GE Evolve™
LED Roadway Lighting
ERLC

current
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The Evolve LED Roadway ERLC Luminaire is optimized for customers requiring a LED solution for local, collector and major roadways. GE’s unique reflective optics are designed to optimize application efficiency and minimize glare. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life. This reliable unit has a 100,000 hour design life, significantly reducing maintenance needs and expense over the life of the fixture. This efficient solution lowers energy consumption compared to a traditional HID fixture for additional operating cost savings.

Features:
- Optimized roadway photometric distributions
- Evolve light engine consisting of reflective technology designed to optimize application efficiency and minimize glare
- Die-Cast aluminum housing
- Light weight: 8.5 lbs
- System LPW performance: 102-133 LPW
- 10Kv/5kA surge protection standard
- Tool-Less option

Applications:
- Local Roadways
- Collector Roadways
- Major Roadway/Streets

Compatible with LightGrid™ Outdoor Wireless Control System

To learn more about GE Evolve LED Roadway ERLC Lighting, go to: www.currentbyge.com
Typical Specifications: ERLC

LED & Optical
- **Output Range:** 1,860 - 6,350 lm
- **Photometric Options:** Type II Narrow, Type II/III*, Type III, Type V.
- **System Efficacy:** 102-133
- **CCT:** 2700K, 3000K, 4000K, 5000K
  - High Brightness LED’s @ 70 CRI Minimum

Lumen Maintenance Tables
Projected Lxx per IES TM-21 at 25°C for reference:

<table>
<thead>
<tr>
<th>ERLC Lumen Output Codes</th>
<th>Distributions</th>
<th>Lxx@10K@Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>25,000 HR</td>
</tr>
<tr>
<td>02, 03, 04</td>
<td>A4, B4, C4</td>
<td>L96</td>
</tr>
<tr>
<td>05</td>
<td>A4, B4, C4</td>
<td>L94</td>
</tr>
<tr>
<td>06</td>
<td>A4, B4, C4</td>
<td>L90</td>
</tr>
<tr>
<td>02, 03, 04, 05</td>
<td>V4</td>
<td>L96</td>
</tr>
<tr>
<td>06</td>
<td>V4</td>
<td>L94</td>
</tr>
</tbody>
</table>

Note: Projected Lxx based on LM80 10,000 hour testing. DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

Electrical
- **Input Voltage:** 120-277 volt. (no 347-480V)
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)***: > 90%
- **Total Harmonic Distortion (THD)***: <20%
  - *System PF and THD specified at rated watts

Ratings
- **Surge Protection:** Per ANSI C136.2-2015
  - 10kV/5kA “Enhanced: (40 Strikes)” - Standard on ERLC (02 - 06)
- **Safety:** UL/cUL Listed. UL 1598 listed, suitable for wet locations.
- **Environmental:** Compliant with the materials restrictions of RoHS.
- **EMI:** Title 47 CFR Part 15 Class A
- **Vibration:** 3G per ANSI C136.31-2010
- **LM-79 testing in accordance with IESNA Standards**
- **Ingress Rating:** IP66 optical enclosure rated per ANSI C136.25-2013
- **Impact:** IK08 Lens

**Operating Temperature:**

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>LUMEN OUTPUT</th>
<th>AMBIENT READING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERLC</td>
<td>02-06</td>
<td>-40°C to 50°C</td>
</tr>
</tbody>
</table>

Construction & Finish
- **Housing:**
  - Aluminum Die Cast Enclosure
  - Casting-integral heat sink for maximum heat transfer
- **Lensing:** Impact resistant tempered glass, standard
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
  - Standard Colors: Gray, Black, Dark Bronze & White
  - RAL & custom colors available
  - Optional coastal finish available.
- **Weight:** 8.5 Lbs

Warranty
- **System Warranty:** 5 Year Standard, 10 Year Optional

Controls
- **Dimming:**
  - Standard: 0-10V; Optional: DALI (Option U)
- **Sensors:**
  - Photo electric sensors (PE) available.
  - LightGrid™ compatible

Mounting
- **Adjustable for 1.25 to 2 in. nominal mounting pipe**
- **Integral diecast mounting pipe stop**
- **Slipfitter with +/- 5 degrees of leveling adjustment**

Suggested HID Replacement Lumen Levels
- ~2,000–6,000 lumens to replace 50-100W HPS Cobra-head

Note: Actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

**The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is to do a lighting layout.**

^ See Page 5 for the typical ISO Plot of the B4 distribution. This optic is designed to address a Roadway Photometric Application and may classify as Type II or III.
### GE Evolve™
#### LED Roadway Lighting

**ERLC**

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>VOLTS</th>
<th>LUMEN OUTPUT</th>
<th>DISTRIBUTION**</th>
<th>CTRLS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>E = Evolve</td>
<td>120-240V</td>
<td><strong>02</strong></td>
<td>A = Type II Narrow</td>
<td>27 = 2700K</td>
<td><em>Not available with fusing.</em></td>
</tr>
<tr>
<td>R = Roadway</td>
<td>277V</td>
<td><strong>03</strong></td>
<td>B = Type III</td>
<td>30 = 3000K</td>
<td></td>
</tr>
<tr>
<td>L = Local</td>
<td>208V</td>
<td><strong>04</strong></td>
<td>C = Type IV</td>
<td>40 = 4000K</td>
<td></td>
</tr>
<tr>
<td>C = Compact</td>
<td>200V</td>
<td><strong>06</strong></td>
<td>D = Type V</td>
<td>50 = 5000K</td>
<td></td>
</tr>
</tbody>
</table>

### Lumen Output Distribution

<table>
<thead>
<tr>
<th>Options</th>
<th>Initial Lumen</th>
<th>Typical System Wattage</th>
<th>IES File Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>02</strong></td>
<td>1960</td>
<td>1920</td>
<td>1860</td>
</tr>
<tr>
<td><strong>03</strong></td>
<td>2500</td>
<td>2500</td>
<td>2400</td>
</tr>
<tr>
<td><strong>04</strong></td>
<td>3500</td>
<td>3200</td>
<td>3000</td>
</tr>
<tr>
<td><strong>05</strong></td>
<td>5000</td>
<td>4900</td>
<td>4760</td>
</tr>
<tr>
<td><strong>06</strong></td>
<td>6500</td>
<td>6200</td>
<td>6050</td>
</tr>
</tbody>
</table>

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Project name _________________
Date _________________
Type ________________________
**Photometrics:**
**Evolve™ LED Streetlight (ERLC)**

**ERLC**
Type II Narrow  
(05A440)

4,900 Lumens  
4000K  
ERLC_05A440___IES

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**ERLC**
Type II/III^  
(05B440)

5,000 Lumens  
4000K  
ERLC_05B440___IES

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**ERLC**
Type III  
(05C440)

5,000 Lumens  
4000K  
ERLC_05C440___IES

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**ERLC**
Type V  
(05V440)

5,200 Lumens  
4000K  
ERLC_05V440___IES
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Product Dimensions:
Evolve™ LED Streetlight (ERLC)

• Approximate net weight: 8.5 lbs (3.8 kgs)
  Contact manufacturer for specific configuration weight.
• Effective Projected Area (EPA): 0.3 sq ft max (0.029 sq m)