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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-8814-WEVE-LED1-700.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] C13110047-2
[TESTDATE] 3/23
[ISSUEDATE] 4/27
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[MANUFAC] JUSTICE
[LUMCAT] FSN-8814-WEVE-LED1-700LM
[LUMINAIRE]11 X 10.5" SHADE.
[LAMPCAT] 1-9W LED
[LAMP] LED 3000K 9W
[DISTRIBUTION] GENERAL DIFFUSE
[_TOTALLUMINAIRELUMENS] 475

CHARACTERISTICS

Lumens Per Lamp	475 (1 lamp)
Total Lamp Lumens	475
Luminaire Lumens	492
Total Luminaire Efficiency	104 %
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 m (Diameter)
Luminous Width (90-270)	0.50 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	451	464	459
55	494	511	506
65	577	602	597
75	784	823	819
85	1879	1994	2001

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	78.895	78.895	78.895	78.895	78.895	78.895	78.895	78.895	78.895	78.895
1	79.068	79.158	78.900	79.068	78.937	78.853	78.937	78.721	78.590	78.763
2	79.074	79.205	78.900	79.032	78.895	78.853	78.805	78.548	78.332	78.679
3	79.116	79.205	78.900	79.032	78.895	78.853	78.763	78.458	78.290	78.548
4	79.163	79.205	78.900	79.032	78.853	78.853	78.716	78.374	78.248	78.416
5	79.074	79.205	78.900	79.032	78.853	78.711	78.590	78.332	78.274	78.274
6	79.074	79.205	78.900	79.032	78.853	78.332	78.500	78.332	77.769	77.890
7	78.947	79.205	78.900	79.032	78.895	78.243	78.416	78.285	77.638	77.759
8	78.900	79.205	78.900	79.074	78.842	78.069	78.453	77.801	77.538	77.448
9	78.774	79.205	78.900	79.074	78.500	78.027	78.195	77.590	77.196	77.191
10	78.642	79.205	78.942	79.116	78.327	77.985	77.932	77.627	76.854	77.012
11	78.553	79.163	78.989	79.074	78.200	77.969	77.759	77.101	76.791	76.617
12	78.342	78.989	78.821	78.947	78.158	77.506	77.669	76.849	76.328	76.317
13	78.122	78.816	78.684	78.816	78.195	77.375	77.317	76.670	76.149	76.007
14	77.943	78.595	78.511	78.637	77.980	77.333	77.017	76.281	75.807	75.618
15	77.685	78.379	78.295	78.385	77.543	77.106	76.833	76.186	75.407	75.223
16	77.333	78.158	78.074	78.248	77.411	76.633	76.444	75.618	75.013	74.908
17	77.159	77.895	77.901	77.985	77.285	76.549	76.228	75.365	74.655	74.482
18	76.817	77.638	77.601	77.727	76.849	76.070	75.833	74.881	74.192	74.124
19	76.501	77.327	77.333	77.459	76.712	75.928	75.607	74.703	74.092	73.598
20	76.123	77.064	77.038	77.206	76.281	75.418	75.092	74.224	73.356	73.167
21	75.812	76.717	76.733	76.854	75.928	75.186	74.897	73.829	72.877	72.720
22	75.386	76.365	76.380	76.544	75.628	74.724	74.303	73.482	72.535	72.162
23	75.071	76.065	76.033	76.202	75.323	74.461	73.866	72.788	71.967	71.725
24	74.592	75.623	75.728	75.807	74.929	73.940	73.461	72.388	71.436	71.278
25	74.503	75.234	75.302	75.423	74.582	73.845	72.988	71.994	71.047	70.758
26	74.113	74.792	74.944	75.023	74.150	73.109	72.630	71.341	70.479	70.100
27	73.761	74.397	74.508	74.587	74.019	72.683	72.078	70.831	69.837	69.585
28	73.251	73.929	74.040	74.155	73.319	72.367	71.583	70.637	69.301	69.006
29	72.725	73.445	73.640	73.977	73.051	71.757	71.057	69.811	68.775	68.522
30	71.846	72.998	73.161	73.714	72.535	71.331	70.668	69.290	68.259	67.959
31	71.331	72.483	72.646	73.198	71.915	70.847	69.963	68.632	67.723	67.254
32	70.842	71.952	72.157	72.667	71.362	70.289	69.448	68.038	67.002	66.613
33	70.205	71.394	71.646	72.151	70.931	69.684	68.880	67.901	66.392	66.039
34	69.674	70.910	71.126	71.289	70.526	69.148	68.306	67.023	65.813	65.371
35	69.101	70.331	70.589	70.705	69.837	68.554	67.828	66.460	65.166	64.730
36	68.490	69.763	69.995	70.105	69.269	68.064	67.081	65.666	64.509	64.235
37	67.933	69.158	69.469	69.616	68.927	67.470	66.481	65.029	63.909	63.467
38	67.286	68.559	68.869	68.974	68.185	66.855	65.866	64.414	63.209	62.894
39	66.713	67.943	68.296	68.401	67.733	66.192	65.240	63.741	62.631	62.263
40	66.050	67.317	67.675	67.738	66.918	65.592	64.545	63.057	62.068	61.447
41	65.408	66.718	67.081	67.181	66.308	64.982	63.935	62.399	61.374	60.874
42	64.751	66.097	66.418	66.565	65.734	64.367	63.273	61.742	60.632	60.132
43	64.093	65.482	65.808	65.908	65.008	63.683	62.583	61.053	59.985	59.527
44	63.367	64.840	65.124	65.266	64.403	62.994	61.889	60.359	59.380	58.833
45	62.694	64.083	64.456	64.598	63.746	62.342	61.232	59.659	58.549	58.086
46	62.015	63.404	63.820	64.004	63.088	61.810	60.564	58.954	57.928	57.339
47	61.311	62.736	63.073	63.257	62.447	61.084	59.838	58.354	57.203	56.824
48	60.606	62.026	62.452	62.631	61.831	60.511	59.175	57.608	56.587	55.898
49	59.880	61.342	61.773	61.910	61.169	59.675	58.512	56.897	55.756	55.362
50	59.217	60.637	61.027	61.247	60.443	59.080	57.997	56.172	55.283	54.504
51	58.512	59.927	60.364	60.537	59.738	58.339	57.118	55.514	54.278	53.883
52	57.781	59.243	59.638	59.811	59.080	57.807	56.414	54.767	53.705	53.052
53	57.039	58.539	58.980	59.154	58.397	56.908	55.635	54.078	53.100	52.358

