

# EVOLVE

## E2SC Security Light LED Roadway Lighting



Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

The **Evolve**® LED Security Light provides energy efficiency in a rugged, easy to install, light weight fixture. Current's advanced optical design offers Type III/IV<sup>1</sup> and Type V photometry with the versatility of a field installable refractor option to meet your lighting requirements.

### CONSTRUCTION

**Housing:** Aluminum die cast enclosure  
**Lens:** Impact resistant tempered glass (*non refractor version*)  
**Weight:** 8.5 lbs (3.8 kgs) without mounting bracket

### OPTICAL SYSTEM

**Lumens:** 3,730 - 6,270 lm  
**Distribution:** Type III/IV and Type V  
**Efficacy:** 100-128 LPW  
**CCT:** 2700K, 3000K, 4000K, 5000K  
**CRI:** ≥70

### ELECTRICAL

**Input Voltage:** 120-277V (no 347-480V)  
**Input Frequency:** 50/60Hz  
**Power Factor:** ≥ 90 at rated watts  
**Total Harmonic Distortion:** ≤ 20% at rated watts

### SURGE PROTECTION\*

| Standard | Optional                     |
|----------|------------------------------|
| 6kV/3kA  | Enhanced 10kV/5kA (R Option) |

\*Per ANSI C136.2-2018

### WARRANTY

5 Year (Standard)

### LUMEN MAINTENANCE

Projected Lxx per IES TM-21 at 25°C

| LXX(10K) @ Hours |             |           |           |           |
|------------------|-------------|-----------|-----------|-----------|
| Lumen Codes      | Lumen Codes | 25,000 HR | 50,000 HR | 60,000 HR |
| 04               | C4          | L95       | L93       | L92       |
| 05               | C4          | L93       | L88       | L86       |
| 06               | C4          | L83       | L70       | L65       |
| 04               | V4          | L95       | L92       | L90       |
| 05               | V4          | L94       | L90       | L89       |
| 06               | V4          | L91       | L85       | L83       |

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements.

### AMBIENT TEMPERATURE FACTOR

| Ambient Temp (°C) | Initial Flux Factor | Ambient Temp (°C) | Initial Flux Factor |
|-------------------|---------------------|-------------------|---------------------|
| 10                | 1.02                | 30                | 0.99                |
| 20                | 1.01                | 40                | 0.98                |
| 25                | 1.00                |                   |                     |

### RATINGS

**Operating Temperature:** -40°C to 40°C  
**Vibration:** 3G per ANSI C136.31-2010  
**LM-79:** Testing in accordance with IES Standards

### CONTROLS

**Dimming:** Standard - 0-10V  
**Sensors:** Photo Electric Sensors (PE) available  
LightGrid and Daintree Compatible



Not all product variations listed on this page are DLC qualified. Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualifications.

## E2SC 0

| PROD. ID                    | VOLTAGE            | LUMENS    | DISTRIBUTION                         | REFRACTOR                              | CCT               | CONTROLS PER ANSI C136.41  | MOUNTING                                    | POWER LEADS                | OPTIONS   |
|-----------------------------|--------------------|-----------|--------------------------------------|--|-------------------|--|---|----------------------------|---|
| <b>E</b> = Evolve           | <b>0</b> = 120-277 | <b>04</b> | <b>C4</b> = Type III/IV <sup>1</sup> | <b>N</b> = None (zero uplight)         | <b>27</b> = 2700K | <b>A</b> = 7-Pin Receptacle                                      | <b>N</b> = None                             | <b>N</b> = None            | <b>C1</b> = Captive Door                        |
| <b>2SC</b> = Security Light |                    | <b>05</b> | <b>V4</b> = Type V                   | <b>R</b> = Factory Installed Refractor | <b>30</b> = 3000K | <b>D</b> = 7-Pin Receptacle with Shorting Cap                    | <b>L</b> = Long 24 in. bracket <sup>2</sup> | <b>3</b> = 3 ft # 14 Leads | <b>L</b> = Tool-Less Entry                      |
|                             |                    | <b>06</b> |                                      |  | <b>40</b> = 4000K | <b>E</b> = 7-Pin Receptacle with Long Life Non-Dimming PE in Box |   | <b>5</b> = 5 ft # 14 Leads | <b>R</b> = Enhanced Surge Protection (10Kv/5Ka) |
|                             |                    |           |                                      |  | <b>50</b> = 5000K |  |   | <b>8</b> = 8 ft # 14 Leads | <b>XXX</b> = Special Options                    |

