

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-850-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-L25-850-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	2600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	1389	1072	1139
55	1232	928	1002
65	1064	796	862
75	859	660	718
85	633	474	559

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-850-DMA-DIM-UNV\_.IES\_.IES

## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1393.485	1393.485	1393.485	1393.485	1393.485
0.5	1377.285	1392.162	1396.791	1395.799	1399.105
1.0	1376.624	1391.501	1396.130	1395.138	1398.113
1.5	1375.963	1390.509	1395.138	1393.485	1396.791
2.0	1374.641	1389.187	1393.485	1391.501	1394.477
2.5	1372.988	1387.203	1391.171	1388.856	1391.832
3.0	1371.335	1385.220	1388.526	1385.881	1388.856
3.5	1368.690	1382.575	1385.550	1382.244	1385.220
4.0	1366.045	1379.600	1381.914	1378.277	1380.922
4.5	1363.070	1376.294	1377.947	1373.649	1375.963
5.0	1359.764	1372.657	1373.649	1368.690	1371.004
5.5	1356.127	1368.359	1368.690	1363.070	1365.384
6.0	1352.160	1363.731	1363.070	1357.449	1358.772
6.5	1347.531	1359.433	1357.119	1350.837	1352.490
7.0	1342.903	1354.474	1351.168	1344.225	1345.217
7.5	1338.274	1348.854	1344.556	1337.283	1337.613
8.0	1332.985	1342.903	1337.944	1329.679	1330.009
8.5	1327.365	1336.952	1330.340	1321.414	1321.744
9.0	1321.744	1330.671	1323.067	1313.149	1313.149
9.5	1316.124	1324.059	1315.463	1304.884	1304.553
10.0	1309.843	1317.116	1307.198	1295.957	1295.296
10.5	1303.561	1310.173	1298.933	1286.701	1285.378
11.0	1296.949	1302.569	1290.007	1277.113	1275.791
11.5	1290.337	1294.966	1281.080	1267.195	1265.873
12.0	1283.395	1287.031	1271.824	1256.947	1255.624
12.5	1276.121	1278.766	1262.236	1246.367	1245.375
13.0	1268.848	1270.501	1252.649	1235.788	1234.796
13.5	1261.244	1261.906	1242.731	1225.209	1224.548
14.0	1253.640	1252.979	1232.482	1213.968	1213.307
14.5	1245.706	1244.384	1221.903	1202.728	1201.736
15.0	1237.772	1235.457	1211.324	1190.826	1190.496
15.5	1229.837	1225.870	1200.414	1179.255	1178.925
16.0	1221.572	1216.613	1189.504	1167.684	1167.023
16.5	1213.307	1207.026	1177.933	1155.452	1155.121
17.0	1205.042	1197.108	1166.362	1143.550	1142.889
17.5	1196.446	1186.859	1154.791	1131.318	1130.657
18.0	1187.520	1176.610	1142.889	1118.755	1118.094
18.5	1178.263	1166.362	1130.657	1106.192	1105.531
19.0	1169.337	1156.113	1118.755	1093.629	1092.968
19.5	1160.080	1145.534	1106.523	1081.067	1080.736
20.0	1150.823	1134.955	1093.960	1067.843	1067.843
20.5	1141.567	1124.045	1081.397	1055.280	1055.280
21.0	1131.979	1113.135	1068.504	1042.056	1042.717
21.5	1122.061	1102.225	1055.610	1029.162	1029.823
22.0	1112.143	1091.315	1042.717	1016.269	1017.260
22.5	1102.556	1080.405	1029.823	1003.045	1004.367
23.0	1092.968	1069.165	1016.930	990.151	991.804
23.5	1083.381	1057.594	1003.706	976.927	979.241
24.0	1073.793	1046.684	990.812	963.703	966.678
24.5	1063.875	1035.113	977.919	951.140	954.446
25.0	1053.957	1023.873	965.025	938.247	942.214
25.5	1044.370	1012.632	951.801	925.684	929.982
26.0	1034.452	1001.392	939.239	912.790	918.080
26.5	1024.864	989.821	926.015	899.897	906.178

