

### TENNIS & PICKLEBALL / SPORTS VENUES / PARKS



#### **UNMATCHED PERFORMANCE**

VUE-34X @ 648 Watts achieves United States Tennis Association "Level II" 75-Foot Candle Average with less than 1.75 Maximum to Minimum Uniformity in the extended Primary Playing Area with eight fixtures spaced thirty feet apart. Designed specifically for court lighting, the VUE-34X can replace 1000 watt metal halide traditional court fixtures at 45% less energy and provide 3-4 times the existing light levels evenly across the court using the same existing fixture arms and poles. VUE-34X has a 30% or greater photometric light level advantage compared to competitors at the same wattage across the court.

### **GLARE & LIGHT TRESPASS SENSITIVITY**

The VUE-34X fixture creates one of the most environmentally sensitive courts in the nation. VUE-34X recesses & conceals its light source 3 inches above the bottom plane of the fixture eliminating neighborhood & dark sky glare.

Player Disability Glare is significantly reduced as well, enabling players to compete at their highest level. VUE-34X is endorsed by Dr. David Crawford, Founder of the International Dark Sky Association.

#### TRACK RECORD

The VUE fixture is one of Americas most prolific court fixture, having been installed in over 300 of the most prestigious tennis/pickleball multi-courts around the nation.

#### RELIABILITY

VUE-34X is Made in America. The VUE-34X is Die Cast, 3G Vibration Rated, IP66 Rated against Dust and water, L70 Depreciation Rated at more than 120,000 hours, IK08 impact resistant, Low Iron Safety Glass Lens, 20kA Surge Protection Standard, and Powder Coated.

VUE-34X does not use Plastic Acrylic or Polycarbonate Lenses, which will yellow and cause rapid LED depreciation. Driver compartment & LEDs separate so heat from one does not depreciate the life and output of the other.

#### SERVICE

Cost Competitive, Supply Chain Friendly, and short Shipping Lead Times in Days & Weeks.

#### **PRODUCT & SPECIFICATION FEATURES**

- Ideal and Traditionally Designed for Tennis Clubs, Pickleball Clubs, Universities, High Schools, Residential Community Centers, Public Parks, and Private Homes
- Replaces VUE-3 & VUE-4 with 30% increased performance & better uniformity
- VUE-34X (up to 87,000 Lumens, Weight 58 lbs, EPA: 1.04) uses the patented Star Power™ Optic System for Reduced Glare and Improved Uniformity
- Optimized Sports Optic for Tennis and Pickleball
- 192L and 224L LED Configurations
- 3000K, 4000K or 5000K CCT Multichip High Power 70 CRI LEDs standard
- IP66 Rated Against Dust & Water Ingress
- IK08 Rated for Impact Protection
- 20kA Surge Protection Standard (120V-480V)
- $\bullet$  Highest quality 0-10V Programmable, Dimming LED Drivers
- Driver Compartment physically separated from LED Light Source
- Easy to Retrofit VUE-34X can slip over any existing tennis arm or bolt to any existing pole with a 1.5G to 3G Vibration Rated Mounting
- Pole, Straight Rectangular Tennis Arm, radius Davit Arm, Bolt-on Architectural Sweep Arm, Knuckle Mount, and Trunnion Mount are available with the same finish
- $\hbox{\bf \cdot} \ {\sf Ten \ Standard \ Finishes, \ Marine \ Grade \ Finish, \ and \ Custom \ Finish \ Available}$
- Available with NLS Step Dimming and Motion Sensing Controls for additional energy savings, neighborhood compliance, party atmosphere, or to maintain initial light level throughout the life of the product (Details Below)
- Die-Cast Aluminum Housing
- Environmentally Friendly Product Which Reduces Energy Consumption
- L70 Depreciation Factor > 120,000 hours (depreciates up to four times slower than import fixtures
- Patented VUE-34X Concealed optical system is hidden from sight from neighbors, wildlife, & the dark sky and is the least glary fixture for players to compete under
- Buy America(n) VUE-34X is completely designed, fabricated, powder coated, and assembled in the USA
- · Contact Factory for custom BKGN (Black/Green) Architectural Finish
- Experienced in-house Tennis and Pickleball design team will layouts and photometric design at no charge based on USTA and National Pickleball Association Published Lighting Criteria

