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>L98</th>
<th>L95</th>
<th>L90</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFNB</td>
<td>LXX (10K)@HOURS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25,000 HR</td>
<td>50,000 HR</td>
<td>100,000 HR</td>
<td></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>LUMEN 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" OD 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

**Evolve LED Flood Light N Series (EFNB)**

### Ordering Number Logic

#### TYPICAL INITIAL LUMENS

- **3000K**: 12,300
- **4000K**: 10,500
- **5000K**: 15,000

#### TYPICAL SYSTEM WATTAGE

- **120-277V**: 10,700
- **347-480V**: 12,500

#### BUG RATINGS

- **3000K**: 9,100
- **4000K**: 5,000
- **5000K**: 9,800

#### PE Options

- **LED COLOR**: 3000K, 4000K
- **CRI**: 125, 44
- **RI**: 80, 70
- **PF**: 98, 98
- **LUMENS**: 98, 44
- **VOLTAGE**: 50, 40

#### Color

- **BLACK**: Black
- **DARK BROWN**: Dark Brown
- **GRAY**: Gray
- **WHITE**: White

#### Options

- **External Dimming leads provided**: 10-10 Volt Input
- **Fusing**: Tool less Entry
- **Enhanced Surge Protection**: 120V
- **DMU Dimming**: 6 ft #14/3 Cable
- **Mounting Options**: For trunnion, a 1/4" cable would be provided
- **Compatible with LightGrid 2.0 nodes**: 1/4" cable will be supplied at length above

### Description

**PE Accessories (to be ordered separately)**

<table>
<thead>
<tr>
<th>SAP Number</th>
<th>Part Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>93029237</td>
<td>PED-MV-LED-7</td>
<td>ANSI C136.41 Dimming PE, 120-277V</td>
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<tr>
<td>93029238</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>
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

**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

16.669 in. [423 mm]

SIDE VIEW

17.779 in. [452 mm]
14.437 in. [367 MM]
1.937 in. [49 mm]

WIRING ACCESS

BOLT PATTERN

4 HOLES
0.436 in. DIA
[11 mm DIA]

2.875 in. [73 mm]
4.375 in. [111 mm]

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

DATA

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

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