



Generation Series

Decorative Post Top Luminaire



GENERATION SERIES



DECORATIVE POST TOP LUMINAIRE

TABLE OF CONTENTS

Design Flexibility	.3
LED Technology	.5
Energy Savings	.7
Specification Features	.9
Photometrics1	. 1
Ordering Information1	. 3

EVOLUTIONARY FORM

Regardless of whether the application has a contemporary character or is decidedly traditional, the interchangeability of the Generation Series of post top luminaires provides the versatility of form necessary to complement the appearance of surrounding environments. A well-rounded collection of base, cage, top, lens and finial styles creates hundreds of design combinations and modularity that surpasses every product family in the decorative post top market.

CITYSCAPE | PATHWAY | NEIGHBORHOOD



ENVIRONMENTAL STEWARDSHIP

Reduce, Reuse and Recycle—three words that universally stand for responsible conservation of the earth's precious resources. Likewise, Light Emitting Diodes [LED] usher in the lighting industry's opportunity for meaningful reductions in worldwide energy and resource consumption. Further enhancing LED technology with control features, the Generation Series provides uniform task illumination while decreasing CO₂ emissions, eliminating mercury disposal, lengthening maintenance cycles and dramatically reducing energy consumption.

WITHSTANDS THE TEST OF TIME

The Generation Series LED luminaire retains maintenance-friendly toolless and quick disconnect features while incorporating breakthrough source and performance innovations. Backed by Cooper Lighting's rigorous qualification standards, the Generation Series LED proves that the newest technology can seamlessly integrate into familiar forms without compromise.

DESIGN FLEXIBILITY

APPEALING FORM

Although traditional forms remain popular for the illumination of streetscapes, more contemporary shapes are beginning to gain favor. The Generation Series is designed to offer a multitude of both traditional and contemporary forms to meet varying market needs. Combining three [3] exquisite bases, five [5] unique cage assemblies, and a variety of tops and finials, over 100 different styles can be created to complement virtually any application.

BASE TYPE



Architectural



Classical



Classical



Acorn

CAGE TYPE



Modern



Architectural





Lantern [Cascade Only]

GLOBE TYPE



Refractive Globe Type III or V Acrylic or Polycarbonate



Clear Acrylic Globe Cutoff Type III or V w/Decorative Chimney

TOP TYPE



Victorian [Glow Top]



Acorn [Glow Top]



Modern [Spun Top]



Classical [Spun Top]



Nostalgic [Spun Top / Top Access]



Architectural [Spun Top / Top Access]



Avenue [Spun Top / Top Access]

FINIAL TYPE



Architectural



Modern



Victorian



Nostalgic

BRIDGING THE GAP BETWEEN AESTHETICS + PERFORMANCE

Traditional character with updated styling and superior photometric performance sets a standard for decorative post top luminaires. A wide variety of styles allow the Generation Series to both blend into and enhance the architectural setting of historic districts, neighborhoods, downtown streetscapes, walkways and commercial applications. Built to withstand the tests of time, The Generation Series bridges the gap between aesthetic ambiance and modern lighting performance.















CVL CUTOFF SERIES

For applications with strict light control ordinances, the Generation Series CVL cutoff luminaires are equipped with multifaceted, precision formed Type III Cutoff [3C] or Type V Cutoff [5C] optical systems. The vertical lamp position optimizes light output and distribution uniformity while minimizing direct glare. Cutoff series luminaires offered standard with a brushed aluminum chimney to house electrical components. Enhance decorative appeal with an optional matte black chimney [CC] or copper anodized access top and chimney [CA].



NOTE: In cutoff distributions only.

INTERNAL HOUSE SIDE SHIELD

Factory installed or field retrofitable, the internal house side shield reduces light concentration behind the pole while maintaining street side efficiency.

DECORATIVE BRASS BANDING

To further enhance the aesthetics of the Acorn and Victorian glow top versions, a decorative brass band [B] is available.

CONCENTRATED DOWNLIGHT

Increase downward efficiency, minimize uplight and retain the appealing soft glow of Victorian and Acorn glow top configurations with the optional downlight reflector [D].

LED TECHNOLOGY

EXPERTISE IN HARSH ENVIRONMENTS

Through a rich history of innovation and technological advances in electrical product and component manufacturing, Cooper Lighting has amassed extensive knowledge and expertise in reliable luminaire design. Precise engineering is backed by rigorous qualification testing protocols that mimic the rigors of the exterior environment to ensure reliable performance over the product lifetime.