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CANDELA TABULATION - (Cont.)

54	56.314	57.771	58.297	58.465	57.729	56.408	55.093	53.363	52.211	51.474
55	55.603	57.139	57.550	57.718	57.008	55.467	54.220	52.616	51.364	50.848
56	54.851	56.261	56.840	56.966	56.345	55.083	53.494	51.853	50.659	49.996
57	54.036	55.525	55.982	56.193	55.514	54.036	52.789	51.148	49.870	49.207
58	53.294	54.778	55.325	55.488	54.825	53.431	52.011	50.412	49.181	48.513
59	52.542	53.983	54.530	54.693	54.031	52.684	51.301	49.660	48.387	47.713
60	51.774	53.258	53.810	53.931	53.289	51.895	50.591	48.918	47.640	46.967
61	51.022	52.463	53.016	53.173	52.563	51.090	49.786	48.276	46.919	46.246
62	50.233	51.711	52.248	52.405	51.811	50.333	49.071	47.435	46.120	45.615
63	49.465	50.896	51.501	51.611	51.038	49.560	48.334	46.746	45.431	44.752
64	48.708	50.138	50.727	50.838	50.296	48.818	47.677	46.262	44.647	44.221
65	47.903	49.328	49.944	50.091	49.549	48.161	47.009	45.294	44.152	43.306
66	47.151	48.744	49.144	49.297	48.865	47.308	46.157	44.352	43.211	42.790
67	46.377	47.845	48.329	48.481	48.113	46.683	45.562	43.642	42.548	41.770
68	45.541	46.961	47.535	47.687	47.172	45.788	44.447	42.827	41.733	40.954
69	44.752	46.167	46.751	46.893	46.462	45.336	43.695	42.027	40.849	40.155
70	43.942	45.352	45.936	46.083	45.709	44.205	42.901	41.286	40.060	39.366
71	43.143	44.594	45.141	45.283	44.794	43.416	42.112	40.649	39.255	38.598
72	42.348	43.758	44.305	44.489	43.979	42.559	41.370	39.839	38.445	37.835
73	41.533	42.937	43.490	43.626	43.290	41.864	40.513	39.019	37.672	37.188
74	40.691	42.048	42.648	42.832	42.543	40.960	39.934	38.109	36.930	36.399
75	39.845	41.196	41.843	41.980	41.622	40.255	38.882	37.357	36.189	35.563
76	39.003	40.402	40.965	41.186	40.681	39.355	38.019	36.541	35.416	34.700
77	38.209	39.603	40.171	40.349	39.887	38.514	37.262	35.784	34.911	33.985
78	37.441	38.787	39.403	39.576	39.113	37.746	36.536	35.016	33.848	33.259
79	36.646	37.988	38.561	38.777	38.330	36.962	35.784	34.311	33.143	32.507
80	35.957	37.172	37.751	37.961	37.751	36.305	35.079	33.611	32.438	31.802
81	35.210	36.420	37.004	37.299	36.978	35.568	34.390	32.917	31.749	31.155
82	34.374	35.668	36.252	36.510	36.189	34.884	33.743	32.275	31.218	30.466
83	33.648	34.900	35.568	35.821	35.642	34.216	33.070	31.649	30.613	29.882
84	32.859	34.190	34.821	35.200	34.979	33.580	32.428	31.050	30.056	29.240
85	32.170	33.506	34.143	34.479	34.264	32.954	31.844	30.682	29.430	28.825
86	31.465	32.749	33.475	33.727	33.454	32.312	31.202	30.082	28.699	28.010
87	30.803	32.086	32.775	33.106	32.886	31.707	30.718	29.424	28.141	27.573
88	30.124	31.407	32.097	32.470	32.154	31.323	30.334	28.830	28.099	27.057
89	29.503	30.782	31.471	31.891	31.549	30.803	30.334	28.830	27.794	26.837
90	28.856	30.171	30.871	31.539	31.549	30.760	30.240	28.788	27.620	26.794
91	28.330	29.651	30.687	31.450	31.507	30.760	30.029	28.788	27.489	26.794
92	28.015	29.551	30.597	31.318	31.549	30.718	29.977	28.788	27.405	26.794
93	27.931	29.419	30.466	31.229	31.371	30.713	29.766	28.783	27.405	26.794
94	27.883	29.372	30.419	31.097	31.023	30.408	29.677	28.741	27.405	26.794
95	27.841	29.246	30.292	31.013	30.897	30.282	29.545	28.567	27.405	26.794
96	27.710	29.198	30.161	30.924	30.855	30.192	29.545	28.436	27.405	26.752
97	27.620	29.114	30.071	30.834	30.808	30.108	29.503	28.436	27.405	26.752
98	27.578	28.941	29.945	30.666	30.813	30.150	29.503	28.388	27.405	26.752
99	27.494	28.935	29.856	30.618	30.850	30.108	29.503	28.304	27.405	26.752
100	27.405	28.762	29.766	30.529	30.755	30.108	29.461	28.173	27.405	26.752
101	27.363	28.678	29.724	30.403	30.371	30.150	29.414	28.130	27.405	26.752
102	27.273	28.672	29.551	30.355	30.287	30.103	29.240	28.130	27.405	26.752
103	27.273	28.546	29.551	30.182	30.156	29.845	29.109	28.088	27.405	26.752
104	27.147	28.499	29.467	30.140	30.114	29.672	29.067	28.088	27.405	26.752
105	27.142	28.457	29.335	30.050	30.071	29.630	29.025	28.088	27.405	26.752
106	27.057	28.415	29.288	29.966	30.114	29.414	28.935	28.088	27.405	26.752
107	27.057	28.283	29.161	29.919	30.024	29.367	28.893	28.088	27.405	26.752
108	26.968	28.194	29.114	29.835	29.898	29.367	28.846	28.088	27.405	26.752
109	26.926	28.194	29.030	29.745	29.808	29.367	28.846	28.088	27.405	26.752

