

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CD223 (HB80-454-HO-T5-ELB-UNI).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LSC D223
[TESTLAB] Lighting Sciences
[ISSUEDATE] 05-16-2008
[MANUFAC] MERCURY LIGHTING PRODUCTS CO. INC.
[MORE] FAIRFIELD, NJ USA
[LUMCAT] HB80-454-HO-T5-ELB-UNI
[LUMINAIRE] MERCURY 4' FLUORESCENT LUMINAIRE
[MORE] WITH SPECULAR REFLECTORS
[LAMP] FOUR 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
[BALLAST] ONE ADVANCE 120-277V 1 TO 4-LAMP ELECTRONIC BALLAST
[BALLASTCAT] ICN-4S54-90C-2LS-G

CHARACTERISTICS

Total Rated Lamp Lumens	17800 (4 lamps)
Total Luminaire Efficiency	85.2 %
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	225
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.86
Spacing Criteria (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.03 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20424	11550	9236
55	19022	8819	6953
65	16503	6300	4824
75	12404	3298	938
85	2066	0	329

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	8485	8485	8485	8485	8485
2.5	8520	8460	8409	8384	8374
5.0	8502	8413	8245	8118	8055
7.5	8445	8281	8007	7807	7719
10.0	8380	8135	7728	7503	7400
12.5	8286	7925	7477	7247	7151
15.0	8178	7702	7213	6966	6837
17.5	8075	7479	6975	6662	6489
20.0	7923	7227	6696	6284	6040
22.5	7756	6985	6391	5819	5552
25.0	7583	6713	6062	5374	5171
27.5	7378	6449	5655	5004	4762
30.0	7162	6191	5251	4628	4338
32.5	6942	5911	4844	4192	4004
35.0	6681	5625	4496	3870	3743
37.5	6417	5290	4118	3596	3444
40.0	6129	4960	3718	3329	3182
42.5	5835	4586	3385	3033	2870
45.0	5533	4193	3129	2735	2502
47.5	5205	3782	2861	2388	2139
50.0	4874	3407	2547	2018	1889
52.5	4530	3056	2283	1788	1693
55.0	4180	2685	1938	1623	1528
57.5	3810	2343	1613	1433	1341
60.0	3444	1991	1370	1216	1138
62.5	3060	1748	1195	1042	962
65.0	2672	1460	1020	867	781
67.5	2311	1223	835	689	609
70.0	1949	931	671	517	451
72.5	1572	683	491	356	289
75.0	1230	519	327	182	93
77.5	878	340	177	50	41
80.0	587	203	49	19	9
82.5	298	60	6	3	22
85.0	69	0	0	11	11
87.5	0	0	0	0	0
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5657.77	31.8	37.3
0-40	8657.52	48.6	57.1
0-60	13393.08	75.2	88.4
0-90	15157.58	85.2	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	15157.58	85.2	100

Total Luminaire Efficiency = 85.2%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	774.18
10-20	2065.03
20-30	2818.56
30-40	2999.75
40-50	2703.41
50-60	2032.15
60-70	1258.1
70-80	468.08
80-90	38.31
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

