

# SP Series

## Square Spectra-Lyte Garage Light, 70-175W HID

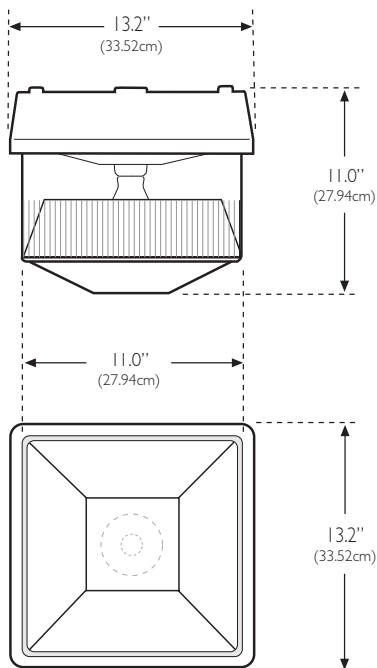
|                       |                          |            |                                |        |                                  |
|-----------------------|--------------------------|------------|--------------------------------|--------|----------------------------------|
| Type:                 | Job:                     | Approvals: |                                |        |                                  |
| Catalog Number:       |                          |            |                                |        | Date:<br>Page 1 of 6             |
| Series/Source-Wattage | Optics<br>(Distribution) | Voltage    | Options<br>(Factory Installed) | Finish | Accessories<br>(Field Installed) |

### Overall Dimensions

For Reference Only

SP

S optic (standard)



Weight

21 lbs. (9.53 kg)

### Specifications

#### Housing

Die-cast aluminum alloy construction shall ensure durability within parking structures. Construction and finish of the housing and all exterior hardware shall ensure fixture is resistant to the effects of corrosives and contaminants such as exhaust fumes. Easy Hanger Plate and internal component mounting brackets shall be fabricated from pregalvanized steel. Standard unit constructed to IP54.

#### Optical Assembly

Standard HID enclosed and gasketed optical assembly (S optics) shall have an internal reflector system with upper and lower apertures for controlled downlight with uplight component. Reflector shall also shield the arc tube to sharply restrict discomfort and disabling glare. Downlight component shall have a Type V Square distribution with sharp definition and high peak angles to give wide spacing and high uniformity while avoiding glare in visual zones. Upper aperture shall provide a symmetrical, upward light component that provides fill light on ceiling surfaces. Primary reflector shall be fabricated from specular, high purity anodized aluminum that is fixed within lens interior for proper photometric alignment. The secondary, upper reflector shall be fabricated from specular, high purity, anodized aluminum and shall redirect high angle light back to the primary reflector and useful beam.

#### Lens

The injection-molded, UV stabilized, high impact acrylic lens shall be gasketed and enclosed for optimal performance. Lens shall have smooth, clear surfaces at all points where light is emitted in lower components for accurate distribution. All external surfaces shall be smooth to deter dirt build-up and simplify cleaning.

#### Lamp / Socket

Socket shall be porcelain, with spring-pressure center contact, 4KV pulse rated. Socket shall mount directly to the upper reflector to assure proper photometric alignment with the optical system.

#### Ballast

Ballast shall be high power factor with reliable starting at temperatures as low as -34°C (-30°F) for Pulse Start MH, and -40°C (-40°F) for High Pressure Sodium. Crest factor does not exceed 1.8. Ballast has Class H, 180°C (356°F) rated insulation system.

#### Mounting

Standard mounting shall include a galvanized steel Easy Hanger Plate with universal provisions for 4" round and octagonal junction boxes. An external set screw allows the fixture to be locked or removed without fixture disassembly. Optional tamperproof screws available. Threaded hubs are optional for pendant mounting to ¾" rigid conduit or direct surface mounting with feed-through wiring.

#### Finish

Standard finish shall be Textured Satin Aluminum UltraClad polyester powder coat, electrostatically applied and oven cured. Other colors may be specified.

#### Listings

ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations. The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

#### Warranty / Terms and Conditions

Standard 5 Year Limited Warranty except as noted.

The current Philips Wide-Lite Warranty may be found at [www.wide-lite.com](http://www.wide-lite.com) (keyword: warranty) as well as the current Standard Terms and Conditions of Sale (keyword: terms).

All sales of items in this catalogue shall be subject to the Philips Wide-Lite Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Wide-Lite Warranty and Standard Terms, please contact the factory for same prior to ordering.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org).

Philips Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice. Please refer to detailed specification sheets for additional information and spec details.

