

**SPECIFICATION FEATURES**

- Optical System:** Patented field adjustable multi-focal optical system adaptable to a broad range of lighting applications. Reflectors are Injection Molded Prismatic Acrylic. Tool-less adjusting mechanism includes adjustment scale to assist in accurate field-adjustment.
- Housing:** Heavy gauge, die-cast aluminum. Removable top splice-compartment with cast aluminum hook. 3/4" K.O.'s top and sides.
- Ballast:** Constant Wattage Autotransformer. Copper-wound with laminated steel core. High Power factor with 4K ignitor. 100% factory tested after assembly.
- Source:** Pulse Start Metal Halide, for Vertical, Open-Rated operation, with internal Quartz shroud around arc-tube, coated envelope (lamp ordered separately).
- Socket:** Mogul Exclusionary Base (EX39). Porcelain, with "pink" glaze. Nickel-plated brass screwshell. Open rated, requiring extended-pin open-rated lamp.
- Finish:** White polyester powder coat
- Listing:** UL Listed, suitable for damp locations, 40° C ambient



NOTE: Assembled and shipped by a U.L. certified supplier. Made in USA

**ORDERING INFORMATION**

**Catalog number:**

<b>HBM</b>	<b>SPA22</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Type	Family	Wattage	Source	Voltage	Options

Type: HBM = High Bay Magnetic  
 Family: SPA22 = Standard Prismatic Acrylic 22" Ø

- 1** Wattage: 150 = 150 Watts  
 200 = 200 Watts  
 250 = 250 Watts  
 320 = 320 Watts  
 400 = 400 Watts
- 2** Source: PSM = Pulse Start Metal Halide  
 CMH = Ceramic Metal Halide

- 3** **Voltage:** MT = Multi-Tap (120, 208, 240, 277)  
 TT = Tri-Tap (120, 277, 347)  
 480 = 480 volt  
 277 = 277 volt Lag/Reactor ballast
- 4** **Options: Cord:**  
 CB3 = 3 ft. Black cord      CW3 = 3 ft. White cord  
 CB6 = 6 ft. Black cord      CW6 = 6 ft. White cord  
 CB8 = 8 ft. Black cord      CW8 = 8 ft. White cord

- Plugs** (Twist-lok caps)  
 P51 (NEMA L5-15P)      P71 (NEMA L7-15P)  
 P52 (NEMA L5-20P)      P72 (NEMA L7-20P)  
 P53 (NEMA L5-30P)      P73 (NEMA L7-30P)  
 P61 (NEMA L6-15P)      P81 (NEMA L8-15P)  
 P62 (NEMA L6-20P)      P82 (NEMA L8-20P)  
 P63 (NEMA L6-30P)      P83 (NEMA L8-30P)

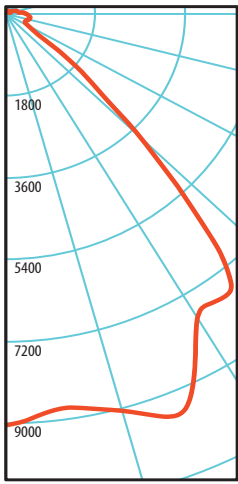
SF = Single Fuse (120, 277, 347 volt)  
 DF = Double Fuse (208, 240, 480 volt)  
 QRS = Quartz Restrike (wattage equal or less than HID)  
 Bi-Level Dimming - Consult Factory

**STINGRAY ENERGY SYSTEMS, LLC**

1550 Douglas Drive  
 Charleston, IL 61920

**Telephone: (847) 656-3557**  
 Facsimile : (217) 348-5391  
 Web site : www.stingrayenergy.com

**Accessories:** all field-installed please order separately  
 SCK = Safety Cable Kit



**Candela Values**

Angle	0
0	9037
5	8828
15	9030
25	8992
35	7628
45	3691
55	805
65	435
75	466
85	448
90	381
95	319
105	187
115	90
125	68
135	77
145	73
155	84
165	90
175	86
180	104

