

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L78-927-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-L78-927-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	6293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	85.6
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	3360	2594	2758
55	2981	2246	2426
65	2575	1927	2086
75	2080	1598	1737
85	1532	1148	1353

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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	3372.429	3372.429	3372.429	3372.429	3372.429
0.5	3333.224	3369.228	3380.430	3378.029	3386.030
1.0	3331.623	3367.628	3378.829	3376.429	3383.630
1.5	3330.023	3365.228	3376.429	3372.429	3380.430
2.0	3326.823	3362.027	3372.429	3367.628	3374.829
2.5	3322.822	3357.227	3366.828	3361.227	3368.428
3.0	3318.822	3352.426	3360.427	3354.026	3361.227
3.5	3312.421	3346.025	3353.226	3345.225	3352.426
4.0	3306.020	3338.824	3344.425	3335.624	3342.025
4.5	3298.819	3330.823	3334.824	3324.423	3330.023
5.0	3290.818	3322.022	3324.423	3312.421	3318.022
5.5	3282.017	3311.621	3312.421	3298.819	3304.420
6.0	3272.416	3300.420	3298.819	3285.218	3288.418
6.5	3261.215	3290.018	3284.417	3269.216	3273.216
7.0	3250.013	3278.017	3270.016	3253.214	3255.614
7.5	3238.812	3264.415	3254.014	3236.411	3237.211
8.0	3226.010	3250.013	3238.012	3218.009	3218.809
8.5	3212.408	3235.611	3219.609	3198.006	3198.807
9.0	3198.807	3220.409	3202.007	3178.004	3178.004
9.5	3185.205	3204.407	3183.605	3158.001	3157.201
10.0	3170.003	3187.605	3163.602	3136.399	3134.798
10.5	3154.801	3170.803	3143.600	3113.996	3110.795
11.0	3138.799	3152.401	3121.997	3090.793	3087.592
11.5	3122.797	3133.998	3100.394	3066.790	3063.589
12.0	3105.995	3114.796	3077.991	3041.987	3038.786
12.5	3088.393	3094.793	3054.788	3016.383	3013.983
13.0	3070.790	3074.791	3031.585	2990.780	2988.380
13.5	3052.388	3053.988	3007.582	2965.177	2963.577
14.0	3033.986	3032.385	2982.779	2937.973	2936.373
14.5	3014.783	3011.583	2957.176	2910.770	2908.370
15.0	2995.581	2989.980	2931.573	2881.966	2881.166
15.5	2976.378	2966.777	2905.169	2853.963	2853.163
16.0	2956.376	2944.374	2878.766	2825.959	2824.359
16.5	2936.373	2921.171	2850.762	2796.355	2795.555
17.0	2916.371	2897.168	2822.759	2767.552	2765.952
17.5	2895.568	2872.365	2794.755	2737.948	2736.348
18.0	2873.965	2847.562	2765.952	2707.544	2705.944
18.5	2851.562	2822.759	2736.348	2677.140	2675.540
19.0	2829.960	2797.956	2707.544	2646.736	2645.136
19.5	2807.557	2772.352	2677.940	2616.333	2615.532
20.0	2785.154	2746.749	2647.537	2584.328	2584.328
20.5	2762.751	2720.346	2617.133	2553.925	2553.925
21.0	2739.548	2693.942	2585.929	2521.921	2523.521
21.5	2715.545	2667.539	2554.725	2490.717	2492.317
22.0	2691.542	2641.136	2523.521	2459.513	2461.913
22.5	2668.339	2614.732	2492.317	2427.509	2430.709
23.0	2645.136	2587.529	2461.113	2396.305	2400.305
23.5	2621.933	2559.525	2429.109	2364.301	2369.901
24.0	2598.730	2533.122	2397.905	2332.296	2339.497
24.5	2574.727	2505.118	2366.701	2301.893	2309.894
25.0	2550.724	2477.915	2335.497	2270.689	2280.290
25.5	2527.521	2450.711	2303.493	2240.285	2250.686
26.0	2503.518	2423.508	2273.089	2209.081	2221.882
26.5	2480.315	2395.504	2241.085	2177.877	2193.079