Exterior lighting specifications frequently designate a high level of surge immunity due to transient voltages. Traditional magnetic HID ballasts inherently provide between 7.5kV and 10kV of surge protection. However, due to the construction of electronic ballasts or LED drivers, the inherent surge resistance can be far less. To bridge this gap and provide the expected reliability for exterior roadway applications, the Generation Series LED is supplied standard with a replaceable circuit module designed to withstand 10kV of transient line surge.





HIGH RELIABILITY + LOW MAINTENANCE

Light emitting diodes are solid state devices that do not have filaments or glass components that can break causing the source to fail. Due to solid state construction, an LED light source is less susceptible to vibration, therefore reducing the risk of premature failure and improving component longevity. Over 70% of the initial light output is maintained after 50,000 hours of operation. In application, a LED fixture can last six [6] times longer than metal halide sources or nearly three [3] times longer than high pressure sodium sources.

RIGOROUS INTERNAL PROCESS + TESTING

The performance of LED luminaires relies heavily upon thermal management. Utilizing the most current techniques for optical design, thermal modeling, and qualification testing ensures that the most reliable product is delivered to the market. In addition, Cooper Lighting has invested significant effort to manage the thermal challenges associated with implementing LED technology in high ambient environments. All components have been fully evaluated to perform in ambient temperatures up to 40°C [104°F].

DRAMATIC ADVANCES IN LED TECHNOLOGY

Dramatic advances in LED technology have broadened the applicability of this type of illumination in outdoor applications. Compared to traditional metal halide and high pressure sodium technologies, LED light sources can deliver longer life, enhanced energy efficiency, greater eco-friendliness, lowered maintenance demands and equal or better quality of light. Today, bright-white LEDs have more than tripled their light output as compared with just a few years ago. That and other ongoing performance improvements are helping LEDs gain wider acceptance in outdoor, commercial and municipal applications.

WHITE LIGHT + COLOR CONSISTENCY

Producing 5,000 source lumens, the Generation Series LED luminaire provides comparable performance to a 100W metal halide luminaire with excellent color rendering and a brilliant white color temperature. The optical design yields effective distribution shaping and superior glare control.

QUALITY OF LIGHT—UNIFORMITY OF ILLUMINATION

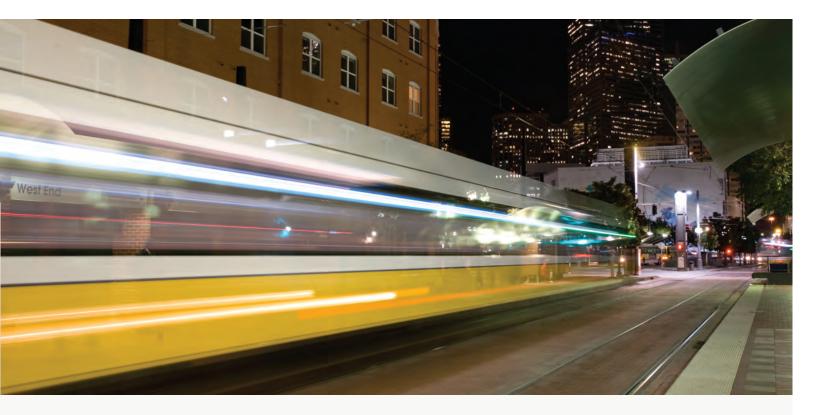
When LEDs are implemented properly they can provide impressive improvements in uniformity [maximum to minimum footcandles] when compared to traditional metal halide or high pressure sodium sources. This improvement in uniformity allows the observer to focus on visual tasks, reduces eye strain and creates a more comfortable and inviting outdoor environment for pedestrians and drivers alike.

EFFICIENCY + EFFICACY

Both energy efficiency and light efficacy have improved with LEDs. It is well documented that the light output relative to the electrical energy consumed has increased rapidly in recent years. Continuous advancement in research and development of LEDs has improved the energy efficiency commonly measured in lumens per watt [LPW]. Advancement in optical control of the light produced by LEDs, which is fundamentally different than traditional sources, has also been improving over time. Enhancements in the way light is directed means that light can oftentimes be more effectively utilized versus other sources. The combination of the two drives down the cost of light in both initial cost and operating cost.