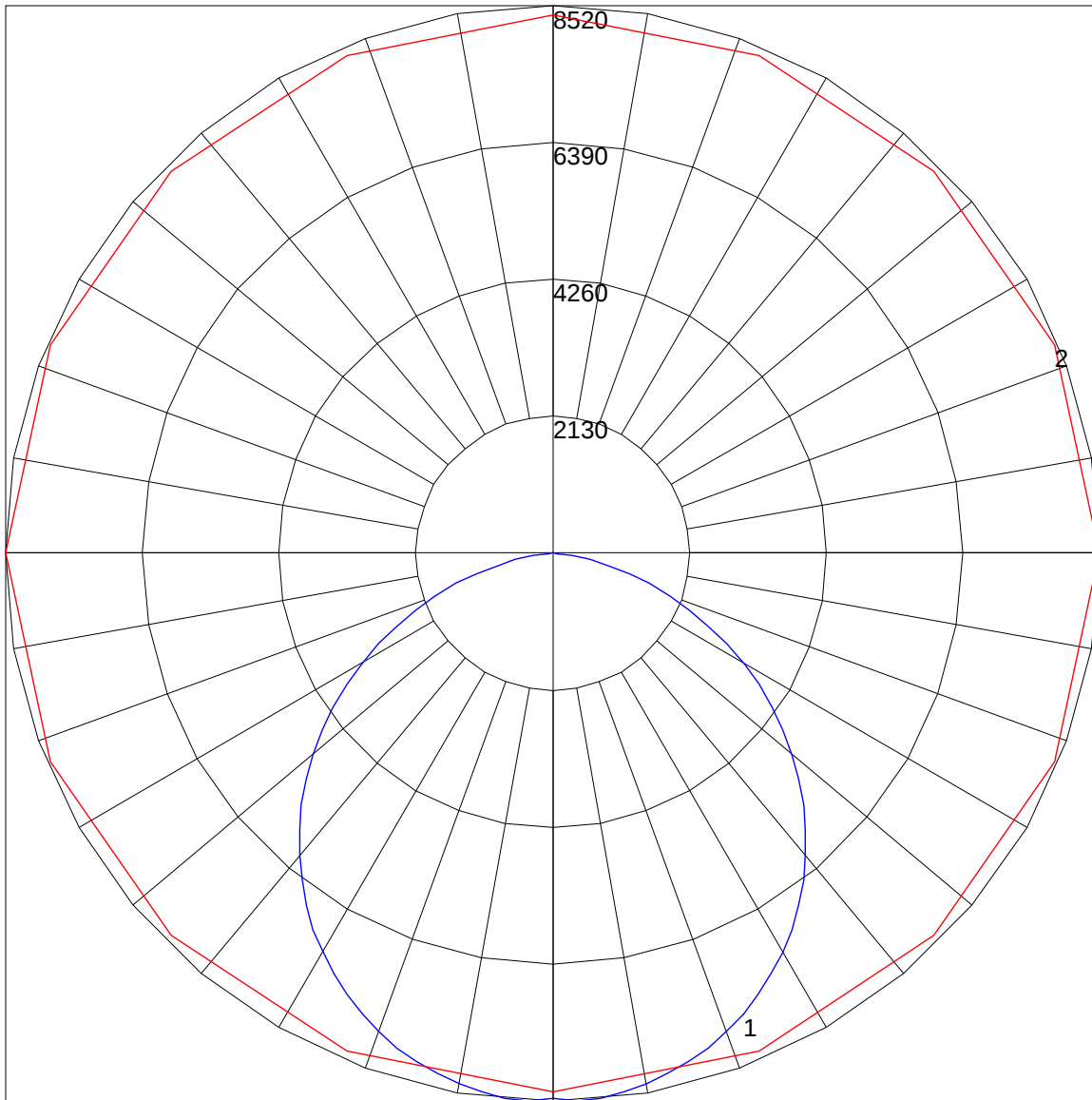
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	101	101	101	101	99	99	99	99	95	95	95	91	91	91	87	87	87	85
1	94	91	88	85	92	89	86	84	85	83	81	82	80	79	79	78	76	75
2	87	81	76	72	85	79	75	71	77	73	69	74	71	68	71	69	66	65
3	80	72	66	62	78	71	66	61	69	64	60	66	62	59	64	61	58	56
4	74	65	58	53	72	64	58	53	62	57	52	60	55	52	58	54	51	49
5	69	59	52	47	67	58	52	47	56	51	46	55	50	46	53	49	45	44
6	64	54	47	42	62	53	46	42	51	46	41	50	45	41	49	44	41	39
7	60	49	42	37	58	48	42	37	47	41	37	46	41	37	45	40	37	35
8	56	45	38	34	54	45	38	34	43	38	34	42	37	33	41	37	33	32
9	52	42	35	31	51	41	35	31	40	35	31	39	34	30	39	34	30	29
10	49	39	32	28	48	38	32	28	37	32	28	37	32	28	36	31	28	26

POLAR GRAPH



Maximum Candela = 8520 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)