



The Perfect Lighting Choice.™

visit us at www.JDG.com

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 18097-A

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Artisan Glass (FSN) - Mercury Glass (MROR) 2-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN MROR 2-Light

[MORE] Steel formed housing and two frosted clear glass lenses with white interior.

[MORE] 20 LEDs mounted in two circular arrays with white plastic dome lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[MORE] Simulated data from test of one and six lamp fixtures.

[ISSUE DATE] April 20, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	14.98
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.33 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2301	2462	4916
55	1940	1930	3387
65	1735	1663	2713
75	1611	1496	2583
85	1551	1407	2628

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.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>
0.0	134.738	134.738	134.738	134.738	134.738	134.738	134.738	134.738	134.738
0.5	133.434	133.822	134.334	134.397	134.831	135.375	135.794	135.825	135.841
1.0	133.775	134.226	134.443	134.536	135.002	135.872	136.540	136.804	137.006
1.5	134.847	135.111	135.111	134.878	135.453	136.586	137.565	138.186	138.434
2.0	136.043	136.152	136.074	135.406	135.981	137.363	138.761	139.723	140.034
2.5	137.503	137.596	137.192	136.198	136.648	138.295	140.112	141.416	141.773
3.0	139.242	138.947	138.434	137.130	137.332	139.258	141.634	143.093	143.575
3.5	140.997	140.578	139.817	138.077	138.124	140.251	143.047	144.848	145.609
4.0	142.814	142.379	141.106	139.133	138.916	141.416	144.615	146.634	147.380
4.5	144.646	144.010	142.596	140.127	139.770	142.581	146.137	148.498	149.368
5.0	146.370	145.873	144.041	141.199	140.578	143.730	147.566	150.206	151.247
5.5	148.110	147.504	145.485	142.395	141.463	144.879	149.135	152.101	153.110
6.0	150.113	149.305	146.960	143.544	142.348	146.122	150.781	153.980	155.284
6.5	151.914	151.045	148.544	144.662	143.171	147.302	152.318	155.797	157.008
7.0	153.716	152.722	150.035	145.858	144.118	148.498	153.964	157.692	158.996
7.5	155.502	154.601	151.557	147.038	145.050	149.740	155.611	159.540	160.922
8.0	157.195	156.325	153.126	148.172	145.982	150.967	157.164	161.341	162.770
8.5	158.934	158.111	154.632	149.368	146.836	152.210	158.794	163.143	164.618
9.0	160.891	159.773	156.170	150.563	147.830	153.436	160.471	164.882	166.466
9.5	162.723	161.496	157.738	151.728	148.840	154.694	161.916	166.575	168.314
10.0	164.478	163.298	159.229	152.939	149.709	155.859	163.469	168.454	170.131
10.5	166.218	165.193	160.798	154.197	150.641	157.117	165.084	170.178	171.964
11.0	168.205	166.823	162.304	155.393	151.573	158.359	166.575	171.902	173.781
11.5	170.069	168.563	163.779	156.698	152.520	159.602	168.143	173.563	175.473
12.0	171.793	170.349	165.348	157.894	153.467	160.844	169.665	175.349	177.228
12.5	173.206	171.948	166.979	159.058	154.384	162.133	171.156	176.902	178.952
13.0	174.200	173.517	168.423	160.270	155.269	163.329	172.663	178.611	180.490
13.5	174.821	174.759	170.022	161.450	156.232	164.587	174.122	180.179	181.779
14.0	175.023	175.551	171.451	162.537	157.164	165.752	175.551	181.608	182.633
14.5	175.505	176.203	172.958	163.764	157.987	166.947	176.964	182.773	183.099
15.0	175.862	176.623	174.371	164.944	159.012	168.128	178.455	183.611	183.301
15.5	176.219	176.949	175.722	166.140	159.943	169.246	179.806	183.937	183.238
16.0	176.343	177.368	176.871	167.320	160.735	170.442	181.157	184.139	183.145
16.5	176.498	177.415	177.912	168.423	161.590	171.591	182.540	184.108	182.928
17.0	176.514	177.523	178.812	169.541	162.599	172.663	183.766	183.953	182.602
17.5	176.716	177.756	179.527	170.706	163.407	173.734	184.823	183.782	182.477
18.0	176.607	177.725	179.977	171.777	164.261	174.883	185.770	183.487	182.058
18.5	176.716	177.710	180.365	172.864	165.162	175.924	186.360	183.207	181.639
19.0	176.685	177.787	180.536	173.952	166.031	177.026	186.686	182.897	181.235
19.5	176.452	177.554	180.660	175.054	166.901	178.036	186.810	182.555	180.769
20.0	176.157	177.492	180.707	176.033	167.724	179.139	186.748	182.089	180.396
20.5	175.908	177.353	180.692	177.120	168.640	180.132	186.577	181.685	179.853
21.0	175.334	176.964	180.629	178.098	169.479	181.173	186.329	181.220	179.340
21.5	175.023	176.576	180.505	179.123	170.349	182.198	186.003	180.645	178.828
22.0	174.712	176.281	180.303	180.055	171.218	183.130	185.661	180.117	178.160
22.5	174.200	175.769	180.101	180.940	172.103	184.124	185.319	179.465	177.368
23.0	173.703	175.163	179.884	181.717	172.927	184.993	184.838	178.781	176.716
23.5	172.989	174.448	179.449	182.260	173.656	185.910	184.295	178.129	175.831
24.0	172.305	173.703	179.061	182.726	174.526	186.764	183.766	177.244	174.930
24.5	171.715	173.097	178.611	183.130	175.287	187.602	183.176	176.265	174.122
25.0	171.001	172.274	177.989	183.456	176.064	188.332	182.509	175.442	173.206
25.5	170.209	171.498	177.399	183.704	176.840	188.891	181.872	174.448	172.166
26.0	169.339	170.613	176.669	183.766	177.508	189.388	181.033	173.377	171.172
26.5	168.516	169.696	175.908	183.953	178.222	189.699	180.272	172.352	169.991

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

27.0	167.382	168.687	175.054	183.891	178.875	189.839	179.418	171.156	168.873
27.5	166.606	167.833	174.169	183.766	179.511	189.870	178.409	170.053	167.724
28.0	165.457	166.792	173.128	183.471	180.101	189.746	177.399	168.827	166.482
28.5	164.354	165.581	172.072	183.145	180.769	189.373	176.297	167.569	165.146
29.0	163.298	164.432	171.032	182.555	181.421	188.891	175.101	166.218	163.810
29.5	162.133	163.345	169.852	181.949	182.012	188.239	173.889	164.866	162.444
30.0	160.968	162.149	168.594	181.204	182.493	187.416	172.585	163.484	160.937
30.5	159.509	160.906	167.305	180.288	183.114	186.531	171.125	161.993	159.369
31.0	158.359	159.757	165.954	179.480	183.596	185.537	169.712	160.471	157.894
31.5	157.117	158.437	164.649	178.517	184.139	184.450	168.221	158.981	156.232
32.0	155.642	157.055	163.345	177.399	184.667	183.192	166.699	157.412	154.679
32.5	154.306	155.750	161.807	176.312	184.978	181.810	165.099	155.735	152.846
33.0	152.862	154.291	160.378	175.023	185.366	180.303	163.546	154.027	151.153
33.5	151.200	152.955	158.934	173.656	185.661	178.828	161.931	152.272	149.135
34.0	149.849	151.417	157.334	172.367	185.568	177.058	160.192	150.579	147.426
34.5	148.405	149.927	155.844	170.768	185.335	175.365	158.499	148.777	145.547
35.0	146.696	148.358	154.228	169.168	184.559	173.594	156.651	146.945	143.544
35.5	145.174	146.914	152.675	167.522	183.502	171.762	154.912	145.097	141.571
36.0	143.559	145.221	150.998	165.798	182.136	169.821	153.095	143.093	139.692
36.5	141.851	143.637	149.430	163.935	180.521	167.972	151.247	141.261	137.627
37.0	140.345	142.053	147.752	162.024	178.486	165.891	149.352	139.335	135.655
37.5	138.729	140.391	145.982	160.083	175.939	163.857	147.426	137.285	133.558
38.0	137.021	138.683	144.367	158.142	173.128	161.807	145.532	135.266	131.493
38.5	135.375	136.990	142.596	156.061	170.209	159.648	143.466	133.139	129.489
39.0	133.713	135.375	140.904	153.995	167.196	157.583	141.509	131.120	127.455
39.5	132.129	133.636	139.149	151.852	164.183	155.409	139.475	128.992	125.312
40.0	130.763	131.974	137.347	149.725	161.155	153.266	137.472	126.911	123.308
40.5	129.179	130.281	135.546	147.628	158.282	151.060	135.344	124.815	121.227
41.0	127.579	128.651	133.791	145.423	155.409	148.902	133.278	122.718	119.224
41.5	126.383	127.051	131.912	143.373	152.629	146.696	131.135	120.590	117.298
42.0	125.079	125.451	130.079	141.214	150.051	144.491	129.023	118.509	115.357
42.5	123.992	123.867	128.200	139.040	147.395	142.239	126.818	116.459	113.493
43.0	123.060	122.392	126.368	136.897	144.895	140.034	124.613	114.456	111.552
43.5	122.252	121.118	124.473	134.645	142.550	137.720	122.454	112.530	109.937
44.0	121.584	119.829	122.640	132.440	140.205	135.391	120.156	110.496	108.368
44.5	120.590	118.836	120.792	130.359	137.937	133.108	117.935	108.710	106.893
45.0	119.767	117.873	118.898	128.014	135.670	130.685	115.683	106.986	105.697
45.5	118.991	116.956	117.158	125.855	133.558	128.387	113.555	105.418	104.517
46.0	118.137	116.195	115.341	123.650	131.322	125.933	111.350	103.958	103.399
46.5	117.236	115.326	113.571	121.445	129.225	123.479	109.160	102.684	102.218
47.0	116.320	114.410	111.925	119.115	126.973	121.041	106.893	101.504	101.023
47.5	115.512	113.602	110.216	116.879	124.690	118.525	104.827	100.324	99.827
48.0	114.689	112.779	108.757	114.642	122.407	116.025	102.762	99.206	98.584
48.5	113.788	111.832	107.328	112.282	120.047	113.447	100.697	98.025	97.544
49.0	113.058	110.993	106.101	110.077	117.640	110.993	98.802	96.892	96.426
49.5	112.220	110.123	104.843	107.747	115.170	108.430	96.969	95.727	95.261
50.0	111.397	109.300	103.740	105.495	112.655	105.992	95.354	94.655	94.221
50.5	110.574	108.415	102.607	103.337	110.015	103.461	93.832	93.491	93.133
51.0	109.828	107.623	101.644	101.225	107.374	100.914	92.450	92.435	91.984
51.5	109.145	106.722	100.774	98.864	104.719	98.445	91.223	91.301	91.006
52.0	108.244	105.992	99.998	96.798	101.908	95.991	90.058	90.322	89.996
52.5	107.623	105.185	99.128	94.717	99.035	93.568	89.065	89.251	88.971
53.0	106.846	104.346	98.305	92.574	96.317	91.177	87.946	88.148	87.962
53.5	106.194	103.585	97.451	90.726	93.506	88.909	86.906	87.341	86.937
54.0	105.526	102.902	96.659	88.816	90.757	86.657	85.912	86.223	86.021
54.5	104.641	102.094	95.820	87.077	88.148	84.592	84.903	85.275	85.182

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

55.0	103.942	101.473	95.013	85.508	85.493	82.495	83.909	84.281	84.188
55.5	103.476	100.774	94.189	84.204	82.992	80.539	82.915	83.381	83.365
56.0	102.840	100.060	93.428	82.868	80.476	78.892	81.921	82.464	82.433
56.5	102.203	99.345	92.574	81.797	78.131	77.324	80.958	81.579	81.532
57.0	101.659	98.771	91.813	80.647	75.942	76.128	80.057	80.663	80.694
57.5	101.007	97.994	91.052	79.560	73.767	75.181	79.125	79.778	79.855
58.0	100.495	97.373	90.245	78.768	71.749	74.404	78.131	78.939	79.001
58.5	99.780	96.798	89.562	78.162	69.978	73.581	77.246	78.069	78.100
59.0	99.299	96.146	88.847	77.433	68.472	72.820	76.377	77.184	77.308
59.5	98.693	95.525	88.102	76.796	67.229	72.075	75.445	76.423	76.594
60.0	98.041	94.950	87.418	76.128	66.298	71.298	74.637	75.585	75.693
60.5	97.466	94.360	86.751	75.445	65.521	70.475	73.767	74.715	74.994
61.0	96.954	93.755	86.052	74.730	64.884	69.668	72.882	73.954	74.094
61.5	96.534	93.227	85.260	74.094	64.310	68.907	72.106	73.146	73.426
62.0	95.913	92.605	84.670	73.302	63.766	68.161	71.252	72.370	72.572
62.5	95.339	92.015	84.002	72.665	63.129	67.354	70.491	71.609	71.764
63.0	94.842	91.441	83.303	71.966	62.524	66.577	69.714	70.739	71.096
63.5	94.189	90.866	82.682	71.283	61.903	65.801	68.922	70.071	70.273
64.0	93.677	90.369	82.107	70.630	61.266	65.102	68.099	69.326	69.574
64.5	93.304	89.810	81.424	69.901	60.614	64.310	67.385	68.612	68.813
65.0	92.776	89.251	80.911	69.248	59.992	63.595	66.624	67.835	68.099
65.5	92.186	88.707	80.212	68.627	59.340	62.772	65.785	67.198	67.369
66.0	91.674	88.226	79.653	67.944	58.703	62.073	65.086	66.453	66.670
66.5	91.223	87.636	79.032	67.229	58.082	61.359	64.310	65.723	66.018
67.0	90.742	87.185	78.426	66.701	57.337	60.583	63.518	64.993	65.288
67.5	90.167	86.642	77.805	66.049	56.762	59.822	62.881	64.310	64.574
68.0	89.670	86.083	77.262	65.304	56.156	59.216	62.182	63.595	63.937
68.5	89.235	85.570	76.703	64.729	55.473	58.408	61.452	62.974	63.331
69.0	88.785	85.120	76.097	64.092	54.805	57.787	60.815	62.275	62.524
69.5	88.288	84.592	75.553	63.409	54.184	57.119	60.101	61.608	61.903
70.0	87.853	84.142	74.948	62.850	53.516	56.358	59.464	60.955	61.312
70.5	87.279	83.614	74.342	62.244	52.864	55.691	58.781	60.334	60.505
71.0	86.782	83.117	73.907	61.545	52.227	55.023	58.098	59.620	59.961
71.5	86.393	82.728	73.364	61.002	51.606	54.355	57.430	59.014	59.325
72.0	85.943	82.216	72.789	60.365	51.001	53.641	56.809	58.346	58.703
72.5	85.524	81.734	72.308	59.713	50.364	53.019	56.156	57.756	58.051
73.0	85.011	81.268	71.780	59.200	49.743	52.352	55.551	57.088	57.445
73.5	84.530	80.834	71.236	58.564	49.121	51.684	54.883	56.514	56.809
74.0	84.204	80.321	70.739	57.942	48.531	51.047	54.293	55.892	56.234
74.5	83.846	79.840	70.180	57.430	47.863	50.395	53.672	55.287	55.597
75.0	83.334	79.451	69.699	56.886	47.320	49.820	53.097	54.728	54.961
75.5	82.821	78.970	69.264	56.265	46.730	49.230	52.476	54.060	54.386
76.0	82.402	78.535	68.782	55.737	46.093	48.562	51.855	53.485	53.765
76.5	81.905	78.100	68.239	55.209	45.487	48.019	51.265	52.895	53.221
77.0	81.408	77.634	67.851	54.650	44.959	47.429	50.643	52.352	52.662
77.5	81.160	77.262	67.338	54.075	44.338	46.776	50.084	51.730	52.150
78.0	80.694	76.796	66.795	53.578	43.826	46.248	49.525	51.156	51.529
78.5	80.166	76.330	66.406	52.957	43.220	45.674	48.966	50.597	50.985
79.0	79.886	75.895	65.940	52.507	42.661	45.053	48.376	50.053	50.317
79.5	79.343	75.476	65.412	52.041	42.102	44.478	47.817	49.463	49.805
80.0	79.094	75.041	65.024	51.435	41.574	43.919	47.258	48.919	49.261
80.5	78.644	74.668	64.527	50.969	41.077	43.375	46.668	48.423	48.780
81.0	78.194	74.264	64.077	50.472	40.533	42.816	46.202	47.848	48.143
81.5	77.898	73.783	63.673	49.976	40.083	42.350	45.674	47.335	47.631
82.0	77.386	73.379	63.192	49.541	39.570	41.791	45.084	46.870	47.149
82.5	77.044	73.053	62.710	49.090	39.042	41.217	44.587	46.342	46.637

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

83.0	76.532	72.572	62.337	48.578	38.530	40.751	44.090	45.813	46.093
83.5	76.159	72.230	61.918	48.112	38.064	40.269	43.562	45.270	45.549
84.0	75.833	71.857	61.452	47.724	37.583	39.741	43.096	44.820	45.037
84.5	75.429	71.407	61.111	47.227	37.132	39.244	42.568	44.260	44.509
85.0	75.103	71.003	60.707	46.823	36.713	38.747	42.117	43.810	44.136
85.5	74.746	70.630	60.256	46.404	36.216	38.219	41.683	43.313	43.593
86.0	74.373	70.242	59.868	45.953	35.812	37.800	41.123	42.723	43.204
86.5	73.985	69.932	59.558	45.565	35.362	37.319	40.658	42.288	42.568
87.0	73.566	69.543	59.107	45.270	34.958	36.868	40.238	41.884	42.133
87.5	73.224	69.140	58.781	44.804	34.647	36.449	39.772	41.372	41.729
88.0	72.898	68.907	58.455	44.509	34.182	36.030	39.369	40.953	41.217
88.5	72.541	68.549	58.098	44.183	33.902	35.610	38.934	40.533	40.766
89.0	72.479	68.348	57.834	43.826	33.576	35.315	38.514	40.052	40.254
89.5	72.510	68.332	57.834	43.795	33.343	35.005	38.126	39.664	39.866
90.0	72.370	68.425	57.942	43.857	33.467	34.927	37.971	39.431	39.601
90.5	72.603	68.518	57.958	43.903	33.467	34.958	37.878	39.306	39.524
91.0	72.805	68.580	58.051	43.996	33.436	34.958	37.800	39.244	39.446
91.5	72.867	68.767	58.129	44.090	33.545	34.974	37.784	39.213	39.306
92.0	72.991	68.751	58.284	44.059	33.560	34.974	37.707	39.089	39.260
92.5	73.084	68.876	58.346	44.183	33.654	34.927	37.645	38.965	39.151
93.0	73.208	68.984	58.346	44.292	33.622	34.834	37.645	38.918	39.089
93.5	73.395	69.062	58.564	44.338	33.778	34.849	37.645	38.856	38.980
94.0	73.472	69.217	58.626	44.462	33.747	34.818	37.505	38.794	38.856
94.5	73.581	69.264	58.719	44.493	33.824	34.741	37.552	38.685	38.670
95.0	73.814	69.373	58.781	44.571	33.824	34.741	37.443	38.468	38.561
95.5	73.783	69.543	58.859	44.664	33.871	34.725	37.365	38.406	38.514
96.0	73.969	69.621	58.967	44.726	33.902	34.694	37.288	38.328	38.313
96.5	74.063	69.699	59.154	44.773	33.995	34.647	37.194	38.157	38.219
97.0	74.171	69.807	59.123	44.882	33.980	34.616	37.148	38.048	38.017
97.5	74.249	69.901	59.216	45.006	33.995	34.539	37.101	38.017	37.940
98.0	74.420	69.916	59.325	44.990	34.119	34.570	36.961	37.862	37.816
98.5	74.435	70.056	59.402	45.130	34.135	34.477	36.915	37.753	37.660
99.0	74.528	70.149	59.402	45.254	34.182	34.383	36.884	37.629	37.536
99.5	74.637	70.180	59.511	45.208	34.213	34.383	36.713	37.505	37.319
100.0	74.668	70.258	59.558	45.301	34.290	34.321	36.682	37.396	37.225
100.5	74.792	70.273	59.573	45.379	34.306	34.275	36.635	37.241	37.070
101.0	74.777	70.320	59.635	45.472	34.383	34.213	36.542	37.070	36.915
101.5	74.948	70.351	59.697	45.503	34.414	34.104	36.433	36.977	36.697
102.0	74.886	70.397	59.682	45.581	34.539	34.073	36.325	36.806	36.635
102.5	74.932	70.397	59.697	45.596	34.539	34.026	36.185	36.651	36.480
103.0	74.948	70.444	59.728	45.658	34.632	33.902	36.061	36.527	36.340
103.5	74.948	70.460	59.697	45.751	34.601	33.855	35.967	36.433	36.061
104.0	75.072	70.475	59.635	45.658	34.632	33.778	35.828	36.278	35.999
104.5	75.103	70.537	59.651	45.751	34.663	33.685	35.641	36.092	35.750
105.0	74.963	70.553	59.620	45.798	34.756	33.591	35.471	35.983	35.579
105.5	75.041	70.460	59.604	45.705	34.787	33.514	35.300	35.781	35.377
106.0	75.103	70.475	59.651	45.736	34.741	33.452	35.129	35.564	35.253
106.5	75.072	70.506	59.620	45.736	34.787	33.374	34.974	35.408	35.051
107.0	75.119	70.506	59.573	45.720	34.741	33.312	34.787	35.175	34.896
107.5	75.072	70.460	59.558	45.705	34.741	33.219	34.632	34.989	34.632
108.0	75.072	70.444	59.526	45.782	34.787	33.032	34.461	34.678	34.368
108.5	75.103	70.429	59.558	45.705	34.725	33.001	34.306	34.492	34.088
109.0	74.963	70.413	59.480	45.705	34.756	32.830	34.135	34.228	33.918
109.5	75.010	70.304	59.402	45.643	34.678	32.784	33.964	34.026	33.529
110.0	74.932	70.320	59.356	45.643	34.725	32.706	33.793	33.716	33.405
110.5	74.948	70.196	59.356	45.627	34.663	32.613	33.576	33.560	33.017

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

111.0	74.855	70.211	59.294	45.674	34.678	32.520	33.436	33.296	32.737
111.5	74.808	70.165	59.294	45.612	34.601	32.442	33.188	33.079	32.597
112.0	74.622	70.133	59.231	45.596	34.585	32.287	33.032	32.799	32.256
112.5	74.668	70.071	59.107	45.549	34.616	32.240	32.893	32.582	31.945
113.0	74.637	69.978	59.107	45.503	34.601	32.101	32.722	32.349	31.666
113.5	74.544	69.901	59.030	45.441	34.554	32.038	32.473	32.023	31.448
114.0	74.420	69.854	58.921	45.441	34.539	31.961	32.318	31.852	31.200
114.5	74.451	69.761	58.874	45.363	34.523	31.805	32.163	31.495	30.889
115.0	74.264	69.652	58.734	45.301	34.446	31.712	31.836	31.153	30.532
115.5	74.202	69.668	58.672	45.254	34.461	31.588	31.759	30.843	30.252
116.0	74.047	69.450	58.548	45.146	34.337	31.572	31.495	30.423	29.926
116.5	74.063	69.388	58.470	45.130	34.383	31.386	31.231	30.097	29.600
117.0	73.861	69.279	58.346	45.053	34.306	31.324	31.122	29.802	29.041
117.5	73.690	69.124	58.300	44.975	34.228	31.215	30.951	29.383	28.746
118.0	73.597	69.015	58.113	44.851	34.166	31.076	30.703	29.072	28.249
118.5	73.457	68.953	58.020	44.789	34.073	30.967	30.485	28.730	27.892
119.0	73.271	68.751	57.911	44.757	34.026	30.874	30.361	28.373	27.457
119.5	73.115	68.658	57.803	44.680	34.026	30.780	30.082	27.970	26.991
120.0	72.975	68.565	57.709	44.556	33.918	30.672	29.957	27.550	26.572
120.5	72.867	68.316	57.585	44.400	33.840	30.516	29.724	27.177	26.168
121.0	72.711	68.208	57.399	44.400	33.716	30.408	29.476	26.836	25.749
121.5	72.432	68.099	57.244	44.323	33.716	30.252	29.367	26.494	25.314
122.0	72.308	67.866	57.135	44.136	33.669	30.128	29.150	26.106	24.864
122.5	72.090	67.711	57.026	44.028	33.545	30.082	28.948	25.780	24.491
123.0	71.919	67.571	56.824	43.981	33.467	29.895	28.777	25.423	24.071
123.5	71.686	67.276	56.653	43.779	33.405	29.802	28.606	25.112	23.559
124.0	71.655	67.059	56.545	43.717	33.374	29.709	28.327	24.739	23.217
124.5	71.267	66.903	56.374	43.608	33.250	29.554	28.187	24.429	22.845
125.0	71.003	66.655	56.219	43.484	33.141	29.523	28.047	24.087	22.456
125.5	70.739	66.453	55.986	43.313	33.063	29.383	27.876	23.792	22.161
126.0	70.429	66.173	55.815	43.220	33.032	29.321	27.768	23.528	21.835
126.5	70.304	65.909	55.613	43.065	32.955	29.243	27.566	23.217	21.509
127.0	69.838	65.707	55.442	42.987	32.908	29.165	27.333	22.969	21.183
127.5	69.528	65.397	55.209	42.847	32.846	29.041	27.209	22.751	20.934
128.0	69.310	65.117	55.007	42.676	32.737	29.010	27.069	22.410	20.655
128.5	68.969	64.807	54.790	42.583	32.737	28.979	26.867	22.130	20.391
129.0	68.627	64.636	54.603	42.412	32.597	28.839	26.712	21.820	20.127
129.5	68.394	64.294	54.339	42.304	32.535	28.746	26.603	21.556	19.956
130.0	67.944	64.077	54.122	42.086	32.473	28.575	26.323	21.307	19.708
130.5	67.680	63.766	53.874	41.978	32.473	28.529	26.215	21.074	19.381
131.0	67.369	63.456	53.641	41.884	32.318	28.435	26.059	20.857	19.242
131.5	67.105	63.192	53.439	41.683	32.256	28.373	25.873	20.562	19.102
132.0	66.655	62.881	53.144	41.636	32.209	28.311	25.718	20.344	18.838
132.5	66.251	62.477	52.926	41.403	32.116	28.218	25.609	20.111	18.605
133.0	65.971	62.182	52.678	41.217	31.976	28.125	25.423	19.909	18.558
133.5	65.552	61.872	52.414	41.092	31.961	28.047	25.283	19.754	18.325
134.0	65.210	61.499	52.165	40.906	31.821	28.016	25.112	19.537	18.248
134.5	64.884	61.157	51.901	40.704	31.805	27.923	25.003	19.304	18.046
135.0	64.496	60.831	51.575	40.518	31.681	27.799	24.848	19.164	17.891
135.5	64.123	60.412	51.373	40.362	31.588	27.814	24.693	18.993	17.735
136.0	63.704	60.194	51.063	40.176	31.479	27.643	24.506	18.714	17.533
136.5	63.316	59.837	50.799	40.052	31.402	27.566	24.336	18.589	17.331
137.0	62.881	59.418	50.519	39.819	31.324	27.473	24.273	18.403	17.114
137.5	62.446	59.061	50.240	39.648	31.169	27.395	24.040	18.186	17.036
138.0	61.980	58.688	49.944	39.493	31.138	27.255	23.963	18.092	16.990
138.5	61.623	58.284	49.696	39.291	31.044	27.255	23.901	17.937	16.788

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

139.0	61.157	57.958	49.370	39.058	30.874	27.209	23.683	17.720	16.664
139.5	60.753	57.539	49.059	38.872	30.796	27.100	23.575	17.595	16.508
140.0	60.443	57.166	48.640	38.716	30.749	27.069	23.466	17.425	16.353
140.5	60.008	56.716	48.423	38.421	30.563	26.929	23.264	17.300	16.213
141.0	59.573	56.420	48.081	38.313	30.501	26.820	23.202	17.083	16.027
141.5	59.200	55.924	47.801	38.064	30.377	26.805	23.047	16.928	15.872
142.0	58.750	55.551	47.444	37.816	30.221	26.712	22.922	16.741	15.685
142.5	58.206	55.163	47.149	37.629	30.128	26.603	22.845	16.664	15.499
143.0	57.772	54.712	46.807	37.381	30.019	26.572	22.736	16.415	15.452
143.5	57.306	54.262	46.435	37.132	29.895	26.432	22.550	16.275	15.313
144.0	56.871	53.843	46.109	36.946	29.724	26.323	22.518	16.151	15.219
144.5	56.405	53.408	45.782	36.744	29.616	26.354	22.487	16.058	15.111
145.0	55.908	53.035	45.487	36.433	29.476	26.230	22.317	15.856	15.033
145.5	55.458	52.600	45.146	36.263	29.383	26.121	22.208	15.778	15.018
146.0	54.945	52.134	44.773	36.030	29.227	25.997	22.161	15.670	15.111
146.5	54.495	51.653	44.385	35.781	29.057	25.951	22.022	15.437	15.095
147.0	54.044	51.233	44.090	35.533	28.901	25.857	22.037	15.328	15.049
147.5	53.578	50.705	43.732	35.284	28.855	25.780	21.897	15.235	15.095
148.0	53.019	50.271	43.344	35.051	28.653	25.671	21.804	15.111	15.126
148.5	52.491	49.851	43.018	34.787	28.575	25.578	21.726	14.971	15.157
149.0	51.932	49.432	42.630	34.570	28.389	25.516	21.695	14.831	15.235
149.5	51.544	48.951	42.257	34.259	28.218	25.469	21.602	14.769	15.313
150.0	51.016	48.423	41.884	34.042	28.032	25.314	21.525	14.660	15.297
150.5	50.504	48.019	41.496	33.793	27.938	25.283	21.478	14.598	15.390
151.0	50.007	47.460	41.154	33.483	27.768	25.159	21.385	14.583	15.499
151.5	49.556	47.009	40.797	33.265	27.612	25.096	21.307	14.458	15.437
152.0	48.904	46.590	40.378	33.048	27.473	24.972	21.245	14.319	15.406
152.5	48.376	46.046	40.036	32.722	27.286	24.910	21.121	14.303	15.468
153.0	47.972	45.534	39.570	32.396	27.162	24.832	21.136	14.241	15.452
153.5	47.351	45.084	39.244	32.147	26.976	24.708	21.105	14.225	15.514
154.0	46.823	44.587	38.825	31.899	26.820	24.600	20.981	14.194	15.468
154.5	46.248	44.059	38.390	31.588	26.681	24.491	20.981	14.194	15.437
155.0	45.674	43.515	38.017	31.293	26.541	24.367	20.888	14.179	15.437
155.5	45.161	42.987	37.629	30.982	26.354	24.273	20.764	14.210	15.530
156.0	44.664	42.521	37.210	30.765	26.168	24.211	20.764	14.225	15.530
156.5	43.981	42.009	36.760	30.423	26.059	24.071	20.764	14.163	15.623
157.0	43.562	41.527	36.402	30.097	25.811	23.978	20.670	14.039	15.592
157.5	42.956	40.999	35.952	29.802	25.609	23.823	20.639	13.977	15.514
158.0	42.412	40.425	35.595	29.554	25.469	23.745	20.624	13.868	15.514
158.5	41.931	39.974	35.222	29.212	25.236	23.621	20.546	13.666	15.499
159.0	41.325	39.477	34.741	28.901	25.050	23.450	20.515	13.589	15.514
159.5	40.766	38.918	34.337	28.637	24.864	23.404	20.484	13.402	15.530
160.0	40.192	38.359	33.902	28.249	24.662	23.233	20.375	13.387	15.514
160.5	39.679	37.847	33.498	27.954	24.491	23.171	20.282	13.309	15.499
161.0	39.073	37.288	33.032	27.674	24.320	23.015	20.189	13.278	15.623
161.5	38.421	36.760	32.644	27.271	24.087	22.891	20.049	13.092	15.685
162.0	37.816	36.231	32.116	26.929	23.901	22.736	19.909	12.968	15.763
162.5	37.241	35.688	31.712	26.665	23.792	22.627	19.692	12.828	15.763
163.0	36.666	35.113	31.277	26.308	23.497	22.472	19.211	12.735	15.794
163.5	36.045	34.601	30.796	25.997	23.373	22.317	18.698	12.502	15.887
164.0	35.533	34.026	30.377	25.702	23.186	22.270	18.061	12.113	15.841
164.5	34.896	33.436	29.926	25.283	22.953	22.084	17.269	11.772	15.546
165.0	34.290	32.846	29.476	24.957	22.736	21.789	16.539	11.601	15.080
165.5	33.638	32.318	29.010	24.584	22.534	21.447	15.763	11.523	14.458
166.0	33.079	31.743	28.529	24.289	22.270	20.903	14.831	11.461	13.744
166.5	32.411	31.138	27.985	23.963	21.975	20.158	14.055	11.306	12.735

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

CANDELA TABULATION - (Cont.)

167.0	31.728	30.563	27.550	23.652	21.509	19.366	13.433	11.228	11.539
167.5	31.122	29.988	27.100	23.264	20.841	18.419	12.812	10.902	10.498
168.0	30.423	29.305	26.479	22.969	19.909	17.394	12.424	10.685	9.256
168.5	29.787	28.699	26.013	22.596	19.086	16.431	12.176	10.421	8.107
169.0	29.134	28.140	25.578	22.037	17.968	15.406	11.896	9.908	6.740
169.5	28.451	27.550	25.003	21.354	16.974	14.412	11.787	9.349	5.280
170.0	27.737	26.913	24.429	20.437	15.856	13.651	11.570	8.541	3.929
170.5	27.053	26.106	23.823	19.490	14.909	13.154	11.259	7.548	2.842
171.0	26.354	25.360	22.938	18.496	14.117	12.657	11.011	6.678	1.739
171.5	25.718	24.724	22.177	17.456	13.573	12.377	10.576	5.932	1.149
172.0	24.972	24.009	21.431	16.462	13.092	12.176	9.830	5.047	1.025
172.5	24.336	23.031	20.391	15.732	12.672	11.818	8.961	4.178	1.009
173.0	23.217	22.146	19.397	15.049	12.315	11.415	8.076	3.339	0.963
173.5	21.882	21.136	18.279	14.241	11.865	10.591	6.911	2.826	0.823
174.0	21.167	19.832	16.990	13.589	11.492	9.396	5.715	2.609	0.714
174.5	20.003	18.574	15.825	12.843	10.793	8.200	4.566	2.345	0.606
175.0	18.605	17.223	14.707	11.912	9.784	6.833	3.650	2.143	0.466
175.5	16.788	15.654	13.387	10.964	8.541	5.342	3.122	1.770	0.342
176.0	14.971	13.915	12.082	9.830	7.221	4.053	2.764	1.475	0.450
176.5	13.014	11.958	10.545	8.231	5.684	3.122	2.361	1.041	0.357
177.0	10.731	9.970	8.821	6.600	4.302	2.625	1.988	0.683	0.295
177.5	8.371	7.734	7.190	5.140	3.168	2.314	1.677	0.450	0.295
178.0	5.855	5.420	5.482	3.494	2.329	1.926	1.320	0.373	0.497
178.5	3.727	3.463	3.618	2.221	1.879	1.584	0.994	0.404	0.342
179.0	2.190	2.081	1.941	1.382	1.460	1.258	0.776	0.373	0.388
179.5	0.776	1.180	0.745	0.745	1.009	1.009	0.481	0.388	0.544
180.0	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559	0.559

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	63.30	N.A.	7.40
0-30	145.37	N.A.	16.90
0-40	244.62	N.A.	28.50
0-60	418.57	N.A.	48.70
0-80	553.77	N.A.	64.40
0-90	608.41	N.A.	70.80
10-90	594.06	N.A.	69.10
20-40	181.31	N.A.	21.10
20-50	274.85	N.A.	32.00
40-70	245.64	N.A.	28.60
60-80	135.20	N.A.	15.70
70-80	63.52	N.A.	7.40
80-90	54.63	N.A.	6.40
90-110	99.88	N.A.	11.60
90-120	143.92	N.A.	16.70
90-130	180.72	N.A.	21.00
90-150	230.38	N.A.	26.80
90-180	251.39	N.A.	29.20
110-180	151.51	N.A.	17.60
0-180	859.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.34
10-20	48.96
20-30	82.07
30-40	99.24
40-50	93.54
50-60	80.41
60-70	71.68
70-80	63.52
80-90	54.63
90-100	50.91
100-110	48.98
110-120	44.03
120-130	36.81
130-140	28.84
140-150	20.81
150-160	13.33
160-170	6.55
170-180	1.14

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.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	10	0
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71	0
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	60	59	54	0
2	90	81	74	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44	0
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37	0
4	75	63	54	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31	0
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	0
6	63	50	41	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23	0
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	0
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18	0
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	18	16	0
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN MROR 2 LIGHT.IES

UGR TABLE - CORRECTED

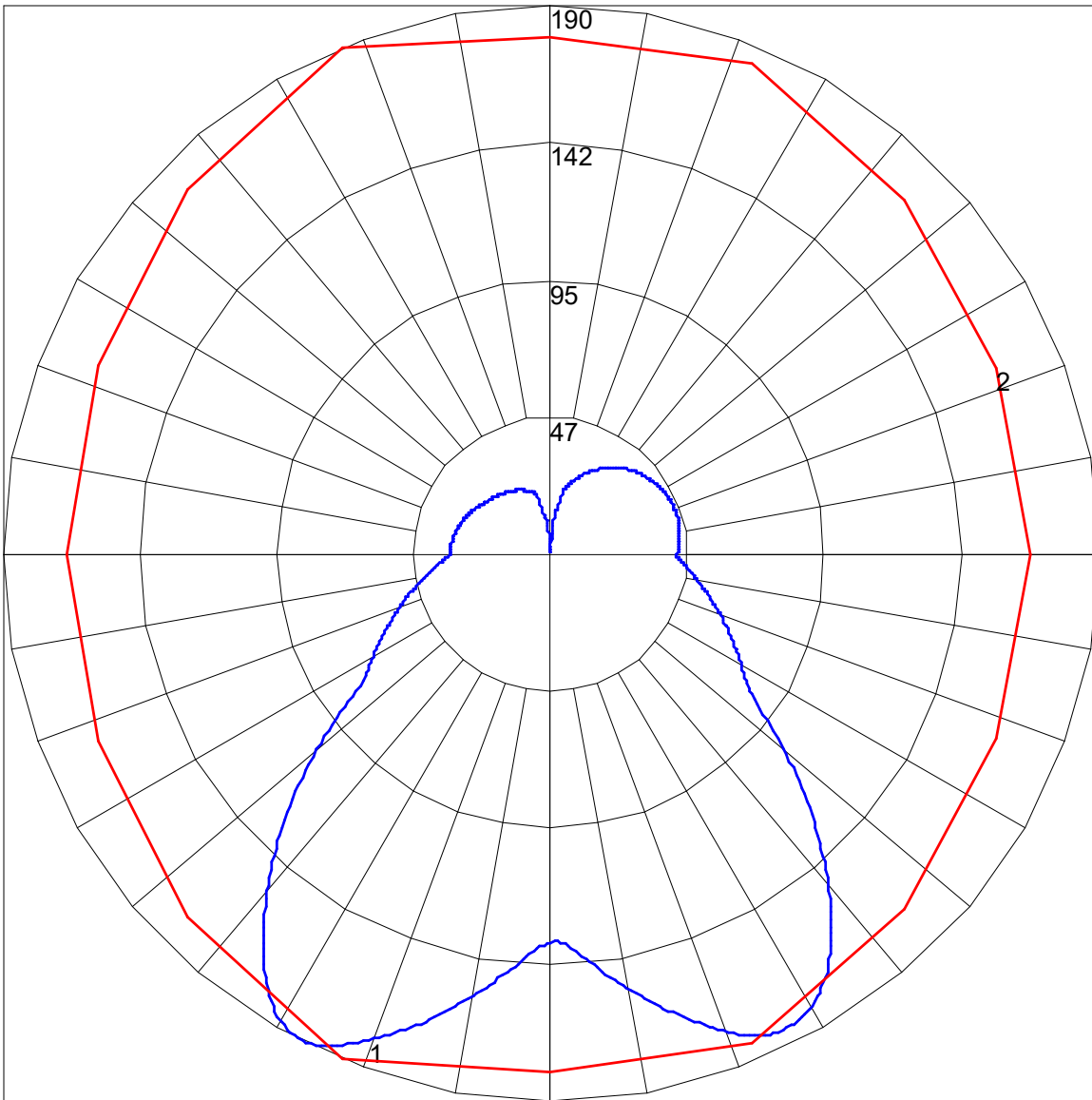
Reflectances

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		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.0	13.2	12.8	14.0	14.9	10.3	11.4	11.0	12.2	13.1
	3H	14.3	15.4	15.1	16.2	17.1	12.1	13.2	12.9	13.9	14.9
	4H	15.5	16.5	16.2	17.2	18.2	12.9	13.9	13.7	14.7	15.7
	6H	16.5	17.5	17.3	18.3	19.3	13.6	14.6	14.4	15.4	16.4
	8H	17.1	18.0	17.9	18.8	19.8	14.0	14.9	14.8	15.7	16.7
	12H	17.6	18.4	18.4	19.2	20.2	14.3	15.1	15.1	16.0	17.0
4H	2H	12.7	13.7	13.4	14.4	15.4	11.2	12.2	12.0	13.0	14.0
	3H	15.2	16.1	16.0	16.9	17.9	13.3	14.1	14.0	14.9	15.9
	4H	16.5	17.3	17.3	18.1	19.1	14.2	15.0	15.0	15.8	16.8
	6H	17.8	18.5	18.6	19.3	20.3	15.1	15.8	15.9	16.6	17.6
	8H	18.4	19.0	19.2	19.9	20.9	15.5	16.1	16.3	17.0	18.0
	12H	19.0	19.6	19.8	20.5	21.5	15.9	16.5	16.7	17.3	18.4
8H	4H	16.9	17.6	17.7	18.4	19.4	14.9	15.5	15.7	16.4	17.4
	6H	18.4	19.0	19.2	19.8	20.9	16.0	16.5	16.8	17.4	18.4
	8H	19.2	19.7	20.0	20.5	21.6	16.5	17.0	17.3	17.9	18.9
	12H	19.9	20.4	20.8	21.3	22.4	17.0	17.5	17.9	18.3	19.4
12H	4H	17.0	17.6	17.8	18.4	19.5	15.0	15.6	15.9	16.5	17.6
	6H	18.5	19.0	19.4	19.9	21.0	16.2	16.7	17.1	17.6	18.7
	8H	19.4	19.8	20.2	20.7	21.8	16.8	17.3	17.7	18.2	19.3

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 189.87 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)