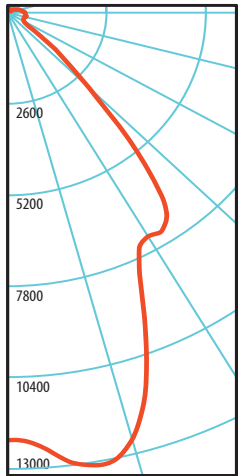
**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0° - 90°	17470.8	77.3	95.2
90° - 180°	874.4	3.9	4.8
0° - 180°	18345.2	81.2	100.0

#ITL57337  
Spacing Criteria= 1.3

**Coefficients of Utilization**

pf	10%											
	80%			50%			30%			10%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	87	87	87	83	83	83	81	81	81	78	78	78
1	80	77	75	76	74	73	74	72	71	71	70	69
2	73	69	66	69	67	64	67	65	63	65	63	62
3	67	62	59	64	60	57	62	59	56	60	57	55
4	61	56	52	58	54	51	57	53	50	55	52	50
5	56	51	47	54	49	46	52	48	45	51	47	45
6	52	46	42	50	45	42	48	44	41	47	43	41
7	48	42	38	46	41	38	45	40	37	43	40	37
8	44	39	35	42	38	34	41	37	34	40	37	34
9	41	36	32	39	35	31	39	34	31	38	34	31
10	38	33	29	37	32	29	36	32	29	35	31	28



**Candela Values**

Angle	0
0	12175
5	12536
15	12633
25	8220
35	7345
45	3024
55	684
65	440
75	476
85	456
90	447
95	419
105	284
115	145
125	86
135	86
145	93
155	99
165	138
175	109
180	138

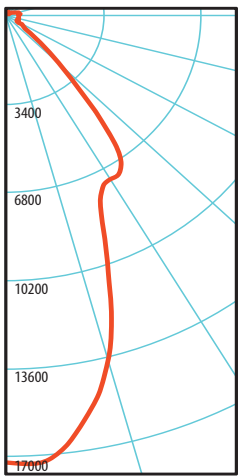
**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0° - 90°	17606.8	77.9	93.7
90° - 180°	1193.4	5.3	6.3
0° - 180°	18800.1	83.2	100.0

#ITL57336  
Spacing Criteria= 0.9

**Coefficients of Utilization**

pf	10%											
	80%			50%			30%			10%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	89	89	89	85	85	85	82	82	82	79	79	79
1	82	79	77	77	76	74	75	73	72	72	71	70
2	75	71	68	71	68	66	69	67	65	67	65	63
3	69	65	61	66	62	59	64	61	58	62	59	57
4	64	59	55	61	57	54	59	55	53	57	54	52
5	59	54	50	56	52	49	55	51	48	53	50	47
6	55	49	45	52	48	45	51	47	44	49	46	43
7	51	45	42	49	44	41	47	43	40	46	43	40
8	47	42	38	45	41	38	44	40	37	43	40	37
9	44	39	35	43	38	35	41	37	34	40	37	34
10	41	36	33	40	35	32	39	35	32	38	34	32



**Candela Values**

Angle	0
0	17229
5	17179
15	13731
25	7862
35	7047
45	2716
55	650
65	444
75	483
85	464
90	475
95	474
105	364
115	196
125	112
135	112
145	102
155	120
165	147
175	138
180	156

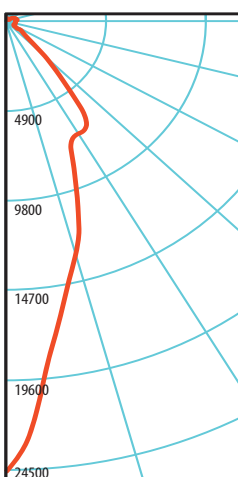
**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0° - 90°	17586.6	77.8	92.3
90° - 180°	1474.8	6.5	7.7
0° - 180°	19061.4	84.3	100

