

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-830-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-L50-830-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	4972
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	52.8
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	2655	2049	2179
55	2355	1774	1916
65	2035	1522	1648
75	1643	1263	1372
85	1210	907	1069

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-830-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	2664.470	2664.470	2664.470	2664.470	2664.470
0.5	2633.495	2661.941	2670.791	2668.895	2675.216
1.0	2632.231	2660.677	2669.527	2667.630	2673.320
1.5	2630.966	2658.781	2667.630	2664.470	2670.791
2.0	2628.438	2656.252	2664.470	2660.677	2666.366
2.5	2625.277	2652.459	2660.045	2655.620	2661.309
3.0	2622.116	2648.666	2654.988	2649.931	2655.620
3.5	2617.059	2643.609	2649.298	2642.977	2648.666
4.0	2612.002	2637.920	2642.345	2635.391	2640.448
4.5	2606.313	2631.598	2634.759	2626.541	2630.966
5.0	2599.991	2624.645	2626.541	2617.059	2621.484
5.5	2593.038	2616.427	2617.059	2606.313	2610.738
6.0	2585.452	2607.577	2606.313	2595.567	2598.095
6.5	2576.602	2599.359	2594.934	2582.924	2586.084
7.0	2567.752	2589.877	2583.556	2570.281	2572.177
7.5	2558.902	2579.131	2570.913	2557.006	2557.638
8.0	2548.788	2567.752	2558.270	2542.467	2543.099
8.5	2538.042	2556.374	2543.731	2526.663	2527.295
9.0	2527.295	2544.363	2529.824	2510.860	2510.860
9.5	2516.549	2531.720	2515.285	2495.056	2494.424
10.0	2504.538	2518.445	2499.481	2477.988	2476.724
10.5	2492.528	2505.171	2483.678	2460.289	2457.760
11.0	2479.885	2490.631	2466.610	2441.957	2439.428
11.5	2467.242	2476.092	2449.542	2422.992	2420.464
12.0	2453.967	2460.921	2431.842	2403.396	2400.867
12.5	2440.060	2445.117	2413.510	2383.168	2381.271
13.0	2426.153	2429.314	2395.178	2362.939	2361.043
13.5	2411.614	2412.878	2376.214	2342.711	2341.446
14.0	2397.075	2395.810	2356.618	2321.218	2319.954
14.5	2381.903	2379.375	2336.389	2299.725	2297.829
15.0	2366.732	2362.307	2316.161	2276.968	2276.336
15.5	2351.561	2343.975	2295.300	2254.843	2254.211
16.0	2335.757	2326.275	2274.439	2232.718	2231.454
16.5	2319.954	2307.943	2252.315	2209.329	2208.697
17.0	2304.150	2288.979	2230.190	2186.572	2185.308
17.5	2287.714	2269.382	2208.065	2163.183	2161.919
18.0	2270.647	2249.786	2185.308	2139.161	2137.897
18.5	2252.947	2230.190	2161.919	2115.140	2113.876
19.0	2235.879	2210.593	2139.161	2091.119	2089.855
19.5	2218.179	2190.365	2115.772	2067.098	2066.465
20.0	2200.479	2170.136	2091.751	2041.812	2041.812
20.5	2182.779	2149.276	2067.730	2017.791	2017.791
21.0	2164.447	2128.415	2043.076	1992.505	1993.769
21.5	2145.483	2107.554	2018.423	1967.852	1969.116
22.0	2126.519	2086.694	1993.769	1943.198	1945.095
22.5	2108.187	2065.833	1969.116	1917.913	1920.441
23.0	2089.855	2044.341	1944.462	1893.259	1896.420
23.5	2071.523	2022.216	1919.177	1867.973	1872.398
24.0	2053.190	2001.355	1894.523	1842.688	1848.377
24.5	2034.226	1979.230	1869.870	1818.667	1824.988
25.0	2015.262	1957.737	1845.216	1794.013	1801.599
25.5	1996.930	1936.245	1819.931	1769.992	1778.210
26.0	1977.966	1914.752	1795.910	1745.338	1755.453
26.5	1959.634	1892.627	1770.624	1720.685	1732.696