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-850-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1014.946	978.580	913.121	887.334	894.607
27.5	1005.359	967.340	900.228	875.102	882.706
28.0	995.771	956.099	887.665	862.870	871.135
28.5	985.853	944.859	875.102	850.637	860.225
29.0	975.935	933.618	862.539	838.736	848.654
29.5	966.348	922.708	850.307	826.834	837.413
30.0	956.760	911.468	837.744	814.932	826.834
30.5	947.504	900.228	825.512	803.361	815.924
31.0	938.247	889.318	812.949	791.790	805.345
31.5	928.329	878.408	801.047	780.550	794.766
32.0	918.741	867.167	788.815	769.309	784.187
32.5	909.154	856.258	776.583	758.069	773.938
33.0	899.236	845.678	764.681	746.829	763.689
33.5	889.979	834.769	752.779	735.919	753.771
34.0	880.061	823.859	740.878	725.339	743.853
34.5	870.473	813.279	729.637	714.430	733.935
35.0	860.886	802.370	718.066	704.181	724.348
35.5	851.629	791.460	706.495	693.602	714.760
36.0	842.042	780.880	694.924	683.353	705.173
36.5	832.454	770.301	684.014	673.104	695.916
37.0	822.867	759.722	673.104	662.856	686.659
37.5	813.279	749.473	662.195	652.938	677.402
38.0	804.023	739.225	651.615	643.350	668.145
38.5	794.435	728.645	641.036	633.763	659.219
39.0	784.517	718.066	630.457	624.506	650.293
39.5	775.260	708.148	620.208	614.919	641.697
40.0	765.673	697.900	610.290	605.992	633.102
40.5	756.416	687.982	600.372	596.736	624.506
41.0	746.498	677.733	590.785	587.809	615.910
41.5	737.241	668.145	581.197	579.214	607.645
42.0	727.654	658.227	571.610	570.618	599.050
42.5	718.397	648.640	562.353	562.022	590.785
43.0	708.809	638.722	553.096	553.096	582.850
43.5	699.222	629.134	544.170	544.831	574.585
44.0	689.635	619.547	535.244	536.566	566.651
44.5	680.378	609.960	526.648	528.301	558.716
45.0	670.790	600.703	517.722	520.036	550.451
45.5	661.203	591.115	509.126	512.102	542.517
46.0	651.946	581.528	500.861	503.837	534.582
46.5	642.689	572.271	492.596	495.902	526.648
47.0	633.432	563.014	484.331	487.968	518.383
47.5	623.845	553.757	476.066	480.364	510.449
48.0	614.257	544.500	468.132	472.429	502.514
48.5	604.670	535.244	459.867	464.495	494.580
49.0	595.744	526.317	452.263	456.561	486.645
49.5	585.826	517.061	444.328	448.957	479.041
50.0	576.569	508.134	436.394	441.022	471.107
50.5	567.312	499.208	428.790	433.418	463.503
51.0	557.725	490.282	421.186	425.815	455.569
51.5	548.468	481.025	413.913	417.880	447.304
52.0	538.550	472.099	406.309	410.276	439.700
52.5	529.293	463.173	399.036	402.672	431.765
53.0	520.036	454.577	392.093	395.399	423.831
53.5	510.779	445.651	384.820	387.795	415.897
54.0	501.192	437.055	377.547	380.192	407.962
54.5	491.935	428.790	370.604	372.918	400.028

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-850-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

55.0	482.678	420.194	363.662	365.645	392.754
55.5	473.421	411.599	356.719	358.372	385.151
56.0	464.164	403.334	349.776	351.099	377.216
56.5	455.238	395.069	342.834	344.156	369.612
57.0	446.312	386.804	336.222	336.883	362.009
57.5	437.055	378.539	329.577	329.742	354.405
58.0	428.129	370.604	322.832	322.733	347.131
58.5	419.203	362.339	316.253	315.625	339.858
59.0	410.276	354.405	309.542	308.649	332.254
59.5	401.681	346.470	302.963	301.773	324.783
60.0	392.754	338.536	296.318	294.896	317.609
60.5	384.159	330.601	289.673	288.086	310.600
61.0	375.563	322.799	283.160	281.210	303.426
61.5	366.637	315.096	276.383	274.465	296.417
62.0	358.372	307.426	269.837	267.721	289.574
62.5	349.776	299.922	263.159	261.076	282.565
63.0	341.181	292.384	256.547	254.530	275.490
63.5	333.246	285.078	249.968	248.050	268.878
64.0	324.651	277.639	243.190	241.570	262.068
64.5	316.055	270.300	236.545	235.190	255.390
65.0	307.228	263.159	229.867	229.008	248.844
65.5	298.831	255.852	223.321	222.925	242.298
66.0	290.499	248.546	216.875	216.775	235.190
66.5	282.400	241.438	210.494	210.891	228.644
67.0	274.300	234.231	204.212	205.072	222.197
67.5	266.035	227.189	197.997	199.220	215.850
68.0	257.439	220.247	192.013	193.468	209.436
68.5	249.042	213.535	186.228	187.715	203.320
69.0	241.075	206.692	180.508	181.996	197.005
69.5	233.305	200.047	174.888	176.376	190.757
70.0	225.437	193.567	169.334	170.855	184.575
70.5	217.833	187.021	163.846	165.433	178.624
71.0	210.031	180.574	158.457	160.011	172.607
71.5	202.593	174.227	153.135	154.655	166.755
72.0	195.022	167.979	147.812	149.333	160.937
72.5	187.649	161.664	142.489	144.076	155.151
73.0	180.277	155.449	137.299	138.786	149.465
73.5	173.103	149.267	132.075	133.563	143.745
74.0	166.028	143.117	126.885	128.306	138.059
74.5	158.920	137.034	121.760	123.149	132.472
75.0	151.944	130.984	116.768	117.992	126.918
75.5	144.969	125.000	111.776	112.966	121.298
76.0	138.125	119.050	106.685	107.875	115.876
76.5	131.381	113.099	101.759	102.850	110.355
77.0	124.802	107.082	96.899	97.858	104.933
77.5	118.223	101.296	91.973	93.031	99.544
78.0	111.710	95.775	87.080	88.171	94.221
78.5	105.263	90.221	82.320	83.411	88.932
79.0	99.015	84.832	77.559	78.683	83.774
79.5	93.031	79.543	72.865	73.956	78.650
80.0	87.080	74.484	68.170	69.228	73.559
80.5	81.262	69.459	63.509	64.566	68.864
81.0	75.575	64.533	58.913	60.136	64.335
81.5	70.054	59.839	54.351	56.004	60.169
82.0	64.765	55.243	49.954	52.037	56.070
82.5	59.707	50.846	45.590	48.334	52.004

