



**LED WATTAGE CHART**

	32L	48L	64L
700 milliamps	71w	104w	136w
1050 milliamps	106w	156w	205w

**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:

# VSS-1 ORDERING GUIDE

Cat#	Light Dist.	No. of LEDs	Milliamps	Kelvin
Value Series Round Small (VSS-1)	Type 2 (T2)	32 (32L)	700 (7)	Amber 585-600nM (AMBER) ① ②
	Type 3 (T3)	48 (48L)	1050 (1)	2700K, 70 CRI (27K7) ③
	Type 4 (T4)	64 (64L)		2700K, 80 CRI (27K8) ① ③
	Type 5 (T5)			3000K, 70 CRI (30K7) ③
				3000K, 80 CRI (30K8) ① ③
				3500K, 80 CRI (35K8)
				4000K, 70 CRI (40K7)
				4000K, 80 CRI (40K8) ①
				5000K, 70 CRI (50K7)
				5000K, 80 CRI (50K8) ①

Volts	Mounting	Color	Control Options	Options
120-277 (UNV)	Direct Pole 6" Arm Single, D180 (DP6) ②	Bronze Textured (BRZ)	Nema 7-Pin Receptacle (PE7)	Bird Spikes (BS)
347-480 (HV)	Direct Pole 10" Arm D90, T90, T120, Quad (DP10) ②	White Textured (WHT)	Photocell + Receptacle (PCR)	Marine Grade Finish (MGF)
	Knuckle Mount (KM)	Smooth White Gloss (SWT)	Receptacle + Shorting Cap (PER)	Quick Mount Bracket (QMB)
	Wall Mount (WM) ②	Silver Metallic (SVR)	Button Photocell (PC) ④	Retrofit Mount Bracket (RQMB)
	Tennis Arm (TA)	Black Textured (BLK)	FSP-211 with Motion Sensor (UNV Voltage) (FSP-8) ④	Round Pole Adapter 3"- 4" Pole (RPA4)
		Smooth Black Gloss (SBK)	*8' and Below (FSP-20) ④	Round Pole Adapter 5"- 6" Pole (RPA5)
		Graphite Textured (GPH)	*9'-20" Heights (FSP-40) ④	Rotated Optic Left (ROL)
		Grey Textured (GRY)	*21'-40" Heights	Rotated Optic Right (ROR)
		Green Textured (GRN)		Automotive House Side Shield (AHS)
		Hunter Green Textured (HGN)		House Side Shield (HSS)
		Custom (CS)		Buy American (BAA) ⑤
				Trade American (TAA) ⑤
				Build America Buy American (BABA) ⑤
				Custom Controls Integration (CCI) ⑥

**Notes:**

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests
- ② For Round Pole Specify RPA4 or RPA5
- ③ Includes 6" Bolt on Arm
- ④ Universal Voltage 120-27
- ⑤ 3000K or lower must be selected to meet International
- ⑥ Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinX, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
- ⑦ Turtle Safe
- ⑧ Consult factory for all BAA/TAA/BABA requests



701 Kingshill Place, Carson, CA 90746  
 Call Us Today (310) 341-2037

nslighting.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  $-40^{\circ}\text{C}$  and Ambient Temp. Max ranges from  $50^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  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  $105^{\circ}\text{C}$
- 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.
- **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.

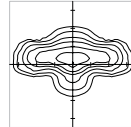
## CONTROLS

- **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-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)

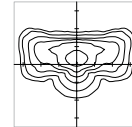
## OPTICS

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.

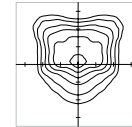
- IES Types



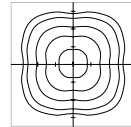
TYPE II (T2)



TYPE III (T3)



TYPE IV (T4)



TYPE V (T5)

## 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
- 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://nslighting.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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# PRODUCT SPECIFICATIONS

