

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

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 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



- 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.

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; 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: ⚡ 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

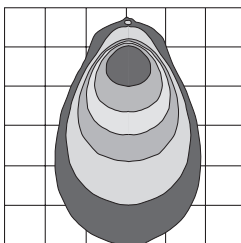
NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt 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

Illustrated Features

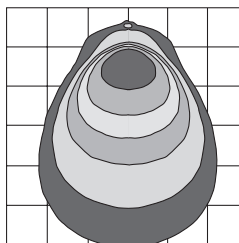
Light Where You Need It

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.

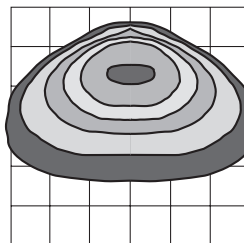
The Right Beam Pattern for Your Application



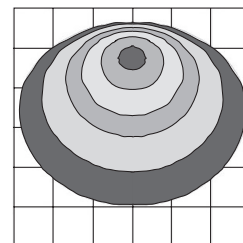
NEMA 3x3 – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).



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

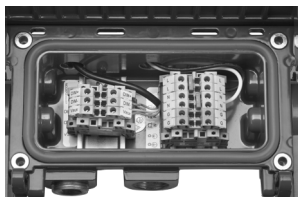


NEMA 7x6 – Mimics traditional HID light distribution. Light intensity is directed forward and side-to-side to maximize spacing between luminaires.

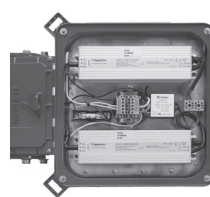


NEMA 7x7 – Uniform light spread, perfect for most typical flood lighting applications.

Robust Design



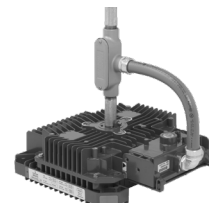
Front-Facing Wiring Compartment: Gasketed front wiring compartment with screw terminal block, and captive screws offers unmatched installation ease and convenience.



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 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

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

AMLH	L2	C	G	Z	BU	F	S	M	C	P
Series Prefix: AMLH: Areamaster Generation 2 HL LED	Lumen Level: ① L1 - 24,000 L2 - 30,000 L3 - 38,000	Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)	Diffusion: G - Clear Glass F - Frosted Glass	Beam Spread: 3 - NEMA 3x3 5 - NEMA 5x5 6 - NEMA 7x7 (non-optic) 7 - NEMA 7x6	Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ②	Fusing Options: Blank - No Fusing F - Fusing ③	Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ④	Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑤	Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑥	Pre-Wired Options: ⑦ 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)

① All lumen values are typical (tolerance +/- 10%).

② BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

③ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

④ 10kV Surge Protection available for NEC/CEC only. 10kV Surge Protection not available with Cold Start option.

⑤ M20 Metric Cable Entry Adapter not available with Pre-Wired options.

⑥ Cold Start option available for NEC/CEC only. Cold Start option not available with BH voltage, Fusing or 10kV Surge Protection.

