**SPECIFICATIONS**

**MATERIAL**
- Lens - Polycarbonate
- Spacer - Polypropylene (U.L. Listed Materials)

**DESIGN**
Standard and low profile lenses with fresnel rings and striated lines. CLR 301 Low Profile Lens is available without fresnel rings.

**MOUNTING**
Mounts through front of panel. Mounting holes should be deburred but not chamfered.
- 3mm (SML 190, SMB 200) mounts in a .171” ± .002” (.434mm) hole on 1/4” centers. Panel thickness for SML 190, 1/32” to 1/16”; SMB 200, 1/16” to 1/8”; 5mm (CLF 280, CLB 300, CLR 301) mounts in a .250” ± .002” (.635mm) hole on 3/8” centers. Panel thickness for CLF 280, 1/16” to 1/8”; CLB 300 and CLR 301, 1/32” to 1/4”; for panels less than 3/16”, use SPC 125 spacer.
- Lens retaining ring - available for added security (RNG 190, 3mm & RNG 268, 5mm).

**VISIBILITY**
CLIPLITE® lenses produce up to 180 degrees of viewing angle using standard 3mm and 5mm LEDs.

**BRIGHTNESS**
The CLIPLITE® lens utilizes striated lines and fresnel rings to increase apparent brightness up to 125% and viewing angle up to 180 degrees with either diffused or nondiffused LEDs. A low profile lens without rings or lines is available for direct sunlight applications.

**PROTECTION**
CLIPLITE® lenses help prevent IC failures caused by electrostatic discharge (ESD). Simply walking across a carpet can generate 10,000 volts. Introduction of this ESD through an exposed panel mounted LED is capable of damaging or destroying a semiconductor. A CLIPLITE® mounted LED helps guard components from ESD up to 16kV while affording the LED physical protection.

**INSTALLATION**
CLIPLITE®, standard or low profile, requires no assembly tools; just snap into a panel opening and insert LED. Cost effective operation is complete in only 6 seconds.

**ORDERING CODES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COLOR</th>
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<tbody>
<tr>
<td>SML 190 (3mm) Std. Hgt.</td>
<td>RTP Red Transparent</td>
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<tr>
<td>SMB 200 (3mm) L/Profile</td>
<td>ATP Amber Transparent</td>
</tr>
<tr>
<td>CLF 280 (5mm) Std. Hgt.</td>
<td>GTP Green Transparent</td>
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<tr>
<td>CLB 300 (5mm) L/Profile</td>
<td>BTP Blue Transparent</td>
</tr>
<tr>
<td>CLR 301 (5mm) L/P Plain</td>
<td>YTP Yellow Transparent</td>
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<tr>
<td>SPC 125 (Spacer for CLB 300 and CLR 301)</td>
<td>CTP Clear Transparent</td>
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</tbody>
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**RECOMMENDED LEDs**

- **3mm**
  - CLF 280 (5mm)
- **5mm**
  - CLB 300 (5mm) L/Profile
  - CLR 301 (5mm) L/P Plain
  - SPC 125 (Spacer for CLB 300 and CLR 301)

**OUTLINE DRAWING**

- SML 190 (3mm)
- CLF 280 (5mm)
- SMB 200 (3mm)
- CLB 300/CLR 301 (5mm)
- SPC 125 (5mm)