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CANDELA TABULATION - (Cont.)

110	26.879	28.152	28.983	29.661	29.635	29.367	28.846	28.088	27.405	26.752
111	26.837	28.020	28.898	29.572	29.545	29.367	28.846	28.088	27.405	26.794
112	26.794	27.973	28.851	29.482	29.414	29.325	28.846	28.088	27.405	26.837
113	26.794	27.931	28.767	29.440	29.372	29.193	28.846	28.088	27.405	26.794
114	26.752	27.846	28.635	29.309	29.330	29.104	28.804	28.088	27.405	26.794
115	26.663	27.799	28.593	29.309	29.330	28.893	28.762	28.088	27.405	26.794
116	26.663	27.757	28.504	29.225	29.372	28.893	28.804	28.088	27.405	26.794
117	26.579	27.715	28.462	29.135	29.198	28.762	28.714	28.088	27.405	26.884
118	26.574	27.626	28.378	29.093	29.067	28.762	28.672	28.088	27.447	26.884
119	26.574	27.668	28.372	29.004	28.935	28.762	28.672	28.088	27.447	26.926
120	26.574	27.583	28.288	28.962	28.851	28.762	28.672	28.088	27.489	26.926
121	26.489	27.494	28.246	28.872	28.809	28.762	28.672	28.088	27.489	26.968
122	26.447	27.452	28.157	28.830	28.809	28.762	28.672	28.088	27.489	26.968
123	26.447	27.452	28.157	28.746	28.809	28.762	28.672	28.173	27.536	26.968
124	26.400	27.405	28.115	28.699	28.809	28.762	28.672	28.130	27.536	27.015
125	26.400	27.363	28.073	28.699	28.809	28.762	28.672	28.173	27.536	27.057
126	26.400	27.405	27.983	28.656	28.809	28.762	28.720	28.173	27.536	27.057
127	26.400	27.320	28.025	28.572	28.809	28.762	28.762	28.173	27.578	27.100
128	26.400	27.363	27.983	28.609	28.809	28.804	28.720	28.220	27.620	27.189
129	26.400	27.278	27.983	28.567	28.809	28.720	28.720	28.220	27.668	27.189
130	26.400	27.320	27.899	28.567	28.809	28.720	28.720	28.220	27.668	27.273
131	26.400	27.231	27.331	28.567	28.809	28.720	28.720	28.304	27.752	27.320
132	26.400	27.231	27.289	28.567	28.809	28.720	28.720	28.304	27.794	27.363
133	26.400	27.231	27.331	28.483	28.809	28.720	28.720	28.304	27.794	27.405
134	26.400	27.231	27.457	28.399	28.809	28.720	28.804	28.351	27.841	27.410
135	26.400	27.231	27.420	28.351	28.809	28.720	28.762	28.393	27.841	27.452
136	26.400	27.231	27.462	28.304	28.809	28.720	28.762	28.436	27.883	27.494
137	26.400	27.231	27.462	28.304	28.809	28.720	28.762	28.393	27.925	27.499
138	26.484	27.231	27.462	28.304	28.809	28.720	28.762	28.393	27.973	27.583
139	26.489	27.231	27.462	28.304	28.809	28.720	28.762	28.393	28.015	27.626
140	26.574	27.320	27.462	28.304	28.809	28.720	28.762	28.393	28.057	27.715
141	26.663	27.278	27.462	28.304	28.809	28.720	28.762	28.393	28.057	27.799
142	26.705	27.273	27.462	28.304	28.809	28.720	28.762	28.393	28.188	27.846
143	26.705	27.273	27.462	28.304	28.809	28.720	28.762	28.393	28.188	27.889
144	26.747	27.273	27.462	28.304	28.809	28.720	28.804	28.393	28.273	28.020
145	26.705	27.273	27.462	28.304	28.809	28.720	28.804	28.436	28.273	28.104
146	26.705	27.273	27.462	28.304	28.809	28.720	28.846	28.436	28.320	28.109
147	26.705	27.273	27.462	28.304	28.809	28.720	28.851	28.483	28.320	28.194
148	26.705	27.320	27.505	28.304	28.809	28.720	28.893	28.567	28.362	28.194
149	26.705	27.363	27.505	28.304	28.809	28.720	28.935	28.567	28.362	28.241
150	26.705	27.363	27.505	28.304	28.809	28.720	28.935	28.614	28.451	28.325
151	26.752	27.452	27.547	28.304	28.809	28.720	28.935	28.656	28.451	28.283
152	26.752	27.452	27.547	28.304	28.851	28.720	28.977	28.746	28.536	28.409
153	26.837	27.452	27.762	28.304	28.767	28.720	28.893	28.830	28.536	28.367
154	26.968	27.494	27.852	28.304	28.809	28.762	28.893	28.830	28.583	28.367
155	27.178	27.494	27.936	28.304	28.720	28.672	28.893	28.872	28.667	28.367
156	27.315	27.536	28.025	28.304	28.720	28.672	28.893	28.830	28.709	28.367
157	27.273	27.668	27.983	28.304	28.720	28.672	28.893	28.914	28.667	28.367
158	27.357	27.841	27.983	28.304	28.720	28.672	28.893	28.872	28.667	28.367
159	27.320	27.973	27.983	28.304	28.720	28.714	28.893	28.872	28.667	28.367
160	27.315	28.062	27.983	28.304	28.720	28.672	28.893	28.872	28.667	28.367
161	27.357	28.062	27.983	28.304	28.767	28.762	28.893	28.872	28.667	28.367
162	27.363	28.062	27.983	28.304	28.767	28.720	28.935	28.830	28.667	28.367
163	27.447	28.062	27.983	28.304	28.809	28.720	28.846	28.783	28.667	28.367
164	27.531	28.104	27.983	28.304	28.893	28.720	28.846	28.741	28.625	28.367
165	27.662	28.104	27.983	28.304	28.762	28.714	28.846	28.741	28.667	28.367

