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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-8455-LED1-700.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] C13110047-2
[TESTDATE] 3/23
[ISSUE DATE] 4/27
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[MANUFAC] JUSTICE DESING GROUP
[LUMCAT] FAL-8455-LED1-700
[LUMINAIRE] FUSION COLLECTION 1-LIGHT PENDANT
[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	398
Total Luminaire Efficiency	84 %
Luminaire Efficacy Rating (LER)	44
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	366	376	372
55	400	414	410
65	467	487	483
75	635	667	663
85	1522	1615	1621

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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	63.896	63.896	63.896	63.896	63.896	63.896	63.896	63.896	63.896	63.896
1	64.036	64.109	63.900	64.036	63.930	63.862	63.930	63.755	63.649	63.789
2	64.041	64.147	63.900	64.006	63.896	63.862	63.823	63.615	63.440	63.721
3	64.075	64.147	63.900	64.006	63.896	63.862	63.789	63.542	63.406	63.615
4	64.113	64.147	63.900	64.006	63.862	63.862	63.751	63.474	63.372	63.508
5	64.041	64.147	63.900	64.006	63.862	63.747	63.649	63.440	63.393	63.393
6	64.041	64.147	63.900	64.006	63.862	63.440	63.576	63.440	62.984	63.082
7	63.938	64.147	63.900	64.006	63.896	63.367	63.508	63.402	62.878	62.976
8	63.900	64.147	63.900	64.041	63.853	63.227	63.538	63.010	62.797	62.724
9	63.798	64.147	63.900	64.041	63.576	63.193	63.329	62.839	62.520	62.515
10	63.691	64.147	63.934	64.075	63.436	63.159	63.116	62.869	62.243	62.371
11	63.619	64.113	63.972	64.041	63.333	63.146	62.976	62.443	62.192	62.051
12	63.448	63.972	63.836	63.938	63.299	62.771	62.903	62.239	61.817	61.808
13	63.270	63.832	63.725	63.832	63.329	62.665	62.618	62.094	61.672	61.557
14	63.125	63.653	63.585	63.687	63.154	62.631	62.375	61.779	61.395	61.242
15	62.916	63.478	63.410	63.483	62.801	62.447	62.226	61.702	61.071	60.922
16	62.631	63.299	63.231	63.372	62.694	62.064	61.911	61.242	60.752	60.667
17	62.490	63.086	63.091	63.159	62.592	61.996	61.736	61.037	60.462	60.322
18	62.213	62.878	62.848	62.950	62.239	61.608	61.416	60.645	60.087	60.032
19	61.957	62.626	62.631	62.733	62.128	61.493	61.233	60.501	60.006	59.606
20	61.651	62.413	62.392	62.528	61.779	61.080	60.816	60.113	59.410	59.257
21	61.399	62.132	62.145	62.243	61.493	60.892	60.658	59.793	59.022	58.894
22	61.054	61.847	61.859	61.992	61.250	60.518	60.177	59.512	58.745	58.443
23	60.799	61.604	61.578	61.715	61.003	60.305	59.823	58.950	58.285	58.089
24	60.411	61.246	61.331	61.395	60.684	59.883	59.495	58.626	57.855	57.727
25	60.339	60.931	60.986	61.084	60.403	59.806	59.112	58.307	57.540	57.306
26	60.023	60.573	60.696	60.760	60.053	59.210	58.822	57.778	57.080	56.773
27	59.738	60.253	60.343	60.407	59.947	58.865	58.375	57.365	56.560	56.356
28	59.325	59.874	59.964	60.057	59.380	58.609	57.974	57.208	56.125	55.887
29	58.899	59.482	59.640	59.913	59.163	58.115	57.548	56.539	55.699	55.495
30	58.187	59.120	59.252	59.700	58.745	57.770	57.233	56.117	55.282	55.039
31	57.770	58.703	58.835	59.282	58.243	57.378	56.662	55.584	54.847	54.468
32	57.374	58.273	58.439	58.852	57.795	56.926	56.245	55.103	54.264	53.949
33	56.858	57.821	58.025	58.434	57.446	56.436	55.785	54.992	53.770	53.484
34	56.428	57.429	57.604	57.736	57.118	56.002	55.320	54.281	53.301	52.943
35	55.964	56.960	57.169	57.263	56.560	55.521	54.933	53.825	52.777	52.424
36	55.469	56.500	56.688	56.777	56.100	55.124	54.328	53.182	52.245	52.023
37	55.018	56.010	56.262	56.381	55.823	54.643	53.842	52.666	51.759	51.401
38	54.494	55.525	55.776	55.861	55.222	54.145	53.344	52.168	51.192	50.937
39	54.030	55.026	55.312	55.397	54.856	53.608	52.837	51.623	50.724	50.426
40	53.493	54.519	54.809	54.860	54.196	53.122	52.274	51.069	50.268	49.765
41	52.973	54.034	54.328	54.409	53.702	52.628	51.780	50.536	49.706	49.301
42	52.441	53.531	53.791	53.910	53.237	52.130	51.244	50.004	49.105	48.700
43	51.908	53.033	53.297	53.378	52.649	51.576	50.685	49.446	48.581	48.210
44	51.320	52.513	52.743	52.858	52.159	51.018	50.123	48.883	48.091	47.648
45	50.775	51.900	52.202	52.317	51.627	50.490	49.591	48.317	47.418	47.043
46	50.225	51.350	51.687	51.836	51.094	50.059	49.050	47.746	46.915	46.438
47	49.655	50.809	51.082	51.231	50.575	49.471	48.462	47.260	46.327	46.021
48	49.084	50.234	50.579	50.724	50.076	49.007	47.925	46.656	45.829	45.271
49	48.496	49.680	50.029	50.140	49.540	48.330	47.388	46.080	45.156	44.836
50	47.959	49.109	49.425	49.603	48.952	47.848	46.971	45.493	44.773	44.142
51	47.388	48.534	48.888	49.028	48.381	47.248	46.259	44.960	43.959	43.639
52	46.796	47.980	48.300	48.440	47.848	46.817	45.688	44.355	43.495	42.966
53	46.195	47.410	47.767	47.908	47.295	46.089	45.058	43.797	43.005	42.404

