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
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

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

<table>
<thead>
<tr>
<th>ERL1 LUMEN OUTPUT CODES</th>
<th>LXX(10K)@HOURS</th>
<th>AMBIENT READING</th>
</tr>
</thead>
<tbody>
<tr>
<td>02, 03, 04, 05, 06</td>
<td>9.15</td>
<td>-40°C to 50°C</td>
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<tr>
<td>07, 08, 09</td>
<td>9.95</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>10</td>
<td>1.84</td>
<td>-40°C to 50°C</td>
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<table>
<thead>
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<th>ERLH LUMEN OUTPUT CODES</th>
<th>LXX(10K)@HOURS</th>
<th>AMBIENT READING</th>
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<td>10, 11</td>
<td>9.7</td>
<td>-40°C to 50°C</td>
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<tr>
<td>13, 14</td>
<td>8.93</td>
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<td>15, 16</td>
<td>8.94</td>
<td>-40°C to 50°C</td>
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<table>
<thead>
<tr>
<th>ERL2 LUMEN OUTPUT CODES</th>
<th>LXX(10K)@HOURS</th>
<th>AMBIENT READING</th>
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<td>16, 18, 21, 23</td>
<td>9.65</td>
<td>-40°C to 50°C</td>
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<tr>
<td>25, 27, 28</td>
<td>9.7</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>30</td>
<td>9.53</td>
<td>-40°C to 50°C</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 and 347-480 volt
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)**: >90%
- **Total Harmonic Distortion (THD)**: <20%

*Power factor and THD tolerance exceptions: ERL1 “02” Lumen output: PF and THD within tolerances above only at 120 volt. ERL1 “03” Lumen output: @120 volt PF~0.89; @ 480 volt THD~26% ERL1 “04” Lumen output: @480 volt THD~22%

Ratings

- **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

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.

**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 do a lighting layout Utilizing AGI.**
## GE Evolve™

**LED Roadway Lighting**

ERL1-ERLH-ERL2

### Table of Lumens and System Ratings

<table>
<thead>
<tr>
<th>Product</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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<tbody>
<tr>
<td>E+</td>
<td>02</td>
<td>2000 1900 1900</td>
<td>14 N/A</td>
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<td>R+</td>
<td>03</td>
<td>3000 2900 2800</td>
<td>22 26</td>
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<td>L+</td>
<td>04</td>
<td>4000 3900 3800</td>
<td>31 36</td>
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<tr>
<td>E</td>
<td>05</td>
<td>5000 4900 4700</td>
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<td>47 52</td>
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### Notes:
- Must choose a compatible with Table 1.
- Not available with Fusing. Must choose a discrete voltage with F option.
- Nominal IES Type classing subject to typical variation, individual units may differ.
- See Table 120-277V or 480V Discrete. Not available for 347-480V or 347V discrete.
- If dimming the 03-05 lumens output using a control supplied from a source other than GE call 1-888-694-3533, then select Option 2 at the prompt for assistance.

**Special Options**
- Contact manufacturer for Lead-Time.
- PE Control Only available for 347-480V or 347V.
- *PE Control Only available for DALI Programmable.*
- **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.
- N/A within 750 ft. from the coast.
- # “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.

**Typical System Wartage**

<table>
<thead>
<tr>
<th>Typical System Wartage</th>
<th>120-277V</th>
<th>240V</th>
<th>480V</th>
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<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>200</td>
<td>6</td>
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<td>12</td>
</tr>
<tr>
<td>500</td>
<td>15</td>
<td>10</td>
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**Typical Luminous TYPICAL**

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</tr>
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**Bus Rating**

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**IES File Number**

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**Project Name**

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<th>Date</th>
<th>Type</th>
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*Note: See Table 1 for more details.*
Photometrics:
Evolve™ LED Streetlight (ERL1)

ERL1
Type II Narrow
(05A340)
5,000 Lumens
4000K
ERL1_05A340___IES

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

Vertical plane through horizontal angle of Max. Cd at 80°
Horizontal cone through vertical angle of Max. Cd at 67°

ERL1
Type II Wide
(05B340)
5,000 Lumens
4000K
ERL1_05B340___IES

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

Vertical plane through horizontal angle of Max. Cd at 75°
Horizontal cone through vertical angle of Max. Cd at 69°