Type:

<b>VUE-34X ORDERING GUIDE</b>
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Cat#	Light Dist.	# of LEDs	Watts	Kelvin
VUE-34X ( <b>VUE-34X)</b>	Type SP <b>(SP)</b>	192 <b>(192L)</b>	414W <b>(41)</b>	3000K, 70 CRI <b>(30K7) 4</b> , 6
			503W <b>(50)</b>	4000K, 70 CRI <b>(40K7)</b> 4
			577W <b>(57)</b>	5000K, 70 CRI <b>(50K7) </b> 4
			621W <b>(62)</b>	
			648W <b>(64)</b>	
		004	706W	
		224 <b>(224L)</b>	( <b>70)</b>	

Volts	Mounting	Color	Controls Options	Options
120-277 <b>(UNV)</b>	Tennis Arm Mount ( <b>TA</b> )	Bronze Textured (BRZ)	Photocell + Receptacle (PCR)	Bird Spikes <b>(BS)</b>
347-480 <b>(HV)</b>	Davit Arm Mount <b>(DAM)</b>	White Textured (WHT)	Nema 7-Pin Receptacle <b>(PE7)</b>	Marine Grade Finish (MGF)
	Knuckle Mount <b>(KM)</b>	Smooth White Gloss (SWT)	Receptacle + Shorting Cap (PER)	Round Pole Adapter 3"- 4" Pole (RPA4) 3
	Trunnion Mount <b>(TM)</b> <sup>1</sup>	Silver Metallic (SVR)	FSP-211 with Motion Sensor/Photocell	Round Pole Adapter 5"- 6" Pole (RPA5) 3
	Architectural Sweep Arm (ASA)	Black Textured (BLK)	9'-20' Heights <b>(FSP211-20) <sup>9,7</sup></b>	Front Side Shield (FSS)
	Direct Pole 6" Arm Single, D180	Smooth Black Gloss (SBK)	21'-40' Heights (FSP211-40) 9,7	House Side Shield (HSS)
	(DPS6) <sup>2</sup> Direct Pole 11" Arm D90, T90, T120, Quad (DPS11) <sup>2</sup>	Graphite Textured (GPH) Grey Textured	FSP-221 with Motion Sensor/Photocell 9'-20' Heights (FSP221-20) <sup>8</sup>	
	Wall Mount ( <b>WM)</b>	(GRY) Green Textured	21'-40' Heights <b>(FSP221-40)</b> 8	
	. ,	<b>(GRN)</b> Hunter Green Textured <b>(HGN)</b>	FSP Remote (FSIR) <sup>10</sup>	
		Custom ( <b>CS</b> )		

### NOTES:

- 1. Standard finish is stainless steel. Can be painted to match fixture
- 2. For Round Pole Specify RPA4 or RPA5
- 3. Direct Pole Mount, Architectural Sweep Arm Mount only
- ${\bf 4. \ \ Consult \ Factory \ for \ Other \ CCT \ options. \ Consult \ Factory \ for \ Control \ Options}$
- 5. One remote is required per site
- 6. 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.
- 7. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
- 8. FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
- 9. Universal Voltage 120-277
- 10. Projects with sensors require Qty. 1 FSIR per project



#### **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 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 separate IP66 compartment
- CRI 70
- · Color temperature: 3000K, 4000K, and 5000K available
- · Surge Protection: 20kA supplied as standard.

#### CONSTRUCTION

- · Die Cast Aluminum
- External cooling fins
- · Corrosion resistant external hardware
- · One-piece silicone gasket ensures IP66 seal for electronics compartment

Recessed Star Power™ Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.