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CANDELA TABULATION - (Cont.)

54	45.608	46.788	47.214	47.350	46.753	45.684	44.619	43.218	42.285	41.688
55	45.032	46.276	46.609	46.745	46.170	44.922	43.912	42.613	41.599	41.181
56	44.423	45.565	46.034	46.136	45.633	44.611	43.324	41.995	41.028	40.491
57	43.763	44.969	45.339	45.510	44.960	43.763	42.753	41.424	40.389	39.852
58	43.162	44.364	44.807	44.939	44.402	43.273	42.123	40.828	39.831	39.290
59	42.553	43.720	44.163	44.295	43.759	42.668	41.548	40.219	39.188	38.642
60	41.931	43.132	43.580	43.678	43.158	42.029	40.973	39.618	38.583	38.038
61	41.322	42.489	42.937	43.064	42.570	41.377	40.321	39.098	37.999	37.454
62	40.683	41.880	42.315	42.442	41.961	40.764	39.742	38.417	37.352	36.943
63	40.061	41.220	41.710	41.799	41.335	40.138	39.145	37.859	36.794	36.244
64	39.448	40.606	41.083	41.173	40.734	39.537	38.613	37.467	36.159	35.814
65	38.796	39.950	40.449	40.568	40.129	39.005	38.072	36.683	35.758	35.073
66	38.187	39.477	39.801	39.925	39.575	38.314	37.381	35.920	34.996	34.655
67	37.560	38.749	39.141	39.264	38.966	37.807	36.900	35.345	34.459	33.829
68	36.883	38.033	38.498	38.621	38.204	37.083	35.997	34.685	33.799	33.168
69	36.244	37.390	37.863	37.978	37.629	36.717	35.388	34.037	33.083	32.521
70	35.588	36.730	37.203	37.322	37.019	35.801	34.745	33.437	32.444	31.882
71	34.941	36.116	36.559	36.674	36.278	35.162	34.106	32.921	31.792	31.260
72	34.297	35.439	35.882	36.031	35.618	34.468	33.505	32.265	31.136	30.642
73	33.637	34.774	35.222	35.332	35.060	33.905	32.811	31.601	30.510	30.118
74	32.955	34.054	34.540	34.689	34.455	33.173	32.342	30.864	29.909	29.479
75	32.269	33.364	33.888	33.999	33.709	32.602	31.490	30.255	29.309	28.802
76	31.588	32.721	33.177	33.356	32.947	31.873	30.791	29.594	28.683	28.103
77	30.945	32.074	32.534	32.678	32.304	31.192	30.178	28.981	28.274	27.524
78	30.323	31.413	31.912	32.052	31.677	30.570	29.590	28.359	27.413	26.936
79	29.679	30.766	31.230	31.405	31.043	29.935	28.981	27.788	26.842	26.327
80	29.121	30.105	30.574	30.744	30.574	29.403	28.410	27.221	26.271	25.756
81	28.516	29.496	29.969	30.208	29.948	28.806	27.852	26.659	25.713	25.232
82	27.839	28.887	29.360	29.569	29.309	28.252	27.328	26.139	25.283	24.674
83	27.251	28.265	28.806	29.011	28.866	27.711	26.783	25.632	24.793	24.201
84	26.612	27.690	28.201	28.508	28.329	27.196	26.263	25.147	24.342	23.681
85	26.054	27.136	27.652	27.924	27.750	26.689	25.790	24.849	23.835	23.345
86	25.483	26.523	27.111	27.315	27.094	26.169	25.270	24.363	23.243	22.684
87	24.947	25.986	26.544	26.812	26.634	25.679	24.878	23.830	22.791	22.331
88	24.397	25.436	25.995	26.297	26.041	25.368	24.567	23.349	22.757	21.913
89	23.894	24.930	25.488	25.828	25.551	24.947	24.567	23.349	22.510	21.735
90	23.370	24.435	25.002	25.543	25.551	24.912	24.491	23.315	22.369	21.700
91	22.944	24.014	24.853	25.471	25.517	24.912	24.320	23.315	22.263	21.700
92	22.689	23.933	24.780	25.364	25.551	24.878	24.278	23.315	22.195	21.700
93	22.621	23.826	24.674	25.292	25.407	24.874	24.107	23.311	22.195	21.700
94	22.582	23.788	24.636	25.185	25.125	24.627	24.035	23.277	22.195	21.700
95	22.548	23.686	24.533	25.117	25.023	24.525	23.928	23.136	22.195	21.700
96	22.442	23.647	24.427	25.045	24.989	24.452	23.928	23.030	22.195	21.666
97	22.369	23.579	24.354	24.972	24.951	24.384	23.894	23.030	22.195	21.666
98	22.335	23.439	24.252	24.836	24.955	24.418	23.894	22.991	22.195	21.666
99	22.267	23.434	24.180	24.797	24.985	24.384	23.894	22.923	22.195	21.666
100	22.195	23.294	24.107	24.725	24.908	24.384	23.860	22.817	22.195	21.666
101	22.161	23.226	24.073	24.623	24.597	24.418	23.822	22.782	22.195	21.666
102	22.088	23.221	23.933	24.584	24.529	24.380	23.681	22.782	22.195	21.666
103	22.088	23.119	23.933	24.444	24.423	24.171	23.575	22.748	22.195	21.666
104	21.986	23.081	23.865	24.410	24.388	24.031	23.541	22.748	22.195	21.666
105	21.982	23.047	23.758	24.337	24.354	23.997	23.507	22.748	22.195	21.666
106	21.913	23.013	23.720	24.269	24.388	23.822	23.434	22.748	22.195	21.666
107	21.913	22.906	23.617	24.231	24.316	23.784	23.400	22.748	22.195	21.666
108	21.841	22.834	23.579	24.163	24.214	23.784	23.362	22.748	22.195	21.666
109	21.807	22.834	23.511	24.090	24.141	23.784	23.362	22.748	22.195	21.666

