

## SPN SERIES SPORTS LIGHT NATATORIUM

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Aluminum alloy housing with IK08 impact resistance. Bracket is constructed of ZAM (zinc, aluminum, magnesium alloy) material with a powder coat finish. Fixture is C4 rated for corrosion resistance. 180° rotatable module allows precise adjustment of upward and downward light distribution.

### OPTICS

Multiple precision engineered distributions (symmetrical 33°, 43° and asymmetrical intense 35°), optics are designed to shape the distribution, maximizing efficiency and maintaining high levels for various sports field applications.

Light engine available in 5000K (80+ CRI) configurations with high efficacy up to 155 lm/W.

Scalable lumen package from 22,780 to 88,320 lumens.

### ELECTRICAL

-30°C minimum to 50°C (-22°F to 122°F) maximum operating temperature.

Class I constant current drivers with expected life of 262,000 hours (L70).

>.9 power factor, <20% total harmonic distortion, built-in 6kV surge protection.

Driver operates at 120-277V input, 0-10V dimmable.

Optional 277-480V input.

### SENSOR / CONTROLLER

Optional: Synapse Wireless ProFX Lighting Control System

### MOUNTING

Standard 3FT chain mount for suspended installation.

Optional 3/4" NPT adapter for pendant mount.

Optional yoke mount.

### STANDARD FINISH

White corrosion resistant powder coat finish, C4-rated corrosion resistance provides added durability in industrial and coastal environments with moderate salt exposure.

### CERTIFICATION

IK08 Rating.

IP65 Wet Location Listed.

Meets Buy America Act requirements.

All luminaires are built to UL1598 standards and bear appropriate cULus labels.

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



SPN-300



SPN-600

### SHIPPING DATA

| Product | Measurement       | Weight |
|---------|-------------------|--------|
| SPN-300 | 22"L x 19"W x 9"H | 29 lb  |
| SPN-600 | 26"L x 21"W x 7"H | 42 lb  |



## SPN SERIES SPORTS LIGHT NATATORIUM

| ORDER INFORMATION      |                     |                                                                                            |     | EXAMPLE: SPN 600 50 33 YM WH HD |          |        |       |
|------------------------|---------------------|--------------------------------------------------------------------------------------------|-----|---------------------------------|----------|--------|-------|
| Fixture                | Series              | Power & LM                                                                                 | CCT | Distribution                    | Mounting | Finish | Input |
|                        | SPN                 |                                                                                            | 50  |                                 |          | WH     |       |
| Accessories<br>Options |                     |                                                                                            |     |                                 |          |        |       |
| A                      | SERIES              |                                                                                            |     |                                 |          |        |       |
|                        | SPN                 | Sports Light Natatorium                                                                    |     |                                 |          |        |       |
| B                      | POWER & LM          |                                                                                            |     |                                 |          |        |       |
|                        | CODE                | POWER                                                                                      |     | LUMENS                          |          |        |       |
|                        | 300                 | Field Selectable 150W / 225W / 300W                                                        |     | 22,780lm ~ 46,070lm             |          |        |       |
|                        | 600                 | Field Selectable 300W / 450W / 600W                                                        |     | 46,080lm ~ 88,320lm             |          |        |       |
| C                      | CCT                 |                                                                                            |     |                                 |          |        |       |
|                        | 50                  | 5000K                                                                                      |     |                                 |          |        |       |
| D                      | DISTRIBUTION        |                                                                                            |     |                                 |          |        |       |
|                        | 33                  | 33° Symmetrical                                                                            |     |                                 |          |        |       |
|                        | 43                  | 43° Symmetrical                                                                            |     |                                 |          |        |       |
|                        | AI35                | 35° Asymmetrical Intense                                                                   |     |                                 |          |        |       |
| E                      | MOUNTING            |                                                                                            |     |                                 |          |        |       |
|                        | CM                  | Chain Mount (3FT - Standard)                                                               |     |                                 |          |        |       |
|                        | PMK                 | Pendant Mount Kit - 3/4" NPT Adapter (Rod Provided by Others)                              |     |                                 |          |        |       |
|                        | YM                  | Yoke Mount                                                                                 |     |                                 |          |        |       |
| F                      | FINISH              |                                                                                            |     |                                 |          |        |       |
|                        | WH                  | White Finish                                                                               |     |                                 |          |        |       |
| G                      | INPUT               |                                                                                            |     |                                 |          |        |       |
|                        | UD                  | 120-277V input, 0-10V Dimming                                                              |     |                                 |          |        |       |
|                        | HD                  | 277-480V input, 0-10V Dimming                                                              |     |                                 |          |        |       |
| H                      | ACCESSORIES/OPTIONS |                                                                                            |     |                                 |          |        |       |
|                        | BAA                 | Assembled in America, compliant with BAA (COTS)                                            |     |                                 |          |        |       |
|                        | SHIELD-SPN-____     | Glare Shield for SPN - Symmetrical 33° / 43° Distribution <b>300W (1:1), 600W (2:1)</b>    |     |                                 |          |        |       |
|                        | SHIELD-SPN-AI-____  | Glare Shield for SPN - Asymmetrical Intense 35° Distribution <b>300W (1:1), 600W (2:1)</b> |     |                                 |          |        |       |
|                        | SURGE-LSP4-U / -H   | 10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input              |     |                                 |          |        |       |
|                        | CONTROL-LVFA*       | AVI-ON Bluetooth Mesh Control System                                                       |     |                                 |          |        |       |
|                        | SYNAPSE             | Synapse Wireless ProFX Lighting Control System (Consult factory)                           |     |                                 |          |        |       |