PARTNERING TO ENCOURAGE ENVIRONMENTAL CONSERVATION

Cooper Lighting builds on a long history of reliability and innovation to ensure superior luminaire performance. Advancements in LED technology coupled with Cooper Lighting's expertise in design and manufacturing to create the Generation Series LED luminaire—an elegant lighting solution with conservative energy and resource consumption.



LIVABLE CITIES AND NEIGHBORHOODS

Livable cities are designed with careful thought toward encouraging pedestrian traffic and providing support for bicycling and public transit as complementary modes of transportation. They work to integrate pedestrian improvements into neighborhood plans and street and corridor projects. Livable Cities advocate completion of pedestrian projects citywide, support revitalization of the city's plazas and public open spaces and assist the efforts of neighborhood groups geared toward improving the walkability of their community through technical support and advocacy. Urban lighting is a critical component of pedestrian movement and the environmental ambiance. It should be used to create illumination scenes offering more secure, inviting, attractive, appropriate and positive images for people who live and work in the surrounding community.

SUSTAINABLE BY DESIGN

Fixtures with LED sources have an environmental advantage in that LEDs contain no mercury, have extended life, produce less waste and are made from fully recyclable materials.

CO₂ OFFSET

The supply of fossil fuels impacts lighting and all energy consuming products. Lighting fixtures constitute a large percentage of electric utility bills—as much as 40% in some commercial facilities. Lighting will need to change to meet higher mandated efficiency levels. Changes in the lighting industry are being driven by energy legislation that has been established to meet concerns of excessive consumption. The future of lighting lies with high efficiency products that meet lower energy consumption levels.

RoHS¹

A significant portion of RoHS legislation is the ban on lead, which can directly affect lighting products. All LED products produced by Cooper Lighting are RoHS compliant, containing neither lead nor mercury unlike some traditional sources.

CONSERVES RESOURCES

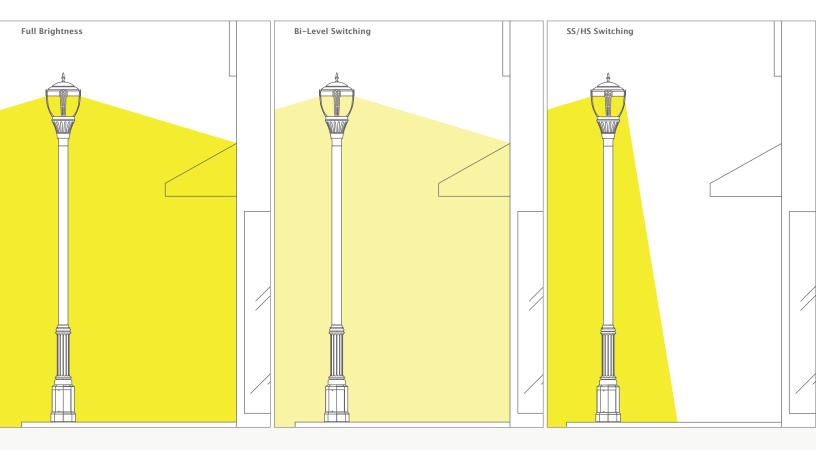
The sustainability of the Generation Series LED luminaire dramatically reduces maintenance and service costs over traditional sources. Fixtures which last longer will need to be replaced less frequently resulting in fewer service calls.

ENERGY SAVINGS PLATFORM

Upgrading to a Generation Series LED decorative fixture can save hundreds of dollars over the life of the fixture via significantly reduced electric demand. Each Generation Series LED luminaire consumes up to 75% less energy than a comparable HID system when coupled with dimming and control features.



ENERGY SAVINGS



TASK DRIVEN ILLUMINATION

Offered in Type III and Type V refractive units or cutoff Type III and Type V clear globe units, the Generation Series luminaires focus light on the task at hand instead of producing wasteful and uncontrolled illumination.

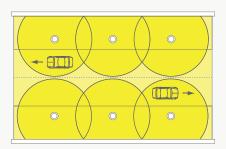
CURFEW COMPLIANCE

Legislation from forward leaning communities incorporates energy saving measures beyond maximum source wattage. Curfew regulations call for lighting power reduction. When alternating luminaires are turned off to accomplish the power reduction, uniformity is greatly reduced, impeding visibility and the feeling of security. For LED equipped luminaires, the Bi-Level Switching [2L] option provides a uniform 50% power reduction. Dual drivers wired to alternating banks produce energy saving power reductions while closely maintaining critical-to-safety lighting uniformity levels.

