



Green Star GL/AS LED Roadway Luminaire

Construction – Heavy-duty cast aluminum housing and corrosion resistant hardware provides strength of construction and longevity in application. Powder-coated finish and IP65 construction provides durable resistance to the outdoor environment.

On-Board Lighting Controls – Integral digital photocells provide on-board lighting controls and have a rated life of greater than 15* years which removes the requirement for traditional NEMA receptacle photocells. Long operational life of on-board photocells is provided by a set of four redundant photocells. In the event one or more photocells fail to operate the remaining photocells will continue to provide normal operation of the luminaire. Standard on-board lighting control programming provides 30% and 70% dimming based on ambient light levels. Custom programming may be specified for on/off/dim settings at customer specified light levels (5 to 60 fc).

Electrical – High-efficiency 4100K/6000K, 70CRI LEDs are mounted to a metal core printed circuit board which is installed onto the finned LED heat sink to maximize thermal management and provide long operating life for the LEDs (rated life 100,000 hrs, 40°C ambient L85** based on 9,000 hours of LED testing per LM-80-08. LED life based on projected values per IESNA TM21-11). Variable voltage input drivers (90-285v; 50/60 Hz) have a high power factor >95% and low THD <10%. Built-in surge protection ensures reliable operation. Separated LED driver design provides long life of electrical components by providing thermal separation of electrical components from LED heat sink.

Optics – Precision-molded, high-impact, optical-grade PMMA lens providing uniform Type II standard and Type II wide distribution. Keyed lens assembly ensures consistent optical performance across a broad range of available outputs.

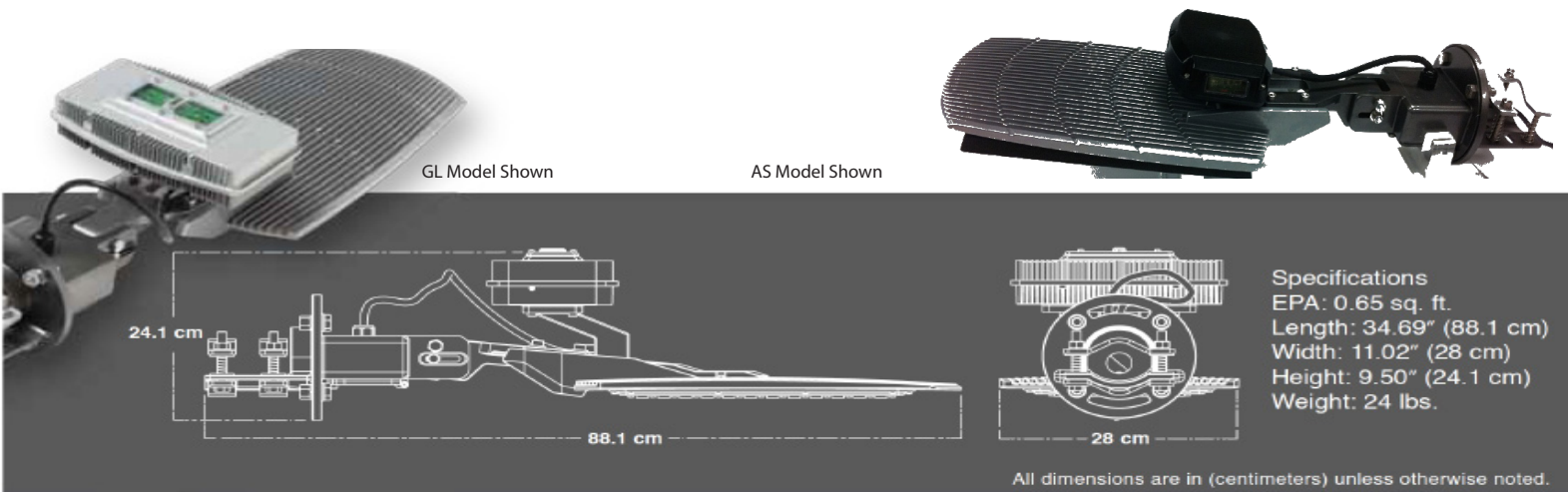
Mounting – The Green Star GL and AS luminaire mounts to 1.25"-3" O.D. round pole using the standard pole mounting kit. The pole mounting kit may be removed for optional wall mounting. The optical housing may be field adjusted from -10° to +50° tilt. The GL/AS can also be ordered with an arm that adjusts from -90° to +90° providing the ability to mount to a pole or wall (patent pending) and meet photometric demand in many different applications and includes a junction box with a terminal block.

Listings – cETLus listed. DesignLights™ Consortium qualified. IP65 rated. ETL listed. Suitable for ambient temperatures from -30° to 40°C (-22° to 104°F). RoHS compliant.

Warranty – 5-year limited warranty. Consult manufacturer for additional terms and conditions.

