

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-835-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15746385.02
[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-22-L50-835-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	5047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	53.9
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	4947	4288	5040
55	4358	3721	4426
65	3759	3181	3799
75	3066	2650	3145
85	2145	1621	2145

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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	2709.456	2709.456	2709.456	2709.456	2709.456
0.5	2699.107	2710.749	2715.277	2710.102	2699.107
1.0	2697.166	2709.456	2713.336	2709.456	2697.166
1.5	2695.226	2706.868	2711.396	2706.868	2695.226
2.0	2691.992	2703.634	2708.162	2702.988	2691.345
2.5	2687.464	2699.754	2703.634	2699.107	2687.464
3.0	2682.937	2694.579	2698.460	2693.932	2682.937
3.5	2677.115	2688.111	2691.992	2688.111	2676.469
4.0	2670.001	2680.996	2684.877	2681.643	2670.647
4.5	2662.239	2673.235	2677.115	2673.881	2663.533
5.0	2653.184	2664.179	2668.707	2665.473	2655.124
5.5	2643.482	2654.477	2659.005	2657.065	2646.716
6.0	2633.780	2643.482	2648.656	2647.363	2637.661
6.5	2622.137	2632.486	2637.661	2636.367	2627.312
7.0	2609.848	2620.197	2625.371	2624.724	2616.316
7.5	2596.912	2607.261	2612.435	2613.082	2604.674
8.0	2583.976	2593.031	2598.852	2600.793	2593.031
8.5	2569.746	2578.802	2585.270	2587.210	2579.448
9.0	2554.870	2563.278	2570.393	2572.980	2566.512
9.5	2539.993	2548.402	2554.870	2558.751	2552.283
10.0	2524.470	2532.232	2538.700	2543.227	2537.406
10.5	2508.300	2515.415	2523.176	2527.704	2523.176
11.0	2491.483	2498.598	2505.713	2511.534	2508.947
11.5	2474.020	2480.488	2488.249	2494.070	2492.777
12.0	2456.556	2462.377	2469.492	2477.254	2476.607
12.5	2439.092	2443.620	2450.735	2459.790	2459.790
13.0	2419.688	2424.863	2431.977	2441.679	2442.973
13.5	2402.224	2405.458	2412.573	2423.569	2426.156
14.0	2383.467	2386.054	2392.522	2405.458	2408.692
14.5	2363.416	2366.003	2371.825	2386.054	2390.582
15.0	2343.365	2345.953	2350.480	2366.650	2372.472
15.5	2323.961	2325.255	2329.136	2347.246	2353.714
16.0	2303.910	2303.910	2307.144	2327.195	2334.957
16.5	2283.213	2283.213	2285.800	2306.498	2315.553
17.0	2262.515	2261.221	2262.515	2285.153	2295.502
17.5	2241.817	2239.230	2239.877	2264.455	2276.745
18.0	2220.473	2217.239	2216.592	2242.464	2256.694
18.5	2199.128	2194.601	2193.307	2220.473	2235.996
19.0	2177.784	2171.316	2169.376	2198.482	2215.299
19.5	2156.439	2148.678	2145.444	2175.844	2193.954
20.0	2135.095	2125.393	2121.512	2152.559	2173.256
20.5	2112.457	2101.461	2096.934	2129.921	2151.912
21.0	2090.466	2078.176	2071.708	2106.636	2131.214
21.5	2067.828	2054.891	2046.483	2083.351	2109.223
22.0	2045.836	2031.607	2021.905	2059.419	2086.585
22.5	2024.492	2007.675	1996.679	2036.134	2065.240
23.0	2001.854	1983.743	1972.101	2012.203	2043.249
23.5	1980.509	1960.458	1946.875	1988.918	2021.258
24.0	1959.812	1937.173	1922.297	1965.633	1999.266
24.5	1937.820	1913.242	1897.072	1941.701	1977.922
25.0	1916.476	1889.957	1871.846	1917.769	1956.578
25.5	1895.131	1866.672	1846.621	1893.838	1935.233
26.0	1873.787	1844.034	1822.043	1871.200	1915.182
26.5	1853.089	1821.396	1797.464	1847.915	1893.191