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CANDELA TABULATION - (Cont.)

166	28.130	28.146	27.983	28.304	28.630	28.536	28.799	28.772	28.357	28.320
167	28.099	28.236	28.025	28.351	28.057	28.062	28.278	28.173	27.967	27.973
168	27.678	27.846	27.731	27.873	27.499	27.447	27.568	27.468	27.221	27.263
169	26.842	27.026	26.900	27.100	26.668	26.647	26.684	26.489	26.326	26.410
170	25.895	26.074	25.869	26.126	25.800	25.711	25.774	25.458	25.259	25.343
171	24.927	25.101	24.948	25.085	24.754	24.822	24.711	24.485	24.328	24.538
172	23.938	24.112	24.001	24.122	23.791	23.670	23.775	23.375	23.260	23.386
173	22.907	23.070	23.013	23.002	22.529	22.581	22.592	22.408	22.166	22.323
174	21.892	22.139	21.913	21.945	21.324	21.403	21.403	21.187	20.945	21.098
175	20.788	20.851	20.724	20.803	20.761	20.730	20.814	20.766	20.572	20.551
176	20.272	20.509	20.419	20.372	21.245	21.077	21.292	21.203	21.051	21.029
177	20.951	20.935	20.930	21.193	22.113	21.992	22.171	22.166	22.013	21.950
178	21.971	21.971	21.740	21.845	23.202	23.039	23.139	23.128	23.013	22.870
179	22.823	22.665	22.497	22.634	24.022	23.807	23.996	23.854	23.786	23.644
180	23.670	23.670	23.670	23.670	23.670	23.670	23.670	23.670	23.670	23.670