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27.0	1940.670	1871.134	1745.970	1696.664	1710.571
27.5	1922.338	1849.641	1721.317	1673.274	1687.814
28.0	1904.005	1828.149	1697.296	1649.885	1665.689
28.5	1885.041	1806.656	1673.274	1626.496	1644.828
29.0	1866.077	1785.163	1649.253	1603.739	1622.703
29.5	1847.745	1764.303	1625.864	1580.982	1601.210
30.0	1829.413	1742.810	1601.843	1558.225	1580.982
30.5	1811.713	1721.317	1578.453	1536.100	1560.121
31.0	1794.013	1700.456	1554.432	1513.975	1539.893
31.5	1775.049	1679.596	1531.675	1492.482	1519.664
32.0	1756.717	1658.103	1508.286	1470.990	1499.436
32.5	1738.385	1637.242	1484.897	1449.497	1479.840
33.0	1719.421	1617.014	1462.140	1428.004	1460.243
33.5	1701.721	1596.153	1439.383	1407.143	1441.279
34.0	1682.756	1575.293	1416.626	1386.915	1422.315
34.5	1664.424	1555.064	1395.133	1366.054	1403.351
35.0	1646.092	1534.204	1373.008	1346.458	1385.019
35.5	1628.392	1513.343	1350.883	1326.230	1366.687
36.0	1610.060	1493.114	1328.758	1306.633	1348.354
36.5	1591.728	1472.886	1307.897	1287.037	1330.655
37.0	1573.396	1452.658	1287.037	1267.441	1312.955
37.5	1555.064	1433.061	1266.176	1248.476	1295.255
38.0	1537.364	1413.465	1245.948	1230.144	1277.555
38.5	1519.032	1393.236	1225.719	1211.812	1260.487
39.0	1500.068	1373.008	1205.491	1194.112	1243.419
39.5	1482.368	1354.044	1185.894	1175.780	1226.984
40.0	1464.036	1334.447	1166.930	1158.712	1210.548
40.5	1446.336	1315.483	1147.966	1141.013	1194.112
41.0	1427.372	1295.887	1129.634	1123.945	1177.677
41.5	1409.672	1277.555	1111.302	1107.509	1161.873
42.0	1391.340	1258.591	1092.970	1091.074	1145.438
42.5	1373.640	1240.259	1075.270	1074.638	1129.634
43.0	1355.308	1221.294	1057.570	1057.570	1114.463
43.5	1336.976	1202.962	1040.502	1041.767	1098.659
44.0	1318.644	1184.630	1023.435	1025.963	1083.488
44.5	1300.944	1166.298	1006.999	1010.160	1068.316
45.0	1282.612	1148.598	989.931	994.356	1052.513
45.5	1264.280	1130.266	973.495	979.185	1037.342
46.0	1246.580	1111.934	957.692	963.381	1022.170
46.5	1228.880	1094.234	941.888	948.210	1006.999
47.0	1211.180	1076.534	926.085	933.039	991.195
47.5	1192.848	1058.834	910.281	918.499	976.024
48.0	1174.516	1041.134	895.110	903.328	960.853
48.5	1156.184	1023.435	879.307	888.157	945.681
49.0	1139.116	1006.367	864.767	872.985	930.510
49.5	1120.152	988.667	849.596	858.446	915.971
50.0	1102.452	971.599	834.425	843.275	900.799
50.5	1084.752	954.531	819.885	828.735	886.260
51.0	1066.420	937.464	805.346	814.196	871.089
51.5	1048.720	919.764	791.439	799.025	855.285
52.0	1029.756	902.696	776.900	784.486	840.746
52.5	1012.056	885.628	762.993	769.946	825.575
53.0	994.356	869.192	749.718	756.039	810.403
53.5	976.656	852.125	735.811	741.500	795.232
54.0	958.324	835.689	721.904	726.961	780.061
54.5	940.624	819.885	708.629	713.054	764.889