#### **CONTROL OPTIONS**

- 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.
- · Party Setting Available (10% output) Consult Factory
- · 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. Programmable remote must be purchased separately.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- · Controls Agnostics: Please contact factory for your preferred controls option.
- 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
- · RECEPTACLE + SHORTING CAP (PER) 7-Pin Receptacle and Shorting Cap.

#### OPTIONS

- BIRD SPIKES (BS) Offer an effective and humane deterrent for larger bird species and provide a cost-effective long-term solution to nuisance bird infestations and to protect your property.
- MARINE GRADE FINISH (MGF) A multi-step process creating a 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 Polvester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- 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.
- · House Side Shield (HSS) is designed for full property line cutoff.
- · Front Side Shield (FSS) is designed to reduce glare.

#### **FINISH**

- · 3-5 mil electrostatic powder coat.
- · NLS Lighting standard high-quality finishes prevent corrosion, and protects against extreme environmental conditions.

#### WARRANTY

- · Five-year limited warranty for drivers and LEDs.
- · Consult Factory for 7 or 10 year warranty.

#### LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements.
- Compliant with UL 8750 LED driver design and test safety standards.
- CSA C22.2 No. 250.0
- IP66 Rated Fixture
- · 1.5G Vibration Rated Knuckle Mount
- · 1.5G Vibration Rated Direct Pole Mount
- · 3G Vibration Rated Trunnion Mount
- IK08 Rated
- · IDA Dark Sky Approved
- · DLC Approved
- · USTA Approved Pending

























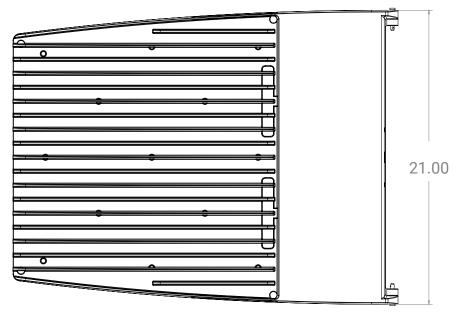


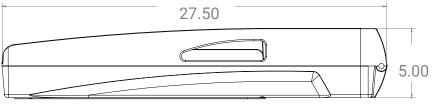




The information and specifications on this document are subject to change without any notification. All values are design, nominal, or typical or prorated values when measured under internal and external laboratory conditions.







Weight: 58 lbs



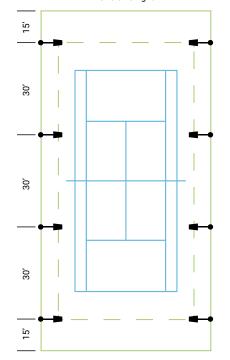
		Lumens		
Part Number	Lumens	LM/W	BUG	Watts
VUE-34X-SP-192L-41-30K7	53,918	131	B4-U0-G4	414
VUE-34X-SP-192L-41-40K7	58,371	142	B4-U0-G4	414
VUE-34X-SP-192L-41-50K7	58,371	142	B4-U0-G4	414
VUE-34X-SP-192L-50-30K7	57,495	114	B4-U0-G4	503
VUE-34X-SP-192L-50-40K7	62,121	124	B4-U0-G4	503
VUE-34X-SP-192L-50-50K7	62,121	124	B4-U0-G4	503
VUE-34X-SP-192L-57-30K7	65,951	114	B4-U0-G4	577
VUE-34X-SP-192L-57-40K7	71,260	124	B4-U0-G5	577
VUE-34X-SP-192L-57-50K7	71,260	124	B4-U0-G5	577
VUE-34X-SP-192L-62-30K7	71,023	114	B4-U0-G5	621
VUE-34X-SP-192L-62-40K7	76,738	124	B4-U0-G5	621
VUE-34X-SP-192L-62-50K7	76,738	124	B4-U0-G5	621
VUE-34X-SP-192L-64-30K7	73,550	114	B4-U0-G5	648
VUE-34X-SP-192L-64-40K7	79,041	122	B5-U0-G5	648
VUE-34X-SP-192L-64-50K7	79,041	122	B5-U0-G5	648
VUE-34X-SP-224L-70-30K7	80,835	114	B4-U0-G5	706
VUE-34X-SP-224L-70-40K7	87,361	124	B5-U0-G5	706
VUE-34X-SP-224L-70-50K7	87,361	124	B5-U0-G5	706