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27.0	2456.312	2368.301	2209.881	2147.473	2165.075
27.5	2433.109	2341.098	2178.677	2117.869	2136.272
28.0	2409.906	2313.894	2148.273	2088.265	2108.268
28.5	2385.903	2286.691	2117.869	2058.662	2081.865
29.0	2361.900	2259.487	2087.465	2029.858	2053.861
29.5	2338.697	2233.084	2057.862	2001.054	2026.658
30.0	2315.494	2205.880	2027.458	1972.251	2001.054
30.5	2293.091	2178.677	1997.854	1944.247	1974.651
31.0	2270.689	2152.274	1967.450	1916.244	1949.048
31.5	2246.686	2125.870	1938.646	1889.040	1923.444
32.0	2223.483	2098.667	1909.043	1861.837	1897.841
32.5	2200.280	2072.263	1879.439	1834.633	1873.038
33.0	2176.277	2046.660	1850.635	1807.430	1848.235
33.5	2153.874	2020.257	1821.832	1781.026	1824.232
34.0	2129.871	1993.853	1793.028	1755.423	1800.229
34.5	2106.668	1968.250	1765.824	1729.020	1776.226
35.0	2083.465	1941.847	1737.821	1704.217	1753.023
35.5	2061.062	1915.443	1709.817	1678.613	1729.820
36.0	2037.859	1889.840	1681.814	1653.810	1706.617
36.5	2014.656	1864.237	1655.410	1629.007	1684.214
37.0	1991.453	1838.634	1629.007	1604.204	1661.811
37.5	1968.250	1813.831	1602.604	1580.201	1639.408
38.0	1945.847	1789.027	1577.000	1556.998	1617.006
38.5	1922.644	1763.424	1551.397	1533.795	1595.403
39.0	1898.641	1737.821	1525.794	1511.392	1573.800
39.5	1876.238	1713.818	1500.991	1488.189	1552.997
40.0	1853.036	1689.015	1476.988	1466.586	1532.195
40.5	1830.633	1665.012	1452.985	1444.184	1511.392
41.0	1806.630	1640.208	1429.782	1422.581	1490.589
41.5	1784.227	1617.006	1406.579	1401.778	1470.587
42.0	1761.024	1593.002	1383.376	1380.976	1449.784
42.5	1738.621	1569.800	1360.973	1360.173	1429.782
43.0	1715.418	1545.796	1338.570	1338.570	1410.579
43.5	1692.215	1522.594	1316.967	1318.568	1390.577
44.0	1669.012	1499.391	1295.365	1298.565	1371.374
44.5	1646.609	1476.188	1274.562	1278.563	1352.172
45.0	1623.406	1453.785	1252.959	1258.560	1332.169
45.5	1600.203	1430.582	1232.157	1239.358	1312.967
46.0	1577.801	1407.379	1212.154	1219.355	1293.764
46.5	1555.398	1384.976	1192.152	1200.153	1274.562
47.0	1532.995	1362.573	1172.149	1180.950	1254.559
47.5	1509.792	1340.170	1152.146	1162.548	1235.357
48.0	1486.589	1317.767	1132.944	1143.345	1216.155
48.5	1463.386	1295.365	1112.941	1124.143	1196.952
49.0	1441.783	1273.762	1094.539	1104.940	1177.750
49.5	1417.780	1251.359	1075.337	1086.538	1159.347
50.0	1395.377	1229.756	1056.134	1067.336	1140.145
50.5	1372.975	1208.154	1037.732	1048.933	1121.743
51.0	1349.772	1186.551	1019.330	1030.531	1102.540
51.5	1327.369	1164.148	1001.727	1011.329	1082.538
52.0	1303.366	1142.545	983.325	992.926	1064.135
52.5	1280.963	1120.942	965.723	974.524	1044.933
53.0	1258.560	1100.140	948.921	956.922	1025.730
53.5	1236.157	1078.537	931.318	938.519	1006.528
54.0	1212.954	1057.734	913.716	920.117	987.325
54.5	1190.551	1037.732	896.914	902.515	968.123

