

Areamaster™ 250/400

Integrally ballasted floodlights for 400W, 250W, 150W, 100W, or 70W high pressure sodium lamps; 400W, 250W, or 175W metal halide lamps; 400W, 320W, 250W, or 200W pulse start metal halide and 400W, 250W, or 175W mercury vapor lamps. For general, marine, and Class I, Div. 2, Groups A, B, C and D hazardous locations.

Applications

- Powerful, efficient weatherproof lighting for medium and large areas such as shopping malls, parking lots, sports areas, new-car lot lighting, security lighting and industrial process lighting.

Features

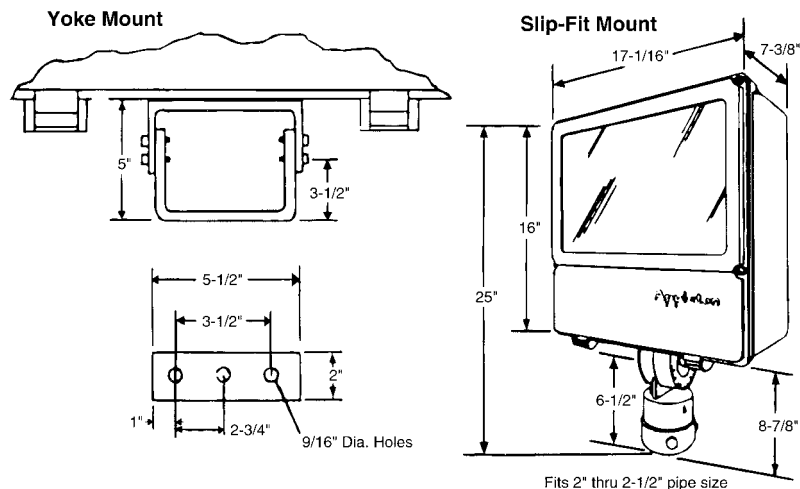
- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- Integral ballast; choice of multi-tap for 120, 208, 240, or 277V lines, or for 480 lines.
- Housing: one-piece pressure-cast copper-free aluminum with architectural bronze POLYESTER finish.
- Lens door: one-piece pressure-cast copper-free aluminum with architectural bronze POLYESTER finish. Secured by four 1/4" Dia. captive stainless steel slotted hex-head bolts.
- Lens: thermal-shock and impact resistant glass.
- Gasket: heavy duty, high temperature silicone rubber, firmly seated.
- Socket: heavy duty, mogul base porcelain with heavy gauge brass, nickel plated, double lamp-grip screw shell and spring loaded center contact.
- Reflector: compound parabolic, double segment, Alzak® finished aluminum 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 2" or 2 1/2" pipe. Architectural bronze POLYESTER finish.
- Cool operating temperatures for Class I, Division 2 fixtures translate into long luminaire life.

Compliances

- UL Standard 1598A.
- UL Standard 844.
- Marine type electric fixtures, outside type (salt water).
- Appleton aluminum products are produced from a high strength copper-free (4/10 of 1% max.) alloy.



