

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 | 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.



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.

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 3/4" 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)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 135,000 hours

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.

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 | Ⓜ 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; UL 1598; UL 1598A; 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: Ⓜ 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: Ⓜ 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: Ⓜ 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 | II 2D 3G 3D | IK08 | IP66

Markings: CE | UKCA | UKEX

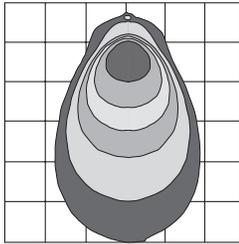
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Illustrated Features

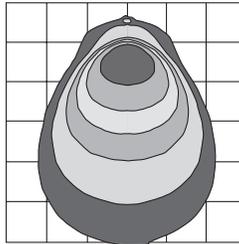
Light Where You Need It

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.

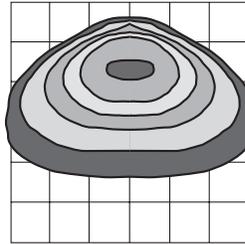
The Right Beam Pattern for Your Application



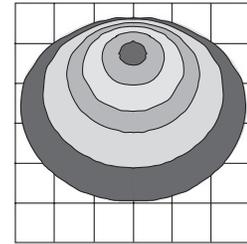
NEMA 3x3 – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).



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



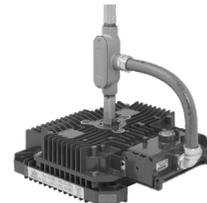
Front-Facing Wiring Compartment: Gasketed front wiring compartment with screw terminal block, and captive screws offers unmatched installation ease and convenience.



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.

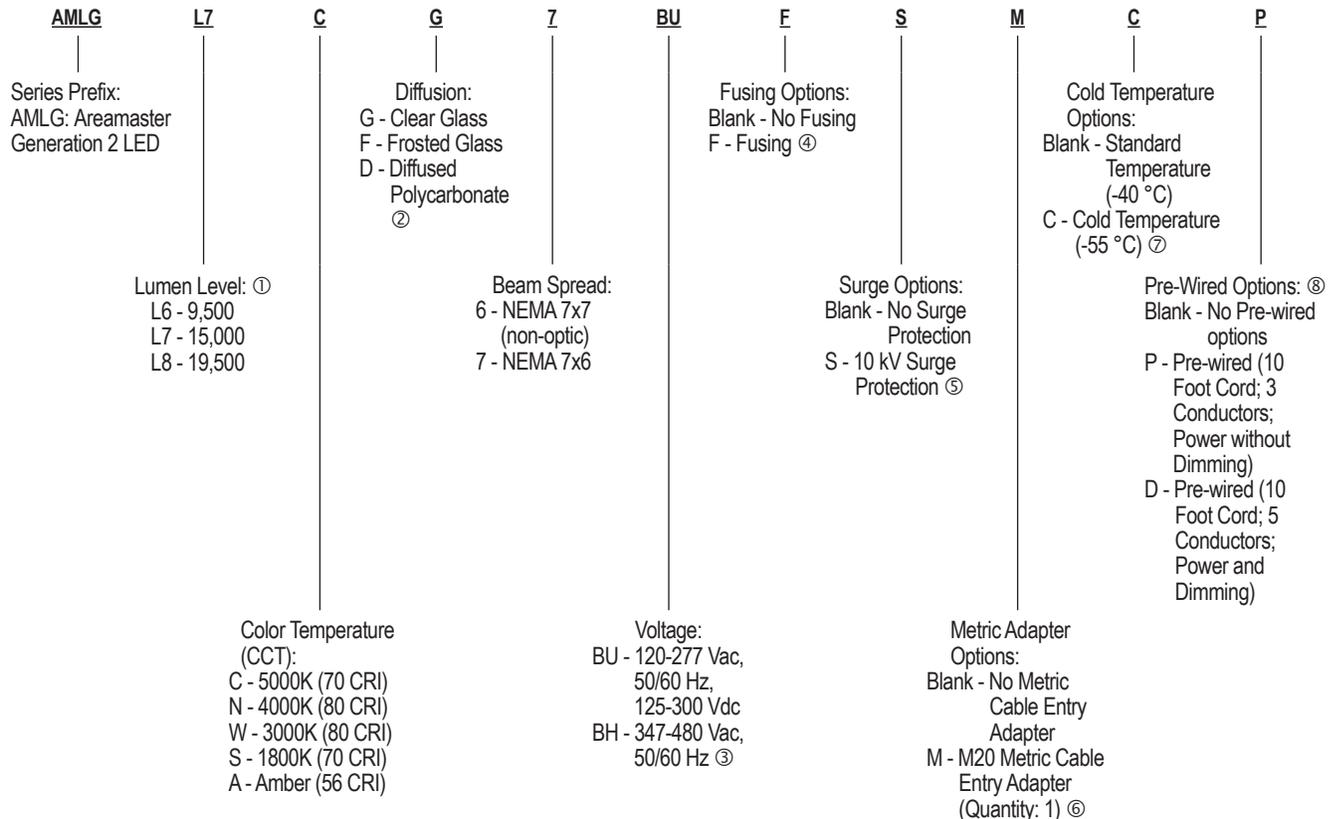
Areamaster™ Generation 2 and High Lumen LED Series Luminaires