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# SP Series

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| Series/Source-Wattage  | Optics (Distribution)   | Voltage   | Options (Factory Installed)  | Finish  |
|--|---|---|--|---|
| <b>Pulse Start Metal Halide</b><br><input type="checkbox"/> <b>SPP-70</b><br><input type="checkbox"/> <b>SPP-100</b><br><input type="checkbox"/> <b>SPP-150</b><br><input type="checkbox"/> <b>SPP-175</b><br><br><b>High Pressure Sodium</b><br><input type="checkbox"/> <b>SPS-70</b><br><input type="checkbox"/> <b>SPS-100</b><br><input type="checkbox"/> <b>SPS-150</b> | <input type="checkbox"/> <b>S</b> Type V Square Distribution<br>Dual reflector system with acrylic lens | <input type="checkbox"/> <b>120</b><br><input type="checkbox"/> <b>208</b><br><input type="checkbox"/> <b>240</b><br><input type="checkbox"/> <b>277</b><br><input type="checkbox"/> <b>480</b><br><input type="checkbox"/> <b>QV</b><br><small>Quad voltage ballast Allows field selection of 120V / 208V / 240V / 277V.</small> | <input type="checkbox"/> <b>BL</b> Bi-Level dimming<br><input type="checkbox"/> <b>ITS</b> Ignitor Turn-Off Switch<br><input type="checkbox"/> <b>VL</b> Polycarbonate Lens (150W max)<br><input type="checkbox"/> <b>NUL</b> No Uplight<br><input type="checkbox"/> <b>CSR</b> Hot Quartz Restrike<br><input type="checkbox"/> <b>LQ</b> Hot/Cold Quartz Restrike<br><input type="checkbox"/> <b>LQ1</b> Separately Wired (120V) Quartz Restrike<br><input type="checkbox"/> <b>LQ2</b> LQ and LQ1 combined<br><input type="checkbox"/> <b>F1</b> Single Fuse (120/277V)<br><input type="checkbox"/> <b>F2</b> Double Fuse (208/240/480V)<br><input type="checkbox"/> <b>BP</b> Bulk Pack Easy Hanger Plate<br><input type="checkbox"/> <b>TS</b> Tamper Resistant Screws<br><input type="checkbox"/> <b>NLMP</b> No Lamp<br><input type="checkbox"/> <b>CWA</b> Low Wattage CWA Ballast<br><input type="checkbox"/> <b>Y</b> Yoke Mount<br><input type="checkbox"/> <b>PND-RC</b> Pendant Mounting (Rigid Conduit)<br><input type="checkbox"/> <b>PND-RC-24LDS</b> PND-RC option with 24" leads<br><input type="checkbox"/> <b>TW2</b> Thru-Wire Provision<br><input type="checkbox"/> <b>50HZ</b> 50 Hz ballast operation<br><input type="checkbox"/> <b>HS90</b> 90° House Side Shield | <input type="checkbox"/> <b>TSA</b> Textured Satin Aluminum<br><input type="checkbox"/> <b>TDB</b> Textured Dark Bronze<br><input type="checkbox"/> <b>TBK</b> Textured Black<br><input type="checkbox"/> <b>TGN</b> Textured Green<br><input type="checkbox"/> <b>TGR</b> Textured Gray<br><input type="checkbox"/> <b>TWHT</b> Textured White<br><input type="checkbox"/> <b>RAL(*)</b> Special Tiger Drylac® powder coat finish<br><br><small>(*) Specify RAL color number from RAL color chart (Consult factory.)</small> |

### Accessories (Ordered Separately)

- |   |                                |
|---|--------------------------------|
| <input type="checkbox"/> <b>F1-KIT</b>  | Single Fuse Kit (120/277V)     |
| <input type="checkbox"/> <b>F2-KIT</b>  | Double Fuse Kit (208/240/480V) |
| <input type="checkbox"/> <b>PND-OJB</b> | Offset Junction Box            |

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### Distribution Guide & Ballast Data