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	78.895	78.895	78.895	78.895	78.895	78.895	78.895
1	78.548	78.637	78.853	78.769	79.026	78.984	79.068
2	78.290	78.463	78.721	78.721	78.984	79.074	79.074
3	78.116	78.332	78.590	78.553	78.984	79.032	79.116
4	78.158	78.327	78.506	78.379	78.984	79.074	79.163
5	77.974	78.022	78.290	78.332	78.984	79.032	79.074
6	77.506	77.764	78.069	78.074	78.853	78.858	79.074
7	77.459	77.680	77.853	77.901	78.679	78.811	78.947
8	77.064	77.574	77.638	77.596	78.506	78.679	78.900
9	76.770	76.938	77.380	77.464	78.290	78.553	78.774
10	76.675	76.885	77.075	77.206	78.111	78.337	78.642
11	76.196	76.365	76.770	76.985	77.848	78.158	78.553
12	76.028	76.149	76.470	76.649	77.596	77.948	78.342
13	75.628	75.755	76.075	76.296	77.369	77.727	78.122
14	75.244	75.497	75.765	76.033	77.059	77.417	77.943
15	74.850	75.013	75.381	75.649	76.717	77.159	77.685
16	74.576	74.781	75.023	75.292	76.407	76.849	77.333
17	74.013	74.224	74.545	74.955	76.054	76.554	77.159
18	73.714	74.003	74.161	74.518	75.670	76.202	76.817
19	73.314	73.351	73.719	74.119	75.271	75.844	76.501
20	72.672	72.919	73.282	73.698	74.829	75.465	76.123
21	72.230	72.430	72.940	73.430	74.445	75.108	75.812
22	71.931	71.920	72.325	73.161	73.956	74.713	75.386
23	71.194	71.441	71.767	72.693	73.572	74.240	75.071
24	70.715	70.910	71.241	72.209	73.088	73.798	74.592
25	70.484	70.558	70.815	71.657	72.614	73.330	74.503
26	69.663	69.816	70.242	70.784	72.041	72.925	74.113
27	69.064	69.301	69.674	70.216	71.557	72.404	73.761
28	68.485	68.722	69.032	69.616	71.084	71.846	73.251
29	67.880	68.154	68.506	69.132	70.473	71.405	72.725
30	67.575	67.638	67.933	68.512	69.895	70.873	71.846
31	66.786	67.107	67.333	67.917	69.337	70.274	71.331
32	66.229	66.418	66.718	67.302	68.717	69.742	70.842
33	65.450	65.724	66.034	66.665	68.117	69.101	70.205
34	64.914	65.103	65.377	66.092	67.502	68.575	69.674
35	64.183	64.456	64.756	65.434	66.923	67.954	69.101
36	63.567	63.793	64.119	64.756	66.281	67.402	68.490

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CANDELA TABULATION - (Cont.)

37	62.883	63.152	63.415	64.135	65.619	66.739	67.933
38	62.226	62.452	62.768	63.493	64.929	66.097	67.286
39	61.516	61.784	62.073	62.794	64.309	65.434	66.713
40	60.827	61.095	61.321	62.131	63.646	64.772	66.050
41	60.174	60.479	60.679	61.405	62.957	64.130	65.408
42	59.475	59.738	60.017	60.742	62.252	63.425	64.751
43	58.791	59.001	59.364	60.048	61.553	62.768	64.093
44	58.186	58.402	58.638	59.322	60.821	62.036	63.367
45	57.444	57.960	57.923	58.696	60.148	61.368	62.694
46	56.734	56.992	57.203	57.939	59.512	60.648	62.015
47	56.008	56.350	56.456	57.229	58.759	59.938	61.311
48	55.304	55.514	55.788	56.524	58.049	59.317	60.606
49	54.599	54.846	55.030	55.761	57.281	58.554	59.880
50	53.831	54.036	54.320	55.099	56.571	57.839	59.217
51	53.126	53.336	53.531	54.352	55.861	57.134	58.512
52	52.384	52.626	52.842	53.584	55.130	56.408	57.781
53	51.653	51.853	52.058	52.842	54.388	55.667	57.039
54	50.938	51.138	51.374	52.069	53.615	54.935	56.314
55	50.222	50.354	50.622	51.406	52.984	54.141	55.603
56	49.476	49.670	49.870	50.617	52.106	53.410	54.851
57	48.776	48.923	49.102	49.849	51.459	52.658	54.036
58	48.171	48.276	48.355	49.144	50.585	51.911	53.294
59	47.251	47.398	47.650	48.355	49.828	51.117	52.542
60	46.635	46.819	46.888	47.592	49.060	50.349	51.774
61	45.999	45.883	46.135	46.882	48.303	49.549	51.022
62	44.936	45.378	45.304	46.078	47.535	48.808	50.233
63	44.205	44.389	44.579	45.373	46.782	48.076	49.465
64	43.421	43.690	43.847	44.573	46.025	47.303	48.708
65	42.674	42.853	43.106	43.816	45.220	46.514	47.903
66	41.906	42.085	42.306	43.064	44.547	45.804	47.151
67	41.244	41.375	41.580	42.296	43.690	44.947	46.377
68	40.560	40.560	40.833	41.543	42.979	44.147	45.541
69	39.808	39.808	40.039	40.802	42.143	43.358	44.752
70	39.061	39.187	39.234	39.992	41.370	42.548	43.942
71	38.235	38.335	38.477	39.198	40.570	41.791	43.143
72	37.614	37.614	37.688	38.451	39.734	40.954	42.348
73	36.499	36.757	36.957	37.641	38.956	40.139	41.533
74	35.805	35.926	36.163	36.841	38.114	39.297	40.691
75	35.058	35.221	35.400	36.120	37.346	38.487	39.845
76	34.290	34.406	34.648	35.289	36.552	37.693	39.003
77	33.533	33.648	33.859	34.542	35.715	36.899	38.209
78	32.807	32.880	33.133	33.774	34.984	36.126	37.441
79	32.065	32.218	32.423	33.064	34.185	35.374	36.646
80	31.407	31.471	31.655	32.296	33.454	34.600	35.957
81	30.760	30.739	30.950	31.549	32.701	33.853	35.210
82	30.045	30.071	30.245	30.850	31.997	33.106	34.374
83	29.314	29.461	29.561	30.124	31.265	32.333	33.648
84	28.714	28.735	28.904	29.419	30.603	31.670	32.859
85	28.052	28.067	28.262	28.783	29.877	30.945	32.170
86	27.499	27.468	27.641	28.162	29.209	30.277	31.465
87	27.147	26.900	27.068	27.547	28.546	29.572	30.803
88	26.631	26.426	26.479	26.952	27.946	28.935	30.124
89	26.021	25.853	25.984	26.379	27.326	28.357	29.503
90	25.979	25.427	25.553	25.821	26.721	27.710	28.856
91	25.979	25.427	25.206	25.343	26.195	27.142	28.330
92	25.979	25.427	25.153	25.201	25.879	26.784	28.015

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CANDELA TABULATION - (Cont.)