## LUMENS

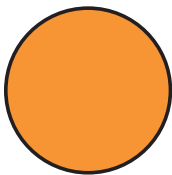
PART NUMBER	T2	LM/W	BUG	T3 HSS	LM/W	BUG	T3	LM/W	BUG	T4 AHS	LM/W	T4 HSS	LM/W	BUG	T4	LM/W	BUG	T5	LM/W	BUG	Watts
VSS-1-32L-7-30K7	7384	104	B1-U0-G1	4118	58	B0-U0-G1	7242	102	B2-U0-G2	5112	72	4047	57	B0-U0-G1	7668	108	B2-U0-G2	8179	115	B3-U0-G2	71
VSS-1-32L-7-40K7	8023	113	B2-U0-G2	4402	62	B0-U0-G1	7952	112	B2-U0-G2	5396	76	4331	61	B0-U0-G1	8307	117	B2-U0-G2	8946	126	B3-U0-G2	71
VSS-1-32L-7-50K7	8662	122	B2-U0-G2	4686	66	B0-U0-G1	8520	120	B2-U0-G2	5680	80	4615	65	B0-U0-G2	8946	126	B2-U0-G2	9585	135	B3-U0-G2	71
VSS-1-32L-1-30K7	10706	101	B2-U0-G2	6148	58	B0-U0-G2	10600	100	B2-U0-G2	7632	72	6042	57	B0-U0-G2	10812	102	B2-U0-G2	11125	105	B4-U0-G2	106
VSS-1-32L-1-40K7	11660	110	B2-U0-G2	6572	62	B0-U0-G2	11554	109	B2-U0-G2	8056	76	6466	61	B0-U0-G2	11766	111	B2-U0-G2	12190	115	B4-U0-G2	106
VSS-1-32L-1-50K7	12508	118	B2-U0-G2	6996	66	B0-U0-G2	12402	117	B2-U0-G2	8480	80	6890	65	B0-U0-G2	12508	118	B2-U0-G2	13144	124	B4-U0-G2	106
VSS-1-48L-7-30K7	10816	104	B2-U0-G2	6032	58	B0-U0-G2	10712	103	B2-U0-G2	7488	72	5928	57	B0-U0-G2	11232	108	B2-U0-G2	12272	118	B4-U0-G2	104
VSS-1-48L-7-40K7	11752	113	B2-U0-G2	6448	62	B0-U0-G2	11648	112	B2-U0-G2	7904	76	6344	61	B0-U0-G2	12168	117	B2-U0-G2	13312	128	B4-U0-G2	104
VSS-1-48L-7-50K7	12688	122	B2-U0-G2	6864	66	B0-U0-G2	12480	120	B2-U0-G2	8320	80	6760	65	B0-U0-G2	13104	126	B3-U0-G3	14248	137	B4-U0-G2	104
VSS-1-48L-1-30K7	16559	106	B3-U0-G3	9048	58	B0-U0-G2	15756	101	B3-U0-G3	11232	72	8892	57	B1-U0-G2	15912	102	B3-U0-G3	16536	106	B4-U0-G2	156
VSS-1-48L-1-40K7	17160	110	B3-U0-G3	9672	62	B1-U0-G2	17004	109	B3-U0-G3	11856	76	9516	61	B1-U0-G2	17316	111	B3-U0-G3	17940	115	B4-U0-G2	156
VSS-1-48L-1-50K7	18408	118	B3-U0-G3	10296	66	B1-U0-G2	18252	117	B3-U0-G3	12480	80	10140	65	B1-U0-G2	18408	118	B3-U0-G3	19188	123	B4-U0-G2	156
VSS-1-64L-7-30K7	14144	104	B2-U0-G2	7888	58	B0-U0-G2	13736	101	B3-U0-G3	9792	72	7752	57	B0-U0-G2	14688	108	B3-U0-G3	16048	118	B4-U0-G2	136
VSS-1-64L-7-40K7	15368	113	B3-U0-G3	8432	62	B0-U0-G2	14824	109	B3-U0-G3	10336	76	8296	61	B1-U0-G2	15912	117	B3-U0-G3	17408	128	B4-U0-G2	136
VSS-1-64L-7-50K7	16592	122	B3-U0-G3	8976	66	B0-U0-G2	16048	118	B3-U0-G3	10880	80	8840	65	B1-U0-G2	17136	126	B3-U0-G3	18632	137	B4-U0-G2	136
VSS-1-64L-1-30K7	21730	106	B3-U0-G3	11890	58	B1-U0-G2	20705	101	B3-U0-G3	14760	72	11685	57	B1-U0-G2	20910	102	B3-U0-G3	21730	106	B5-U0-G3	205
VSS-1-64L-1-40K7	22550	110	B3-U0-G3	12710	62	B1-U0-G2	22345	109	B3-U0-G3	15580	76	12505	61	B1-U0-G3	22755	111	B3-U0-G3	23575	115	B5-U0-G3	205
VSS-1-64L-1-50K7	24190	118	B3-U0-G3	13530	66	B1-U0-G2	23780	116	B3-U0-G3	16400	80	13325	65	B1-U0-G3	24190	118	B3-U0-G4	25215	123	B5-U0-G3	205