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110	21.769	22.800	23.473	24.022	24.001	23.784	23.362	22.748	22.195	21.666
111	21.735	22.693	23.404	23.950	23.928	23.784	23.362	22.748	22.195	21.700
112	21.700	22.655	23.366	23.877	23.822	23.749	23.362	22.748	22.195	21.735
113	21.700	22.621	23.298	23.843	23.788	23.643	23.362	22.748	22.195	21.700
114	21.666	22.552	23.191	23.737	23.754	23.571	23.328	22.748	22.195	21.700
115	21.594	22.514	23.157	23.737	23.754	23.400	23.294	22.748	22.195	21.700
116	21.594	22.480	23.085	23.669	23.788	23.400	23.328	22.748	22.195	21.700
117	21.526	22.446	23.051	23.596	23.647	23.294	23.255	22.748	22.195	21.773
118	21.522	22.374	22.983	23.562	23.541	23.294	23.221	22.748	22.229	21.773
119	21.522	22.408	22.978	23.490	23.434	23.294	23.221	22.748	22.229	21.807
120	21.522	22.339	22.910	23.456	23.366	23.294	23.221	22.748	22.263	21.807
121	21.453	22.267	22.876	23.383	23.332	23.294	23.221	22.748	22.263	21.841
122	21.419	22.233	22.804	23.349	23.332	23.294	23.221	22.748	22.263	21.841
123	21.419	22.233	22.804	23.281	23.332	23.294	23.221	22.817	22.301	21.841
124	21.381	22.195	22.770	23.243	23.332	23.294	23.221	22.782	22.301	21.879
125	21.381	22.161	22.736	23.243	23.332	23.294	23.221	22.817	22.301	21.913
126	21.381	22.195	22.663	23.208	23.332	23.294	23.260	22.817	22.301	21.913
127	21.381	22.126	22.697	23.140	23.332	23.294	23.294	22.817	22.335	21.948
128	21.381	22.161	22.663	23.170	23.332	23.328	23.260	22.855	22.369	22.020
129	21.381	22.092	22.663	23.136	23.332	23.260	23.260	22.855	22.408	22.020
130	21.381	22.126	22.595	23.136	23.332	23.260	23.260	22.855	22.408	22.088
131	21.381	22.054	22.135	23.136	23.332	23.260	23.260	22.923	22.476	22.126
132	21.381	22.054	22.101	23.136	23.332	23.260	23.260	22.923	22.510	22.161
133	21.381	22.054	22.135	23.068	23.332	23.260	23.260	22.923	22.510	22.195
134	21.381	22.054	22.237	23.000	23.332	23.260	23.328	22.961	22.548	22.199
135	21.381	22.054	22.207	22.961	23.332	23.260	23.294	22.995	22.548	22.233
136	21.381	22.054	22.241	22.923	23.332	23.260	23.294	23.030	22.582	22.267
137	21.381	22.054	22.241	22.923	23.332	23.260	23.294	22.995	22.616	22.271
138	21.449	22.054	22.241	22.923	23.332	23.260	23.294	22.995	22.655	22.339
139	21.453	22.054	22.241	22.923	23.332	23.260	23.294	22.995	22.689	22.374
140	21.522	22.126	22.241	22.923	23.332	23.260	23.294	22.995	22.723	22.446
141	21.594	22.092	22.241	22.923	23.332	23.260	23.294	22.995	22.723	22.514
142	21.628	22.088	22.241	22.923	23.332	23.260	23.294	22.995	22.829	22.552
143	21.628	22.088	22.241	22.923	23.332	23.260	23.294	22.995	22.829	22.587
144	21.662	22.088	22.241	22.923	23.332	23.260	23.328	22.995	22.897	22.693
145	21.628	22.088	22.241	22.923	23.332	23.260	23.328	23.030	22.897	22.761
146	21.628	22.088	22.241	22.923	23.332	23.260	23.362	23.030	22.936	22.765
147	21.628	22.088	22.241	22.923	23.332	23.260	23.366	23.068	22.936	22.834
148	21.628	22.126	22.276	22.923	23.332	23.260	23.400	23.136	22.970	22.834
149	21.628	22.161	22.276	22.923	23.332	23.260	23.434	23.136	22.970	22.872
150	21.628	22.161	22.276	22.923	23.332	23.260	23.434	23.174	23.042	22.940
151	21.666	22.233	22.310	22.923	23.332	23.260	23.434	23.208	23.042	22.906
152	21.666	22.233	22.310	22.923	23.366	23.260	23.468	23.281	23.110	23.008
153	21.735	22.233	22.484	22.923	23.298	23.260	23.400	23.349	23.110	22.974
154	21.841	22.267	22.557	22.923	23.332	23.294	23.400	23.349	23.149	22.974
155	22.011	22.267	22.625	22.923	23.260	23.221	23.400	23.383	23.217	22.974
156	22.122	22.301	22.697	22.923	23.260	23.221	23.400	23.349	23.251	22.974
157	22.088	22.408	22.663	22.923	23.260	23.221	23.400	23.417	23.217	22.974
158	22.156	22.548	22.663	22.923	23.260	23.221	23.400	23.383	23.217	22.974
159	22.126	22.655	22.663	22.923	23.260	23.255	23.400	23.383	23.217	22.974
160	22.122	22.727	22.663	22.923	23.260	23.221	23.400	23.383	23.217	22.974
161	22.156	22.727	22.663	22.923	23.298	23.294	23.400	23.383	23.217	22.974
162	22.161	22.727	22.663	22.923	23.298	23.260	23.434	23.349	23.217	22.974
163	22.229	22.727	22.663	22.923	23.332	23.260	23.362	23.311	23.217	22.974
164	22.297	22.761	22.663	22.923	23.400	23.260	23.362	23.277	23.183	22.974
165	22.403	22.761	22.663	22.923	23.294	23.255	23.362	23.277	23.217	22.974

