

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-850-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-L50-850-DMA-DIM-UNV
[LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5350
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	5244	4545	5343
55	4620	3944	4691
65	3984	3372	4027
75	3250	2809	3334
85	2273	1718	2273

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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	2872.023	2872.023	2872.023	2872.023	2872.023
0.5	2861.053	2873.394	2878.194	2872.709	2861.053
1.0	2858.997	2872.023	2876.137	2872.023	2858.997
1.5	2856.940	2869.281	2874.080	2869.281	2856.940
2.0	2853.512	2865.853	2870.652	2865.167	2852.826
2.5	2848.713	2861.739	2865.853	2861.053	2848.713
3.0	2843.913	2856.254	2860.368	2855.569	2843.913
3.5	2837.743	2849.398	2853.512	2849.398	2837.057
4.0	2830.201	2841.856	2845.970	2842.542	2830.887
4.5	2821.974	2833.629	2837.743	2834.315	2823.345
5.0	2812.375	2824.031	2828.830	2825.402	2814.432
5.5	2802.091	2813.746	2818.546	2816.489	2805.519
6.0	2791.807	2802.091	2807.576	2806.205	2795.920
6.5	2779.466	2790.436	2795.920	2794.549	2784.951
7.0	2766.439	2777.409	2782.894	2782.208	2773.295
7.5	2752.727	2763.697	2769.182	2769.867	2760.954
8.0	2739.015	2748.613	2754.784	2756.841	2748.613
8.5	2723.931	2733.530	2740.386	2742.443	2734.216
9.0	2708.162	2717.075	2724.617	2727.359	2720.503
9.5	2692.393	2701.306	2708.162	2712.276	2705.420
10.0	2675.939	2684.166	2691.022	2695.821	2689.651
10.5	2658.798	2666.340	2674.567	2679.367	2674.567
11.0	2640.972	2648.514	2656.056	2662.226	2659.484
11.5	2622.461	2629.317	2637.544	2643.715	2642.344
12.0	2603.949	2610.120	2617.662	2625.889	2625.203
12.5	2585.438	2590.237	2597.779	2607.378	2607.378
13.0	2564.870	2570.355	2577.896	2588.180	2589.552
13.5	2546.358	2549.786	2557.328	2568.983	2571.726
14.0	2526.475	2529.218	2536.074	2549.786	2553.214
14.5	2505.222	2507.964	2514.134	2529.218	2534.017
15.0	2483.968	2486.710	2491.509	2508.650	2514.820
15.5	2463.399	2464.771	2468.884	2488.081	2494.937
16.0	2442.145	2442.145	2445.573	2466.827	2475.055
16.5	2420.206	2420.206	2422.948	2444.888	2454.486
17.0	2398.266	2396.895	2398.266	2422.263	2433.232
17.5	2376.327	2373.584	2374.270	2400.323	2413.350
18.0	2353.702	2350.274	2349.588	2377.012	2392.096
18.5	2331.076	2326.277	2324.906	2353.702	2370.156
19.0	2308.451	2301.595	2299.538	2330.391	2348.217
19.5	2285.826	2277.599	2274.171	2306.394	2325.592
20.0	2263.201	2252.917	2248.803	2281.712	2303.652
20.5	2239.205	2227.549	2222.750	2257.716	2281.027
21.0	2215.894	2202.867	2196.011	2233.034	2259.087
21.5	2191.897	2178.185	2169.272	2208.352	2235.777
22.0	2168.587	2153.503	2143.219	2182.985	2211.780
22.5	2145.962	2128.136	2116.480	2158.303	2189.155
23.0	2121.965	2102.768	2090.427	2132.935	2165.844
23.5	2099.340	2078.086	2063.688	2108.253	2142.533
24.0	2077.400	2053.404	2037.635	2083.571	2119.223
24.5	2054.090	2028.036	2010.896	2058.203	2096.598
25.0	2031.465	2003.354	1984.157	2032.836	2073.972
25.5	2008.839	1978.673	1957.419	2007.468	2051.347
26.0	1986.214	1954.676	1931.365	1983.472	2030.093
26.5	1964.275	1930.680	1905.312	1958.790	2006.783

