

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
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.
- 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 adapters 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, or 3000K (80 CRI) warm white.
- Reported L70 is > 60,000 hours @ +65°C (+149 °F).
- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- 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.

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
- cCSAus 164460 Certificate Number: AMLG – 70073611, AMLH – 70073613
- cETLus: 104364566CHI
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency

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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

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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 op is tb IIC 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 to IIC 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, ITS18ATEX304055
- IECEx Certificate: IECEx ITS 18.0049
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

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: 18-HS1714271-PDA
- AMLH: 18-HS1714275-PDA

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

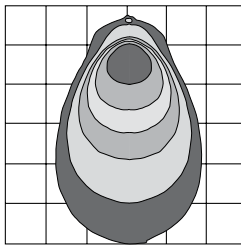
- Industrial Areamaster Generation 2 and High Lumen LED Series Luminaires
- Round Tapered Steel Poles
- Hinged Steel Poles
- Square Tapered Steel Poles
- Square Steel Poles
- Floodlight Mounting Brackets

Illustrated Features

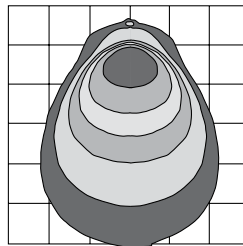
Light Where You Need It

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.

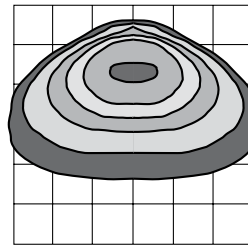
The Right Beam Pattern for Your Application



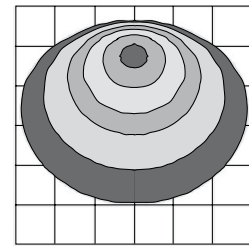
NEMA 3x3 – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).



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.

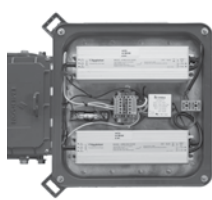


NEMA 7x7 – Uniform light spread, perfect for most typical flood lighting applications.

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.

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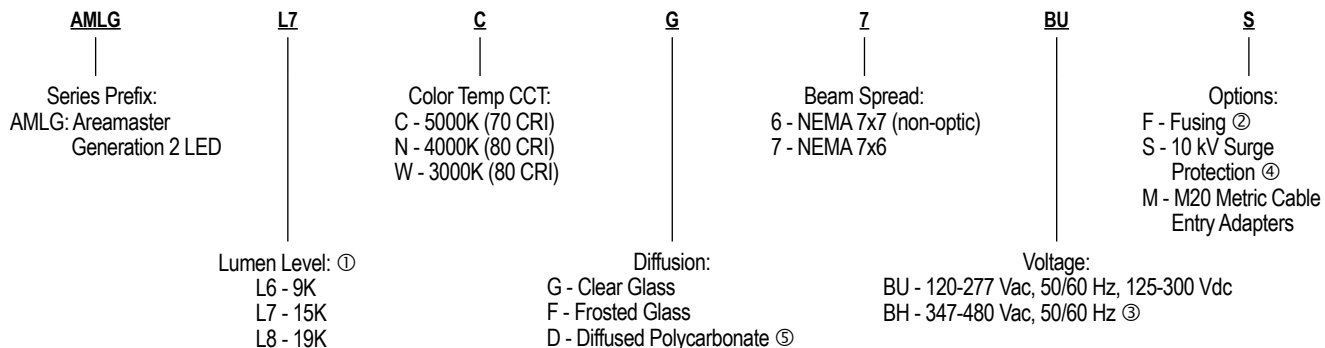
Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations

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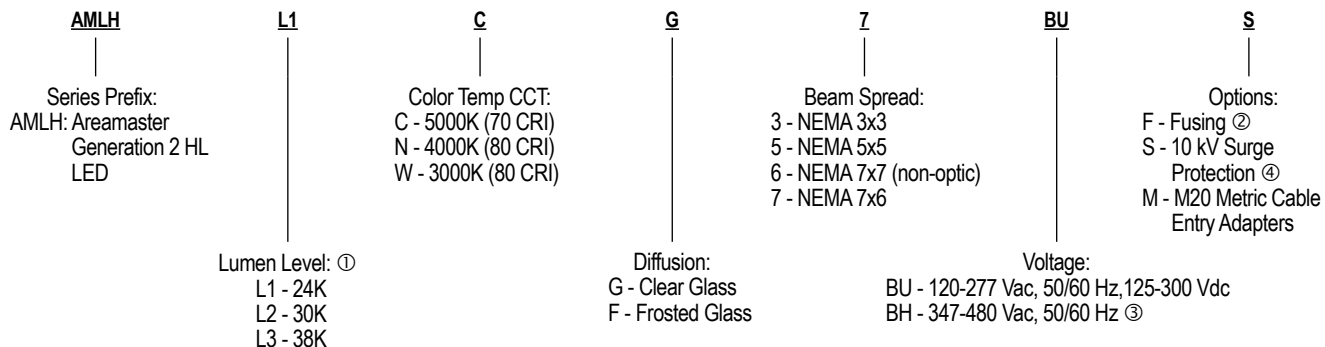
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Order Using Catalog Numbering Guide — Areamaster™ Generation 2 Series Luminaires — Low Lumen Model



Order Using Catalog Numbering Guide — Areamaster™ Generation 2 Series Luminaires — High Lumen Model



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

② Use of fuse voids Marine rating. Fusing available for NEC/CEC only.

③ BH voltage available for NEC/CEC only.

④ 10kV Surge Protection available for NEC/CEC only.

⑤ Diffused polycarbonate available for NEC/CEC only.

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Lumen Output (Efficacy) — Low Lumen Model ①

			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														
AMLGL6	175-250W	NEMA 7x6	3000K	80	7,350	105	4000K	80	8,500	121	5000K	70	9,500	136
		NEMA 7x7	3000K	80	7,650	109	4000K	80	9,000	129	5000K	70	9,900	141
AMLGL7	250-400W	NEMA 7x6	3000K	80	11,000	99	4000K	80	12,950	117	5000K	70	14,500	131
		NEMA 7x7	3000K	80	11,500	104	4000K	80	13,650	123	5000K	70	15,000	135
AMLGL8	400-750W	NEMA 7x6	3000K	80	14,500	95	4000K	80	16,550	109	5000K	70	18,500	122
		NEMA 7x7	3000K	80	15,000	99	4000K	80	17,550	115	5000K	70	19,500	128
Frosted Glass														
AMLGL6	175-250W	NEMA 7x6	3000K	80	6,200	89	4000K	80	7,200	103	5000K	70	7,900	113
		NEMA 7x7	3000K	80	6,400	91	4000K	80	7,500	107	5000K	70	8,300	119
AMLGL7	250-400W	NEMA 7x6	3000K	80	9,400	85	4000K	80	10,950	99	5000K	70	12,000	108
		NEMA 7x7	3000K	80	9,700	87	4000K	80	11,350	102	5000K	70	12,500	113
AMLGL8	400-750W	NEMA 7x6	3000K	80	12,000	79	4000K	80	14,000	92	5000K	70	15,550	102
		NEMA 7x7	3000K	80	12,500	82	4000K	80	14,500	95	5000K	70	16,550	109
Diffused Polycarbonate														
AMLGL6	175-250W	NEMA 7x6	3000K	80	5,950	85	4000K	80	6,950	99	5000K	70	7,700	110
		NEMA 7x7	3000K	80	6,250	89	4000K	80	7,300	104	5000K	70	8,050	115
AMLGL7	250-400W	NEMA 7x6	3000K	80	9,000	81	4000K	80	10,550	95	5000K	70	11,700	105
		NEMA 7x7	3000K	80	9,450	85	4000K	80	11,000	99	5000K	70	12,200	110
AMLGL8	400-750W	NEMA 7x6	3000K	80	11,500	76	4000K	80	13,500	89	5000K	70	15,000	99
		NEMA 7x7	3000K	80	12,100	80	4000K	80	14,150	93	5000K	70	15,650	103

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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.

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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.

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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.

