Wheat Ridge Roadway Lighting Standards
20' and 30' Mounting Height LED Fixture

GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

current
powered by GE
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](http://www.currentbyge.com)
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

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>PRODUCT ID</th>
<th>LUMEN OUTPUT</th>
<th>LXX(6K)@HOURS</th>
<th>LXX(10K)@HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERL1</td>
<td>02,03,04,05,06</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERL1</td>
<td>07,08,09</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERL1</td>
<td>10</td>
<td>120</td>
<td>200</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.

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>LUMEN OUTPUT</th>
<th>LXX(6K)@HOURS</th>
<th>LXX(10K)@HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERLH</td>
<td>10, 11</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERLH</td>
<td>13, 14</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERLH</td>
<td>15, 16</td>
<td>120</td>
<td>200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>LUMEN OUTPUT</th>
<th>LXX(6K)@HOURS</th>
<th>LXX(10K)@HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERL2</td>
<td>16, 18, 19, 21, 23</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERL2</td>
<td>25, 27, 28</td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>ERL2</td>
<td>30</td>
<td>120</td>
<td>200</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%

**Surface Protection:** per ANSI C136.2-2015:
- 6kV/3kA “Basic” (120 Strikes) - Standard on ERL1 (02-06)
- 10kV/5kA “Enhanced” (40 Strikes) - Standard on ERL1 (07-10), ERLH, ERL2

<table>
<thead>
<tr>
<th>(Additional Separate Secondary SPD)</th>
<th>10kV/5kA “Enhanced” (40 Strikes)</th>
<th>Option “R”</th>
</tr>
</thead>
<tbody>
<tr>
<td>20kV/10kA “Elevated” (40 Strikes)</td>
<td>Option “T”</td>
<td></td>
</tr>
</tbody>
</table>

**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

**Construcion & Finish**
- **Housing:** — Die Cast Enclosure
- **Lens:** Casting-integral heat sink for maximum heat transfer
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- **Color:** Standard Colors: Dark Bronze, Black, & Gray
- **RAL & custom colors available**
- **Optional coastal finish available.**

**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.

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>LUMEN OUTPUT</th>
<th>AMBIENT READING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERL1</td>
<td>02-10</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL1</td>
<td>10-11</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERLH</td>
<td>13-16</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL2</td>
<td>16-28</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL2</td>
<td>30</td>
<td>-40°C to 45°C</td>
</tr>
</tbody>
</table>

**Delayed start may be experienced < -35°C**

**System Efficacy:** 100 - 145 LPW

**Lumen Maintenance Tables:**
- **Operating Temperature:**

**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**

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</tr>
</thead>
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<td>02-10</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL1</td>
<td>10-11</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERLH</td>
<td>13-16</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL2</td>
<td>16-28</td>
<td>-40°C to 50°C</td>
</tr>
<tr>
<td>ERL2</td>
<td>30</td>
<td>-40°C to 45°C</td>
</tr>
</tbody>
</table>

**Delayed start may be experienced < -35°C**

**System Efficacy:** 100 - 145 LPW

**Lumen Maintenance Tables:**
- **Operating Temperature:**

**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
## Wheat Ridge 20' Mounting Height
### LED Roadway Lighting

**GE Evolve™**

**ERL1-ERLH-ERL2**

### PROD. ID VOLTAGE LUMEN OUTPUT DISTRIBUTION* CCT CONTROLS COLOR 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>
<td>E = Evolve</td>
<td>R = Roadway</td>
<td>L = Local</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>120-277V</td>
<td>1000</td>
<td>A3 = Type II Narrow</td>
<td>8700K</td>
<td>N/A</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>03</td>
<td>120-277V</td>
<td>1000</td>
<td>B3 = Type II Wide</td>
<td>8000K</td>
<td>N/A</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>04</td>
<td>120-277V</td>
<td>1000</td>
<td>C3 = Type III</td>
<td>7000K</td>
<td>N/A</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>05</td>
<td>277V</td>
<td>1000</td>
<td>D3 = Type IV</td>
<td>6000K</td>
<td>N/A</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>

