



The Perfect Lighting Choice.™

visit us at www.JDG.com

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-8814-MROR-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
[LUMCAT] FSN-8814-MROR-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	370
Total Luminaire Efficiency	78 %
Luminaire Efficacy Rating (LER)	41
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	340	349	346
55	372	385	381
65	434	453	449
75	590	620	616
85	1415	1501	1507

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

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	59.396	59.396	59.396	59.396	59.396	59.396	59.396	59.396	59.396	59.396
1	59.527	59.594	59.400	59.527	59.428	59.364	59.428	59.265	59.166	59.297
2	59.531	59.630	59.400	59.499	59.396	59.364	59.329	59.135	58.972	59.234
3	59.562	59.630	59.400	59.499	59.396	59.364	59.297	59.067	58.941	59.135
4	59.598	59.630	59.400	59.499	59.364	59.364	59.261	59.004	58.909	59.036
5	59.531	59.630	59.400	59.499	59.364	59.257	59.166	58.972	58.929	58.929
6	59.531	59.630	59.400	59.499	59.364	58.972	59.099	58.972	58.549	58.640
7	59.436	59.630	59.400	59.499	59.396	58.905	59.036	58.937	58.450	58.541
8	59.400	59.630	59.400	59.531	59.356	58.774	59.063	58.572	58.374	58.307
9	59.305	59.630	59.400	59.531	59.099	58.743	58.869	58.414	58.117	58.113
10	59.206	59.630	59.432	59.562	58.968	58.711	58.671	58.442	57.860	57.978
11	59.139	59.598	59.467	59.531	58.873	58.699	58.541	58.046	57.812	57.681
12	58.980	59.467	59.341	59.436	58.842	58.351	58.473	57.856	57.464	57.456
13	58.814	59.337	59.238	59.337	58.869	58.252	58.208	57.721	57.329	57.222
14	58.679	59.170	59.107	59.202	58.707	58.220	57.982	57.428	57.072	56.929
15	58.485	59.008	58.945	59.012	58.378	58.050	57.844	57.357	56.771	56.632
16	58.220	58.842	58.778	58.909	58.279	57.693	57.551	56.929	56.474	56.394
17	58.089	58.644	58.648	58.711	58.184	57.630	57.388	56.739	56.204	56.074
18	57.832	58.450	58.422	58.517	57.856	57.270	57.091	56.375	55.856	55.804
19	57.594	58.216	58.220	58.315	57.753	57.163	56.921	56.240	55.781	55.408
20	57.309	58.018	57.998	58.125	57.428	56.778	56.533	55.880	55.226	55.084
21	57.075	57.757	57.768	57.860	57.163	56.604	56.386	55.583	54.866	54.747
22	56.755	57.491	57.503	57.626	56.937	56.256	55.939	55.321	54.608	54.327
23	56.517	57.266	57.242	57.369	56.707	56.058	55.610	54.798	54.181	53.999
24	56.157	56.933	57.012	57.072	56.410	55.666	55.305	54.498	53.781	53.662
25	56.089	56.640	56.691	56.782	56.149	55.594	54.949	54.201	53.488	53.270
26	55.796	56.307	56.422	56.481	55.824	55.040	54.680	53.709	53.060	52.775
27	55.531	56.010	56.093	56.153	55.725	54.719	54.264	53.325	52.577	52.387
28	55.147	55.658	55.741	55.828	55.198	54.482	53.892	53.179	52.173	51.951
29	54.751	55.293	55.440	55.693	54.996	54.022	53.496	52.557	51.777	51.587
30	54.090	54.957	55.080	55.495	54.608	53.702	53.203	52.165	51.389	51.163
31	53.702	54.569	54.692	55.107	54.141	53.337	52.672	51.670	50.985	50.633
32	53.333	54.169	54.323	54.707	53.725	52.917	52.284	51.223	50.442	50.149
33	52.854	53.749	53.939	54.319	53.401	52.462	51.856	51.120	49.983	49.718
34	52.454	53.385	53.547	53.670	53.096	52.058	51.425	50.458	49.548	49.215
35	52.023	52.949	53.143	53.230	52.577	51.611	51.064	50.035	49.060	48.732
36	51.563	52.521	52.696	52.779	52.149	51.242	50.502	49.437	48.565	48.360
37	51.143	52.066	52.300	52.411	51.892	50.795	50.050	48.957	48.114	47.781
38	50.656	51.615	51.848	51.927	51.333	50.332	49.587	48.494	47.587	47.350
39	50.225	51.151	51.417	51.496	50.993	49.833	49.116	47.987	47.152	46.875
40	49.726	50.680	50.949	50.997	50.379	49.381	48.593	47.472	46.728	46.261
41	49.243	50.229	50.502	50.577	49.920	48.922	48.134	46.977	46.205	45.829
42	48.748	49.761	50.003	50.114	49.488	48.459	47.635	46.482	45.647	45.271
43	48.253	49.298	49.544	49.619	48.942	47.944	47.116	45.964	45.160	44.815
44	47.706	48.815	49.029	49.136	48.486	47.425	46.593	45.441	44.704	44.293
45	47.199	48.245	48.526	48.633	47.991	46.934	46.098	44.914	44.079	43.730
46	46.688	47.734	48.047	48.185	47.496	46.534	45.595	44.384	43.611	43.168
47	46.158	47.231	47.484	47.623	47.013	45.987	45.049	43.932	43.065	42.780
48	45.627	46.696	47.017	47.152	46.550	45.556	44.550	43.370	42.602	42.083
49	45.081	46.182	46.506	46.609	46.051	44.926	44.051	42.835	41.976	41.679
50	44.582	45.651	45.944	46.110	45.504	44.479	43.663	42.289	41.620	41.034
51	44.051	45.116	45.445	45.576	44.974	43.920	43.002	41.794	40.863	40.566
52	43.501	44.601	44.898	45.029	44.479	43.520	42.471	41.232	40.432	39.941
53	42.942	44.071	44.403	44.534	43.964	42.843	41.885	40.713	39.976	39.418

