

# Areamaster™ 250/400 Integrally Ballasted Floodlights

## 100 W to 400 W HID

For hazardous and marine locations.

### NEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Ex nR, Groups IIA, IIB, IIC  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Wet locations  
Marine outside type (salt water)  
IP66

## Applications

- Powerful, efficient weatherproof lighting for medium and large areas such as:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem

## Features

- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Integral ballast.
- One-piece housing.
- One-piece lens cover. Secured by four 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Thermal shock and impact resistant glass lens.
- Heavy duty, high temperature silicone rubber gasket, firmly seated.
- Heavy duty mogul-base porcelain socket with heavy gauge brass, nickel-plated, double lamp-grip screw shell and springloaded center contact.
- Compound parabolic, double segment, finished aluminum reflector for optimum efficiency.
- Mounting choice:
  - (1) Yoke mount, zinc plated steel yoke with architectural bronze polyester finish
  - (2) Pole mount, built-in slip-fitter, for internal wiring, adjustable laterally and vertically, slip fits 50.8 mm (2.00") thru 63.5 mm (2.50") pipe, architectural bronze polyester finish available for use in CEC governed locations
- Cool operating temperatures translate into long luminaire life.

## Standard Materials

- Ballast housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Socket: heavy duty porcelain with heavy gauge brass shell
- Reflector: finished aluminum
- Yoke mount: zinc plated steel
- Bolts: stainless steel

## Standard Finishes

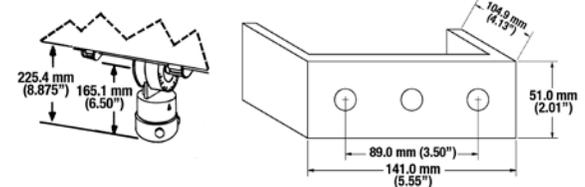
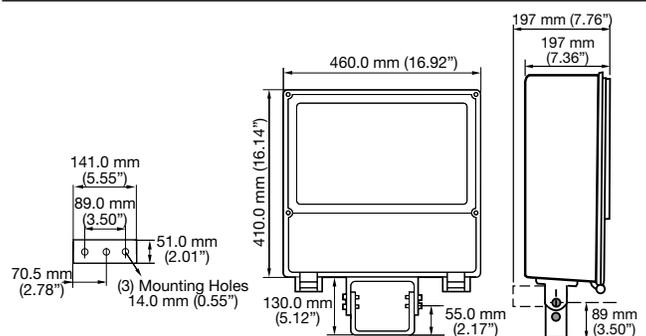
- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

## Options

- For Division 2 rating, add suffix **I2**.
- For Ex nR/AEx nR version with terminal blocks, add suffix **-Z2**.
- For a fixture with terminal blocks, order the Ex nR/AEx nR version, add suffix **-Z2**.



## Dimensions in Millimeters (Inches)



## NEC/CEC Certifications and Compliances

- Areamaster 250/400
  - Wet locations
  - Marine outside type (salt water)
  - UL Standard: UL 1598, 1598A, 844
  - UL Listed: E10794
  - CSA Standards: C22.2 No. 25, C22.2 No. 94, C22.2 No. 97, C22.2 No. 137
  - CSA Approval: LR25248
- Zone 2 Areamaster 250/400
  - UL Standard: UL 1598, 1598A, 60079-0, 60079-15
  - UL Listed: E10794
  - CSA Standards: E79-0, E79-15
  - CSA Approval: LR25428
  - Index of Protection (solid and liquid): IP66

