

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

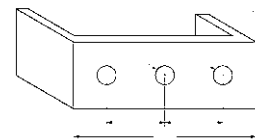
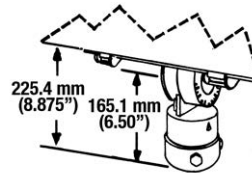
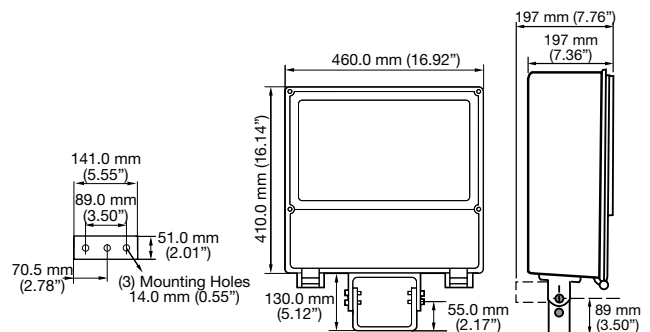
- Ballast housing, lens cover, yoke and pole mount: architectural bronze polyester
- Socket: nickel-plated

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

Catalog Numbering Guide For Areamaster 250/400 Floodlights

GAM	L37	1	H	MT	FN	I2
Series: Areamaster 250/400 Series		Mounting: 1 - Yoke 5 - Integral Pole Slip-fit for Division 2 Locations Only ⑤①		Voltage: MT - 120/208/240/277 - 60 Hz, CWA TT - 120/277/347 - 60 HZ, CWA ⑤ 48 - 480 - 60 Hz, CWA ⑥② C7 - 600 - 60 Hz, CWI ⑤③ XP - 120/220-240 - 50 HZ, CWA		Hazardous Rating: I2 - Division 2 Z2 - Ex nR/AEx nR
	Wattage: L37 - 100 W HPS L47 - 150 W HPS 57 - 175 W MH ⑤, PSMH 67 - 250 W HPS, MH ⑤, PSMH 327 - 320 W PSMH 77 - 400 W HPS, MH ⑤, PSMH		Lamp Type: H - Metal Halide ⑤ L - High Pressure Sodium P - Pulse Start Metal Halide		Options: E40 - E-40 Socket (self certified) FN - 120V Integral Fuse ⑦ FP - 208V Integral Fuse ⑦ FS - 240V Integral Fuse ⑦ FT - 277V Integral Fuse ⑦ FR - 230V Integral Fuse ⑦ FF - 480V Integral Fuse ⑦ L - HID Lamp Q1 - Photocontrol 120 V ⑤ Q2 - Photocontrol 208-277 V ⑤ Q3 - Photocontrol 347 V ⑤ R - Hot Restrike ④	

“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.

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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NEC/CEC:

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"T" Numbers

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

① 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.

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Lamp	Line Voltage	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
				Class 1, Division 2	Class I, Zone 2 Ex nR/AEx nR
High Pressure Sodium					
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-XP-I/2	G-AML371L-XP-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-XP-I/2	G-AML471L-XP-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
	120/220-240 V 50 Hz			G-AM671L-XP-I/2	G-AM671L-XP-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
	120/220-240 V 50 Hz			G-AM771L-XP-I/2	G-AM771L-XP-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

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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Class III

NEC/CEC:

Wet locations
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Catalog Number					
Lamp	Line Voltage	Weight kg (lb)	Volume dm³ (in³)	For Class 1, Division 2 Classified Duty and Marine Yoke Mount	Class I, Zone 2 Yoke Mounting
Pulse Start Metal Halide					
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
	120/277/347			G-AM571P-TT-I/2 ③	G-AM571P-TT-Z2 ③
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
320 W PSMH	120/208/240/277	16.0 (35.3)	62.5 (3814)	G-AM3271P-MT-I/2	G-AM3271P-MT-Z2 ③
	480			G-AM3271P-48-I/2 ②	G-AM3271P-48-Z2 ②
	120/277/347			G-AM3271P-TT-I/2 ③	G-AM3271P-TT-Z2 ③
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
Metal Halide ④					
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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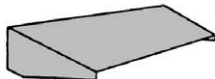
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	Description	Catalog Numbers
Crossarm Mounting Bracket		
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	G-AM-8-CA
Pipe or Wall Mount Bracket		
	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.	G-AM-8-WB
Poletop Slip-Fitter		
	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.	G-SF20
	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.	G-AM-8-SF
Vandal Shield		
	UV stabilized polycarbonate, with installation hardware and instructions.	G-AM-6-VS
Top Visor		
	Easy to install with hardware supplied. Aluminum, with architectural bronze polyester finish.	G-AM-6-V

