Generation Series™
LED Decorative Post Top Luminaire

Cooper Lighting
by Eaton
Performance and Aesthetic Value

Versatile, Adaptable Form
From traditional to contemporary applications, the Generation Series LED post top luminaire provides the flexibility of form needed to complement a wide range of surroundings. A wide selection of base, cage, top, lens and finial styles allows for hundreds of design combinations.

Efficient LED Technology
LEDs open the door for meaningful reductions in energy consumption, improving the bottom line while providing real environmental benefits. The Generation Series LED luminaire provides warm, white light with dimming technology that allows for precise management of energy usage and illumination, while its long maintenance intervals deliver real operating cost savings and return on investment.

Designed for the Long Run
The Generation Series LED luminaire boasts leading edge technology and world-class reliability along with user-friendly features like tool-less entry and quick electrical disconnects. Backed by rigorous engineering and manufacturing standards, the Generation Series LED luminaire integrates the latest technology in a familiar form with no compromises.

The Generation Series LED luminaire is a marriage of traditional shapes, contemporary styling and superior photometrics that offer excellent illumination and uniformity for many of today’s applications.
Design Performance Features

Construction
• Heavy-duty die-cast aluminum housing, removable door and cage assemblies
• Multiple spun aluminum or acrylic tops, cast aluminum finials and extruded aluminum cage rings
• Single quarter turn fastener for tool-less access to wiring compartment
• Optional twistlock globe assembly for ease of maintenance
• Optional internal NEMA photocontrol receptacle available
• 3G vibrated tested

Electrical
• Operates in -40°C to 40°C ambient temperatures
• 10kV/10kA UL 1449 surge protection standard
• >L90, 60,000 hours at 40°C, compliant with IESNA TM-21
• 120-277V 50/60Hz operation
• Standard three-position tunnel type compression terminal block

Optical
• Available in Type III and Type V distributions

Mounting
• Fits 3” O.D. tenons, secured by four 3/8” stainless steel fasteners

Finish
• Five-stage super TGIC paint resists extreme weather conditions while providing optimal color and gloss retention. It’s available in standard black, bronze, grey, white, dark platinum, graphite metallic or hartford green. RAL and custom colors matches available

Warranty
• Five-year warranty

Surge Protection
10kV/10kA UL 1449 surge protection against common (line-to-ground) and differential (line-to-line) surge.

Tool-less Access
Access to wiring compartment via a single quarter-turn fastener.

Decorative Brass Banding
To further enhance the aesthetics of the Acorn and Victorian glow top versions, a decorative brass band is available.

4000K nominal
2700K 3000K 3500K 4100K 5000K 6500K

Lumen Maintenance
>90%

Hours of Operation
60,000

NOTE: Compliant with IESNA TM-21
Flexibility and Versatility

Appealing Form

The Generation Series LED luminaire is designed to offer a multitude of both traditional and contemporary forms to meet varying market needs. Combining three distinct bases, four unique cage assemblies and a variety of tops and finials, over 100 different styles can be created to complement virtually any application.

Top Type

- Modern (Spun Top)
- Nostalgic (Spun Top / Top Access)
- Victorian (Glow Top)
- Architectural
- Victorian

Finial Type

- Modern
- Nostalgic

Classical (Spun Top)

- Architectural (Spun Top / Top Access)
- Acorn (Glow Top)
- Avenue (Spun Top / Top Access)

Globe Type

- Refractive Globe (Type III or V)
- Acrylic or Polycarbonate

Base Type

- Acorn
- Architectural
- Classical

Cage Type

- Classical
- Modern
- Architectural
- Avenue

NOTES: 1 Avenue cage must be ordered with Avenue Top and Architectural base. Avenue top is available without cage.
Energy Savings

Reduced Energy Consumption
Operating and maintenance costs of a lighting system are dramatically impacted by the lamp type, system power consumption and the duration time of operation. Total system input watts and fixture operating life should be the driving considerations when addressing energy consumption and total cost of ownership. Energy savings increase when energy consumption is reduced and maintenance intervals are extended.

Annualized Energy and Maintenance Savings/Cost Comparison

<table>
<thead>
<tr>
<th>Product</th>
<th>Correlated Color Temperature (CCT)</th>
<th>Wattage</th>
<th>Hours Per Year (12 Hours Per Day)</th>
<th>Life (Hours)</th>
<th>Lamp Price</th>
<th>Five-Year Re-lamp Cost</th>
<th>Five-Year Energy Cost ($0.10/kWh)</th>
<th>Five-Year Cost-to-Own, Maintenance + Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation Series LED</td>
<td>4000K</td>
<td>99W</td>
<td>4,380</td>
<td>60,000</td>
<td>N/A</td>
<td>$0</td>
<td>$217</td>
<td>$217</td>
</tr>
<tr>
<td>150W HPS</td>
<td>2100K</td>
<td>185W</td>
<td>4,380</td>
<td>24,000</td>
<td>$10</td>
<td>$80</td>
<td>$405</td>
<td>$485</td>
</tr>
<tr>
<td>175W MH</td>
<td>3000K-4000K</td>
<td>208W</td>
<td>4,380</td>
<td>16,000</td>
<td>$10</td>
<td>$120</td>
<td>$456</td>
<td>$576</td>
</tr>
</tbody>
</table>

Retrofit Installation
The Generation Series LED light engine is backwards compatible, requiring no modification to existing refractive globe Generation Series HID luminaires installed in the field. The light output is tuned to match the properties of HID sources, optimizing photometric performance and visual appearance.

