GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

The Evolve LED Roadway 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
- 70 CRI at 2700K, 3000K and 4000K typical.
- -40°C to 50°C UL Ambient Typical.
- ULOR = 0 (zero uplight)
- Designed & Assembled in USA

Applications:

- Local Roadways
- Collector Roadways
- Major Roadway/Streets

Compatible with LightGrid™ Outdoor Wireless Control System

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

Subject to Change
Typical Specifications: ERL1-ERLH-ERL2

**LED & Optical**
- **Output Range:** 1900 – 30000 lm
- **Photometric Options:** Type II Narrow, Type II Wide, Type III, Type IV
- **System Efficacy:** 100 - 145 LPW
- **CCT:** 2700K, 3000K, 4000K; High brightness LEDs @ 70 CRI
- **Lumen Maintenance Tables:**
  
<table>
<thead>
<tr>
<th>OPTICAL CODES</th>
<th>25,000 HR</th>
<th>50,000 HR</th>
<th>100,000 HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>02, 03, 04, 05, 06</td>
<td>L96</td>
<td>L95</td>
<td>L91</td>
</tr>
<tr>
<td>07, 08, 09</td>
<td>L95</td>
<td>L91</td>
<td>L84</td>
</tr>
<tr>
<td>10</td>
<td>L89</td>
<td>L80</td>
<td>L64</td>
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</table>
  
  Note: Projected Lxx based on LMB0 10,000 hour testing. DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

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<tr>
<th>OPTICAL CODES</th>
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<th>100,000 HR</th>
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<tbody>
<tr>
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<td>L94</td>
<td>L90</td>
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<td>13, 14</td>
<td>L95</td>
<td>L92</td>
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<td>15, 16</td>
<td>L93</td>
<td>L89</td>
<td>L81</td>
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<table>
<thead>
<tr>
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<th>25,000 HR</th>
<th>50,000 HR</th>
<th>100,000 HR</th>
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</thead>
<tbody>
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<td>25, 27, 28</td>
<td>L94</td>
<td>L90</td>
<td>L82</td>
</tr>
<tr>
<td>30</td>
<td>L93</td>
<td>L88</td>
<td>L79</td>
</tr>
</tbody>
</table>

Note: Projected Lxx based on LMB0 10,000 hour testing. DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

**Construction & Finish**
- **Housing:**
  - Die Cast Enclosure
  - Casting-integral heat sink for maximum heat transfer
- **Lensing:** Corrosion resistant tempered glass, standard
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
  - Standard Colors: Dark Bronze, Black, & Gray
  - RAL & custom colors available
  - Optional coastal finish available.
- **Weight:** 12.4lbs (5.6kg) – 24lbs (10.9kg)

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

**Controls**
- **Dimming:**
  - Standard: 0-10V; Optional: DALI (120-277V Only)
- **Sensors:**
  - Photo electric sensors (PE) available.
  - LightGrid™ compatible

**Mounting**
- **Slipfitter with +/- 5 degree of adjustment for leveling.**
- **Integral die cast mounting pipe stop.**
- **Adjustable for 1.25 in. or 2 in. mounting pipe.**

**Suggested HID Replacement Lumen Levels**
- ~4,000–5,000 lumens to replace 100W HPS Cobra-head
- ~7,000–8,800 lumens to replace 150W HPS Cobra-head
- ~8,500–11,500 lumens to replace 200W HPS Cobra-head
- ~11,500–14,000 lumens to replace 250W HPS Cobra-head
- ~21,000–30,000 lumens to replace 400W HPS Cobra-head

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

**Specifications**
- **Operating Temperature:**
  - ERL1: 02-10, -40°C to 50°C
  - ERLH: 10-11, -40°C to 50°C
  - ERL2: 16-28, -40°C to 50°C
  - ERL2: 30, -40°C to 45°C

Delayed start may be experienced < -35°C

**Electrical**
- **Input Voltage:** 120-277 volt and 347-480 volt
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)**: >90%
- **Total Harmonic Distortion (THD)**: <20%

* Power factor and THD are tested and specified at 120V input and maximum load conditions. PF>0.88 and THD<26% for 347/480V supply applicable only to the ERL1H03 version.