⑦ 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

Lumen Output (Efficacy) — High Lumen Model ① 3000K, 4000K, 5000K

			CCT (Correlated Color Temperature)	CRI (Color Rendering Index)										
Model	HID Equivalency	Light Distribution Pattern			Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
AMLHL1	1000W	NEMA 3x3	3000K	80	19,350	109	4000K	80	20,250	114	5000K	70	22,750	128
		NEMA 5x5	3000K	80	20,850	117	4000K	80	21,900	123	5000K	70	25,000	140
		NEMA 7x6	3000K	80	19,000	107	4000K	80	20,500	115	5000K	70	23,000	129
		NEMA 7x7	3000K	80	20,100	113	4000K	80	21,300	120	5000K	70	24,250	136
AMLHL2	1000- 1500W	NEMA 3x3	3000K	80	23,450	106	4000K	80	24,600	111	5000K	70	27,500	124
		NEMA 5x5	3000K	80	25,500	115	4000K	80	26,700	120	5000K	70	30,000	135
		NEMA 7x6	3000K	80	23,200	105	4000K	80	25,000	113	5000K	70	27,950	126
		NEMA 7x7	3000K	80	24,650	111	4000K	80	26,100	118	5000K	70	29,750	134
AMLHL3	1500W	NEMA 3x3	3000K	80	29,500	99	4000K	80	30,950	104	5000K	70	34,750	117
		NEMA 5x5	3000K	80	32,000	107	4000K	80	33,600	113	5000K	70	37,500	126
		NEMA 7x6	3000K	80	29,300	98	4000K	80	31,500	106	5000K	70	35,350	119
		NEMA 7x7	3000K	80	31,000	104	4000K	80	32,800	110	5000K	70	37,400	126
Frosted Glass														
AMLHL1	1000W	NEMA 3x3	3000K	80	17,200	97	4000K	80	17,950	101	5000K	70	20,000	112
		NEMA 5x5	3000K	80	18,600	104	4000K	80	19,350	109	5000K	70	21,550	121
		NEMA 7x6	3000K	80	16,150	91	4000K	80	17,300	97	5000K	70	19,500	110
		NEMA 7x7	3000K	80	16,850	95	4000K	80	18,000	101	5000K	70	20,500	115
AMLHL2	1000- 1500W	NEMA 3x3	3000K	80	21,000	95	4000K	80	21,950	99	5000K	70	24,750	111
		NEMA 5x5	3000K	80	22,650	102	4000K	80	23,600	106	5000K	70	26,000	117
		NEMA 7x6	3000K	80	19,600	88	4000K	80	21,000	95	5000K	70	23,700	107
		NEMA 7x7	3000K	80	20,550	93	4000K	80	21,950	99	5000K	70	25,000	113
AMLHL3	1500W	NEMA 3x3	3000K	80	26,400	89	4000K	80	27,500	92	5000K	70	31,000	104
		NEMA 5x5	3000K	80	28,600	96	4000K	80	29,750	100	5000K	70	33,500	112
		NEMA 7x6	3000K	80	24,750	83	4000K	80	26,550	89	5000K	70	29,950	101
		NEMA 7x7	3000K	80	26,000	87	4000K	80	27,700	93	5000K	70	31,500	106

① All lumen values are typical (tolerance +/-10%).

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

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
AMLGL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
AMLGL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
AMLGL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
AMLHL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
AMLHL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
AMLHL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.
① All values are typical (tolerance +/-10%).

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

NEC/CEC Temperature Codes

Model	Max Driver Current (mA)	Max Ambient C° (F°)	Gas Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Dust Class II, Division 1 Groups E, F, G	Zone 20 Group IIIC	Combined Class I, Division 2 and Class II, Division 1	Gas Ex ec IIC, Class I, Zone 2, AEx ec IIC	Dust Ex tb IIIC, Zone 21, AEx tb IIIC
AMLGL6	410	40 (104)	T5	T5	T6	T6	T4A	T5	T85 °C
		55 (131)	T4A	T4	T6	T6	T4A	T4	T85 °C
		65 (149)	T4A	T4	T6	T6	T4	T4	T85 °C
AMLGL7	680	40 (104)	T4	T4	T6	T6	T4	T4	T85 °C
		55 (131)	T3C	T3	T6	T6	T3C	T3	T85 °C
		65 (149)	T3C ①	T3 ①	T5 ①	T5 ①	T3C ①	T3 ②	T100 °C ②
AMLGL8	930	40 (104)	T3C	T3	T6	T6	T3C	T3	T85 °C
		55 (131)	T3B ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
		65 (149)	T3A ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
AMLHL1	530	40 (104)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		55 (131)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		65 (149)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
AMLHL2	680	40 (104)	T4	T4	T6/T5 ③	T6/T5 ③	T4	T4	T85°C/T100°C ③
		55 (131)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
		65 (149)	T3C	T3	T5 ③	T5 ③	T4	T3	T100°C
AMLHL3	915	40 (104)	T3C	T3	T6/T5 ③	T6/T5 ③	T3C	T3	T85°C/T100°C ③
		55 (131)	T3C	T3	T5 ③	T5 ③	T3C	T3	T100°C
		65 (149)	—	—	—	—	—	—	—

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ④ ⑤

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

Notes: Supply Wire Temperature for all: +90 °C (+194 °F).

For input voltages of 125-169 Vdc, an ambient temperature exceeding +55 °C (+131 °F) is not permitted.