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

### LUMEN OUTPUT DISTRIBUTION INITIAL LUMENS SYSTEM WATTAGE SYSTEM WATTAGE SYSTEM WATTAGE TYPICAL TYPICAL TYPICAL 120-277V 347-480V 347-480V 120-277V 347-480V |

<table>
<thead>
<tr>
<th>SYSTEM WATTAGE</th>
<th>10000</th>
<th>20000</th>
<th>30000</th>
<th>40000</th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>120-277V</td>
<td>8000K</td>
<td>7000K</td>
<td>6000K</td>
<td>5000K</td>
<td></td>
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</table>

### BUS RATING 120-277V 347-480V 120-277V 347-480V |

<table>
<thead>
<tr>
<th>BUS RATING</th>
<th>120-277V</th>
<th>347-480V</th>
<th>120-277V</th>
<th>347-480V</th>
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</thead>
<tbody>
<tr>
<td>120-277V</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>347-480V</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
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</tr>
</tbody>
</table>

### IES FILE NUMBER 120-277V 347-480V 120-277V 347-480V |

<table>
<thead>
<tr>
<th>IES FILE NUMBER</th>
<th>120-277V</th>
<th>347-480V</th>
<th>120-277V</th>
<th>347-480V</th>
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<tbody>
<tr>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>
GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL1)

ERL1
Type II Narrow
(05A340)
5,000 Lumens
4000K
ERL1_05A340_..IES

ERL1
Type II Wide
(05B340)
5,000 Lumens
4000K
ERL1_05B340_..IES

ERL1
Type III
(05C340)
5,000 Lumens
4000K
ERL1_05C340_..IES

ERL1
Type IV
(05D340)
5,000 Lumens
4000K
ERL1_05D340_..IES

AVAILABLE JULY 2017
AVAILABLE JULY 2017
AVAILABLE JULY 2017
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>H=High Output</td>
<td>347-277V*</td>
<td>3000K</td>
<td>6</td>
<td>10</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
<tr>
<td>H=High Output</td>
<td>120-277V*</td>
<td>3000K</td>
<td>6</td>
<td>11</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
<tr>
<td>H=High Output</td>
<td>120-277V*</td>
<td>4000K</td>
<td>6</td>
<td>12</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
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<td>H=High Output</td>
<td>120-277V*</td>
<td>3000K</td>
<td>6</td>
<td>13</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
<tr>
<td>H=High Output</td>
<td>120-277V*</td>
<td>4000K</td>
<td>6</td>
<td>14</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
<tr>
<td>H=High Output</td>
<td>120-277V*</td>
<td>3000K</td>
<td>6</td>
<td>15</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
<tr>
<td>H=High Output</td>
<td>120-277V*</td>
<td>4000K</td>
<td>6</td>
<td>16</td>
<td>40</td>
<td>A</td>
<td>BLCK</td>
</tr>
</tbody>
</table>

**Notes:**
- Not available with Fusing. Must choose a discrete voltage with F option.
- *Nominal IES Type clasping subject to typical variation. Individual units may differ.
- *PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete.
- NOTE: Dimming controls wired for 0-10V standard unless DALI option "U" requested.

### System Wattage

<table>
<thead>
<tr>
<th>TYPICAL SYSTEM WATTAGE</th>
<th>4000K</th>
<th>3000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10000</td>
<td>9600</td>
</tr>
<tr>
<td>11</td>
<td>11500</td>
<td>11000</td>
</tr>
<tr>
<td>13</td>
<td>13000</td>
<td>12500</td>
</tr>
<tr>
<td>14</td>
<td>14000</td>
<td>13400</td>
</tr>
<tr>
<td>15</td>
<td>15000</td>
<td>14400</td>
</tr>
<tr>
<td>16</td>
<td>16000</td>
<td>15300</td>
</tr>
</tbody>
</table>