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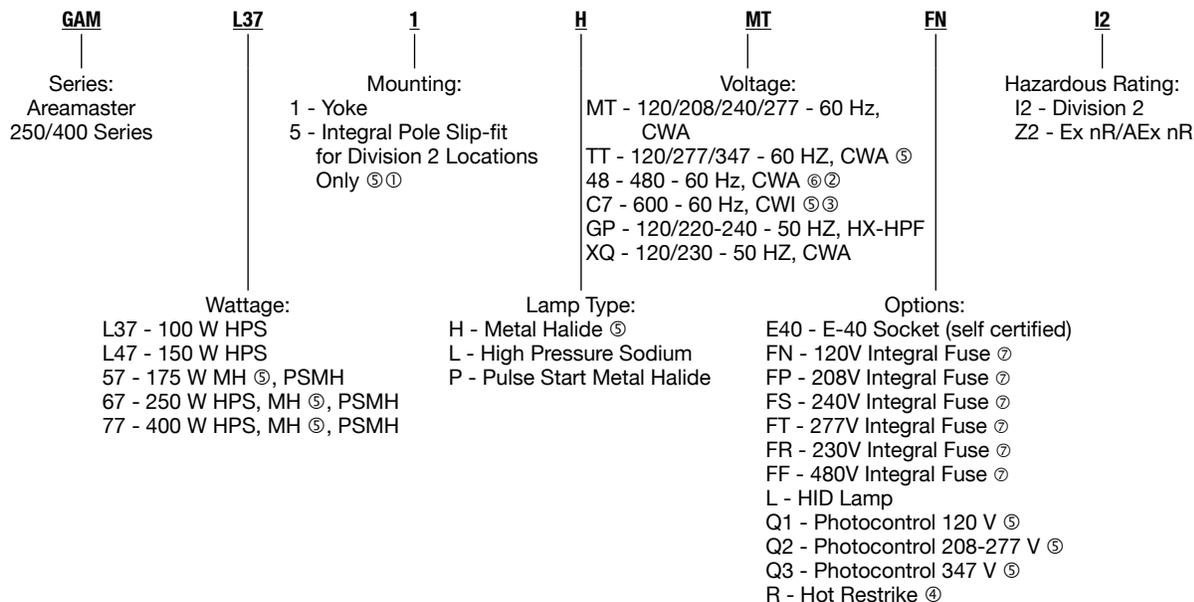
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Order using catalog numbering guide below or select catalog number from tables on following pages.

## Catalog Numbering Guide For Areamaster 250/400 Floodlights



“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

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

“T” Numbers Represent the Maximum Surface Temperature for Luminaires with AEx nA nR or AEx nR rating

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

① Slip-fit for 2" to 2-1/2" pole top tenons.

② For CEC 480 V, 60 Hz, consult factory.

③ Not for available for PSMH versions.

④ For NEC, “Hot Restrike” option available for 100 W through 150 W HPS only. For CEC, “Hot Restrike” option available for up to 400 W.

⑤ Certified to meet the Canadian Electrical Code (CEC) only. Mercury vapor and metal halide luminaires are not available for purchase within the United States.

Please check with your countries governing legislation regarding allowable lamp types before ordering.

⑥ Certified to meet the National Electrical Code (NEC) only.

⑦ Optional fusing is available for use with NEC Rated products.

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**“T” Numbers**

Watts	Lamp		Supply Wire Temp. °C (°F)	Ambient Temp. °C (°F)	NEC/CEC	CEC	NEC/CEC
	Type	Voltage			Class I, Division 2, Groups A, B, C, D	Class II, Division 1 and 2, Groups E, F, G	Class I, Zone 2
100	HPS	MT, TT, GP, 48, C7	75 (167)	40 (104)	T3	T3B	T5
			90 (194)	55 (131)	T2D	—	T4
			105 (221)	65 (149)	T2C	—	T4
150	HPS	MT, TT, GP, 48, C7	90 (194)	40 (104)	T2C	T3B	T4
			105 (221)	55 (131)	T2B	—	T4
			125 (257)	65 (149)	T2B	—	T3
250	HPS	MT, XQ 48, C7	75 (167)	40 (104)	350 °C (662 °F)	T3B	T4
			90 (194)	55 (131)	350 °C (662 °F)	—	T3
			105 (221)	65 (149)	T1	—	T3
400	HPS	MT, TT, XQ 48, C7	105 (221)	40 (104)	T1	T3B	T3
			125 (257)	50 (122)	—	—	T3
			90 (194)	40 (104)	T2	T3B	T4
175	PSMH	MT, 48	105 (221)	55 (131)	325 °C (617 °F)	—	T3
			125 (257)	65 (149)	325 °C (617 °F)	—	T3
			85 (185)	40 (104)	325 °C (617 °F)	T3B	T3
250	PSMH	MT, TT, 48	105 (221)	55 (131)	325 °C (617 °F)	—	T3
			110 (230)	65 (149)	—	—	T3
			105 (221)	40 (104)	325 °C (617 °F)	T3B	T3
400	PSMH	MT, TT, 48	125 (257)	55 (131)	325 °C (617 °F)	—	T3
			90 (194)	40 (104)	T2	120 °C (248 °F)	T4
			105 (221)	55 (131)	325 °C (617 °F)	120 °C (248 °F)	T3
175	MH ①	MT, TT, CT	110 (230)	65 (149)	325 °C (617 °F)	120 °C (248 °F)	T3
			85 (185)	40 (104)	325 °C (617 °F)	120 °C (248 °F)	T3
			105 (221)	55 (131)	350 °C (662 °F)	120 °C (248 °F)	T3
250	MH ①	MT, TT, CT	110 (230)	65 (149)	350 °C (662 °F)	120 °C (248 °F)	T3
			105 (221)	40 (104)	325 °C (617 °F)	120 °C (248 °F)	T3
			400	40 (104)	325 °C (617 °F)	120 °C (248 °F)	T3