			Lumen Mainte	enance Data			
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,00 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	43,000	117,000	93.9%	87.8%	84.9%	74.2%
*[	Reported extrapol	ations per IESN	A TM-21	**Projecte	d extrapolations	per IESNA TM-2	21

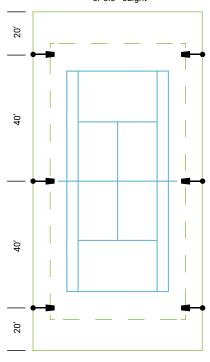
## **RECOMMENDED POLE / FIXTURE LAYOUTS**

#### **TENNIS COURT LAYOUTS**

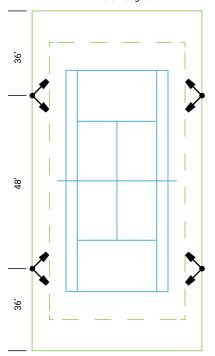
Recommended New Court Spacing 8Pole - 8Light



Recommended New Court Spacing 6Pole - 6Light



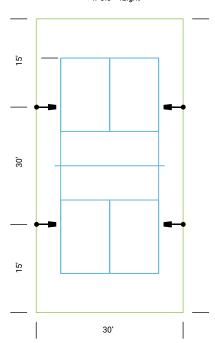
Recommended New Court Spacing 4Pole - 8Light



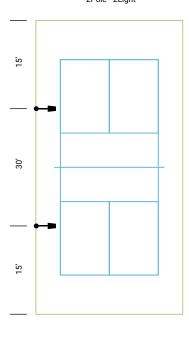
USTA Level (2) 600W USTA Level (3) 450W

## **PICKLEBALL COURT LAYOUTS**

Recommended New Court Spacing 4Pole - 4Light



Recommended New Court Spacing 2Pole - 2Light



## **DP VUE-34X EPA DATA**

Direct Pole Mount	=							
SIDE	S	GL	D90	D	180	T90	T120	QD
VUE-34X	1	.04	1.89	2	.08	2.93	2.22	2.93
	6" DPS	11" DPS	11" DPS	6" DPS	11" DPS	11" DPS	11" DPS	11" DPS
Total EPA (ft^2)	1.22	1.37	2.23	2.44	2.75	3.60	2.80	2.93
Direct Pole Mount	=							
SIDE	S	GL	D90	D'	180	T90	T120	QD
VUE-34X-FSS	1	.28	2.67	2.	.56	3.95	3.03	3.95
	6" DPS	11" DPS	11" DPS	6" DPS	11" DPS	11" DPS	11" DPS	11" DPS
Total EPA (ft^2)	1.46	1.62	3.00	2.93	3.23	4.62	3.61	3.95
Direct Pole Mount	=							
SIDE	S	GL	D90	D.	180	T90	T120	QD
VUE-34X-HSS	1	.22	3.57	2	.45	4.79	4.22	4.79
	6" DPS	11" DPS	11" DPS	6" DPS	11" DPS	11" DPS	11" DPS	11" DPS
Total EPA (ft^2)	1.41	1.56	3.90	2.81	3.12	5.46	4.80	4.79