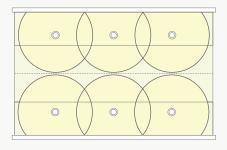
SELECTIVE SWITCHING SOLUTIONS

For main roadway thoroughfares or other areas with constant light level requirements, energy saving power reductions may be obtained through Street Side/House Side Switching [SH]. Available only on LED equipped luminaires, specifying this switching option allows independent operation of the house side and the street side of the distribution through separate circuiting. During late night or post business hours a single driver can be powered down to save 50% of energy consumption while closely maintaining opposing light levels.

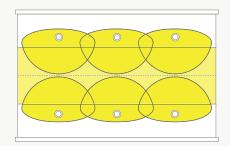
Full Brightness



Bi-Level Switching



SS/HS Switching



Building Facade

MEETING ENERGY REDUCTION GOALS

Project payback analysis and product performance requirements vary greatly from application to application. The Generation Series LED luminaire offers alternate source options and customizable features focused on tailoring the light distribution and energy consumption to meet the specified application requirements.

ENERGY SAVING STRATEGIES

Thoughtful design and application knowledge allows the Generation Series to reduce energy consumption by as much as 75% when teamed with available control options. High efficacy sources, new source technologies and switching solutions allow numerous energy saving scenarios to meet a multitude of application and legislative requirements.

SOURCE SELECTION

Light source selection can dramatically impact the operating and maintenance costs of a lighting system and should be the first consideration when addressing concerns over energy consumption and total cost of ownership. Sources with higher lumen maintenance values reduce the number of fixtures needed to achieve consistent lighting levels over the fixture's installed life. Initial savings are compounded by decreased energy consumption and less frequent maintenance intervals.

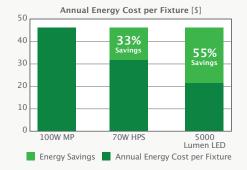
Lamp Source	Delivered Lumens ¹	Input Watts	Total Annual Cost ²	Annual Savings ³	% Savings
100W Pulse Start Metal Halide [MP]	3,950	129	\$2,354		
70W High Pressure Sodium [HPS]	2,950	86	\$1,570	\$785	33%
5000 Lumen Light Emitting Diodes [LED]	2,850	58	\$1,059	\$1,296	55%

NOTES: 1 Delivered lumens is the number of lumens that reach the surface after optical losses and light loss factors are considered.

2 Total annual cost is the cost of operating 50 fixtures 10 hours per day with a national average energy cost of \$0.10 per kWh.

Annual Cost = (Input watts) * (# of fixtures) * (operating hours) * (days/year) * (kWh/1000). 3 Annual savings is the money saved by operating 50 fixtures for 10 hours per day with the listed source over the standard 100W MP lamp.

Annual Savings = (Total Annual 100W MP cost) - (Total Annual Cost).



CONTROL OPTIONS

Beyond efficient light source selection, switching options offer the next level of energy saving opportunities. On average, lighting installations operate for approximately 10 hours each evening. During this time, only 4–6 hours are during actual business hours and peak activity periods. The Generation Series offers LED switching options that achieve a 50% power reduction while closely maintaining lighting uniformity levels that ensure safety and security.

			Total		
Lamp	Input	Operating	Annual	Annual	%
Source	Watts	Hours	Cost 1	Savings ²	Savings
5000 Lumen LED [Full Power]	58	5	\$529		
[Optional Switching]	29	5	\$265	\$265	50%

NOTES: 1 Total annual cost is the cost of operating 50 fixtures 5 hours per day with a national average energy cost of \$0.10 per kWh. Annual Cost = (Input watts) * (# of fixtures) * (perating hours) * (days/year) * (kWh/1000). 2 Annual savings is the money saved by operating 50 fixtures at the low level for 5 hours per day. Annual Savings = (Total Annual [Full Power] Cost) - (Total Annual [Optional Switching] Cost).

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 while enabling retrofit opportunities.

