

# Areamaster™ LED Flood/High Bay Luminaires

For Hazardous Locations. 250 W, 400 W, 750 W HID Light Level Equivalent

**NEC/CEC:**  
Class I, Division 2, Groups A,  
B, C, D  
Class I, Zone 2 Group IIC  
Class II, Division 1, Groups  
E, F, G

**NEC/CEC:**  
Class II Division 2, Groups F, G  
Class III  
Simultaneous Exposure  
Type 3R, 4, 4X  
IP66/67

**NEC:**  
Marine Outside Type  
(Salt Water)  
Wet Locations

**ATEX/IECEX:**  
Zones 2 and 22  
II 3 GD  
EPL Gc and Dc  
Ex nA IIC; Ex tc IIIC  
IP66, IK08

**ATEX/IECEX:**  
Zone 21  
II 2 D  
EPL Db  
Ex tb IIIC  
IK08

## Applications

- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Food processing plants
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where water, dirt and rough usage are a problem

## Features

- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- One-piece housing.
- One-piece lens in hinged cover. Secured by four M6 captive stainless steel slotted hex-head bolts.
- Thermal shock- and impact-resistant glass lens standard.
- Diffused polycarbonate lens available as an option.
- Heavy duty, high temperature silicone rubber gasket, mechanically secured.
- Universal design for flood and high bay mounting.
- Floodlight Mounting:
  - Yoke mount, zinc plated steel yoke with architectural bronze polyester finish.
- High Bay Mounting:
  - (1) Conduit entry on back of luminaire with locking set screw.
  - Rotate yoke up or remove.
- Chain Mounting:
  - Mounts via eyebolts threaded into the corners of the fixture.
  - Available with chain mounting, or as an accessory.
  - Rotate yoke up or remove.
- Cool operating temperatures translate into long luminaire life.
- NEC/CEC versions available with a total of three (3) 3/4" NPT entries with integral bushings.
- ATEX/IECEX version provided with one (1) 3/4" NPT/M20 adapter and two (2) close up plugs.
- Two (2) 3/4" NPT aluminum close up plugs provided.
- Electrical:
  - NEC/CEC/ATEX/IECEX: 120-277 Vac, 50/60 Hz
  - NEC/CEC: 347-480 Vac, 50/60 Hz.; 250 Vdc available on AMLED77YBC.
- Terminal block (screw type for secure connection) can accept UL/CSA 24-10AWG and IEC 0.2 - 4 mm<sup>2</sup>.

## Standard Materials

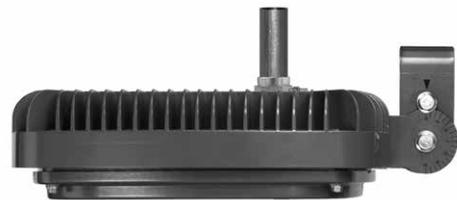
- Housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Reflector: metallized high reflectance finish
- Yoke mount: zinc plated steel
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided

## Standard Finishes

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



Floodlight



High Bay

Appleton

LED/FLOODLIGHTS: NEC/CEC, ATEX/IECEX ENCLOSED AND GASKETED

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 Ⓢ II 2 D  
 EPL Db  
 Ex tb IIIC  
 IK08

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 8750, UL 844
- CSA Standard: C22.2 No. 250.0, C22.2 No. 137
- cCASus Certified: 065182
- Ambient Temperature: AMLED67 and AMLED77 -40 °C to +65 °C (-40 °F to +149 °F); AMLED87 -40 °C to +55 °C (-40 °F to +131 °F)
- The Class II, Division 1 & 2, Class III & Simultaneous Exposure Restrictions: 30° Rotation Maximum
  - The luminaire may be rotated a maximum of 30 degrees from the vertical plane such that the lens will be facing down (see 30° rotation picture).
  - The luminaire must not be rotated such that the lens will be facing up at any angle. Also, for fixtures with glass lens only and not for chain-mounted or pendant-mounted fixtures.



30° Rotation

### ATEX/IECEX Certifications and Compliances

- Certification Type AMLED
  - Gas: Zone 2
    - Conforming to ATEX 94/9/EC: Ⓢ II 3 G
    - Protection Level: EPL Gc
    - Type of Protection: Ex nA IIC
    - Temperature class: See Table on following page
  - Dust: Zones 21 and 22
    - Conforming to ATEX 94/9/EC: Ⓢ II 2 D and II 3D
    - Protection Level: EPL Db and Dc
    - Type of Protection: Ex tb IIIC and Ex tc IIIC
    - Temperature class: See Table on following page
- EC Declaration of Conformity: 50307
- ATEX Certificate: LCIE 14 ATEX 1016X (Zone 2/22), LCIE 14 ATEX 3049X (Zone 21)
- IECEx Certificate: IECEx LCIE 14.0030X
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912