## TA VUE-34X EPA DATA

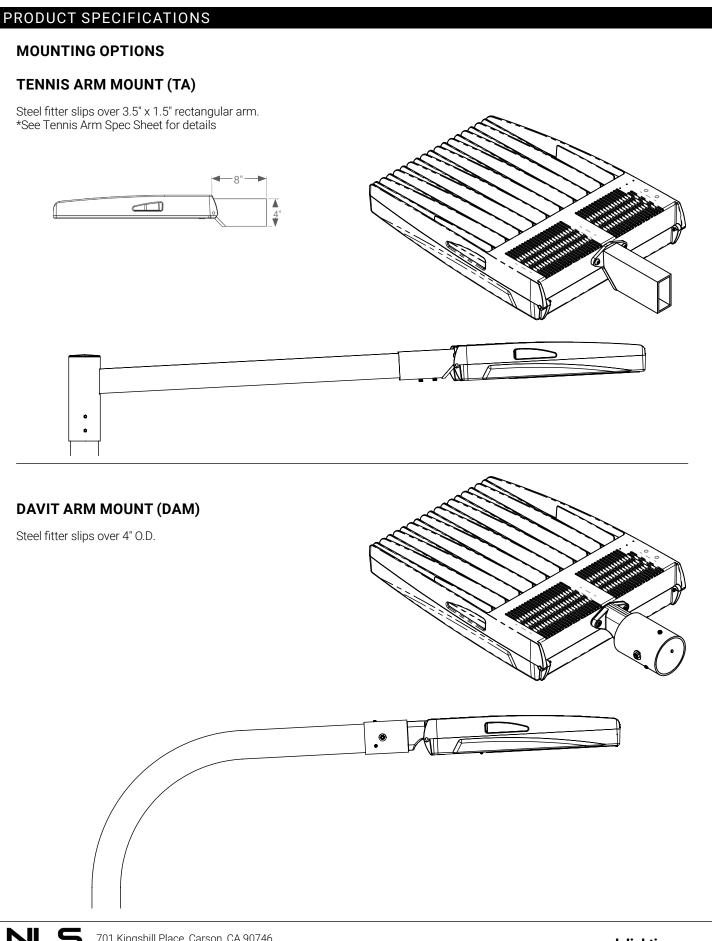
Tennis Arm (4ft)										Ý
SIDE	SGL	D90	D180	T90	T120	T135	Q90	Q120	U-ARM	H-ARM
VUE-34X	1.04	1.89	2.08	2.93	2.22	2.22	2.93	2.22	1.71	2.08
TA	1.40	1.40	2.80	2.80	1.40	1.07	2.80	1.40	2.80	2.80
Total EPA (ft^2)	2.44	3.29	4.88	5.73	3.62	3.29	5.73	3.62	4.51	4.88
Tennis Arm (4ft)									<	Ý
SIDE	SGL	D90	D180	T90	T120	T135	Q90	Q120	U-ARM	H-ARM
VUE-34X-FSS	1.28	2.67	2.56	3.95	3.03	3.03	3.95	3.03	2.78	2.56
TA	1.40	1.40	2.80	2.80	1.40	1.07	2.80	1.40	2.80	2.80
Total EPA (ft^2)	2.68	4.07	5.36	6.75	4.43	4.10	6.75	4.43	5.58	5.36
Tennis Arm (4ft)									< <u></u>	Ý
SIDE	SGL	D90	D180	T90	T120	T135	Q90	Q120	U-ARM	H-ARM
VUE-34X-HSS	1.22	3.57	2.45	4.79	4.22	4.22	4.79	4.22	4.69	2.45
TA	1.40	1.40	2.80	2.80	1.40	1.07	2.80	1.40	2.80	2.80
Total EPA (ft^2)	2.62	4.97	5.25	7.59	5.62	5.29	7.59	5.62	7.49	5.25

## **DAVIT VUE-34X EPA DATA**

	IADAIA					
Davit Arm (3ft)						
SIDE	SGL	D70	D90	D180	Q70	Q90
VUE-34X	1.04	.86	1.89	2.08	1.72	2.93
DA	.77	1.61	1.58	2.45	2.51	2.33
Total EPA (ft^2)	1.81	2.47	3.47	4.53	4.23	5.26
Davit Arm (3ft)						
SIDE	SGL	D70	D90	D180	Q70	Q90
VUE-34X-FSS	1.28	1.10	2.67	2.56	2.20	4.79
DA	.77	1.61	1.58	2.45	2.51	2.33
Total EPA (ft^2)	2.05	2.71	4.25	5.01	4.71	6.28
	1	1			4 6	
Davit Arm (3ft)						
SIDE	SGL	D70	D90	D180	Q70	Q90
VUE-34X-HSS	1.22	1.05	3.57	2.45	2.09	4.79
DA	.77	1.61	1.58	2.45	2.51	2.33
Total EPA (ft^2)	1.99	2.65	5.15	4.90	4.60	7.12