ERL1
Type III
(05C340)
5,000 Lumens
4000K
ERL1_05C340___IES

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

Vertical plane through horizontal angle of Max. Cd at 75°
Horizontal cone through vertical angle of Max. Cd at 70°

ERL1
Type IV
(05D340)
5,000 Lumens
4000K
ERL1_(05D340)___.IES

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

Vertical plane through horizontal angle of Max. Cd at 55°
Horizontal cone through vertical angle of Max. Cd at 64°

ERL1
Type II Enhanced Back Light
(05E340)
5,000 Lumens
4000K
ERL1_(05E340)___.IES

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

Vertical plane through horizontal angle of Max. Cd at 75°
Horizontal cone through vertical angle of Max. Cd at 67°
**GE Evolve™ LED Roadway Lighting**

**ERL1-ERLH-ERL2**

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

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

### LUMEN OUTPUT
- A3 = Type II Narrow
- B3 = Type II Wide
- C3 = Type III
- D3 = Type IV
- E3 = Type II Enhanced Back Light

### OPTIONS
- **A** = ANSI C136.41 7-pin
- **D** = ANSI C136.41 7-pin with Shorting Cap
- **E** = ANSI C136.41 7-pin with non-Dimming PE Control.*
- **F** = Fusing
- **G** = Internal Bubble Level
- **I** = IP66 Optical
- **L** = Tool-Less Entry
- **R** = Secondary 10kV/5kA SPD
- **U** = DALI Programmable +
- **X** = Single Package
- **Y** = Coastal Finish *
- **XXX** = Special Options

### COLOR
- **GRAY** = Gray
- **BLCK** = Black
- **DKBZ** = Dark Bronze

### DISTRIBUTION
- **A3** = Type II Narrow
- **B3** = Type II Wide
- **C3** = Type III
- **D3** = Type IV
- **E3** = Type II Enhanced Back Light

### NOTES:
- *Nominal IES Type classing subject to typical variation, individual units may differ.
- *Not available with Fusing. Must choose a discrete voltage with F option.
- *Not available with Fusing. Must choose a discrete voltage with F option.
- *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.

### TYPICAL LUMEN OUTPUT DISTRIBUTION

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<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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<tbody>
<tr>
<td>E</td>
<td>R</td>
<td>L</td>
<td>H</td>
<td></td>
<td></td>
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<td></td>
</tr>
<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>D = 347</td>
<td>H = 347-480*</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>A3</td>
<td></td>
<td>D = ANSI C136.41 7-pin with Shorting Cap</td>
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</tr>
<tr>
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<td></td>
<td>B3</td>
<td></td>
<td>E = ANSI C136.41 7-pin with non-Dimming PE Control.*</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>C3</td>
<td></td>
<td>*PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete.</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td>D3</td>
<td></td>
<td>NOTE: Dimming controls wired for 0-10V standard unless DALI option &quot;U&quot; requested.</td>
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### TYPICAL SYSTEM WATTAGE

<table>
<thead>
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<th>LUMEN OUTPUT DISTRIBUTION</th>
<th>INITIAL LUMENS</th>
<th>TYPICAL SYSTEM WATTAGE 120-277V</th>
<th>TYPICAL SYSTEM WATTAGE 347-480V</th>
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<td>A3</td>
<td>10000</td>
<td>9600</td>
<td>82</td>
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<td>B3</td>
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<td>98</td>
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### IES FILE NUMBER

<table>
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<th>LUMEN OUTPUT DISTRIBUTION</th>
<th>INITIAL LUMENS</th>
<th>TYPICAL SYSTEM WATTAGE 120-277V</th>
<th>TYPICAL SYSTEM WATTAGE 347-480V</th>
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<tbody>
<tr>
<td>A3</td>
<td>10000</td>
<td>9600</td>
<td>82</td>
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<td>E3</td>
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</table>
Photometrics: Evolve™ LED Streetlight (ERLH)