| Source Type <sup>(1)</sup> | Catalog Number | Lamp Envelope | Optics <sup>(3)</sup> | % Uplight | SP/MH | .ies File Name <sup>(2)</sup> | Ballast Type <sup>(3)</sup> | ANSI Code                  | Line Current<br>120/208/240/277/480                       | Line Watts | LER <sup>(4)</sup> |
|----------------------------|----------------|---------------|-----------------------|-----------|-------|-------------------------------|-----------------------------|----------------------------|---|------------|--------------------|
| <b>PS</b>                  | <b>SPP-175</b> | BT / ED17     | S                     | 14.0      | 5.0   | spp17s.ies                    | CWA                         | M137 / M152                | 2.0 / 1.1 / 0.9 / 0.8 / 0.5                               | 220        | 62                 |
|                            | <b>SPP-150</b> | BT / ED17     | S                     | 14.0      | 4.9   | spp15.ies                     | HX-HPF<br>optional CWA      | M102 / M142<br>M137 / M152 | 3.7 / 2.1 / 1.8 / 1.6 / 1.0<br>1.7 / NA / NA / 0.8 / NA   | 185<br>189 | 57                 |
|                            | <b>SPP-100</b> | BT / ED17     | S                     | 14.0      | 4.9   | spp10.ies                     | HX-HPF<br>optional CWA      | M90 / M140<br>M90 / M140   | 2.8 / 1.5 / 1.4 / 1.2 / 0.6<br>1.1 / NA / NA / 0.5 / NA   | 130<br>128 | 57                 |
|                            | <b>SPP-70</b>  | BT / ED17     | S                     | 14.0      | 4.9   | spp70.ies                     | HX-HPF                      | M98 / M143                 | 1.9 / 1.0 / 0.9 / 0.8 / 0.5                               | 95         | 54                 |
| <b>HPS</b>                 | <b>SPS-150</b> | BT / ED17     | S                     | 14.2      | 5.0   | sps15.ies                     | HX-HPF<br>optional CWA      | S55<br>S55                 | 3.2 / 1.7 / 1.6 / 1.4 / 0.7<br>1.7 / NA / 0.9 / 0.7 / 0.5 | 195<br>190 | 69                 |
|                            | <b>SPS-100</b> | BT / ED17     | S                     | 14.2      | 5.2   | rsps10s.ies                   | HX-HPF<br>optional CWA      | S54<br>S54                 | 2.3 / 1.4 / 1.1 / 1.0 / 0.8<br>1.2 / NA / 0.7 / 0.5 / 0.3 | 130<br>138 | 58                 |
|                            | <b>SPS-70</b>  | BT / ED17     | S                     | 14.2      | 5.2   | rsps70.ies                    | HX-HPF                      | S62                        | 1.7 / 1.0 / 0.9 / 0.8 / 0.6                               | 94         | 52                 |

Notes:

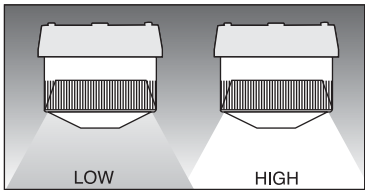
- (1) PS = Pulse Start Metal Halide, HPS = High Pressure Sodium. Clear lamps recommended for optimum uniformity.
- (2) Standard reflector type: S = Type V Square distribution.
- (3) CWA = Constant Wattage Autotransformer, HX-HPF = High Reactance High Power Factor.
- (4) LER = Luminaire Efficacy Rating. Calculated in accordance with NEMA Standard LE-5B.

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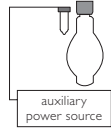
### Option details (Factory Installed)

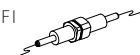
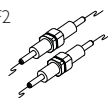
|            |   |   |   |
|------------|---|---|---|
| <b>BL</b>  | Bi-Level (Hi/Low dimming)<br><br><i>Bi-level dimming is suitable for HPS in all wattages.</i><br><br><i>Metal halide dimming below 100W is not recommended due to noticeable color shift.</i> | Provides High / Low level of lamp output to 50% power.<br>Zero crossover network avoids strobing and lamp dropout.  |  |
| <b>ITS</b> | Ignitor Turn-off switch   | For preventing damage to the ballast at PSMH and HPS lamp end-of-life.<br>Disconnects ignitor within seven minutes if a lamp has failed.<br>See also Philips Wide-Lite Technical Bulletin: Operating Cautions for all products using HID lamps. |   |
| <b>VL</b>  | Vandal resistant polycarbonate lens   | Impact resistant polycarbonate lens is less prone to vandalism.<br>Covered by a 1 year factory warranty.  |   |
| <b>NUL</b> | No Uplight  | Provides shielding of upper lens aperture and reduction of uplight component.   |   |

### Auxiliary Quartz Lighting Systems

**Notes:** Standard 100 watt (120V) double contact bayonet base socket. Combined Quartz wattage may not exceed HID lamp wattage.

LQ1 and LQ2 require an Interlock (by others) to ensure HID and Quartz source are not operated together.

