Evolve™ LED Flood Light
N Series (EFNB)
Product Features

The next generation of the GE Evolve™ LED Flood Light is a bright solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. The Evolve LED Flood Light has a diverse portfolio of optical patterns available to maximize efficiency, highlight effectively, and beautifully illuminate a range of diverse application spaces.

Applications

- General flood applications, including, but not limited to; billboard/bulletin, spot and flag poles, building façade, and general parking.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 2G vibration level per ANSI C136.31-2010.

LED & Optical Assembly

- Photometric system utilizes GE’s advanced reflective LED optical system providing high uniformity, and excellent light distribution.
- Utilizes high brightness LEDs, 70CRI at 3000K, 4000K and 5000K.

Lumen Maintenance

- Projected L90>50,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:

<table>
<thead>
<tr>
<th>SKU</th>
<th>LXX (10K) @ HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFNB</td>
<td>25,000 HR</td>
</tr>
<tr>
<td></td>
<td>L98</td>
</tr>
</tbody>
</table>

NOTES: 1) Projected Lxx based on LM-80 (10,000 hour testing) 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

Lumen Ambient Temperature Factors:

<table>
<thead>
<tr>
<th>AMBIENT TEMPERATURE FACTORS: AMBIENT TEMPERATURE (°C)</th>
<th>INITIAL FLUX FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>1.02</td>
</tr>
<tr>
<td>20</td>
<td>1.01</td>
</tr>
<tr>
<td>25</td>
<td>1.00</td>
</tr>
<tr>
<td>30</td>
<td>0.99</td>
</tr>
<tr>
<td>40</td>
<td>0.98</td>
</tr>
<tr>
<td>50</td>
<td>0.97</td>
</tr>
</tbody>
</table>

Ratings

- UL listed, suitable for wet locations.
- Temperature rated at ~40° to 50°C.
- Compliant with the material restriction requirements of RoHS.

Mounting

Option T
- Trunnion, pre-wired with 3ft #14/3 cable.

Option K
- Knuckle Slipfitter for 1.9" to 2.38" OD Tenon, pre-wired with 24-inch (610mm) leads.

Option S
- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Option V
- Knuckle Wall Mount, pre-wired with 24-inch (610mm) leads.

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard colors: Black & Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 7-pin dimming receptacle, standard.
- ANSI photo electric sensor (PE) available for all voltages. Light Grid compatible.
- Dimming/Occupancy:
  - Wired 0-10V continuous dimming
  - DALI digital dimming. Contact manufacturer for availability.
  - Standalone motion sensor based dimming using “H” option code.
- Surge Protection per ANSI C136.2-2015.
  - 6kV/3kA “Basic” surge protection, standard.
  - 10kV/5kA “Enhanced” surge protection optional.

Accessories

- PE Accessories - See Page 3

# Ordering Number Logic

## Evolve LED Flood Light N Series (EFNB)

<table>
<thead>
<tr>
<th>E</th>
<th>F</th>
<th>N</th>
<th>PROD. ID</th>
<th>PHOTOMETRIC SERIES</th>
<th>VOLTAGE</th>
<th>OPTICAL CODE</th>
<th>LED COLOR</th>
<th>PE FUNCTION</th>
<th>MOUNTING ARM</th>
<th>COLOR</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>=</td>
<td>Evolve</td>
<td>20° Spot</td>
<td>A4</td>
<td>Asymmetric Forward</td>
<td>4,000</td>
<td>6,300</td>
<td>44</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_A4730__IES</td>
</tr>
<tr>
<td>F</td>
<td>=</td>
<td>Flood Light</td>
<td>20° Spot</td>
<td>B4</td>
<td>Asymmetric Narrow</td>
<td>4,200</td>
<td>6,500</td>
<td>58</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_B4730__IES</td>
</tr>
<tr>
<td>N</td>
<td>=</td>
<td>Housing Series</td>
<td>20° Spot</td>
<td>C4</td>
<td>Asymmetric Narrow</td>
<td>6,800</td>
<td>10,500</td>
<td>89</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_C4730__IES</td>
</tr>
<tr>
<td>M</td>
<td>=</td>
<td>Mounting</td>
<td>20° Spot</td>
<td>D4</td>
<td>Asymmetric Narrow</td>
<td>9,700</td>
<td>15,300</td>
<td>120</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_D4730__IES</td>
</tr>
<tr>
<td>1</td>
<td>=</td>
<td>None</td>
<td>20° Spot</td>
<td>E4</td>
<td>Asymmetric Narrow</td>
<td>13,600</td>
<td>22,000</td>
<td>210</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_E4730__IES</td>
</tr>
<tr>
<td>2</td>
<td>=</td>
<td>7-pin PE Receptacle</td>
<td>20° Spot</td>
<td>F4</td>
<td>Asymmetric Narrow</td>
<td>13,600</td>
<td>22,000</td>
<td>210</td>
<td>N/A</td>
<td>N/A</td>
<td>EFNB_F4730__IES</td>
</tr>
</tbody>
</table>