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Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number
Low Lumen Model					
	AMLGL6C, AMLGL6N, AMLGL6W	BU BH	100 Watt	410mA	APMS100C105UD41 APMS100C105HD41
	AMLGL7W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65
	AMLGL7C, AMLGL7N	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68
	AMLGL8W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89
	AMLGL8C, AMLGL8N	BU BH	150 Watt	930mA	APMS150C105UD93 APMS150C105HD93
	High Lumen Model				
	AMLHL1C, AMLHL1N, AMLHL1W	BU BH	100 Watt	530mA	APMS100C105UD53 APMS100C105HD53
	AMLHL2W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65
	AMLHL2C, AMLHL2N	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68
	AMLHL3W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89
	AMLHL3C, AMLHL3N	BU BH	150 Watt	915mA	APMS150C105UD91 APMS150C105HD91

Luminaire Weights

Description	Weight in kg (lbs)
Low Lumen Model — AMLGL6, AMLGL7, AMLGL8 Luminaires	9.8 (21.6)
High Lumen Model — AMLHL1, AMLHL2, AMLHL3 Luminaires	16.1 (35.4)

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

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

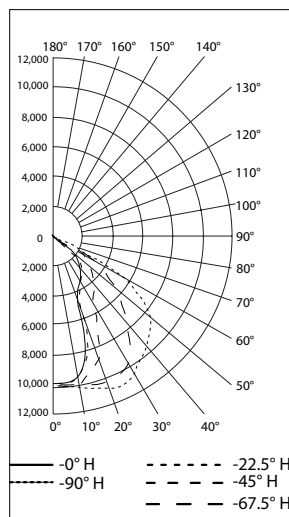
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x6, Clear Glass, 5000K CCT

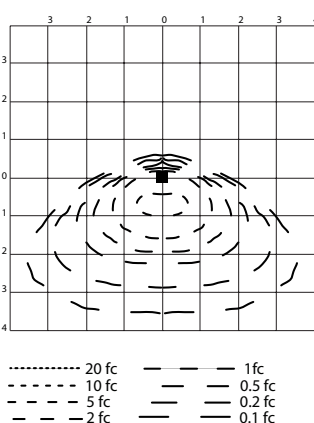
REPORT NUMBER: AMLGL8CG7BU

Luminaire Lumens 18,467

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	96.2%	17,761.1	135.1	112.2
Beam (50%)	62.5%	11,537.1	120.5	45.3
Total	100%	18,467.4		

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)	6.44	16 (52)	13 (44)	11 (36)	8 (26)
9 (30)	2.86	19 (63)	16 (54)	12 (39)	6 (21)
12 (40)	1.63	22 (72)	18 (60)	12 (40)	—

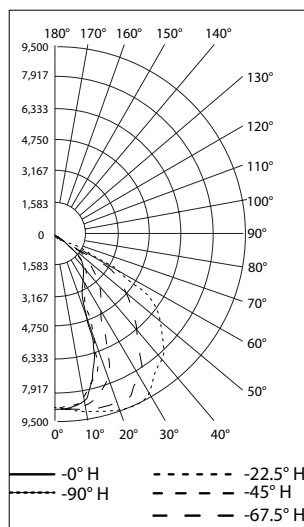
Mounting Height m (ft)	Side-to-Side Distance			
	0.5fc/5lx m (ft)	1fc/11lx m (ft)	2fc/22lx m (ft)	5fc/54lx m (ft)
6 (20)	32 (104)	26 (84)	21 (68)	12 (40)
9 (30)	37 (120)	31 (102)	20 (66)	4 (12)
12 (40)	39 (128)	29 (96)	15 (48)	—

NEMA 7x6, Clear Glass, 3000K CCT

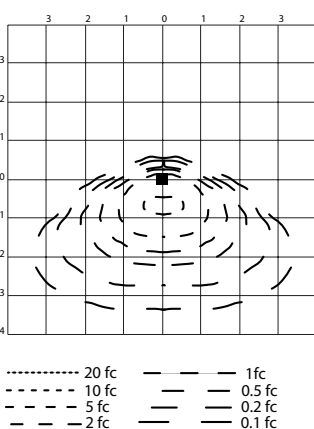
REPORT NUMBER: AMLGL8WG7BU

Luminaire Lumens 15,556

POLAR CANDELA DISTRIBUTION



ISOLUX PLOT AT 45°



FLOOD SUMMARY

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%)	96.1%	14,945.7	135	111.8
Beam (50%)	62%	9,641.5	119.5	45
Total	100%	15,555.8		

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)
6 (20)	5.61	15 (50)	13 (42)	11 (36)	8 (26)
9 (30)	2.50	18 (60)	16 (53)	12 (38)	—
12 (40)	1.40	21 (70)	17 (56)	11 (36)	—

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)	30 (100)	24 (80)	20 (64)	11 (36)
9 (30)	36 (117)	27 (90)	18 (60)	—
12 (40)	37 (120)	24 (80)	12 (40)	—