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55.0	922.924	803.450	695.354	699.147	750.982
55.5	905.224	787.014	682.079	685.240	736.443
56.0	887.524	771.211	668.804	671.333	721.272
56.5	870.457	755.407	655.529	658.058	706.732
57.0	853.389	739.604	642.886	644.151	692.193
57.5	835.689	723.800	630.180	630.496	677.654
58.0	818.621	708.629	617.285	617.095	663.747
58.5	801.553	692.825	604.705	603.504	649.840
59.0	784.486	677.654	591.873	590.166	635.301
59.5	768.050	662.483	579.293	577.017	621.014
60.0	750.982	647.311	566.587	563.869	607.297
60.5	734.547	632.140	553.881	550.847	593.895
61.0	718.111	617.221	541.428	537.698	580.178
61.5	701.043	602.493	528.469	524.803	566.777
62.0	685.240	587.827	515.953	511.907	553.691
62.5	668.804	573.477	503.183	499.201	540.290
63.0	652.368	559.065	490.541	486.685	526.762
63.5	637.197	545.094	477.961	474.295	514.119
64.0	620.761	530.871	465.002	461.905	501.097
64.5	604.326	516.838	452.296	449.704	488.328
65.0	587.448	503.183	439.527	437.883	475.812
65.5	571.391	489.213	427.011	426.252	463.295
66.0	555.461	475.243	414.684	414.494	449.704
66.5	539.974	461.652	402.483	403.242	437.188
67.0	524.486	447.871	390.473	392.116	424.861
67.5	508.683	434.407	378.589	380.928	412.724
68.0	492.247	421.132	367.147	369.928	400.461
68.5	476.191	408.299	356.084	358.929	388.766
69.0	460.956	395.214	345.148	347.993	376.692
69.5	446.101	382.508	334.402	337.247	364.745
70.0	431.056	370.118	323.782	326.690	352.924
70.5	416.517	357.602	313.289	316.323	341.545
71.0	401.598	345.275	302.985	305.956	330.040
71.5	387.375	333.138	292.807	295.715	318.851
72.0	372.899	321.190	282.630	285.538	307.726
72.5	358.803	309.116	272.452	275.487	296.663
73.0	344.706	297.232	262.528	265.372	285.790
73.5	330.988	285.411	252.540	255.385	274.854
74.0	317.461	273.653	242.615	245.334	263.982
74.5	303.870	262.022	232.817	235.472	253.298
75.0	290.532	250.454	223.272	225.611	242.679
75.5	277.193	239.012	213.727	216.002	231.932
76.0	264.108	227.634	203.992	206.267	221.565
76.5	251.212	216.255	194.573	196.659	211.008
77.0	238.633	204.750	185.280	187.113	200.641
77.5	226.053	193.688	175.861	177.884	190.337
78.0	213.600	183.131	166.506	168.592	180.160
78.5	201.273	172.511	157.403	159.489	170.046
79.0	189.326	162.207	148.300	150.449	160.184
79.5	177.884	152.093	139.324	141.410	150.386
80.0	166.506	142.421	130.347	132.370	140.651
80.5	155.380	132.813	121.434	123.457	131.675
81.0	144.507	123.394	112.647	114.986	123.014
81.5	133.950	114.417	103.924	107.085	115.049
82.0	123.836	105.631	95.516	99.499	107.211
82.5	114.164	97.223	87.172	92.419	99.436

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-830-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

83.0	104.998	89.005	79.334	85.655	91.850
83.5	96.148	81.167	72.127	78.828	84.517
84.0	87.931	73.708	65.553	72.064	77.311
84.5	79.776	66.438	59.611	65.426	70.357
85.0	72.064	59.484	53.985	58.915	63.656
85.5	64.668	52.847	48.738	52.657	57.145
86.0	57.335	46.399	43.744	46.778	51.330
86.5	50.192	40.394	39.003	41.532	46.083
87.0	43.049	35.021	34.578	37.043	41.216
87.5	35.906	30.153	30.659	33.251	36.980
88.0	28.889	25.538	26.992	29.774	33.187
88.5	22.631	21.113	23.200	26.297	29.521
89.0	16.878	16.309	18.585	21.303	23.579
89.5	10.430	10.367	12.453	15.993	18.585
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-L50-830-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-L50-830-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-L50-830-DMA-DIM-UNV_.IES_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	895.81	N.A.	18.00
0-30	1758.18	N.A.	35.40
0-40	2660.66	N.A.	53.50
0-60	4170.46	N.A.	83.90
0-80	4901.28	N.A.	98.60
0-90	4972.08	N.A.	100.00
10-90	4725.99	N.A.	95.10
20-40	1764.86	N.A.	35.50
20-50	2595.25	N.A.	52.20
40-70	1984.38	N.A.	39.90
60-80	730.81	N.A.	14.70
70-80	256.23	N.A.	5.20
80-90	70.81	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	4972.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.09
10-20	649.72
20-30	862.37
30-40	902.49
40-50	830.39
50-60	679.41
60-70	474.58
70-80	256.23
80-90	70.81
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-L50-830-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-L50-830-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

