IES INDOOR REPORT
PHOTOMETRIC FILENAME : CD224 (HB80-654-HO-T5-ELB-UNI).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LSC D224
[TESTLAB] Lighting Sciences
[ISSUEDATE] 05-16-2008
[MANUFAC] MERCURY LIGHTING PRODUCTS CO. INC.
[MORE] FAIRFIELD, NJ USA
[LUMCAT] HB80-654-HO-T5-ELB-UNI
[LUMINAIRE] MERCURY 4' FLUORESCENT LUMINAIRE
[MORE] WITH SPECULAR REFLECTORS
[LAMP] SIX 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
[BALLAST] ONE ADVANCE 120-277V 1 TO 4-LAMP ELECTRONIC BALLAST
[MORE] ONE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST
[BALLASTCAT] ICN-4S54-90C-2LS-G
[MORE] ICN-2S54-90C

CHARACTERISTICS

Total Rated Lamp Lumens	26700 (6 lamps)
Total Luminaire Efficiency	80.9 %
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	321
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.86
Spacing Criteria (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.55 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19408	10580	8897
55	18162	8313	7191
65	16027	6251	4831
75	12297	2969	932
85	2726	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	12150	12150	12150	12150	12150
2.5	12122	12131	12072	12002	12048
5.0	12100	12052	11832	11648	11643
7.5	12024	11892	11502	11206	11155
10.0	11931	11686	11106	10744	10693
12.5	11787	11412	10736	10339	10279
15.0	11639	11089	10324	9909	9808
17.5	11474	10753	9955	9424	9252
20.0	11274	10384	9535	8830	8582
22.5	11046	10030	9061	8182	7920
25.0	10792	9647	8543	7559	7325
27.5	10500	9252	7961	6989	6738
30.0	10220	8867	7402	6475	6193
32.5	9876	8453	6804	5891	5648
35.0	9519	8018	6285	5383	5233
37.5	9149	7518	5737	4967	4884
40.0	8751	7002	5230	4631	4510
42.5	8337	6441	4724	4249	4110
45.0	7912	5906	4313	3853	3627
47.5	7461	5341	3977	3399	3145
50.0	6988	4787	3598	2918	2875
52.5	6520	4290	3227	2716	2674
55.0	6006	3763	2749	2531	2378
57.5	5512	3282	2340	2196	2056
60.0	4973	2796	2090	1821	1737
62.5	4441	2438	1851	1523	1446
65.0	3905	2066	1523	1244	1177
67.5	3386	1720	1232	971	883
70.0	2868	1333	974	697	617
72.5	2330	1038	697	423	342
75.0	1835	800	443	194	139
77.5	1331	518	191	48	29
80.0	885	293	35	0	1
82.5	455	83	0	0	0
85.0	137	0	0	0	0
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	8062.3	30.2	37.3
0-40	12296.94	46.1	56.9
0-60	19067.21	71.4	88.2
0-90	21611.24	80.9	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	21611.24	80.9	100

Total Luminaire Efficiency = 80.9%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1110.6
10-20	2951.18
20-30	4000.52
30-40	4234.64
40-50	3822.24
50-60	2948.02
60-70	1827.35
70-80	664.8
80-90	51.88
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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	83	83	83	81
1	90	86	84	81	87	85	82	80	81	79	77	78	76	75	75	74	73	71
2	83	77	72	68	81	75	71	67	73	69	66	70	67	64	68	65	63	61
3	76	69	63	58	74	68	62	58	65	61	57	63	59	56	61	58	55	53
4	70	62	56	51	69	61	55	50	59	54	50	57	53	49	55	52	48	47
5	65	56	49	45	64	55	49	44	53	48	44	52	47	43	50	46	43	41
6	61	51	44	40	59	50	44	39	49	43	39	47	43	39	46	42	38	37
7	57	47	40	36	55	46	40	35	45	39	35	44	39	35	43	38	35	33
8	53	43	36	32	52	42	36	32	41	36	32	40	35	32	39	35	31	30
9	50	40	33	29	49	39	33	29	38	33	29	37	32	29	37	32	29	27
10	47	37	31	27	46	36	31	27	36	30	27	35	30	27	34	30	26	25

