

CEILING MOUNTED LIGHTING

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

- Die formed heavy duty 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

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
- · IP65 / IP67 Rated



























LED WATTAGE CHART

	32L	48L	64L
700 milliamps	71w	104w	136w
1050 milliamps	106w	156w	205w
Project Name:		Type:	

 Cat#
 Light Dist.
 # of LEDs
 Milliamps
 Kelvin
 Volts
 Mounting
 Color
 Options

 Value Series Square 1 (VSS-1)
 Type 2 (T2)
 32 (32L)
 530 (53)
 2700K, 70 CRI (27K7)
 120-277 (UNV)
 Ceiling Mount (CM)
 Bronze Textured (BRZ)
 Marine Grade Fi (MGF)

 Type 3 (T3)
 48 (48L)
 700 (77)
 2700K, 80 CRI (27K8)
 347-480 (HV)
 White Textured (WHT)
 FSP-211 with Motion (FSP-20)@9'-20'H.

Value Series Square 1	Type 2 (T2)	32 (32L)	530 (53) •	2700K, 70 CRI (27K7)	120-277 (UNV)	Ceiling Mount (CM)	Bronze Textured (BRZ)	Marine Grade Finish (MGF)
(VSS-1)	Type 3 (T3)	48 (48L)	700 (7)	2700K, 80 CRI (27K8) ²⁰	347-480 (HV)		White Textured (WHT)	FSP-211 with Motion Sensor (FSP-8) [®] 8'+ Below (FSP-20) [®] 9'-20'Heights
	Type 4 (T4) Type 5	64 (64L)	1050 (1)	3000K, 70 CRI (30K7) [♠]			Smooth White Gloss (SWT)	Emergency Battery Back-Up (EB)
	(T5)			3000K, 80 CRI (30K8) 29			Silver (SVR)	Dual Feed Load Control Bypass Relay
				3500K, 80 CRI (35K8)			Black Textured (BLK)	(LCBR) €
				4000K, 70 CRI (40K7)			Smooth Black Gloss	
Notes:				4000K, 80 CRI (40K8) ²			(SBK) Graphite Textured (GPH)	
1 32L Only		Consult Factory for 90	CRI Requests.	5000K, 70 CRI (50K7)			Grey Textured (GRY)	
3000K or lower	must be selected siation certification	d to meet Internationa on	al	5000K, 80 CRI (50K8)			Custom (CS)	

REV. 02.28.23

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- · 0-10V dimming driver
- Driver power factor at maximum load is ≥ .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: 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.

• EMERGENCY BATTERY BACK-UP (EB)

- 100-277 VAC± 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.
 - FSP-20 mounting heights 9' feet to 20'.
 - 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.

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.

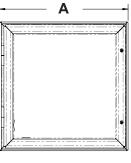
IES Types

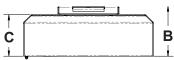






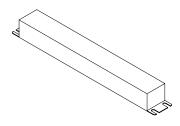




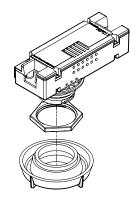


DIMENSION	VSS-1		
Α	17 in. SQ		
В	5.83 in.		
С	5.00 in.		
WEIGHT	23 lbs.		

EMERGENCY BATTERY BACK-UP (EB)



FSP-211



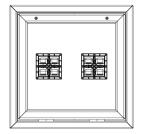
The information and specifications on this document are subject to change without any notification. All values are design, nominal, or typical or prorated values when measured under internal and external laboratory conditions.

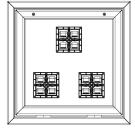


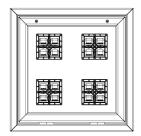
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OPTICAL CONFIGURATIONS







VSS-1 / 32L

VSS-1 / 48L

VSS-1 / 64L

	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-1-32L-7-30K7	7384	104	7242	102	7668	108	8179	115	71		
VSS-1-32L-7-40K7	8023	113	7952	112	8307	117	8946	126	71		
VSS-1-32L-7-50K7	8662	122	8520	120	8946	126	9585	135	71		
VSS-1-32L-1-30K7	10706	101	10600	100	10812	102	11125	105	106		
VSS-1-32L-1-40K7	11660	110	11554	109	11766	111	12190	115	106		
VSS-1-32L-1-50K7	12508	118	12402	117	12508	118	13144	124	106		
VSS-1-48L-7-30K7	10816	104	10712	103	11232	108	12272	118	104		
VSS-1-48L-7-40K7	11752	113	11648	112	12168	117	13312	128	104		
VSS-1-48L-7-50K7	12688	122	12480	120	13104	126	14248	137	104		
VSS-1-48L-1-30K7	16559	106	15756	101	15912	102	16536	106	156		
VSS-1-48L-1-40K7	17160	110	17004	109	17316	111	17940	115	156		
VSS-1-48L-1-50K7	18408	118	18252	117	18408	118	19188	123	156		
VSS-1-64L-7-30K7	14144	104	13736	101	14688	108	16048	118	136		
VSS-1-64L-7-40K7	15368	113	14824	109	15912	117	17408	128	136		
VSS-1-64L-7-50K7	16592	122	16048	118	17136	126	18632	137	136		
VSS-1-64L-1-30K7	21730	106	20705	101	20910	102	21730	106	205		
VSS-1-64L-1-40K7	22550	110	22345	109	22755	111	23575	115	205		
VSS-1-64L-1-50K7	24190	118	23780	116	24190	118	25215	123	205		

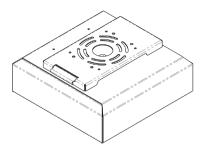
EMERGENCY OPERATION LUMENS									
PART NUMBER T2 T2 T3 T3 T4 T4 T5 T5 LM/W LUMENS LM/W LUMENS LM/W LUMENS LM/W W/								WATTS	
VSS-X-16L-35-30K7	1980	110	1944	108	2034	113	2220	123	18
VSS-X-16L-35-40K7	2142	119	2106	117	2196	122	2304	128	18
VSS-X-16L-35-50K7	2304	128	2268	126	2470	137	2408	133	18

EPA	SGL
VSS-1-CM	0.90

LUMEN MAINTENANCE DATA										
Ambient Temperature Drive Current L90 Hours* L70 Hours* 30,000 Hours* 50,000 Hours* 60,00 Hours* 100,00 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										

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.





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