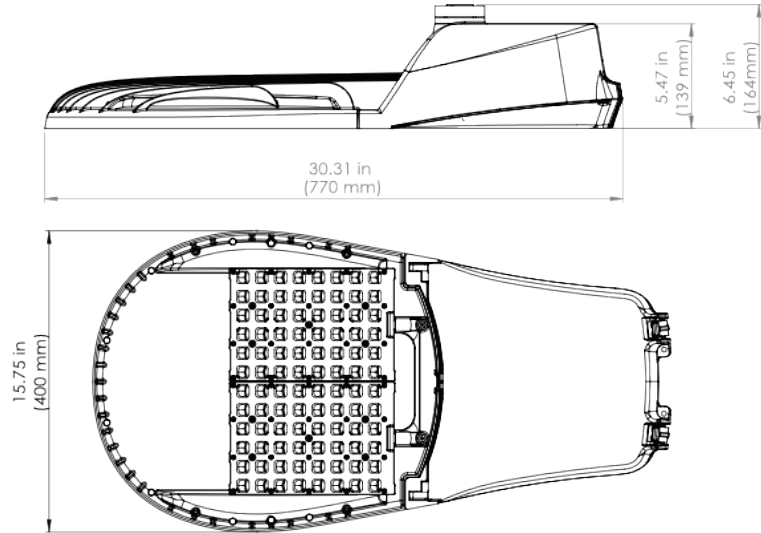


GreenCobra™ LED Streetlight

GC2 N-Series Specification Data Sheet

Luminaire Data

Weight 25 lbs [11.3 kg]
EPA 0.77 ft²



Ordering Information

Sample Catalog No. GC2-96N-MV-NW-2R-GY-750-PCR7-CR-BABA

Product	LED Code	Voltage	Color Temperature	Distribution	Finish ¹	Drive Current Code ²	Options					
GC2 If Build America, Buy America Act (BABA) compliance is required, please refer to 'BABA Domestic Build Option' located under 'General Options' and refer to footnote #10 for additional details.	96N	MV 120-277V HV 347-480V	22K 2200K 27K 2700K WW 3000K NW 4000K CW 5000K	2R Type 2 Medium	GY Gray DB Dark Bronze BK Black	350	FDC ³ Fixed Drive Current					
						450	LPCR Less Photocontrol					
						540	Receptacle					
				3R Type 3 Medium		600	PCR7 ⁴ ANSI 7-wire Photocontrol					
						750	Receptacle					
						820	PCR7-CR ⁵ Control Ready 7-wire					
				4 Type 4		930	Photocontrol Receptacle					
						1050	Utility Wattage Label					
				4F Type 4F			DSC Door Safety Cable					
							CF ⁶ Coastal Paint Finish					
				5 Type 5			LSSP2 20/10 SPD, fail-to-off					

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 color when ordering.
8. Specify Color (GY, DB, BK).
9. Specify MV (120-277V) or HV (347-480V).
10. The 'BABA' option must be specified to meet Oct. 1, 2026 Build America, Buy America Act (BABA) guidelines. Failure to specify the 'BABA' ordering code will result in receiving non-BABA compliant product (w/ no recourse for an RMA, product exchange or refund).
11. 'NB01P05/10' requires 'PCR7-CR' and is available in 'MV' 120-277V; contact factory for 'HV' 347-480V. A RenAI subscription and network data plan are required; see the LEOLink ordering page for details.

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 2200K (22K), 2700K (27K), 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.

Power Supply

IP66 rated power power supply with high power factor of > 90%. Auto sensing universal AC input from 120 to 277VAC (MV model) and 347 to 480VAC (HV mode) rated for both line to line and line to neutral applications. Maximum THD rating of 20%. Class 1 or Class 2. Built-in overheating protection mechanism will reduce drive current to LEDs and electrical components if the driver experiences unusual internal overheating situation. Built-in short circuit, voltage overload, and current overload protection with automatic recovery after correction.

LEOLink Intelligent Lighting System

ANSI C136.41 7-wire smart wireless controllers enable real-time monitoring and asset management when the luminaire is ordered with the 'PCR7-CR' option and an 'NB01P05/10' controller. RenAI supports remote monitoring, fault detection, energy data, schedules and performance control over standard 4G/5G IoT networks. A RenAI subscription and cellular data plan are required. See page 5.

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. Consult DLC QPL to confirm your specific fixture selection is DLC approved. All electronic components inside of the luminaire are NRTL damp location rated per ANSI 136.37-2011 Ingress Protection standard. International Dark Sky Association listed. 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. LEOLink Controllers can be specified with either 5-year or 10-year limited warranties. See LEOTEK.com for warranty details, terms and conditions.