### Lumen Maintenance Data

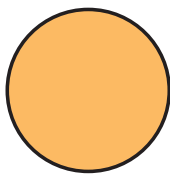
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%

\*Reported extrapolations per IESNA TM-21      \*\*Projected extrapolations per IESNA TM-21

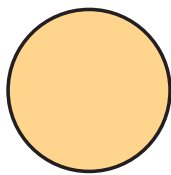
## LED KELVIN RANGE



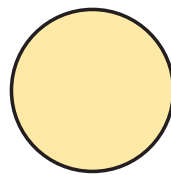
AMBER  
585-600 nm



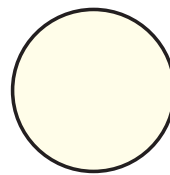
2700K 70 CRI



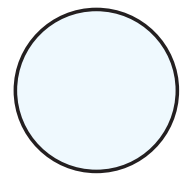
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

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

# PRODUCT SPECIFICATIONS

DIMENSION	VSS-1
A	17 in. SQ
B	5 in.
Weight	20 lbs

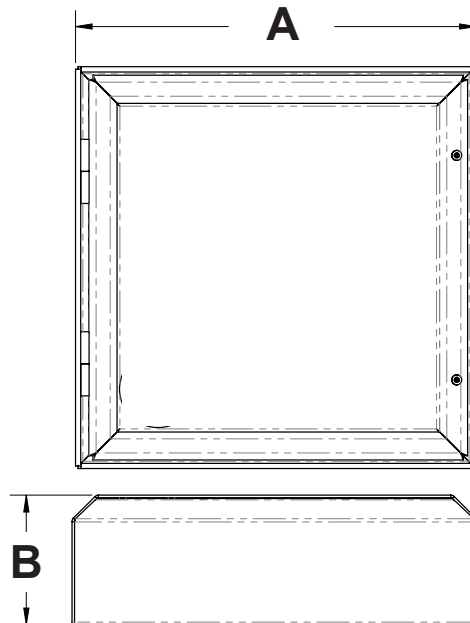
## EPA

EPA	SGL	D90	D180	T90	T120	QD
VSS-1	0.68	1.37	1.37	2.05	1.38	2.74

## DPX ARM LENGTH

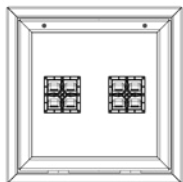
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
VSS-1	6"	10"	6"	10"	10"	10"

6" - DPX6 | 10" - DPX10

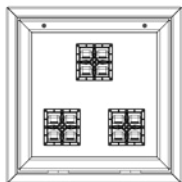


## OPTICAL CONFIGURATIONS

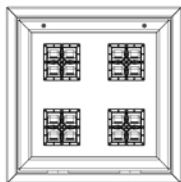
Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



VSS-1 / 32L



VSS-1 / 48L

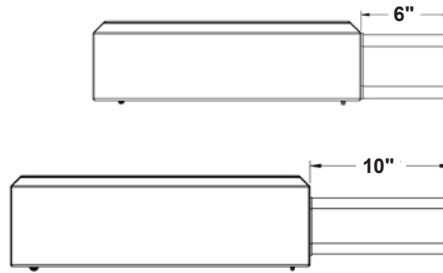


VSS-1 / 64L

# PRODUCT SPECIFICATIONS

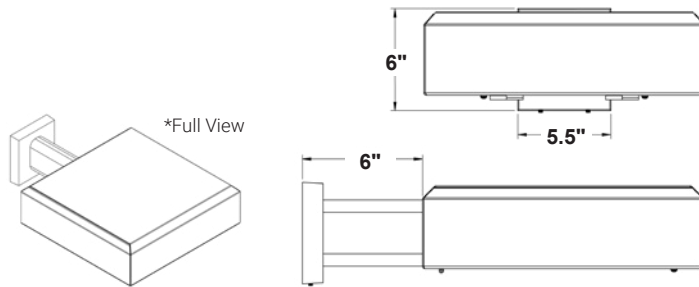
## DIRECT POLE (DP)