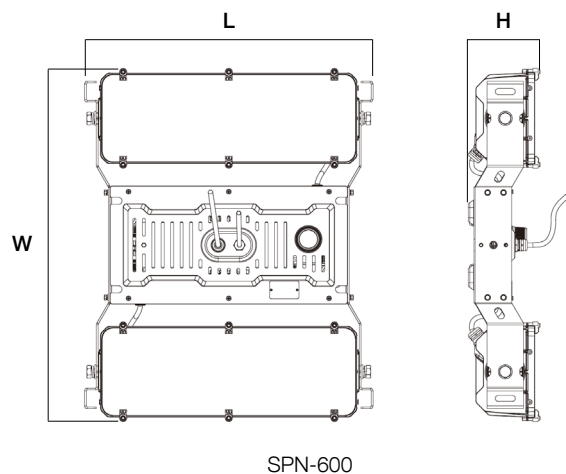
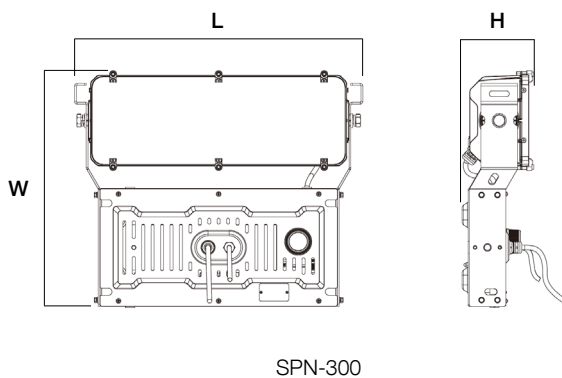
\*see page 7 for sensor spec

## SPN SERIES SPORTS LIGHT NATATORIUM

### DIMENSIONS

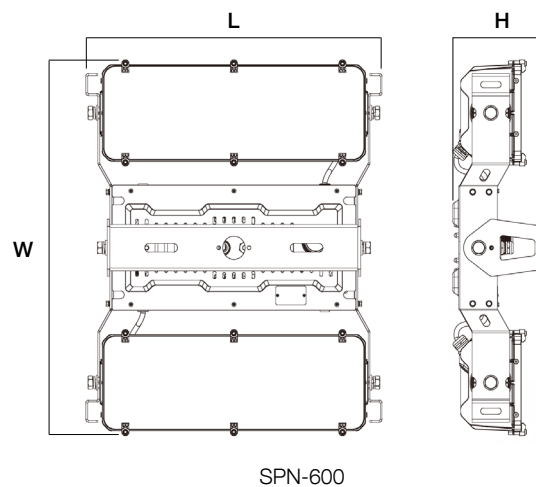
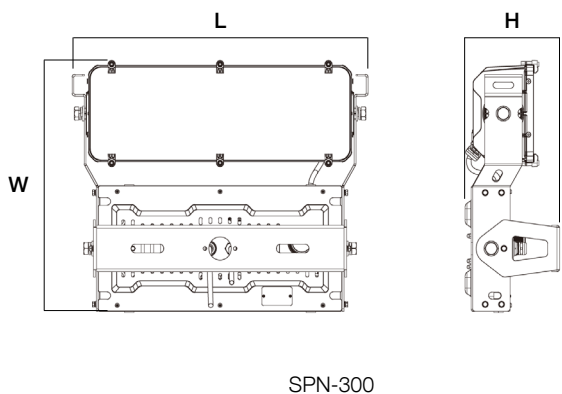
#### SPN

| Model   | L              | W              | H            |
|---------|----------------|----------------|--------------|
| SPN-300 | 19.25" (489mm) | 15.75" (400mm) | 4.8" (122mm) |
| SPN-600 | 19.25" (489mm) | 23.58" (599mm) | 4.8" (122mm) |