**Projected Area:
1.9 Sq. Ft.**



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Ordering Information

Lamp	Line Voltage	For General Duty		**For Class 1, Div. 2 Classified Duty and Marine
		Yoke Mount Catalog Number♦	Slip-Fit Mount‡ Catalog Number♦	Yoke Mount Catalog Number*
High Pressure Sodium				
70W HPS	120-277⊕	----	----	G-AML271L-MT-I/2
70W HPS	480⊕	----	----	G-AML271L-48-I/2
100W HPS	120-277⊕	----	----	G-AML371L-MT-I/2
100W HPS	480⊕	----	----	G-AML371L-48-I/2
150W HPS	120-277⊕	----	----	G-AML471L-MT-I/2
150W HPS	480⊕	----	----	G-AML471L-48-I/2
250W HPS	120-277◇	G-AM671L-MT	G-AM675L-MT	G-AM671L-MT-I/2
250W HPS	480	G-AM671L-48	G-AM675L-48	G-AM671L-48-I/2
400W HPS	120-277◇	G-AM771L-MT	G-AM775L-MT	G-AM771L-MT-I/2
400W HPS	480	G-AM771L-48	G-AM775L-48	G-AM771L-48-I/2
Metal Halide				
175W MH	120-277◇	G-AM571H-MT	G-AM575H-MT	G-AM571H-MT-I/2
175W MH	480	G-AM571H-48	G-AM575H-48	G-AM571H-48-I/2
250W MH	120-277◇	G-AM671H-MT	G-AM675H-MT	G-AM671H-MT-I/2
250W MH	480	G-AM671H-48	G-AM675H-48	G-AM671H-48-I/2
400W MH	120-277◇	G-AM771H-MT	G-AM775H-MT	G-AM771H-MT-I/2
400W MH	480	G-AM771H-48	G-AM775H-48	G-AM771H-48-I/2
Pulse Start Metal Halide				
200W PSMH	120-277◇	G-AM2071P-MT	G-AM2075P-MT	G-AM2071P-MT-I/2
200W PSMH	480	G-AM2071P-48	G-AM2075P-48	G-AM2071P-48-I/2
250W PSMH	120-277◇	G-AM671P-MT	G-AM675P-MT	G-AM671P-MT-I/2
250W PSMH	480	G-AM671P-48	G-AM675P-48	G-AM671P-48-I/2
320W PSMH	120-277◇	G-AM3271P-MT	G-AM3275P-MT	G-AM3271P-MT-I/2
320W PSMH	480	G-AM3271P-48	G-AM3275P-48	G-AM3271P-48-I/2
400W PSMH	120-277◇	G-AM771P-MT	G-AM775P-MT	G-AM771P-MT-I/2
400W PSMH	480	G-AM771P-48	G-AM775P-48	G-AM771P-48-I/2
Mercury Vapor				
175W MV	120-277◇	G-AM571M-MT	G-AM575M-MT	G-AM571M-MT-I/2
175W MV	480	G-AM571M-48	G-AM575M-48	G-AM571M-48-I/2
250W MV	120-277◇	G-AM671M-MT	G-AM675M-MT	G-AM671M-MT-I/2
250W MV	480	G-AM671M-48	G-AM675M-48	G-AM671M-48-I/2
400W MV	120-277◇	G-AM771M-MT	G-AM775M-MT	G-AM771M-MT-I/2
400W MV	480	G-AM771M-48	G-AM775M-48	G-AM771M-48-I/2

NOTE: For Zone 2 Areamaster™ 250/400, See Catalog Section F1.

◇ Ballast has primary taps for 120V, 208V, 240V, and 277V. ‡Slip-fits 2" or 2-1/2" pipe-size tenons. ♦ Add suffix E to catalog number if provision for quartz emergency lamp is desired. Furnished with socket installed and pre-wired. * Quartz emergency lamp not available for Class I, Div. 2 fixtures. Classified duty floodlights have 1/2" N.P.T tapped hub for power entry. Use 90° supply wire. ⊕ For Hot Restrike Option, add suffix -R.

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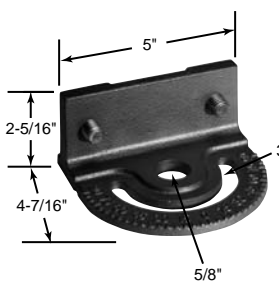
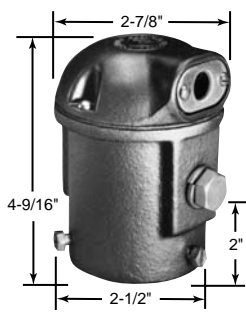
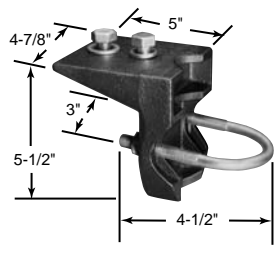