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27.0	1832.391	1798.758	1772.886	1825.277	1873.140
27.5	1811.694	1776.120	1748.307	1802.639	1852.442
28.0	1792.290	1754.128	1723.729	1780.000	1831.745
28.5	1771.592	1732.137	1699.797	1757.362	1811.694
29.0	1752.188	1710.146	1675.865	1734.724	1791.643
29.5	1732.137	1688.801	1651.287	1712.086	1770.945
30.0	1712.086	1666.810	1627.355	1690.095	1750.894
30.5	1692.682	1645.466	1603.423	1668.104	1730.843
31.0	1673.278	1624.121	1579.492	1646.112	1711.439
31.5	1653.874	1602.777	1556.207	1624.121	1691.388
32.0	1633.823	1582.079	1532.922	1602.777	1671.984
32.5	1614.419	1561.381	1510.284	1580.785	1652.580
33.0	1595.662	1540.037	1486.999	1558.794	1632.529
33.5	1576.258	1519.986	1464.361	1537.450	1613.125
34.0	1557.500	1498.641	1441.723	1516.105	1593.075
34.5	1538.743	1478.590	1419.731	1494.114	1574.317
35.0	1520.633	1457.893	1397.740	1472.769	1554.913
35.5	1501.875	1437.842	1375.749	1452.072	1534.862
36.0	1483.765	1417.791	1354.404	1431.374	1516.105
36.5	1465.654	1397.740	1333.060	1410.676	1497.348
37.0	1447.544	1378.336	1311.715	1389.979	1477.944
37.5	1429.433	1358.932	1291.018	1369.281	1458.540
38.0	1411.970	1340.175	1270.967	1349.877	1439.782
38.5	1394.506	1321.417	1250.916	1329.826	1421.025
39.0	1376.396	1302.013	1230.865	1310.422	1402.915
39.5	1359.579	1283.256	1211.461	1291.018	1384.804
40.0	1342.115	1265.146	1192.057	1271.614	1366.694
40.5	1324.005	1247.035	1173.300	1252.210	1348.583
41.0	1306.541	1228.925	1154.542	1233.452	1330.473
41.5	1289.724	1210.814	1136.432	1215.342	1313.009
42.0	1272.260	1193.997	1117.675	1196.585	1295.545
42.5	1254.797	1175.887	1099.564	1179.121	1278.082
43.0	1237.333	1159.070	1082.101	1161.010	1260.618
43.5	1220.516	1141.606	1064.637	1143.547	1243.154
44.0	1203.699	1124.790	1047.173	1126.083	1225.691
44.5	1186.883	1107.973	1030.356	1107.973	1208.227
45.0	1169.419	1091.156	1013.539	1090.509	1191.410
45.5	1152.602	1073.692	996.723	1073.692	1173.947
46.0	1135.785	1057.522	979.906	1056.228	1156.483
46.5	1118.321	1040.705	963.736	1038.765	1139.666
47.0	1101.505	1023.888	947.566	1021.301	1121.556
47.5	1084.041	1007.071	931.396	1004.484	1104.739
48.0	1067.224	990.255	915.872	987.667	1087.275
48.5	1051.054	974.085	900.349	970.851	1069.811
49.0	1034.237	957.268	884.826	954.034	1052.994
49.5	1017.420	941.098	869.949	937.217	1034.884
50.0	1000.603	924.281	854.426	920.400	1018.067
50.5	983.787	908.111	839.550	903.583	1000.603
51.0	966.970	891.941	825.320	887.413	983.787
51.5	950.153	875.124	811.090	871.243	966.323
52.0	933.983	859.601	796.861	855.073	949.506
52.5	917.166	843.430	782.631	838.903	932.689
53.0	900.996	827.907	768.401	822.733	915.226
53.5	884.179	811.737	754.172	807.210	898.409
54.0	867.362	796.861	740.589	791.686	881.592
54.5	851.839	781.337	727.006	776.163	864.775