<sup>1</sup> See ISO Plot page for the typical C4 distribution - this optic is designed to address a Roadway Photometric Application and is a Type III without the refractor, and Type IV with a refractor.

<sup>2</sup> For Mounting on Wood Pole

| LUMEN OUTPUT | DISTRIBUTION | REFRACTOR | LUMENS       |       |       | WATTAGE | BUG RATINGS |              |          |
|--------------|--------------|-----------|--------------|-------|-------|---------|-------------|--------------|----------|
|              |              |           | 5000K/ 4000K | 3000K | 2700K |         | 120-277V    | 5000K/ 4000K | 3000K    |
| 04           | C4           | N         | 4000         | 3920  | 3810  | 32      | B1-U0-G2    | B1-U0-G2     | B1-U0-G2 |
|              | V4           | N         | 4030         | 3940  | 3840  |         | B2-U0-G0    | B2-U0-G0     | B2-U0-G0 |
|              | C4           | R         | 3920         | 3840  | 3730  |         | B1-U3-G2    | B1-U2-G2     | B1-U2-G2 |
|              | V4           | R         | 4090         | 4000  | 3900  |         | B2-U2-G1    | B2-U2-G1     | B2-U2-G1 |
| 05           | C4           | N         | 5000         | 4900  | 4760  | 43      | B1-U0-G2    | B1-U0-G2     | B1-U0-G2 |
|              | V4           | N         | 5200         | 5090  | 4950  |         | B2-U0-G1    | B2-U0-G1     | B2-U0-G1 |
|              | C4           | R         | 4900         | 4800  | 4660  |         | B1-U3-G3    | B1-U3-G3     | B1-U3-G2 |
|              | V4           | R         | 5280         | 5170  | 5020  |         | B2-U2-G1    | B2-U2-G1     | B2-U2-G1 |
| 06           | C4           | N         | 5885         | 5770  | 5610  | 55      | B1-U0-G2    | B1-U0-G2     | B1-U0-G2 |
|              | V4           | N         | 6180         | 6060  | 5890  |         | B2-U0-G1    | B2-U0-G1     | B2-U0-G1 |
|              | C4           | R         | 5760         | 5650  | 5490  |         | B1-U3-G3    | B1-U3-G3     | B1-U3-G3 |
|              | V4           | R         | 6270         | 6150  | 5980  |         | B2-U3-G1    | B2-U3-G1     | B2-U3-G1 |

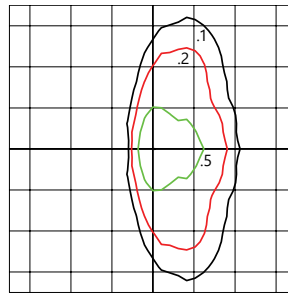
For additional information on E2SC IES files, please click one of the following links:

[E2SC IES Files](#)

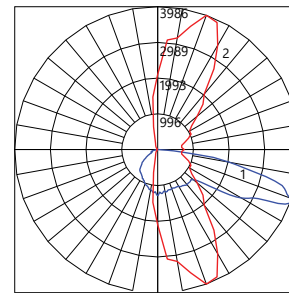


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**E2SC**  
Type III - No Refractor  
(05C4N40)  
  