Commensurate with the standard maintenance features offered in the Generation Series, installation of an LED replacement module is quick and easy. The electrical quick disconnect of the LED replacement module matches existing HID connections. Access to the electrical quick disconnect is through the housing door via a quarter turn fastener. Inside the lamp compartment the HID lamp and ballast module is mounted on a cast aluminum tray that can be removed by loosening two [2] toolless thumb screws. Remove the HID module and reconnect the LED replacement module using the same electrical connection and thumbscrew arrangement. Once the refractive globe is put back into place and the housing door is closed enjoy the energy savings.



SPECIFICATION FEATURES













CONSTRUCTION

Housing: Heavy-duty cast aluminum housing and removable door are 3.5G vibration tested to ensure strength of construction and longevity in application. A single quarter turn fastener on the removable door provides toolless access to the electrical compartment, terminal block and the optional internally mounted photocontrol receptacle for ease of installation and maintenance.

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 [4] stainless steel fasteners. Cage rings constructed of extruded aluminum and finished to match housing.

Tops and Finials: Choose from seven [7] spun aluminum or acrylic tops and four [4] cast aluminum finials for customized fixture style. All hard mount tops are heavy-duty spun aluminum or for Cascade, cast aluminum. Select spun tops offer top access for toolless entrance into the lamp compartment during relamping or maintenance.

Twistlock Globe: An optional twistlock globe assembly [available on the Acorn and Classical bases only] offers ease of maintenance through toolless access to the lamp compartment by twisting the top refractor assembly and lifting it from the mating lock plate.

OPTICAL

Refractive Globe: High efficiency refractive optical systems constructed of lighting grade acrylic, or optional polycarbonate1. Precisely designed utilizing a combination of refractive and reflective prisms to create Type III or Type V distributions while maintaining a consistent exterior form. CVL cutoff and Cascade series luminaires offered standard with a clear injection molded lighting grade acrylic globe. Lighting grade acrylic ensures long lasting optical clarity and resistance to the gradual discoloration that results from exposure to sunlight or UV radiating sources. Reflector + Chimney [cutoff versions only]: Generation Series CVL cutoff luminaires equipped with multifaceted, precision formed Type III Cutoff [3C] or Type V Cutoff [5C] optical systems. Chimney housing electrical components supplied standard with a brushed aluminum finish or with an optional matte black [CC] or copper anodized [CA] finish.

ELECTRICAL

HID ballast or LED driver assembly mounted to a toolless removable tray with quick disconnects for ease of installation and maintenance. Wide toolless access door provides ample hand and tool room for terminal block and plug-in starter access [HID only]. Available with 58W LED and HID sources up to 400W metal halide or 250W high pressure sodium. LED Light Engine: Solid State LED engine provides even and uniform illumination without the pixilation common to LED applications. Thermal management incorporates both conduction and natural convection to transfer heat rapidly away from the LED source and retain optimal efficiency and light output. The LED replacement module is backwards compatible with existing Generation Series luminaire installations enabling retrofit opportunities. For low temperature operation the Generation Series luminaires are suitable to -30°C.

MOUNTING

Base casting slipfits over a standard 3" O.D. tenon and secured via four [4] stainless steel allen head fasteners. 3.5G vibration tested [2G Cascade].

EASE OF MAINTENANCE

Ease of maintenance was a leading design consideration for Generation Series decorative post top luminaires. Without considering routine maintenance, by treating it secondary to the form, a fixture can become a liability instead of an asset. Consideration must be given to the access to electrical components, types of ballasts and drivers that can be used and ease of relamping when selecting a decorative product.

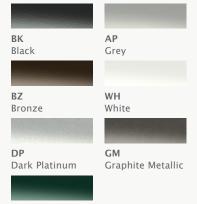


FINISH

GN

Hartford Green

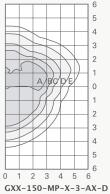
Cast and spun components finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult the McGraw–Edison Architectural Colors brochure for a complete selection of standard colors include black, bronze, grey, white, dark platinum, graphite metallic, and hartford green. RAL and custom color matches available.



