



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GENERATED FROM 15746385.02  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 2025-05-02  
 [TESTDATE] 3/20/2025  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] FRM-22-L25-835-DMA-DIM-UNV  
 [LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire  
 [MORE] with center frame driver housing  
 [LAMP] LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] INDOOR  
 [\_SEARCH\_MOUNTING] RECESSED

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	25.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.90 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2418	2096	2464
55	2130	1819	2163
65	1837	1555	1857
75	1499	1295	1537
85	1048	792	1048

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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>
0.0	1324.396	1324.396	1324.396	1324.396	1324.396
0.5	1319.337	1325.028	1327.241	1324.712	1319.337
1.0	1318.389	1324.396	1326.293	1324.396	1318.389
1.5	1317.440	1323.131	1325.344	1323.131	1317.440
2.0	1315.860	1321.551	1323.764	1321.234	1315.543
2.5	1313.647	1319.654	1321.551	1319.337	1313.647
3.0	1311.433	1317.124	1319.021	1316.808	1311.433
3.5	1308.588	1313.963	1315.860	1313.963	1308.272
4.0	1305.110	1310.485	1312.382	1310.801	1305.426
4.5	1301.316	1306.691	1308.588	1307.007	1301.949
5.0	1296.890	1302.265	1304.478	1302.897	1297.838
5.5	1292.148	1297.522	1299.735	1298.787	1293.728
6.0	1287.405	1292.148	1294.677	1294.045	1289.302
6.5	1281.714	1286.773	1289.302	1288.670	1284.244
7.0	1275.707	1280.766	1283.295	1282.979	1278.869
7.5	1269.384	1274.443	1276.972	1277.288	1273.178
8.0	1263.061	1267.487	1270.333	1271.281	1267.487
8.5	1256.105	1260.532	1263.693	1264.642	1260.848
9.0	1248.834	1252.944	1256.421	1257.686	1254.525
9.5	1241.562	1245.672	1248.834	1250.731	1247.569
10.0	1233.974	1237.768	1240.930	1243.143	1240.297
10.5	1226.070	1229.548	1233.342	1235.555	1233.342
11.0	1217.850	1221.328	1224.805	1227.651	1226.386
11.5	1209.314	1212.475	1216.269	1219.115	1218.482
12.0	1200.777	1203.623	1207.100	1210.894	1210.578
12.5	1192.241	1194.454	1197.932	1202.358	1202.358
13.0	1182.756	1185.285	1188.763	1193.506	1194.138
13.5	1174.220	1175.801	1179.278	1184.653	1185.918
14.0	1165.051	1166.316	1169.477	1175.801	1177.381
14.5	1155.250	1156.515	1159.360	1166.316	1168.529
15.0	1145.449	1146.714	1148.927	1156.831	1159.676
15.5	1135.964	1136.597	1138.494	1147.346	1150.508
16.0	1126.163	1126.163	1127.744	1137.545	1141.339
16.5	1116.046	1116.046	1117.311	1127.428	1131.854
17.0	1105.929	1105.297	1105.929	1116.995	1122.053
17.5	1095.812	1094.547	1094.864	1106.878	1112.885
18.0	1085.379	1083.798	1083.482	1096.128	1103.084
18.5	1074.945	1072.732	1072.100	1085.379	1092.967
19.0	1064.512	1061.350	1060.402	1074.629	1082.849
19.5	1054.079	1050.285	1048.704	1063.564	1072.416
20.0	1043.646	1038.903	1037.006	1052.182	1062.299
20.5	1032.580	1027.205	1024.992	1041.116	1051.866
21.0	1021.830	1015.823	1012.662	1029.734	1041.749
21.5	1010.765	1004.442	1000.332	1018.353	1030.999
22.0	1000.015	993.060	988.317	1006.655	1019.933
22.5	989.582	981.362	975.987	995.273	1009.500
23.0	978.516	969.664	963.973	983.575	998.751
23.5	968.083	958.282	951.643	972.193	988.001
24.0	957.966	946.900	939.629	960.811	977.252
24.5	947.217	935.202	927.298	949.114	966.819
25.0	936.783	923.821	914.968	937.416	956.385
25.5	926.350	912.439	902.638	925.718	945.952
26.0	915.917	901.373	890.624	914.652	936.151
26.5	905.800	890.308	878.610	903.270	925.402

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**CANDELA TABULATION - (Cont.)**

27.0	895.682	879.242	866.596	892.205	915.601
27.5	885.565	868.176	854.582	881.139	905.483
28.0	876.080	857.427	842.567	870.073	895.366
28.5	865.963	846.678	830.870	859.008	885.565
29.0	856.479	835.928	819.172	847.942	875.764
29.5	846.678	825.495	807.158	836.877	865.647
30.0	836.877	814.745	795.460	826.127	855.846
30.5	827.392	804.312	783.762	815.378	846.045
31.0	817.907	793.879	772.064	804.628	836.560
31.5	808.422	783.445	760.682	793.879	826.759
32.0	798.621	773.328	749.300	783.445	817.275
32.5	789.136	763.211	738.235	772.696	807.790
33.0	779.968	752.778	726.853	761.947	797.989
33.5	770.483	742.977	715.787	751.513	788.504
34.0	761.314	732.544	704.722	741.080	778.703
34.5	752.146	722.743	693.972	730.331	769.534
35.0	743.293	712.626	683.223	719.897	760.050
35.5	734.124	702.825	672.473	709.780	750.249
36.0	725.272	693.024	662.040	699.663	741.080
36.5	716.419	683.223	651.607	689.546	731.911
37.0	707.567	673.738	641.173	679.429	722.427
37.5	698.715	664.253	631.056	669.312	712.942
38.0	690.178	655.084	621.255	659.827	703.773
38.5	681.642	645.916	611.454	650.026	694.604
39.0	672.789	636.431	601.653	640.541	685.752
39.5	664.569	627.262	592.168	631.056	676.899
40.0	656.033	618.410	582.684	621.571	668.047
40.5	647.180	609.557	573.515	612.087	659.194
41.0	638.644	600.705	564.346	602.918	650.342
41.5	630.424	591.852	555.494	594.065	641.806
42.0	621.888	583.632	546.325	584.897	633.269
42.5	613.351	574.780	537.473	576.360	624.733
43.0	604.815	566.559	528.936	567.508	616.197
43.5	596.595	558.023	520.400	558.972	607.660
44.0	588.375	549.803	511.864	550.435	599.124
44.5	580.154	541.583	503.644	541.583	590.588
45.0	571.618	533.363	495.423	533.046	582.367
45.5	563.398	524.826	487.203	524.826	573.831
46.0	555.178	516.922	478.983	516.290	565.295
46.5	546.641	508.702	471.079	507.754	557.075
47.0	538.421	500.482	463.175	499.217	548.222
47.5	529.885	492.262	455.271	490.997	540.002
48.0	521.665	484.042	447.683	482.777	531.466
48.5	513.761	476.138	440.095	474.557	522.929
49.0	505.540	467.917	432.507	466.337	514.709
49.5	497.320	460.013	425.236	458.116	505.857
50.0	489.100	451.793	417.648	449.896	497.636
50.5	480.880	443.889	410.376	441.676	489.100
51.0	472.660	435.985	403.421	433.772	480.880
51.5	464.440	427.765	396.465	425.868	472.344
52.0	456.536	420.177	389.510	417.964	464.123
52.5	448.315	412.273	382.554	410.060	455.903
53.0	440.411	404.685	375.599	402.156	447.367
53.5	432.191	396.781	368.643	394.568	439.147
54.0	423.971	389.510	362.004	386.980	430.927
54.5	416.383	381.922	355.364	379.392	422.706

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**CANDELA TABULATION - (Cont.)**

55.0	408.479	374.334	348.725	371.805	414.802
55.5	400.575	367.062	342.402	364.533	407.215
56.0	392.671	359.791	335.762	357.261	399.311
56.5	384.767	352.519	329.123	349.673	391.090
57.0	377.179	345.563	322.800	342.402	383.503
57.5	369.275	338.292	316.160	335.446	375.599
58.0	361.688	331.020	309.742	328.491	367.695
58.5	354.100	324.064	303.419	321.219	359.791
59.0	346.196	317.109	297.064	314.327	351.887
59.5	338.608	309.964	290.709	307.181	344.299
60.0	331.020	302.850	284.228	300.036	336.395
60.5	323.748	295.705	277.873	292.986	328.807
61.0	316.793	288.623	271.613	285.967	321.219
61.5	309.426	281.667	265.195	278.917	313.789
62.0	302.407	274.965	258.809	272.056	306.454
62.5	295.325	268.357	252.328	265.132	299.309
63.0	288.243	261.844	245.657	258.461	291.879
63.5	281.067	255.173	238.954	252.043	284.513
64.0	273.858	248.565	232.473	245.309	277.115
64.5	266.776	242.052	226.086	238.764	269.685
65.0	259.568	235.540	219.668	232.441	262.350
65.5	252.106	229.121	213.408	226.086	255.236
66.0	244.961	222.735	207.053	220.016	248.091
66.5	237.689	216.380	200.699	213.883	240.661
67.0	230.892	210.089	194.534	207.781	233.864
67.5	224.063	203.860	188.495	201.900	226.972
68.0	217.265	197.790	182.804	196.019	220.237
68.5	210.436	191.783	177.398	190.044	213.535
69.0	203.797	185.807	172.244	184.258	207.117
69.5	197.442	179.959	167.154	178.567	200.762
70.0	190.898	174.173	162.064	173.003	194.217
70.5	184.543	168.324	157.005	167.470	187.799
71.0	178.188	162.538	151.915	162.064	181.571
71.5	171.865	156.879	146.793	156.594	175.437
72.0	165.605	151.314	141.766	151.188	169.146
72.5	159.471	145.750	136.771	145.876	162.981
73.0	153.338	140.280	131.839	140.597	156.847
73.5	147.331	134.779	126.907	135.253	150.840
74.0	141.387	129.373	122.006	129.910	145.023
74.5	135.475	123.903	117.043	124.599	138.953
75.0	129.657	118.497	112.079	119.351	133.009
75.5	123.808	113.091	107.242	114.102	127.033
76.0	118.054	107.653	102.341	108.791	121.121
76.5	112.427	102.278	97.504	103.416	115.209
77.0	106.736	96.966	92.635	98.010	109.360
77.5	101.076	91.623	87.893	92.856	103.511
78.0	95.480	86.533	83.213	87.829	97.788
78.5	89.916	81.569	78.503	82.802	92.192
79.0	84.383	76.574	73.855	77.997	86.438
79.5	78.977	71.579	69.239	73.160	80.905
80.0	73.634	66.741	64.592	68.322	75.404
80.5	68.385	62.031	60.070	63.548	69.998
81.0	63.327	57.351	55.581	58.837	64.781
81.5	58.521	52.767	51.250	54.222	59.691
82.0	53.747	48.309	46.855	49.700	54.791
82.5	49.353	44.073	42.492	45.337	50.111

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**CANDELA TABULATION - (Cont.)**

83.0	45.179	40.152	38.066	41.132	45.685
83.5	41.354	36.548	33.798	37.149	41.480
84.0	37.655	33.228	29.782	33.481	37.623
84.5	34.050	30.098	26.115	30.067	34.019
85.0	30.541	27.158	23.080	26.905	30.541
85.5	27.000	24.155	20.614	23.775	27.190
86.0	23.712	21.214	18.527	20.803	23.870
86.5	20.550	18.369	16.598	17.990	20.898
87.0	17.768	15.650	14.765	15.429	18.211
87.5	15.112	13.216	12.931	13.279	15.808
88.0	12.678	11.129	11.002	11.445	13.563
88.5	10.275	9.169	8.789	9.516	11.319
89.0	7.208	6.608	5.849	6.545	8.473
89.5	2.845	3.130	2.751	2.909	3.952
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	444.79	N.A.	18.00
0-30	872.74	N.A.	35.40
0-40	1321.34	N.A.	53.60
0-60	2071.55	N.A.	84.00
0-80	2434.41	N.A.	98.70
0-90	2467.02	N.A.	100.00
10-90	2344.75	N.A.	95.00
20-40	876.54	N.A.	35.50
20-50	1289.34	N.A.	52.30
40-70	985.74	N.A.	40.00
60-80	362.86	N.A.	14.70
70-80	127.33	N.A.	5.20
80-90	32.61	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2467.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.27
10-20	322.52
20-30	427.95
30-40	448.59
40-50	412.79
50-60	337.42
60-70	235.53
70-80	127.33
80-90	32.61
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	73	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FRM-22-L25-835-DMA-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

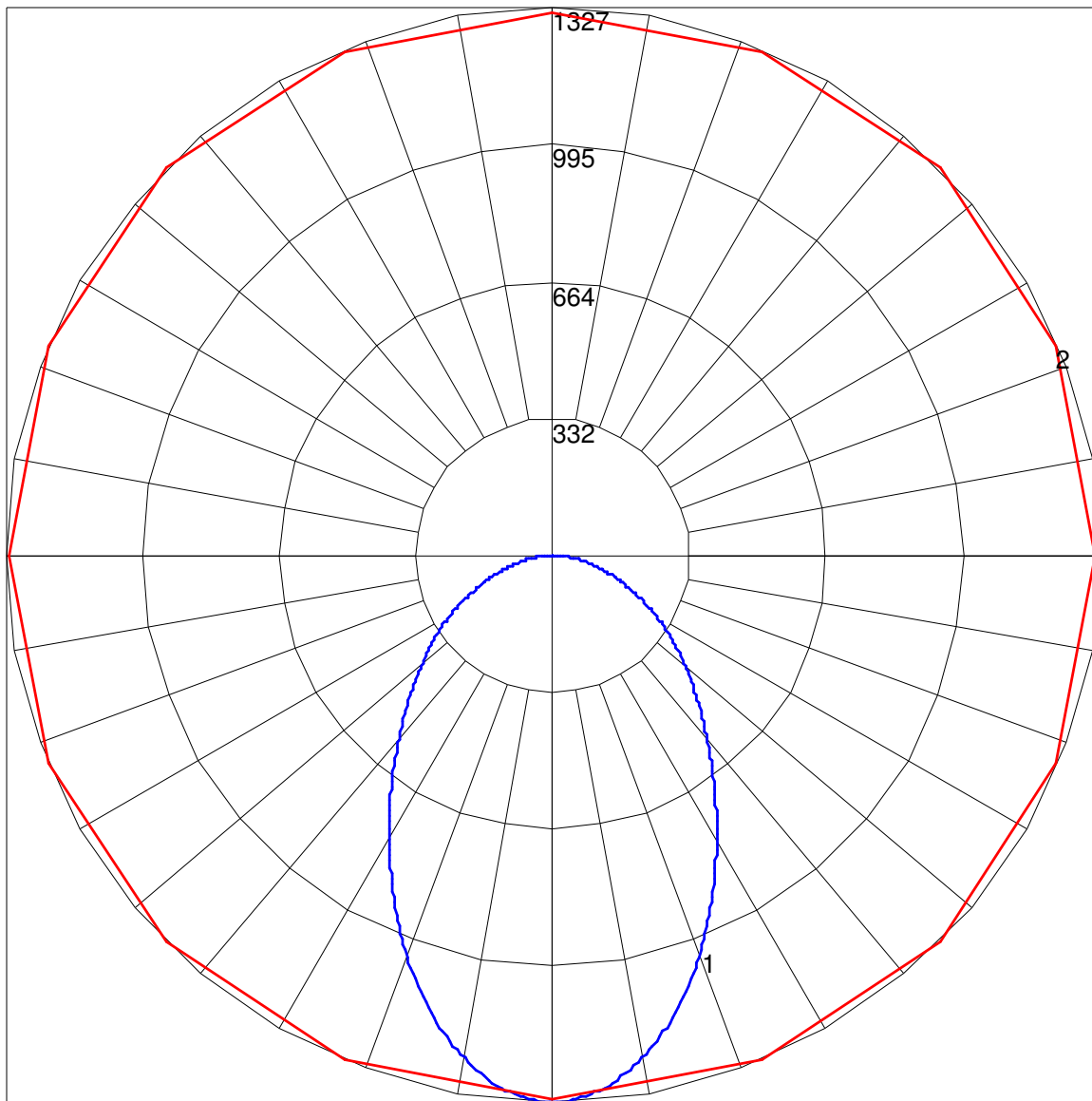
Reflectances

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	13.9	15.4	14.3	15.8	16.1	13.9	15.4	14.2	15.7	16.0
	3H	15.5	16.9	15.9	17.3	17.6	15.5	16.9	15.9	17.2	17.6
	4H	16.1	17.4	16.5	17.8	18.2	16.2	17.5	16.6	17.8	18.2
	6H	16.6	17.8	17.0	18.1	18.5	16.6	17.8	17.0	18.2	18.5
	8H	16.7	17.8	17.1	18.2	18.6	16.7	17.9	17.2	18.2	18.6
	12H	16.7	17.8	17.2	18.2	18.6	16.8	17.9	17.2	18.3	18.7
4H	2H	14.3	15.6	14.7	16.0	16.4	14.3	15.6	14.7	16.0	16.3
	3H	16.2	17.3	16.6	17.7	18.1	16.2	17.3	16.6	17.7	18.1
	4H	16.9	17.9	17.3	18.3	18.7	16.9	17.9	17.3	18.3	18.7
	6H	17.4	18.3	17.9	18.7	19.2	17.5	18.3	17.9	18.8	19.2
	8H	17.6	18.4	18.1	18.8	19.3	17.6	18.4	18.1	18.9	19.3
	12H	17.7	18.4	18.2	18.9	19.4	17.7	18.5	18.2	18.9	19.4
8H	4H	17.1	17.9	17.6	18.4	18.8	17.1	17.9	17.6	18.4	18.8
	6H	17.7	18.4	18.2	18.9	19.4	17.8	18.4	18.3	18.9	19.4
	8H	17.9	18.5	18.5	19.0	19.5	18.0	18.6	18.5	19.1	19.6
	12H	18.1	18.6	18.6	19.1	19.7	18.2	18.7	18.7	19.2	19.7
12H	4H	17.1	17.8	17.6	18.3	18.8	17.1	17.9	17.6	18.3	18.8
	6H	17.8	18.4	18.3	18.8	19.4	17.8	18.4	18.3	18.9	19.4
	8H	18.0	18.5	18.5	19.0	19.6	18.1	18.6	18.6	19.1	19.6

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1327.241 Located At Horizontal Angle = 45, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)