Standard mounting arm is extruded aluminum in lengths of 6", And 10"  
\*Arm lengths may vary depending on configuration



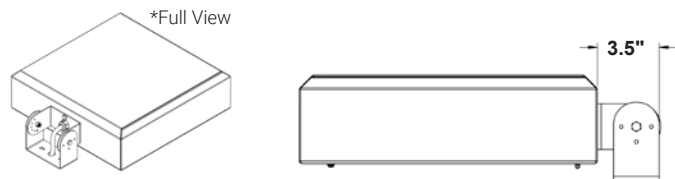
## WALL MOUNT (WM)

Cast Aluminum Plate for direct wall mount.  
6" extruded aluminum arm mounts directly to a cast wall mount box.



## TRUNNION MOUNT (TM)

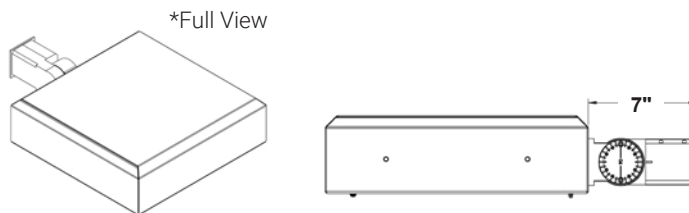
Steel bolt-on-mounting for adjustable installation with a maximum uplift of 90°.



## KNUCKLE MOUNT (KM)

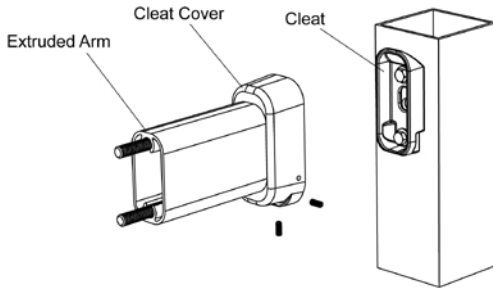
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uptilt of 110 degrees
- Adjustable in 5 degree increments

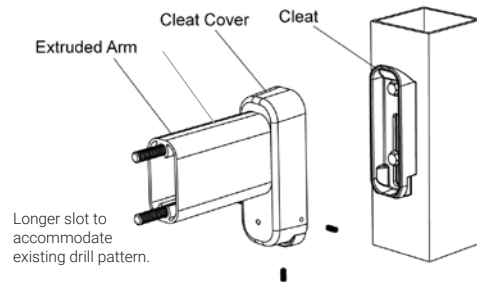
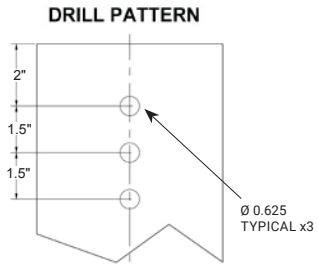


# PRODUCT SPECIFICATIONS

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.

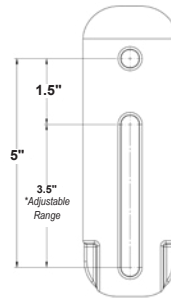


**QUICK MOUNT BRACKET (QMB)  
DIRECT POLE (DP6/DP10)**

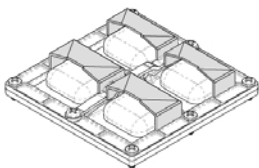


**RETROFIT QUICK MOUNT BRACKET (RQMB)**

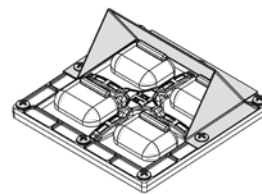
**RQMB DRILL PATTERN**



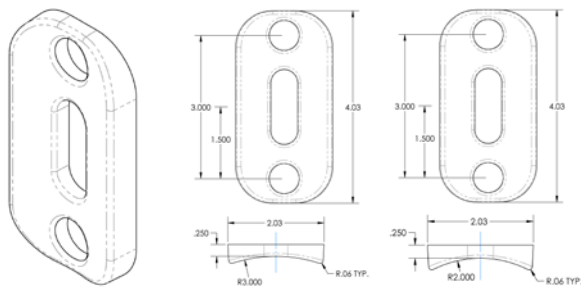
## HOUSE SIDE SHIELD



## AUTOMOTIVE HOUSE SIDE SHIELD



## RPA4 / RPA5



## FSP-211