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-850-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	1942.335	1906.683	1879.259	1934.793	1985.529
27.5	1920.396	1882.687	1853.206	1910.797	1963.589
28.0	1899.827	1859.376	1827.153	1886.801	1941.650
28.5	1877.888	1836.065	1801.785	1862.804	1920.396
29.0	1857.319	1812.755	1776.417	1838.808	1899.142
29.5	1836.065	1790.130	1750.364	1814.812	1877.202
30.0	1814.812	1766.819	1724.997	1791.501	1855.948
30.5	1794.243	1744.194	1699.629	1768.190	1834.694
31.0	1773.675	1721.568	1674.261	1744.879	1814.126
31.5	1753.107	1698.943	1649.579	1721.568	1792.872
32.0	1731.853	1677.004	1624.897	1698.943	1772.304
32.5	1711.284	1655.064	1600.901	1675.633	1751.735
33.0	1691.402	1632.439	1576.219	1652.322	1730.481
33.5	1670.833	1611.185	1552.223	1629.697	1709.913
34.0	1650.951	1588.560	1528.226	1607.072	1688.659
34.5	1631.068	1567.306	1504.916	1583.761	1668.776
35.0	1611.871	1545.367	1481.605	1561.136	1648.208
35.5	1591.988	1524.113	1458.294	1539.196	1626.954
36.0	1572.791	1502.859	1435.669	1517.257	1607.072
36.5	1553.594	1481.605	1413.044	1495.317	1587.189
37.0	1534.397	1461.036	1390.419	1473.377	1566.620
37.5	1515.200	1440.468	1368.479	1451.438	1546.052
38.0	1496.688	1420.585	1347.225	1430.870	1526.169
38.5	1478.177	1400.703	1325.971	1409.616	1506.287
39.0	1458.980	1380.134	1304.717	1389.047	1487.090
39.5	1441.154	1360.252	1284.149	1368.479	1467.893
40.0	1422.642	1341.055	1263.581	1347.911	1448.695
40.5	1403.445	1321.857	1243.698	1327.342	1429.498
41.0	1384.934	1302.660	1223.815	1307.460	1410.301
41.5	1367.108	1283.463	1204.618	1288.263	1391.790
42.0	1348.596	1265.637	1184.735	1268.380	1373.278
42.5	1330.085	1246.440	1165.538	1249.868	1354.767
43.0	1311.573	1228.614	1147.027	1230.671	1336.255
43.5	1293.747	1210.103	1128.515	1212.160	1317.744
44.0	1275.922	1192.277	1110.004	1193.648	1299.232
44.5	1258.096	1174.451	1092.178	1174.451	1280.721
45.0	1239.584	1156.625	1074.352	1155.940	1262.895
45.5	1221.758	1138.114	1056.526	1138.114	1244.383
46.0	1203.932	1120.974	1038.700	1119.602	1225.872
46.5	1185.421	1103.148	1021.560	1101.091	1208.046
47.0	1167.595	1085.322	1004.420	1082.579	1188.849
47.5	1149.084	1067.496	987.279	1064.753	1171.023
48.0	1131.258	1049.670	970.825	1046.928	1152.512
48.5	1114.117	1032.530	954.370	1029.102	1134.000
49.0	1096.292	1014.704	937.915	1011.276	1116.174
49.5	1078.466	997.564	922.146	993.450	1096.977
50.0	1060.640	979.738	905.692	975.624	1079.151
50.5	1042.814	962.597	889.923	957.798	1060.640
51.0	1024.988	945.457	874.839	940.658	1042.814
51.5	1007.162	927.631	859.756	923.518	1024.302
52.0	990.022	911.177	844.672	906.377	1006.477
52.5	972.196	894.036	829.589	889.237	988.651
53.0	955.056	877.582	814.506	872.097	970.139
53.5	937.230	860.441	799.422	855.642	952.313
54.0	919.404	844.672	785.024	839.188	934.487
54.5	902.949	828.218	770.626	822.733	916.662

