17136	126	PREMIUM	18632	137	PREMIUM	136
VSS-1-64L-1-30K	21730	106	STANDARD	20705	101	STANDARD	20910	102	STANDARD	21730	106	STANDARD	205
VSS-1-64L-1-40K	22550	110	STANDARD	22345	109	STANDARD	22755	111	STANDARD	23575	115	STANDARD	205
VSS-1-64L-1-50K	24190	118	PREMIUM	23780	116	PREMIUM	24190	118	PREMIUM	25215	123	PREMIUM	205

VSS 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
VSS-X-16L-35-30K	1980	110	1944	108	2034	113	2220	123	18
VSS-X-16L-35-40K	2142	119	2106	117	2196	122	2304	128	18
VSS-X-16L-35-50K	2304	128	2268	126	2470	137	2408	133	18

EPA

EPA	SGL
VSS-S-CM	0.59
VSS-1-CM	0.90

L70/L90 DATA

TEMP.	VSS-S				VSS-1	
	L70 (16L)	L90 (16L)	L70 (32L)	L90 (32L)	L70	L90
25°C	550,000	180,000	190,000	>60,000	180,000	>60,000

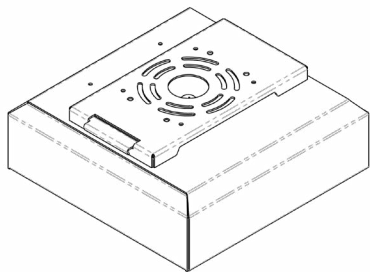
EPA	SGL 12'	SGL 24'	SGL 36'
VSS-S-PM	0.61	0.68	0.75
VSS-1-PM	0.94	1.01	1.08



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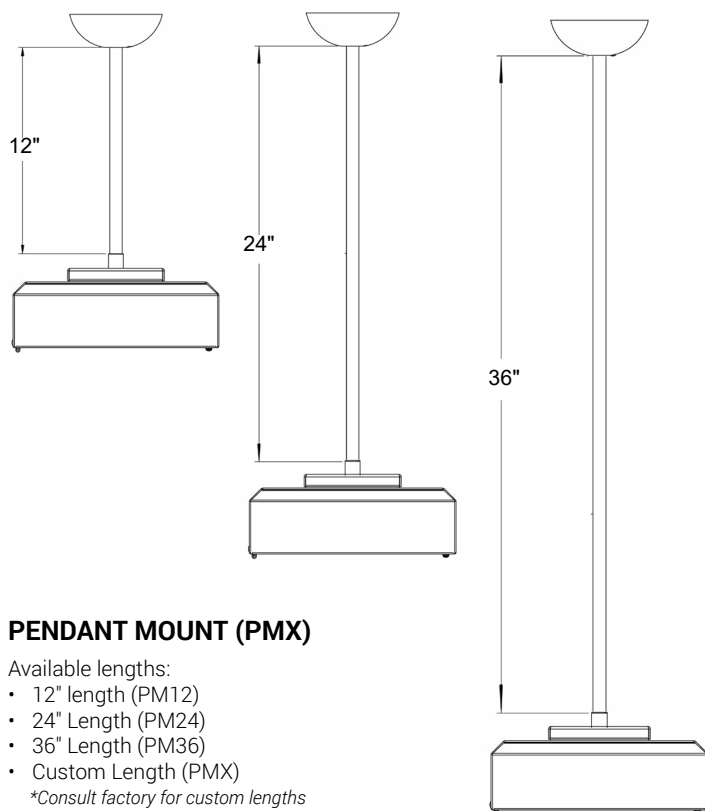
nslighting.com

MOUNTING OPTIONS



CEILING MOUNT (CM)

Rapid mounting system quick installation built into the Ceiling Mount (CM) design. Easy steps—Ceiling Bracket mounts to the Junction Box, where proper handling for wiring connections can be made before hooking and fastening fixture into Ceiling Bracket.



PENDANT MOUNT (PMX)

Available lengths:

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

**Consult factory for custom lengths*