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

CANDELA TABULATION - (Cont.)

54	42.396	43.493	43.889	44.015	43.461	42.467	41.477	40.174	39.307	38.753
55	41.861	43.017	43.326	43.453	42.918	41.758	40.820	39.612	38.669	38.281
56	41.295	42.356	42.792	42.887	42.420	41.469	40.273	39.038	38.139	37.640
57	40.681	41.802	42.146	42.305	41.794	40.681	39.743	38.507	37.545	37.046
58	40.123	41.239	41.651	41.774	41.275	40.226	39.156	37.953	37.026	36.523
59	39.556	40.641	41.053	41.176	40.677	39.663	38.622	37.386	36.428	35.921
60	38.978	40.095	40.511	40.602	40.119	39.069	38.087	36.828	35.866	35.359
61	38.412	39.497	39.913	40.032	39.572	38.463	37.481	36.345	35.323	34.816
62	37.818	38.931	39.335	39.453	39.006	37.893	36.943	35.711	34.721	34.341
63	37.240	38.317	38.772	38.856	38.424	37.311	36.388	35.193	34.203	33.692
64	36.670	37.747	38.190	38.273	37.866	36.753	35.893	34.828	33.612	33.292
65	36.064	37.137	37.600	37.711	37.303	36.258	35.391	34.100	33.240	32.603
66	35.497	36.697	36.998	37.113	36.788	35.616	34.749	33.391	32.531	32.215
67	34.915	36.020	36.384	36.499	36.222	35.145	34.302	32.856	32.032	31.446
68	34.286	35.355	35.787	35.901	35.513	34.472	33.462	32.242	31.419	30.833
69	33.692	34.757	35.196	35.303	34.979	34.131	32.896	31.640	30.753	30.231
70	33.082	34.143	34.583	34.694	34.412	33.280	32.298	31.082	30.159	29.637
71	32.480	33.573	33.985	34.092	33.723	32.686	31.704	30.603	29.553	29.058
72	31.882	32.943	33.355	33.494	33.110	32.040	31.145	29.993	28.944	28.484
73	31.268	32.325	32.741	32.844	32.591	31.518	30.500	29.375	28.362	27.997
74	30.635	31.656	32.108	32.246	32.028	30.837	30.064	28.690	27.803	27.403
75	29.997	31.015	31.502	31.605	31.335	30.306	29.272	28.124	27.245	26.774
76	29.363	30.417	30.840	31.007	30.627	29.629	28.623	27.510	26.663	26.124
77	28.765	29.815	30.243	30.377	30.029	28.995	28.053	26.940	26.283	25.586
78	28.187	29.201	29.664	29.795	29.447	28.417	27.506	26.362	25.483	25.039
79	27.589	28.599	29.031	29.193	28.857	27.827	26.940	25.831	24.952	24.473
80	27.071	27.985	28.421	28.579	28.421	27.332	26.409	25.304	24.421	23.942
81	26.508	27.419	27.859	28.080	27.839	26.778	25.890	24.782	23.903	23.455
82	25.879	26.853	27.292	27.486	27.245	26.263	25.403	24.299	23.503	22.936
83	25.332	26.275	26.778	26.968	26.833	25.760	24.897	23.827	23.047	22.497
84	24.738	25.740	26.215	26.500	26.334	25.281	24.413	23.376	22.627	22.014
85	24.219	25.225	25.704	25.958	25.795	24.809	23.974	23.099	22.156	21.701
86	23.689	24.655	25.201	25.392	25.186	24.326	23.491	22.647	21.606	21.087
87	23.190	24.156	24.675	24.924	24.758	23.871	23.126	22.152	21.186	20.758
88	22.679	23.645	24.164	24.445	24.207	23.582	22.837	21.705	21.154	20.370
89	22.212	23.174	23.693	24.009	23.752	23.190	22.837	21.705	20.925	20.204
90	21.725	22.715	23.241	23.744	23.752	23.158	22.766	21.673	20.794	20.172
91	21.329	22.323	23.103	23.677	23.720	23.158	22.608	21.673	20.695	20.172
92	21.091	22.247	23.035	23.578	23.752	23.126	22.568	21.673	20.632	20.172
93	21.028	22.148	22.936	23.511	23.617	23.122	22.410	21.669	20.632	20.172
94	20.992	22.113	22.901	23.412	23.356	22.893	22.342	21.637	20.632	20.172
95	20.960	22.018	22.806	23.348	23.261	22.798	22.243	21.507	20.632	20.172
96	20.861	21.982	22.707	23.281	23.229	22.730	22.243	21.408	20.632	20.141
97	20.794	21.919	22.639	23.214	23.194	22.667	22.212	21.408	20.632	20.141
98	20.762	21.788	22.544	23.087	23.198	22.699	22.212	21.372	20.632	20.141
99	20.699	21.784	22.477	23.051	23.225	22.667	22.212	21.309	20.632	20.141
100	20.632	21.653	22.410	22.984	23.154	22.667	22.180	21.210	20.632	20.141
101	20.600	21.590	22.378	22.889	22.865	22.699	22.144	21.178	20.632	20.141
102	20.533	21.586	22.247	22.853	22.802	22.663	22.014	21.178	20.632	20.141
103	20.533	21.491	22.247	22.722	22.703	22.469	21.915	21.146	20.632	20.141
104	20.438	21.455	22.184	22.691	22.671	22.338	21.883	21.146	20.632	20.141
105	20.434	21.424	22.085	22.623	22.639	22.307	21.851	21.146	20.632	20.141
106	20.370	21.392	22.049	22.560	22.671	22.144	21.784	21.146	20.632	20.141
107	20.370	21.293	21.954	22.524	22.604	22.109	21.752	21.146	20.632	20.141
108	20.303	21.226	21.919	22.461	22.509	22.109	21.717	21.146	20.632	20.141
109	20.271	21.226	21.855	22.394	22.441	22.109	21.717	21.146	20.632	20.141

