Evolve™ LED Roadway Lighting
Security Light (E2SA)
Product Features
GE Roadway Lighting systems have been recognized for the highest quality and reliability in Outdoor, Utility, DOT and infrastructure lighting applications. The Evolve™ LED Security Light provides energy efficiency in a robust fixture built to withstand even the harshest elements. GE’s advanced optical design offers various photometric options to meet your lighting requirements.

Applications
- Designed for outdoor work yards, roadside commercial establishments, suburban developments, rural areas.

Housing
- Die-cast aluminum hood

LED & Optical Assembly
- Structured LED arrays for optimized type 3 and type 5 square distributions
- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency
- Utilizes high brightness LEDs, 70CRI typical at 4000K and 5000K
- LM-79 test and reports are performed in accordance with IESNA standards

Lumen Maintenance
- System rating is calculated at L70(8K) ≥ 100,000h at fixture Ta = 25C per IESNA TM-21

Ratings
- UL/cUL listed, suitable for wet locations per UL 1598.
- UL 8750 LED equipment in Lighting Products.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Vibration rating at 1.5G (min) per ANSI C136.31-2010.
- Photo Control/Socket includes ANSI Twist Lock per ANSI C136.10 for PE function options 2, 4, and 5.
- Driver Rated Life >=100,000 hrs at 70C case temperature.
- DLC listed.

Mounting
- Slipfitter is adjustable for 1-1/4 in. to 2 in. pipe
- Mounting Hardware Kit
  – (1) 5/8 x 10 Throughbolt and Nut (15.9mm x 254mm)
  – (2) 3/8 x 3 Lag Screws (9.5mm x 76mm)

Finish
- Cast aluminum

Electrical
- 120-277 volt.
- System power factor is >90% and THD <20%
- Class “A” Sound rating.
- Surge Protection per ANSI C136.2-2014
  – Standard: 6kV/3kA “Basic” (w/extended C62.41.2 Combination Wave capacity of 120 events)
  – Optional: 10kV/5kA “Enhanced”
- EMI: Title 47 CFR 15 Class A.
### Ordering Number Logic

**Evolve™ LED Security Light (E2SA)**

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>OPTICAL CODE</th>
<th>PHOTOMETRIC TYPE</th>
<th>LED COLOR TEMP</th>
<th>PE FUNCTION</th>
<th>MOUNTING</th>
<th>POWER LEADS</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2SA</td>
<td>A1</td>
<td>A3</td>
<td>4000K</td>
<td>PE Rec.*</td>
<td>None</td>
<td>3 ft #14 Leads</td>
<td>Secondary Enhanced Surge Protection (10kV/5kA)*</td>
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<tr>
<td>E2SA</td>
<td>A1</td>
<td>A5</td>
<td>5000K</td>
<td>PE Rec. with Shorting Cap*</td>
<td>None</td>
<td>6 ft #10 Leads</td>
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<tr>
<td>E2SA</td>
<td>B1</td>
<td>A1</td>
<td>5600</td>
<td>PE Rec. with Control*</td>
<td>None</td>
<td>6 ft #10 Leads</td>
<td></td>
</tr>
<tr>
<td>E2SA</td>
<td>B1</td>
<td>A5</td>
<td>5600</td>
<td>PE Rec. with Control*</td>
<td>None</td>
<td>6 ft #10 Leads</td>
<td></td>
</tr>
</tbody>
</table>

* Contact manufacturer for availability.
Photometrics
Evolve™ LED Security Light (E2SA)

E2SA
Asymmetric
(B1A3)
5,600 Lumens
4000K
E2SA_B1A3140.ies

E2SA
Symmetric Square
(B1A5)
5,600 Lumens
4000K
E2SA_B1A5140.ies

E2SA
Asymmetric
(B1B3)
5,200 Lumens
4000K
E2SA_B1B3140.ies

E2SA
Symmetric Square
(B1B5)
5,200 Lumens
4000K
E2SA_B1B5140.ies
Product Dimensions

Evolve™ LED Security Light (E2SA)

- **Approximate Net Weight**: 8.10 lbs
- **Long 24 in. (610 mm) Mounting Bracket**: 16 lbs (7.3 kgs)
- **Effective Projected Area**: 1.37 sq. ft. max. (0.1 sq. M max.)
- **Suggested Mounting Height**: 12-25 ft. (4-8 M)