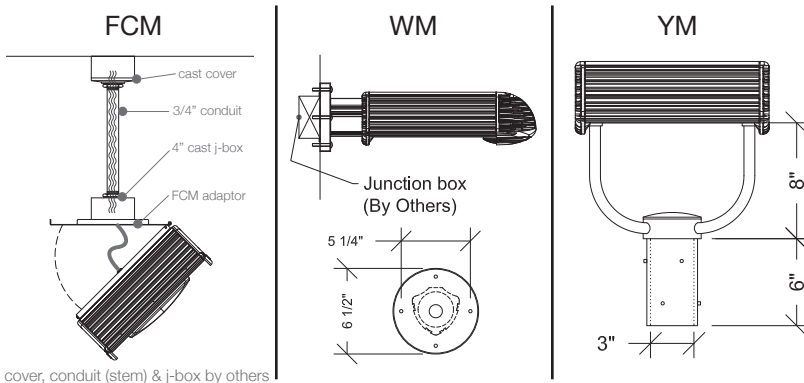
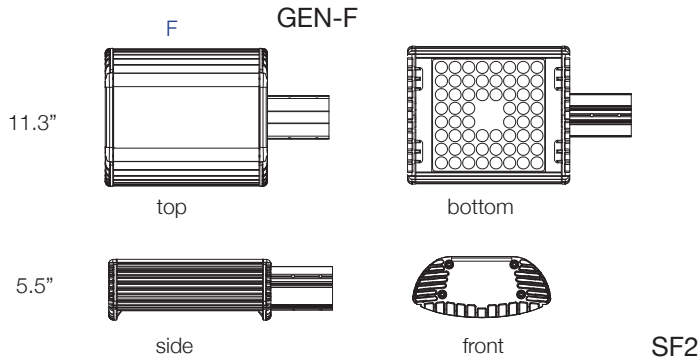
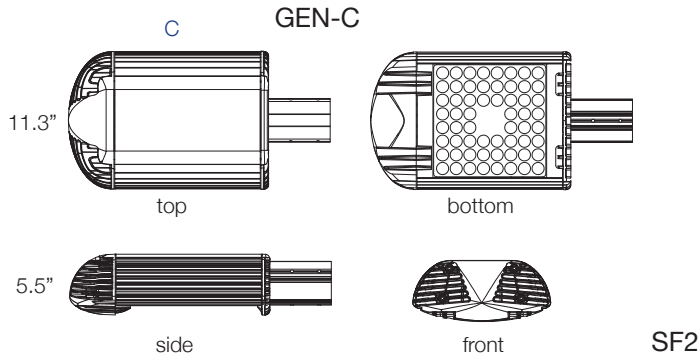




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Dimensions



Source

Engine	Delivered Lumens	# of LEDs	LED Type (cct) <sup>4</sup>	Current	System Wattage	Length (C/F) in	Weight (C/F) lbs	EPA (C/F) ft <sup>2</sup>	Type
24-G-700	3,823	24	XP-G (4500K)	700mA	58	28 / 25	33 / 28	1.0 / .9	II
36-G-700	5,735	36	XP-G (4500K)	700mA	87	28 / 25	33 / 28	1.0 / .9	II
60-G-700	9,558	60	XP-G (4500K)	700mA	144	34 / 31	40 / 35	1.2 / 1.1	II
120-G-700	18,160	120	XP-G (4500K)	700mA	295	56 / 53	54 / 39	1.6 / 1.5	II
24-G-700	4,084	24	XP-G (4500K)	700mA	58	28 / 25	33 / 28	1.0 / .9	IV
36-G-700	6,127	36	XP-G (4500K)	700mA	87	28 / 25	33 / 28	1.0 / .9	IV
60-G-700	10,211	60	XP-G (4500K)	700mA	144	34 / 31	40 / 35	1.2 / 1.1	IV
120-G-700	19,401	120	XP-G (4500K)	700mA	295	56 / 53	54 / 39	1.6 / 1.5	IV
24-G-700	4,163	24	XP-G (4500K)	700mA	58	28 / 25	33 / 28	1.0 / .9	V
36-G-700	6,573	36	XP-G (4500K)	700mA	87	28 / 25	33 / 28	1.0 / .9	V
60-G-700	11,108	60	XP-G (4500K)	700mA	144	34 / 31	40 / 35	1.2 / 1.1	V
120-G-700	21,105	120	XP-G (4500K)	700mA	295	56 / 53	54 / 39	1.6 / 1.5	V
24-G-700	4,723	24	XP-G (4500K)	700mA	58	28 / 25	33 / 28	1.0 / .9	F50
36-G-700	7,084	36	XP-G (4500K)	700mA	87	28 / 25	33 / 28	1.0 / .9	F50
60-G-700	11,807	60	XP-G (4500K)	700mA	144	34 / 31	40 / 35	1.2 / 1.1	F50
120-G-700	22,433	120	XP-G (4500K)	700mA	295	56 / 53	54 / 39	1.6 / 1.5	F50

Consult factory for additional options

Model:

- GEN-C Genesis Luminaire, curved front
- GEN-F Genesis Luminaire, flat front

Source:

- 24-X-XXX see chart below
- 36-X-XXX see chart below
- 60-X-XXX see chart below
- 120-X-XXX see chart below

Voltage:

- UNV universal Voltage (120-277V)
- 347 347V<sup>5</sup>
- 480 480V<sup>5</sup>
- 12DC 12V D.C. (for solar power assembly)<sup>5</sup>

Optics:

- T2 type II
- T4 type IV (forward throw)
- T5 type V
- F50 type V narrow (50°)<sup>6</sup>

Electrical Options:

- PEC-T twist-lock photocell receptacle
- 1PF Single power feed
- 2PF Two power feeds for bi-level control<sup>2</sup>

Mounting:

- SF2 2-3/8" Slip Fitter
- FCM canopy mount (direct ceiling & stem adaptor)
- WM wall mount
- YM yoke mount<sup>7</sup>

Color<sup>1</sup>:

Anodized housing with painted end caps

- AND natural anodized housing (specify end cap color)

Painted housing and end caps

- BB black (housing and end caps)
- BZ bronze (housing and end caps)
- WH white (housing and end caps)
- BG green
- BW white (housing and end caps)
- BY gray
- MB metallic bronze
- MT metallic titanium

Ordering Example

GEN-C / 60-G-700 / UNV / DIR5 / 1PF / PEC-T / SF2 / AND-MT

1. Heat-sinking housing shall be natural anodized finish an optionally painted. Mounting apparatus and end caps shall be painted a corresponding color.
2. Control by others
3. Utilizes step-down transformer (-12W load: 6W static, 6W conversion)
4. +/- 250°K min. 73 CRI, Consult factory for additional color temperature options
5. Solar power assemblies offered by Beacon Products, consult factory for details
6. Canopy mount only
7. Both end caps will use same profile casting (curved or flat) when a yoke mount option is selected

## Specifications

### General:

The Genesis luminaire is an area lighting luminaire which is comprised of a mounting apparatus (Ø2-3/8" slip fitter or wall bracket), heat-sinking housing, removable end cap, enclosed LED engine/optical system and pullout component tray.

All cast aluminum parts are marine grade aluminum. Extruded aluminum housing is fully anodized 6063-T6 aluminum alloy

### Mounting:

Luminaire mounting shall be made through a slip fitter which accommodates a standard Ø2-3/8" x 4" mounting arm and allows for 3.5° of adjustability in all axes. Luminaire shall be secured in place by six stainless steel setscrews.

### Housing:

The Genesis luminaire utilizes a patent-pending heat sink housing, which through the use of horizontally-opposed fins, provides a minimum of 6.9ft<sup>2</sup> of surface area to dissipate heat away from sensitive LED components. The downward curving, horizontally-opposed fins also prevent sediment and moisture from accumulating on the housing surfaces, thus maintaining thermal performance throughout the lifetime of the luminaire. The extruded housing may be increased in length to adapt to extreme environments or to provide additional service life, consult factory for details.

### Servicing:

Internal components may be accessed without the need to lower or remove the luminaire. Access is made by loosening a single captive fastener and opening the hinging end cap located on the front of the Genesis luminaire housing.

### Electrical Assembly (Drivers):

The electrical assembly is mounted to an aluminum tray that may be removed without the use of tools. The electronic IP-67 compliant driver(s) are mounted with stainless steel fasteners to the removable component tray. LED driver(s) have a high-temperature, flame-resistant (UL 94V-0 minimum) enclosure. The input voltage range is 120-277 VAC, 47 to 63 Hz with a 90% power factor at full load. An integral step-down transformer may be provided when a 347V or 480V input voltage is required (consult factory). Load regulation shall be +/- 3%. LED driver(s) have output over voltage, over current protection and output short circuit protection with auto recovery. LED drivers are rated for 385K hours (MTBF). Operating temperature is -30°C to 60°C. Dual drivers may be wired for bi-level switching or control. The LED electrical assembly, including PE devices, consumes no power when in the off state.

### Electrical Assembly (LED Source):

The LED source shall be rated for a minimum of 50K hours (70% lumen maintenance @ 25°C ambient temperature), based on physical thermal testing correlated to LM-80 data provided by CREE. The LED source is mounted to the luminaire's heat-sinking housing and sealed to IP66 standards behind a thermoformed acrylic lens. LED color temperature shall be ~4500°K (+/- 250°K). CRI shall be a minimum of 73.

### Design Life:

LED module shall deliver at least 70% of initial lumens, when installed for a minimum of 50K hours.

### Lightning Surge Protector:

The onboard lightning surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 10,000 Amps using the industry standard 8/20 µSec wave. The LSP shall have a clamping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure.

### Agency Certification:

The luminaire shall bear a CSA label and be marked suitable for wet locations.

### Optical System:

The array of high-powered LEDs delivers task-specific light levels through Beacon's specially designed optical-grade acrylic lenses. The IESNA type III or V light pattern is produced by each LED/lens and is not dependent on unique aiming. Since the LEDs are not uniquely aimed, a 1:1 ratio exists between the number of LEDs and the measured light. This enables each isolated circuit on board the Genesis to be independently switched or dimmed, allowing for the reduction of energy during periods of vacancy without compromising coverage.

### Fasteners:

All fasteners shall be stainless steel. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, consult factory).

### Warranty:

The Genesis luminaire is warranted for a minimum of (5) Years. The Warranty shall provide for the repair or replacement of defective mechanical and electrical parts including but not limited to the mounting apparatus, heat-sinking housing and the enclosed LED engine/optical system.

### Finish:

The extruded luminaire heat-sinking housing shall be fully anodized (clear). Housing may be optionally powder coated. End caps are powder coated. Beacote-V (AAMA 2604) powdercoat finish shall be polyester powdercoat paint electrostatically applied, thermocured and warranted for a period of 5 years. Beacote-X (AAMA 2605) finish may be optionally selected and shall be warranted for a period of 10 years (consult factory for details). Luminaires shall be subjected to chemical pre-treatment prior to painting by full immersion process.



Manufactured in the U.S.A.  
Made from domestic and imported parts.  
Meets Buy America requirements as defined by the ARRA.