#### SPN with bracket for Yoke Mount and Pendant Mount Kit

| Model   | L              | W              | H             |
|---------|----------------|----------------|---------------|
| SPN-300 | 19.25" (489mm) | 15.75" (400mm) | 6.14" (156mm) |
| SPN-600 | 19.25" (489mm) | 23.58" (599mm) | 6.14" (156mm) |



## SPN SERIES SPORTS LIGHT NATATORIUM

### MOUNT OPTIONS

#### SPN-300

**CM** Chain Mount (3FT)



**PMK** Pendant Mount Kit - 3/4" NPT Adapter  
 (Rod Provided by Others)



**YM** Yoke Mount



#### SPN-600

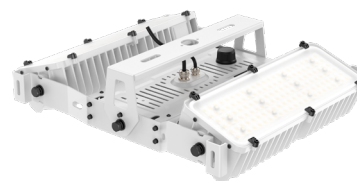
**CM** Chain Mount (3FT)



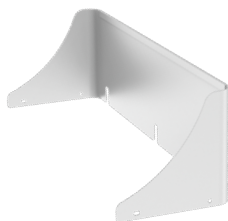
**PMK** Pendant Mount Kit - 3/4" NPT Adapter  
 (Rod Provided by Others)



**YM** Yoke Mount



### ACCESSORIES



**SHIELD-SPN**

Glare Shield for SPN -  
 Symmetrical 33° / 43° Distribution



**SHIELD-SPN-AI**

Glare Shield for SPN -  
 Asymmetrical Intense 35° Distribution



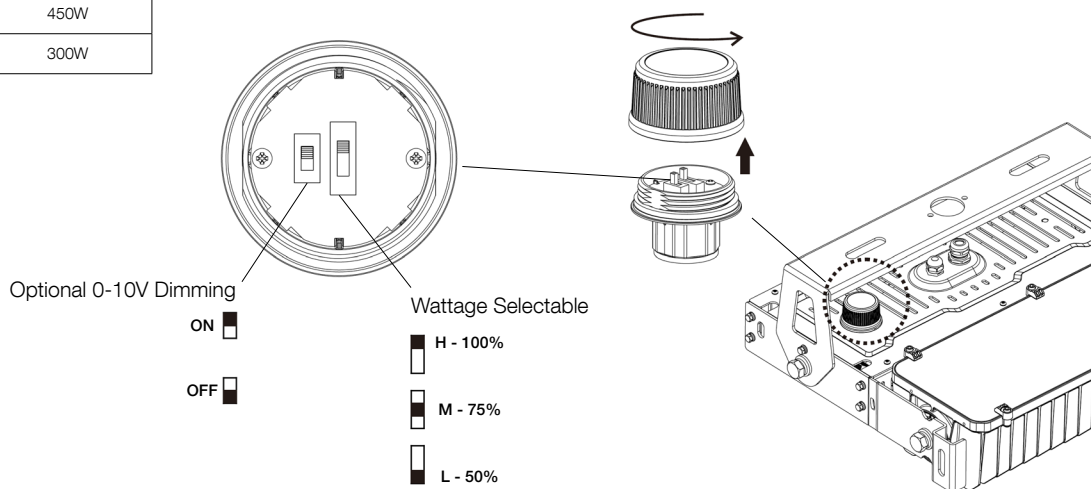
**3/4" NPT Adapter**

For PMK - Pendant Mount Kit  
 (Rod Provided by Others)