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CANDELA TABULATION - (Cont.)

166	22.782	22.795	22.663	22.923	23.187	23.110	23.323	23.302	22.966	22.936
167	22.757	22.868	22.697	22.961	22.723	22.727	22.902	22.817	22.650	22.655
168	22.416	22.552	22.459	22.574	22.271	22.229	22.327	22.246	22.045	22.080
169	21.739	21.888	21.786	21.948	21.598	21.581	21.611	21.453	21.321	21.389
170	20.972	21.117	20.951	21.159	20.895	20.823	20.874	20.618	20.457	20.525
171	20.188	20.329	20.205	20.316	20.048	20.103	20.013	19.830	19.702	19.873
172	19.387	19.528	19.438	19.536	19.268	19.170	19.255	18.931	18.838	18.940
173	18.552	18.684	18.637	18.629	18.246	18.288	18.297	18.148	17.952	18.079
174	17.730	17.930	17.747	17.773	17.270	17.334	17.334	17.159	16.963	17.087
175	16.836	16.887	16.784	16.848	16.814	16.789	16.857	16.818	16.661	16.644
176	16.418	16.610	16.537	16.499	17.206	17.070	17.244	17.172	17.049	17.031
177	16.968	16.955	16.951	17.164	17.909	17.811	17.956	17.952	17.828	17.777
178	17.794	17.794	17.607	17.692	18.791	18.659	18.740	18.731	18.637	18.522
179	18.484	18.356	18.220	18.331	19.455	19.281	19.434	19.319	19.264	19.149
180	19.170	19.170	19.170	19.170	19.170	19.170	19.170	19.170	19.170	19.170