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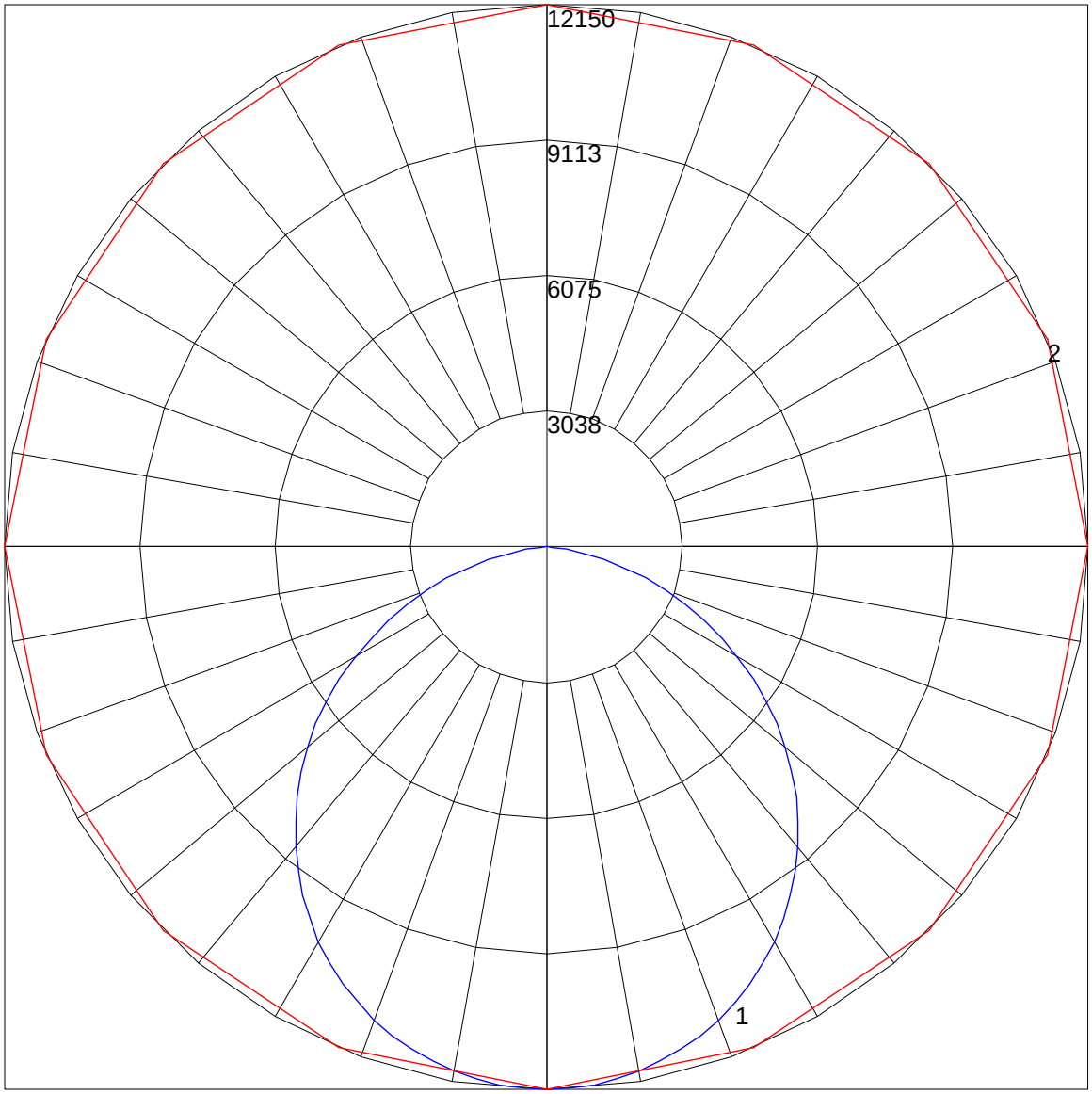
POLAR GRAPH



Maximum Candela = 12150 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)