|            |  |   |   |
|------------|--|---|---|
| <b>CSR</b> | Hot quartz restrike (no time delay) (100W quartz lamp max)   | <b>CSR:</b> Quartz restrike using a current sensing relay.<br>Activation: At cold start / restrike, through Run Down.<br>Extinguishes once main HID lamp strikes / restrikes.   |   |
| <b>LQ</b>  | Hot/Cold quartz restrike (100W quartz lamp max)  | <b>LQ:</b> Provides LiteMatic Quartz auxiliary operation for fixtures with 120V or multi-tap ballasts.<br>Activation: At cold start / restrike, through run down, restrike and ramp up.<br>Extinguishes after HID lamp reaches approximately 40% light output.  |   |
| <b>LQ1</b> | Separately wired (120V) quartz restrike (100W quartz lamp max)<br>Requires an Interlock (by others) to ensure HID and quartz source are not operated together. | <b>LQ1:</b> Separately wired, externally controlled Quartz Emergency Lighting from an auxiliary power source (generator; inverter; UPS).<br>Activation: Emergency (Black Out) conditions only.<br>Extinguishes when main power is restored.   |  |
| <b>LQ2</b> | LQ and LQ1 combined in the same fixture  | <b>LQ2:</b> Combines the standard LQ and LQ1 systems to provide the ultimate in safety and security.<br>Activation: 1) At cold start / restrike, through run down, restrike and ramp up. Quartz lamp is extinguished after HID lamp reaches approximately 40% light output.<br>2) Emergency (Black Out) conditions only.<br>Extinguishes when main power is restored. |   |

|           |                           |  |   |           |                                  |   |   |
|-----------|---------------------------|--|---|-----------|----------------------------------|---|---|
| <b>F1</b> | Single fuse (120V / 277V) | 1 KTK 30 amp fuse mounted internally on the ballast plate. |  | <b>F2</b> | Double fuse (208V / 240V / 480V) | 2 KTK 30 amp fuses mounted internally on the ballast plate. |  |
|-----------|---------------------------|--|---|-----------|----------------------------------|---|---|

*Note: Fusing options require that voltage must be specified with units ordered with QV ballasts.*

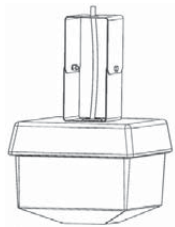


|             |                               |   |  |
|-------------|-------------------------------|---|--|
| <b>BP</b>   | Bulk packed Easy Hanger Plate | For job site installation prior to scheduled fixture arrival.               |  |
| <b>TS</b>   | Tamper resistant screws       | Provides an additional level of security by inhibiting unauthorized access. |  |
| <b>NLMP</b> | No lamp                       | Specified if lamps are to be provided by others.                            |  |
| <b>CWA</b>  | Low wattage CWA ballast       | Provides improved voltage regulation and reduces current draw.              |  |

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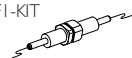


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### Option details (continued)

|                     |                                 |  |   |
|---------------------|---------------------------------|--|---|
| <b>Y</b>            | Yoke mount                      | Specified as an alternative to pendant mounting, especially for sloped ceilings.<br>Yoke provides rigidity as well as adjustable mounting height and routing of SO cord (provided by others).  |    |
| <b>PND-RC</b>       | Pendant mounting                | 3/4" threaded hub allows mounting to rigid pendant lengths up to 12".<br>(Junction Box by others)<br>Standard supply wiring connection for PND-RC is made inside fixture and requires removal of lens and reflector pan.<br>For external wiring to ceiling mounted junction box, specify PND-RC-24LDS.<br><i>Note: For mounting to conduit lengths greater than 12", standard unit's EZ Hanger plate mounting is required along with separately ordered PND-OJB accessory.</i> |    |
| <b>PND-RC-24LDS</b> | Pendant mounting with 24" leads | 24" leads supplied for external wiring to ceiling mounted junction box.<br>3/4" threaded hub allows mounting to rigid conduit. (Junction Box by others)<br><i>Note: If installation requires longer leads, contact factory to specify custom length leads.</i><br><i>Note: For mounting to conduit lengths greater than 12", standard unit's EZ Hanger plate mounting is required along with separately ordered PND-OJB accessory.</i>   |   |
| <b>TW2</b>          | Thru-wire provision             | Feed-thru wiring for direct surface mounting to 3/4" conduit.  |  |
| <b>50HZ</b>         | 50 Hz ballast operation         | Specified for applications (outside the United States) where 50 Hertz operation is standard.   |   |
| <b>HS90</b>         | House Side Shield (90°)         | Factory installed.   |   |

### Accessory details (Field Installed - Shipped Separately)

|                |   |   |   |
|----------------|---|---|---|
| <b>F1-KIT</b>  | Single fuse kit (120V / 277V)<br><i>Note: Voltage must be specified.</i>        | 1 KTK 30 amp fuse and fuse holder for field installation  |  |
| <b>F2-KIT</b>  | Double fuse kit (208V / 240V / 480V)<br><i>Note: Voltage must be specified.</i> | 2 KTK 30 amp fuses and fuse holder for field installation   |  |
| <b>PND-OJB</b> | Offset junction box   | 3/4" threaded hub allows mounting to free-swinging or rigid pendant lengths greater than 12".<br>(used with standard EZ Hanger plate) |  |

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Notes



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