



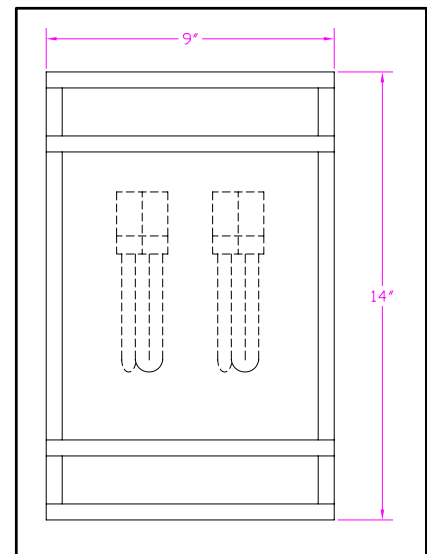
**IES INDOOR REPORT
PHOTOMETRIC FILENAME : LLI080811D.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI 0808-11D
[TESTLAB] LIGHT LABORATORY INC
[ISSUEDATE] 9/24/2008
[MANUFAC] CRYSTAL LIGHTING CORP.
[LUMCAT] CL-15-213Q
[LUMINAIRE] 9"L. X 4"D. X 14"H. WALL SCONCE
[MORE] WHITE REFLECTOR
[MORE] WHITE DIFFUSED LENS
[BALLASTCAT] FULHAM NPY-120-213CFL
[BALLAST] 120V 50/60Hz ELECTRONIC
[LAMPPOSITION] 0,0
[LAMPCAT] SYLVANIA CF13DD/E/841
[_LAMPLUM] 900
[_INPUT] 120VAC, 28.24W

CHARACTERISTICS

Total Rated Lamp Lumens	1800 (2 lamps)
Total Luminaire Efficiency	66 %
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criteria (0-180)	N.A.
Spacing Criteria (90-270)	N.A.
Spacing Criteria (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	1.17 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2582	2106	2616
55	2636	2030	2065
65	2713	2035	1964
75	2843	2099	1993
85	3001	2218	2118

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0	75	75	75	75	75	75	75	75	75	75
5	124	123	121	118	114	108	103	98	95	92
15	217	217	215	212	205	194	182	167	152	146
25	190	191	193	196	199	198	200	200	185	173
35	175	175	173	171	170	170	172	177	175	162
45	191	190	186	179	169	158	147	136	124	110
55	211	210	204	193	180	165	147	130	112	94
65	227	226	219	207	192	173	154	133	112	92
75	241	240	232	219	201	181	159	137	114	92
85	250	249	241	227	209	188	164	140	115	91
90	251	250	242	228	210	188	164	140	115	91
95	250	249	241	226	208	187	164	139	115	90
105	240	239	231	217	200	179	157	134	110	87
115	220	219	212	199	184	165	145	123	102	81
125	194	193	187	176	163	146	129	110	92	74
135	165	164	159	150	139	126	112	97	83	70
145	130	129	126	120	113	104	94	87	77	70
155	99	98	98	97	95	91	88	91	91	76
165	72	72	72	73	70	66	63	61	56	51
175	15	15	15	15	15	14	15	15	16	17
180	11	11	11	11	11	11	11	11	11	11

Vert. Angles **Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0	75	75	75	75	75	75	75	75	75	75
5	90	88	83	77	70	65	61	58	57	56
15	143	136	111	92	88	94	94	88	82	77
25	168	153	109	94	96	95	90	76	64	60
35	159	143	100	82	73	63	60	55	51	50
45	109	100	78	60	47	37	34	33	32	32
55	88	80	62	52	32	21	20	19	18	18
65	83	74	55	45	21	14	12	12	12	12
75	81	71	52	41	16	8	7	7	7	7
85	80	69	56	32	12	4	2	2	2	2
90	79	68	56	26	16	4	2	2	2	2
95	79	68	56	25	16	3	2	2	2	2
105	76	66	54	25	16	4	2	2	2	2
115	71	62	51	24	15	5	3	3	3	3
125	65	57	47	24	16	6	5	4	4	4
135	63	57	49	33	19	15	13	13	13	13
145	67	63	52	46	27	23	22	23	26	27
155	70	64	57	50	43	38	37	34	32	31
165	49	48	47	48	49	53	53	46	38	34
175	18	18	20	21	23	24	26	27	28	29
180	11	11	11	11	11	11	11	11	11	11

Vert. Angles **Horizontal Angles**

	<u>180</u>
0	75
5	56
15	77
25	60

CANDELA TABULATION - (Cont.)

