

DESCRIPTION

The GAR/GAT/GLC Generation Series LED is a marriage of traditional shapes and contemporary styling. Its superior photometrics offer excellent illumination and uniformity for many of today's applications. Its styling blends well in many settings – historic districts, downtown streetscapes, roadways, residential neighborhoods, as well as city parks and educational campuses. The Generation Series LED sets a new standard for decorative post top luminaires.

| Catalog # | | Type |
|-------------|--|------|
| Project | | |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty cast aluminum housing and removable door. A single quarter turn fastener on the removable door provides tool-less access to wiring compartment. **CAGE ASSEMBLIES:** Cage assembly uprights and medallions are manufactured of heavy-duty cast aluminum and mounted to the exterior of the base housing via four stainless steel fasteners. Cage rings constructed of extruded aluminum and finished to match housing. **TOPS AND FINIALS:** Choose from multiple spun aluminum or acrylic tops and cast aluminum finials for customized fixture style. All solid tops are made of heavy-duty spun aluminum. **TWISTLOCK GLOBE:** The optional twistlock assembly offers ease of maintenance through instant access to both the LED and wiring compartment by twisting the top refractor assembly and lifting it from the mating lock plate.

Optical

REFRACTIVE GLOBE: High efficiency refractive optical systems are precisely designed utilizing a combination of refractive and reflective prisms. Available in Type III or Type V distributions. Lighting grade acrylic ensures long lasting optical clarity and resistance to discoloration.

Electrical

120-277V 50/60Hz operation. 10kV /10kA common- and differential mode surge protection standard. Thermal management transfers heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C. Standard three-position tunnel type compression terminal block.

Mounting

Base casting slipfits over a standard 3" O.D. tenon and secured via four stainless steel allen head fasteners. 3G vibration tested.

Finish

Cast and spun components finished in a five-stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult the McGraw-Edison Architectural Color brochure for a complete selection of standard colors including black, bronze, grey, white, dark platinum, graphite metallic and hartford green. RAL and custom color matches available.

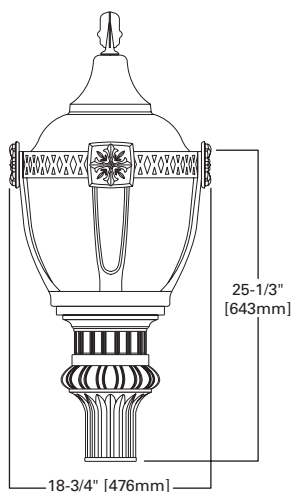
Warranty

Five-year warranty.

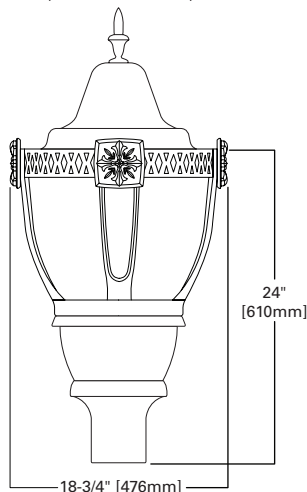


DIMENSIONS

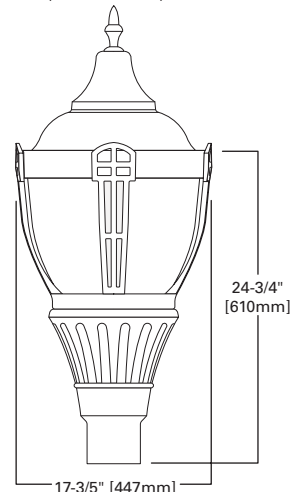
GAR (Acorn Base)



GAT (Architectural Base)



GLC (Classical Base)