**Surge Protection:** per ANSI C136.2-2015:
- **(Driver Internal):**
  - 6kV/3kA “Basic: (120 Strikes)” - Standard on ERL1 (02-06)
  - 10kV/5kA “Enhanced: (40 Strikes)” - Standard on ERL1 (07-10), ERLH, ERL2
- **(Additional Separate Secondary SPD):**
  - 10kV/5kA “Enhanced: (40 Strikes) - Option “R”
  - 20kV/10kA “Elevated” (40 Strikes) - Option “T”
- **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**
- **Std. Optical enclosure rated per ANSI C136.25-2009:**
  - ERL1/ERLH/ERL2 = IP65, Optional: IP66
# GE Evolve™
## LED Roadway Lighting
### ERL1-ERLH-ERL2

<table>
<thead>
<tr>
<th>PROD_ID</th>
<th>VOLTAGE</th>
<th>LUMEN OUTPUT</th>
<th>DISTRIBUTION**</th>
<th>CCT</th>
<th>CONTROLS</th>
<th>COLOR</th>
<th>OPTIONS</th>
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</thead>
<tbody>
<tr>
<td>E = Evolve</td>
<td>R = Roadway</td>
<td>L = Local</td>
<td>1 = Single Module</td>
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<tr>
<td>0 = 120-277V</td>
<td>1 = 120</td>
<td>2 = 208</td>
<td>3 = 240</td>
<td>4 = 277</td>
<td>5 = 480</td>
<td>6 = 347-480*</td>
<td></td>
</tr>
<tr>
<td>07*</td>
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<td>4000</td>
<td>3900</td>
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<td>9600</td>
<td>9250</td>
<td>97</td>
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<td></td>
</tr>
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</table>

** A = Type II Narrow
B = Type II Wide
C = Type III
D = Type IV

* Not available with Fusing. Must choose discrete voltage with F option.

** See Table

*Nominal IES Type classing subject to typical variation, individual units may differ.

### Output System Wattage
- **Typical**
- **Initial Lumen**
- **Recommended**

### Color
- Gray
- Black
- Dark Bronze

### Discrete Voltage

#### 120-277V
- 347-480*

#### 277V
- 4000K
- 3000K
- 2700K

#### 480V
- 3400K

### Dimming Controls
- 0-10V standard unless DALI option
- Discrete

### Project Name
- _________________

### Type
- ________________________

### Date
- ________________________

Subject to Change
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL1)

**ERL1**
Type II Narrow (02A3)
2,000 Lumens
4000K
ERL1_02A340_.IES

Grid Distance in Units of Mounting Height
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 67°

**ERL1**
Type II Narrow (10A3)
10,000 Lumens
4000K
ERL1_10A340_.IES

Grid Distance in Units of Mounting Height
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 67°

**ERL1**
Type II Wide (02B3)
2,000 Lumens
4000K
ERL1_02B340_.IES

Grid Distance in Units of Mounting Height
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 69°

**ERL1**
Type II Wide (10B3)
10,000 Lumens
4000K
ERL1_10B340_.IES

Grid Distance in Units of Mounting Height
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 69°

Subject to Change
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL1)

**ERL1**
Type III (02C3)
2,000 Lumens
4000K
ERL1_02C340___.IES

**ERL1**
Type III (10C3)
10,000 Lumens
4000K
ERL1_10C340___.IES

**ERL1**
Type IV (02D3)
2,000 Lumens
4000K
ERL1_02D340___.IES

**ERL1**
Type IV (10D3)
10,000 Lumens
4000K
ERL1_10D340___.IES

Grid Distance in Units of Mounting Height at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at 75°
— Vertical plane through horizontal angle of 70°

— Vertical plane through horizontal angle of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

**AVAILABLE**
JUNE 2017

Subject to Change
## GE Evolve™
### LED Roadway Lighting
### ERL1-ERLH-ERL2

**PROD. ID**
- **E** = Evolve
- **R** = Roadway
- **L** = Local
- **H** = High Output

### VOLTAGE
1. **0** = 120-277V*
2. **1** = 120
3. **2** = 208
4. **3** = 240
5. **4** = 277
6. **5** = 480
7. **D** = 347
8. **H** = 347-480*

### OUTPUT
- **E** = Evolve
- **R** = Roadway
- **L** = Local
- **H** = High Output

### LUMEN OUTPUT

<table>
<thead>
<tr>
<th>PROD. ID</th>
<th>VOLTAGE</th>
<th>LUMEN OUTPUT</th>
<th>DISTRIBUTION</th>
<th>CCT</th>
<th>CONTROLS</th>
<th>COLOR</th>
<th>OPTIONS</th>
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<tr>
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<td>0 = 120-277V*</td>
<td>10</td>
<td>11</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>1 = 120</td>
<td>A3 = Type II Narrow</td>
<td>B3 = Type II Wide</td>
<td>C3 = Type III</td>
<td>D3 = Type IV</td>
<td>30 = 3000K</td>
<td>40 = 4000K</td>
</tr>
<tr>
<td></td>
<td>2 = 208</td>
<td>See Table</td>
<td>See Table</td>
<td>See Table</td>
<td>See Table</td>
<td>See Table</td>
<td>See Table</td>
</tr>
<tr>
<td></td>
<td>4 = 277</td>
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</tr>
<tr>
<td></td>
<td>5 = 480</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>D = 347</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>H = 347-480*</td>
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### TYPICAL LUMEN DISTRIBUTION