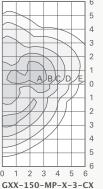


PHOTOMETRICS

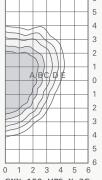
[complete IES files available at www.cooperlighting.com]



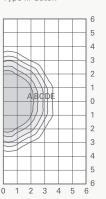
150-Watt MP 14.000-Lumen Lamp Type III w/Glow Top + Downlight Reflector



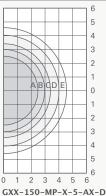
150-Watt MP 14,000-Lumen Lamp Type III



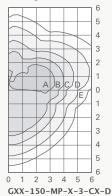
GXX-150-HPS-X-3C 150-Watt HPS 16,000-Lumen Lamp Type III Cutoff



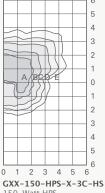
CAX-100-HPS-X-5C 100-Watt HPS 9.500-Lumen Lamp Cascade Type V Cutoff



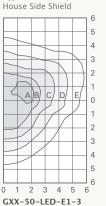
150-Watt MP 14,000-Lumen Lamp Type V w/Glow Top + Downlight Reflector



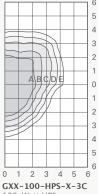
150-Watt MP 14,000-Lumen Lamp Type III w/Downlight Reflector Type V



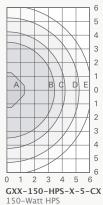
150-Watt HPS 16,000-Lumen Lamp Type III Cutoff w/



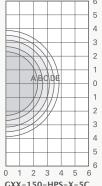
58-Watt LED 4,880-Source Lumens Type III



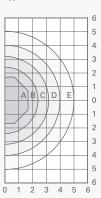
100-Watt HPS 9.500-Lumen Lamp Type III Cutoff



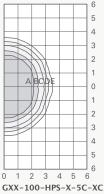
150-Watt HPS 16,000-Lumen Lamp



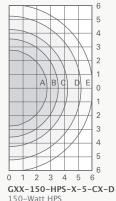
GXX-150-HPS-X-5C 150-Watt HPS 16,000-Lumen Lamp Type V Cutoff



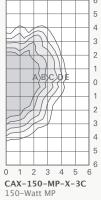
GXX-50-LED-E1-5 58-Watt LED 4,880-Source Lumens Type V



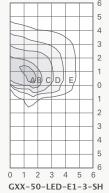
100-Watt HPS 9.500-Lumen Lamp Type V Cutoff w/Cage



150-Watt HPS 16,000-Lumen Lamp Type V w/Downlight Reflector



14,000-Lumen Lamp Cascade Type III Cutoff



58-Watt LED1 4.880-Source Lumens1

Type III w/House Side Switchina

FOOTCANDLE TABLE

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Footcandle Values for					
Height	Isofo	Isofootcandle Lines			
	A	В	С	D	E
150W [3-	AX-D/	5-AX-	D]		
10'	1.00	0.50	0.20	0.10	0.05
12'	0.69	0.35	0.14	0.07	0.04
15'	0.44	0.22	0.09	0.05	0.02

100W [3C/5C-X	(C]			
10'	2.88	1.44	0.72	0.29	0.15
12'	2.00	1.00	0.50	0.20	0.10
15'	1.28	0.64	0.32	0.13	0.06

FOOTCANDLE TABLE

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mountin	g Foo	tcand	le Valu	es for	
Height	Iso	footca	ndle Li	nes	
	Α	В	С	D	Е
150W [3	-CX/3	-CX-E)/5-CX	/5-CX-	D]

ricigiic	13010	occum	uic Liii	C3	
	Α	В	C	D	Ε
150W [3	-CX/3-	CX-D/	5-CX/5	S-CX-D)]
10'	2.00	1.00	0.50	0.20	0.10
12'	1.38	0.69	0.35	0.14	0.04
15'	0.88	0.44	0.22	0.09	0.02

FOOTCANDLE TABLE

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

wount	ing root	canaie	vaiue	s for	
Height	Isofo	otcan	dle Lin	es	
	Α	В	C	D	Ε
150W	[3C/3C-F	IS/5C]			
10'	2.25	1.13	0.45	0.23	0.11
12'	1.56	0.78	0.31	0.16	0.08
15'	1.00	0.50	0.20	0.10	0.05

150W	[3C-Casc	ade]			
10'	1.00	0.50	0.20	0.10	0.05
12'	0.69	0.35	0.14	0.07	0.04
15'	0.44	0.22	0.09	0.05	0.02

FOOTCANDLE TABLE

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Footcandle Values for Isofootcandle Lines

