



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L25-850-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-L25-850-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	2615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	2563	2222	2612
55	2258	1928	2293
65	1948	1648	1968
75	1589	1373	1630
85	1111	840	1111

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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	1403.860	1403.860	1403.860	1403.860	1403.860
0.5	1398.498	1404.530	1406.876	1404.195	1398.498
1.0	1397.492	1403.860	1405.871	1403.860	1397.492
1.5	1396.487	1402.519	1404.865	1402.519	1396.487
2.0	1394.811	1400.844	1403.190	1400.509	1394.476
2.5	1392.466	1398.833	1400.844	1398.498	1392.466
3.0	1390.120	1396.152	1398.163	1395.817	1390.120
3.5	1387.103	1392.801	1394.811	1392.801	1386.768
4.0	1383.417	1389.114	1391.125	1389.449	1383.752
4.5	1379.395	1385.093	1387.103	1385.428	1380.066
5.0	1374.704	1380.401	1382.747	1381.071	1375.709
5.5	1369.677	1375.374	1377.720	1376.714	1371.352
6.0	1364.650	1369.677	1372.358	1371.687	1366.661
6.5	1358.617	1363.979	1366.661	1365.990	1361.298
7.0	1352.250	1357.612	1360.293	1359.958	1355.601
7.5	1345.547	1350.909	1353.590	1353.926	1349.569
8.0	1338.845	1343.537	1346.553	1347.558	1343.537
8.5	1331.472	1336.164	1339.515	1340.520	1336.499
9.0	1323.764	1328.121	1331.807	1333.148	1329.796
9.5	1316.056	1320.413	1323.764	1325.775	1322.423
10.0	1308.013	1312.034	1315.386	1317.732	1314.715
10.5	1299.635	1303.321	1307.343	1309.688	1307.343
11.0	1290.921	1294.608	1298.294	1301.310	1299.970
11.5	1281.873	1285.224	1289.245	1292.262	1291.591
12.0	1272.824	1275.840	1279.527	1283.548	1283.213
12.5	1263.776	1266.122	1269.808	1274.500	1274.500
13.0	1253.722	1256.403	1260.089	1265.116	1265.786
13.5	1244.673	1246.349	1250.035	1255.732	1257.073
14.0	1234.954	1236.295	1239.646	1246.349	1248.024
14.5	1224.565	1225.906	1228.922	1236.295	1238.641
15.0	1214.176	1215.517	1217.863	1226.241	1229.257
15.5	1204.122	1204.793	1206.803	1216.187	1219.538
16.0	1193.733	1193.733	1195.409	1205.798	1209.820
16.5	1183.009	1183.009	1184.350	1195.074	1199.766
17.0	1172.285	1171.615	1172.285	1184.015	1189.377
17.5	1161.561	1160.220	1160.556	1173.290	1179.658
18.0	1150.502	1148.826	1148.491	1161.896	1169.269
18.5	1139.442	1137.096	1136.426	1150.502	1158.545
19.0	1128.383	1125.032	1124.026	1139.107	1147.821
19.5	1117.324	1113.302	1111.627	1127.378	1136.761
20.0	1106.264	1101.237	1099.227	1115.313	1126.037
20.5	1094.535	1088.838	1086.492	1103.583	1114.978
21.0	1083.140	1076.773	1073.422	1091.519	1104.254
21.5	1071.411	1064.708	1060.352	1079.454	1092.859
22.0	1060.016	1052.644	1047.617	1067.054	1081.130
22.5	1048.957	1040.244	1034.547	1054.990	1070.070
23.0	1037.228	1027.844	1021.812	1042.590	1058.676
23.5	1026.168	1015.779	1008.742	1030.525	1047.282
24.0	1015.444	1003.715	996.007	1018.460	1035.887
24.5	1004.050	991.315	982.937	1006.061	1024.828
25.0	992.990	979.250	969.866	993.661	1013.769
25.5	981.931	967.185	956.796	981.261	1002.709
26.0	970.872	955.456	944.061	969.531	992.320
26.5	960.148	943.726	931.327	957.467	980.926

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**CANDELA TABULATION - (Cont.)**