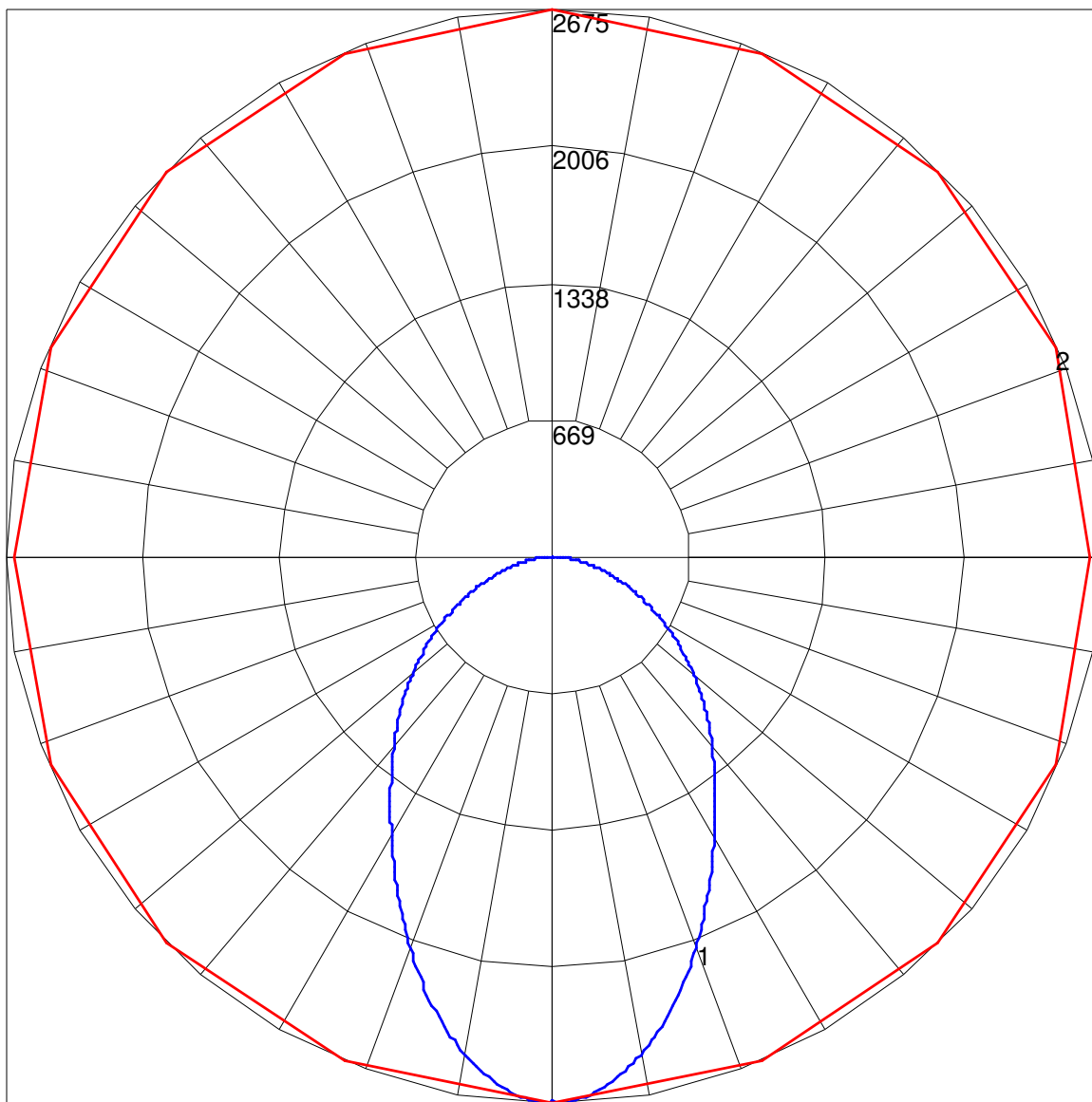
Reflectances

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	14.4	16.0	14.8	16.3	16.6	13.4	14.9	13.7	15.2	15.5
	3H	16.1	17.5	16.5	17.8	18.2	15.0	16.4	15.4	16.7	17.1
	4H	16.7	18.0	17.1	18.4	18.7	15.6	16.9	16.0	17.3	17.6
	6H	17.1	18.3	17.6	18.7	19.1	16.0	17.2	16.5	17.6	18.0
	8H	17.3	18.4	17.7	18.8	19.2	16.2	17.3	16.6	17.7	18.1
	12H	17.4	18.4	17.8	18.8	19.3	16.3	17.4	16.7	17.8	18.2
4H	2H	14.8	16.1	15.2	16.4	16.8	13.9	15.2	14.3	15.5	15.9
	3H	16.7	17.7	17.1	18.1	18.5	15.7	16.8	16.1	17.2	17.6
	4H	17.4	18.4	17.8	18.8	19.2	16.4	17.4	16.9	17.8	18.3
	6H	17.9	18.8	18.4	19.2	19.7	17.0	17.9	17.5	18.3	18.8
	8H	18.1	18.9	18.6	19.3	19.8	17.2	18.0	17.6	18.4	18.9
	12H	18.2	18.9	18.7	19.4	19.9	17.3	18.0	17.8	18.5	19.0
8H	4H	17.6	18.3	18.0	18.8	19.3	16.7	17.5	17.2	17.9	18.4
	6H	18.2	18.8	18.7	19.3	19.8	17.4	18.0	17.9	18.5	19.0
	8H	18.4	19.0	18.9	19.5	20.0	17.6	18.2	18.1	18.7	19.2
	12H	18.6	19.1	19.1	19.6	20.2	17.8	18.3	18.3	18.8	19.4
12H	4H	17.6	18.3	18.0	18.7	19.2	16.7	17.4	17.2	17.9	18.4
	6H	18.2	18.8	18.7	19.3	19.8	17.4	18.0	17.9	18.5	19.0
	8H	18.5	19.0	19.0	19.5	20.1	17.7	18.2	18.2	18.7	19.3

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 2675.216 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.)