### **ASA VUE-34X EPA DATA**

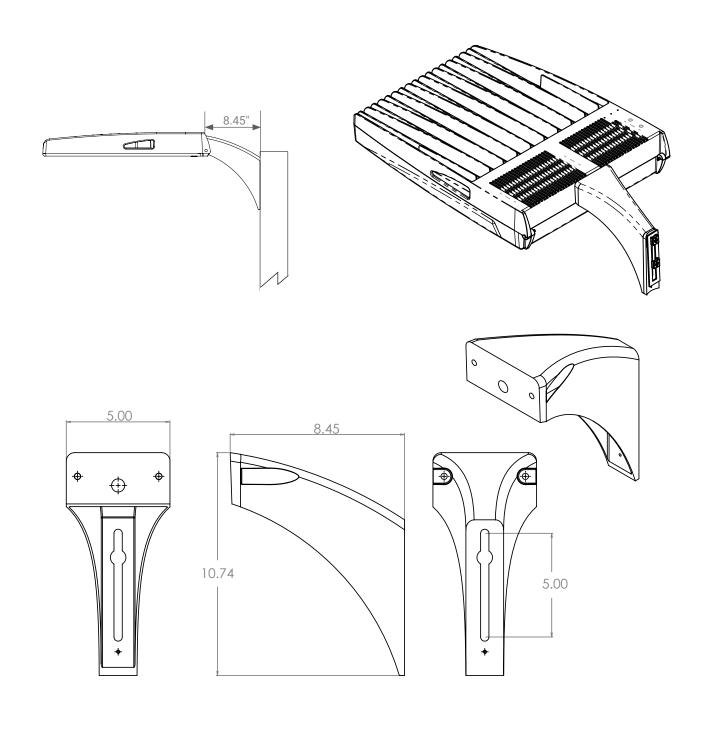
Architectural Sweep Arm		
SIDE	SGL	D180
VUE-34X	1.22	2.45
ASA	.27	.53
Total EPA (ft^2)	1.49	2.98
Architectural Sweep Arm		
SIDE	SGL	D180
VUE-34X-FSS	1.28	2.56
ASA	.27	.53
Total EPA (ft^2)	1.55	3.09
	1.55	3.09
Architectural Sweep Arm	1.33	3.09
	SGL	D180
Architectural Sweep Arm		
Architectural Sweep Arm		



## **MOUNTING OPTIONS**

## **ARCHITECTURAL SWEEP ARM (ASA)**

Cast Sweep Arm includes (as standard) Internal Quick Mount Bracket.

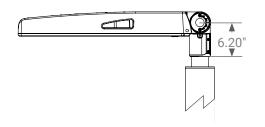


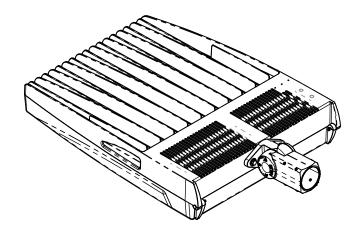
### **MOUNTING OPTIONS**

## **KNUCKLE MOUNT (KM)**

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

- Max Uplift of 70 degrees
- Adjustable in 6 degree increments



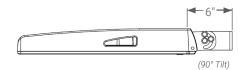


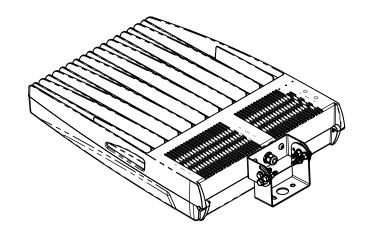


## **TRUNNION MOUNT (TM)**

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 70 degrees.