27.0	949.424	931.997	918.592	945.737	970.537
27.5	938.699	920.267	905.857	934.008	959.813
28.0	928.645	908.873	893.122	922.278	949.088
28.5	917.921	897.478	880.722	910.548	938.699
29.0	907.867	886.084	868.322	898.819	928.310
29.5	897.478	875.025	855.587	887.089	917.586
30.0	887.089	863.630	843.187	875.695	907.197
30.5	877.035	852.571	830.788	864.301	896.808
31.0	866.982	841.512	818.388	852.906	886.754
31.5	856.928	830.452	806.323	841.512	876.365
32.0	846.539	819.728	794.258	830.452	866.311
32.5	836.485	809.004	782.529	819.058	856.257
33.0	826.766	797.945	770.464	807.664	845.868
33.5	816.712	787.556	758.735	796.604	835.814
34.0	806.993	776.496	747.005	785.545	825.425
34.5	797.274	766.107	735.611	774.151	815.707
35.0	787.891	755.383	724.216	763.091	805.653
35.5	778.172	744.994	712.822	752.367	795.264
36.0	768.788	734.605	701.762	741.643	785.545
36.5	759.405	724.216	690.703	730.919	775.826
37.0	750.021	714.162	679.644	720.195	765.772
37.5	740.638	704.108	668.920	709.470	755.718
38.0	731.589	694.390	658.531	699.417	746.000
38.5	722.540	684.671	648.142	689.027	736.281
39.0	713.157	674.617	637.753	678.974	726.897
39.5	704.443	664.898	627.699	668.920	717.514
40.0	695.395	655.514	617.645	658.866	708.130
40.5	686.011	646.131	607.926	648.812	698.746
41.0	676.963	636.747	598.207	639.093	689.363
41.5	668.249	627.364	588.824	629.709	680.314
42.0	659.201	618.650	579.105	619.991	671.266
42.5	650.152	609.267	569.721	610.942	662.217
43.0	641.104	600.553	560.673	601.559	653.169
43.5	632.390	591.505	551.624	592.510	644.120
44.0	623.677	582.791	542.576	583.461	635.072
44.5	614.964	574.078	533.862	574.078	626.023
45.0	605.915	565.364	525.149	565.029	617.310
45.5	597.202	556.316	516.435	556.316	608.261
46.0	588.488	547.938	507.722	547.267	599.213
46.5	579.440	539.224	499.344	538.219	590.499
47.0	570.727	530.511	490.966	529.170	581.116
47.5	561.678	521.798	482.587	520.457	572.402
48.0	552.965	513.084	474.544	511.744	563.354
48.5	544.586	504.706	466.501	503.030	554.305
49.0	535.873	495.993	458.458	494.317	545.592
49.5	527.160	487.614	450.750	485.604	536.208
50.0	518.446	478.901	442.707	476.890	527.495
50.5	509.733	470.523	434.999	468.177	518.446
51.0	501.019	462.144	427.626	459.798	509.733
51.5	492.306	453.431	420.253	451.420	500.684
52.0	483.928	445.388	412.880	443.042	491.971
52.5	475.214	437.010	405.507	434.664	483.258
53.0	466.836	428.967	398.135	426.285	474.209
53.5	458.123	420.588	390.762	418.242	465.496
54.0	449.409	412.880	383.724	410.199	456.782
54.5	441.366	404.837	376.686	402.156	448.069

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**CANDELA TABULATION - (Cont.)**

55.0	432.988	396.794	369.648	394.113	439.691
55.5	424.610	389.086	362.946	386.405	431.648
56.0	416.232	381.378	355.908	378.697	423.269
56.5	407.853	373.670	348.870	370.654	414.556
57.0	399.810	366.297	342.168	362.946	406.513
57.5	391.432	358.589	335.130	355.573	398.135
58.0	383.389	350.881	328.327	348.200	389.756
58.5	375.346	343.508	321.624	340.492	381.378
59.0	366.967	336.135	314.888	333.186	373.000
59.5	358.924	328.562	308.152	325.612	364.957
60.0	350.881	321.021	301.282	318.038	356.578
60.5	343.173	313.447	294.546	310.565	348.535
61.0	335.800	305.940	287.910	303.125	340.492
61.5	327.992	298.567	281.107	295.652	332.617
62.0	320.552	291.463	274.337	288.379	324.842
62.5	313.045	284.458	267.467	281.040	317.268
63.0	305.538	277.555	260.396	273.969	309.392
63.5	297.931	270.484	253.291	267.166	301.584
64.0	290.290	263.479	246.421	260.027	293.742
64.5	282.783	256.576	239.652	253.090	285.866
65.0	275.142	249.672	232.848	246.388	278.091
65.5	267.233	242.869	226.213	239.652	270.551
66.0	259.659	236.099	219.477	233.217	262.977
66.5	251.951	229.363	212.741	226.716	255.101
67.0	244.746	222.694	206.206	220.247	247.896
67.5	237.507	216.092	199.805	214.014	240.590
68.0	230.301	209.657	193.772	207.781	233.452
68.5	223.063	203.290	188.041	201.447	226.347
69.0	216.025	196.956	182.579	195.314	219.544
69.5	209.289	190.756	177.183	189.281	212.808
70.0	202.352	184.623	171.788	183.383	205.870
70.5	195.615	178.423	166.426	177.518	199.067
71.0	188.879	172.290	161.030	171.788	192.465
71.5	182.177	166.292	155.601	165.990	185.964
72.0	175.541	160.393	150.272	160.259	179.295
72.5	169.040	154.495	144.977	154.629	172.760
73.0	162.538	148.697	139.749	149.032	166.258
73.5	156.171	142.866	134.521	143.369	159.891
74.0	149.870	137.135	129.327	137.705	153.724
74.5	143.603	131.337	124.065	132.075	147.290
75.0	137.437	125.607	118.804	126.512	140.989
75.5	131.237	119.876	113.676	120.948	134.655
76.0	125.138	114.112	108.482	115.318	128.388
76.5	119.172	108.415	103.354	109.621	122.121
77.0	113.140	102.784	98.193	103.890	115.922
77.5	107.141	97.121	93.166	98.428	109.722
78.0	101.209	91.725	88.206	93.099	103.656
78.5	95.311	86.464	83.213	87.771	97.724
79.0	89.446	81.169	78.286	82.677	91.625
79.5	83.715	75.873	73.393	77.549	85.760
80.0	78.052	70.746	68.467	72.422	79.929
80.5	72.489	65.753	63.675	67.361	74.198
81.0	67.127	60.793	58.916	62.368	68.668
81.5	62.033	55.933	54.325	57.475	63.273
82.0	56.972	51.208	49.666	52.682	58.078
82.5	52.314	46.717	45.041	48.058	53.118