① Diffused polycarbonate lens option is not certified for these ambient temperature and lumen output combinations. Diffused polycarbonate not available for AMLH high lumen series

② Diffused polycarbonate lens is certified for NEC/CEC only. No face up orientation for installation.

③ T5 is maximum allowed temperature code, and T100°C is maximum allowed temperature, when model number includes 3x3 secondary optic.

④ T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

⑤ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

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

ATEX/IECEx Temperature Codes

Model	Max Driver Current (mA)	Gas — T Rating			Dust — Surface Temperature		
		+40°C (+104°F)	+55 °C (+131°F)	+65°C (+149°F)	+40°C (+104°F)	+55 °C (+131°F)	+65°C (+149°F)
AMLGL6	410	T5	T4	T4	T85°C	T85°C	T85°C
AMLGL7	680	T4	T3	T3	T85°C	T85°C	T100°C
AMLGL8	930	T3	T3	T3	T85°C	T100°C	T100°C
AMLHL1	530	T4	T4	T3	T85°C ①	T85°C ①	T85°C ①
AMLHL2	680	T4	T4	T3	T85°C ①	T100°C	T100°C
AMLHL3	915	T4	T3	—	T100°C	T100°C	—

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

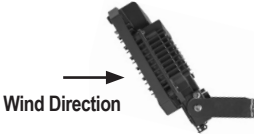
① Areamaster High Lumen with 3x3 secondary optic surface temperature is T100°C for these ranges.

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

Luminaire Category		Frontal Projected Area (FPA) ft²	Drag Coefficient (DC)	Effective Projected Area (EPA) = FPA*DC ft²
Low Lumen Model — AMLG				
90° to Ground-Worst Case Mounting		1.52	1.20	1.82
45° to Ground-Standard Mounting		1.07	1.2	1.28
High Lumen Model — AMLH				
90° to Ground-Worst Case Mounting		2.04	1.20	2.45
45° to Ground-Standard Mounting		1.44	1.20	1.73

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

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

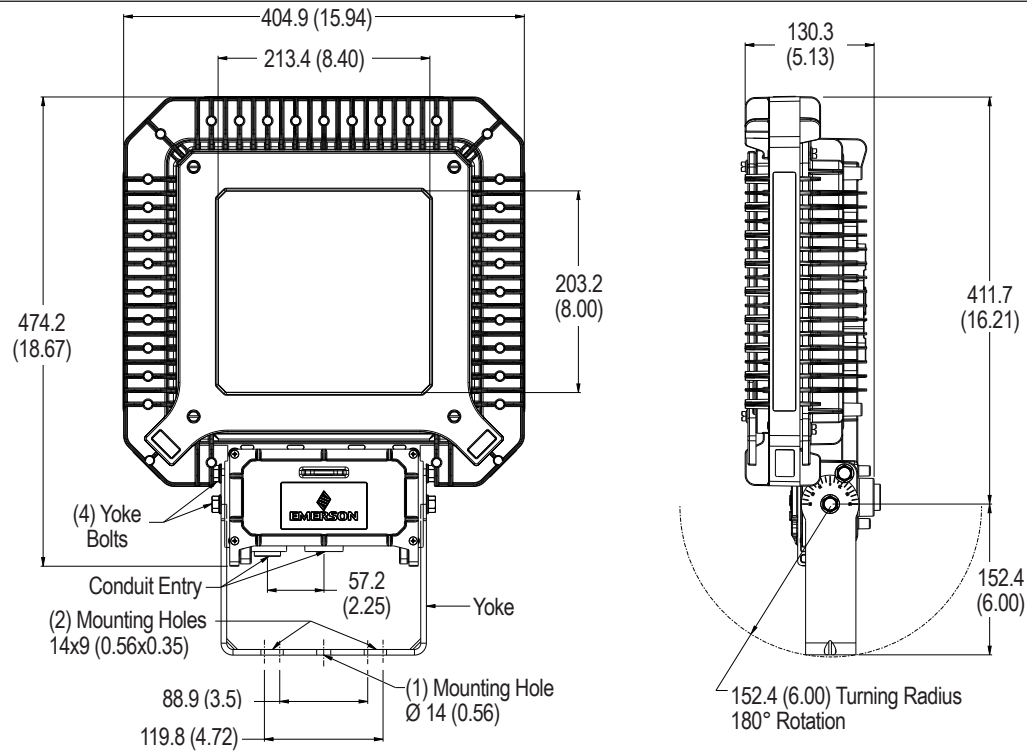
NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt 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

