

# GC1

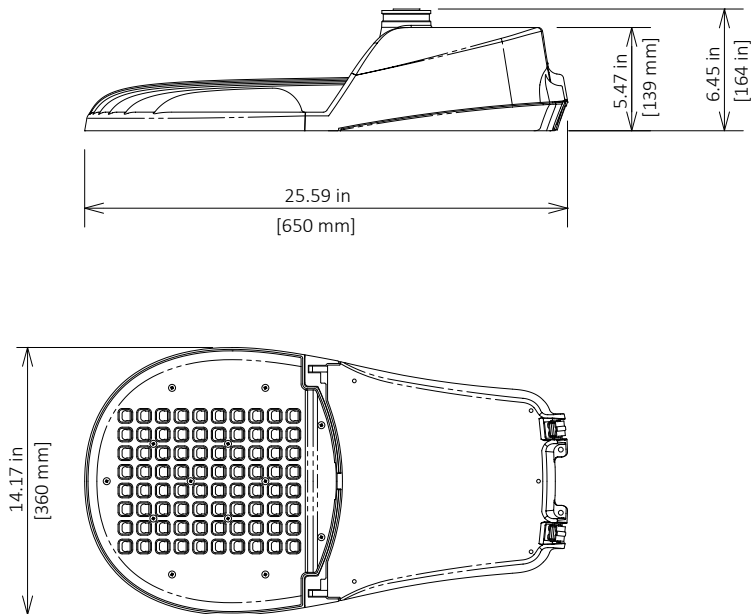
## GreenCobra™ LED Street Light

Project Wisconsin Department of Transportation  
 Type LED C Approved April, 2015  
 Catalog No.

### Luminaire Data

CAT. No. GC1-80F-MV-NW-3-GY-700-PCR-7-WL-WISDOT-C-SC

**Weight** 21 lbs [9.5 kg]  
**EPA** 0.9 ft<sup>2</sup>



### Ordering Information

Sample Catalog No. GC1 60F MV NW 2 GY 350 BSK RPB FDC

| GC1        | 80F                                                                | MV                                       | NW                             | 3                                  | GY                  | 700                                                                                  | PCR7-WL-WISDOT-C-SC                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|--------------------------------------------------------------------|------------------------------------------|--------------------------------|------------------------------------|---------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product    | No. & Type of LEDs                                                 | Voltage                                  | Color Temperature <sup>1</sup> | Distribution                       | Finish <sup>2</sup> | Drive Current <sup>3</sup>                                                           | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>GC1</b> | <b>20F</b><br><b>30F</b><br><b>40F</b><br><b>60F</b><br><b>80F</b> | <b>MV</b> 120-277V<br><b>HV</b> 347-480V | <b>NW</b> 4000K                | <b>2</b> Type 2<br><b>3</b> Type 3 | <b>GY</b> Gray      | <b>350</b> 350mA<br><b>530</b> 530mA<br><b>700</b> 700mA<br><b>1A<sup>4</sup></b> 1A | <b>BSK</b> Bird Spider Kit<br><b>SPB</b> Square Pole Bracket<br><b>RPB</b> Round Pole Bracket<br><b>PTB</b> Pole-Top Bracket<br><b>HSS<sup>5</sup></b> House Side Shield<br><b>FDC<sup>6</sup></b> Fixed Drive Current<br><b>LPCR</b> Less Photocontrol Receptacle<br><b>PCR5</b> ANSI 5-wire Photocontrol Receptacle<br><b>PCR7</b> ANSI 7-wire Photocontrol Receptacle<br><b>SC</b> PCR Shorting Cap<br><b>WL</b> Utility Wattage Label<br><b>WISDOT-C</b> Type C Label |

#### Notes:

- 1 Nominal 4000K standard, consult factory for other color temperatures.
- 2 Gray standard, consult factory for other finishes.
- 3 Factory set drive current, field adjustable standard. Refer to performance data on page 2.
- 4 1A drive current only available with 40F.
- 5 Flush mounted house side shield factory installed. Shield cuts light off at 1/2 mounting height behind luminaire.
- 6 Non-field adjustable, fixed drive current.