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L50-850-DMA-DIM-UNV_.IES

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55.0	885.809	811.763	756.229	806.278	899.521
55.5	868.669	795.994	742.516	790.509	883.067
56.0	851.529	780.225	728.119	774.740	865.926
56.5	834.388	764.456	713.721	758.285	848.100
57.0	817.934	749.373	700.009	742.516	831.646
57.5	800.793	733.603	685.611	727.433	814.506
58.0	784.339	717.834	671.693	712.350	797.365
58.5	767.884	702.751	657.981	696.580	780.225
59.0	750.744	687.668	644.200	681.634	763.085
59.5	734.289	672.173	630.419	666.139	746.630
60.0	717.834	656.747	616.364	650.645	729.490
60.5	702.065	641.252	602.583	635.355	713.035
61.0	686.982	625.894	589.008	620.135	696.580
61.5	671.007	610.811	575.090	604.846	680.469
62.0	655.787	596.276	561.241	589.968	664.562
62.5	640.429	581.946	547.186	574.953	649.068
63.0	625.071	567.823	532.720	560.487	632.956
63.5	609.508	553.356	518.185	546.569	616.981
64.0	593.876	539.027	504.130	531.965	600.938
64.5	578.518	524.904	490.280	517.773	584.826
65.0	562.886	510.780	476.362	504.061	568.920
65.5	546.706	496.862	462.787	490.280	553.494
66.0	531.211	483.013	449.006	477.116	537.999
66.5	515.442	469.232	435.226	463.816	521.887
67.0	500.702	455.588	421.856	450.583	507.146
67.5	485.892	442.082	408.761	437.831	492.200
68.0	471.152	428.918	396.420	425.079	477.596
68.5	456.342	415.891	384.696	412.121	463.061
69.0	441.945	402.933	373.521	399.574	449.144
69.5	428.164	390.250	362.482	387.233	435.363
70.0	413.972	377.703	351.444	375.166	421.171
70.5	400.191	365.019	340.474	363.168	407.253
71.0	386.410	352.472	329.436	351.444	393.746
71.5	372.698	340.200	318.329	339.583	380.445
72.0	359.123	328.133	307.428	327.859	366.802
72.5	345.822	316.067	296.595	316.341	353.432
73.0	332.521	304.205	285.900	304.891	340.131
73.5	319.495	292.276	275.204	293.304	327.105
74.0	306.605	280.552	264.577	281.717	314.490
74.5	293.784	268.691	253.813	270.199	301.326
75.0	281.169	256.967	243.049	258.818	288.436
75.5	268.485	245.243	232.559	247.437	275.478
76.0	256.007	233.450	221.932	235.919	262.657
76.5	243.803	221.795	211.442	224.263	249.837
77.0	231.462	210.277	200.884	212.539	237.153
77.5	219.190	198.690	190.600	201.364	224.469
78.0	207.054	187.652	180.453	190.463	212.059
78.5	194.988	176.888	170.237	179.561	199.924
79.0	182.989	166.055	160.159	169.140	187.446
79.5	171.266	155.222	150.149	158.650	175.448
80.0	159.679	144.732	140.070	148.160	163.518
80.5	148.298	134.517	130.266	137.808	151.794
81.0	137.328	124.370	120.530	127.592	140.482
81.5	126.907	114.428	111.137	117.582	129.443
82.0	116.554	104.761	101.608	107.778	118.816
82.5	107.024	95.574	92.146	98.317	108.669

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CANDELA TABULATION - (Cont.)

83.0	97.974	87.073	82.548	89.198	99.071
83.5	89.678	79.257	73.292	80.559	89.952
84.0	81.656	72.058	64.585	72.606	81.588
84.5	73.840	65.270	56.631	65.202	73.772
85.0	66.230	58.894	50.050	58.345	66.230
85.5	58.551	52.381	44.702	51.558	58.963
86.0	51.421	46.004	40.177	45.113	51.764
86.5	44.565	39.834	35.995	39.011	45.319
87.0	38.531	33.938	32.018	33.458	39.491
87.5	32.772	28.659	28.041	28.796	34.281
88.0	27.493	24.133	23.859	24.819	29.413
88.5	22.282	19.883	19.060	20.637	24.545
89.0	15.632	14.329	12.684	14.192	18.374
89.5	6.170	6.788	5.965	6.308	8.570
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-L50-850-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-L50-850-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-L50-850-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	964.55	N.A.	18.00
0-30	1892.59	N.A.	35.40
0-40	2865.39	N.A.	53.60
0-60	4492.26	N.A.	84.00
0-80	5279.14	N.A.	98.70
0-90	5349.86	N.A.	100.00
10-90	5084.72	N.A.	95.00
20-40	1900.83	N.A.	35.50
20-50	2796.00	N.A.	52.30
40-70	2137.63	N.A.	40.00
60-80	786.88	N.A.	14.70
70-80	276.13	N.A.	5.20
80-90	70.72	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	5349.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.14
10-20	699.41
20-30	928.04
30-40	972.79
40-50	895.17
50-60	731.71
60-70	510.75
70-80	276.13
80-90	70.72
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-L50-850-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-L50-850-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