35	50
45	32
55	18
65	12
75	7
85	2
90	2
95	2
105	2
115	3
125	4
135	13
145	27
155	32
165	34
175	29
180	11

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	77.17	4.3	6.5
0-40	150.18	8.3	12.6
0-60	314.14	17.5	26.4
0-90	671.31	37.3	56.5
90-120	255.4	14.2	21.5
90-130	335.39	18.6	28.2
90-150	449.71	25	37.8
90-180	517.36	28.7	43.5
0-180	1188.67	66	100

Total Luminaire Efficiency = 66%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.95
10-20	21.87
20-30	53.35
30-40	73.01
40-50	79.78
50-60	84.18
60-70	92.82
70-80	101.67
80-90	162.68
90-100	54.78
100-110	105.53
110-120	95.08
120-130	79.99
130-140	64.37
140-150	49.95
150-160	37.13
160-170	23.01
170-180	7.51

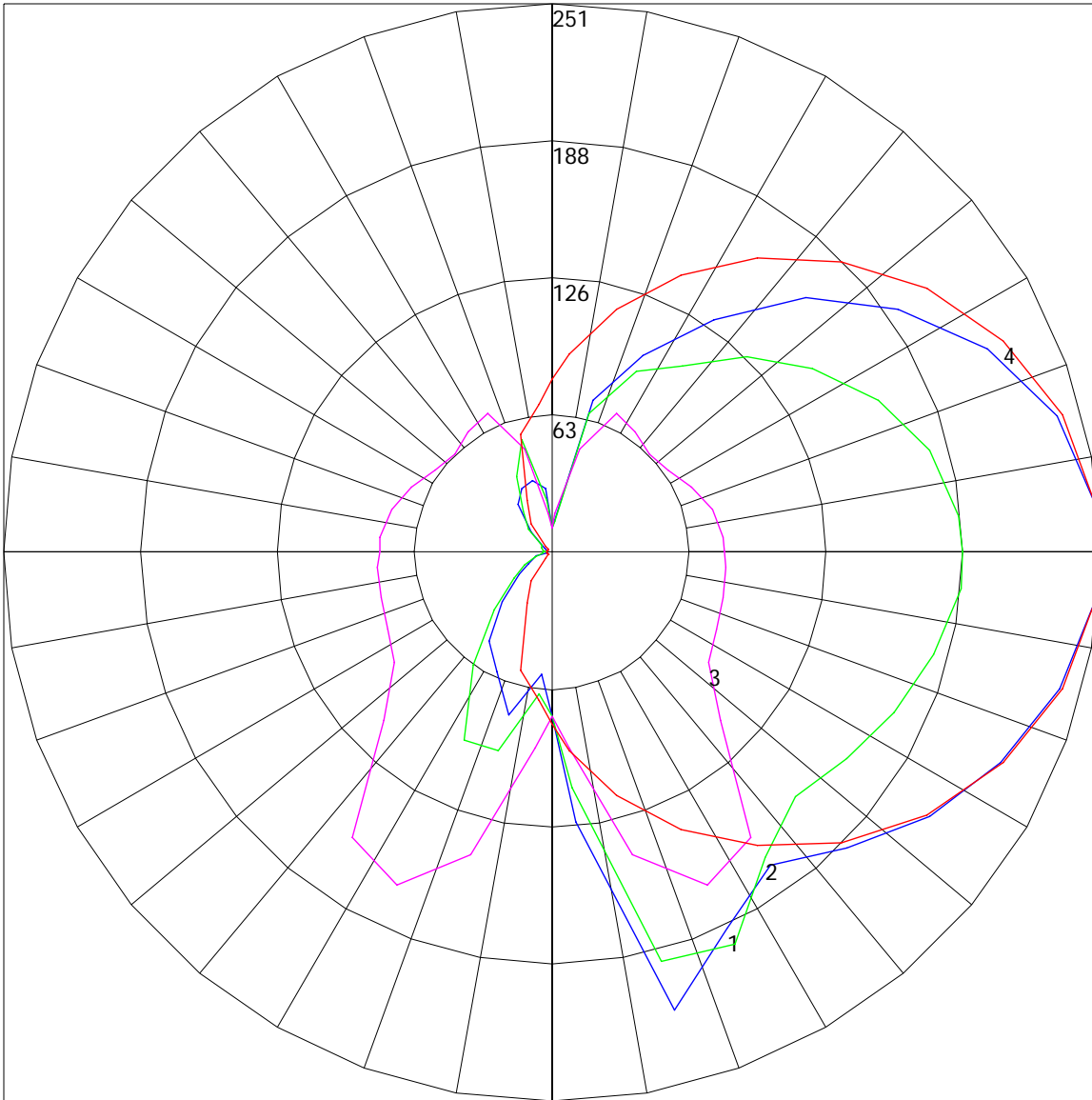
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	72	72	72	72	67	67	67	67	57	57	57	49	49	49	41	41	41	37
1	62	57	53	49	57	53	49	46	44	42	39	37	35	33	30	28	27	23
2	55	48	43	38	50	44	39	35	37	33	30	31	28	25	25	22	20	17
3	49	41	35	30	45	38	33	28	32	28	24	26	23	20	21	18	16	13
4	45	36	30	25	41	33	28	23	28	23	20	23	19	16	18	16	13	11
5	41	32	26	21	37	29	24	19	25	20	17	20	17	14	16	13	11	9
6	38	28	22	18	34	26	21	16	22	18	14	18	15	12	15	12	9	7
7	35	25	19	15	32	23	18	14	20	15	12	16	13	10	13	10	8	6
8	32	23	17	13	29	21	16	12	18	14	11	15	11	9	12	9	7	5
9	30	21	15	12	27	19	14	11	16	12	9	14	10	8	11	8	6	5
10	28	19	14	10	25	18	13	10	15	11	8	13	9	7	10	7	6	4

POLAR GRAPH



Maximum Candela = 251 Located At Horizontal Angle = 0, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE
2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN
3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA
4 - Horizontal Cone Through Vertical Angle (90) (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.