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<th>INITIAL LUMENS 4000K</th>
<th>TYPICAL 3000K</th>
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<td>10000</td>
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### TYPICAL SYSTEM Wattage

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<th>120-277V</th>
<th>347-480V</th>
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<tbody>
<tr>
<td>10</td>
<td>A3</td>
<td>82</td>
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<td>A3</td>
<td>96</td>
<td>97</td>
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<td>111</td>
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<td>A3</td>
<td>149</td>
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### TYPICAL 4000K 3000K

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<th>3000K</th>
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<td>11</td>
<td>A3</td>
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</tr>
<tr>
<td>16</td>
<td>A3</td>
<td>TBD</td>
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</table>

### SYSTEM Wattage 347-480V

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<td>A3</td>
<td>TBD</td>
</tr>
<tr>
<td>15</td>
<td>A3</td>
<td>TBD</td>
</tr>
<tr>
<td>16</td>
<td>A3</td>
<td>TBD</td>
</tr>
</tbody>
</table>

### NOTA:
- Dimming controls wired for 0-10V standard unless DALI option “U” requested.

### Options
- **A** = # Bolt Slipfitter †
- **B** = ANSI C136.41 7-pin with Shorting Cap
- **C** = ANSI C136.41 7-pin with non-Dimming PE Control*
- **D** = ANSI C136.41 7-pin with Non-Dimming PE Control*
- **E** = ANSI C136.41 7-pin with Shorting Cap
- **F** = Fusing
- **G** = Internal Bubble Level
- **H** = Tool-Less Entry
- **I** = IP66 Optical
- **J** = Secondary 10kV/5kA SPD
- **K** = DALI Programmable +^ |
- **L** = Coastal Finish *
- **M** = Coastal Finish *
- **N** = Coastal Finish *
- **O** = Coastal Finish *
- **P** = Coastal Finish *
- **Q** = Coastal Finish *
- **R** = Coastal Finish *
- **S** = Coastal Finish *
- **T** = Coastal Finish *
- **U** = Coastal Finish *
- **V** = Coastal Finish *
- **W** = Coastal Finish *
- **X** = Coastal Finish *
- **Y** = Coastal Finish *
- **Z** = Coastal Finish *

### Footnotes:
- † Contact manufacturer for Lead-Time.
- † “X” option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container.
- * Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time.
- ‡ Compatible with LightGrid 2.0 nodes.
- † Not available in 347V, 480V or 347-480V.

### Notes:
- Dimming controls wired for 0-10V standard unless DALI option “U” requested.

---

**Subject to Change**

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**Project name _________________________**

**Date _________________________**

**Type _________________________**

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**NOTE:** Dimming controls wired for 0-10V standard unless DALI option “U” requested.
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERLH)

**ERLH**
Type II Narrow
(10A3)
10,000 Lumens
4000K
ERLH_10A340___.IES

**ERLH**
Type II Narrow
(16A3)
16,000 Lumens
4000K
ERLH_16A340___.IES

**ERLH**
Type II Wide
(10B3)
10,000 Lumens
4000K
ERLH_10B340___.IES

**ERLH**
Type II Wide
(16B3)
16,000 Lumens
4000K
ERLH_16B340___.IES

Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°

— Vertical plane through horizontal angle of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°

Subject to Change
**GE Evolve™**
**LED Roadway Lighting**
ERL1-ERLH-ERL2

**Photometrics:**
*Evolve™ LED Streetlight (ERLH)*

**ERLH**
**Type III**
(10C3)

10,000 Lumens
4000K
ERLH_10C340___.IES

**Grid Distance in Units of Mounting Height**
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°

**ERLH**
**Type III**
(16C3)

16,000 Lumens
4000K
ERLH_16C340___.IES

**Grid Distance in Units of Mounting Height**
at 30’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°

**ERLH**
**Type IV**
(10D3)

10,000 Lumens
4000K
ERLH_10D340___.IES

**AVAILABLE**
**JUNE 2017**

Grid Distance in Units of Mounting Height
at xx’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

