



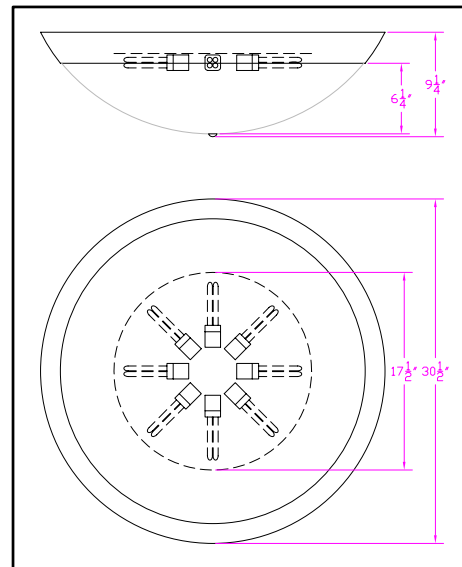
**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LLI080811A.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LLI 0808-11A  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUE DATE] 9/24/2008  
[MANUFAC] CRYSTAL LIGHTING CORP.  
[LUMCAT] LG-CLH-4013-813Q  
[LUMINAIRE] 30"DIA. X 9-1/4"H. PENDANT LUMINAIRE  
[MORE] WHITE REFLECTOR WITH 8 LAMPS  
[MORE] WHITE DIFFUSED DROP LENS  
[BALLASTCAT] FULHAM NPY-120-213CFL  
[BALLAST] 120V 50/60Hz ELECTRONIC  
[LAMPPOSITION] 90,90  
[LAMPCAT] SYLVANIA CF13DD/E/841  
[\_LAMPLUM] 900  
[\_INPUT] 120VAC, 106.4W

**CHARACTERISTICS**

Total Rated Lamp Lumens	7200 (8 lamps)
Total Luminaire Efficiency	54.6 %
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	106
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.28
Spacing Criteria (Diagonal)	1.40
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	2.50 ft (Diameter)
Luminous Height	0.75 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1166	1166	1166
55	1033	1033	1033
65	900	900	900
75	778	778	778
85	675	675	675

CANDELA TABULATION

	<u>0</u>
0	757
5	761
15	738
25	684
35	613
45	520
55	418
65	316
75	223
85	144
90	111
95	86
105	82
115	181
125	250
135	330
145	401
155	441
165	433
175	393
180	368

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	427.03	5.9	10.9
0-40	782.15	10.9	19.9
0-60	1574.46	21.9	40
0-90	2467.67	34.3	62.7
90-120	279.88	3.9	7.1
90-130	484.28	6.7	12.3
90-150	984.9	13.7	25
90-180	1466.79	20.4	37.3
0-180	3934.45	54.6	100

Total Luminaire Efficiency = 54.6%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	18.15
10-20	142.54
20-30	266.33
30-40	355.13
40-50	398.82
50-60	393.49
60-70	348.1
70-80	277.36
80-90	267.74
90-100	53.94
100-110	90.6
110-120	135.34
120-130	204.4
130-140	243.31
140-150	257.31
150-160	230.55
160-170	163.7
170-180	87.64