### Initial Luminance

<table>
<thead>
<tr>
<th>TYPICAL LUMENS</th>
<th>4000K</th>
<th>3000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10000</td>
<td>9600</td>
</tr>
<tr>
<td>11</td>
<td>11500</td>
<td>11000</td>
</tr>
<tr>
<td>13</td>
<td>13000</td>
<td>12500</td>
</tr>
<tr>
<td>14</td>
<td>14000</td>
<td>13400</td>
</tr>
<tr>
<td>15</td>
<td>15000</td>
<td>14400</td>
</tr>
<tr>
<td>16</td>
<td>16000</td>
<td>15300</td>
</tr>
</tbody>
</table>

### Color and Distribution

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

- **DISTRIBUTION:**
  - Type II Narrow
  - Type II Wide
  - Type IV
  - Type II Narrow

- **CSSI:**
  - ANSI C136.41 7-pin with Shorting Cap
  - ANSI C136.41 7-pin with non-Dimming PE Control
  - ANSI C136.41 7-pin with Fusing

### Additional Notes
- *Recommended for installations per Magna pak container.
- Std Packaging = 20 units per fixture.  Std Packaging = 20 units per Magna pak container.
- Contact manufacturer for Lead-Time.
- Compatible with LightGrid 2.0 nodes.
GE Evolve™
LED Roadway Lighting
ERL1-ERL-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL)

**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

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°

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°

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°

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

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

Available July 2017
## GE Evolve™
### LED Roadway Lighting

**ERL1-ERLH-ERL2**

### Table of Contents

<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>
<td>E = Evolve</td>
<td>R = Roadway</td>
<td>L = Local</td>
<td>2 = Double Module</td>
<td>120-277V</td>
<td>347-480V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3 = Type II Narrow</td>
<td>B3 = Type II Wide</td>
<td>C3 = Type II</td>
<td>D3 = Type IV</td>
<td>See Table</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Not available with Fusing. Must choose a discrete voltage with F option.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Discrete Voltage

- **4000K**
  - 347-480V

- **3000K**
  - 347-480V

### Distribution

- **Type II Wide**
- **Type II Narrow**
- **Type III**
- **Type IV**

### Controls

- **Standard**
- **Dimming**
- **PE Control Only**

### Color

- **Gray**
- **Black**
- **Dark Bronze**

### Options

- **4000K**
- **3000K**

### Typical Lumens

<table>
<thead>
<tr>
<th>Initial Lumens</th>
<th>Typical Lumens</th>
<th>Typical System Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000K</td>
<td>3000K</td>
<td></td>
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</tbody>
</table>

### Typical Initial Lumens

- **ERL1**
- **ERLH**
- **ERL2**

### IES File Number

- **IES**

### Table Data

<table>
<thead>
<tr>
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<th>Distribution</th>
<th>CCT</th>
<th>Controls</th>
<th>Color</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
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<td>R = Roadway</td>
<td>L = Local</td>
<td>2 = Double Module</td>
<td>120-277V</td>
<td>347-480V</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>B3 = Type II Wide</td>
<td>C3 = Type II</td>
<td>D3 = Type IV</td>
<td>See Table</td>
<td></td>
<td></td>
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<td>* Not available with Fusing. Must choose a discrete voltage with F option.</td>
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GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Photometrics:
Evolve™ LED Streetlight (ERL2)

**ERL2**
Type II Narrow
(23A340)

23,000 Lumens
4000K
ERL2_23A340____IES

**ERL2**
Type II Wide
(23B340)

23,000 Lumens
4000K
ERL2_23B340____IES

**ERL2**
Type III
(23C340)

23,000 Lumens
4000K
ERL2_23C340____IES

**ERL2**
Type IV
(23D340)

23,000 Lumens
4000K
ERL2_23D340____IES

AVAILABLE JULY 2017
AVAILABLE JULY 2017
AVAILABLE JULY 2017
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)

- 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)
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.

The GE Difference