

## SPQ SERIES SPORTS LIGHT

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Single-piece die-cast aluminum modular housing, dynamic thermal management design that maximizes heat dissipation, substantially increasing life of the luminaire. Available with single, duo or trio-module configuration to meet various project requirements. Low wind-load design, light weight, EPA friendly.

### OPTICS

Precisely engineered optics aim light to uniformly illuminate the field. Available with 10, 15, 30, 60, and 90 Degree and NEMA Type II distribution. Maximum delivered lumen up to 270,000. Optional light shield for less glare and light spill.

### ELECTRICAL

-40°C minimum to +50°C maximum operating temperature.  
 RoHS compliant electronic Class I drivers expected life of 100,000 hours.  
 <1% failure rate.  
 >.9 power factor.  
 <20% total harmonic distortion.  
 10kV surge protector.

### CONTROL (OPTIONAL)

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.  
 Synapse Wireless ProFX Lighting Control System.

### MOUNTING

Robust designed yoke mount secured with 3/4" bolt, versatile mounting bracket designed for ease of installation, 10° increment marking built on bracket offers precise horizontal and vertical aiming.

### STANDARD FINISH

Black UV stabilized polyester powder paint finish.

### CERTIFICATION

Meets Buy America Act requirements.  
 IP65 Wet location label standard.  
 All luminaires are built to UL1598 standards and bear appropriate cETLus labels.  
 DLC® Premium (DesignLights Consortium Qualified).

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



1500W / 1800W



400W / 500W / 600W



800W / 1000W / 1200W

### SHIPPING DATA

| Product  | Measurement        | Weight |
|----------|--------------------|--------|
| SPQ-400  | 27"L x 20"W x 11"H | 46 lb  |
| SPQ-500  | 27"L x 20"W x 11"H | 46 lb  |
| SPQ-600  | 27"L x 20"W x 11"H | 46 lb  |
| SPQ-800  | 37"L x 29"W x 13"H | 98 lb  |
| SPQ-1000 | 37"L x 29"W x 13"H | 98 lb  |
| SPQ-1200 | 37"L x 29"W x 13"H | 98 lb  |
| SPQ-1500 | 64"L x 30"W x 14"H | 137 lb |
| SPQ-1800 | 99"L x 30"W x 14"H | 137 lb |



**synapse**

## SPQ SERIES SPORTS LIGHT

| ORDER INFORMATION |        |            |     | EXAMPLE: SPQ 500 40 60 BK UNV |        |       |
|-------------------|--------|------------|-----|-------------------------------|--------|-------|
| Fixture           | Series | Power & LM | CCT | Distribution                  | Finish | Input |
|                   | SPQ    |            |     |                               | BK     |       |
| Mounting          |        |            |     |                               |        |       |
| Accessories       |        |            |     |                               |        |       |
| Options           |        |            |     |                               |        |       |

## A SERIES

SPQ                      Modular Sports Light

**B** POWER & LM

| Code | Power            | LPW (Avg.) |
|------|------------------|------------|
| 400  | 400W, 62535lm    | 156        |
| 500  | 500W, 74691lm    | 149        |
| 600  | 600W, 91482lm    | 152        |
| 800  | 800W, 124667lm   | 156        |
| 1000 | 1000W, 148,991lm | 148        |
| 1200 | 1200W, 188,409lm | 157        |
| 1500 | 1500W, 221,807lm | 147        |
| 1800 | 1800W, 264,410lm | 146        |

## C CCT

|    |       |
|----|-------|
| 40 | 4000K |
| 50 | 5000K |

## D DISTRIBUTION

|           |     |           |            |
|-----------|-----|-----------|------------|
| <b>10</b> | 10° | <b>T2</b> | 117° x 34° |
| <b>15</b> | 15° |           |            |
| <b>30</b> | 30° |           |            |
| <b>60</b> | 60° |           |            |
| <b>90</b> | 90° |           |            |

