5" ROUND LED DOWNLIGHT
OS SERIES / 4500 LUMENS MAX

SGE5LEDOs

APPLICATION
5" LED Recessed open aperture downlight for general downlighting.

FEATURES
Two-stage optical system for smooth light distribution. Shallow or deep trim options. Zhaga LED module for ease of maintenance and replacement. Shallow plenum design. Tool-less LED module, driver and J-Box access. Multi-Bar mounting brackets. BH27 Standard mounting bars included. Post-lock trim retention torsion springs. Integral 0.625" collar, with Deep Ceiling Extension (PR), contact factory.

TRIM FINISH
A variety of architectural powdercoat and anodized finishes are available. Matte white self-flange is standard.

ELECTRONICS
LED module features high brightness white Osram LEDs. 3-step MacAdam Ellipse binning and CRI 84 minimum. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION
Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece trim spun from 0.063" thick high purity aluminum and finished to specification. Passive machined aluminum heatsink.

CODE COMPLIANCE

RECEDED HOUSING SPECIFICATION

<table>
<thead>
<tr>
<th>SERIES</th>
<th>LUMENS 1</th>
<th>CCT</th>
<th>DRIVER / VOLTAGE 2</th>
<th>OPTIONS 3</th>
<th>TRIM</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGE5LEDOs</td>
<td>10L</td>
<td>1100 Lm</td>
<td>27K</td>
<td>2700K</td>
<td>E</td>
<td>Electronic Dimming</td>
<td></td>
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<tr>
<td></td>
<td>2L</td>
<td>2000 Lm</td>
<td>30K</td>
<td>3000K</td>
<td>D10-</td>
<td>10% 0-10V Dimming</td>
<td></td>
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<tr>
<td></td>
<td>3L</td>
<td>3000 Lm</td>
<td>35K</td>
<td>3500K</td>
<td>D10-</td>
<td>10% 0-10V Dimming</td>
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</tr>
<tr>
<td></td>
<td>4L</td>
<td>4000 Lm</td>
<td>40K</td>
<td>4000K</td>
<td>D250-</td>
<td>250W/ 1% 0-10V Dimming</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6L</td>
<td>6000 Lm</td>
<td>60K</td>
<td>6000K</td>
<td>D250-</td>
<td>250W/ 1% 0-10V Dimming</td>
<td></td>
</tr>
</tbody>
</table>

EXAMPLE: SGE5LEDOs20L35KE1/AR5223OSSGSO

NOTES:
1 See Energy Star Website for Up To Date Product List
2 Nominal Source Lumens at 3500K
3 Nominal Delivered Lamp at 3500K with AS223SSGSO
4 Contract Factory for Special Finishes
5 Standard Lamps
6 Standard Bar Hangers
7 Contract Factory
8 Standard Bar Hangers
9 Standard Bar Hangers
10 Flange and Reflector Same Finish
11 Standard Lamps

Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.
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**PROJECT:**

**CAT. NO.:**

**TYPE:**

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**5" ROUND OS SERIES LED DOWNLIGHT**

**SHALLOW TRIM / PHOTOMETRIC DATA**

### 10L - SGE5LEDOS-10L35KEX-AR5223OSSGSO

- **Polar Candle Distribution**
- **Zonal Lumen Summary**
  - **Zone**
  - **Lumens % Lumen**
  - **0-10**
  - **75-80**
  - **85-90**
  - **90-95**
  - **95-100**
- **Candela Table**
- **Illuminance at a Distance**
  - **2.5 ft**
  - **4 ft**
  - **6 ft**
  - **12 ft**
  - **Vert. Spread**
  - **Horiz. Spread**

### 20L - SGE5LEDOS-20L35KEX-AR5223OSSGSO

- **Polar Candle Distribution**
- **Zonal Lumen Summary**
  - **Zone**
  - **Lumens % Lumen**
  - **0-10**
  - **75-80**
  - **85-90**
  - **90-95**
  - **95-100**
- **Candela Table**
- **Illuminance at a Distance**
  - **2.5 ft**
  - **4 ft**
  - **6 ft**
  - **12 ft**
  - **Vert. Spread**
  - **Horiz. Spread**