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## GreenCobra™ LED Street Light

### 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. Leveling adjustment from +10° to -5° and integral bubble level standard. Electrical components are accessed without tools and are mounted on removable power door. Power door features quick electrical disconnects to terminal block and LED board.

#### Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 95% of initial intensity at 100,000 hours of life. LEDs are tested in accordance with IES LM-80 testing procedures. Mean correlated color temperature of 4000K (standard) and 70 minimum CRI. LEDs are 100% mercury and lead free.

#### Optical Systems

Micro-lens systems produce IESNA Type 2 or Type 3 distributions. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0).

#### Electrical

Power supply drive current is field adjustable (350mA, 530mA or 700mA for the 700mA power supply or 530mA, 700mA or 1A for the 1A power supply). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Transient voltage complies with ANSI C62.41 Cat. A. Integral surge protector is tested per ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for Location Category C High. Photo-control receptacle is standard, ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) dimming receptacle optional. Photocontrol or control module is provided by others. Power Supply is 0-10V dimmable standard with PCR5 or PCR7 option.

#### Finish

Housing receives a fade and abrasion resistant, epoxy polyester powder coat, light gray finish standard.

#### Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. Optical systems maintain an IP66 rating. Design Lights Consortium qualified product. Assembled in the United States.

#### Photometry

Luminaires are photometrically tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

#### Warranty

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

### Performance Data

All data nominal, consult factory for IES files or LM-79 reports.

| No. of LEDs<br>& Type | Drive<br>Current (mA) | System<br>Wattage (W) | Delivered<br>Lumens (lm) | Efficacy<br>(lm/W) | Type 2        | Type 3        |
|-----------------------|-----------------------|-----------------------|--------------------------|--------------------|---------------|---------------|
|                       |                       |                       |                          |                    | BUG<br>Rating | BUG<br>Rating |
| 20F                   | 350                   | 24                    | 2500                     | 104                | B1 U0 G1      | B1 U0 G1      |
|                       | 530                   | 35                    | 3600                     | 103                | B1 U0 G1      | B1 U0 G1      |
|                       | 700                   | 47                    | 4600                     | 98                 | B1 U0 G1      | B1 U0 G1      |
| 30F                   | 350                   | 36                    | 3800                     | 106                | B1 U0 G1      | B1 U0 G1      |
|                       | 530                   | 53                    | 5300                     | 100                | B1 U0 G1      | B2 U0 G2      |
|                       | 700                   | 70                    | 7000                     | 100                | B2 U0 G2      | B2 U0 G2      |
| 40F                   | 350                   | 48                    | 5100                     | 106                | B1 U0 G1      | B2 U0 G2      |
|                       | 530                   | 70                    | 7100                     | 101                | B2 U0 G2      | B2 U0 G2      |
|                       | 700                   | 94                    | 9300                     | 99                 | B2 U0 G2      | B2 U0 G2      |
|                       | 1000                  | 132                   | 12300                    | 93                 | B3 U0 G3      | B3 U0 G3      |
| 60F                   | 350                   | 68                    | 7400                     | 109                | B2 U0 G2      | B2 U0 G2      |
|                       | 530                   | 105                   | 11000                    | 105                | B2 U0 G2      | B3 U0 G3      |
|                       | 700                   | 145                   | 14500                    | 100                | B3 U0 G3      | B3 U0 G3      |
| 80F                   | 350                   | 85                    | 9600                     | 113                | B2 U0 G2      | B2 U0 G2      |
|                       | 530                   | 134                   | 14200                    | 106                | B3 U0 G3      | B3 U0 G3      |
|                       | 700                   | 183                   | 18100                    | 99                 | B3 U0 G3      | B3 U0 G3      |