	А	В	C	D	E
100W [5C-Casc	ade] 5 8	BW [LEI	D]	
10'	1.00	0.50	0.20	0.10	0.05
12'	0.69	0.35	0.14	0.07	0.04
15'	0.44	0.22	0.09	0.05	0.02



GENERATION SERIES—HID ®

ORDERING INFORMATION

SAMPLE NUMBER: GAR-150-MP-120-3-ACV-BZ

PRODUCT FAMILY GAR=Acorn Base CAA=Cascade w/ Acorn Base 1, 2 **GAT**=Architectural Base CAR=Cascade w/ Architectural Base 1, 2 GLC=Classical Base CAC=Cascade w/ Classical Base 1, 2

IAMP WATTAGE 3 MP 50=50W **70**=70W 100=100W 150=150W 175=175W 250=250W 320=320W **HPS** 50=50W **70**=70W 100=100W 150=150W 250=250W MH⁴ 175=175W 250=250W 400=400W 5

LAMP **VOLTAGE** ⁶ **TYPE** 120=120V MP=Pulse 208=208V Start 240=240V Metal 277=277V Halide 480=480V **HPS**=High 347=347V MT=Multi-Tap 7 Pressure Sodium TT=Triple-Tap 7

REFRACTOR TOP TYPE TYPE 3=Type III 3C=Cutoff Type III **5**=Type V **5C**=Cutoff Type V

A=Acorn 8 C=Classical L=Lantern [Top Access] 1 M=Modern 8 N=Nostalgic [Top Access] R=Architectural [Top Access] **U**=Avenue [Top Access] 9

V=Victorian 8

CAGE TYPE A=Architectural C=Classical M=Modern U=Avenue 9 L=Lantern 1 X=None

FINIAL TYPE A=Architectural M=Modern N=Nostalgic V=Victorian X=None

COLORS 10 [add as suffix] AP=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **GN**=Hartford Green WH=White

OPTIONS + **ACCESSORIES** [see below]

OPTIONS + ACCESSORIES [Must be listed in the order shown and separated by a dash]

MH=Metal

Halide 4

OPTIONS [add as suffix]

F=Single Fuse [120, 277 or 347V] 11 FF=Double Fuse [208, 240 or 480V] 11 L=Lamp Included

A=Twistlock Refractor 8 B=Decorative Brass Banding 12 P=Polycarbonate Refractor 8, 13 R=Internal NEMA Photocontrol Receptacle **G**=Gold Cage and Finial D=Downlight Reflector 8 CA=Copper Anodized Accents 2, 14

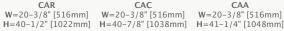
CC=Matte Black Electrical Cover² HS=House Side Shield²

ACCESSORIES [order separately]

OA/RA1016=NEMA Twistlock Photocontrol—Multi-Tap OA/RA1027=NEMA Twistlock Photocontrol—480V OA/RA1201=NEMA Twistlock Photocontrol—347V AA2000=House Side Shield—Mogul-Base Socket® AA2001=House Side Shield—Medium-Base Socket 8 MA1220=House Side Shield—Cutoff²

DIMENSIONS





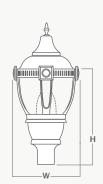


CAC

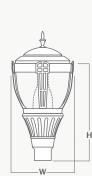
CSA Listed ISO 9001 CO [Cutoff]



CAA



GAT W=18-4/5" [478mm] H=24" [610mm]



GLC W=17-3/5" [447mm] H=24-3/4" [610mm]



GAR W=18-3/4" [476mm] H=25-1/3" [643mm]



GAT Avenue W=25-3/8" [645mm] H=37-3/8" [949mm]

CERTIFICATIONS

25°C Ambient Temperature
3.5G Vibration Tested [2G Cascade]
U.L. Listed

NOTE * In select configurations only.

WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide	50, 70, 100, 150, 175, 250, 320W
High Pressure Sodium	50, 70, 100, 150, 250W
Metal Halide	175, 250, 400W

EPA

Effected Projected Area		
GAT/GLC/GAR 2.1		
CAR/CAC/CAA 2.4		

SHIPPING DATA

Approximate Net Weight GAT/GLC/GAR 50 [23 kgs.] CAR/CAC/CAA 50 [23 kgs.]