## E FINISH

**BK**                      Black Finish

## SPQ SERIES SPORTS LIGHT

### F INPUT

|    |                                |
|----|--------------------------------|
| UD | 110-277V input, 1-10V dimmable |
| HD | 347-480V, 0-10V dimmable       |

### G MOUNTING

|                  |                  |
|------------------|------------------|
| MOUNT-SPQ-YM2-BK | Yoke Mount       |
| MOUNT-SPQ-SF2-BK | Slipfitter Mount |

### H ACCESSORIES/OPTIONS

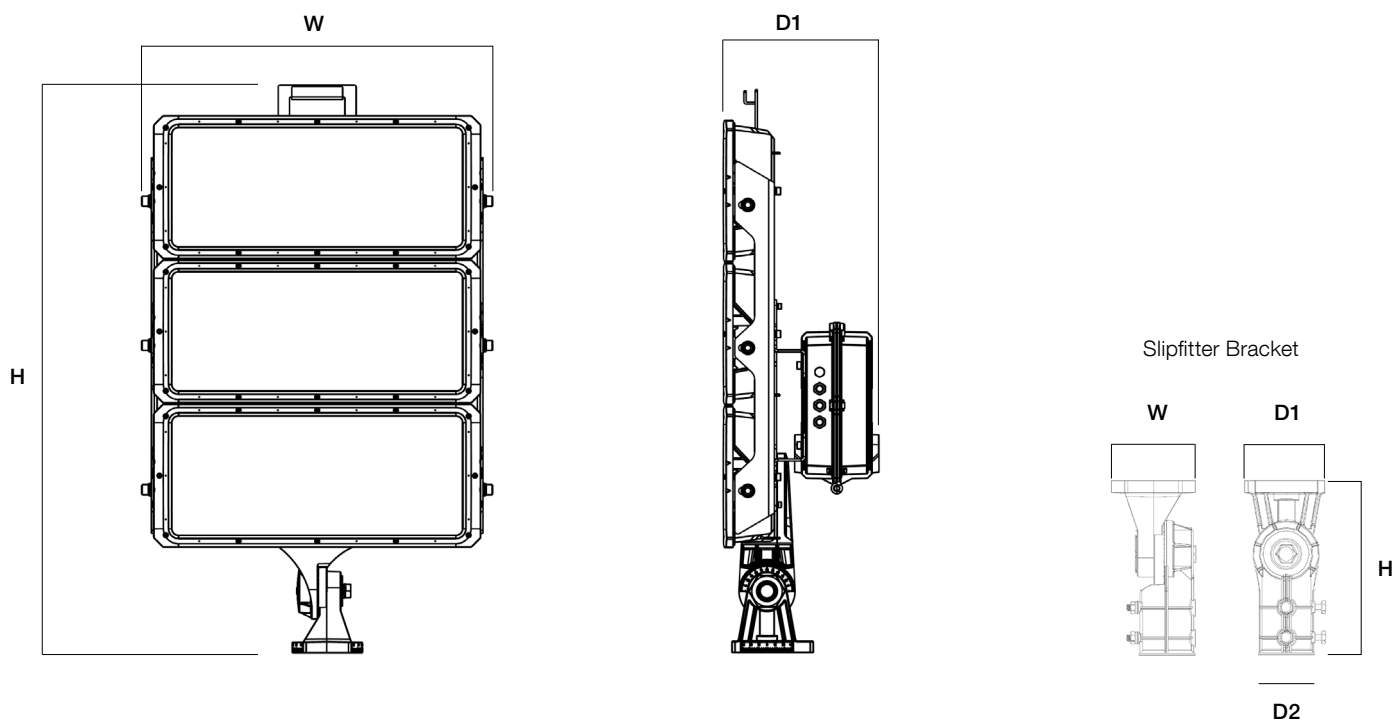
|               |                                                                  |
|---------------|------------------------------------------------------------------|
| AIA           | Assembled in America                                             |
| SHIELD-SPQ-BK | Glare Shield for SPQ                                             |
| LASER-SPQ     | Laser Pointer for Aiming Purpose                                 |
| CONTROL-LVFA* | AVI-ON Bluetooth Mesh Control System                             |
| SYNAPSE       | Synapse Wireless ProFX Lighting Control System (Consult factory) |