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	63.896	63.896	63.896	63.896	63.896	63.896	63.896
1	63.615	63.687	63.862	63.793	64.002	63.968	64.036
2	63.406	63.546	63.755	63.755	63.968	64.041	64.041
3	63.265	63.440	63.649	63.619	63.968	64.006	64.075
4	63.299	63.436	63.580	63.478	63.968	64.041	64.113
5	63.150	63.189	63.406	63.440	63.968	64.006	64.041
6	62.771	62.980	63.227	63.231	63.862	63.866	64.041
7	62.733	62.912	63.052	63.091	63.721	63.828	63.938
8	62.413	62.826	62.878	62.844	63.580	63.721	63.900
9	62.175	62.311	62.669	62.737	63.406	63.619	63.798
10	62.098	62.268	62.422	62.528	63.261	63.444	63.691
11	61.710	61.847	62.175	62.349	63.048	63.299	63.619
12	61.574	61.672	61.932	62.077	62.844	63.129	63.448
13	61.250	61.353	61.612	61.791	62.660	62.950	63.270
14	60.939	61.144	61.361	61.578	62.409	62.699	63.125
15	60.620	60.752	61.050	61.267	62.132	62.490	62.916
16	60.398	60.564	60.760	60.978	61.881	62.239	62.631
17	59.942	60.113	60.373	60.705	61.595	62.000	62.490
18	59.700	59.934	60.062	60.351	61.284	61.715	62.213
19	59.376	59.406	59.704	60.028	60.961	61.425	61.957
20	58.856	59.056	59.350	59.687	60.603	61.118	61.651
21	58.498	58.660	59.073	59.470	60.292	60.829	61.399
22	58.255	58.247	58.575	59.252	59.896	60.509	61.054
23	57.659	57.859	58.123	58.873	59.585	60.126	60.799
24	57.271	57.429	57.697	58.481	59.193	59.768	60.411
25	57.084	57.144	57.352	58.034	58.809	59.389	60.339
26	56.419	56.543	56.888	57.327	58.345	59.061	60.023
27	55.934	56.125	56.428	56.867	57.953	58.639	59.738
28	55.465	55.657	55.908	56.381	57.570	58.187	59.325
29	54.975	55.197	55.482	55.989	57.075	57.829	58.899
30	54.728	54.779	55.018	55.486	56.607	57.399	58.187
31	54.089	54.349	54.532	55.005	56.155	56.914	57.770
32	53.638	53.791	54.034	54.507	55.653	56.483	57.374
33	53.007	53.229	53.480	53.991	55.167	55.964	56.858
34	52.573	52.726	52.948	53.527	54.669	55.538	56.428
35	51.981	52.202	52.445	52.994	54.200	55.035	55.964
36	51.482	51.665	51.929	52.445	53.680	54.588	55.469

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CANDELA TABULATION - (Cont.)

37	50.928	51.146	51.359	51.942	53.143	54.051	55.018
38	50.396	50.579	50.835	51.422	52.585	53.531	54.494
39	49.821	50.038	50.272	50.856	52.083	52.994	54.030
40	49.263	49.480	49.663	50.319	51.546	52.458	53.493
41	48.734	48.981	49.143	49.731	50.988	51.938	52.973
42	48.168	48.381	48.607	49.194	50.417	51.367	52.441
43	47.614	47.784	48.078	48.632	49.851	50.835	51.908
44	47.124	47.299	47.490	48.044	49.258	50.242	51.320
45	46.523	46.941	46.911	47.537	48.713	49.701	50.775
46	45.948	46.157	46.327	46.924	48.198	49.118	50.225
47	45.360	45.637	45.723	46.349	47.588	48.543	49.655
48	44.790	44.960	45.182	45.778	47.013	48.040	49.084
49	44.219	44.419	44.568	45.160	46.391	47.422	48.496
50	43.597	43.763	43.993	44.623	45.816	46.843	47.959
51	43.026	43.196	43.354	44.019	45.241	46.272	47.388
52	42.425	42.621	42.796	43.397	44.649	45.684	46.796
53	41.833	41.995	42.161	42.796	44.048	45.084	46.195
54	41.254	41.416	41.607	42.170	43.422	44.491	45.608
55	40.674	40.781	40.998	41.633	42.911	43.848	45.032
56	40.070	40.227	40.389	40.994	42.200	43.256	44.423
57	39.503	39.622	39.767	40.372	41.676	42.647	43.763
58	39.013	39.098	39.162	39.801	40.968	42.042	43.162
59	38.268	38.387	38.591	39.162	40.355	41.399	42.553
60	37.769	37.918	37.974	38.544	39.733	40.777	41.931
61	37.254	37.160	37.364	37.969	39.120	40.129	41.322
62	36.393	36.751	36.691	37.318	38.498	39.529	40.683
63	35.801	35.950	36.103	36.747	37.888	38.936	40.061
64	35.166	35.384	35.511	36.099	37.275	38.310	39.448
65	34.561	34.706	34.911	35.486	36.623	37.671	38.796
66	33.939	34.084	34.263	34.877	36.078	37.096	38.187
67	33.403	33.509	33.675	34.255	35.384	36.402	37.560
68	32.849	32.849	33.070	33.645	34.808	35.754	36.883
69	32.240	32.240	32.427	33.045	34.131	35.115	36.244
70	31.635	31.737	31.775	32.389	33.505	34.459	35.588
71	30.966	31.047	31.162	31.746	32.857	33.846	34.941
72	30.463	30.463	30.523	31.141	32.180	33.168	34.297
73	29.560	29.769	29.931	30.485	31.550	32.508	33.637
74	28.998	29.096	29.287	29.837	30.868	31.826	32.955
75	28.393	28.525	28.670	29.253	30.246	31.170	32.269
76	27.771	27.865	28.061	28.580	29.603	30.527	31.588
77	27.157	27.251	27.422	27.975	28.925	29.884	30.945
78	26.570	26.629	26.834	27.353	28.333	29.258	30.323
79	25.969	26.092	26.259	26.778	27.686	28.648	29.679
80	25.436	25.488	25.637	26.156	27.094	28.022	29.121
81	24.912	24.895	25.066	25.551	26.484	27.417	28.516
82	24.333	24.354	24.495	24.985	25.914	26.812	27.839
83	23.741	23.860	23.941	24.397	25.321	26.186	27.251
84	23.255	23.272	23.409	23.826	24.785	25.649	26.612
85	22.719	22.731	22.889	23.311	24.197	25.062	26.054
86	22.271	22.246	22.386	22.808	23.656	24.521	25.483
87	21.986	21.786	21.922	22.310	23.119	23.950	24.947
88	21.568	21.402	21.445	21.828	22.633	23.434	24.397
89	21.074	20.938	21.044	21.364	22.131	22.966	23.894
90	21.040	20.593	20.695	20.912	21.641	22.442	23.370
91	21.040	20.593	20.414	20.525	21.215	21.982	22.944
92	21.040	20.593	20.371	20.410	20.959	21.692	22.689

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CANDELA TABULATION - (Cont.)