### DesignLights™ Consortium (for the following models)

- AMLED67YBU1
- AMLED67YBU1D
- AMLED77YBU1
- AMLED77YBU1D
- AMLED87YBU1
- AMLED87YBU1D

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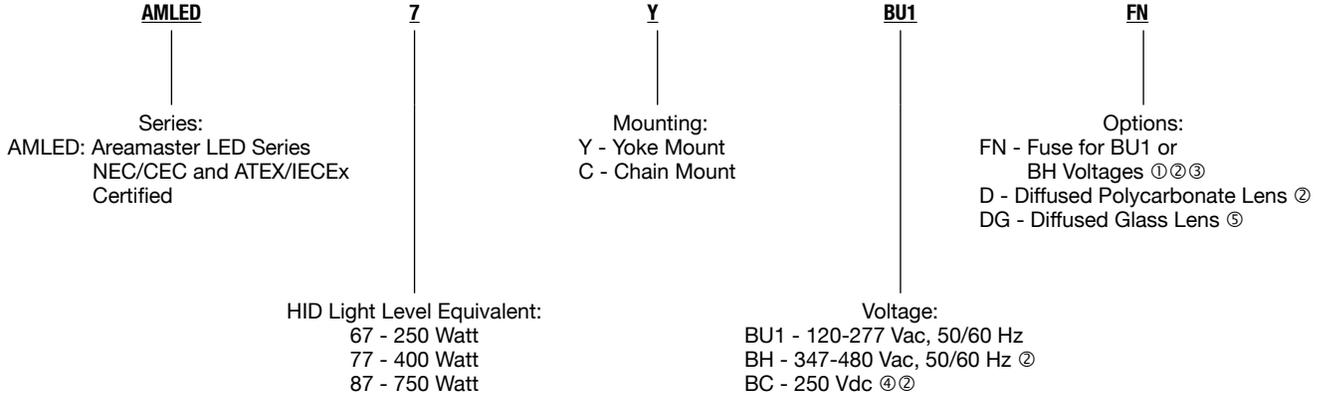
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Zone 21  
Ⓜ II 2 D  
EPL Db  
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Order using catalog numbering guide below or select catalog number from tables on following pages.

## Catalog Numbering Guide – NEC/CEC and ATEX/IECEX Certified Areamaster LED



① Not available for use on the 750 Watt equivalent.

② Not available for use on the ATEX/IECEX certified fixtures.

③ Canadian Electrical Code does NOT allow fusing in hazardous locations. Fuse not CEC rated.

④ Not available for use on the 250 and 750 Watt equivalent.

⑤ For ATEX/IECEX versions.

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## Technical Data – NEC/CEC

Lamp		Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	Class I, Division 2 ①	Gas Groups	ExnA IIC AExnA IIC	Dust Class II, Division 1 Groups E,F,G	Catalog Number
Line Voltage	Type							
120-277 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	T6	AMLED67YBU1
		55 (131)	90 (194)	T3C	A,B,C,D	T3	T6	
		65 (149)	90 (194)	T3C	A,B,C,D	T3	T5	
347-480 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	—	T6	AMLED67YBH
		55 (131)	75 (167)	T3C	A,B,C,D	—	—	
120-277 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	T6	AMLED77YBU1
		55 (131)	90 (194)	T3C	A,B,C,D	T3	T5	
		65 (149)	105 (221)	T3C	A,B,C,D	T3	T4A	
347-480 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	—	T6	AMLED77YBH
250 Vdc	LED	40 (104)	75 (167)	T4A	A,B,C,D	T4	T5	AMLED77YBC
120-277 Vac	LED	40 (104)	75 (167)	T3C	A,B,C,D	T3	T4A	AMLED87YBU1
		55 (131)	90 (194)	T3A	A,B,C,D	T3	T5	
347-480 Vac	LED	40 (104)	75 (167)	T3	A,B,C,D	—	T5	AMLED87YBH

## Technical Data – ATEX/IECEX – Ambient Temperature Ta °C (°F)

GAS (Zone 2) ①						DUST (Zones 21–22) ②						Catalog Number
40 (104)	55 (131)	40 (104)	55 (131)	40 (104)	55 (131)	40 (104)	55 (131)	40 (104)	55 (131)	40 (104)	55 (131)	
Downward		Wall Mounting		Upward		Downward		Wall Mounting		Upward		
T4 114 (237)	T4 129 (264)	T4 109 (228)	T4 124 (255)	T4 117 (243)	T3 132 (270)	68 (154)	83 (181)	67 (153)	82 (180)	70 (158)	85 (185)	AMLED67YBU1
T3 144 (291)	T3 159 (318)	T3 146 (295)	T3 161 (322)	T3 150 (302)	T3 165 (329)	75 (167)	90 (194)	74 (165)	89 (192)	77 (171)	92 (198)	AMLED77YBU1
T3 178 (352)	T3 193 (379)	T3 176 (349)	T3 191 (376)	T3 183 (361)	T2 198 (388)	83 (181)	98 (208)	82 (180)	97 (207)	87 (198)	102 (216)	AMLED87YBU1