**ERLH Type II Narrow**
(13A340)

13,000 Lumens
4000K
ERLH_13A340___.IES

**ERLH Type II Wide**
(13B340)

13,000 Lumens
4000K
ERLH_13B340___.IES

**ERLH Type III**
(13C340)

13,000 Lumens
4000K
ERLH_13C340___.IES

**ERLH Type IV**
13D340

13,000 Lumens
4000K
ERLH_13D340___.IES

**ERLH Type II Enhanced Back Light**
13E340

13,000 Lumens
4000K
ERLH_13E340___.IES
### 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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<tbody>
<tr>
<td>E = Evolve</td>
<td>R = Roadway</td>
<td>L = Local</td>
<td>2 = Double Module</td>
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<tr>
<td>0 = 120-277V</td>
<td>1 = 208</td>
<td>2 = 277</td>
<td>4 = 480</td>
<td>D = 367</td>
<td>M = 347-480*</td>
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<tr>
<td><strong>A3</strong> = Type II Narrow</td>
<td><strong>B3</strong> = Type II Wide</td>
<td><strong>C3</strong> = Type III</td>
<td><strong>D3</strong> = Type IV</td>
<td><strong>E3</strong> = Type II Enhanced Back Light</td>
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<tr>
<td>0 = 120-277V</td>
<td>1 = 208</td>
<td>2 = 277</td>
<td>4 = 480</td>
<td>D = 367</td>
<td>M = 347-480*</td>
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<tr>
<td><strong>A3</strong> = ANSI C136.4-7-pin</td>
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<td><strong>C3</strong> = ANSI C136.4-8-pin with non-Dimming PFC Control</td>
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<tr>
<td>*Not available with Fusing. Must choose a discrete voltage with F option.</td>
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<td>*Nominal IES Type classing subject to typical variation, individual units may differ.</td>
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<td><strong>120-277V</strong></td>
<td><strong>347-480V</strong></td>
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</table>

**GRAY** = Gray
**BLACK** = Black
**DBRZ** = Dark Bronze
**A** = A Bolt Slipfitter
**F** = Fusion
**G** = Internal Bubble Level
**F** = LED Optical
**I** = Tool-Less Entry
**R** = Secondary 10kV/5kA SPD
**U** = DALI Programmable
**V** = Coastal Finish
**XXX** = Special Options

*Contact manufacturer for Lead-Time.*
*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.*

![Image](https://via.placeholder.com/150)

**OPTIONS**

- **DISCRETE**
- **UL**
- **E**
- **CCT**
- **COLOR**
- **IP65** Optical
- **347-480V**

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

**NOTE:** Dimming controls wired for 0-10V standard unless DALI option "U" requested.
Photometrics:
Evolve™ LED Streetlight (ERL2)

ERL2
Type II Narrow (23A340)
23,000 Lumens
4000K
ERL2_23A340___.IES

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

-- Vertical plane through horizontal angle of Max. Cd at 80°
-- Horizontal cone through vertical angle of Max. Cd at 69°

ERL2
Type II Wide (23B340)
23,000 Lumens
4000K
ERL2_23B340___.IES

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

-- Vertical plane through horizontal angle of Max. Cd at 75°
-- Horizontal cone through vertical angle of Max. Cd at 72°

ERL2
Type III (23C340)
23,000 Lumens
4000K
ERL2_23C340___.IES

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

-- Vertical plane through horizontal angle of Max. Cd at 75°
-- Horizontal cone through vertical angle of Max. Cd at 71°

ERL2
Type IV (23D340)
23,000 Lumens
4000K
ERL2_23D340___.IES

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

-- Vertical plane through horizontal angle of Max. Cd at 55°
-- Horizontal cone through vertical angle of Max. Cd at 65°

ERL2
Type II Enhanced Back Light (23E340)
23,000 Lumens
4000K
ERL2_23E340___.IES

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

-- Vertical plane through horizontal angle of Max. Cd at 75°
-- Horizontal cone through vertical angle of Max. Cd at 69°
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERL1)

- Approximate net weight: 12.4 lbs [5.6kgs] - 15.5 lbs [7.0kgs] with XFMR
- 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)

SIDE VIEW
BACK VIEW
FRONT VIEW
SIDE VIEW

ADJUSTABLE FOR 1-1/4 to 2 inch PIPE
(1.660 to 2.375 inch OD)
(42 to 60 mm OD)

Optional LightGrid Node

DATA
- 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)

DATA