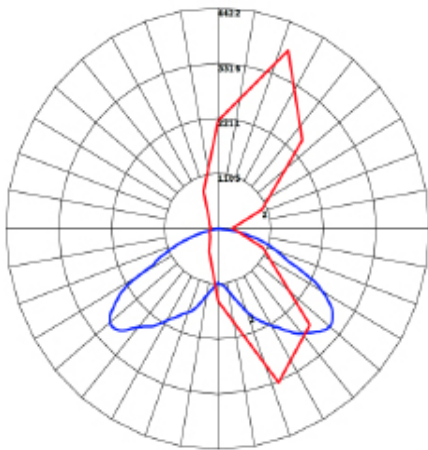
Example: **GL48412SV1SAGR**

| Model Designator | LED Quantity | CCT | Distribution | Voltage | Mounting | Housing Color | Options |
|------------------|--------------|-------------|---------------------|-------------|------------------------------------|----------------------|---|
| AS | 18 | 41 = 4,100K | 2S=Type II Standard | V1= 90-285v | SA= Standard Arm WM= Wall Mount | GR = Silver/ Gray | Blank = Standard Factory Programming ON at <5fc 70% Output at 5fc to 30fc 30% Output at 30fc to 60fc OFF at >60fc D = On-board Controls Disabled |
| | 24 | 60 = 6,000K | 2W=Type II Wide | | | | |
| | 36 | | | | | | |
| GL | 42 | | | | | | |
| | 48 | | | | | | |
| | 54 | | | | | | |
| | 60 | | | | | | |
| | 66 | | | | | | |
| | 72 | | | | | | |



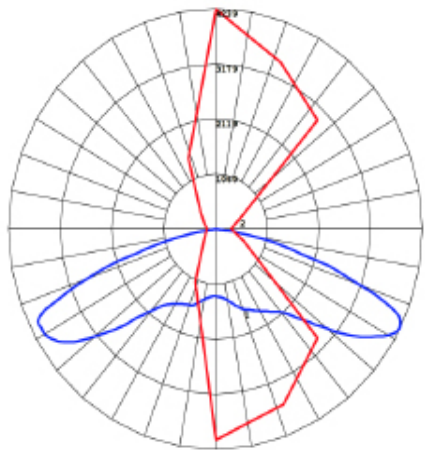
* Photocell life of 15 years based on an average of 24 operating hours per day at 40°C ambient ** Rated life of L85 is defined as the period of time after which lumen output of the LED source has depreciated to 85% of its initial output.

| MODEL | AS | | | GL | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| | AS18 | AS24 | AS36 | GL42 | GL48 | GL54 | GL60 | GL66 | GL72 |
| Number of LEDs | 18 | 24 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| Typical Lumens | 3,750 | 5,000 | 7,500 | 7,500 | 8,550 | 9,600 | 10,650 | 11,775 | 12,825 |
| Power Consumption (W) | 43 | 57 | 83 | 96 | 109 | 123 | 137 | 150 | 164 |
| HID Equivalent (W) | 100 | 150 | 250 | 250 | 250 | 300 | 400 | 400 | 500 |



Standard
GL42602S

Maximum Candela = 4421.81
 Located At Horizontal Angle = 292.5
 Vertical Angle = 56
 #1—Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 #2—Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)



Wide
GL42602W

Maximum Candela = 4238.64
 Located At Horizontal Angle = 90
 Vertical Angle = 63
 #1—Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 #2—Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)

| Zone | Lumens | Luminaire |
|-------------------------------|---------------|-------------|
| FL - Front-Low (0-30) | 816.1 | 11.0% |
| FM - Front-Medium (30-60) | 3323.5 | 44.9% |
| FH - Front-High (60-80) | 1342.1 | 18.1% |
| FVH - Front-Very High (80-90) | 133.3 | 1.8% |
| BL - Back-Low (0-30) | 369.4 | 5.0% |
| BM - Back-Medium (30-60) | 1036.4 | 14.0% |
| BH - Back-High (60-80) | 337.4 | 4.6% |
| BVH - Back-Very High (80-90) | 28.6 | 0.4% |
| UL - Uplight-Low (90-100) | 10.9 | 0.1% |
| UH - Uplight-High (100-180) | 3.1 | 0.0% |
| Total | 7400.8 | 100% |

BUG Rating: B2-U2-G1

| Zone | Lumens | Luminaire |
|-------------------------------|---------------|-------------|
| FL - Front-Low (0-30) | 745.5 | 10.2% |
| FM - Front-Medium (30-60) | 2621.7 | 36.0% |
| FH - Front-High (60-80) | 1548.4 | 21.3% |
| FVH - Front-Very High (80-90) | 100.0 | 1.4% |
| BL - Back-Low (0-30) | 381.9 | 5.3% |
| BM - Back-Medium (30-60) | 1131.0 | 15.5% |
| BH - Back-High (60-80) | 682.4 | 9.4% |
| BVH - Back-Very High (80-90) | 52.2 | 0.7% |
| UL - Uplight-Low (90-100) | 7.6 | 0.1% |
| UH - Uplight-High (100-180) | 3.1 | 0.0% |
| Total | 7273.8 | 100% |

BUG Rating: B2-U2-G2