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**CANDELA TABULATION - (Cont.)**

83.0	47.890	42.562	40.350	43.600	48.426
83.5	43.835	38.741	35.825	39.378	43.969
84.0	39.914	35.222	31.569	35.490	39.880
84.5	36.094	31.904	27.682	31.871	36.060
85.0	32.374	28.788	24.464	28.520	32.374
85.5	28.620	25.604	21.850	25.202	28.821
86.0	25.135	22.487	19.639	22.052	25.302
86.5	21.783	19.471	17.594	19.069	22.152
87.0	18.834	16.589	15.651	16.354	19.303
87.5	16.019	14.008	13.707	14.075	16.757
88.0	13.439	11.797	11.663	12.132	14.377
88.5	10.892	9.719	9.317	10.087	11.998
89.0	7.641	7.004	6.200	6.937	8.981
89.5	3.016	3.318	2.916	3.083	4.189
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-L25-850-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-L25-850-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-L25-850-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	471.48	N.A.	18.00
0-30	925.11	N.A.	35.40
0-40	1400.62	N.A.	53.60
0-60	2195.84	N.A.	84.00
0-80	2580.47	N.A.	98.70
0-90	2615.04	N.A.	100.00
10-90	2485.44	N.A.	95.00
20-40	929.14	N.A.	35.50
20-50	1366.7	N.A.	52.30
40-70	1044.88	N.A.	40.00
60-80	384.63	N.A.	14.70
70-80	134.97	N.A.	5.20
80-90	34.57	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	2615.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.60
10-20	341.87
20-30	453.63
30-40	475.51
40-50	437.56
50-60	357.66
60-70	249.66
70-80	134.97
80-90	34.57
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-L25-850-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-L25-850-DMA-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