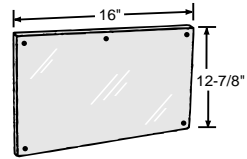
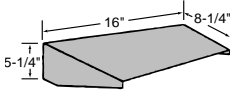
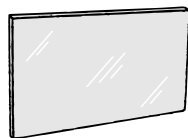
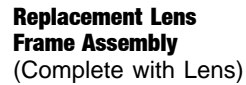
"T" Numbers for Areamaster 250/400 I/2

Lamp		Supply Temp Wire °C	Ambient Temp °C	Class I, Div. 2	
Watts	Type			T #'s	Range °C
70	HPS	60	40	T3C	136-160
		70	55	T3B	161-165
		90	65	T3A	166-180
100	HPS	75	40	T3	181-200
		90	55	T2D	201-215
		105	65	T2C	216-230
150	HPS	85	40	T2B	231-260
		105	55	T2B	231-260
		110	65	T2B	231-260
250	HPS	75	40	350	326-350
		90	55	350	326-350
		105	65	T1	351-450
400	HPS	105	40	T1	351-450
175	MH	90	40	T2	281-300
		105	55	325	301-325
		110	65	325	301-325
250	MH	85	40	325	301-325
		105	55	350	326-350
		110	65	350	326-350
400	MH	105	40	325	301-325
200	PSMH	75	40	325	301-325
		85	55	325	301-325
		105	65	325	301-325
250	PSMH	85	40	325	301-325
		105	55	325	301-325
320	PSMH	85	40	325	301-325
		105	55	325	301-325
400	PSMH	105	40	325	301-325
		125	55	325	301-325
175	MV	75	40	T2	281-300
		90	55	325	301-325
		105	65	325	301-325
250	MV	85	40	350	326-350
		105	55	T1	351-400
400	MV	105	40	350	326-350

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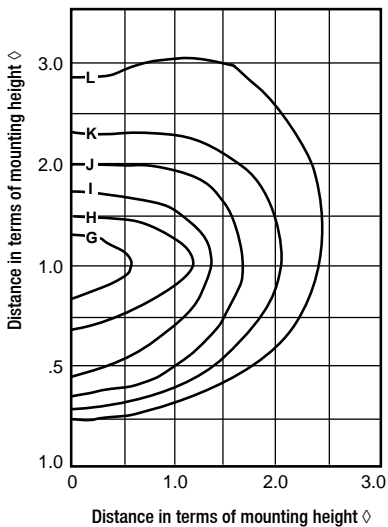
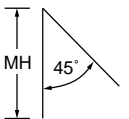
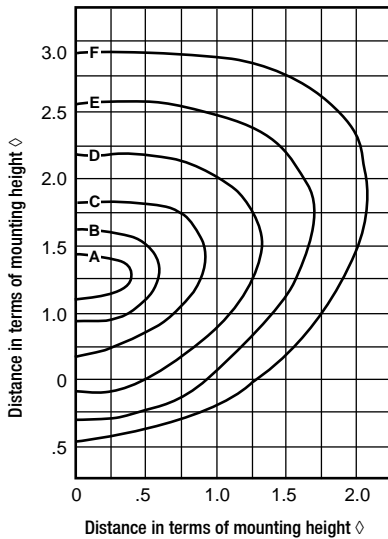
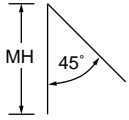
Mounting Fittings and Accessories

