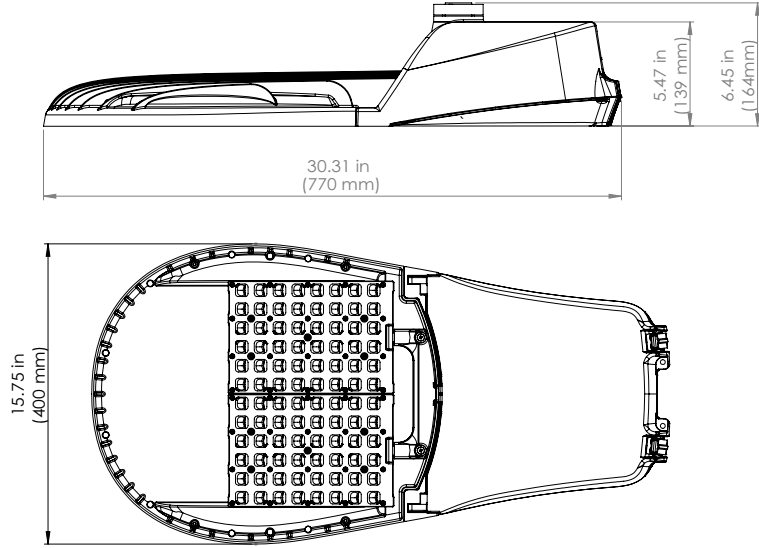


GreenCobra™ LED Street Light

GC2 G-Series Specification Data Sheet

Luminaire Data

Weight 25 lbs [11.3 kg]
EPA 0.77 ft²



Ordering Information

Sample Catalog No. GC2-96G-MV-NW-2R-GY-700-FDC

Product	LED Code	Voltage	Color Temperature	Distribution	Finish ¹	Drive Current Code ²	Options
GC2 (700mA Max)	96G	MV 120-277V	WW 3000K	2R Type 2 Medium	GY Gray	350	FDC ³ Fixed Drive Current
		HV 347-480V	NW 4000K				
GC2 (1A Max)	96G		CW 5000K	3R Type 3 Medium	BK Black	610	LSSP ² Extreme Surge Protection, Fail-to-off, 20kV/10kA Rating
				4 Type 4		700	PCR7 ⁴ ANSI 7-wire Photocontrol Receptacle
				5 Type 5		Drive Current Code ²	PCR7-CR ⁵ Control Ready 7-wire Photocontrol Receptacle
						750	WL Utility Wattage Label
						800	DSC Door Safety Cable
						900	CF ⁶ Coastal Paint Finish
						975	
						1A	

- Notes:
- 1 Gray, Black and Dark Bronze standard, consult factory for other finishes.
 - 2 Specified drive current code is the factory set drive current. Field adjustable current selector enables fixture to be changed in the field to adjust light output for local conditions (not available with Fixed Drive Current (FDC) or PCR7-CR option). Consult factory if wattage limits require a special drive current.
 - 3 Non-field adjustable, fixed drive current. Specify required drive current. Not available with PCR7-CR option.
 - 4 Includes current selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.
 - 5 Control-ready wired at factory for wireless none dimming (node by others). Current selector not included in the fixture. Not able to adjust above specified drive current.
 - 6 Specify the CF Option for coastal installation. See warranty for details.
 - 7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire. Specify model and color.
 - 8 Specify Color (GY, DB, BK)
 - 9 Specify MV (120-277V) or HV (347-480V).