AMLH Dimensions in Millimeters (Inches) — Floodlight — High Lumen Model



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

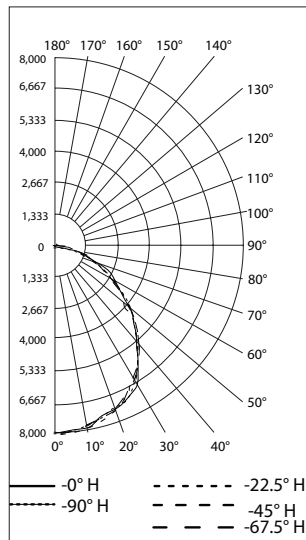
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x7 Diffused Glass, 5000K CCT

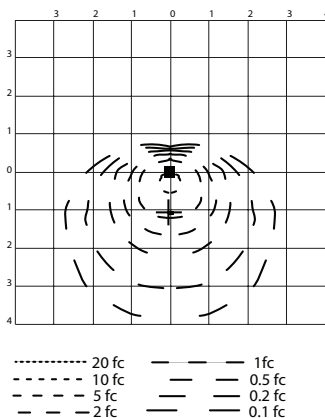
REPORT NUMBER: AMLHL1CF6BU

Luminaire Lumens 20,578

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	98%	20,176.5	155.7	154.5
Beam (50%)	70.2%	14,453.8	104.6	103.6
Total	100%	20,571.8		

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)
9 (30)	2.47	20 (66)	16 (54)	11 (36)	4 (12)
12 (40)	1.40	22 (72)	16 (52)	10 (32)	—
15 (50)	0.89	21 (70)	15 (50)	6 (20)	—
18 (60)	0.62	22 (72)	13 (42)	—	—

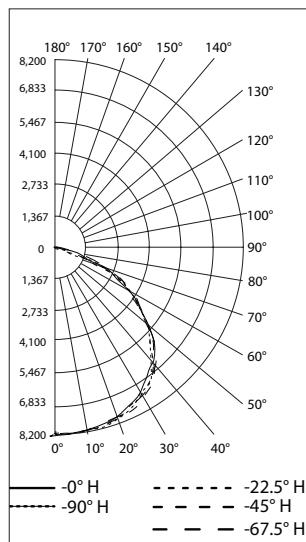
Mounting Height m (ft)	Side-to-Side Distance			
	0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
9 (30)	31 (102)	22 (72)	16 (54)	4 (12)
12 (40)	32 (104)	22 (72)	12 (40)	—
15 (50)	30 (100)	21 (70)	5 (15)	—
18 (60)	33 (108)	15 (48)	—	—

NEMA 7x7 Clear Glass, 5000K CCT

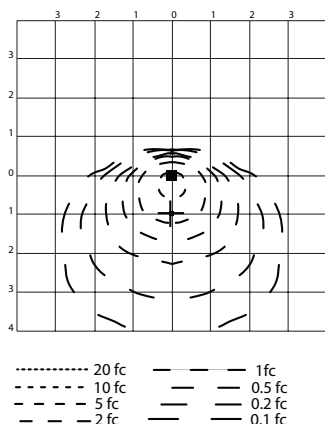
REPORT NUMBER: AMLHL1CG6BU

Luminaire Lumens 23,457

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	98.4%	23,090.9	151.1	151.2
Beam (50%)	80.3%	18,837.0	115.2	116.4
Total	100%	23,448.8		

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)
9 (30)	2.84	20 (66)	16 (54)	11 (36)	5 (15)
12 (40)	1.60	22 (72)	17 (56)	10 (32)	—
15 (50)	1.03	23 (75)	15 (50)	6 (20)	—
18 (60)	0.71	23 (75)	14 (45)	—	—

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)
9 (30)	33 (108)	24 (78)	18 (60)	7 (24)
12 (40)	34 (112)	24 (80)	15 (48)	—
15 (50)	37 (120)	24 (80)	12 (40)	—
18 (60)	35 (114)	18 (60)	—	—