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED



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Lamp	Line Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number	
				Class 1, Division 2	Class I, Zone 2 Ex nR/AEx nR
<b>High Pressure Sodium</b>					
100 W HPS	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AML371L-MT-I/2	G-AML371L-MT-Z2
	120/220-240 V 50 Hz			G-AML371L-GP-I/2	G-AML371L-GP-Z2
	480			G-AML371L-48-I/2 ②	G-AML371L-48-Z2 ②
150 W HPS	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AML471L-MT-I/2	G-AML471L-MT-Z2
	120/220-240 V 50 Hz			G-AML471L-GP-I/2	G-AML471L-GP-Z2
	480			G-AML471L-48-I/2 ②	G-AML471L-48-Z2 ②
	120/277/347			G-AML471L-TT-I/2 ③	G-AML471L-TT-Z2 ③
	600 ①			G-AML471L-C7-I/2 ③	G-AML471L-C7-Z2 ③
250 W HPS	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671L-MT-I/2	G-AM671L-MT-Z2
	120/230 V 50 Hz			G-AM671L-XQ-I/2	G-AM671L-XQ-Z2
	480			G-AM671L-48-I/2 ②	G-AM671L-48-Z2 ②
	120/277/347			G-AM671L-TT-I/2 ③	G-AM671L-TT-Z2 ③
	600 ①			G-AM671L-C7-I/2 ③	G-AM671L-C7-Z2 ③
400 W HPS	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771L-MT-I/2	G-AM771L-MT-Z2
	120/230 V 50 Hz			G-AM771L-XQ-I/2	G-AM771L-XQ-Z2
	480			G-AM771L-48-I/2 ②	G-AM771L-48-Z2 ②
	120/277/347			G-AM771L-TT-I/2 ③	G-AM771L-TT-Z2 ③
	600 ①			G-AM771L-C7-I/2 ③	G-AM771L-C7-Z2 ③

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED

Appleton®

① Supplied complete with CWI Isolated Secondary Ballast for 600 Vac.  
② Certified to meet the National Electrical Code (NEC) only.  
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Lamp	Line Voltage	Weight kg (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number	
				For Class 1, Division 2 Classified Duty and Marine Yoke Mount	Class I, Zone 2 Yoke Mounting
<b>Pulse Start Metal Halide</b>					
175 W PSMH	120/208/240/277	12.9 (28.4)	62.5 (3814)	G-AM571P-MT-I/2	G-AM571P-MT-Z2
	480			G-AM571P-48-I/2 ②	G-AM571P-48-Z2
250 W PSMH	120/208/240/277	14.3 (31.5)	62.5 (3814)	G-AM671P-MT-I/2	G-AM671P-MT-Z2
	480			G-AM671P-48-I/2 ②	G-AM671P-48-Z2 ②
	120/277/347			G-AM671P-TT-I/2 ③	G-AM671P-TT-Z2
400 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM771P-MT-I/2	G-AM771P-MT-Z2
	480			G-AM771P-48-I/2 ②	G-AM771P-48-Z2 ②
	120/277/347			G-AM771P-TT-I/2 ③	G-AM771P-TT-Z2 ③
<b>Metal Halide ④</b>					
175 W MH	120/277/347	12.9 (28.4)	62.5 (3814)	G-AM571H-TT-I/2 ③	G-AM571H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM571H-XP-I/2 ③	G-AM571H-XP-Z2 ③
	600 ①			G-AM571H-C7-I/2 ③	G-AM571H-C7-Z2 ③
250 W MH	120/277/347	14.3 (31.5)	62.5 (3814)	G-AM671H-TT-I/2 ③	G-AM671H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM671H-XP-I/2 ③	G-AM671H-XP-Z2 ③
	600 ①			G-AM671H-C7-I/2 ③	G-AM671H-C7-Z2 ③
400 W MH	120/277/347	16.0 (35.3)	62.5 (3814)	G-AM771H-TT-I/2 ③	G-AM771H-TT-Z2 ③
	120/220-240 V 50 Hz			G-AM771H-XP-I/2 ③	G-AM771H-XP-Z2 ③
	600 ①			G-AM771H-C7-I/2 ③	G-AM771H-C7-Z2 ③

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