93	25.979	25.427	25.153	25.159	25.832	26.737	27.931
94	25.979	25.427	25.111	25.111	25.790	26.647	27.883
95	25.979	25.427	25.027	25.111	25.748	26.605	27.841
96	25.979	25.427	25.022	25.027	25.658	26.521	27.710
97	25.979	25.427	25.022	24.938	25.616	26.474	27.620
98	25.979	25.427	24.980	24.938	25.616	26.389	27.578
99	25.979	25.427	24.980	24.854	25.527	26.342	27.494
100	25.979	25.427	24.890	24.848	25.527	26.342	27.405
101	25.979	25.427	24.890	24.806	25.485	26.300	27.363
102	25.984	25.427	24.932	24.806	25.395	26.169	27.273
103	26.069	25.427	24.848	24.806	25.353	26.169	27.273
104	26.026	25.427	24.890	24.806	25.353	26.084	27.147
105	26.026	25.427	24.848	24.806	25.306	26.079	27.142
106	25.979	25.427	24.848	24.848	25.306	25.995	27.057
107	25.984	25.427	24.848	24.764	25.353	26.037	27.057
108	26.026	25.469	24.848	24.806	25.311	25.953	26.968
109	25.984	25.469	24.848	24.764	25.264	25.953	26.926
110	26.069	25.469	24.848	24.764	25.222	25.863	26.879
111	26.069	25.474	24.848	24.764	25.264	25.863	26.837
112	26.069	25.558	24.848	24.764	25.222	25.774	26.794
113	26.111	25.558	24.848	24.764	25.180	25.816	26.794
114	26.069	25.558	24.848	24.764	25.174	25.732	26.752
115	26.158	25.600	24.848	24.764	25.174	25.774	26.663
116	26.200	25.600	24.848	24.764	25.174	25.732	26.663
117	26.200	25.690	24.848	24.764	25.174	25.690	26.579
118	26.200	25.648	24.848	24.764	25.174	25.732	26.574
119	26.242	25.690	24.848	24.764	25.222	25.648	26.574
120	26.200	25.690	24.848	24.764	25.090	25.648	26.574
121	26.284	25.774	24.848	24.764	25.132	25.648	26.489
122	26.242	25.732	24.848	24.764	25.090	25.648	26.447
123	26.284	25.821	24.848	24.764	25.090	25.648	26.447
124	26.332	25.863	24.848	24.764	25.090	25.648	26.400
125	26.374	25.821	24.890	24.764	25.090	25.648	26.400
126	26.416	25.953	24.633	24.764	25.090	25.648	26.400
127	26.458	25.995	24.591	24.764	25.090	25.690	26.400
128	26.505	25.995	24.585	24.764	25.090	25.122	26.400
129	26.547	26.084	25.138	24.764	25.090	25.122	26.400
130	26.589	26.169	25.322	24.806	25.090	25.038	26.400
131	26.679	26.258	25.285	24.806	25.174	25.206	26.400
132	26.721	26.300	25.285	25.022	25.348	25.295	26.400
133	26.763	26.300	25.285	25.153	25.395	25.427	26.400
134	26.810	26.389	25.327	25.195	25.353	25.427	26.400
135	26.900	26.432	25.327	25.201	25.353	25.600	26.400
136	26.984	26.474	25.369	25.243	25.395	25.990	26.400
137	26.942	26.521	25.453	25.243	25.437	26.079	26.400
138	26.984	26.605	25.879	25.369	25.606	26.121	26.484
139	27.026	26.695	25.979	25.458	25.700	26.126	26.489
140	27.115	26.737	25.979	25.932	25.832	26.126	26.574
141	27.157	26.826	25.979	26.021	26.048	26.126	26.663
142	27.247	26.868	25.979	26.021	26.095	26.126	26.705
143	27.331	26.910	25.979	26.021	26.095	26.126	26.705
144	27.373	27.000	25.979	26.021	26.095	26.126	26.747
145	27.462	27.042	25.979	26.021	26.095	26.126	26.705
146	27.636	27.131	25.979	26.021	26.095	26.126	26.705
147	27.636	27.173	26.147	26.021	26.095	26.126	26.705
148	27.720	27.305	26.195	26.069	26.137	26.169	26.705

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CANDELA TABULATION - (Cont.)