Accessories*	
HSSGC2 ⁷	House Side Shield
SPB ⁸	Square Pole Horizontal Arm Bracket
RPB ⁸	Round Pole Horizontal Arm Bracket
PTB ⁸	Pole Top Tenon Horizontal Arm Bracket
PTB2 ⁸	Pole Top Tenon Horizontal Arm Bracket (2@180°)
WB ⁸	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
LLPC ⁹	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number. For factory-installed HSS, consult factory



Luminaire Specifications

Housing

Die cast aluminum housing with universal four-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. All hardware is stainless steel material. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from +10° to -5° in 2.5° steps and integral bubble level standard. Electrical components are accessed without tools and are mounted on removable power door with stainless steel latches. Standard rubber wildlife guard conforms to mast arm with no gaps.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21 (L90 = 100k hours). LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability

LED drive current can be changed in the field to adjust light output for local conditions (not available with Fixed Drive Current (FDC) or PCR7-CR option). The specified drive current code will be the factory set drive current. Field adjustments can be made with the current selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems

Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4, or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Tools required for field installation

Electrical

Rated life of electrical components is 100,000 hours minimum. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire and is aligned for straight wire entry. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacle is available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures. IES files for all CCTs are available at leotek.com.

Warranty

10-year limited warranty is standard on luminaire and components.

Standards

Luminaire complies with:
ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77
Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Performance Data: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Field Adjustable Output Range
GC2 (700mA Max)	96G	350	106	14,000	132	↕
		450	130	16,900	130	
		530	159	20,400	128	
		610	180	22,400	124	
		700	209	25,400	122	
GC2 (1A Max)	96G	750	226	26,900	119	↕
		800	242	28,200	117	
		900	273	30,900	113	
		975	289	32,200	111	
		1A	310	34,000	110	

Notes:

1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

Performance Data: 4000K (NW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Field Adjustable Output Range
GC2 (700mA Max)	96G	350	106	14,600	138	↕
		450	130	17,600	135	
		530	159	21,100	133	
		610	180	23,400	130	
		700	209	26,700	128	
GC2 (1A Max)	96G	750	226	28,300	125	↕
		800	242	29,800	123	
		900	273	32,700	120	
		975	289	34,100	118	
		1A	310	35,800	115	

Notes:

1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

Performance Data: 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Field Adjustable Output Range
GC2 (700mA Max)	96G	350	106	14,600	138	↕
		450	130	17,600	135	
		530	159	21,100	133	
		610	180	23,400	130	
		700	209	26,700	128	
GC2 (1A Max)	96G	750	226	28,300	125	↕
		800	242	29,800	123	
		900	273	32,700	120	
		975	289	34,100	118	
		1A	310	35,800	115	

Notes:

1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.

BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 5 BUG Rating
GC2 (700mA Max)	96G	350	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
		450	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
		530	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
		610	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
		700	B3-U0-G3	B3-U0-G3	B4-U0-G3	B5-U0-G3
GC2 (1A Max)	96G	750	B3-U0-G3	B3-U0-G3	B4-U0-G3	B5-U0-G3
		800	B3-U0-G3	B3-U0-G3	B4-U0-G3	B5-U0-G3
		900	B3-U0-G3	B4-U0-G4	B4-U0-G3	B5-U0-G3
		975	B3-U0-G3	B4-U0-G4	B4-U0-G4	B5-U0-G3
		1A	B4-U0-G3	B4-U0-G4	B4-U0-G4	B5-U0-G3

BUG Ratings: 4000K (NW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 5 BUG Rating
GC2 (700mA Max)	96G	350	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
		450	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
		530	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
		610	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
		700	B3-U0-G3	B3-U0-G3	B4-U0-G3	B5-U0-G3
GC2 (1A Max)	96G	750	B3-U0-G3	B4-U0-G4	B4-U0-G4	B5-U0-G3
		800	B3-U0-G3	B4-U0-G4	B4-U0-G3	B5-U0-G3
		900	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G3
		975	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
		1A	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4

BUG Ratings: 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product	LED Code	Drive Current Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 5 BUG Rating
GC2 (700mA Max)	96G	350	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G2
		450	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
		530	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G2
		610	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
		700	B3-U0-G3	B3-U0-G3	B4-U0-G3	B5-U0-G3
GC2 (1A Max)	96G	750	B3-U0-G3	B4-U0-G4	B4-U0-G4	B5-U0-G3
		800	B3-U0-G3	B4-U0-G4	B4-U0-G3	B5-U0-G3
		900	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G3
		975	B3-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4
		1A	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G4