### 30L - SGE5LEDOS-30L35KEX-AR5223OSSGSO

- **Polar Candle Distribution**
- **Zonal Lumen Summary**
  - **Zone**
  - **Lumens % Lumen**
  - **0-10**
  - **75-80**
  - **85-90**
  - **90-95**
  - **95-100**
- **Candela Table**
- **Illuminance at a Distance**
  - **2.5 ft**
  - **4 ft**
  - **6 ft**
  - **12 ft**
  - **Vert. Spread**
  - **Horiz. Spread**

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**Flood Summary**

- **Field (10%):**
  - 90.5%
- **Beam (50%):**
  - 56.5%
- **Vert. Spread:**
  - 29.9°

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**SMALL ROUND LED DOWNLIGHTS**

- **REFLECTIVE CONE**
  - **5" ROUND OS SERIES**
  - **5" ROUND OS SERIES LED DOWNLIGHT**
  - **SHALLOW TRIM**
  - **PHOTOMETRIC DATA**
  - **Candle Table**
  - **Illuminance at a Distance**
  - **Vert. Spread**
  - **Horiz. Spread**

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**SPECTRUM LIGHTING INC.**

**MADE IN THE USA**

**WWW.SPECLIGHT.COM • 994 JEFFERSON STREET, FALL RIVER, MA 02721 • 508.678.2303 FAX 508.678.2260**
10L - SGE5LEDOS-10L35KEX-AR5224OSSGSO

- Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

- Recessed fixtures

- 5" ROUND OS SERIES LED DOWNLIGHT

- **DEEP TRIM / PHOTOMETRIC DATA**

**Polar Candela Distribution**

<table>
<thead>
<tr>
<th>Zonal Lumen Summary</th>
<th>Zone</th>
<th>Lumen %</th>
<th>Zonal Area (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-0.9</td>
<td>0</td>
<td>178.3</td>
<td>178.3</td>
</tr>
<tr>
<td>1.8-2.4</td>
<td>1</td>
<td>178.3</td>
<td>178.3</td>
</tr>
<tr>
<td>3.2-3.9</td>
<td>2</td>
<td>178.3</td>
<td>178.3</td>
</tr>
<tr>
<td>4.6-5.5</td>
<td>3</td>
<td>178.3</td>
<td>178.3</td>
</tr>
<tr>
<td>6.4-7.5</td>
<td>4</td>
<td>178.3</td>
<td>178.3</td>
</tr>
</tbody>
</table>

**Luminance Chart**

<table>
<thead>
<tr>
<th>Distance (ft)</th>
<th>Luminance (cd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1440</td>
</tr>
<tr>
<td>2</td>
<td>720</td>
</tr>
<tr>
<td>3</td>
<td>480</td>
</tr>
<tr>
<td>4</td>
<td>360</td>
</tr>
<tr>
<td>5</td>
<td>280</td>
</tr>
<tr>
<td>6</td>
<td>216</td>
</tr>
<tr>
<td>7</td>
<td>168</td>
</tr>
<tr>
<td>8</td>
<td>135</td>
</tr>
<tr>
<td>9</td>
<td>108</td>
</tr>
<tr>
<td>10</td>
<td>84</td>
</tr>
<tr>
<td>11</td>
<td>65</td>
</tr>
<tr>
<td>12</td>
<td>52</td>
</tr>
<tr>
<td>13</td>
<td>41</td>
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<td>8</td>
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<tr>
<td>22</td>
<td>6</td>
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<tr>
<td>23</td>
<td>5</td>
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<tr>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>25</td>
<td>3</td>
</tr>
</tbody>
</table>

**Flood Summary**

<table>
<thead>
<tr>
<th>Beam (#)</th>
<th>Width (°)</th>
<th>Spacing Ratio (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>21.5</td>
<td>0.63</td>
</tr>
<tr>
<td>4</td>
<td>15.0</td>
<td>0.63</td>
</tr>
<tr>
<td>5</td>
<td>10.5</td>
<td>0.63</td>
</tr>
<tr>
<td>6</td>
<td>7.5</td>
<td>0.63</td>
</tr>
</tbody>
</table>

**Cat. No.:**

SGE5LEDOS-10L35KEX-AR5224OSSGSO

**Project:**

- Spectral Trim

**Type:**

- LED Downlight

**Dimensions and Values:**

- **Nominal:**

- **Approximate:**

- **Actual:**

- **Standard:**

- **Custom:**

**Contact:**

- Spectrum Lighting Inc.