\*see page 5 for sensor spec

## SPQ SERIES SPORTS LIGHT

### DIMENSIONS

| Model              | Module | H               | W              | D1             | D2             |
|--------------------|--------|-----------------|----------------|----------------|----------------|
| 400W/500W/600W     | 1      | 21.22" (539mm)  | 22.99" (584mm) | 7.76" (197mm)  | -              |
| 800W/1000W/1200W   | 2      | 31.34" (796mm)  | 24.61" (625mm) | 10.89" (276mm) | -              |
| 1500W/1800W        | 3      | 41.46" (1053mm) | 24.61" (625mm) | 10.89" (276mm) | -              |
| Slipfitter Bracket |        | 10.28" (261mm)  | 4.91" (125mm)  | 4.91" (125mm)  | Ø 2.50" (64mm) |



### EPA

#### 90° TILT



#### 0° TILT



| Mounting    | Yoke        | Yoke        | Yoke         | Yoke        | Yoke        | Yoke         |
|-------------|-------------|-------------|--------------|-------------|-------------|--------------|
| 400W-600W   | 2.31 (43lb) |             |              | 1.88 (43lb) |             |              |
| 800W-1200W  |             | 4.24 (96lb) |              |             | 1.88 (96lb) |              |
| 1500W-1800W |             |             | 6.17 (135lb) |             |             | 1.88 (135lb) |

## SPQ SERIES SPORTS LIGHT

### PERFORMANCE DATA

| SYSTEM WATTS | VOLTAGE  | DIST. TYPE | LUMEN  | LPW |
|--------------|----------|------------|--------|-----|
| 400W         | 100-277V | 10°        | 52573  | 131 |
|              | 100-277V | 15°        | 51550  | 129 |
|              | 100-277V | 30°        | 62535  | 156 |
|              | 100-277V | 60°        | 63355  | 158 |
|              | 100-277V | 90°        | 62481  | 156 |
|              | 100-277V | T2         | 56564  | 141 |
| 500W         | 100-277V | 10°        | 60568  | 121 |
|              | 100-277V | 15°        | 65596  | 131 |
|              | 100-277V | 30°        | 74691  | 149 |
|              | 100-277V | 60°        | 76085  | 152 |
|              | 100-277V | 90°        | 75380  | 151 |
|              | 100-277V | T2         | 68457  | 137 |
| 600W         | 100-277V | 10°        | TBD    | TBD |
|              | 100-277V | 15°        | TBD    | TBD |
|              | 100-277V | 30°        | 91482  | 152 |
|              | 100-277V | 60°        | 93195  | 155 |
|              | 100-277V | 90°        | 91929  | 153 |
|              | 100-277V | T2         | 83963  | 140 |
| 800W         | 100-277V | 10°        | 105274 | 132 |
|              | 100-277V | 15°        | 113348 | 142 |
|              | 100-277V | 30°        | 124667 | 156 |
|              | 100-277V | 60°        | 123382 | 154 |
|              | 100-277V | 90°        | 124228 | 155 |
|              | 100-277V | T2         | 112552 | 141 |
| 1000W        | 100-277V | 10°        | 122655 | 123 |
|              | 100-277V | 15°        | 134072 | 134 |
|              | 100-277V | 30°        | 148000 | 148 |
|              | 100-277V | 60°        | 147158 | 147 |
|              | 100-277V | 90°        | 146669 | 147 |
|              | 100-277V | T2         | 135942 | 136 |
| 1200W        | 100-277V | 10°        | TBD    | TBD |
|              | 100-277V | 15°        | TBD    | TBD |
|              | 100-277V | 30°        | 188409 | 157 |
|              | 100-277V | 60°        | 191878 | 160 |
|              | 100-277V | 90°        | 191168 | 159 |
|              | 100-277V | T2         | 168616 | 141 |
| 1500W        | 100-277V | 10°        | 180148 | 120 |
|              | 100-277V | 15°        | 197155 | 131 |
|              | 100-277V | 30°        | 221807 | 148 |
|              | 100-277V | 60°        | 221272 | 148 |
|              | 100-277V | 90°        | 228629 | 152 |
|              | 100-277V | T2         | 204226 | 136 |
| 1800W        | 100-277V | 10°        | TBD    | TBD |
|              | 100-277V | 15°        | 243792 | 135 |
|              | 100-277V | 30°        | 264410 | 147 |
|              | 100-277V | 60°        | 279556 | 155 |
|              | 100-277V | 90°        | 274923 | 153 |
|              | 100-277V | T2         | 254255 | 141 |