“T” Numbers Represent the Maximum Internal Temperature ① or Maximum Surface Temperature ②

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	351-450 (664-842)	326-350 (619-662)	301-325 (574-617)	281-300 (538-572)	261-280 (502-536)	231-260 (448-500)	216-230 (421-446)	201-215 (394-419)	181-200 (358-392)	166-180 (331-356)	161-165 (322-329)	136-160 (277-320)	121-135 (250-275)	101-120 (214-248)	86-100 (187-212)	85 (185)
“T” #	ATEX/IECEX															
	T1	T2				T3				T4		T5	T6			
Temp. Range °C (°F)	301-450 (547-842)	201-300 (394-572)				136-200 (277-392)				101-135 (214-275)		86-100 (187-212)	85 (185)			

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC and ATEX/IECEX.

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

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## Electrical Specifications – Flood Mount

Voltage Range	Frequency ( Hz)	Watts Input Power (Nom.)	Input Amps (Max.)	Total Harmonic Distortion	Power Factor	CRI	Color Temp CCT	Catalog Number
120-277 Vac	50/60	86/85	0.72 - 0.35	0.5	> 0.98	70	5650K	AMLED67YBU1
347-480 Vac	50/60	88/90	0.27 - 0.22	0.5	> 0.95	70	5650K	AMLED67YBH
120-277 Vac	50/60	125/121	1.10 - 0.47	0.5	> 0.98	70	5650K	AMLED77YBU1
347-480 Vac	50/60	124/125	0.37 - 0.29	0.5	> 0.95	70	5650K	AMLED77YBH
250 Vdc	—	118	0.47	0.5	> 0.98	70	5650K	AMLED77YBC
120-277 Vac	50/60	174/169	1.60 - 0.70	0.5	> 0.98	70	5700K	AMLED87YBU1
347-480 Vac	50/60	176/175	0.52 - 0.39	0.5	> 0.95	70	5700K	AMLED87YBH

Line Voltage	Catalog Number	
	NEC/CEC	ATEX/IECEX
120-277 Vac, 50/60 Hz	AMLED67YBU1	AMLED67YBU1
120-277 Vac, 50/60 Hz	AMLED77YBU1	AMLED77YBU1
120-277 Vac, 50/60 Hz	AMLED87YBU1	AMLED87YBU1
347-480 Vac, 50/60 Hz	AMLED67YBH	—
347-480 Vac, 50/60 Hz	AMLED77YBH	—
250 Vdc	AMLED77YBC	—
347-480 Vac, 50/60 Hz	AMLED87YBH	—



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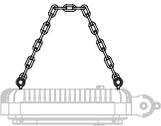
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### Accessories and Replacement Parts

Description		Catalog Number NEC/CEC, ATEX/IECEX	
<b>Crossarm Mounting Bracket</b>			
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	<b>G-AM-8-CA</b>	
<b>Pipe or Wall Mount Bracket</b>			
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-WB</b>	
<b>Poletop Slip-Fitter</b>			
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>G-SF20</b>	
	Slip-fits 1" or 1-1/2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	<b>AMLEDSF1</b>	
<b>Poletop Slip-Fitter</b>			
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	<b>G-AM-8-SF</b>	
<b>Chain</b>			
	Chain mount assembly comes with two (2) 914.4 mm (36 inch) long chains, four (4) eye bolts, four (4) hex bolts, four (4) lock washers, four (4) hex nuts, eight (8) plain washers and an instruction sheet for complete assembly and mounting. Chains are galvanized steel, eye bolts are zinc plated steel, all other hardware is stainless steel.	<b>AMLEDCM</b>	
Description		Catalog Number NEC/CEC	Catalog Number ATEX/IECEX
<b>LED Array</b>			
With White LED's for the AMLED67		<b>AMLED67AW</b>	<b>AMLED67AW</b>
With White LED's for the AMLED77		<b>AMLED77AW</b>	<b>AMLED77AW</b>
With White LED's for the AMLED87		<b>AMLED87AW</b>	<b>AMLED87AW</b>
<b>Drivers</b>			
120 - 277 Vac — BU Version and BC Version		<b>AMLED77DBU</b>	—
120 - 277 Vac — BU1 Version — AMLED87: Left Side — AMLED67, AMLED77		<b>AMLEDDBU1L</b>	<b>AMLEDDBU1L</b>
120 - 277 Vac — BU1 Version — AMLED87: Right Side		<b>AMLEDDBU1R</b>	<b>AMLEDDBU1R</b>
347 - 480 Vac — BH Version — AMLED67, AMLED77		<b>AMLED77DBH</b>	—
347 - 480 Vac — BH Version — AMLED87: Left Side		<b>AMLED87DBHL</b>	—
347 - 480 Vac — BH Version — AMLED87: Right Side		<b>AMLED87DBHR</b>	—
<b>Door Assembly</b>			
With a Glass Lens, Pins		<b>AMLEMDDOOR</b>	<b>AMLEMDDOOR</b>
With a Polycarbonate Lens, Pins		<b>AMLEMDDOORP</b>	—