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-850-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

83.0	54.913	46.549	41.490	44.796	48.036
83.5	50.284	42.449	37.722	41.226	44.201
84.0	45.987	38.548	34.283	37.689	40.433
84.5	41.722	34.746	31.176	34.217	36.796
85.0	37.689	31.110	28.233	30.812	33.292
85.5	33.821	27.638	25.489	27.539	29.886
86.0	29.986	24.266	22.878	24.465	26.845
86.5	26.250	21.125	20.398	21.721	24.101
87.0	22.514	18.315	18.084	19.373	21.555
87.5	18.778	15.770	16.034	17.390	19.340
88.0	15.108	13.356	14.117	15.571	17.357
88.5	11.836	11.042	12.133	13.753	15.439
89.0	8.827	8.530	9.720	11.141	12.331
89.5	5.455	5.422	6.513	8.364	9.720
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FRM-24-L25-850-DMA-DIM-UNV\_.IES\_.IES

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-L25-850-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-L25-850-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-L25-850-DMA-DIM-UNV\_.IES\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.50	N.A.	18.00
0-30	919.50	N.A.	35.40
0-40	1391.49	N.A.	53.50
0-60	2181.1	N.A.	83.90
0-80	2563.31	N.A.	98.60
0-90	2600.34	N.A.	100.00
10-90	2471.64	N.A.	95.10
20-40	923.00	N.A.	35.50
20-50	1357.28	N.A.	52.20
40-70	1037.81	N.A.	39.90
60-80	382.21	N.A.	14.70
70-80	134.00	N.A.	5.20
80-90	37.03	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	2600.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.70
10-20	339.79
20-30	451.01
30-40	471.99
40-50	434.28
50-60	355.32
60-70	248.20
70-80	134.00
80-90	37.03
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-L25-850-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-L25-850-DMA-DIM-UNV\_.IES\_.IES