Vandal Resistance

Housing and optics rated to IK10

Government Procurement Compliance

BAA- Buy America(n) Act: All LEOTEK luminaires qualify as a "Domestic End Product" per the Buy American Act as governed by FAR and DFARS.

BABA- Build America Buy America: All LEOTEK luminaires ordered with the 'BABA' option code are compliant per the Federal Highway Administration (FHWA).

Certification and Compliance

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

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	132
BK	Black	9004	130
DB	Dark Bronze	6022	128

TM21 Lumen Maintenance per IES-11 TM21-11 Calculation

Model Number	60,000 Hours*	80,000 Hours	100,000 Hours
All GC2 N	>96%	>96%	>95%

Performance Data: 2200K (22K)

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

Product	LED Code	Drive Output Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficiency (Lm/W)	Field Adjustable Output Range
GC2	96N	750	220	27045	123	
		820	243	29649	122	
		930	278	33037	119	

Notes:

1 Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.**Performance Data: 2700K (27K)**

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

Product	LED Code	Drive Output Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficiency (Lm/W)	Field Adjustable Output Range
GC2	96N	750	220	29532	134	
		820	243	32375	133	
		930	278	36074	130	
		1050	307	38804	126	

Notes:

1 Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.**Performance Data: 3000K (WW)**

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

Product	LED Code	Drive Output Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficiency (Lm/W)	Field Adjustable Output Range
GC2	96N	750	220	31086	141	
		820	243	34079	140	
		930	278	37973	137	
		1050	307	40846	133	

Notes:

1 Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.**Performance Data: 4000K (NW) and 5000K (CW)**

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

Product	LED Code	Drive Output Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficiency (Lm/W)	Field Adjustable Output Range
GC2	96N	750	220	32594	148	
		820	243	35576	146	
		930	278	39742	143	
		1050	307	42843	140	

Notes:

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

BUG Ratings: 2200K (22K)

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

Product	LED Code	Drive Output Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 4F BUG Rating	Type 5 BUG Rating
GC2	96N	750	B3-U0-G3	B3-U0-G3	B4-U0-G3	B3-U0-G4	B5-U0-G3
		820	B3-U0-G3	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		930	B3-U0-G3	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3

BUG Ratings: 2700K (27K)

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

Product	LED Code	Drive Output Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 4F BUG Rating	Type 5 BUG Rating
GC2	96N	750	B3-U0-G3	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		820	B3-U0-G3	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		930	B4-U0-G4	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
		1050	B4-U0-G4	B4-U0-G4	B4-U0-G4	B3-U0-G5	B5-U0-G4

BUG Ratings: 3000K (WW)

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

Product	LED Code	Drive Output Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 4F BUG Rating	Type 5 BUG Rating
GC2	96N	750	B3-U0-G3	B3-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		820	B3-U0-G3	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		930	B4-U0-G4	B4-U0-G4	B4-U0-G4	B3-U0-G5	B5-U0-G4
		1050	B4-U0-G4	B4-U0-G4	B5-U0-G4	B4-U0-G5	B5-U0-G4

BUG Ratings: 4000K (NW) and 5000K (CW)

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

Product	LED Code	Drive Output Code	Type 2R BUG Rating	Type 3R BUG Rating	Type 4 BUG Rating	Type 4F BUG Rating	Type 5 BUG Rating
GC2	96N	750	B3-U0-G3	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G3
		820	B4-U0-G4	B4-U0-G4	B4-U0-G4	B3-U0-G4	B5-U0-G4
		930	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G4
		1050	B4-U0-G4	B4-U0-G4	B5-U0-G4	B4-U0-G5	B5-U0-G4

LEOLink ILS™ Intelligent Lighting System for Tomorrow's Smart & Sustainable Cities**Smart...Scalable...Effortless**

LEOLink ILS is the next evolution in street lighting, integrating AI and IoT to transform a city's traditional outdoor lighting infrastructure into a smart, adaptive network. It empowers municipalities and utilities with real-time control, predictive maintenance, and rapid scalability, all with unmatched simplicity.

Integrating LEOTEK's AI-driven centralized management platform (LEOLink RenAI) with intelligent streetlight controllers, LEOLink ILS provides 24x7 visibility into the status and performance of streetlights enabling efficient energy use, real-time fault detection, and predictive maintenance across city-wide lighting networks. Easy "plug-and-play" deployment and scalability support users in achieving operational excellence, public safety, and long-term sustainability. With LEOLink ILS, cities are creating the backbone of a future-ready smart city.

