# Areamaster™ Generation 2 and High Lumen LED Series Luminaires
Floodlight
Hazardous Locations

**NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations**
**ATEX/IECEx: Zone 2, 21, 22 | ⟨Ex⟩ II 2D 3G 3D | IK08 | IP66**
**Markings: CE | UKCA | UKEX**
**Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration**

## Applications
- Enclosed and gasketed fixtures suitable for use in a wide range of industrial, chemical processing and other areas where flammable gases and vapors are present, for example:
  — Oil and Gas Refineries
  — Petrochemical Plants
  — Foundries
  — Drilling Rigs
  — Pulp and Paper Mills
  — Food and Beverage Processing Facilities
  — Loading Docks
  — Power Plants
  — Water and Wastewater Treatment Facilities
  — Hydrogen and Biofuels plants
  — LNG (Liquid Natural Gas) plants
  — Other areas where corrosive, wet, dirty and tough environments are a problem
- IP66/IP67, Type 4X, marine and wet locations. IP66 for IECEx/ATEX.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
  — -40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range.
  — -40 °C to +55 °C (-40 °F to +131 °F) for high lumen AMLHL3 output.
  — -55 °C (-67 °F) Cold Start option available for BU voltages only. See Catalog Numbering Guide for more details.
- Globally rated luminaires with all applicable certification labels for NEC/CEC and ATEX/IECEx environments. See Certifications and Compliances for details.

## Features
- Six lumen outputs provide up to 38,000 lumens.

| Nominal Lumens ① | HID Equivalent | Model Number |
|---|---|---|
| 9,500 | 175W-250W | AMLGL6 |
| 15,000 | 250W-400W | AMLGL7 |
| 19,500 | 400W-750W | AMLGL8 |
| 24,000 | 1000W | AMLHL1 |
| 30,000 | 1000-1500W | AMLHL2 |
| 38,000 | 1500W | AMLHL3 |

① *Nominal lumen value for 5000K, NEMA 7x7, with clear glass. Detailed lumen information provided in tables.*

- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapter available.
- High Bay mounting achieved by using ¾" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.
- Yoke bracket is designed to accommodate traditional Areamaster brackets and slipfitters for easy retrofit. Optional stainless steel yoke bracket is available.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, 3000K (80 CRI) warm white, 1800K (70 CRI), or Amber (56 CRI).
- L70 Ratings:

| +25 °C (+77 °F) Ambient Temperature | Reported | > 60,000 hours |
|---|---|---|
| | Calculated | > 200,000 hours |
| +65 °C (+149 °F) Ambient Temperature | Reported | > 60,000 hours |
| | Calculated | > 135,000 hours |



AMLG



AMLH

- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- 0-10 Vdc Dimming standard for all configurations.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- Captive fasteners secure one piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.
- 5 year standard warranty. 10 year limited warranty for select part number configurations.

## Controls
- Dimming:
  — Luminaire has a two-wire, 0-10Vdc variable dimming input port for controlling the light output - for BU voltages only.
  — Standard operating temperature models: from 10% to 100% of the rated lumen output.
  — Cold temperature option models: from 0% to 100% of the rated lumen output.
- Group Lighting Controls:
  — Simplify installation of energy saving lighting controls.
  — Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
  — Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
  — Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

**EMERSON** **APPLETON**

# Areamaster™ Generation 2 and High Lumen LED Series Luminaires
## Floodlight
Hazardous Locations

**NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations**
**ATEX/IECEx: Zone 2, 21, 22 | ⟨Ex⟩ II 2D 3G 3D | IK08 | IP66**
**Markings: CE | UKCA | UKEX**
**Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration**

---

### Options
- Improved safety cable design with multiple retention points, *purchase separately.*
- Guard and visor available, *purchase separately*.
- Slip-fitters and mounting brackets available for easy pole or wall mounting.
- Stainless steel yoke bracket.
- 10 kV/5 kA Surge Protection, for NEC/CEC only.

### Standard Materials
- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Yoke: zinc plated steel
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided
- Guard and safety cable: stainless steel
- Visor: Aluminum

### Standard Finishes
- Housing, lens cover, visor and yoke mount: architectural bronze polyester

### NEC/CEC Certifications and Compliances
- UL Standards: UL 844; UL1598; UL1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0; CSA C22.2 No. 137
- cETLus: 104364566CHI-001, 104364566CHI-002, 104364582DAL-001
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency

### ATEX/IECEx Certifications and Compliances
- Certification Type: Areamaster Generation 2 and High Lumen LED
  — Gas: Zone 2
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 3G
    – Type of Protection: Ex ec IIC Gc
    – Temperature Class: AMLG – T5 to T3; AMLH – T4 to T3
  — Dust: Zones 21 and 22
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 2D
    – Type of Protection: Ex tb IIIC Db
    – Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)
  — Dust: Zone 22
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 3D
    – Type of Protection: Ex tc IIIC Dc
    – Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)
- Ambient Temperature: -40 °C up to +65 °C (-40 °F up to +149 °F).
  -40 °C to +55 °C (-40 °F to +131 °F) for high lumen AMLHL3 output.
- ATEX Certificates: ITS18ATEX104171, ITS-I 23 ATEX 29460
- IECEx Certificate: IECEx ITS 18.0049
- Index of Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

### UKEX Certifications
- ITS22UKEX0683
- ITS22UKEX0684

### CE and UKCA Marking
- ATEX: EN 60079-0 , EN 60079-7,  EN 60079-31
- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

### ABS Certifications
- AMLG: 23-2372521-PDA
- AMLH: 23-2372520-PDA

### DesignLights™ Consortium
- Check DLC QPL for current list of products.

### Related Products
- Industrial Areamaster Generation 2 and High Lumen LED Series Luminaires
- Round Tapered Steel Poles
- Hinged Steel Poles
- Square Tapered Steel Poles
- Square Steel Poles
- Floodlight Mounting Brackets

# Areamaster™ Generation 2 and High Lumen LED Series Luminaires
Floodlight
Hazardous Locations

**NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations**
**ATEX/IECEx: Zone 2, 21, 22 | ⟨Ex⟩ II 2D 3G 3D | IK08 | IP66**
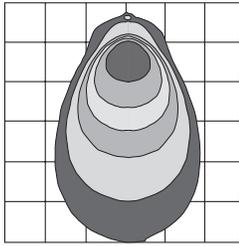**Markings: CE | UKCA | UKEX**
**Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration**
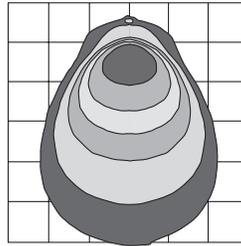
## Illustrated Features

### Light Where You Need It

Choose from **3 color temperatures** and a **variety of secondary optics** to put light where your application needs it most. Unsure of which optic is best for your job? Contact your sales representative to get a free 3D Dialux simulation.
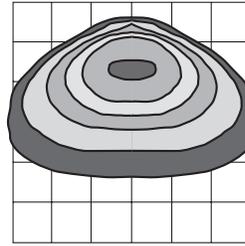
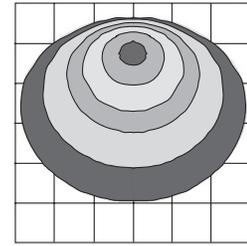### The Right Beam Pattern for Your Application



**NEMA 3x3** – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).

**NEMA 5x5** – Narrow, spot type forward intensity focus. Enables higher mounting heights (15 m / 50 ft +) while maintaining delivered light on surface (footcandles/lux).

**NEMA 7x6** – Mimics traditional HID light distribution. Light intensity is directed forward and side-to-side to maximize spacing between luminaires.

**NEMA 7x7** – Uniform light spread, perfect for most typical flood lighting applications.
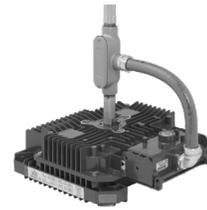
### Robust Design



**Front-Facing Wiring Compartment:** Gasketed front wiring compartment with screw terminal block, and captive screws offers unmatchable installation ease and convenience.

**Replaceable Drivers:** Easy to access, field replaceable drivers extend the useful life of your luminaire up to 200,000 hours or more.

**Visor and Guard:** Comply with light pollution regulations or control light spread with a visor. Protect the lens with a guard.