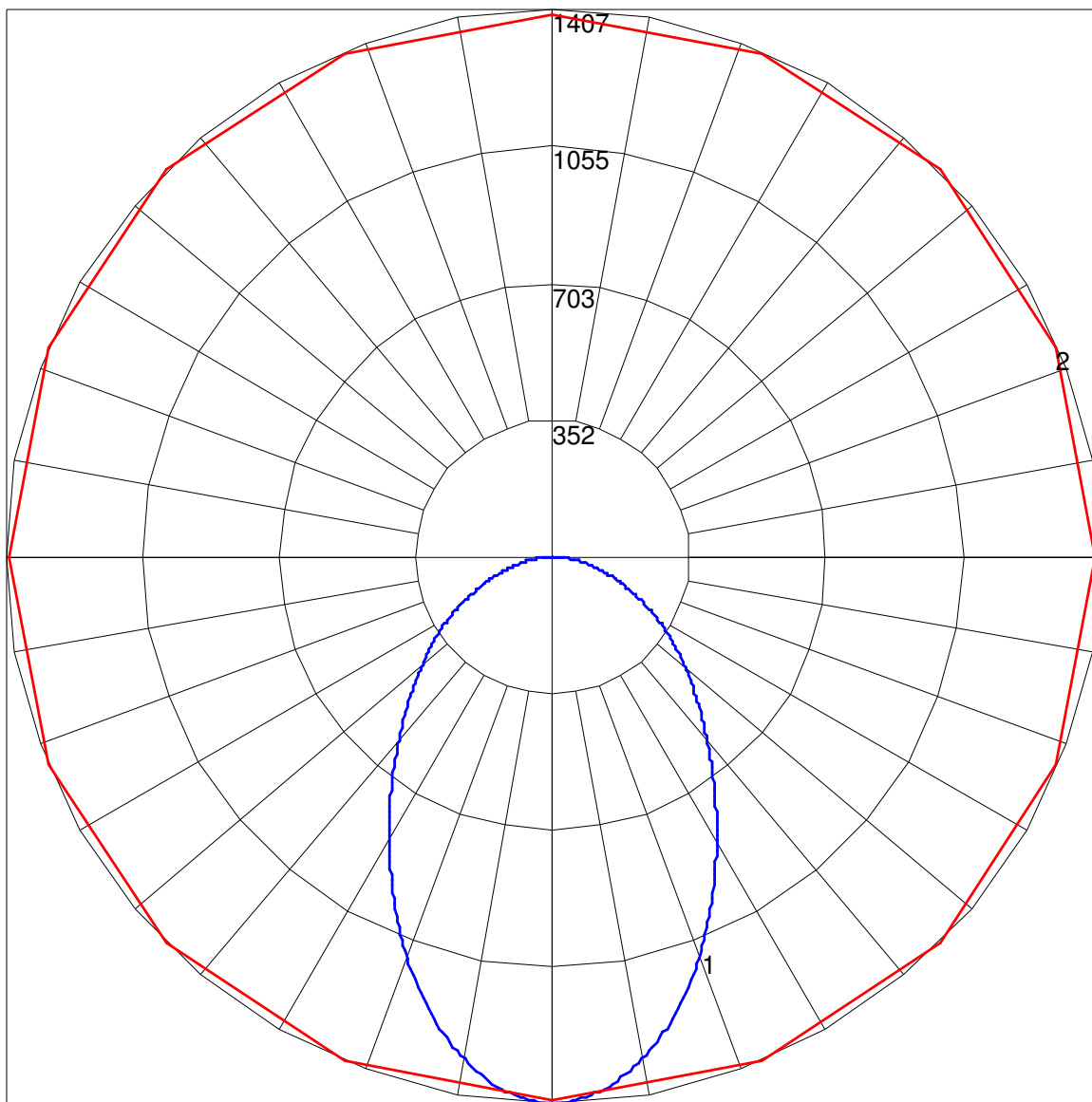
Reflectances

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	14.1	15.6	14.5	16.0	16.3	14.1	15.6	14.5	15.9	16.2
	3H	15.7	17.1	16.1	17.5	17.8	15.7	17.1	16.1	17.5	17.8
	4H	16.3	17.6	16.7	18.0	18.4	16.4	17.7	16.8	18.0	18.4
	6H	16.8	18.0	17.2	18.3	18.7	16.8	18.0	17.2	18.4	18.7
	8H	16.9	18.0	17.3	18.4	18.8	16.9	18.1	17.4	18.4	18.8
	12H	16.9	18.0	17.4	18.4	18.8	17.0	18.1	17.4	18.5	18.9
4H	2H	14.5	15.8	14.9	16.2	16.6	14.5	15.8	14.9	16.2	16.5
	3H	16.4	17.5	16.8	17.9	18.3	16.4	17.5	16.8	17.9	18.3
	4H	17.1	18.1	17.5	18.5	18.9	17.1	18.1	17.5	18.5	18.9
	6H	17.6	18.5	18.1	18.9	19.4	17.7	18.5	18.1	19.0	19.4
	8H	17.8	18.6	18.3	19.0	19.5	17.8	18.6	18.3	19.1	19.5
	12H	17.9	18.6	18.4	19.1	19.6	18.0	18.7	18.4	19.1	19.6
8H	4H	17.3	18.1	17.8	18.6	19.0	17.3	18.1	17.8	18.6	19.0
	6H	17.9	18.6	18.4	19.1	19.6	18.0	18.6	18.5	19.1	19.6
	8H	18.1	18.7	18.7	19.2	19.7	18.2	18.8	18.7	19.3	19.8
	12H	18.3	18.8	18.8	19.3	19.9	18.4	18.9	18.9	19.4	19.9
12H	4H	17.3	18.0	17.8	18.5	19.0	17.4	18.1	17.8	18.5	19.0
	6H	18.0	18.6	18.5	19.0	19.6	18.0	18.6	18.5	19.1	19.6
	8H	18.2	18.7	18.7	19.2	19.8	18.3	18.8	18.8	19.3	19.8

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 1406.876 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.)