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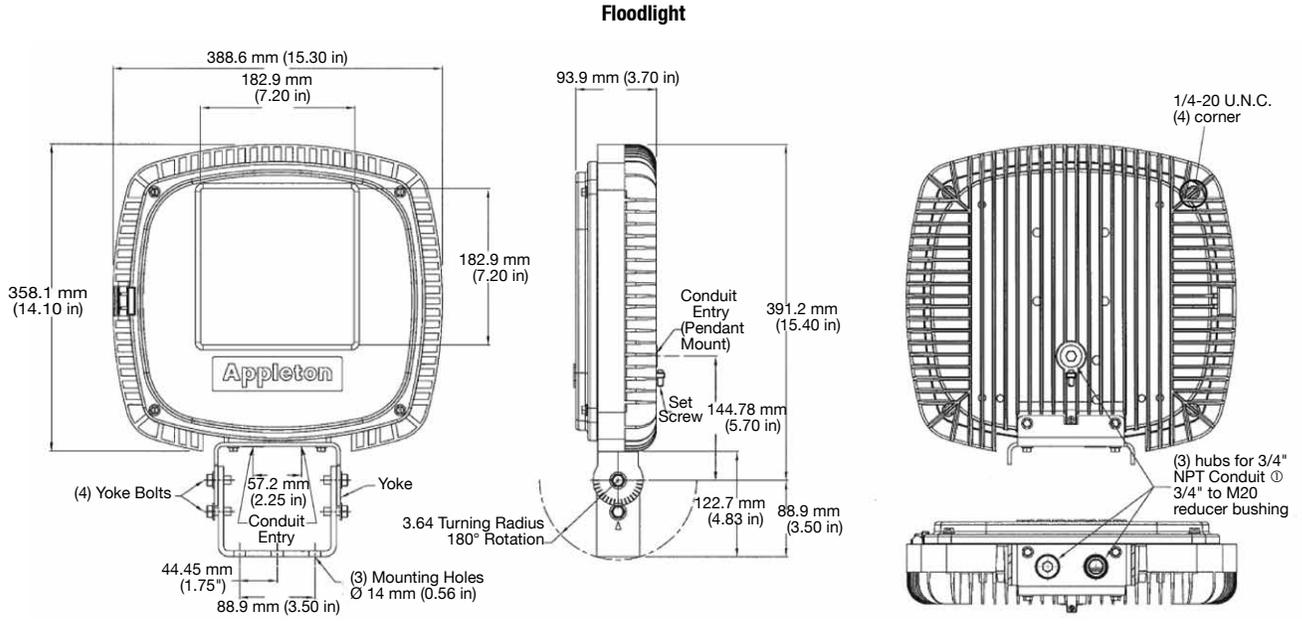
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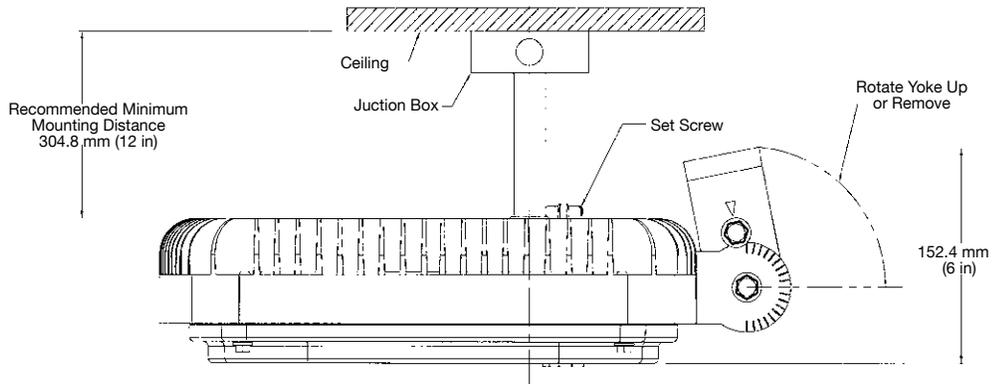
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## Dimensions in Millimeters (Inches)



## High Bay Pendant Mount



Ⓜ 3/4" NPT/M20 adapter supplied for ATEX version.