GAR/GAT/GLC GENERATION SERIES LED

LED

DECORATIVE POST TOP
LUMINAIRE

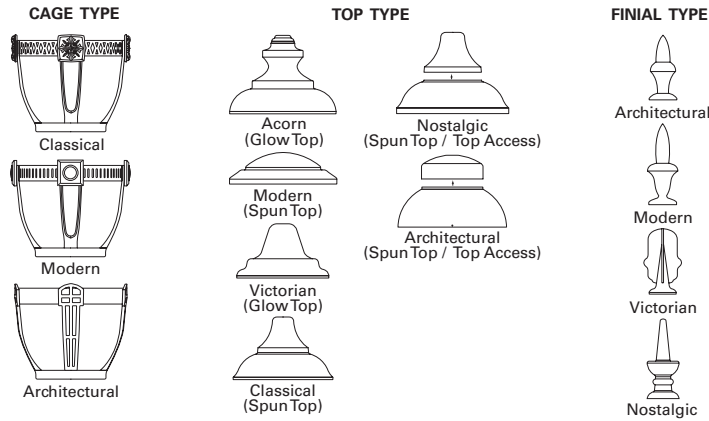
EPA

Effective Projected Area: (Sq. Ft.)
2.1

SHIPPING DATA

Approximate Net Weight:
50 lbs. (23 kgs.)

CONFIGURATIONS



LUMEN TABLE

| Distribution | Correlated Color Temperature (CCT) | Cage Type | Top Type | Total Lumens (Full Brightness) | Luminaire Wattage (Nominal) |
|--------------|------------------------------------|-----------|----------|--------------------------------|-----------------------------|
| Type III | 4000K | None | Glow | 11,060 | 99W |
| Type III | 4000K | None | Solid | 8,467 | 99W |
| Type III | 4000K | Any | Glow | 7,776 | 99W |
| Type III | 4000K | Any | Solid | 5,778 | 99W |
| Type V | 4000K | None | Glow | 10,571 | 99W |
| Type V | 4000K | None | Solid | 9,365 | 99W |
| Type V | 4000K | Any | Glow | 7,537 | 99W |
| Type V | 4000K | Any | Solid | 6,087 | 99W |

LUMEN MAINTENANCE

| Ambient Temperature | TM-21 Lumen Maintenance (36,000 Hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| 15°C | >93% | 240,000 |
| 25°C | >92% | 210,000 |
| 40°C | >89% | 117,000 |

ORDERING INFORMATION

Sample Number: GAR-080-LED-E1-3-CXA-BK

| Product Family ¹ | LED Series | Lamp Type | Voltage | Refractor Type | Top Type | Cage Type | Finial Type | Color ² |
|---|--------------------|--|--------------------------|------------------------|---|--|---|---|
| GAR=Acorn Base GAT=Architectural Base GLC=Classical Base | 080-LED=080 Series | LED=Solid State Light Emitting Diodes | E1=Electronic (120-277V) | 3=Type III 5=Type V | A=Acorn C=Classical M=Modern V=Victorian N=Nostalgic (Top Access) R=Architectural (Top Access) | A=Architectural C=Classical M=Modern X=None | A=Architectural M=Modern N=Nostalgic V=Victorian X=None | AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GN=Hartford Green GM=Graphite Metallic WH=White |
| Options (Add as Suffix) | | Accessories (Order Separately) | | | | | | |
| A=Twistlock Refractor B=Decorative Brass Banding ^{3,4} G=Gold Cage and Finial P=Polycarbonate Refractor 2L=Two Circuits SH=Street Side / House Side Switching | | MA1252=10kV Surge Module Replacement GLR-080-E1=080 Series LED Series LED Replacement Module with 120-277V Universal Driver GLR-080-E1-2L=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Bi-Level Switching Capable GLR-080-E1-SH=080 Series LED Series LED Replacement Module with 120-277V Universal Driver and Street Side / House Side Switching Capable | | | | | | |

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- Other finish colors available, including a full line of RAL color matches. Consult your lighting representative at Eaton for more information.
- When brass banding is chosen, finial finished in gold.
- Not available with cage.