93	21.040	20.593	20.371	20.376	20.921	21.654	22.621
94	21.040	20.593	20.337	20.337	20.887	21.581	22.582
95	21.040	20.593	20.269	20.337	20.853	21.547	22.548
96	21.040	20.593	20.265	20.269	20.780	21.479	22.442
97	21.040	20.593	20.265	20.197	20.746	21.441	22.369
98	21.040	20.593	20.231	20.197	20.746	21.372	22.335
99	21.040	20.593	20.231	20.128	20.674	21.334	22.267
100	21.040	20.593	20.158	20.124	20.674	21.334	22.195
101	21.040	20.593	20.158	20.090	20.640	21.300	22.161
102	21.044	20.593	20.192	20.090	20.567	21.193	22.088
103	21.113	20.593	20.124	20.090	20.533	21.193	22.088
104	21.078	20.593	20.158	20.090	20.533	21.125	21.986
105	21.078	20.593	20.124	20.090	20.495	21.121	21.982
106	21.040	20.593	20.124	20.124	20.495	21.053	21.913
107	21.044	20.593	20.124	20.056	20.533	21.087	21.913
108	21.078	20.627	20.124	20.090	20.499	21.019	21.841
109	21.044	20.627	20.124	20.056	20.461	21.019	21.807
110	21.113	20.627	20.124	20.056	20.427	20.946	21.769
111	21.113	20.631	20.124	20.056	20.461	20.946	21.735
112	21.113	20.699	20.124	20.056	20.427	20.874	21.700
113	21.147	20.699	20.124	20.056	20.393	20.908	21.700
114	21.113	20.699	20.124	20.056	20.388	20.840	21.666
115	21.185	20.733	20.124	20.056	20.388	20.874	21.594
116	21.219	20.733	20.124	20.056	20.388	20.840	21.594
117	21.219	20.806	20.124	20.056	20.388	20.806	21.526
118	21.219	20.772	20.124	20.056	20.388	20.840	21.522
119	21.253	20.806	20.124	20.056	20.427	20.772	21.522
120	21.219	20.806	20.124	20.056	20.320	20.772	21.522
121	21.287	20.874	20.124	20.056	20.354	20.772	21.453
122	21.253	20.840	20.124	20.056	20.320	20.772	21.419
123	21.287	20.912	20.124	20.056	20.320	20.772	21.419
124	21.326	20.946	20.124	20.056	20.320	20.772	21.381
125	21.360	20.912	20.158	20.056	20.320	20.772	21.381
126	21.394	21.019	19.950	20.056	20.320	20.772	21.381
127	21.428	21.053	19.915	20.056	20.320	20.806	21.381
128	21.466	21.053	19.911	20.056	20.320	20.346	21.381
129	21.500	21.125	20.359	20.056	20.320	20.346	21.381
130	21.534	21.193	20.508	20.090	20.320	20.278	21.381
131	21.607	21.266	20.478	20.090	20.388	20.414	21.381
132	21.641	21.300	20.478	20.265	20.529	20.486	21.381
133	21.675	21.300	20.478	20.371	20.567	20.593	21.381
134	21.713	21.372	20.512	20.405	20.533	20.593	21.381
135	21.786	21.406	20.512	20.410	20.533	20.733	21.381
136	21.854	21.441	20.546	20.444	20.567	21.049	21.381
137	21.820	21.479	20.614	20.444	20.601	21.121	21.381
138	21.854	21.547	20.959	20.546	20.738	21.155	21.449
139	21.888	21.619	21.040	20.618	20.814	21.159	21.453
140	21.960	21.654	21.040	21.002	20.921	21.159	21.522
141	21.994	21.726	21.040	21.074	21.096	21.159	21.594
142	22.067	21.760	21.040	21.074	21.134	21.159	21.628
143	22.135	21.794	21.040	21.074	21.134	21.159	21.628
144	22.169	21.867	21.040	21.074	21.134	21.159	21.662
145	22.241	21.901	21.040	21.074	21.134	21.159	21.628
146	22.382	21.973	21.040	21.074	21.134	21.159	21.628
147	22.382	22.007	21.176	21.074	21.134	21.159	21.628
148	22.450	22.114	21.215	21.113	21.168	21.193	21.628

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CANDELA TABULATION - (Cont.)