149	27.683	27.389	26.326	26.069	26.137	26.253	26.705
150	27.810	27.436	26.621	26.111	26.221	26.300	26.705
151	27.894	27.436	26.631	26.153	26.268	26.600	26.752
152	27.899	27.478	26.631	26.416	26.358	26.647	26.752
153	28.025	27.568	26.631	26.542	26.700	26.647	26.837
154	28.025	27.610	26.673	26.547	26.663	26.647	26.968
155	28.115	27.610	26.673	26.547	26.663	26.731	27.178
156	28.073	27.610	26.673	26.547	26.705	26.779	27.315
157	28.067	27.610	26.847	26.547	26.747	26.821	27.273
158	28.025	27.610	27.068	26.631	26.794	26.868	27.357
159	28.025	27.610	27.110	26.716	26.794	26.910	27.320
160	28.025	27.610	27.110	26.679	26.879	26.994	27.315
161	28.067	27.610	27.152	26.673	26.926	27.389	27.357
162	27.983	27.610	27.152	26.763	26.968	27.389	27.363
163	27.983	27.610	27.152	26.847	27.352	27.473	27.447
164	27.983	27.610	27.284	27.063	27.489	27.436	27.531
165	27.983	27.610	27.368	27.152	27.494	27.431	27.662
166	27.941	27.647	27.331	27.194	27.494	27.473	28.130
167	27.894	27.431	27.331	27.242	27.536	27.478	28.099
168	26.968	26.810	27.115	27.073	27.326	27.436	27.678
169	26.042	25.974	26.426	26.332	26.626	26.742	26.842
170	25.101	25.148	25.606	25.432	25.716	25.790	25.895
171	24.217	24.049	24.685	24.548	24.880	24.817	24.927
172	23.233	23.112	23.744	23.649	23.796	23.791	23.938
173	22.397	22.103	22.834	22.792	22.886	22.839	22.907
174	20.961	20.961	21.776	21.703	21.829	21.787	21.892
175	20.372	20.330	20.761	20.688	20.761	20.724	20.788
176	20.761	20.677	20.372	20.256	20.209	20.120	20.272
177	21.640	21.466	20.972	21.066	20.845	20.756	20.951
178	22.555	22.387	22.124	22.045	22.255	21.950	21.971
179	23.155	23.118	23.165	23.202	23.207	23.112	22.823
180	23.670	23.670	23.670	23.670	23.670	23.670	23.670

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	29.13	6.10	5.90
0-30	62.71	13.20	12.70
0-40	104.89	22.10	21.30
0-60	199.98	42.10	40.60
0-80	286.22	60.30	58.20
0-90	320.16	67.40	65.10
10-90	312.68	65.80	63.60
20-40	75.76	15.90	15.40
20-50	122.76	25.80	25.00
40-70	140.85	29.70	28.60
60-80	86.24	18.20	17.50
70-80	40.48	8.50	8.20
80-90	33.94	7.10	6.90
90-110	59.45	12.50	12.10
90-120	86.38	18.20	17.60
90-130	110.61	23.30	22.50
90-150	148.91	31.30	30.30
90-180	171.84	36.20	34.90
110-180	112.39	23.70	22.80
0-180	492.00	103.60	100.00

Total Luminaire Efficiency = 103.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.48
10-20	21.65
20-30	33.58
30-40	42.18
40-50	47.00
50-60	48.09
60-70	45.76
70-80	40.48
80-90	33.94
90-100	30.44
100-110	29.00
110-120	26.93
120-130	24.23
130-140	21.03
140-150	17.26
150-160	12.87
160-170	7.87
170-180	2.19

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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		115	115	115	115	108	108	108	108	95	95	95	83	83	83	72	72	72	67
1		101	95	90	85	95	90	85	80	78	75	71	68	65	63	59	57	55	50
2		91	82	74	67	85	77	70	64	67	61	57	58	54	50	50	47	44	39
3		82	71	62	55	77	66	58	52	58	52	46	50	45	41	43	39	36	32
4		75	62	53	45	70	58	50	43	51	44	39	44	39	34	38	34	30	27
5		69	55	45	38	64	52	43	37	45	38	33	40	34	29	34	29	26	23
6		63	49	40	33	59	46	38	31	41	34	28	36	30	25	31	26	22	19
7		58	44	35	29	54	42	33	27	37	30	25	32	26	22	28	23	20	17
8		54	40	31	25	50	38	30	24	33	27	22	29	24	20	26	21	17	15
9		50	37	28	22	47	35	27	21	31	24	19	27	21	18	24	19	16	13
10		47	34	25	20	44	32	24	19	28	22	17	25	20	16	22	17	14	12