Dimensions	Description	Cat. No.	Dimensions	Description	Cat. No.
 <p>5" 2-5/16" 4-7/16" 3/8" 5/8"</p>	<p>Crossarm Mounting Bracket</p> <p>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.</p>	G-AM-8-CA	 <p>2-7/8" 4-9/16" 2-1/2" 2"</p>	<p>Poletop Slip-Fitter</p> <p>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.</p>	G-SF20
 <p>4-7/8" 5" 3" 5-1/2" 4-1/2"</p>	<p>Pipe or Wall Mount Bracket</p> <p>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.</p>	G-AM-8-WB		<p>Locking-Type Photocontrol Receptacle</p> <p>For NEMA type photocontrol, with installation hardware and instructions. Should not be mounted on Class I, Division 2 units.</p>	G-1PCR
 <p>16" 12-7/8"</p>	<p>Vandal Shield</p> <p>UV stabilized polycarbonate, with installation hardware and instructions.</p>	G-AM-6-VS	 <p>16" 8-1/4" 5-1/4"</p>	<p>Top Visor</p> <p>Easy to install with hardware supplied. Aluminum, with architectural bronze POLYESTER finish.</p>	G-AM-6-V
	<p>Replacement Lens</p>	604249003		<p>Replacement Lens Frame Assembly (Complete with Lens)</p>	59607383002

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Typical Footcandle Values ♦



Mtg. Ht.	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F

400W HPS

60'	3.27	2.74	1.82	0.92	0.37	0.18
50'	4.74	4.00	2.90	1.37	0.52	0.27
40'	7.65	6.28	4.38	2.27	0.82	0.43
30'	13.10	10.92	7.83	3.47	1.45	0.77
20'	28.22	25.55	17.37	7.28	3.46	1.82

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

400W MH

60'	2.32	1.66	1.00	0.58	0.33	0.17
50'	3.32	2.32	1.49	0.76	0.48	0.25
40'	5.48	3.62	2.32	1.33	0.75	0.36
30'	9.79	7.80	3.98	2.16	1.33	0.68
20'	17.26	14.60	9.30	5.31	3.15	1.49

400W MV

60'	1.30	1.02	0.69	0.46	0.28	0.19
50'	1.86	1.49	1.02	0.65	0.39	0.28
40'	2.98	2.32	1.52	1.04	0.63	0.43
30'	4.65	4.09	2.79	1.95	1.15	0.78
20'	11.25	9.49	6.70	4.37	2.42	1.58

Mtg. Ht.	Ft. Cdles for Iso-Footcandle Lines					
	G	H	I	J	K	L

For 100W HPS lamps, multiply FC values by 1.5. For 150W HPS lamps, multiply FC values by 2.5.

70W HPS

10'	10.00	5.00	2.50	1.00	0.50	0.25
20'	2.50	1.00	0.50	0.25	0.10	0.05
30'	1.00	0.50	0.25	0.10	0.05	0.02

Mtg. Ht.	Ft. Cdles for Iso-Footcandle Lines					
	A	B	C	D	E	F

250W HPS

60'	1.96	1.64	1.09	0.55	0.22	0.11
50'	2.84	2.40	1.74	0.82	0.31	0.16
40'	4.58	3.76	2.62	1.36	0.49	0.26
30'	7.85	6.54	4.69	2.08	0.87	0.46
20'	16.90	15.30	10.40	4.36	2.07	1.09

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 MH

60'	1.40	1.00	0.60	0.35	0.20	0.10
50'	2.00	1.40	0.90	0.46	0.29	0.15
40'	3.30	2.18	1.40	0.80	0.45	0.22
30'	5.90	4.70	2.40	1.30	0.80	0.41
20'	10.40	8.80	5.60	3.20	1.90	0.90

For 175W MV lamps, multiply FC values by 0.68.

250W MV

60'	.70	0.55	0.37	0.25	0.15	0.10
50'	1.00	0.80	0.55	0.35	0.21	0.15
40'	1.60	1.25	0.82	0.56	0.34	0.23
30'	2.80	2.20	1.50	1.05	0.62	0.42
20'	6.05	5.10	3.60	2.35	1.30	0.85

♦ (i.e., ratio of distance to height. Example: @ 20' mounting height, 1 means 20'; 2 means 40', etc. ♦ Photometric charts available on request.