**ERLH**
**Type IV**
(16D3)

16,000 Lumens
4000K
ERLH_16D340___.IES

**AVAILABLE**
**JUNE 2017**

Grid Distance in Units of Mounting Height
at xx’ Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

Subject to Change
## ERL2 LED Roadway Lighting

**GE Evolve**

**OUTPUT DISTRIBUTION**

- 4000K
- 3000K
- 277V
- 480V

**2 = Double Module**

**L = Local**

**R = Evolve**

### Table: Lumen Output and Voltage Options

<table>
<thead>
<tr>
<th>PROD. ID</th>
<th>VOLTAGE</th>
<th>LUMEN OUTPUT</th>
<th>DISTRIBUTION</th>
<th>CCT</th>
<th>CONTROLS</th>
<th>COLOR</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
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<td>120-277V</td>
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<td>A3 = Type II Narrow</td>
<td>30</td>
<td>30000</td>
<td>GRAY</td>
<td>A = A Bolt Slipfitter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18000</td>
<td>B3 = Type II Wide</td>
<td>30</td>
<td>30000</td>
<td>BLCK</td>
<td>F = Fusing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19000</td>
<td>C3 = Type III</td>
<td>30</td>
<td>30000</td>
<td>DKBZ</td>
<td>G = Internal Bubble</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21000</td>
<td>D3 = Type IV</td>
<td>30</td>
<td>30000</td>
<td></td>
<td>H = Tool-Less Entry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23000</td>
<td>A3 = ANSI C136.61 7-pin</td>
<td>30</td>
<td>30000</td>
<td></td>
<td>L = Secondary 10kV/10kA SPD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25000</td>
<td>B3 = ANSI C136.61 7-pin with Shorting Cap</td>
<td>30</td>
<td>30000</td>
<td>*PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>27000</td>
<td>C3 = ANSI C136.61 7-pin with Non-Dimming PE Control</td>
<td>30</td>
<td>30000</td>
<td></td>
<td>R = Secondary 20kV/10kA SPD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28000</td>
<td>D3 = ANSI C136.61 7-pin with Non-Dimming PE Control</td>
<td>30</td>
<td>30000</td>
<td></td>
<td>U = DALI Programmable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30000</td>
<td></td>
<td>30</td>
<td>30000</td>
<td></td>
<td>*Y = Coastal Finish</td>
</tr>
</tbody>
</table>

**NOTE:** Dimming controls wired for 0-10V standard unless DALI option "U" requested.

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**LED ROADWAY LIGHTING**

**Subject to Change**
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL2)

**ERL2**
Type II Narrow
(16A3)
16,000 Lumens
4000K
ERL2_16A340___IES

**ERL2**
Type II Narrow
(30A3)
30,000 Lumens
4000K
ERL2_30A340___IES

**ERL2**
Type II Wide
(16B3)
16,000 Lumens
4000K
ERL2_16B340___IES

**ERL2**
Type II Wide
(30B3)
30,000 Lumens
4000K
ERL2_30B340___IES

Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°

— Vertical plane through horizontal angle of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°

Subject to Change
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL2)

**ERL2**
Type III
(16C3)
16,000 Lumens
4000K
ERL2_16C340___IES

**ERL2**
Type III
(30C3)
30,000 Lumens
4000K
ERL2_30C340___IES

**ERL2**
Type IV
(16D3)
16,000 Lumens
4000K
ERL2_16D340___IES

**ERL2**
Type IV
(30D3)
30,000 Lumens
4000K
ERL2_30D340___IES

**AVAILABLE**
JUNE 2017

Subject to Change
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERL1)

- Approximate net weight: 15.5 lbs (7.0 kgs)
  Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERLH)

- Approximate net weight: 15.15 lbs (6.9 kgs) - 2 Bolt Slipfitter
- Approximate net weight: 15.85 lbs (7.2 kgs) - 4 Bolt Slipfitter
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERL2)

• Approximate net weight: 24.0 lbs (10.9 kgs)
  Contact manufacturer for specific configuration weight.
• Effective Projected Area (EPA): 0.57 sq ft max (0.053 sq m)

Subject to Change
Building on a reputation for quality and excellence that dates back to Edison’s first electric light bulb, GE brings an unsurpassed depth and breadth of expertise to every product. Our commitment to providing the greatest value in high technological solutions is stronger than ever. We deliver innovative options backed by the international reputation of our 130-plus years in the business.