149	22.420	22.182	21.321	21.113	21.168	21.262	21.628
150	22.523	22.220	21.560	21.147	21.236	21.300	21.628
151	22.591	22.220	21.568	21.181	21.274	21.543	21.666
152	22.595	22.254	21.568	21.394	21.347	21.581	21.666
153	22.697	22.327	21.568	21.496	21.624	21.581	21.735
154	22.697	22.361	21.602	21.500	21.594	21.581	21.841
155	22.770	22.361	21.602	21.500	21.594	21.649	22.011
156	22.736	22.361	21.602	21.500	21.628	21.688	22.122
157	22.731	22.361	21.743	21.500	21.662	21.722	22.088
158	22.697	22.361	21.922	21.568	21.700	21.760	22.156
159	22.697	22.361	21.956	21.637	21.700	21.794	22.126
160	22.697	22.361	21.956	21.607	21.769	21.862	22.122
161	22.731	22.361	21.990	21.602	21.807	22.182	22.156
162	22.663	22.361	21.990	21.675	21.841	22.182	22.161
163	22.663	22.361	21.990	21.743	22.152	22.250	22.229
164	22.663	22.361	22.097	21.918	22.263	22.220	22.297
165	22.663	22.361	22.165	21.990	22.267	22.216	22.403
166	22.629	22.391	22.135	22.024	22.267	22.250	22.782
167	22.591	22.216	22.135	22.063	22.301	22.254	22.757
168	21.841	21.713	21.960	21.926	22.131	22.220	22.416
169	21.091	21.036	21.402	21.326	21.564	21.658	21.739
170	20.329	20.367	20.738	20.597	20.827	20.887	20.972
171	19.613	19.477	19.992	19.881	20.150	20.099	20.188
172	18.816	18.718	19.230	19.153	19.272	19.268	19.387
173	18.139	17.901	18.493	18.459	18.535	18.497	18.552
174	16.976	16.976	17.636	17.577	17.679	17.645	17.730
175	16.499	16.465	16.814	16.755	16.814	16.784	16.836
176	16.814	16.746	16.499	16.405	16.367	16.294	16.418
177	17.526	17.385	16.985	17.061	16.882	16.810	16.968
178	18.267	18.131	17.918	17.854	18.024	17.777	17.794
179	18.753	18.723	18.761	18.791	18.795	18.718	18.484
180	19.170	19.170	19.170	19.170	19.170	19.170	19.170

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	23.59	5.00	5.90
0-30	50.79	10.70	12.70
0-40	84.95	17.90	21.30
0-60	161.96	34.10	40.60
0-80	231.81	48.80	58.20
0-90	259.29	54.60	65.10
10-90	253.23	53.30	63.60
20-40	61.36	12.90	15.40
20-50	99.42	20.90	25.00
40-70	114.07	24.00	28.60
60-80	69.84	14.70	17.50
70-80	32.78	6.90	8.20
80-90	27.48	5.80	6.90
90-110	48.15	10.10	12.10
90-120	69.96	14.70	17.60
90-130	89.58	18.90	22.50
90-150	120.60	25.40	30.30
90-180	139.17	29.30	34.90
110-180	91.03	19.20	22.80
0-180	398.46	83.90	100.00

Total Luminaire Efficiency = 83.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.06
10-20	17.53
20-30	27.20
30-40	34.16
40-50	38.06
50-60	38.95
60-70	37.06
70-80	32.78
80-90	27.48
90-100	24.66
100-110	23.49
110-120	21.81
120-130	19.62
130-140	17.03
140-150	13.98
150-160	10.43
160-170	6.38
170-180	1.77

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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	93	93	93	93	87	87	87	87	77	77	77	67	67	67	59	59	59	55
1	82	77	73	69	77	73	69	65	64	61	58	55	53	51	48	46	44	40
2	74	66	60	54	69	62	56	51	54	50	46	47	44	40	40	38	35	32
3	67	57	50	44	62	54	47	42	47	42	37	41	37	33	35	32	29	26
4	61	50	43	37	57	47	40	35	41	36	31	36	31	28	31	27	24	22
5	56	45	37	31	52	42	35	30	37	31	27	32	27	24	28	24	21	18
6	51	40	32	27	48	37	31	25	33	27	23	29	24	20	25	21	18	16
7	47	36	28	23	44	34	27	22	30	24	20	26	21	18	23	19	16	14
8	44	32	25	20	41	31	24	20	27	22	18	24	19	16	21	17	14	12
9	41	30	23	18	38	28	22	17	25	20	16	22	17	14	19	15	13	11
10	38	27	21	16	36	26	20	16	23	18	14	20	16	13	18	14	11	10