## UGR TABLE - CORRECTED

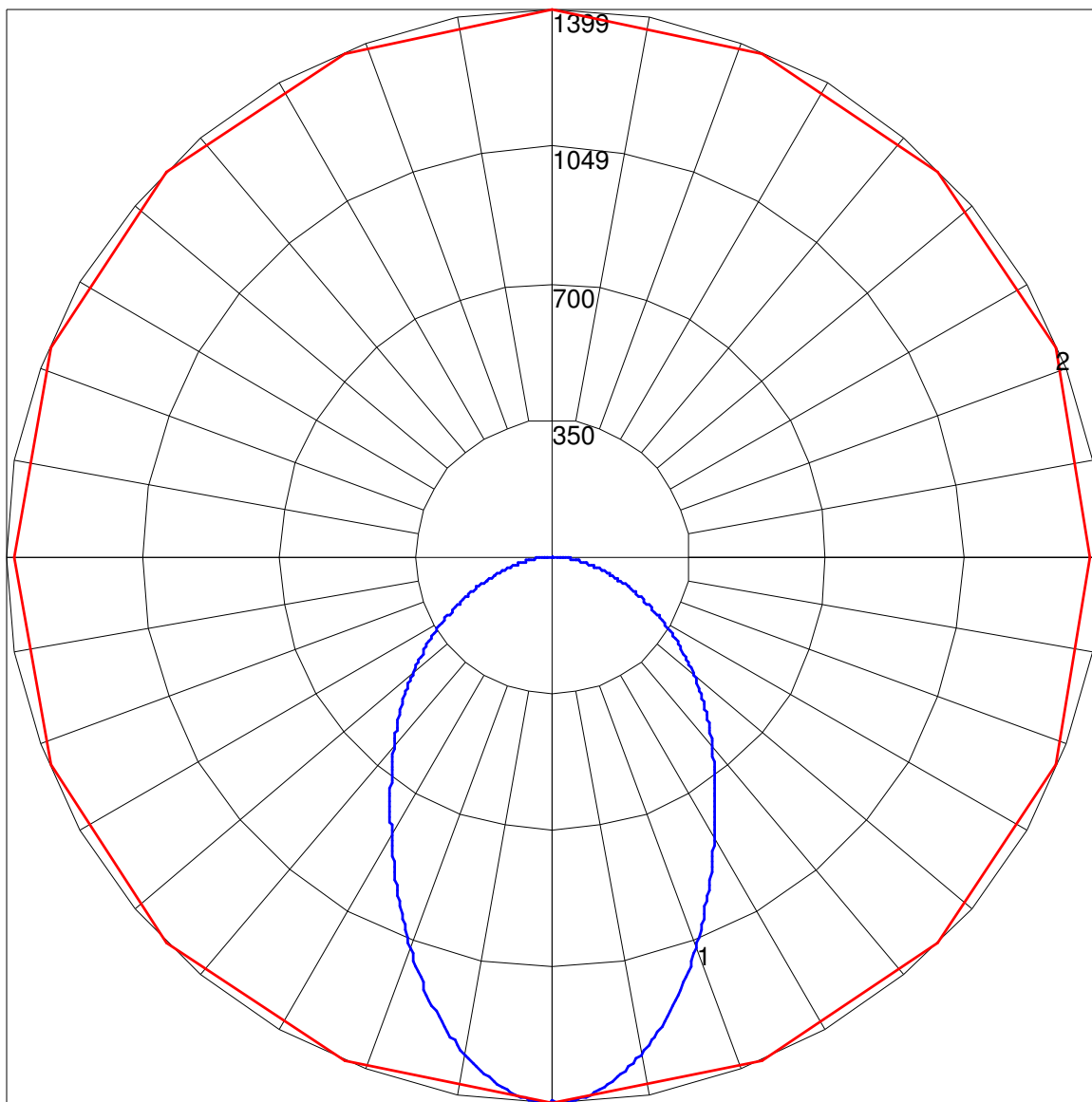
### Reflectances

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	12.1	13.7	12.5	14.0	14.3	11.1	12.6	11.4	12.9	13.2
	3H	13.8	15.2	14.2	15.5	15.9	12.7	14.1	13.1	14.4	14.8
	4H	14.4	15.7	14.8	16.1	16.4	13.3	14.6	13.7	15.0	15.3
	6H	14.8	16.0	15.3	16.4	16.8	13.7	14.9	14.2	15.3	15.7
	8H	15.0	16.1	15.4	16.5	16.9	13.9	15.0	14.3	15.4	15.8
	12H	15.1	16.1	15.5	16.5	17.0	14.0	15.1	14.4	15.5	15.9
4H	2H	12.5	13.8	12.9	14.1	14.5	11.6	12.9	12.0	13.2	13.6
	3H	14.4	15.4	14.8	15.8	16.2	13.4	14.5	13.8	14.9	15.3
	4H	15.1	16.1	15.5	16.5	16.9	14.1	15.1	14.6	15.5	16.0
	6H	15.6	16.5	16.1	16.9	17.4	14.7	15.6	15.2	16.0	16.5
	8H	15.8	16.6	16.3	17.0	17.5	14.9	15.7	15.3	16.1	16.6
	12H	15.9	16.6	16.4	17.1	17.6	15.0	15.7	15.5	16.2	16.7
8H	4H	15.3	16.0	15.7	16.5	17.0	14.4	15.2	14.9	15.6	16.1
	6H	15.9	16.5	16.4	17.0	17.5	15.1	15.7	15.6	16.2	16.7
	8H	16.1	16.7	16.6	17.2	17.7	15.3	15.9	15.8	16.4	16.9
	12H	16.3	16.8	16.8	17.3	17.9	15.5	16.0	16.0	16.5	17.1
12H	4H	15.3	16.0	15.7	16.4	16.9	14.4	15.1	14.9	15.6	16.1
	6H	15.9	16.5	16.4	17.0	17.5	15.1	15.7	15.6	16.2	16.7
	8H	16.2	16.7	16.7	17.2	17.8	15.4	15.9	15.9	16.4	17.0

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 1399.105 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.)