AREAMASTER™ GENERATION 2 LED ZONE 1 LUMINAIRE

APPLICATIONS

- For use in locations where:
  — Hazardous areas designated as: Zone 1, 2, 21 and 22
  — A high degree of corrosion resistance is required
  — Protection against gas, dust, water and moisture is necessary
- Typical applications include:
  — A wide range of harsh and hazardous 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
    — Other areas where corrosive, wet, dirty and tough environments are a problem
  — IP66/67; marine and wet locations
  — Extreme hot/cold temperature environments: -40°C to +65°C (-40°F to +149°F)

FEATURES

- Three lumen outputs provide up to 18,500 lumens.

Nominal Lumens ①	Wattage (W)	Efficacy (lpw)	HID Equivalent	Model Number
9,000	65	139	175W-250W	AMLZL6
14,000	105	133	250W-400W	AMLZL7
18,500	144	129	400W-750W	AMLZL8

① Nominal lumen value for 5000K CCT. Detailed lumen information provided in catalog pages.

- Separate field wiring compartment with screw terminal block for easy and secure connection (can accept UL/CSA 26-10 AWG, 4 to 6 mm2)
- Two ¾" NPT entries provided. Metric M20 adapters available.
- Yoke bracket is designed to accommodate traditional Areamaster brackets and slipfitters for easy retrofit.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white
- 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 6Kv surge protection
- Captive fasteners secure on piece lens
- Field replaceable LED driver and lens cover
- Photobiological safety rating: Risk Group Zero (RG0) with frosted glass; Risk Group One (RG1) with clear glass

STANDARD MATERIALS

- Housing and lens door: copperfree aluminum (4/10 of 1% maximum)
- Gaskets: silicone rubber
- Yoke: zinc plated HR steel
- Bolts: stainless steel
- Close up plugs: (1) aluminum provided
- Guard and safety cable: stainless steel
- Visor: aluminum

STANDARD FINISHES

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

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

NEC/CEC RATINGS

- Class I, Zone 1 AEx/Ex eb mb Group IIC Gb
- Class I, Zone 21 AEx/Ex tb Group IIC Db

ATEX/IECEX RATINGS

- Zone 1, 2, 21, 22
- Ex eb mb op is IIC
- ⟨Ex⟩ II 2 GD
- IP66/67
- IK08

ATEX/IECEX CERTIFICATIONS AND COMPLIANCES

- Certification Type: Areamaster Gen 2
  — Gas: Zone 1 and 2
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 2G
    – Type of Protection: Ex eb mb op is IIC Gb
    – Temperature Class: T6 to T4
  — Dust: Zones 21 and 22
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 2 D
    – Type of Protection: Ex op is tb IIIC Db
    – Surface Temperature: +85°C to +100°C (-185°F to +212°F)
- Ambient Temperature: -40 °C to +65 °C (-40 °F to +149 °F)
- ATEX Certificate: ITS18ATEX303521
- IECEx Certificate: IECEx ITS 18.0031
- Index of Protection according to EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: RG0 with frosted glass, RG1 with clear glass

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For product information:
www.masteringled.com
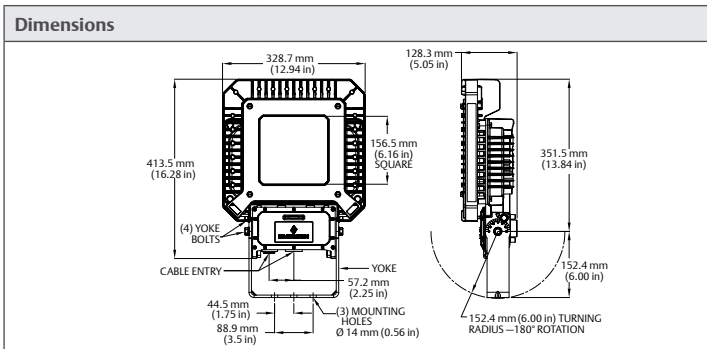1.800.621.1506

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CATALOG NUMBERING GUIDE

AMLZ	L7	C	G	6	BU	M

Series:
AMLZ: Areamaster Generation 2 LED Zone 1

Lumen Level ①:
L6 – 9K
L7 – 14K
L8 – 18.5K

Color Temp CCT:
C - 5000K (Cool White)
N – 4000K (Neutral)
W - 3000K (Warm White)

Diffusion:
G - Clear Glass
F - Frosted Glass ②

Beam Spread:
6 - 7x7
7 - 7x6

Voltage:
BU - 120-277 Vac 50/60 Hz, 170-300 Vdc

Options:
M - M20 Metric

	AMLGL6	AMLGL7	AMLGL8
Equivalent to HPS/PSMH	175-250 Watt	250-400 Watt	400-750 Watt
Voltage Range	120-277 Vac, 170-300 Vdc, 50/60 Hz		
Input Power	65 Watts	105 Watts	144 Watts
Luminous Flux (5000K Clear) ①	9,000	14,000	18,500
Efficacy	138 lm/w	133 lm/w	129 lm/w
Correlated Color Temperature	5000K | 4000K | 3000K		
Color Rendering Index	70 | 80		
Ambient Temperature	-40°C to +65°C (-40°F to +149°F)		
T Rating ATEX/IECEx Zone 1	T5 at +65°C (+149°F)	T4 at +65°C (+149°F)	T4 at +65 °C (+149°F)
Luminaire Weight	10.5kg (23lb)		
Standard Materials	Housing: copperfree (4/10 of 1% max.) aluminum		
	Finish: architectural bronze polyester powder coat		
	Lens: thermal shock and impact-resistant glass (clear or frosted)		
LED Lifetime (L70B10)	>100,000 hours at +40°C (+104°F) ambient temperature		
	>60,0000 hours at +65°C (+149°F) ambient temperature		
Warranty	5 years standard		

Image	Luminaire Category	Effective Projected Area (EPA) = FPA*DC m² (ft²)
Wind Direction	90° to Ground-Worst Case Mounting	0.6 (1.82)
Wind Direction	45° to Ground-Standard Mounting	0.4 (1.28)

Photometric Data

7x7, Frosted Glass

7x6, Clear Glass

Dimensions

① All lumen values are typical (tolerance +/-10%).
② Frosted Glass is only available with NEMA 7x7 light pattern.

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