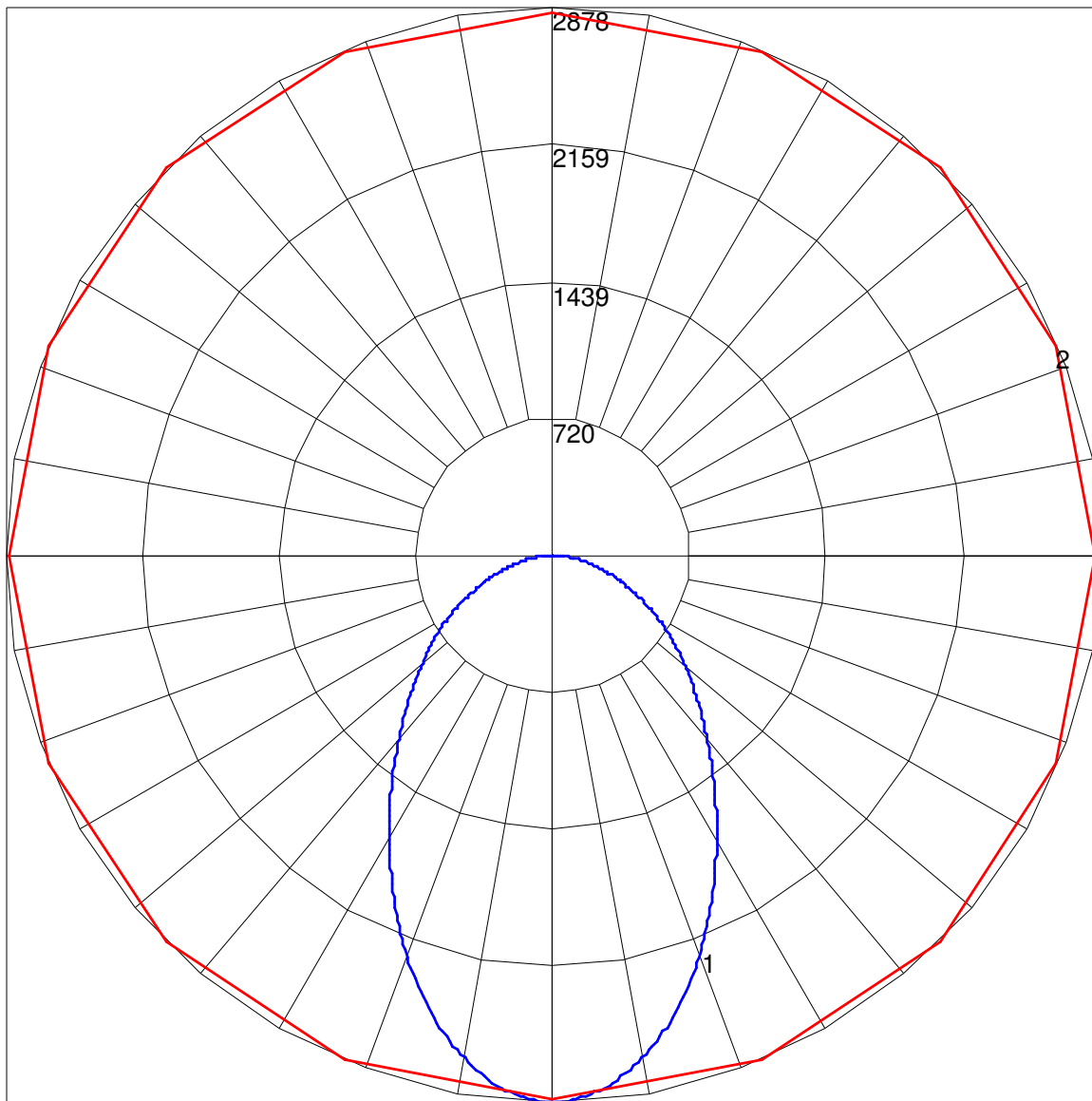
Reflectances

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	16.6	18.1	17.0	18.5	18.8	16.6	18.1	16.9	18.4	18.7
	3H	18.2	19.6	18.6	20.0	20.3	18.2	19.6	18.6	19.9	20.3
	4H	18.8	20.1	19.2	20.5	20.9	18.9	20.2	19.3	20.5	20.9
	6H	19.3	20.5	19.7	20.8	21.2	19.3	20.5	19.7	20.9	21.2
	8H	19.4	20.5	19.8	20.9	21.3	19.4	20.6	19.9	20.9	21.3
	12H	19.4	20.5	19.9	20.9	21.3	19.5	20.6	19.9	21.0	21.4
4H	2H	17.0	18.3	17.4	18.7	19.1	17.0	18.3	17.4	18.7	19.0
	3H	18.9	20.0	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
	4H	19.6	20.6	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	6H	20.1	21.0	20.6	21.4	21.9	20.2	21.0	20.6	21.5	21.9
	8H	20.3	21.1	20.8	21.5	22.0	20.3	21.1	20.8	21.6	22.0
	12H	20.4	21.1	20.9	21.6	22.1	20.4	21.2	20.9	21.6	22.1
8H	4H	19.8	20.6	20.3	21.1	21.5	19.8	20.6	20.3	21.1	21.5
	6H	20.4	21.1	20.9	21.6	22.1	20.5	21.1	21.0	21.6	22.1
	8H	20.6	21.2	21.2	21.7	22.2	20.7	21.3	21.2	21.8	22.3
	12H	20.8	21.3	21.3	21.8	22.4	20.9	21.4	21.4	21.9	22.4
12H	4H	19.8	20.5	20.3	21.0	21.5	19.8	20.6	20.3	21.0	21.5
	6H	20.5	21.1	21.0	21.5	22.1	20.5	21.1	21.0	21.6	22.1
	8H	20.7	21.2	21.2	21.7	22.3	20.8	21.3	21.3	21.8	22.3

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 2878.194 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.)