Installation of the LED replacement module in the Generation Series luminaire is quick and easy. The electrical quick disconnect of the LED replacement module matches existing HID connections. Access to the electrical quick disconnect is gained through the housing door via a quarter-turn fastener. Inside the lamp compartment the HID lamp and ballast module are mounted on a cast aluminum tray that can be removed by loosening two tool-less thumb screws. Remove the HID module and reconnect the LED replacement module using the same electrical connection and thumbscrew arrangement. Lastly the refractive globe is put back into place and the housing door is closed.
## Ordering Information

**Sample Number:** ACN-080-LED-E-U-33-1-7-3-BK

<table>
<thead>
<tr>
<th>Product Family</th>
<th>LED Series</th>
<th>Driver Type</th>
<th>Voltage Type</th>
<th>Refractor Type</th>
<th>Cage Type</th>
<th>Top Type</th>
<th>Finial Type</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACN=Acorn Base</td>
<td>080-080 Series</td>
<td>E=Non-Dimming</td>
<td>U=Universal (120-277V)</td>
<td>33=Type III</td>
<td>Classical</td>
<td>1=Acorn</td>
<td>1=Acorn</td>
<td>AP=Grey</td>
</tr>
<tr>
<td>ARC=Architectural Base</td>
<td></td>
<td>D=Dimming</td>
<td></td>
<td>55=Type V</td>
<td></td>
<td>2=Modern</td>
<td>2=Modern</td>
<td>BZ=Bronze</td>
</tr>
<tr>
<td>CLB=Classical Base</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Modern</td>
<td>3=Architectural</td>
<td>3=Architectural</td>
<td>BK=Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Architectural</td>
<td>4=Classical</td>
<td>4=Classical</td>
<td>DP=Dark Platinum</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5=Universal</td>
<td>5=Universal</td>
<td>GN=Hartford Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6=Nostalgic</td>
<td>GM=Graphite Metallic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7=Architectural</td>
<td>WH=White</td>
</tr>
</tbody>
</table>

### Options (Add as Suffix)
- **2L=Two Circuits**
- **SH=Street Side / House Side Switching**
- **A=Twistlock Globe**
- **B=Decorative Brass Banding**
- **C=Copper Accents**
- **4=Internal NEMA Photocontrol Receptacle**
- **U=UL/CSA Listed**
- **P=Polycarbonate Refractor**

### Accessories (Order Separately)
- **OA1222=10kV Surge Module**
- **GLK080EU=Generations LED Retrofit Light Engine Kit**
- **GLK080EU2L=Generations LED Retrofit Light Engine Kit wired for Two Circuit Dimming**
- **GLK080EUSH=Generations LED Retrofit Light Engine Kit wired for Street Side / House Side Dimming**

### Notes:
1. Cage type painted to match base.
2. Avenue cage only available with Avenue Top and Architectural base.
3. Available with Acorn and Victorian tops only.

### Dimensions

#### ACN (Acorn Base)
- Cage-type painted to match base.
- Avenue cage only available with Avenue Top and Architectural base.
- Available with Acorn and Victorian tops only.

<table>
<thead>
<tr>
<th>Cage Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-1/3&quot; [643mm]</td>
<td></td>
</tr>
<tr>
<td>18-3/4” [476mm]</td>
<td></td>
</tr>
<tr>
<td>18-3/4” [476mm]</td>
<td></td>
</tr>
</tbody>
</table>

#### ARC (Architectural Base)
- Cage-type painted to match base.
- Avenue cage only available with Avenue Top and Architectural base.
- Available with Acorn and Victorian tops only.

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<th>Cage Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; [610mm]</td>
<td></td>
</tr>
<tr>
<td>18-3/4” [476mm]</td>
<td></td>
</tr>
<tr>
<td>17-3/5” [447mm]</td>
<td></td>
</tr>
</tbody>
</table>

#### CLB (Classical Base)
- Cage-type painted to match base.
- Avenue cage only available with Avenue Top and Architectural base.
- Available with Acorn and Victorian tops only.

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<tr>
<th>Cage Type</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>24-3/4&quot; [610mm]</td>
<td></td>
</tr>
<tr>
<td>18-3/4” [476mm]</td>
<td></td>
</tr>
<tr>
<td>17-3/5” [447mm]</td>
<td></td>
</tr>
</tbody>
</table>

#### ARC Avenue
- Cage-type painted to match base.
- Avenue cage only available with Avenue Top and Architectural base.
- Available with Acorn and Victorian tops only.

<table>
<thead>
<tr>
<th>Cage Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>37-3/8&quot; [949mm]</td>
<td></td>
</tr>
<tr>
<td>25-3/8” [645mm]</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Compliances</th>
<th>Technical Data (Electronic Driver)</th>
<th>EPA (Effective Projected Area - Square Feet)</th>
<th>Shipping Data (Approximate Net Weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL and cUL Wet Location Listed 3G Vibration Rated ISO 9001</td>
<td>+40°C (104°F) Ambient Temperature Rating -40°C (-40°F) Ambient Temperature Rating &gt;0.9 Power Factor &lt;20% Total Harmonic Distortion 120-277V 50/60Hz</td>
<td>2.1</td>
<td>50 lbs. (23 kgs.)</td>
</tr>
</tbody>
</table>

**NOTE:** Specification and dimensions subject to change without notice.