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UGR TABLE - CORRECTED

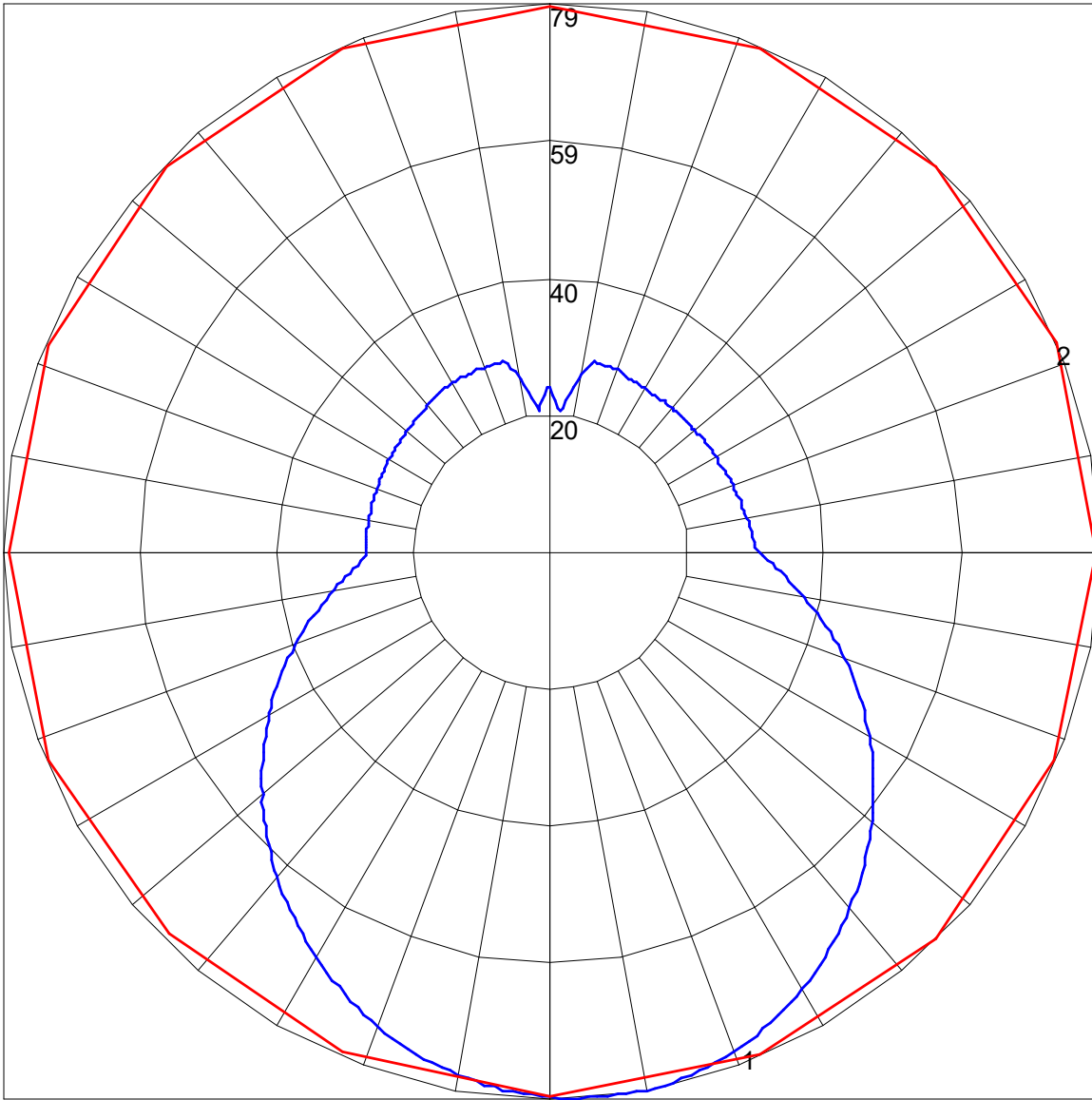
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	6.4	7.5	7.2	8.3	9.4	6.5	7.6	7.3	8.5	9.5
	3H	9.2	10.2	10.0	11.1	12.1	9.4	10.4	10.2	11.3	12.3
	4H	10.6	11.6	11.5	12.4	13.5	10.8	11.8	11.7	12.7	13.7
	6H	12.2	13.1	13.0	13.9	15.0	12.4	13.3	13.2	14.2	15.3
	8H	13.0	13.8	13.8	14.7	15.8	13.2	14.1	14.1	15.0	16.1
	12H	13.9	14.8	14.8	15.6	16.8	14.2	15.1	15.1	15.9	17.1
4H	2H	7.2	8.2	8.1	9.1	10.1	7.4	8.3	8.2	9.2	10.3
	3H	10.3	11.1	11.2	12.0	13.1	10.5	11.3	11.3	12.2	13.3
	4H	11.9	12.7	12.8	13.6	14.7	12.1	12.9	13.0	13.8	14.9
	6H	13.6	14.3	14.5	15.2	16.3	13.9	14.5	14.7	15.5	16.6
	8H	14.6	15.2	15.4	16.1	17.3	14.8	15.5	15.7	16.4	17.5
	12H	15.6	16.2	16.5	17.1	18.3	15.9	16.5	16.8	17.4	18.6
8H	4H	12.5	13.2	13.4	14.1	15.2	12.7	13.4	13.6	14.3	15.4
	6H	14.5	15.1	15.4	16.0	17.2	14.8	15.3	15.7	16.2	17.4
	8H	15.7	16.2	16.6	17.1	18.2	15.9	16.4	16.8	17.3	18.5
	12H	17.0	17.4	17.9	18.3	19.5	17.2	17.7	18.2	18.6	19.8
12H	4H	12.7	13.3	13.6	14.2	15.3	12.9	13.5	13.8	14.4	15.5
	6H	14.8	15.3	15.7	16.2	17.4	15.0	15.5	15.9	16.4	17.6
	8H	16.0	16.5	17.0	17.4	18.6	16.3	16.7	17.2	17.6	18.8

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 79.205 Located At Horizontal Angle = 22.5, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)