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 | 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



LED Luminaires | Floodlight | Hazardous Location | NEC / CEC / ATEX / IECEX

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.

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 IIC 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 | II 2D 3G 3D | IK08 | IP66
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

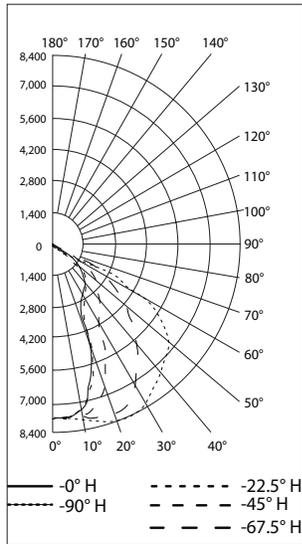
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x6, Clear Glass, 5000K CCT

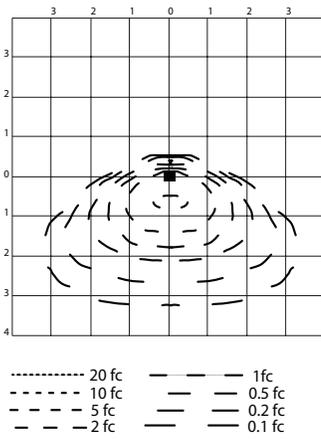
REPORT NUMBER: AMLGL7CG7BU

Luminaire Lumens 14,205

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	96.3%	13,678.5	135.3	112.5
Beam (50%)	62.6%	8,887.6	120.7	45.7
Total	100%	14,205.3		

Tilt Angle- 45 Degree LLF-0.9

Mounting Height m (ft)	Maximum Point (fc)	Forward Throw Distance			
		0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
6 (20)	4.91	15 (48)	12 (40)	11 (35)	7 (25)
9 (30)	2.22	18 (60)	14 (45)	12 (38)	—
12 (40)	1.25	20 (64)	16 (52)	—	—

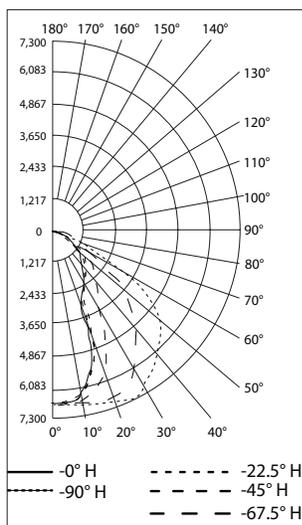
Mounting Height m (ft)	Side-to-Side Distance			
	0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
6 (20)	29 (96)	24 (80)	18 (60)	11 (36)
9 (30)	33 (108)	27 (90)	16 (54)	—
12 (40)	37 (120)	24 (80)	—	—

NEMA 7x6, Clear Glass, 3000K CCT

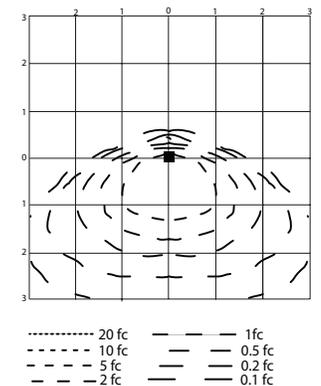
REPORT NUMBER: AMLGL7WG7BU

Luminaire Lumens 11,971

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	96.1%	11,503.9	135.2	112
Beam (50%)	62%	7,424.4	119.8	45.2
Total	100%	11,971.9		

Tilt Angle- 45 Degree LLF-0.9

Mounting Height m (ft)	Maximum Point (fc)	Forward Throw Distance			
		0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
6 (20)	4.30	14 (46)	12 (40)	10 (32)	6 (20)
9 (30)	1.91	17 (54)	14 (45)	33 (10)	—
12 (40)	1.07	20 (64)	15 (50)	—	—

Mounting Height m (ft)	Side-to-Side Distance			
	0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
6 (20)	27 (90)	22 (72)	16 (52)	9 (30)
9 (30)	33 (108)	24 (78)	15 (48)	—
12 (40)	34 (112)	22 (72)	—	—