HID/FLOODLIGHT: NEC/CEC ENCLOSED AND GASKETED

Appleton®

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Line Voltage	Frequency	Type of Ballast	Starting Amps	Operating Amps	Total Watts
100 Watt High Pressure Sodium					
120	60	HX-HPF	1.30	1.15	130
208	60	HX-HPF	0.76	0.67	130
240	60	HX-HPF	0.66	0.60	130
277	60	HX-HPF	0.60	0.52	130
347	60	HX-HPF	0.45	0.39	130
480	60	HX-HPF	0.33	0.31	135
120	50	HX-HPF	0.90	1.20	130
220	50	HX-HPF	0.50	0.65	130
240	50	HX-HPF	0.45	0.60	130
150 Watt High Pressure Sodium					
120	60	HX-HPF	2.00	1.70	188
208	60	HX-HPF	1.15	0.95	188
240	60	HX-HPF	1.00	0.85	188
277	60	HX-HPF	0.85	0.72	188
347	60	HX-HPF	0.52	0.56	188
480	60	HX-HPF	0.50	0.47	189
120	50	HX-HPF	1.50	1.60	188
220	50	HX-HPF	0.85	0.90	188
240	50	HX-HPF	0.75	0.80	188
250 Watt High Pressure Sodium					
120	60	CWA	2.00	2.50	295
208	60	CWA	1.20	1.50	295
240	60	CWA	1.00	1.30	295
277	60	CWA	0.85	1.10	295
347	60	CWA	0.60	0.93	295
480	60	CWA	0.40	0.65	295
120	50	CWA	1.85	2.75	300
220	50	CWA			
240	50	CWA			
400 Watt High Pressure Sodium					
120	60	CWA	3.30	3.80	465
208	60	CWA	1.80	2.20	465
240	60	CWA	1.60	1.90	465
277	60	CWA	1.40	1.70	465
347	60	CWA	1.00	1.32	464
480	60	CWA	0.80	1.00	465
120	50	CWA	3.70	4.00	465
220	50	CWA			
240	50	CWA			
175 Watt Pulse Start Metal Halide					
120	60	Super CWA	0.90	1.78	199
208	60	Super CWA	0.50	1.08	199
240	60	Super CWA	0.35	0.89	199
277	60	Super CWA	0.30	0.76	199
347	60	Super CWA	0.25	0.65	208
480	60	Super CWA	0.25	0.50	213
250 Watt Pulse Start Metal Halide					
120	60	Super CWA	1.90	2.50	288
208	60	Super CWA	1.10	1.45	288
240	60	Super CWA	0.96	1.25	288
277	60	Super CWA	0.85	1.10	288
347	60	Super CWA	0.62	0.90	291
480	60	Super CWA	0.45	0.60	285
320 Watt Pulse Start Metal Halide					
120	60	Super CWA	2.60	3.25	368
208	60	Super CWA	1.50	1.90	368
240	60	Super CWA	1.30	1.65	368
277	60	Super CWA	1.15	1.40	368
347	60	Super CWA	0.70	1.10	368
480	60	Super CWA	0.60	0.80	368
400 Watt Pulse Start Metal Halide					
120	60	Super CWA	3.50	4.00	454
208	60	Super CWA	2.00	2.30	454
240	60	Super CWA	1.25	2.00	454
277	60	Super CWA	1.50	1.75	454
347	60	Super CWA	1.10	1.35	452
480	60	Super CWA	0.90	1.00	454
175 Watt Metal Halide ①					
120	60	CWA	1.30	1.80	213
208	60	CWA	0.75	1.10	213
240	60	CWA	0.65	0.90	213
277	60	CWA	0.55	0.80	213
347	60	CWA	0.50	0.65	210
480	60	CWA	0.35	0.45	213
120	50	CWA	1.70	1.90	210
220	50	CWA	0.80	1.10	210
240	50	CWA			
250 Watt Metal Halide ①					
120	60	CWA	1.20	2.60	295
208	60	CWA	0.65	1.50	295
240	60	CWA	0.60	1.30	295
277	60	CWA	0.50	1.12	295
347	60	CWA	0.80	0.90	295
480	60	CWA	0.30	0.65	298
120	50	CWA	2.00	2.50	285
220	50	CWA	0.94	1.30	285
240	50	CWA			
400 Watt Metal Halide ①					
120	60	CWA	3.25	4.00	458
208	60	CWA	1.90	2.30	458
240	60	CWA	1.65	2.00	458
277	60	CWA	1.40	1.75	458
347	60	CWA	1.20	1.40	460
480	60	CWA	0.85	1.00	462
120	50	CWA	2.70	4.10	480
220	50	CWA	1.50	2.20	480
240	50	CWA			

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Areamaster™ 250/400 Integrally Ballasted Floodlights

100 W to 400 W HID

For hazardous and marine locations.

