

Mercmaster™ Jr. Luminaires

High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

<p>NEC: With Globe: 35 W, 50 W: Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ②, F, G Class III</p>	<p>NEC: 70 W: ① Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ②, F 100 W, 150 W: ① Class I, Division 2, Groups A, B, C, D</p>	<p>NEC: With Refractor (NEMA V): 35 W, 50 W, 70 W, 100 W: Class I, Division 2, Groups A, B, C, D Class II, Division 1 and 2, Groups E ②, F, G Class III</p>	<p>NEC: 150 W: ① Class I, Division 2, Groups A, B, C, D</p>
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With Globe	With 8" Refractor	Description	Lamp Watts	ANSI Lamp Type	Catalog Number	
					With Globe ③	With 8" Refractor
Outlet Box Fixture						
		Aluminum ballast housing, complete with aluminum mounting hood. Epoxy clad.	35	S76	MOB35-120	MOB35J-120
			50	S68	MOB50-120	MOB50J-120
		Use with SEH and 3-1/4" or 4" Octagonal Outlet Box. Fixture furnished with mounting plate and gasket. Octagonal boxes not suitable for classified locations.	70	S62	MOB70-120	MOB70J-120
			100	S54	MOB10-120	MOB10J-120
			150	S55	MOB15-120	MOB15J-120

	Lamp Watts	ANSI Lamp Type	Catalog Number
Fixture Units			
	S76	35	MUL35-120
	S68	50	MUL50-120
	S62	70	MUL70-120
	S54	100	MUL100-120
	S55	150	MUL150-120

Ballast Bodies			
	S76	35	MBL35-120
	S68	50	MBL50-120
	S62	70	MBL70-120
	S54	100	MBL100-120
	S55	150	MBL150-120

① Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.
 ② The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.
 ③ Order JBX or GSU box on following page.

Code•Master™ 2 HID Factory Sealed Luminaires

Explosionproof, Dust-Ignitionproof

* Photometric data is based on a 100-watt clear HPS lamp (9,500 lumens). For candlepower values of fixtures with other lamps, use the following multipliers: 50 W HPS – 0.42 (4,000 lumens); 70 W HPS – 0.61 (6,300 lumens); and 150 W HPS – 1.68 (16,000 lumens).

NEC:
 Class I, Division 1 and 2, Groups C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 Marine Type Electric Fixtures
 Outside Type (Salt Water)

CEC:
 Class I, Division 1 and 2, Groups B, C, D
 Class I, Zone 1 and 2; IIB, IIA
 Class II, Division 1, Groups E, F, G
 Class II, Division 2, Groups F, G
 Class III

CEC:
 CSA Type 4X
 Exd IIB, Zone 1

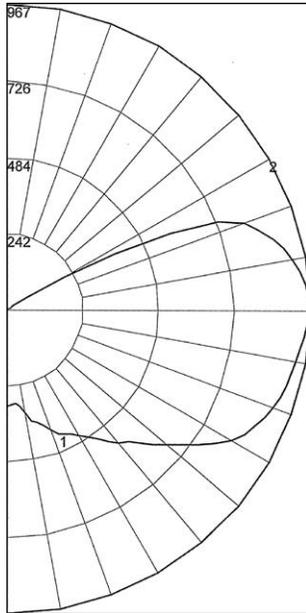
Photometric Data

Total Luminaire Efficiency = 76.4%

CIE Type – Semi-Direct

Plane	Spacing Criteria
0-180	2.66
90-270	2.66
Diagonal	2.84

Zone	Lumens
0-10	29.80
10-20	106.54
20-30	202.92
30-40	318.52
40-50	468.31
50-60	670.49
60-70	866.67
70-80	976.61
80-90	1038.41
90-100	1042.18
100-110	927.00
110-120	551.82
120-130	51.82
130-140	2.51
140-150	0.25
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: **CL10G**