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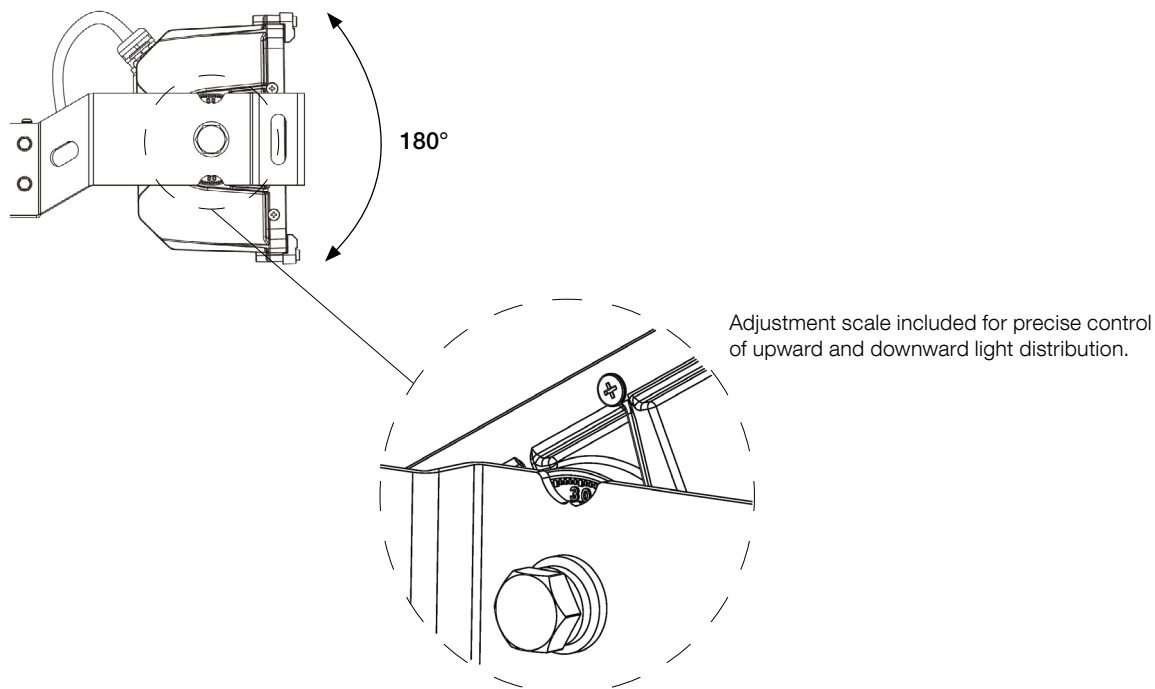
### POWER SELECTION

|       | MODEL   |         |
|-------|---------|---------|
| POWER | SPN-300 | SPN-600 |
| 100%  | 300W    | 600W    |
| 75%   | 225W    | 450W    |
| 50%   | 150W    | 300W    |