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55.0	835.669	765.814	713.423	760.640	848.605
55.5	819.499	750.938	700.487	745.763	833.082
56.0	803.329	736.061	686.904	730.887	816.912
56.5	787.159	721.185	673.321	715.364	800.095
57.0	771.635	706.955	660.385	700.487	784.571
57.5	755.465	692.079	646.802	686.257	768.401
58.0	739.942	677.202	633.672	672.028	752.231
58.5	724.419	662.973	620.736	657.151	736.061
59.0	708.249	648.743	607.736	643.051	719.891
59.5	692.725	634.125	594.735	628.433	704.368
60.0	677.202	619.572	581.475	613.816	688.198
60.5	662.326	604.954	568.475	599.392	672.675
61.0	648.096	590.466	555.668	585.033	657.151
61.5	633.026	576.236	542.538	570.609	641.951
62.0	618.667	562.524	529.473	556.574	626.946
62.5	604.178	549.006	516.213	542.409	612.328
63.0	589.690	535.682	502.566	528.761	597.128
63.5	575.007	522.034	488.853	515.631	582.058
64.0	560.260	508.516	475.594	501.854	566.922
64.5	545.772	495.192	462.528	488.465	551.723
65.0	531.025	481.868	449.398	475.529	536.717
65.5	515.760	468.738	436.592	462.528	522.164
66.0	501.143	455.672	423.591	450.110	507.546
66.5	486.266	442.672	410.590	437.562	492.346
67.0	472.360	429.800	397.978	425.079	478.440
67.5	458.389	417.058	385.624	413.048	464.340
68.0	444.483	404.640	373.981	401.018	450.563
68.5	430.512	392.350	362.921	388.793	436.850
69.0	416.929	380.126	352.378	376.956	423.720
69.5	403.928	368.160	341.964	365.314	410.720
70.0	390.539	356.323	331.551	353.930	397.331
70.5	377.539	344.358	321.202	342.611	384.201
71.0	364.538	332.521	310.789	331.551	371.459
71.5	351.602	320.943	300.310	320.361	358.911
72.0	338.795	309.560	290.026	309.301	346.039
72.5	326.247	298.176	279.807	298.435	333.427
73.0	313.699	286.986	269.717	287.633	320.879
73.5	301.410	275.732	259.627	276.702	308.589
74.0	289.250	264.672	249.601	265.771	296.688
74.5	277.155	253.482	239.446	254.905	284.270
75.0	265.254	242.422	229.291	244.168	272.110
75.5	253.288	231.361	219.395	233.431	259.885
76.0	241.516	220.236	209.370	222.565	247.790
76.5	230.003	209.241	199.474	211.569	235.695
77.0	218.361	198.374	189.513	200.509	223.729
77.5	206.783	187.443	179.811	189.966	211.763
78.0	195.334	177.030	170.238	179.682	200.056
78.5	183.951	166.875	160.601	169.398	188.608
79.0	172.632	156.656	151.093	159.566	176.836
79.5	161.571	146.436	141.650	149.670	165.517
80.0	150.640	136.540	132.142	139.774	154.262
80.5	139.903	126.903	122.892	130.007	143.202
81.0	129.555	117.330	113.708	120.370	132.530
81.5	119.723	107.951	104.847	110.927	122.116
82.0	109.956	98.831	95.856	101.677	112.091
82.5	100.966	90.164	86.930	92.751	102.518

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CANDELA TABULATION - (Cont.)

83.0	92.428	82.144	77.875	84.149	93.463
83.5	84.602	74.770	69.143	75.999	84.860
84.0	77.034	67.979	60.929	68.496	76.969
84.5	69.661	61.576	53.426	61.511	69.596
85.0	62.481	55.560	47.217	55.043	62.481
85.5	55.237	49.416	42.172	48.640	55.625
86.0	48.510	43.400	37.903	42.560	48.834
86.5	42.042	37.579	33.957	36.803	42.754
87.0	36.350	32.017	30.206	31.564	37.256
87.5	30.917	27.036	26.454	27.166	32.340
88.0	25.937	22.767	22.509	23.414	27.748
88.5	21.021	18.757	17.981	19.469	23.156
89.0	14.747	13.518	11.966	13.389	17.334
89.5	5.821	6.403	5.627	5.951	8.085
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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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-L50-835-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-L50-835-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-L50-835-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	909.96	N.A.	18.00
0-30	1785.46	N.A.	35.40
0-40	2703.19	N.A.	53.60
0-60	4237.98	N.A.	84.00
0-80	4980.32	N.A.	98.70
0-90	5047.04	N.A.	100.00
10-90	4796.9	N.A.	95.00
20-40	1793.24	N.A.	35.50
20-50	2637.74	N.A.	52.30
40-70	2016.63	N.A.	40.00
60-80	742.34	N.A.	14.70
70-80	260.50	N.A.	5.20
80-90	66.72	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	5047.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	250.14
10-20	659.82
20-30	875.51
30-40	917.73
40-50	844.50
50-60	690.29
60-70	481.84
70-80	260.50
80-90	66.72
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-L50-835-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-L50-835-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