5,000 Lumens  
4000K  
E2SC\_05C4N40\_\_IES

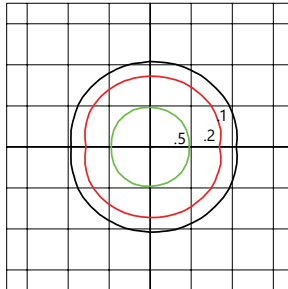


- Mounting Height at 30'
- Initial Footcandle Values at Grade

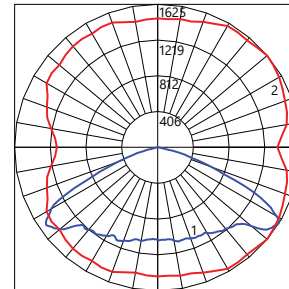


- Vertical plane through horizontal angle of Max. Cd at 70°
- Horizontal cone through vertical angle of Max. Cd at 68°

**E2SC**  
Type V - No Refractor  
(05V4N40)  
  
5,200 Lumens  
4000K  
E2SC\_05V4N40\_\_IES

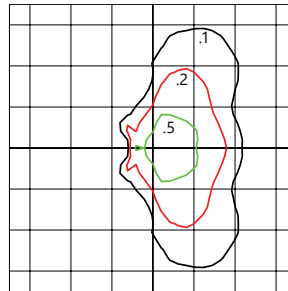


- Mounting Height at 30'
- Initial Footcandle Values at Grade

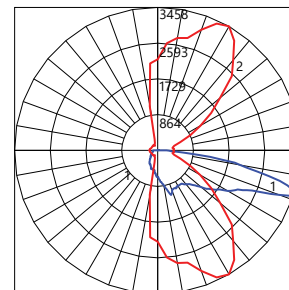


- Vertical plane through horizontal angle of Max. Cd at 58°
- Horizontal cone through vertical angle of Max. Cd at 40°

**E2SC**  
Type IV - W/Refractor  
(05C4R40)  
  
4,900 Lumens  
4000K  
E2SC\_05C4R40\_\_IES

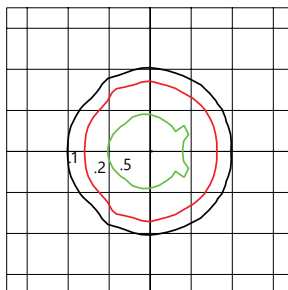


- Mounting Height at 30'
- Initial Footcandle Values at Grade

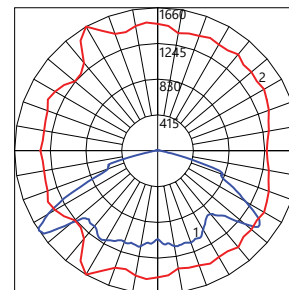


- Vertical plane through horizontal angle of Max. Cd at 73°
- Horizontal cone through vertical angle of Max. Cd at 60°