**High Bay Mount:** Use 3/4" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.
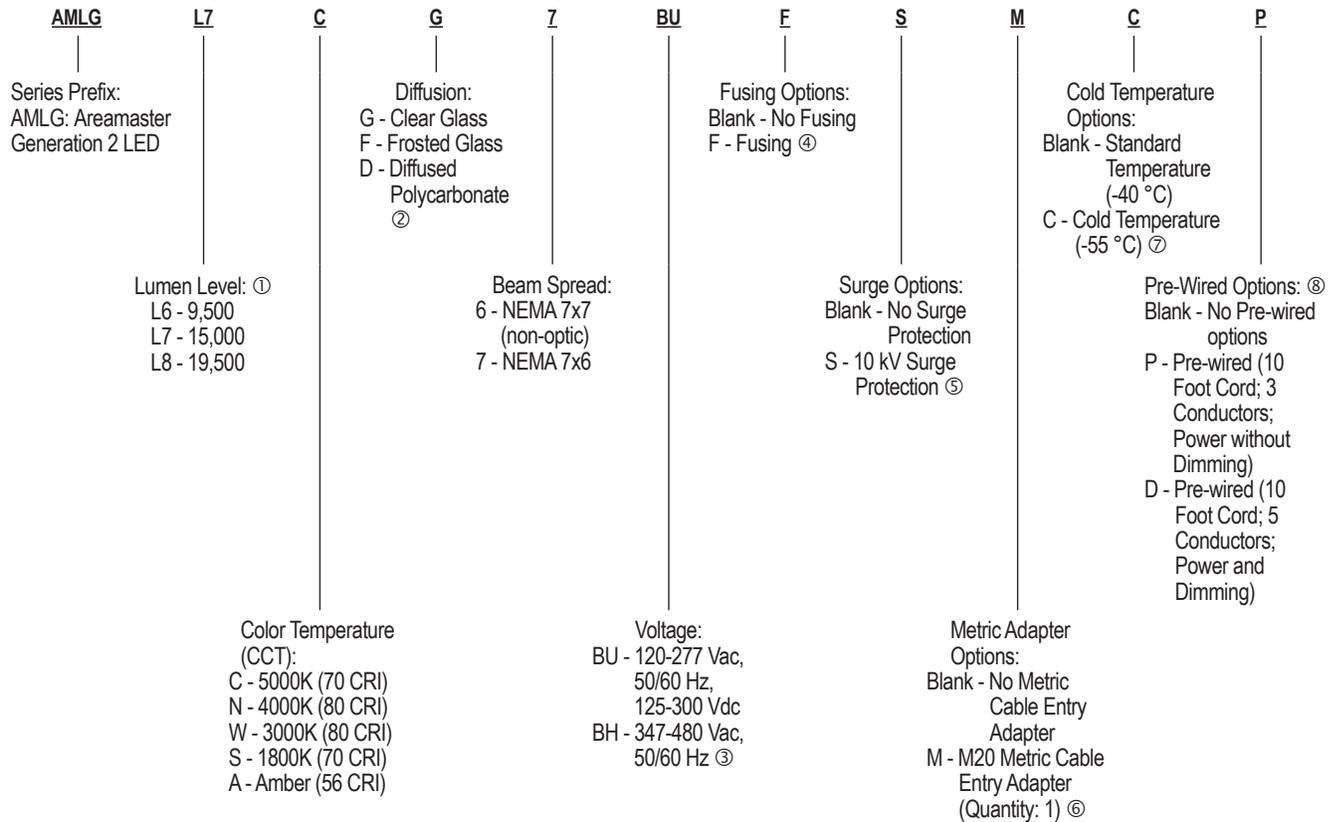
# Areamaster™ Generation 2 and High Lumen LED Series Luminaires
## Floodlight
### Hazardous Locations

**NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations**
**ATEX/IECEx: Zone 2, 21, 22 | ⟨Ex⟩ II 2D 3G 3D | IK08 | IP66**
**Markings: CE | UKCA | UKEX**
**Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration**

---

**Order Using Catalog Numbering Guide — Areamaster™ LED Series Luminaires — Low Lumen Model**

| AMLG | L7 | C | G | 7 | BU | F | S | M | C | P |

**Series Prefix:**
AMLG: Areamaster Generation 2 LED

**Diffusion:**
G - Clear Glass
F - Frosted Glass
D - Diffused Polycarbonate ②

**Fusing Options:**
Blank - No Fusing
F - Fusing ④

**Cold Temperature Options:**
Blank - Standard Temperature (-40 °C)
C - Cold Temperature (-55 °C) ⑦

**Lumen Level:** ①
L6 - 9,500
L7 - 15,000
L8 - 19,500

**Beam Spread:**
6 - NEMA 7x7 (non-optic)
7 - NEMA 7x6

**Surge Options:**
Blank - No Surge Protection
S - 10 kV Surge Protection ⑤

**Pre-Wired Options:** ⑧
Blank - No Pre-wired options
P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming)
D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)

**Color Temperature (CCT):**
C - 5000K (70 CRI)
N - 4000K (80 CRI)
W - 3000K (80 CRI)
S - 1800K (70 CRI)
A - Amber (56 CRI)

**Voltage:**
BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc
BH - 347-480 Vac, 50/60 Hz ③

**Metric Adapter Options:**
Blank - No Metric Cable Entry Adapter
M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑥

① All lumen values are typical (tolerance +/- 10%).
② Diffused Polycarbonate lens available for NEC/CEC only. Diffused Polycarbonate lens not available with Cold Start option.
③ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.
④ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.
⑤ 10kV Surge Protection available for NEC/CEC only. 10kV Surge Protection not available with Cold Start option.
⑥ M20 Metric Cable Entry Adapter not available with Pre-Wired options.
⑦ Cold Start option available for NEC/CEC only. Cold Start option not available with Diffused Polycarbonate lens, BH voltage, Fusing or 10kV Surge Protection.
⑧ Pre-Wiring available for NEC/CEC only. Pre-Wiring not available with Metric Adapter option. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option.