**SPQ SERIES SPORTS LIGHT**

**SENSOR SPEC**

| Model                                   | Type                  | Mounting | Coverage | Input  | Function                                       | Programmable                      |
|-----------------------------------------|-----------------------|----------|----------|--------|------------------------------------------------|-----------------------------------|
| CONTROL-LVFA<br>(see page 6 for detail) | Fixture<br>Controller | -        | -        | 12V DC | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App |



CONTROL-LVFA

## SPQ SERIES SPORTS LIGHT

### CONTROL-LVFA SPEC

#### Status LEDs & Config Button

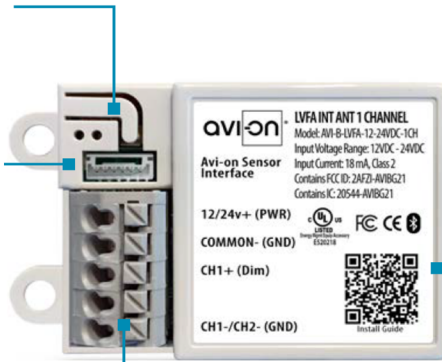
Quick and easy validation of wiring and network

#### 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

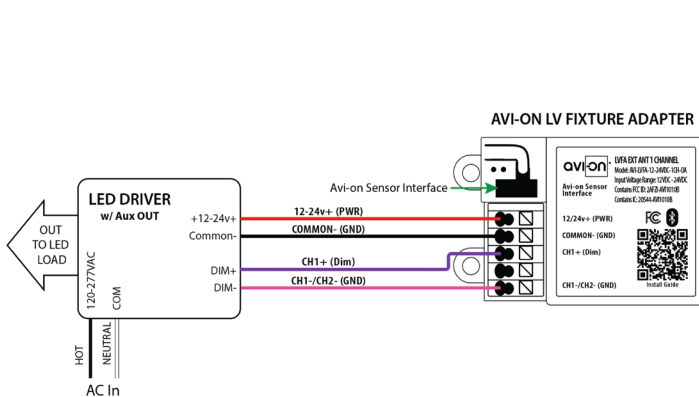
### SPECIFICATIONS

**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)

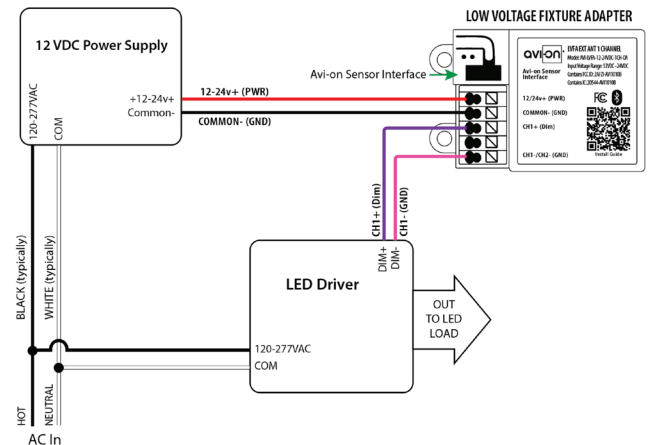
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 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