



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LLI080811E.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LLI 0808-11E  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUEDATE] 9/24/2008  
[MANUFAC] CRYSTAL LIGHTING CORP.  
[LUMCAT] CLW-1025  
[LUMINAIRE] 8-3/4"L. X 4"D. X 12"H. WALL SCONCE  
[MORE] WHITE REFLECTOR  
[MORE] WHITE DIFFUSED LENS  
[BALLASTCAT] ADVANCE ICF-2S26-H1-LD  
[BALLAST] 120 TO 277V 50/60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] GE F26DBXT4/SPX27/4P  
[\_LAMPLUM] 1710  
[\_INPUT] 120VAC, 57.15W

**CHARACTERISTICS**

Total Rated Lamp Lumens	3420 (2 lamps)
Total Luminaire Efficiency	83.4 %
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	57
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	3.16
Spacing Criteria (90-270)	2.82
Spacing Criteria (Diagonal)	2.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.71 ft
Luminous Height	1.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7682	7654	11454
55	6699	5999	9194
65	6329	5156	7023
75	6224	4868	5839
85	6236	4613	5575

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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>
<b>0</b>	137	137	137	137	137	137	137	137	137	137
<b>5</b>	222	224	223	221	216	209	200	191	184	182
<b>15</b>	469	472	478	479	474	461	438	403	357	329
<b>25</b>	542	547	554	561	569	575	569	545	492	431
<b>35</b>	519	522	527	536	552	571	591	602	572	487
<b>45</b>	477	474	472	472	477	488	503	521	519	455
<b>55</b>	446	445	437	426	416	411	409	411	410	372
<b>65</b>	437	438	427	408	388	367	346	318	305	277
<b>75</b>	432	431	419	398	375	349	310	291	260	224
<b>85</b>	422	422	409	387	361	323	304	273	240	201
<b>90</b>	427	426	413	391	363	335	292	271	236	196
<b>95</b>	427	426	412	390	362	334	290	269	235	196
<b>105</b>	411	410	397	375	350	312	293	262	229	192
<b>115</b>	386	384	373	353	321	305	278	250	219	185
<b>125</b>	345	346	335	318	298	277	253	229	203	174
<b>135</b>	299	299	291	277	262	246	228	211	193	172
<b>145</b>	246	246	241	234	229	226	223	221	217	193
<b>155</b>	206	207	207	212	225	246	258	250	217	175
<b>165</b>	174	175	179	183	179	167	155	143	126	116
<b>175</b>	39	39	40	40	42	44	46	47	48	50
<b>180</b>	26	26	26	26	26	26	26	26	26	26

**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>
<b>0</b>	137	137	137	137	137	137	137	137	137	137
<b>5</b>	179	177	170	163	156	151	147	143	141	140
<b>15</b>	322	298	282	262	240	233	228	223	220	219
<b>25</b>	416	390	341	289	284	274	261	245	241	240
<b>35</b>	460	422	337	286	277	264	244	226	218	214
<b>45</b>	425	386	279	253	235	213	193	182	177	174
<b>55</b>	346	283	240	202	178	155	136	127	123	121
<b>65</b>	260	238	191	154	125	101	85	80	80	79
<b>75</b>	206	187	148	112	84	63	49	46	46	46
<b>85</b>	181	161	121	84	66	28	18	15	15	15
<b>90</b>	176	156	114	76	57	17	9	6	6	6
<b>95</b>	175	156	115	77	59	20	11	8	8	8
<b>105</b>	173	155	117	82	65	33	18	16	17	16
<b>115</b>	168	151	117	84	68	38	24	23	22	23
<b>125</b>	160	146	115	87	64	53	34	29	29	29
<b>135</b>	163	152	123	95	75	58	47	46	47	48
<b>145</b>	179	169	139	111	95	80	68	70	73	74
<b>155</b>	163	160	146	130	121	109	95	88	81	77
<b>165</b>	115	117	123	125	128	127	110	95	89	87
<b>175</b>	51	52	55	56	58	59	60	61	63	64
<b>180</b>	26	26	26	26	26	26	26	26	26	26

**Vert. Angles**      **Horizontal Angles**

	<u>180</u>
<b>0</b>	137
<b>5</b>	140
<b>15</b>	219
<b>25</b>	240

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**CANDELA TABULATION - (Cont.)**

<b>35</b>	213
<b>45</b>	174
<b>55</b>	121
<b>65</b>	79
<b>75</b>	46
<b>85</b>	15
<b>90</b>	6
<b>95</b>	8
<b>105</b>	17
<b>115</b>	23
<b>125</b>	30
<b>135</b>	48
<b>145</b>	74
<b>155</b>	76
<b>165</b>	87
<b>175</b>	64
<b>180</b>	26

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	193.68	5.7	6.8
0-40	419.71	12.3	14.7
0-60	966.75	28.3	33.9
0-90	1780.39	52.1	62.4
90-120	491.28	14.4	17.2
90-130	655.62	19.2	23
90-150	905.88	26.5	31.8
90-180	1070.82	31.3	37.6
0-180	2851.2	83.4	100

Total Luminaire Efficiency = 83.4%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.79
10-20	49.33
20-30	140.57
30-40	226.03
40-50	272.33
50-60	274.71
60-70	256.08
70-80	235.75
80-90	321.8
90-100	102.62
100-110	201.19
110-120	187.48
120-130	164.34
130-140	137.26
140-150	113
150-160	89.89
160-170	56.44
170-180	18.61