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ELECTRICAL SPECIFICATIONS

For C.W.A. type ballasts

Line Volts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts
	400W High Pressure Sodium			400W Metal Halide			250W Metal Halide			175W Metal Halide		
120	2.70	3.80	457	3.25	4.00	458	1.20	2.60	295	1.3	1.80	210
208	1.70	2.20	457	1.90	2.30	458	0.65	1.50	295	0.75	1.04	210
240	1.40	1.90	457	1.65	2.00	458	0.60	1.30	295	0.65	0.90	210
277	1.30	1.70	457	1.40	1.75	458	0.50	1.12	295	0.55	0.80	210
480	0.70	1.00	457	0.85	1.00	462	0.30	0.65	295	0.35	0.45	210
	250W High Pressure Sodium			400W Mercury Vapor			250W Mercury Vapor			175W Mercury Vapor		
120	1.60	2.70	295	3.40	3.90	454	2.40	2.50	285	1.65	1.75	200
208	0.95	1.50	295	2.00	2.20	454	1.40	1.45	285	0.95	1.00	200
240	0.80	1.30	295	1.70	1.95	454	1.20	1.25	285	0.83	0.87	200
277	0.70	1.15	295	1.50	1.70	454	1.00	1.10	285	0.72	0.76	200
480	0.40	0.65	295	0.95	0.98	454	0.62	0.62	285	0.41	0.44	200

For Super C.W.A. Pulse Start Metal Halide

Line Volts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts
	200W Pulse Start			250W Pulse Start			320W Pulse Start			400W Pulse Start		
120	0.75	2.00	232	2.30	2.50	288	1.80	3.25	288	3.50	4.00	453
208	0.40	1.20	232	1.30	1.45	288	1.05	1.90	288	2.00	2.30	453
240	0.35	1.00	232	1.15	1.25	288	0.90	1.65	288	1.75	2.00	453
277	0.30	0.85	232	1.00	1.10	288	0.80	1.40	288	1.50	1.75	453
480	0.18	0.50	232	0.21	0.57	270	0.45	0.80	288	0.90	1.00	456

For HX-HPF type ballasts

Line Volts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts	Start Amps	Oper. Amps	Total Watts
	70W High Pressure Sodium			100W High Pressure Sodium			150W High Pressure Sodium		
120	0.90	0.82	94	1.30	1.15	130	2.00	1.65	188
208	0.50	0.48	94	0.76	0.67	130	1.16	0.95	188
240	0.44	0.41	94	0.66	0.58	130	1.00	0.83	188
277	0.35	0.36	94	0.60	0.50	130	0.86	0.75	188
480	0.21	0.20	94	0.33	0.29	130	0.50	0.42	188

Use 90°C rated supply wire.

Supplementary Photometric Information*



Catalog Number	Lamp	Photometric Data
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Areamaster™ 100 Floodlights



High Pressure Sodium				
G-AM471L-MT	WATTS	150	HORIZONTAL SPREAD	141°
	LUMENS	16,000	VERTICAL SPREAD	115°
	BULB	E-23-1/2 Clear	BEAM LUMENS	8148
	LIGHT CENTER LGTH.	5"	BEAM EFFICIENCY	50.9%
	BASE	Mogul Screw	MAX. CP.	5155
		TOTAL LUMENS	8552	
		TOTAL EFFICIENCY	53.5%	
G-AM371L-MT	WATTS	100	HORIZONTAL SPREAD	141°
	LUMENS	9500	VERTICAL SPREAD	115°
	BULB	E-23-1/2 Clear	BEAM LUMENS	4838
	LIGHT CENTER LGTH.	5"	BEAM EFFICIENCY	50.9%
	BASE	Mogul Screw	MAX. CP.	3061
		TOTAL LUMENS	5062	
		TOTAL EFFICIENCY	53.3%	
G-AM271L-MT	WATTS	70	HORIZONTAL SPREAD	141°
	LUMENS	5800	VERTICAL SPREAD	113°
	BULB	E-23-1/2 Clear	BEAM LUMENS	2982
	LIGHT CENTER LGTH.	5"	BEAM EFFICIENCY	51.4%
	BASE	Mogul Screw	MAX. CP.	2025
		TOTAL LUMENS	3124	
		TOTAL EFFICIENCY	53.9%	
Mercury Vapor				
G-AM371M-MT	WATTS	100	HORIZONTAL SPREAD	144°
	LUMENS	4200	VERTICAL SPREAD	137°
	BULB	E-23-1/2 DX White	BEAM LUMENS	1900
	LIGHT CENTER LGTH.	5"	BEAM EFFICIENCY	45.2%
	BASE	Mogul Screw	MAX. CP.	1042
		TOTAL LUMENS	1970	
		TOTAL EFFICIENCY	46.9%	