Key Functions**Centralized, Remote Management**

Gain complete control of your city's smart lighting infrastructure from a single, intuitive platform.

Instant Response to Anomalies

Automatically identify and respond to abnormal lighting behavior in real-time.

AI-Powered Predictive Maintenance

Detect and address faults before they occur, minimizing downtime and maintenance costs.

Actionable Insights Through Data Visualization

Monitor asset performance and energy trends with clear, interactive dashboards and reports.

Energy Efficiency & Cost Savings

Optimize energy usage with intelligent scheduling and dimming, reducing operational expenses.

LEOLink Controllers Key Features & Benefits

The smartest fit for 7-PIN NEMA fixtures. Engineered to deliver seamless performance, trusted security, and plug-and-play simplicity, all in one powerful, next-generation controller.

**Self-Monitoring & Fault Detection**

Controllers continuously monitor the luminaire's operational status, identifying power outages, failures, and abnormal energy patterns for fast diagnostics and improved maintenance efficiency.

**Ultra-High Connectivity**

Dual-mode cellular communication using the world's most reliable and secure carriers ensures a 99.5% connection success rate, delivering reliable continuous data transmission even in challenging environments.

**Built-In Surge Protection**

Advanced surge protection against lightning and voltage spikes safeguards critical streetlight infrastructure.

**AI-Driven Adaptive Dimming**

Participates with LEOLink RenAI to enable intelligent dimming strategies, including human-centric lighting adjustments based on real-time traffic, weather, and pedestrian activity.

**Predictive Maintenance & Analytics**

Advanced failure analysis and predictive diagnostics move cities from reactive to preventative maintenance strategies that reduce downtime and operational costs.



*LEOLink 'NB01P05/10' Smart Controller

LEOLink RenAI Central Management System Key Features & Benefits

RenAI is an AI-powered, cloud-based Central Management System (CMS) that turns streetlighting into a dynamic, adaptive, and self-optimizing network. Using a native AI foundation, it analyzes both real-time and historical data—surpassing traditional CMS capabilities—to address the complex needs of modern roadway infrastructure. The result: improved energy efficiency, reduced operational costs, and enhanced public safety for utilities and municipalities.

**LiSA (LEOTEK intelligent Service Advisor)**

LiSA, our AI-powered assistant, is available 24/7 to streamline operations, quickly answering questions, generating charts and tables, and assisting with troubleshooting to lighten your team's workload.

**Asset Management**

Collect and track roadway infrastructure asset information such as streetlight fixtures, poles and controllers to drive operational efficiencies from field maintenance to life cycle management.

**Remote Control**

Remotely switch lights ON/OFF and adjust brightness via an intuitive user interface.

**Fault Detection & Notification**

Monitor streetlight health and status in real time to detect and receive instant fault alerts.

**Energy Consumption Management**

Track usage, identify trends, and forecast energy needs for optimal efficiency.

**Data Analysis & Reporting**

Access historical insights, visualize data, and generate reports for informed decision-making.

**Scheduled Dimming**

Automatically adjusts brightness levels based on ambient light and pre-set schedules.

**LEOLink Intelligent Lighting System (ILS) Ordering Information***

(*add to end of luminaire catalog number to ship controller with the luminaire)

Sample Catalog No. Luminaire w/ Controller: GC2-96N-MV-NW-2R-GY-750-PCR7-CR-BABA-**NB01P10-R10-D10** (controllers will ship included with the luminaire)

Sample Catalog No. for Controller Only: **NB01P05-R05-D05** (controllers will ship separately from the luminaire)

LEOLink Smart Controllers		RenAI CMS Subscription		Network Data Plan	
NB01P05 ¹	LEOLink 7-PIN Controller, 5YR Warranty (120-277V)	R01	RenAI, One Year SaaS Subscription	D01	Data Plan, One Year Subscription
NB01P10 ¹	LEOLink 7-PIN Controller, 10YR Warranty (120-277V)	R05	RenAI, Five Year SaaS Subscription	D05	Data Plan, Five Year Subscription
		R10	RenAI, Ten Year SaaS Subscription	D10	Data Plan, Ten Year Subscription
		R00 ²	RenAI, No SaaS Subscription	D00 ²	Data Plan, No Subscription

1. For each controller, a RenAI CMS Subscription 'RXX' and Network Data Plan 'DXX' is required. Please refer to the LEOLink ILS specification sheets and ordering guide for complete ordering and specification details.

2. 'R00' and 'D00' options require prior approval from LEOTEK. Please contact factory for details.