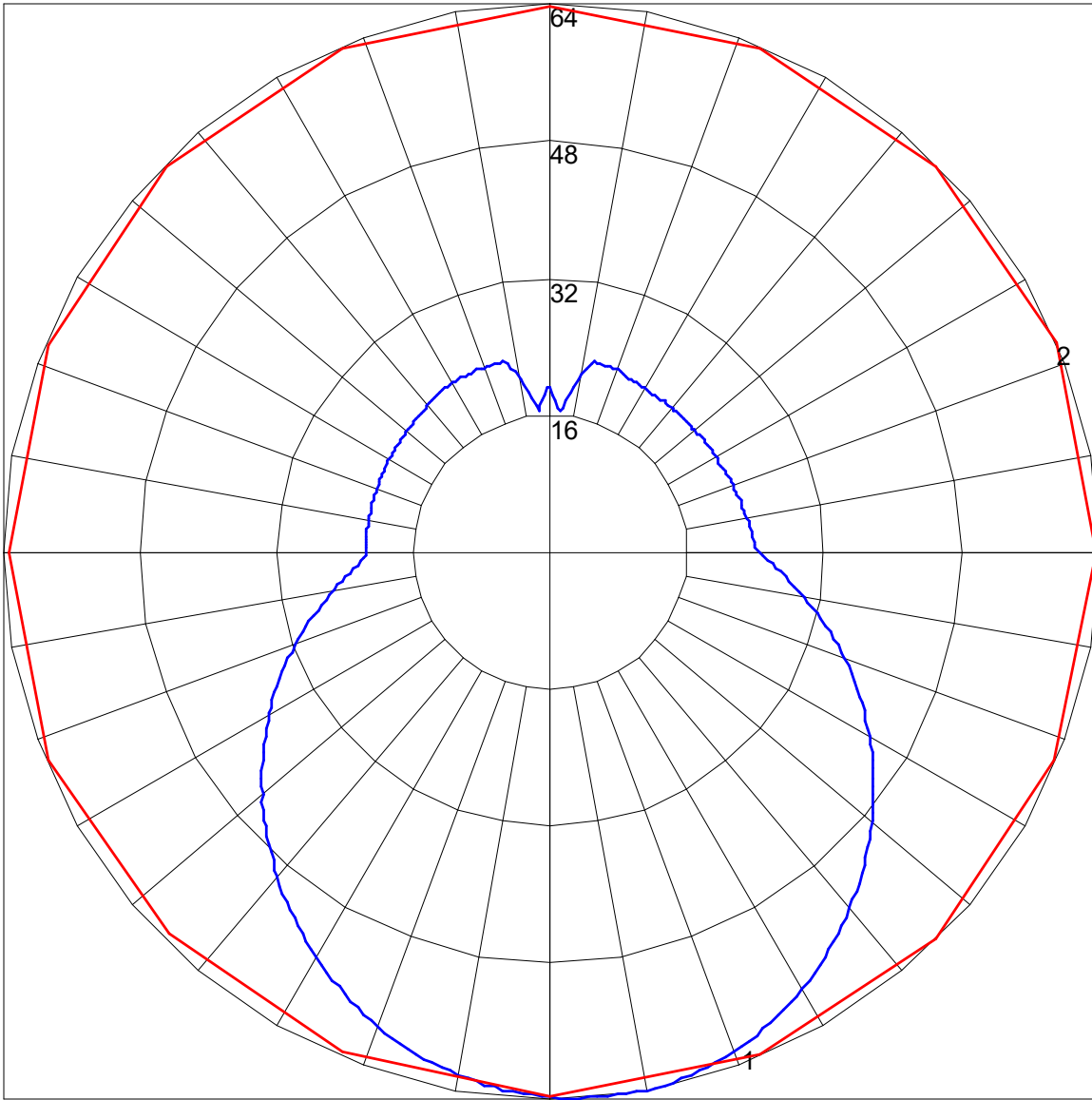
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UGR TABLE - CORRECTED

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	5.7	6.8	6.5	7.6	8.7	5.8	7.0	6.6	7.8	8.8
	3H	8.5	9.5	9.3	10.4	11.4	8.7	9.7	9.5	10.6	11.6
	4H	9.9	10.9	10.7	11.7	12.8	10.1	11.1	11.0	12.0	13.0
	6H	11.5	12.4	12.3	13.2	14.3	11.7	12.6	12.5	13.5	14.5
	8H	12.3	13.2	13.1	14.0	15.1	12.5	13.4	13.4	14.3	15.4
	12H	13.2	14.1	14.1	14.9	16.0	13.5	14.4	14.4	15.2	16.3
4H	2H	6.5	7.5	7.3	8.4	9.4	6.7	7.7	7.5	8.5	9.6
	3H	9.6	10.4	10.4	11.3	12.4	9.8	10.6	10.6	11.5	12.6
	4H	11.2	12.0	12.0	12.9	14.0	11.4	12.2	12.2	13.1	14.2
	6H	12.9	13.6	13.8	14.5	15.6	13.2	13.9	14.0	14.8	15.9
	8H	13.9	14.5	14.7	15.4	16.5	14.1	14.8	15.0	15.7	16.8
	12H	14.9	15.5	15.8	16.4	17.6	15.2	15.8	16.1	16.7	17.9
8H	4H	11.8	12.5	12.7	13.4	14.5	12.0	12.7	12.9	13.6	14.7
	6H	13.8	14.4	14.7	15.3	16.4	14.0	14.6	14.9	15.5	16.7
	8H	15.0	15.5	15.9	16.4	17.5	15.2	15.7	16.1	16.6	17.8
	12H	16.3	16.7	17.2	17.6	18.8	16.5	17.0	17.5	17.9	19.1
12H	4H	12.0	12.6	12.9	13.5	14.6	12.2	12.8	13.1	13.7	14.8
	6H	14.1	14.6	15.0	15.5	16.7	14.3	14.8	15.2	15.7	16.9
	8H	15.3	15.8	16.3	16.7	17.9	15.6	16.0	16.5	17.0	18.1

Maximum UGR = 19.1

POLAR GRAPH



Maximum Candela = 64.147 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.)