STANDARD COLORS















GM	GN
Graphite Metallic	Hartford Green

GENERATION SERIES—LED

ORDERING INFORMATION

SAMPLE NUMBER: GAR-50-LED-E1-3-MMM-BK

PRODUCT FAMILY GAR=Acorn Base GAT=Architectural Base GLC=Classical

Base

PACKAGE 50=5000 Lumens ¹ SOURCE TYPE I LED=Solid State Light Emitting Diodes

VOLTAGE REFR. E1=Electronic TYPE [120-277V] 3=Tyl 5=Tyl

REFRACTOR TOP TYPE
TYPE A=Acorn
3=Type III C=Classical
5=Type V M=Modern
N=Nostalgic
[Top Access]
R=Architectural

[Top Access]
U=Avenue
[Top Access]
V=Victorian

CAGE TYPE
A=Architectural
C=Classical

C=Classical M=Modern U=Avenue X=None FINIAL TYPE

A=Architectural

M=Modern

N=Nostalgic

V=Victorian

X=None

COLORS ² [add as suffix] AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic GN=Hartford Green

OPTIONS +
ACCESSORIES
[see below]

WH=White

OPTIONS + **ACCESSORIES** [Must be listed in the order shown and separated by a dash]

OPTIONS [add as suffix]
A=Twistlock Refractor
B=Decorative Brass Banding ³
P=Polycarbonate Refractor
R=Internal NEMA Photocontrol Receptacle
G=Gold Cage and Finial
D=Downlight Reflector
2L=Bi-Level Switching Capable
SH=Street Side/House Side Switching Capable

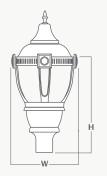
ACCESSORIES [order separately]
MA1252=10kV Circuit Module Replacement

GLR-50-E1=5000 Lumen LED Replacement Module with 120-277V Universal Driver

GLR-50-E1-2L=5000 Lumen LED Replacement Module with 120-277V Universal Driver and Bi-Level Switching Capable

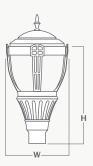
GLR-50-E1-SH=5000 Lumen LED Replacement Module with 120-277V Universal Driver and Street Side/ House Side Switching Capable

DIMENSIONS

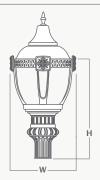


8030=80 CRI/3000K CCT 4

GAT W=18-4/5" [478mm] H=24" [610mm]



GLC W=17-3/5" [447mm] H=24-3/4" [610mm]



GAR W=18-3/4" [476mm] H=25-1/3" [643mm]



GAT Avenue W=25-3/8" [645mm] **H**=37-3/8" [949mm]

CERTIFICATIONS

40°C Ambient Temperature	CSA Listed
3.5G Vibration Tested	ISO 9001
U.L. Listed	CO [Cutoff] *

NOTE * In select distributions only.

WATTAGE TABLE

Source Type	Wattage	
LED	58W	

EPA

Effected Projected Area
GAT/GLC/GAR 2.1

SHIPPING DATA

Approximate Net Weight
GAT/GLC/GAR 50 [23 kgs.]

STANDARD COLORS



Cooper Lighting, LLC.

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269

P: 770-486-4800 F: 770-486-4801

www.cooperlighting.com

International Sales, USA

Cooper Lighting, LLC. 1121 Highway 74 South Peachtree City, GA 30269

P: 770-486-4800 F: 770-486-4801

Canada

Cooper Lighting, LLC. 5925 McLaughlin Road Mississauga, Ontario L5R 1B8

P: 905-507-4000 F: 905-568-7049 The Cooper Lighting Family

Halo
Metalux
Lumark
Sure-Lites
Neo-Ray
Corelite
Portfolio
Iris
Shaper
io
Lumière

Invue McGraw-Edison Streetworks Fail-Safe PDS

MWS RSA Ametrix

Domestic Facilities

Cranbury, New Jersey Elk Grove Village, Illinois Irving, Texas Ontario, California Peachtree City, Georgia **Canadian Facilities**

Calgary, Alberta T2E 7V9 Mississauga, Ontario L5R 1B8

Cooper Lighting, McGraw-Edison, Generation Series and SustainabLEDesign logos are valuable trademarks of Cooper Industries in the United States and other countries. You are not permitted to use the Cooper Trademarks without the prior written consent of Cooper Industries.

Cooper Industries, Ltd. 600 Travis, Ste. 5600 Houston, TX 77002-1001 P: 713-209-8400 www.cooperindustries.com



ADH090563 Printed in USA