### ANGLE ADJUSTMENT

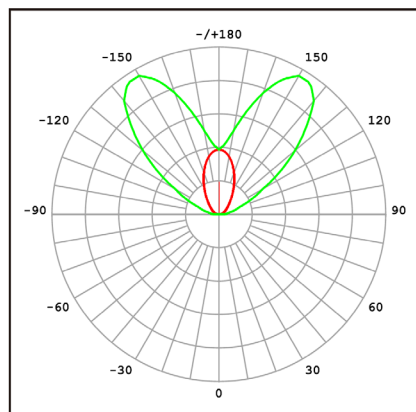
#### 180° Rotatable Module



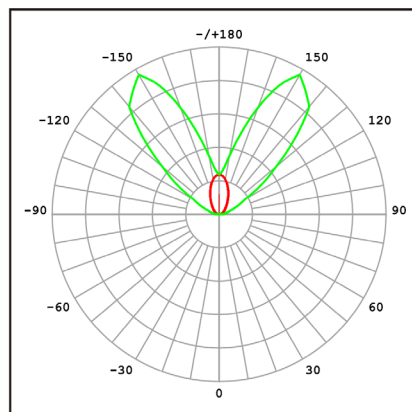
## SPN SERIES SPORTS LIGHT NATATORIUM

### PERFORMANCE DATA

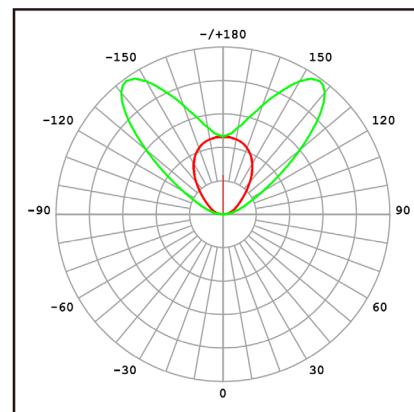
| SYSTEM WATTS   | DISTRIBUTION | 5000K |     |
|----------------|--------------|-------|-----|
|                |              | LUMEN | LPW |
| SPN-300 @ 150W | 33           | 24360 | 150 |
| SPN-300 @ 225W | 33           | 35420 | 157 |
| SPN-300 @ 300W | 33           | 45739 | 152 |
|                |              |       |     |
| SPN-300 @ 150W | 43           | 24898 | 166 |
| SPN-300 @ 225W | 43           | 36145 | 161 |
| SPN-300 @ 300W | 43           | 46599 | 155 |
|                |              |       |     |
| SPN-300 @ 150W | AI35         | 22798 | 150 |
| SPN-300 @ 225W | AI35         | 32900 | 146 |
| SPN-300 @ 300W | AI35         | 42671 | 142 |
|                |              |       |     |
| SPN-600 @ 300W | 33           | 49657 | 165 |
| SPN-600 @ 450W | 33           | 70700 | 157 |
| SPN-600 @ 600W | 33           | 91859 | 153 |
|                |              |       |     |
| SPN-600 @ 300W | 43           | 49690 | 166 |
| SPN-600 @ 450W | 43           | 72276 | 161 |
| SPN-600 @ 600W | 43           | 91931 | 153 |
|                |              |       |     |
| SPN-600 @ 300W | AI35         | 46494 | 155 |
| SPN-600 @ 450W | AI35         | 66699 | 148 |
| SPN-600 @ 600W | AI35         | 85988 | 143 |



**SPN-600**  
 Symmetrical 43° (Dual Module Tilt @ 30°)



**SPN-600**  
 Symmetrical 33° (Dual Module Tilt @ 30°)



**SPN-600**  
 Asymmetrical Intense 35°

SPN SERIES

SPORTS LIGHT NATATORIUM

| SENSOR SPEC                                                                                                            |                       |          |          |        |                                                |                                   |
|------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|----------|--------|------------------------------------------------|-----------------------------------|
| Model                                                                                                                  | Type                  | Mounting | Coverage | Input  | Function                                       | Programmable                      |
| CONTROL-LVFA<br>(see page 8 for detail)                                                                                | Fixture<br>Controller | -        | -        | 12V DC | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App |
| <div>  </div> <div>CONTROL-LVFA</div> |                       |          |          |        |                                                |                                   |

## SPN SERIES SPORTS LIGHT NATATORIUM

### CONTROL-LVFA SPEC

#### Status LEDs & Config Button

Quick and easy validation of wiring and network

#### Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

#### Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



#### Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

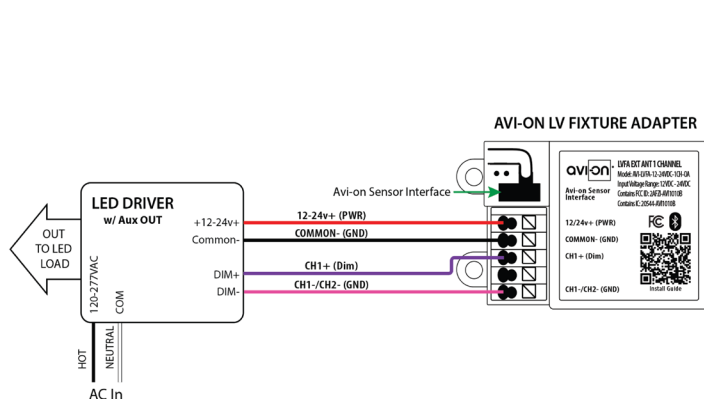
### SPECIFICATIONS

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

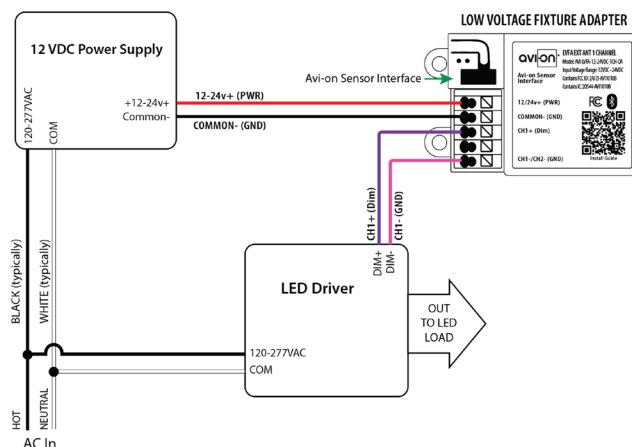
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 10 years optional  
**REGULATORY:** FCC: 2AFZI-AVI1010 B  
 IC: 20544-AVI1010 B  
 BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

### WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply