

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-835-DMA-DIM-UNV_.IES_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15746385.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-02
[TEST DATE] 3/20/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] FRM-24-L25-835-DMA-DIM-UNV_
[LUMINAIRE] Recessed 2 x 4 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED
[FILEGENINFO] 1.10000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2453
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	25.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 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	1310	1011	1075
55	1162	875	946
65	1004	751	813
75	811	623	677
85	597	447	527

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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	1314.608	1314.608	1314.608	1314.608	1314.608
0.5	1299.326	1313.361	1317.727	1316.792	1319.910
1.0	1298.702	1312.737	1317.103	1316.168	1318.975
1.5	1298.078	1311.801	1316.168	1314.608	1317.727
2.0	1296.831	1310.554	1314.608	1312.737	1315.544
2.5	1295.271	1308.682	1312.425	1310.242	1313.049
3.0	1293.712	1306.811	1309.930	1307.435	1310.242
3.5	1291.217	1304.316	1307.123	1304.004	1306.811
4.0	1288.722	1301.509	1303.692	1300.261	1302.757
4.5	1285.915	1298.390	1299.950	1295.895	1298.078
5.0	1282.796	1294.959	1295.895	1291.217	1293.400
5.5	1279.365	1290.905	1291.217	1285.915	1288.098
6.0	1275.622	1286.538	1285.915	1280.613	1281.860
6.5	1271.256	1282.484	1280.301	1274.375	1275.934
7.0	1266.889	1277.806	1274.687	1268.137	1269.073
7.5	1262.523	1272.503	1268.449	1261.587	1261.899
8.0	1257.533	1266.889	1262.211	1254.414	1254.726
8.5	1252.231	1261.275	1255.038	1246.617	1246.929
9.0	1246.929	1255.350	1248.176	1238.820	1238.820
9.5	1241.627	1249.112	1241.003	1231.022	1230.710
10.0	1235.701	1242.562	1233.206	1222.601	1221.978
10.5	1229.775	1236.013	1225.408	1213.868	1212.621
11.0	1223.537	1228.839	1216.987	1204.824	1203.576
11.5	1217.299	1221.666	1208.566	1195.467	1194.220
12.0	1210.750	1214.180	1199.834	1185.799	1184.551
12.5	1203.888	1206.383	1190.789	1175.818	1174.882
13.0	1197.027	1198.586	1181.744	1165.838	1164.902
13.5	1189.853	1190.477	1172.387	1155.857	1155.234
14.0	1182.680	1182.056	1162.719	1145.253	1144.629
14.5	1175.194	1173.947	1152.738	1134.649	1133.713
15.0	1167.709	1165.526	1142.758	1123.421	1123.109
15.5	1160.224	1156.481	1132.466	1112.505	1112.193
16.0	1152.427	1147.748	1122.173	1101.589	1100.965
16.5	1144.629	1138.703	1111.257	1090.049	1089.737
17.0	1136.832	1129.347	1100.341	1078.821	1078.197
17.5	1128.723	1119.678	1089.425	1067.281	1066.657
18.0	1120.302	1110.010	1078.197	1055.429	1054.806
18.5	1111.569	1100.341	1066.657	1043.578	1042.954
19.0	1103.148	1090.673	1055.429	1031.726	1031.102
19.5	1094.415	1080.692	1043.889	1019.874	1019.562
20.0	1085.682	1070.712	1032.038	1007.399	1007.399
20.5	1076.950	1060.420	1020.186	995.547	995.547
21.0	1067.905	1050.127	1008.022	983.071	983.695
21.5	1058.548	1039.835	995.859	970.908	971.531
22.0	1049.192	1029.543	983.695	958.744	959.680
22.5	1040.147	1019.250	971.531	946.268	947.516
23.0	1031.102	1008.646	959.368	934.105	935.664
23.5	1022.057	997.730	946.892	921.629	923.813
24.0	1013.013	987.438	934.729	909.154	911.961
24.5	1003.656	976.522	922.565	897.302	900.421
25.0	994.299	965.917	910.401	885.138	888.881
25.5	985.255	955.313	897.926	873.287	877.341
26.0	975.898	944.709	886.074	861.123	866.113
26.5	966.853	933.793	873.599	848.959	854.885

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-835-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

27.0	957.496	923.189	861.435	837.108	843.969
27.5	948.452	912.585	849.271	825.568	832.741
28.0	939.407	901.980	837.420	814.028	821.825
28.5	930.050	891.376	825.568	802.488	811.533
29.0	920.694	880.772	813.716	791.260	800.617
29.5	911.649	870.480	802.176	780.032	790.013
30.0	902.604	859.875	790.324	768.804	780.032
30.5	893.871	849.271	778.785	757.888	769.740
31.0	885.138	838.979	766.933	746.972	759.759
31.5	875.782	828.687	755.705	736.368	749.779
32.0	866.737	818.082	744.165	725.764	739.799
32.5	857.692	807.790	732.625	715.159	730.130
33.0	848.336	797.810	721.397	704.555	720.462
33.5	839.603	787.517	710.169	694.263	711.105
34.0	830.246	777.225	698.941	684.282	701.748
34.5	821.201	767.245	688.337	673.990	692.392
35.0	812.157	756.952	677.421	664.322	683.347
35.5	803.424	746.660	666.505	654.341	674.302
36.0	794.379	736.680	655.589	644.673	665.257
36.5	785.334	726.699	645.296	635.004	656.524
37.0	776.289	716.719	635.004	625.336	647.792
37.5	767.245	707.050	624.712	615.979	639.059
38.0	758.512	697.382	614.731	606.934	630.326
38.5	749.467	687.401	604.751	597.889	621.905
39.0	740.110	677.421	594.771	589.157	613.484
39.5	731.378	668.064	585.102	580.112	605.375
40.0	722.333	658.396	575.745	571.691	597.266
40.5	713.600	649.039	566.389	562.958	589.157
41.0	704.243	639.371	557.344	554.537	581.048
41.5	695.510	630.326	548.299	546.428	573.250
42.0	686.466	620.969	539.255	538.319	565.141
42.5	677.733	611.924	530.522	530.210	557.344
43.0	668.688	602.568	521.789	521.789	549.859
43.5	659.643	593.523	513.368	513.992	542.062
44.0	650.599	584.478	504.947	506.194	534.576
44.5	641.866	575.434	496.838	498.397	527.091
45.0	632.821	566.701	488.417	490.600	519.294
45.5	623.776	557.656	480.308	483.115	511.808
46.0	615.043	548.611	472.510	475.317	504.323
46.5	606.310	539.878	464.713	467.832	496.838
47.0	597.578	531.145	456.916	460.347	489.041
47.5	588.533	522.413	449.119	453.173	481.555
48.0	579.488	513.680	441.634	445.688	474.070
48.5	570.443	504.947	433.836	438.203	466.585
49.0	562.022	496.526	426.663	430.717	459.099
49.5	552.666	487.793	419.178	423.544	451.926
50.0	543.933	479.372	411.692	416.059	444.441
50.5	535.200	470.951	404.519	408.885	437.267
51.0	526.155	462.530	397.345	401.712	429.782
51.5	517.422	453.797	390.484	394.227	421.985
52.0	508.066	445.376	383.310	387.053	414.811
52.5	499.333	436.955	376.449	379.880	407.326
53.0	490.600	428.846	369.899	373.018	399.841
53.5	481.867	420.425	363.038	365.845	392.355
54.0	472.822	412.316	356.176	358.671	384.870
54.5	464.089	404.519	349.627	351.810	377.385

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-835-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

55.0	455.357	396.410	343.077	344.948	370.523
55.5	446.624	388.301	336.527	338.087	363.350
56.0	437.891	380.503	329.978	331.225	355.864
56.5	429.470	372.706	323.428	324.676	348.691
57.0	421.049	364.909	317.190	317.814	341.517
57.5	412.316	357.112	310.921	311.077	334.344
58.0	403.895	349.627	304.559	304.465	327.483
58.5	395.474	341.829	298.352	297.760	320.621
59.0	387.053	334.344	292.021	291.179	313.448
59.5	378.944	326.859	285.814	284.691	306.399
60.0	370.523	319.373	279.545	278.204	299.631
60.5	362.414	311.888	273.276	271.779	293.019
61.0	354.305	304.528	267.132	265.292	286.251
61.5	345.884	297.261	260.738	258.929	279.639
62.0	338.087	290.025	254.563	252.567	273.183
62.5	329.978	282.945	248.263	246.298	266.571
63.0	321.869	275.834	242.025	240.123	259.896
63.5	314.383	268.941	235.819	234.010	253.659
64.0	306.274	261.924	229.425	227.897	247.234
64.5	298.165	255.000	223.156	221.877	240.934
65.0	289.838	248.263	216.856	216.045	234.758
65.5	281.916	241.370	210.680	210.306	228.583
66.0	274.056	234.477	204.599	204.505	221.877
66.5	266.415	227.772	198.579	198.953	215.702
67.0	258.774	220.973	192.653	193.464	209.620
67.5	250.976	214.330	186.790	187.944	203.632
68.0	242.867	207.780	181.145	182.517	197.581
68.5	234.945	201.449	175.687	177.090	191.811
69.0	227.429	194.992	170.291	171.694	185.854
69.5	220.099	188.723	164.989	166.392	179.959
70.0	212.676	182.610	159.749	161.184	174.127
70.5	205.503	176.435	154.572	156.069	168.513
71.0	198.143	170.353	149.488	150.954	162.837
71.5	191.125	164.365	144.467	145.901	157.316
72.0	183.983	158.470	139.445	140.880	151.827
72.5	177.028	152.513	134.424	135.921	146.369
73.0	170.073	146.650	129.527	130.931	141.005
73.5	163.305	140.817	124.599	126.003	135.609
74.0	156.630	135.016	119.703	121.044	130.244
74.5	149.925	129.278	114.868	116.178	124.974
75.0	143.344	123.570	110.159	111.313	119.734
75.5	136.763	117.925	105.449	106.572	114.432
76.0	130.307	112.311	100.646	101.769	109.317
76.5	123.944	106.697	95.999	97.028	104.108
77.0	117.738	101.021	91.414	92.319	98.993
77.5	111.531	95.563	86.767	87.765	93.910
78.0	105.387	90.354	82.151	83.181	88.888
78.5	99.305	85.114	77.660	78.689	83.898
79.0	93.410	80.030	73.169	74.229	79.032
79.5	87.765	75.040	68.740	69.769	74.198
80.0	82.151	70.268	64.311	65.309	69.395
80.5	76.662	65.528	59.914	60.912	64.966
81.0	71.298	60.881	55.578	56.732	60.693
81.5	66.089	56.452	51.274	52.834	56.764
82.0	61.099	52.117	47.126	49.091	52.896
82.5	56.327	47.968	43.009	45.598	49.060

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PHOTOMETRIC FILENAME : FRM-24-L25-835-DMA-DIM-UNV_.IES_.IES

CANDELA TABULATION - (Cont.)

83.0	51.805	43.914	39.142	42.261	45.317
83.5	47.438	40.046	35.586	38.892	41.699
84.0	43.384	36.366	32.343	35.555	38.144
84.5	39.360	32.779	29.411	32.280	34.713
85.0	35.555	29.349	26.635	29.068	31.407
85.5	31.906	26.074	24.047	25.980	28.195
86.0	28.288	22.893	21.583	23.080	25.325
86.5	24.764	19.930	19.243	20.491	22.737
87.0	21.240	17.279	17.060	18.277	20.335
87.5	17.715	14.877	15.127	16.405	18.245
88.0	14.253	12.600	13.318	14.690	16.374
88.5	11.166	10.417	11.446	12.975	14.565
89.0	8.327	8.047	9.170	10.511	11.633
89.5	5.146	5.115	6.144	7.891	9.170
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-24-L25-835-DMA-DIM-UNV_.IES_.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-24-L25-835-DMA-DIM-UNV_.IES_.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-24-L25-835-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	441.98	N.A.	18.00
0-30	867.46	N.A.	35.40
0-40	1312.73	N.A.	53.50
0-60	2057.64	N.A.	83.90
0-80	2418.21	N.A.	98.60
0-90	2453.15	N.A.	100.00
10-90	2331.73	N.A.	95.10
20-40	870.75	N.A.	35.50
20-50	1280.46	N.A.	52.20
40-70	979.06	N.A.	39.90
60-80	360.57	N.A.	14.70
70-80	126.42	N.A.	5.20
80-90	34.93	N.A.	1.40
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	2453.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.42
10-20	320.56
20-30	425.48
30-40	445.27
40-50	409.70
50-60	335.21
60-70	234.15
70-80	126.42
80-90	34.93
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-24-L25-835-DMA-DIM-UNV_.IES_.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	72	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	73	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	53	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-24-L25-835-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

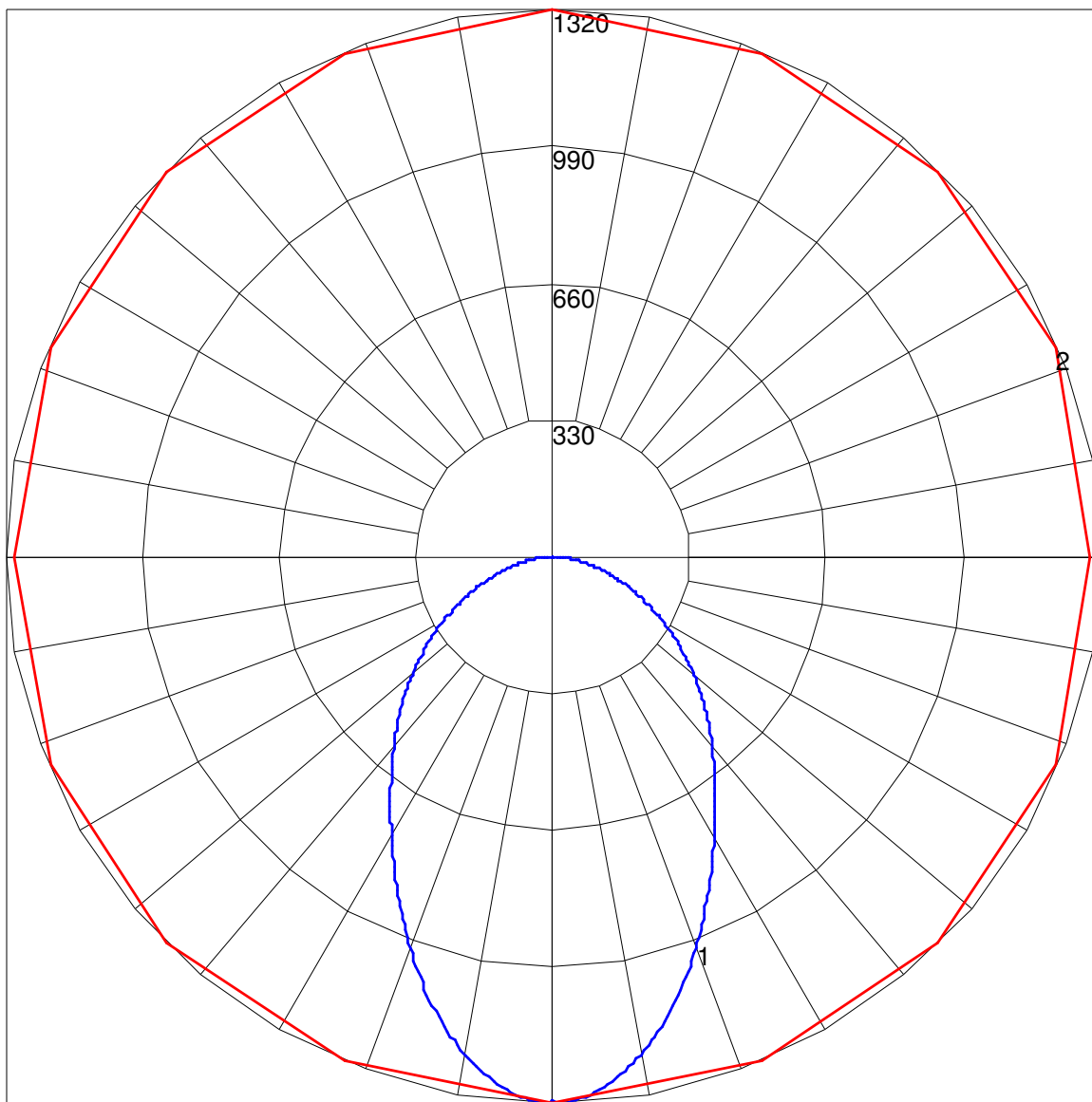
Reflectances

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	11.9	13.5	12.3	13.8	14.1	10.9	12.4	11.2	12.7	13.0
	3H	13.6	15.0	14.0	15.3	15.7	12.5	13.9	12.9	14.2	14.6
	4H	14.2	15.5	14.6	15.9	16.2	13.1	14.4	13.5	14.8	15.1
	6H	14.6	15.8	15.0	16.2	16.6	13.5	14.7	14.0	15.1	15.5
	8H	14.8	15.9	15.2	16.3	16.7	13.7	14.8	14.1	15.2	15.6
	12H	14.8	15.9	15.3	16.3	16.8	13.8	14.9	14.2	15.3	15.7
4H	2H	12.3	13.6	12.7	13.9	14.3	11.4	12.7	11.8	13.0	13.4
	3H	14.2	15.2	14.6	15.6	16.0	13.2	14.3	13.6	14.7	15.1
	4H	14.9	15.9	15.3	16.3	16.7	13.9	14.9	14.4	15.3	15.8
	6H	15.4	16.3	15.9	16.7	17.2	14.5	15.3	15.0	15.8	16.2
	8H	15.6	16.4	16.1	16.8	17.3	14.7	15.5	15.1	15.9	16.4
	12H	15.7	16.4	16.2	16.9	17.4	14.8	15.5	15.3	16.0	16.5
8H	4H	15.1	15.8	15.5	16.3	16.8	14.2	15.0	14.7	15.4	15.9
	6H	15.7	16.3	16.2	16.8	17.3	14.9	15.5	15.4	16.0	16.5
	8H	15.9	16.5	16.4	17.0	17.5	15.1	15.7	15.6	16.2	16.7
	12H	16.1	16.6	16.6	17.1	17.7	15.3	15.8	15.8	16.3	16.9
12H	4H	15.1	15.8	15.5	16.2	16.7	14.2	14.9	14.7	15.4	15.9
	6H	15.7	16.3	16.2	16.8	17.3	14.9	15.5	15.4	16.0	16.5
	8H	16.0	16.5	16.5	17.0	17.6	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 1319.91 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)