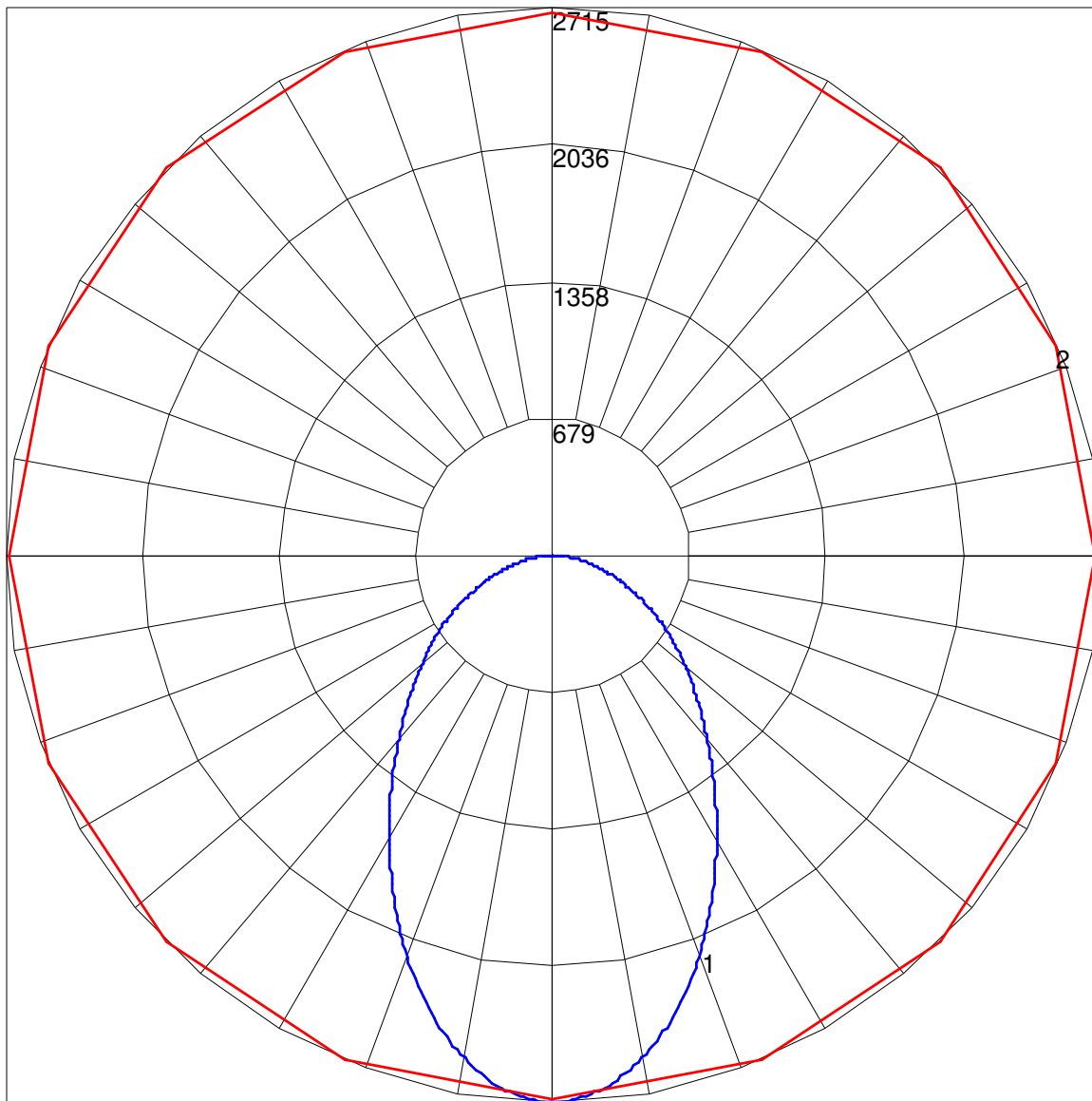
Reflectances

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	16.4	17.9	16.8	18.3	18.6	16.4	17.9	16.8	18.2	18.5
	3H	18.0	19.4	18.4	19.8	20.1	18.0	19.4	18.4	19.7	20.1
	4H	18.6	19.9	19.0	20.3	20.7	18.7	20.0	19.1	20.3	20.7
	6H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.7	21.0
	8H	19.2	20.3	19.6	20.7	21.1	19.2	20.4	19.7	20.7	21.1
	12H	19.2	20.3	19.7	20.7	21.1	19.3	20.4	19.7	20.8	21.2
4H	2H	16.8	18.1	17.2	18.5	18.9	16.8	18.1	17.2	18.5	18.8
	3H	18.7	19.8	19.1	20.2	20.6	18.7	19.8	19.1	20.2	20.6
	4H	19.4	20.4	19.8	20.8	21.2	19.4	20.4	19.8	20.8	21.2
	6H	19.9	20.8	20.4	21.2	21.7	20.0	20.8	20.4	21.3	21.7
	8H	20.1	20.9	20.6	21.3	21.8	20.1	20.9	20.6	21.4	21.8
	12H	20.2	20.9	20.7	21.4	21.9	20.3	21.0	20.7	21.4	21.9
8H	4H	19.6	20.4	20.1	20.9	21.3	19.6	20.4	20.1	20.9	21.3
	6H	20.2	20.9	20.7	21.4	21.9	20.3	20.9	20.8	21.4	21.9
	8H	20.4	21.0	21.0	21.5	22.0	20.5	21.1	21.0	21.6	22.1
	12H	20.6	21.1	21.1	21.6	22.2	20.7	21.2	21.2	21.7	22.2
12H	4H	19.6	20.3	20.1	20.8	21.3	19.7	20.4	20.1	20.8	21.3
	6H	20.3	20.9	20.8	21.3	21.9	20.3	20.9	20.8	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.1

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 2715.277 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.)