## Photometric Series

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-277V</td>
<td>120</td>
<td>208</td>
<td>240</td>
<td>277</td>
<td>480</td>
<td>347</td>
</tr>
</tbody>
</table>

## LED Color Temp

<table>
<thead>
<tr>
<th>3000K</th>
<th>4000K</th>
<th>5000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>58</td>
<td>89</td>
</tr>
</tbody>
</table>

## PE Function

<table>
<thead>
<tr>
<th>60</th>
<th>70</th>
<th>98</th>
<th>125</th>
</tr>
</thead>
</table>

## Mounting Arm

<table>
<thead>
<tr>
<th>100° Extra Wide Flood</th>
<th>120° Extra Wide Flood</th>
<th>150° Extra Wide Flood</th>
<th>100° Extra Wide Flood</th>
<th>120° Extra Wide Flood</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000</td>
<td>12,000</td>
<td>15,000</td>
<td>4,500</td>
<td>6,500</td>
</tr>
</tbody>
</table>

## Color

<table>
<thead>
<tr>
<th>3000K</th>
<th>4000K</th>
<th>5000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>58</td>
<td>89</td>
</tr>
</tbody>
</table>

## Options

<table>
<thead>
<tr>
<th>60</th>
<th>70</th>
<th>98</th>
<th>125</th>
</tr>
</thead>
</table>

## Accessories (to be ordered separately)

<table>
<thead>
<tr>
<th>SAP Number</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>93029277</td>
<td>PED-MV-LED-7</td>
<td>ANSI C136.41 Dimming PE, 120-277V</td>
</tr>
<tr>
<td>93029278</td>
<td>PED-347-LED-7</td>
<td>ANSI C136.41 Dimming PE, 347V</td>
</tr>
<tr>
<td>93029239</td>
<td>PED-480-LED-7</td>
<td>ANSI C136.41 Dimming PE, 480V</td>
</tr>
</tbody>
</table>

## Notes

- Dimming PE, a #14-5 cable will be supplied at length above.
- Without Dimming PE, a #14-5 cable will be supplied at length above.
- Compatible with LightGrid 2-nodes.
- Not compatible at 347-480V.
- Provided with knuckle mounting options. For trunnion, a 1/4" cable would be provided.
- External Dimming leads provided with knuckle mounting options. For trunnion, a 1/4" cable would be provided.
- # Lead wires provided with knuckle mounting options. For trunnion, a 1/4" cable would be provided.
- # Dimming option is selected without Dimming PE a #14-5 cable will be supplied at length above.
- * Not compatible at 347-480V.
Photometrics

**EFNB Type II - Asymmetric Narrow (F2)**
14,400 Lumens, 5000K (EFNB_F2750____.IES)
Fixture mounted at 0° Horizontal

**EFNB Type II - Asymmetric Narrow (A2)**
4,500 Lumens, 5000K (EFNB_A2750____.IES)
Fixture mounted at 0° Horizontal

**EFNB Type III - Asymmetric Wide (F3)**
14,700 Lumens, 5000K (EFNB_F3750____.IES)
Fixture mounted at 0° Horizontal

**EFNB Type III - Asymmetric Wide (A3)**
4,600 Lumens, 5000K (EFNB_A3750____.IES)
Fixture mounted at 0° Horizontal

**EFNB Type IV - Asymmetric Forward (F4)**
13,700 Lumens, 5000K (EFNB_F4750____.IES)
Fixture mounted at 0° Horizontal

**EFNB Type IV - Asymmetric Forward (A4)**
4,300 Lumens, 5000K (EFNB_A4750____.IES)
Fixture mounted at 0° Horizontal
Photometrics

EFNB – 20° Spot (FS)
15,900 Lumens, 5000K (EFNB_FS750____.IES)

EFNB – 20° Spot (AS)
5,000 Lumens, 5000K (EFNB_AS750____.IES)

EFNB – 80° Wide Flood (FW)
16,000 Lumens, 5000K (EFNB_FW750____.IES)

EFNB – 80° Wide Flood (AW)
5,000 Lumens, 5000K (EFNB_AW750____.IES)

EFNB – 100° Extra Wide Flood (FE)
15,600 Lumens, 5000K (EFNB_FE750____.IES)

Extra Wide Flood (AE)
4,900 Lumens, 5000K (EFNB_AE750____.IES)
Product Dimensions
Flood Light Slipfitter Mount

**ISOMETRIC VIEW**

**FRONT VIEW**

**SIDE VIEW**

**DATA**

- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.56 sq ft max (0.05 sq. m)
Product Dimensions
Flood Light Wall Mount

**ISOMETRIC VIEW**

**FRONT VIEW**

**SIDE VIEW**

**DATA**

- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.43 sq ft max (0.04 sq. m)
Product Dimensions
Flood Light Trunnion

ISOMETRIC VIEW

FRONT VIEW

SIDE VIEW

• Approximate Net Weight: 22 lbs (9.97 kgs)
• Effective Projected Area (EPA) with Trunnion Mount: 0.39 sq ft max (0.03 sq. m)

www.currentbyge.com

All trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. Current, powered by GE is a business of the General Electric Company.

© 2017 GE.

OLP3117 (Rev 01/24/17)