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

CANDELA TABULATION - (Cont.)

110	20.236	21.194	21.820	22.330	22.311	22.109	21.717	21.146	20.632	20.141
111	20.204	21.095	21.756	22.263	22.243	22.109	21.717	21.146	20.632	20.172
112	20.172	21.059	21.721	22.196	22.144	22.077	21.717	21.146	20.632	20.204
113	20.172	21.028	21.657	22.164	22.113	21.978	21.717	21.146	20.632	20.172
114	20.141	20.964	21.558	22.065	22.081	21.911	21.685	21.146	20.632	20.172
115	20.073	20.929	21.527	22.065	22.081	21.752	21.653	21.146	20.632	20.172
116	20.073	20.897	21.459	22.002	22.113	21.752	21.685	21.146	20.632	20.172
117	20.010	20.865	21.428	21.934	21.982	21.653	21.618	21.146	20.632	20.240
118	20.006	20.798	21.364	21.903	21.883	21.653	21.586	21.146	20.663	20.240
119	20.006	20.830	21.360	21.835	21.784	21.653	21.586	21.146	20.663	20.271
120	20.006	20.766	21.297	21.804	21.721	21.653	21.586	21.146	20.695	20.271
121	19.943	20.699	21.265	21.736	21.689	21.653	21.586	21.146	20.695	20.303
122	19.911	20.667	21.198	21.705	21.689	21.653	21.586	21.146	20.695	20.303
123	19.911	20.667	21.198	21.641	21.689	21.653	21.586	21.210	20.731	20.303
124	19.875	20.632	21.166	21.606	21.689	21.653	21.586	21.178	20.731	20.339
125	19.875	20.600	21.135	21.606	21.689	21.653	21.586	21.210	20.731	20.370
126	19.875	20.632	21.067	21.574	21.689	21.653	21.622	21.210	20.731	20.370
127	19.875	20.568	21.099	21.511	21.689	21.653	21.653	21.210	20.762	20.402
128	19.875	20.600	21.067	21.538	21.689	21.685	21.622	21.245	20.794	20.469
129	19.875	20.537	21.067	21.507	21.689	21.622	21.622	21.245	20.830	20.469
130	19.875	20.568	21.004	21.507	21.689	21.622	21.622	21.245	20.830	20.533
131	19.875	20.501	20.576	21.507	21.689	21.622	21.622	21.309	20.893	20.568
132	19.875	20.501	20.544	21.507	21.689	21.622	21.622	21.309	20.925	20.600
133	19.875	20.501	20.576	21.443	21.689	21.622	21.622	21.309	20.925	20.632
134	19.875	20.501	20.671	21.380	21.689	21.622	21.685	21.344	20.960	20.636
135	19.875	20.501	20.643	21.344	21.689	21.622	21.653	21.376	20.960	20.667
136	19.875	20.501	20.675	21.309	21.689	21.622	21.653	21.408	20.992	20.699
137	19.875	20.501	20.675	21.309	21.689	21.622	21.653	21.376	21.024	20.703
138	19.939	20.501	20.675	21.309	21.689	21.622	21.653	21.376	21.059	20.766
139	19.943	20.501	20.675	21.309	21.689	21.622	21.653	21.376	21.091	20.798
140	20.006	20.568	20.675	21.309	21.689	21.622	21.653	21.376	21.123	20.865
141	20.073	20.537	20.675	21.309	21.689	21.622	21.653	21.376	21.123	20.929
142	20.105	20.533	20.675	21.309	21.689	21.622	21.653	21.376	21.222	20.964
143	20.105	20.533	20.675	21.309	21.689	21.622	21.653	21.376	21.222	20.996
144	20.137	20.533	20.675	21.309	21.689	21.622	21.685	21.376	21.285	21.095
145	20.105	20.533	20.675	21.309	21.689	21.622	21.685	21.408	21.285	21.158
146	20.105	20.533	20.675	21.309	21.689	21.622	21.717	21.408	21.321	21.162
147	20.105	20.533	20.675	21.309	21.689	21.622	21.721	21.443	21.321	21.226
148	20.105	20.568	20.707	21.309	21.689	21.622	21.752	21.507	21.352	21.226
149	20.105	20.600	20.707	21.309	21.689	21.622	21.784	21.507	21.352	21.261
150	20.105	20.600	20.707	21.309	21.689	21.622	21.784	21.542	21.420	21.325
151	20.141	20.667	20.739	21.309	21.689	21.622	21.784	21.574	21.420	21.293
152	20.141	20.667	20.739	21.309	21.721	21.622	21.816	21.641	21.483	21.388
153	20.204	20.667	20.901	21.309	21.657	21.622	21.752	21.705	21.483	21.356
154	20.303	20.699	20.968	21.309	21.689	21.653	21.752	21.705	21.519	21.356
155	20.461	20.699	21.032	21.309	21.622	21.586	21.752	21.736	21.582	21.356
156	20.564	20.731	21.099	21.309	21.622	21.586	21.752	21.705	21.614	21.356
157	20.533	20.830	21.067	21.309	21.622	21.586	21.752	21.768	21.582	21.356
158	20.596	20.960	21.067	21.309	21.622	21.586	21.752	21.736	21.582	21.356
159	20.568	21.059	21.067	21.309	21.622	21.618	21.752	21.736	21.582	21.356
160	20.564	21.127	21.067	21.309	21.622	21.586	21.752	21.736	21.582	21.356
161	20.596	21.127	21.067	21.309	21.657	21.653	21.752	21.736	21.582	21.356
162	20.600	21.127	21.067	21.309	21.657	21.622	21.784	21.705	21.582	21.356
163	20.663	21.127	21.067	21.309	21.689	21.622	21.717	21.669	21.582	21.356
164	20.727	21.158	21.067	21.309	21.752	21.622	21.717	21.637	21.550	21.356
165	20.826	21.158	21.067	21.309	21.653	21.618	21.717	21.637	21.582	21.356

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

CANDELA TABULATION - (Cont.)

166	21.178	21.190	21.067	21.309	21.554	21.483	21.681	21.661	21.348	21.321
167	21.154	21.257	21.099	21.344	21.123	21.127	21.289	21.210	21.055	21.059
168	20.838	20.964	20.877	20.984	20.703	20.663	20.754	20.679	20.493	20.525
169	20.208	20.346	20.251	20.402	20.077	20.061	20.089	19.943	19.820	19.883
170	19.495	19.630	19.475	19.669	19.424	19.356	19.404	19.166	19.016	19.079
171	18.766	18.897	18.782	18.885	18.636	18.687	18.604	18.434	18.315	18.473
172	18.022	18.153	18.069	18.161	17.911	17.820	17.899	17.598	17.511	17.606
173	17.246	17.369	17.325	17.317	16.961	17.000	17.008	16.870	16.687	16.806
174	16.482	16.668	16.497	16.521	16.054	16.113	16.113	15.951	15.769	15.884
175	15.650	15.697	15.602	15.662	15.630	15.606	15.670	15.634	15.488	15.472
176	15.262	15.440	15.373	15.337	15.994	15.868	16.030	15.963	15.848	15.832
177	15.773	15.761	15.757	15.955	16.648	16.557	16.691	16.687	16.573	16.525
178	16.541	16.541	16.367	16.446	17.468	17.345	17.420	17.412	17.325	17.218
179	17.182	17.064	16.937	17.040	18.085	17.923	18.066	17.959	17.907	17.800
180	17.820	17.820	17.820	17.820	17.820	17.820	17.820	17.820	17.820	17.820

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	59.396	59.396	59.396	59.396	59.396	59.396	59.396
1	59.135	59.202	59.364	59.301	59.495	59.463	59.527
2	58.941	59.071	59.265	59.265	59.463	59.531	59.531
3	58.810	58.972	59.166	59.139	59.463	59.499	59.562
4	58.842	58.968	59.103	59.008	59.463	59.531	59.598
5	58.703	58.739	58.941	58.972	59.463	59.499	59.531
6	58.351	58.545	58.774	58.778	59.364	59.368	59.531
7	58.315	58.481	58.612	58.648	59.234	59.333	59.436
8	58.018	58.402	58.450	58.418	59.103	59.234	59.400
9	57.796	57.923	58.256	58.319	58.941	59.139	59.305
10	57.725	57.883	58.026	58.125	58.806	58.976	59.206
11	57.365	57.491	57.796	57.959	58.608	58.842	59.139
12	57.238	57.329	57.570	57.705	58.418	58.683	58.980
13	56.937	57.032	57.273	57.440	58.248	58.517	58.814
14	56.648	56.838	57.040	57.242	58.014	58.283	58.679
15	56.351	56.474	56.751	56.953	57.757	58.089	58.485
16	56.145	56.299	56.481	56.683	57.523	57.856	58.220
17	55.721	55.880	56.121	56.430	57.258	57.634	58.089
18	55.495	55.713	55.832	56.101	56.969	57.369	57.832
19	55.194	55.222	55.499	55.800	56.668	57.099	57.594
20	54.711	54.897	55.171	55.484	56.335	56.814	57.309
21	54.379	54.529	54.913	55.282	56.046	56.545	57.075
22	54.153	54.145	54.450	55.080	55.678	56.248	56.755
23	53.599	53.785	54.030	54.727	55.389	55.891	56.517
24	53.238	53.385	53.634	54.363	55.024	55.559	56.157
25	53.064	53.119	53.313	53.947	54.668	55.206	56.089
26	52.446	52.561	52.882	53.290	54.236	54.901	55.796
27	51.995	52.173	52.454	52.862	53.872	54.509	55.531
28	51.559	51.737	51.971	52.411	53.515	54.090	55.147
29	51.104	51.310	51.575	52.046	53.056	53.757	54.751
30	50.874	50.922	51.143	51.579	52.620	53.357	54.090
31	50.280	50.522	50.692	51.132	52.201	52.906	53.702
32	49.860	50.003	50.229	50.668	51.733	52.506	53.333
33	49.274	49.480	49.714	50.189	51.282	52.023	52.854
34	48.870	49.013	49.219	49.757	50.819	51.627	52.454
35	48.320	48.526	48.752	49.262	50.383	51.159	52.023
36	47.857	48.027	48.272	48.752	49.900	50.743	51.563

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

CANDELA TABULATION - (Cont.)

37	47.342	47.544	47.742	48.284	49.401	50.244	51.143
38	46.847	47.017	47.255	47.801	48.882	49.761	50.656
39	46.312	46.514	46.732	47.274	48.415	49.262	50.225
40	45.793	45.995	46.166	46.776	47.916	48.763	49.726
41	45.302	45.532	45.683	46.229	47.397	48.280	49.243
42	44.776	44.974	45.184	45.730	46.867	47.750	48.748
43	44.261	44.419	44.693	45.207	46.340	47.255	48.253
44	43.806	43.968	44.146	44.661	45.789	46.704	47.706
45	43.247	43.635	43.608	44.190	45.283	46.201	47.199
46	42.713	42.907	43.065	43.619	44.803	45.659	46.688
47	42.166	42.423	42.503	43.085	44.237	45.124	46.158
48	41.635	41.794	42.000	42.554	43.703	44.657	45.627
49	41.105	41.291	41.430	41.980	43.124	44.083	45.081
50	40.527	40.681	40.895	41.481	42.590	43.544	44.582
51	39.996	40.154	40.301	40.919	42.055	43.014	44.051
52	39.438	39.620	39.782	40.341	41.505	42.467	43.501
53	38.887	39.038	39.192	39.782	40.946	41.909	42.942
54	38.349	38.499	38.677	39.200	40.364	41.358	42.396
55	37.810	37.909	38.111	38.701	39.889	40.760	41.861
56	37.248	37.394	37.545	38.107	39.228	40.210	41.295
57	36.721	36.832	36.967	37.529	38.741	39.644	40.681
58	36.266	36.345	36.404	36.998	38.083	39.081	40.123
59	35.573	35.684	35.874	36.404	37.513	38.483	39.556
60	35.109	35.248	35.299	35.830	36.935	37.905	38.978
61	34.630	34.543	34.733	35.295	36.365	37.303	38.412
62	33.830	34.163	34.107	34.690	35.787	36.745	37.818
63	33.280	33.418	33.561	34.159	35.220	36.194	37.240
64	32.690	32.892	33.011	33.557	34.650	35.612	36.670
65	32.127	32.262	32.452	32.987	34.044	35.018	36.064
66	31.549	31.684	31.850	32.421	33.537	34.484	35.497
67	31.050	31.149	31.304	31.842	32.892	33.838	34.915
68	30.536	30.536	30.741	31.276	32.357	33.236	34.286
69	29.969	29.969	30.144	30.718	31.728	32.642	33.692
70	29.407	29.502	29.538	30.108	31.145	32.032	33.082
71	28.785	28.860	28.967	29.510	30.543	31.462	32.480
72	28.318	28.318	28.373	28.948	29.914	30.833	31.882
73	27.478	27.672	27.823	28.338	29.328	30.219	31.268
74	26.956	27.047	27.225	27.736	28.694	29.585	30.635
75	26.393	26.516	26.651	27.193	28.116	28.975	29.997
76	25.815	25.902	26.085	26.568	27.518	28.377	29.363
77	25.245	25.332	25.491	26.005	26.888	27.779	28.765
78	24.699	24.754	24.944	25.427	26.338	27.197	28.187
79	24.140	24.255	24.409	24.893	25.736	26.631	27.589
80	23.645	23.693	23.831	24.314	25.186	26.049	27.071
81	23.158	23.142	23.301	23.752	24.619	25.487	26.508
82	22.620	22.639	22.770	23.225	24.089	24.924	25.879
83	22.069	22.180	22.255	22.679	23.538	24.342	25.332
84	21.618	21.633	21.760	22.148	23.039	23.843	24.738
85	21.119	21.131	21.277	21.669	22.493	23.297	24.219
86	20.703	20.679	20.810	21.202	21.990	22.794	23.689
87	20.438	20.251	20.378	20.739	21.491	22.263	23.190
88	20.049	19.895	19.935	20.291	21.039	21.784	22.679
89	19.590	19.463	19.562	19.859	20.572	21.348	22.212
90	19.558	19.143	19.238	19.440	20.117	20.861	21.725
91	19.558	19.143	18.976	19.079	19.721	20.434	21.329
92	19.558	19.143	18.937	18.972	19.483	20.164	21.091

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

CANDELA TABULATION - (Cont.)

93	19.558	19.143	18.937	18.941	19.448	20.129	21.028
94	19.558	19.143	18.905	18.905	19.416	20.061	20.992
95	19.558	19.143	18.842	18.905	19.384	20.030	20.960
96	19.558	19.143	18.838	18.842	19.317	19.966	20.861
97	19.558	19.143	18.838	18.774	19.285	19.931	20.794
98	19.558	19.143	18.806	18.774	19.285	19.867	20.762
99	19.558	19.143	18.806	18.711	19.218	19.832	20.699
100	19.558	19.143	18.739	18.707	19.218	19.832	20.632
101	19.558	19.143	18.739	18.675	19.186	19.800	20.600
102	19.562	19.143	18.770	18.675	19.119	19.701	20.533
103	19.626	19.143	18.707	18.675	19.087	19.701	20.533
104	19.594	19.143	18.739	18.675	19.087	19.638	20.438
105	19.594	19.143	18.707	18.675	19.052	19.634	20.434
106	19.558	19.143	18.707	18.707	19.052	19.570	20.370
107	19.562	19.143	18.707	18.644	19.087	19.602	20.370
108	19.594	19.174	18.707	18.675	19.056	19.539	20.303
109	19.562	19.174	18.707	18.644	19.020	19.539	20.271
110	19.626	19.174	18.707	18.644	18.988	19.471	20.236
111	19.626	19.178	18.707	18.644	19.020	19.471	20.204
112	19.626	19.242	18.707	18.644	18.988	19.404	20.172
113	19.657	19.242	18.707	18.644	18.957	19.436	20.172
114	19.626	19.242	18.707	18.644	18.953	19.372	20.141
115	19.693	19.273	18.707	18.644	18.953	19.404	20.073
116	19.725	19.273	18.707	18.644	18.953	19.372	20.073
117	19.725	19.341	18.707	18.644	18.953	19.341	20.010
118	19.725	19.309	18.707	18.644	18.953	19.372	20.006
119	19.756	19.341	18.707	18.644	18.988	19.309	20.006
120	19.725	19.341	18.707	18.644	18.889	19.309	20.006
121	19.788	19.404	18.707	18.644	18.921	19.309	19.943
122	19.756	19.372	18.707	18.644	18.889	19.309	19.911
123	19.788	19.440	18.707	18.644	18.889	19.309	19.911
124	19.824	19.471	18.707	18.644	18.889	19.309	19.875
125	19.855	19.440	18.739	18.644	18.889	19.309	19.875
126	19.887	19.539	18.545	18.644	18.889	19.309	19.875
127	19.919	19.570	18.513	18.644	18.889	19.341	19.875
128	19.954	19.570	18.509	18.644	18.889	18.913	19.875
129	19.986	19.638	18.925	18.644	18.889	18.913	19.875
130	20.018	19.701	19.063	18.675	18.889	18.850	19.875
131	20.085	19.768	19.036	18.675	18.953	18.976	19.875
132	20.117	19.800	19.036	18.838	19.083	19.044	19.875
133	20.148	19.800	19.036	18.937	19.119	19.143	19.875
134	20.184	19.867	19.067	18.968	19.087	19.143	19.875
135	20.251	19.899	19.067	18.972	19.087	19.273	19.875
136	20.315	19.931	19.099	19.004	19.119	19.566	19.875
137	20.283	19.966	19.162	19.004	19.151	19.634	19.875
138	20.315	20.030	19.483	19.099	19.277	19.665	19.939
139	20.346	20.097	19.558	19.166	19.349	19.669	19.943
140	20.414	20.129	19.558	19.523	19.448	19.669	20.006
141	20.445	20.196	19.558	19.590	19.610	19.669	20.073
142	20.513	20.228	19.558	19.590	19.646	19.669	20.105
143	20.576	20.259	19.558	19.590	19.646	19.669	20.105
144	20.608	20.327	19.558	19.590	19.646	19.669	20.137
145	20.675	20.358	19.558	19.590	19.646	19.669	20.105
146	20.806	20.426	19.558	19.590	19.646	19.669	20.105
147	20.806	20.457	19.685	19.590	19.646	19.669	20.105
148	20.869	20.556	19.721	19.626	19.677	19.701	20.105

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

CANDELA TABULATION - (Cont.)

149	20.841	20.620	19.820	19.626	19.677	19.764	20.105
150	20.937	20.655	20.042	19.657	19.741	19.800	20.105
151	21.000	20.655	20.049	19.689	19.776	20.026	20.141
152	21.004	20.687	20.049	19.887	19.844	20.061	20.141
153	21.099	20.754	20.049	19.982	20.101	20.061	20.204
154	21.099	20.786	20.081	19.986	20.073	20.061	20.303
155	21.166	20.786	20.081	19.986	20.073	20.125	20.461
156	21.135	20.786	20.081	19.986	20.105	20.160	20.564
157	21.131	20.786	20.212	19.986	20.137	20.192	20.533
158	21.099	20.786	20.378	20.049	20.172	20.228	20.596
159	21.099	20.786	20.410	20.113	20.172	20.259	20.568
160	21.099	20.786	20.410	20.085	20.236	20.323	20.564
161	21.131	20.786	20.442	20.081	20.271	20.620	20.596
162	21.067	20.786	20.442	20.148	20.303	20.620	20.600
163	21.067	20.786	20.442	20.212	20.592	20.683	20.663
164	21.067	20.786	20.541	20.374	20.695	20.655	20.727
165	21.067	20.786	20.604	20.442	20.699	20.651	20.826
166	21.036	20.814	20.576	20.473	20.699	20.683	21.178
167	21.000	20.651	20.576	20.509	20.731	20.687	21.154
168	20.303	20.184	20.414	20.382	20.572	20.655	20.838
169	19.606	19.554	19.895	19.824	20.046	20.133	20.208
170	18.897	18.933	19.277	19.147	19.360	19.416	19.495
171	18.232	18.105	18.584	18.481	18.731	18.683	18.766
172	17.491	17.400	17.875	17.804	17.915	17.911	18.022
173	16.862	16.640	17.190	17.159	17.230	17.194	17.246
174	15.781	15.781	16.394	16.339	16.434	16.402	16.482
175	15.337	15.305	15.630	15.575	15.630	15.602	15.650
176	15.630	15.567	15.337	15.250	15.214	15.147	15.262
177	16.291	16.161	15.789	15.860	15.693	15.626	15.773
178	16.980	16.854	16.656	16.596	16.755	16.525	16.541
179	17.432	17.404	17.440	17.468	17.472	17.400	17.182
180	17.820	17.820	17.820	17.820	17.820	17.820	17.820

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	21.93	4.60	5.90
0-30	47.21	9.90	12.70
0-40	78.97	16.60	21.30
0-60	150.56	31.70	40.60
0-80	215.48	45.40	58.20
0-90	241.03	50.70	65.10
10-90	235.40	49.60	63.60
20-40	57.04	12.00	15.40
20-50	92.42	19.50	25.00
40-70	106.04	22.30	28.60
60-80	64.92	13.70	17.50
70-80	30.47	6.40	8.20
80-90	25.55	5.40	6.90
90-110	44.76	9.40	12.10
90-120	65.03	13.70	17.60
90-130	83.27	17.50	22.50
90-150	112.11	23.60	30.30
90-180	129.37	27.20	34.90
110-180	84.62	17.80	22.80
0-180	370.40	78.00	100.00

Total Luminaire Efficiency = 78.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.63
10-20	16.30
20-30	25.28
30-40	31.76
40-50	35.38
50-60	36.21
60-70	34.45
70-80	30.47
80-90	25.55
90-100	22.92
100-110	21.84
110-120	20.28
120-130	18.24
130-140	15.83
140-150	13.00
150-160	9.69
160-170	5.93
170-180	1.65

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

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	86	86	86	86	81	81	81	81	72	72	72	63	63	63	55	55	55	51
1	76	72	68	64	71	67	64	61	59	56	54	51	49	47	44	43	41	38
2	69	61	56	51	64	58	52	48	50	46	43	44	41	38	38	35	33	30
3	62	53	46	41	58	50	44	39	44	39	35	38	34	31	33	30	27	24
4	56	47	40	34	53	44	37	32	38	33	29	33	29	26	29	25	23	20
5	52	41	34	29	48	39	32	28	34	29	25	30	25	22	26	22	19	17
6	48	37	30	25	44	35	28	24	31	25	21	27	22	19	23	20	17	15
7	44	33	26	22	41	31	25	21	28	22	19	24	20	17	21	17	15	13
8	41	30	24	19	38	28	22	18	25	20	16	22	18	15	19	16	13	11
9	38	28	21	17	35	26	20	16	23	18	15	20	16	13	18	14	12	10
10	35	25	19	15	33	24	18	14	21	16	13	19	15	12	16	13	11	9

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

UGR TABLE - CORRECTED

Reflectances

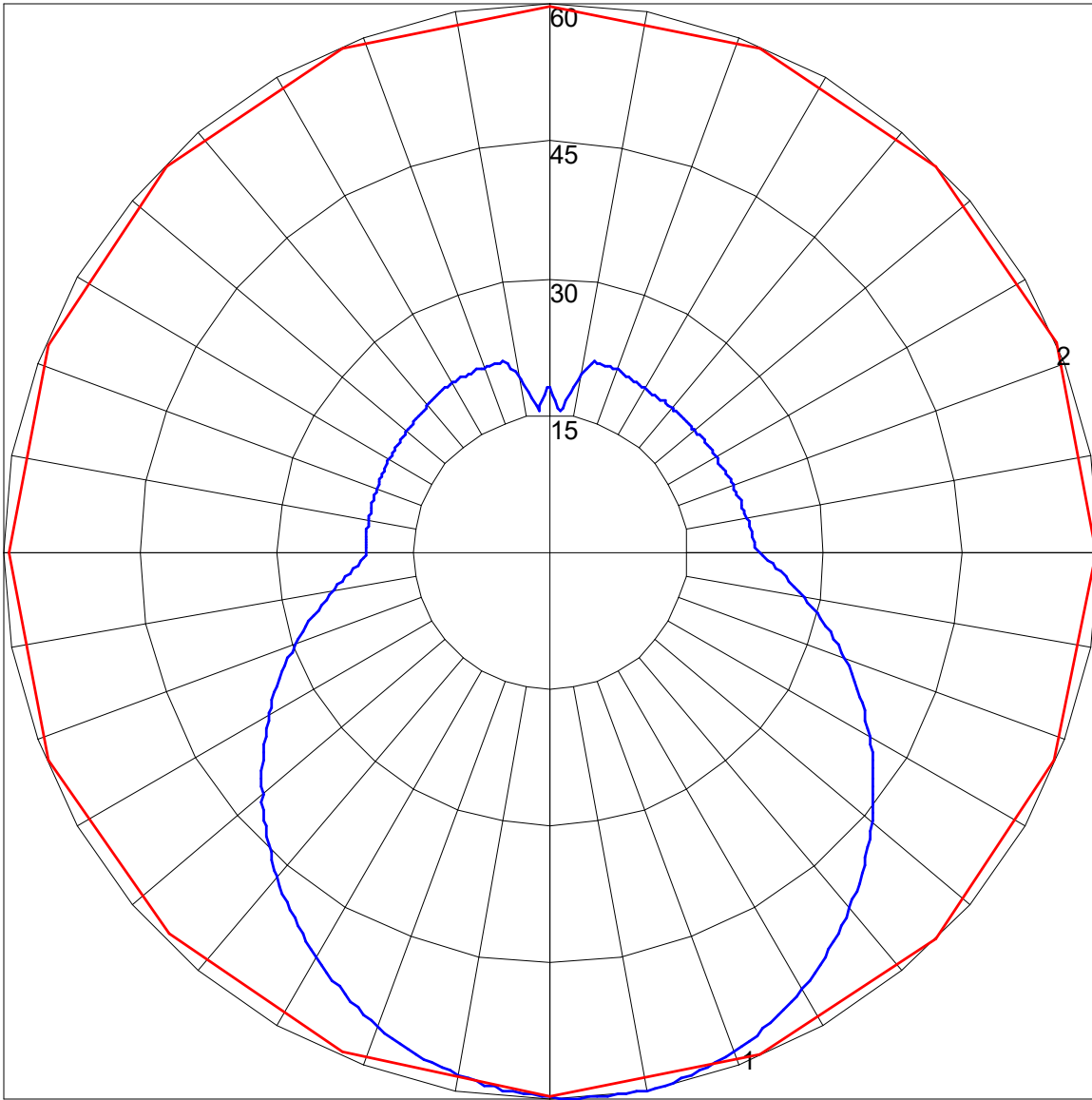
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	5.4	6.6	6.2	7.4	8.4	5.6	6.7	6.4	7.5	8.6
	3H	8.2	9.3	9.0	10.1	11.2	8.4	9.5	9.2	10.3	11.4
	4H	9.7	10.7	10.5	11.5	12.6	9.9	10.9	10.7	11.7	12.8
	6H	11.2	12.1	12.0	13.0	14.1	11.4	12.4	12.3	13.2	14.3
	8H	12.0	12.9	12.9	13.8	14.9	12.3	13.2	13.1	14.1	15.1
	12H	13.0	13.8	13.8	14.7	15.8	13.3	14.1	14.1	15.0	16.1
4H	2H	6.3	7.3	7.1	8.1	9.2	6.4	7.4	7.3	8.3	9.3
	3H	9.3	10.2	10.2	11.1	12.1	9.5	10.4	10.4	11.2	12.3
	4H	10.9	11.7	11.8	12.6	13.7	11.1	11.9	12.0	12.8	13.9
	6H	12.7	13.4	13.5	14.3	15.4	12.9	13.6	13.8	14.5	15.6
	8H	13.6	14.3	14.5	15.2	16.3	13.9	14.5	14.7	15.4	16.5
	12H	14.7	15.3	15.6	16.2	17.3	15.0	15.6	15.9	16.5	17.6
8H	4H	11.6	12.2	12.5	13.1	14.3	11.8	12.4	12.6	13.3	14.4
	6H	13.6	14.1	14.5	15.1	16.2	13.8	14.4	14.7	15.3	16.4
	8H	14.7	15.2	15.6	16.1	17.3	15.0	15.5	15.9	16.4	17.5
	12H	16.0	16.5	16.9	17.4	18.6	16.3	16.7	17.2	17.7	18.8
12H	4H	11.7	12.3	12.6	13.3	14.4	11.9	12.5	12.8	13.4	14.6
	6H	13.8	14.4	14.8	15.3	16.4	14.1	14.6	15.0	15.5	16.6
	8H	15.1	15.5	16.0	16.5	17.6	15.3	15.8	16.2	16.7	17.9

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 59.63 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.)