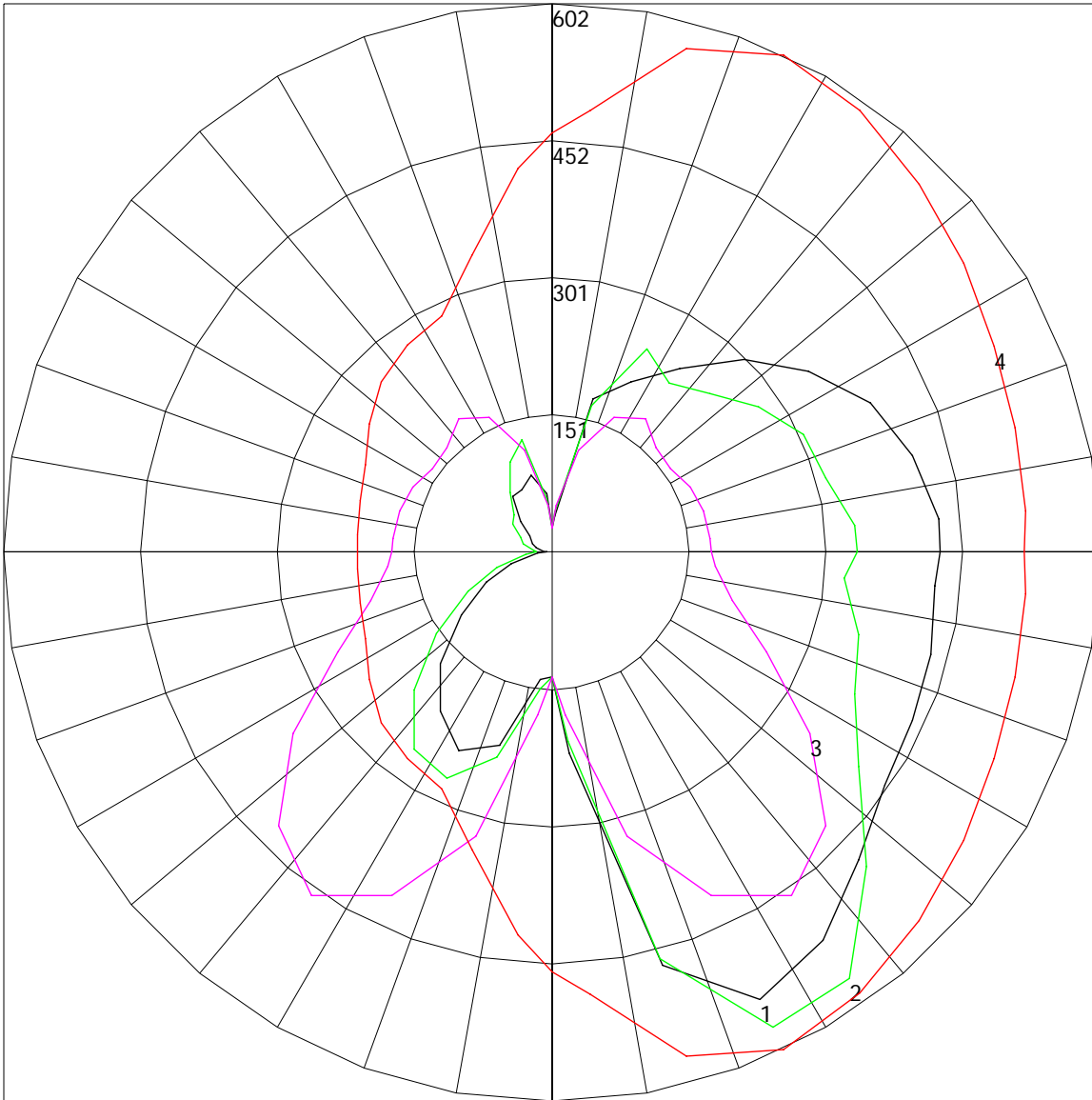
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	92	92	92	86	86	86	86	75	75	75	65	65	65	56	56	56	52
1	80	74	69	65	74	69	65	61	60	56	53	51	48	46	43	41	39	35
2	71	63	56	50	66	58	52	47	50	45	41	43	39	36	36	33	30	27
3	64	54	46	40	59	50	43	38	43	38	33	37	32	28	31	27	24	21
4	58	47	39	33	53	44	36	31	38	32	27	32	27	23	27	23	20	17
5	53	41	33	27	49	38	31	26	33	27	23	28	23	19	23	20	16	14
6	48	37	29	23	45	34	27	22	29	23	19	25	20	16	21	17	14	11
7	44	33	25	20	41	30	23	19	26	21	16	22	18	14	19	15	12	10
8	41	29	22	17	38	27	21	16	24	18	14	20	16	12	17	13	10	8
9	38	27	20	15	35	25	18	14	22	16	12	18	14	11	16	12	9	7
10	35	24	17	13	33	23	16	12	20	14	11	17	12	9	14	11	8	6

POLAR GRAPH



Maximum Candela = 602 Located At Horizontal Angle = 65, Vertical Angle = 35

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) : BLACK
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA
- # 4 - Horizontal Cone Through Vertical Angle (35) (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.