#ITL57335  
Spacing Criteria= 0.7

**Coefficients of Utilization**

pf	10%											
	80%			50%			30%			10%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	90	90	90	85	85	85	82	82	82	79	79	79
1	83	80	78	78	76	75	75	74	73	73	72	70
2	76	73	70	72	69	67	70	67	65	67	65	64
3	70	66	62	67	63	60	64	62	59	62	60	58
4	65	60	57	62	58	55	60	57	54	58	55	53
5	60	55	52	58	53	50	56	52	49	54	51	49
6	56	51	47	54	49	46	52	48	45	51	47	45
7	52	47	43	50	46	43	49	45	42	47	44	41
8	49	44	40	47	43	39	46	42	39	45	41	38
9	46	41	37	44	40	37	43	39	36	42	38	36
10	43	38	35	42	37	34	41	37	34	40	36	33



**Candela Values**

Angle	0
0	24652
5	20232
15	13115
25	7593
35	6918
45	2746
55	659
65	452
75	495
85	486
90	506
95	525
105	451
115	269
125	146
135	124
145	104
155	133
165	157
175	151
180	166

**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Fixture
0° - 90°	17562.4	77.7	91
90° - 180°	1730.9	7.7	9
0° - 180°	19293.3	85.4	100

#ITL57334  
Spacing Criteria= 0.5

**Coefficients of Utilization**

pf	10%											
	80%			50%			30%			10%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	91	91	91	86	86	86	82	82	82	79	79	79
1	83	81	79	78	77	75	75	74	73	73	71	70
2	77	73	70	72	70	67	70	67	65	67	65	64
3	71	66	63	67	64	61	65	62	59	62	60	58
4	66	61	57	62	58	55	60	57	54	58	55	53
5	61	56	52	58	54	50	56	52	49	54	51	49
6	57	51	48	54	50	46	52	48	46	51	47	45
7	53	48	44	50	46	43	49	45	42	48	44	41
8	50	44	41	47	43	40	46	42	39	45	41	39
9	46	41	38	45	40	37	43	39	36	42	39	36
10	44	39	35	42	38	35	41	37	34	40	36	34

Item : HBM SPA 150-400

Photometric Laboratory :  
**Independent Testing Laboratories, Inc.**  
Based upon 250 Watt Coated Pulse Start Metal Halide.

**150 Watt Electrical Data**

Voltage	Circuit	Watts	Amps
120	CWA	190	1.7
208	CWA	190	1
240	CWA	190	0.85
277	CWA	190	0.75
347	CWA	190	0.55
480	CWA	190	0.4
277R	Reactor	170	1.5

**200 Watt Electrical Data**

Voltage	Circuit	Watts	Amps
120	CWA	232	2
208	CWA	232	1.15
240	CWA	232	1
277	CWA	232	0.85
347	CWA	232	0.7
480	CWA	232	0.5
277R	Reactor	219	1.25

**250 Watt Electrical Data**

Voltage	Circuit	Watts	Amps
120	CWA	288	2.5
208	CWA	288	1.45
240	CWA	288	1.25
277	CWA	288	1.1
347	CWA	288	0.9
480	CWA	288	0.6
277R	Reactor	275	1.35

**320 Watt Electrical Data**

Voltage	Circuit	Watts	Amps
120	CWA	368	3.2
208	CWA	368	1.8
240	CWA	368	1.6
277	CWA	368	1.4
347	CWA	368	1.15
480	CWA	368	0.8
277R	Reactor	349	1.7

**400 Watt Electrical Data**

Voltage	Circuit	Watts	Amps
120	CWA	450	4
208	CWA	450	2.3
240	CWA	450	2
277	CWA	450	1.75
347	CWA	451	1.4
480	CWA	455	1
277R	Reactor	435	2.1

