Evolve™ LED Flood Lighting
EFH1
Product Features

The GE Evolve™ LED High Output Flood Light is our brightest solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. Designed to replace 250W-400W HPS and 400W-1000W Metal Halide flood lights, the EFH1 provides significant operating cost benefits over the life of each fixture with reduced energy consumption and a long rated life that virtually eliminates ongoing maintenance expenses.

Applications

- Site, area, and general lighting applications utilizing advanced LED reflective optical system.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life.
- Meets 2G vibration with knuckle mount and 3G with trunnion mount.

Optical System

- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency and minimize glare.
- LM-79 tests and reports are performed in accordance with IESNA standards.
- 70 CRI at 3000K, 4000K and 5000K typical
- NEMA Distributions: 6x5, 6x6, 7x6 and 7x7.

Mounting

Option K

- K1 = Knuckle Slipfitter for 1.9 in. - 2.3 in. OD Tenon, with wires exiting tenon.
- K2 = Knuckle Slipfitter for 1.9 in. - 2.3 in. OD Tenon, external 3ft #14/3 power cable.

Option S

- S1 = Knuckle Slipfitter for 1.9 in. - 3.0 in. (48-76mm) OD Tenon.
- S2 = Knuckle Slipfitter for 1.9 in. - 3.0 in. (48-76mm) OD Tenon, with external 3ft #14/3 power cable.

Option V

- V1 = Knuckle Wall Mount. Lead wires exiting tenon.

Option T

- T1 = Trunnion, with external 3ft #14/3 power cable.

Finish

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

Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 PE Socket Standard. Light Grid compatible.
- Dimming: 0-10V continuous dimming standard.
- DALI digital dimming available. Contact manufacturer.
- DALI compatible drivers available in 120-277 VAC.
- Surge Protection; per ANSI C136.2-2015.
  - 6kV/3kA “Basic” surge protection, standard.
  - 10kV/5kA “Enhanced” surge protection, optional.
- EMI: Title 47 CFR Part 15 Class A

Warranty

- 5yr standard warranty

Accessories

- Top & Side Visor
- Wire Guard
- Vandal Shield
- Barn Door Assembly

Lumen Maintenance

<table>
<thead>
<tr>
<th>Ambient Temp.</th>
<th>Optical Code</th>
<th>Projected1 25K Hour</th>
<th>Projected1 50K Hour</th>
<th>Projected1 88K Hour</th>
<th>Projected1 100K Hour</th>
<th>Calculated2 25K Hour</th>
<th>Calculated2 50K Hour</th>
<th>Calculated2 88K Hour</th>
<th>Calculated2 100K Hour</th>
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<tbody>
<tr>
<td>5°C (41°F)</td>
<td>AA, BB, CC, DD, EE</td>
<td>0.964</td>
<td>0.945</td>
<td>0.913</td>
<td>0.890</td>
<td>0.868</td>
<td>0.843</td>
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<td>10°C (50°F)</td>
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<td>0.940</td>
<td>0.909</td>
<td>0.888</td>
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<td>15°C (59°F)</td>
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<td>20°C (68°F)</td>
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<td>0.954</td>
<td>0.927</td>
<td>0.887</td>
<td>0.875</td>
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<td>25°C (77°F)</td>
<td>AA, BB, CC, DD, EE</td>
<td>0.950</td>
<td>0.920</td>
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<td>40°C (104°F)</td>
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Note: Based on 10,000 hours LM-80 data. For details, see http://www.energystar.gov/ia/partners/prod_development/newSpecs/downloads/luminaires/ENERGY_STAR_Final_Lumen_Maintenance_Guidance.pdf.

1 In accordance with IESNA TM-21-11, Projected values represent interpolated values based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip.

2 In accordance with IESNA TM-21-11, Calculated values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip.
## Ordering Number Logic

### Evolve™ LED High Output Flood Light (EFH1)

<table>
<thead>
<tr>
<th>PROD ID</th>
<th>GENERATION</th>
<th>VOLTAGE</th>
<th>OPTICAL CODE</th>
<th>DISTRIBUTION</th>
<th>CRI</th>
<th>CCT</th>
<th>DIMMING</th>
<th>CONTROLS</th>
<th>MOUNTING</th>
<th>FINISH</th>
<th>OPTIONS</th>
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<tr>
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### PE Accessories (to be ordered separately)

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<tr>
<th>SAP Number</th>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>93029237</td>
<td>PED-MV-LED-7</td>
<td>ANSI C136.41 Dimming PE, 120-277V</td>
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<td>93029238</td>
<td>PED-347-LED-7</td>
<td>ANSI C136.41 Dimming PE, 347V</td>
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<td>93029239</td>
<td>PED-480-LED-7</td>
<td>ANSI C136.41 Dimming PE, 480V</td>
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<table>
<thead>
<tr>
<th>SAP Number</th>
<th>Part Number</th>
<th>Description</th>
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<tr>
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<td>73251</td>
<td>SCCL-PCTEL</td>
<td>Shorting cap</td>
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Photometrics
Evolve™ LED High Output Flood Light (EFH1)

77-EE
38,700 Lumens, 4000K (EFH101_EE77740__ies)

76-EE
37,800 Lumens, 4000K (EFH101_EE76740__ies)

66-EE
37,400 Lumens, 4000K (EFH101_EE66740__ies)

65-EE
35,500 Lumens, 4000K (EFH101_EE65740__ies)
Product Dimensions
Evolve™ LED High Output Flood Light (EFH1)

Trunnion Mounting

Slipfitter Mounting
Product Dimensions
Evolve™ LED High Output Flood Light (EFH1)

Wall Mounting

- Approximate net weight: 35 lbs (15.9 kgs)
- Effective Projected Area:
  - Vertical 3.51 sq ft (0.33 sq M) (aimed at horizon)
  - Tilted 1.79 sqft (0.17 sq M) (aimed down 45 degrees)

PE Aiming Restrictions
Accessories
Evolve™ LED High Output Flood Light (EFH1)

Top And Side Visor
Ordering Logic: TSVGRAY-EFH
TSVBLCK-EFH
TSVDKBZ-EFH
TSVWHTE-EFH

Vandal Shield
Ordering Logic: VAN-EFH

Wire Guard
Ordering Logic: WG-EFH

Barn Doors
Ordering Logic: BDAGRGRAY-EFH
BDABLCK-EFH
BDADKBZ-EFH
BDAWHTE-EFH