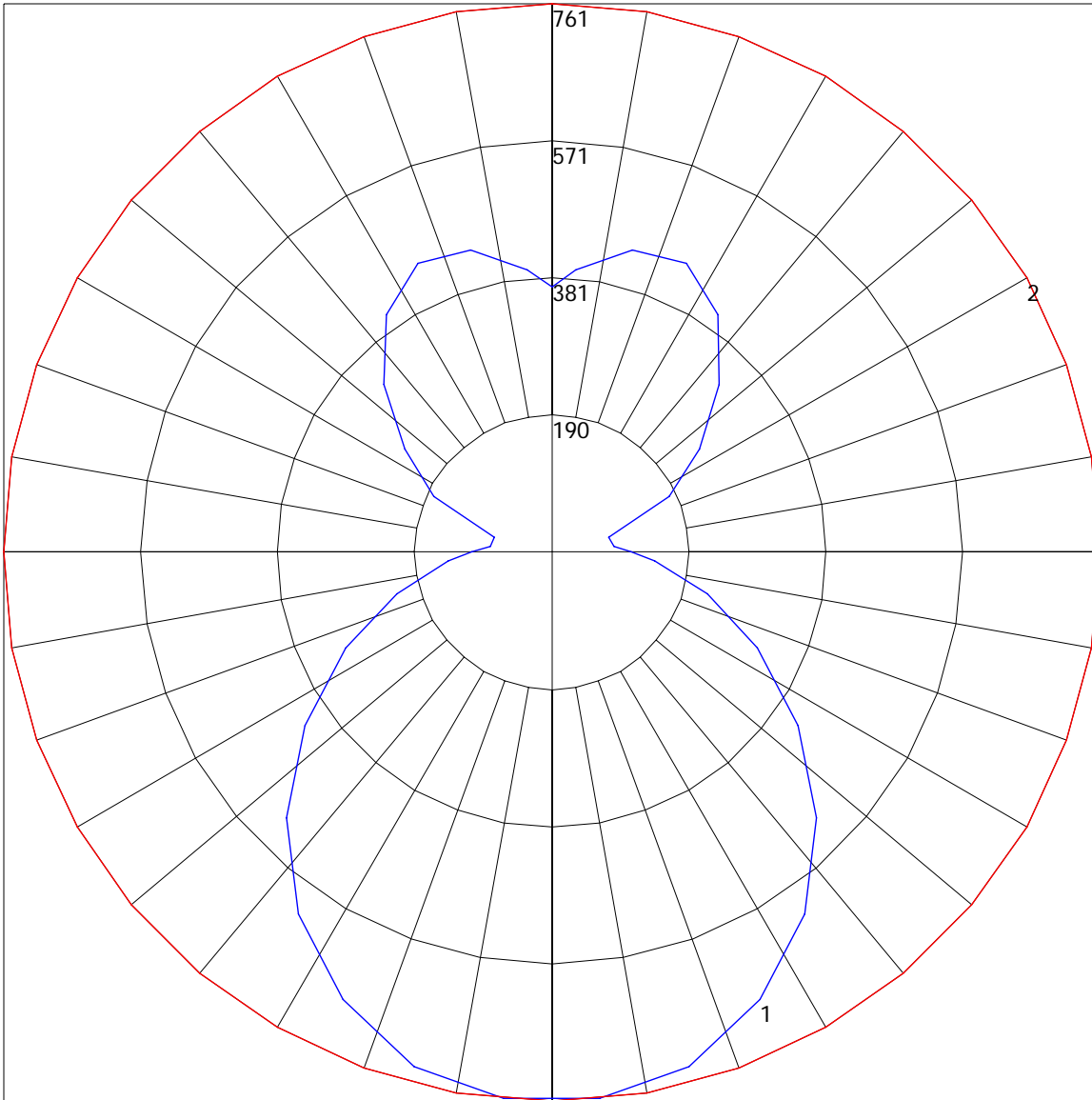
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	60	60	60	60	56	56	56	56	49	49	49	43	43	43	37	37	37	34
1	53	50	47	45	50	47	44	42	41	39	37	35	34	32	30	29	28	25
2	48	43	39	35	45	40	36	33	35	32	30	30	28	26	26	24	22	20
3	43	37	32	29	40	35	31	27	30	27	24	26	23	21	22	20	18	16
4	39	33	28	24	36	30	26	22	26	23	20	23	20	18	19	17	15	13
5	36	29	24	20	33	27	22	19	23	20	17	20	17	15	17	15	13	11
6	33	26	21	17	31	24	19	16	21	17	14	18	15	13	15	13	11	10
7	30	23	18	15	28	22	17	14	19	15	13	16	13	11	14	12	10	8
8	28	21	16	13	26	19	15	12	17	13	11	15	12	10	13	10	8	7
9	26	19	14	11	24	18	14	11	16	12	10	14	11	9	12	9	7	6
10	24	17	13	10	23	16	12	10	14	11	9	12	10	8	11	8	7	6

POLAR GRAPH



Maximum Candela = 761 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.) : RED

NOTE: ALL TESTS ASSUME BALLAST FACTOR (BF) = 1.0 UNLESS STATED.  
IF TEST OR OTHER BALLAST USED HAS A BF OTHER THAN 1.0, ALL  
LUMEN, CANDELA, AND LUMINANCE VALUES SHOULD BE MULTIPLIED BY  
THE BF, CU, EFFICIENCY AND % FLUX VALUES REMAIN AS LISTED.  
TOTAL WATTS VALUE APPLIES ONLY TO TESTED BALLAST.