Lamps: 100 W High Pressure Sodium with Globe only

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls	Rw	80				70				50				30				10				0
			70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
0			84	84	84	84	79	79	79	79	70	70	70	61	61	61	53	53	53	49			
1			72	66	61	56	66	61	57	52	53	49	46	45	42	40	38	36	34	30			
2			63	54	47	41	58	51	44	39	43	38	34	37	32	29	30	27	24	21			
3			56	46	38	32	52	43	36	30	36	31	26	31	26	22	25	22	18	15			
4			51	40	32	26	47	37	30	24	31	25	21	26	22	18	22	18	14	12			
5			46	35	27	21	42	32	25	20	28	22	17	23	18	14	19	15	12	9			
6			42	31	23	18	39	29	22	17	24	19	14	21	16	12	17	13	10	7			
7			39	28	20	15	36	26	19	14	22	16	12	18	14	10	15	11	8	6			
8			36	25	18	13	33	23	17	12	20	14	10	17	12	9	14	10	7	5			
9			33	23	16	11	31	21	15	11	18	13	9	15	11	8	13	9	6	4			
10			31	21	14	10	29	19	13	9	17	12	8	14	10	7	12	8	6	4			

Zonal Lumen Summary

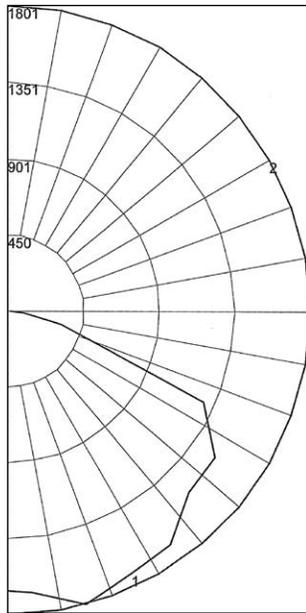
Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	339.26	3.6	4.7	90-120	2521.83	26.5	34.8
0-40	657.79	6.9	9.1	90-130	2572.83	27.1	35.5
0-60	1796.59	18.9	24.8	90-150	2575.59	27.1	35.5
0-90	4678.28	49.2	64.5	90-180	2575.59	27.1	35.5
				0-180	7253.87	76.4	100.0

Total Luminaire Efficiency = 71.3%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.54
90-270	1.54
Diagonal	1.66

Zone	Lumens
0-10	40.00
10-20	331.02
20-30	660.22
30-40	934.51
40-50	1131.33
50-60	1272.76
60-70	1322.68
70-80	826.95
80-90	254.44
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: **CL10ST**

Lamps: 100 W High Pressure Sodium with Standard Dome Reflector

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls	Rw	80				70				50				30				10				0
			70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
0			85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71			
1			76	71	68	64	74	70	66	63	67	64	61	64	61	59	61	59	57	56			
2			67	60	54	49	65	59	53	49	56	51	47	54	50	46	51	48	45	43			
3			60	51	44	39	58	50	44	38	48	42	38	46	41	37	44	40	36	34			
4			54	44	37	31	52	43	36	31	41	35	31	40	34	30	38	33	30	28			
5			49	39	31	26	48	38	31	26	36	30	25	35	29	25	33	29	25	23			
6			45	34	27	22	43	33	27	22	32	26	21	31	25	21	30	25	21	19			
7			41	30	23	19	40	30	23	18	29	23	18	28	22	18	27	22	18	16			
8			38	27	21	16	37	27	20	16	26	20	16	25	20	16	24	19	16	14			
9			35	25	18	14	34	24	18	14	24	18	14	23	18	14	22	17	14	12			
10			33	23	17	12	32	22	16	12	22	16	12	21	16	12	20	15	12	11			

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	1031.23	10.9	15.2	90-120	0.00	0.0	0.0
0-40	1965.74	20.7	29.0	90-130	0.00	0.0	0.0
0-60	4369.83	46.0	64.5	90-150	0.00	0.0	0.0
0-90	6773.90	71.3	100.0	90-180	0.00	0.0	0.0
				0-180	6773.90	71.3	100.0