\*Unpainted stainless steel is standard





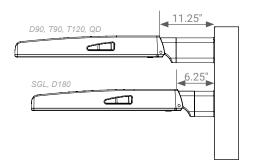


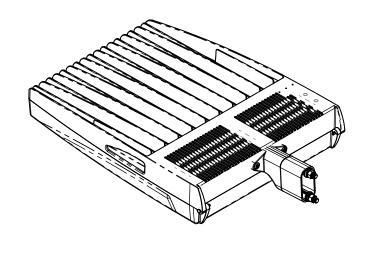
### **MOUNTING OPTIONS**

## **DIRECT POLE (DP)**

Standard mounting arm is extruded aluminum in lengths of 6.25" and 11.25".

\*Arm lengths may vary depending on configuration

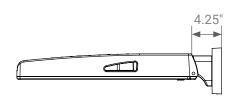


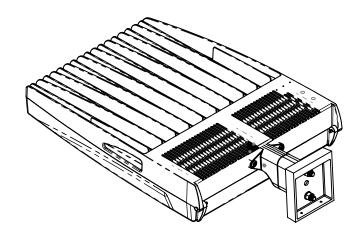




## WALL MOUNT (WM)

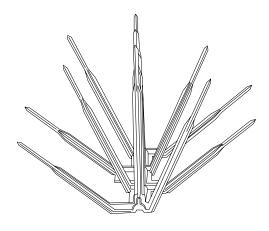
Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.





### **BIRD SPIKES (BS)**

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



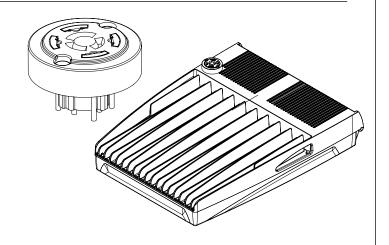
### **MARINE GRADE FINISH (MGF)**

The (MGF) is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mil of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



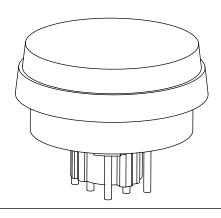
## **NEMA 7-PIN RECEPTACLE (PE7)**

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.



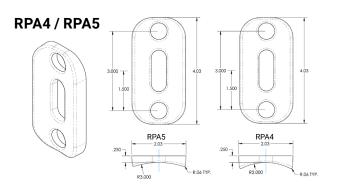
## **RECEPTACLE + SHORTING CAP (PER)**

7-Pin Receptacle and Shorting Cap.



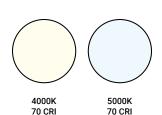
### **ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)**

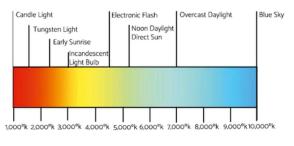
When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.



#### **LED KELVIN**

4000K or 5000K, is the ideal color temperature range for Tennis / Pickleball applications. The brightness is several times higher than traditional HID, also you can save up to 50-80% energy consumption and provide farther irradiation distance with more focused lighting with less fixtures.





### **SENSOR SPECIFICATION**





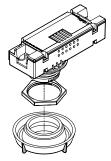
#### CONTROL OPTIONS

- 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.

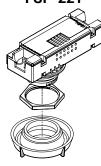
#### **FSP-211**



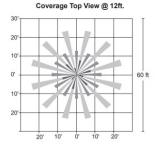
### **FSP-221 WITH MOTION SENSOR (FSP-HV-XX)**

- 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.

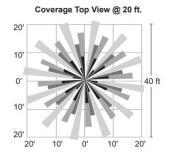
FSP-221



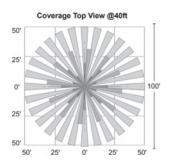
#### FSP-8



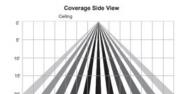
FSP-20

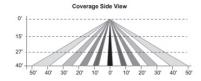


FSP-40











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