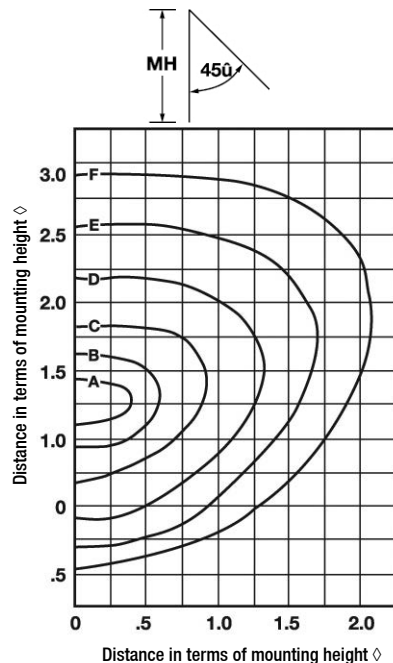
NEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nR, Groups IIA, IIB, IIC

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

Photometric Data

Typical Footcandle Values ♦



Mtg. Ht. Meters (feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
400W HPS						
18.3 m (60')	3.27	2.74	1.82	0.92	0.37	0.18
15.2 m (50')	4.74	4.00	2.90	1.37	0.52	0.27
12.2 m (40')	7.65	6.28	4.38	2.27	0.82	0.43
9.1 m (30')	13.10	10.92	7.83	3.47	1.45	0.77
6.1 m (20')	28.22	25.55	17.37	7.28	3.46	1.82

400W MH ①						
18.3 m (60')	2.32	1.66	1.00	0.58	0.33	0.17
15.2 m (50')	3.32	2.32	1.49	0.76	0.48	0.25
12.2 m (40')	5.48	3.62	2.32	1.33	0.75	0.36
9.1 m (30')	9.79	7.80	3.98	2.16	1.33	0.68
6.1 m (20')	17.26	14.60	9.30	5.31	3.15	1.49

For 400W PSMH multiply FC values by 1.29; for 320W PSMH use 0.97.

400W PSMH						
18.3 m (60')	2.60	1.86	1.12	0.65	0.37	0.19
15.2 m (50')	3.72	2.60	1.66	0.85	0.54	0.28
12.2 m (40')	6.14	4.05	2.60	1.49	0.84	0.40
9.1 m (30')	10.96	8.74	4.46	2.42	1.49	0.76
6.1 m (20')	19.33	16.35	10.41	5.94	3.53	1.67

Mtg. Ht. Meters (feet)	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F
250W HPS						
18.3 m (60')	1.96	1.64	1.09	0.55	0.22	0.11
15.2 m (50')	2.84	2.40	1.74	0.82	.031	0.16
12.2 m (40')	4.58	3.76	2.62	1.36	0.49	0.26
9.1 m (30')	7.85	6.54	4.69	2.08	0.87	0.46
6.1 m (20')	16.90	15.30	10.40	4.36	2.07	1.09

250W MH ①						
18.3 m (60')	1.40	1.00	0.60	0.35	0.20	0.10
15.2 m (50')	2.00	1.40	0.90	0.46	0.29	0.15
12.2 m (40')	3.30	2.18	1.40	0.80	0.45	0.22
9.1 m (30')	5.90	4.70	2.40	1.30	0.80	0.41
6.1 m (20')	10.40	8.80	5.60	3.20	1.90	0.90

For 175W MH lamps, multiply FC values by 0.68. For 175W PSMH Lamps 0.85; for 200W PSMH use 1.03; for 250W PSMH use 1.22.

250W PSMH						
18.3 m (60')	1.90	1.63	0.82	0.48	0.27	0.14
15.2 m (50')	2.72	1.90	1.22	0.63	0.39	0.20
12.2 m (40')	4.48	2.96	1.90	1.09	0.61	0.30
9.1 m (30')	8.00	6.40	3.26	1.76	1.09	0.55
6.1 m (20')	14.40	11.97	7.61	4.35	2.58	1.22

For 175W MH lamps, multiply FC values by 0.68. For 175W PSMH Lamps 0.85; for 200W PSMH use 1.03; for 250W PSMH use 1.22.

♦ i.e., ratio of distance to height. Example: @ 6.1 meter (20 foot) mounting height, 1 means 6.1 meter (20 foot); 2 means 12.2 meter (40 foot), etc.

♦ Photometric charts available on request.

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