- 994 Jefferson Street

- Fall River, MA 02721

- 508.678.2303

- Fax: 508.678.2260

- WWW.SPECLIGHT.COM

- Made in the USA

- 2020 Spectrum Lighting Inc.
MOUNTING BAR OPTIONS

All Spectrum Recessed Frames have wire mount provisions.

BH27 - 27” SOLID BARS
Standard on all SG series recessed fixtures. May be field bent or cut to fit job site applications. #14 G.A. galv. steel solid mounting bar. Fits all Spectrum recessed fixtures. Mounting holes and nail in feature. Vertical and horizontal adjustment.

BH12 - 12” - 24” EXPANDABLE BARS

CB24 / CB48 - C-CHANNEL BARS
Optional on all SG series fixtures. #16 GA galv. steel C-Channel bar. Designed for T-Bar ceilings. Available in 24" and 48" standard lengths. Custom sizes available. Strong enough to support all Spectrum recessed fixtures.

CHC24 / CHC36 - CHICAGO BARS
Optional on all SG series available for 24" and 36" OC Ceiling designs. Proprietary latch design engages Chicago bar and locks fixtures in place. Optional tek screw down holes. Fixture locates at center of bar, but will adjust across full length of bar.

EMERGENCY BATTERY

UL 1310 Certified, Class 2 Compliant. Rated for 10 year service life. Recyclable Ni-Cad battery. Includes single-piece T185 test switch and charge indicator accessory. Constant power supply for superior lumen maintenance. Rated for 90 minute operation. This product has been tested on our OS, XT and GV LED systems and maintains 5-year warranty. Listed for use in damp locations and in enclosed and gasketed fixtures. May be ordered as remote mount for field installation up to 20' from fixture. Consult factory for remote EM options.

EMLED5W 5W Emergency Battery for LED 120v/277v
EMLED7W* 7W Emergency Battery for LED 120v/277v
EMLED12W 12W Emergency Battery for LED 120v/277v

*Standard Wattage Shipped

ADDITIONS

FS - FUSING
Factory installed, slow blow type fuse protects fixture against voltage surges.

GS - GASKET
Gasket for trims. Fits in back of trim flange. Best for rough ceilings.

CR - CORROSION RESISTANT
All materials go through seven stage powder coat process. All untreated components are aluminum.

PR - DEEP CEILING EXTENSION
All SG fixtures have standard 5/8" plaster neck and are designed to work in up to 1" thick ceiling. For deeper / thicker ceilings the PR plaster ring option (Specify Depth in Inches). May be factory installed. Consult factory for availability.

AM8 - ANTI MICROBIAL
Special Anti Microbial powdercoat finish resists and inhibits bacterial growth.

GR - GOOF RING
Goof rings are spun .050 aluminum and finished matte white to match trim flange. These oversize rings cover up rough or poorly cut out holes. Goof rings seat and center trims. Special sizes available.

EMERGENCY BATTERY SERIES

<table>
<thead>
<tr>
<th>LED SERIES</th>
<th>EMLED5W</th>
<th>EMLED7W*</th>
<th>EMLED12W</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>500 Lm</td>
<td>700 Lm</td>
<td>1100 Lm</td>
</tr>
<tr>
<td>XT</td>
<td>600 Lm</td>
<td>800 Lm</td>
<td>1300 Lm</td>
</tr>
<tr>
<td>GV</td>
<td>700 Lm</td>
<td>900 Lm</td>
<td>1600 Lm</td>
</tr>
</tbody>
</table>

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