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High Pressure Sodium				
G-AM771L-MT	WATTS	400	HORIZONTAL SPREAD	130°
	LUMENS	50,000	VERTICAL SPREAD	121°
	BULB	E-18 Clear	BEAM LUMENS	30,724
	LIGHT CENTER LGTH.	5-3/4"	BEAM EFFICIENCY	61.4%
	BASE	Mogul Screw	MAX. CP.	29,102
		TOTAL LUMENS	32,556	
		TOTAL EFFICIENCY	65.1%	
G-AM671L-MT	WATTS	250	HORIZONTAL SPREAD	126°
	LUMENS	30,000	VERTICAL SPREAD	115°
	BULB	E-18 Clear	BEAM LUMENS	18,068
	LIGHT CENTER LGTH.	5-3/4"	BEAM EFFICIENCY	60.2%
	BASE	Mogul Screw	MAX. CP.	18,925
		TOTAL LUMENS	19,270	
		TOTAL EFFICIENCY	64.2%	
Metal Halide				
G-AM771H-MT	WATTS	400	HORIZONTAL SPREAD	126°
	LUMENS	34,000	VERTICAL SPREAD	112°
	BULB	E-37 Clear	BEAM LUMENS	21,216
	LIGHT CENTER LGTH.	7"	BEAM EFFICIENCY	62.4%
	BASE	Mogul Screw	MAX. CP.	28,390
		TOTAL LUMENS	22,404	
		TOTAL EFFICIENCY	65.9%	

Photometric Data typical for all voltages.

*Photometric charts available on request.

Continued on following page

Supplementary Photometric Information*

Continued from preceding page

Areamaster™ 250/400 Floodlights (Continued)

Catalog Number	Lamp	Photometric Data
Metal Halide (Cont'd)		
G-AM671H-MT	WATTS	250
	LUMENS	20,500
	BULB	E-28 Clear
	LIGHT CENTER LGTH.	5"
	BASE	Mogul Screw
G-AM571H-MT	WATTS	175
	LUMENS	14,000
	BULB	E-28 Clear
	LIGHT CENTER LGTH.	5"
	BASE	Mogul Screw
Pulse Start Metal Halide		
G-AM771P-MT	WATTS	400
	LUMENS	44,000
	BULB	E-37 Clear
	LIGHT CENTER LGTH.	7"
	BASE	Mogul Screw
G-AM3271P-MT	WATTS	320
	LUMENS	33,000
	BULB	E-37 Clear
	LIGHT CENTER LGTH.	7"
	BASE	Mogul Screw
G-AM671P-MT	WATTS	250
	LUMENS	25,000
	BULB	E-28 Clear
	LIGHT CENTER LGTH.	5"
	BASE	Mogul Screw
G-AM2071P-MT	WATTS	200
	LUMENS	21,000
	BULB	E-28 Clear
	LIGHT CENTER LGTH.	5"
	BASE	Mogul Screw
Mercury Vapor		
G-AM771M-MT	WATTS	400
	LUMENS	22,000
	BULB	E-37 Deluxe White
	LIGHT CENTER LGTH.	7"
	BASE	Mogul Screw
G-AM671M-MT	WATTS	250
	LUMENS	12,100
	BULB	E-28 Deluxe White
	LIGHT CENTER LGTH.	5"
	BASE	Mogul Screw



Photometric Data typical for all voltages.

*Photometric charts available on request.