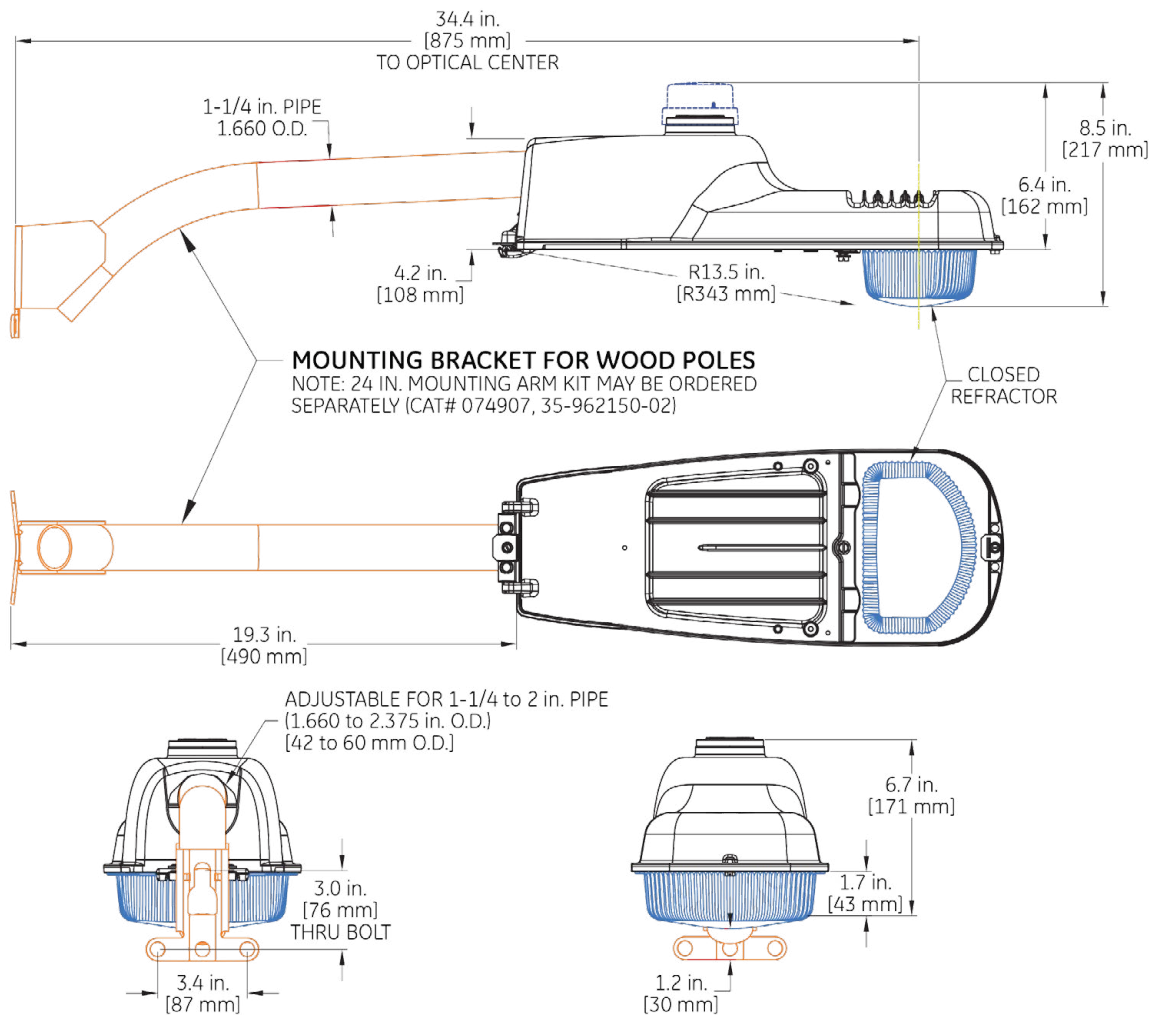
**E2SC**  
Type V - W/Refractor  
(05V4R40)  
  
5,280 Lumens  
4000K  
E2SC\_05V4R40\_\_IES



- Mounting Height at 30'
- Initial Footcandle Values at Grade



- Vertical plane through horizontal angle of Max. Cd at 56°
- Horizontal cone through vertical angle of Max. Cd at 120°



### MOUNTING

- Suggested Mounting Height: 12-28 ft. (4-8 M)
- Adjustable for 1.25 to 2 in. nominal mounting pipe
- Integral diecast mounting pipe stop
- Slipfitter with +/- 5 degrees of leveling adjustment

### EFFECTIVE PROJECTED AREA

- 0.38 sq ft.

### WEIGHT

- Approximate net weight: 8.5 lbs (3.8 kgs) without mounting bracket.
- With 24 in. (610 mm) Mounting Bracket: 16 lbs (7.3 kgs)

### ACCESSORIES

| SAP Number | Part Number  | Description                            |
|------------|--------------|--|
| 74907      | 35-962150-02 | 24 in. Mounting Arm Kit for Wood Poles |
| 93122446   | ESR-E2SC-A   | Field Installable Refractor Kit        |

### NETWORKED LIGHTING CONTROL



Current's [LightGrid™ Outdoor Lighting Control System](#) is designed for Street and Roadway Applications. It enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web enabled Central Management System.