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55.0	1168.148	1016.929	880.112	884.912	950.521
55.5	1145.746	996.127	863.310	867.310	932.118
56.0	1123.343	976.124	846.508	849.708	912.916
56.5	1101.740	956.122	829.705	832.906	894.514
57.0	1080.137	936.119	813.703	815.304	876.111
57.5	1057.734	916.116	797.621	798.021	857.709
58.0	1036.132	896.914	781.299	781.059	840.107
58.5	1014.529	876.911	765.377	763.857	822.505
59.0	992.926	857.709	749.135	746.975	804.102
59.5	972.124	838.507	733.213	730.333	786.020
60.0	950.521	819.304	717.131	713.691	768.658
60.5	929.718	800.102	701.049	697.209	751.696
61.0	908.916	781.219	685.287	680.567	734.333
61.5	887.313	762.577	668.885	664.244	717.371
62.0	867.310	744.015	653.043	647.922	700.809
62.5	846.508	725.852	636.881	631.840	683.847
63.0	825.705	707.610	620.879	615.998	666.725
63.5	806.503	689.928	604.957	600.316	650.723
64.0	785.700	671.925	588.555	584.634	634.241
64.5	764.897	654.163	572.473	569.192	618.079
65.0	743.535	636.881	556.311	554.230	602.237
65.5	723.212	619.199	540.469	539.509	586.395
66.0	703.049	601.516	524.867	524.627	569.192
66.5	683.447	584.314	509.425	510.385	553.350
67.0	663.844	566.872	494.223	496.303	537.748
67.5	643.842	549.830	479.181	482.141	522.386
68.0	623.039	533.028	464.699	468.220	506.864
68.5	602.717	516.786	450.697	454.298	492.063
69.0	583.434	500.224	436.856	440.456	476.781
69.5	564.632	484.142	423.254	426.854	461.659
70.0	545.589	468.460	409.812	413.493	446.697
70.5	527.187	452.618	396.530	400.371	432.295
71.0	508.305	437.016	383.489	387.249	417.733
71.5	490.302	421.654	370.607	374.288	403.571
72.0	471.980	406.532	357.725	361.406	389.490
72.5	454.138	391.250	344.844	348.684	375.488
73.0	436.295	376.208	332.282	335.883	361.726
73.5	418.933	361.246	319.641	323.241	347.884
74.0	401.811	346.364	307.079	310.519	334.122
74.5	384.609	331.642	294.677	298.038	320.601
75.0	367.727	317.000	282.596	285.556	307.159
75.5	350.845	302.518	270.514	273.395	293.557
76.0	334.282	288.117	258.193	261.073	280.436
76.5	317.960	273.715	246.271	248.912	267.074
77.0	302.038	259.153	234.510	236.830	253.952
77.5	286.116	245.151	222.588	225.149	240.911
78.0	270.354	231.789	210.747	213.387	228.029
78.5	254.752	218.348	199.225	201.866	215.227
79.0	239.630	205.306	187.704	190.424	202.746
79.5	225.149	192.504	176.342	178.983	190.344
80.0	210.747	180.263	164.981	167.541	178.023
80.5	196.665	168.101	153.700	156.260	166.661
81.0	182.903	156.180	142.578	145.538	155.700
81.5	169.542	144.818	131.537	135.537	145.619
82.0	156.740	133.697	120.895	125.936	135.697
82.5	144.498	123.056	110.334	116.975	125.856

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

83.0	132.897	112.654	100.413	108.414	116.255
83.5	121.695	102.733	91.292	99.773	106.974
84.0	111.294	93.292	82.971	91.212	97.852
84.5	100.973	84.091	75.450	82.811	89.051
85.0	91.212	75.290	68.329	74.569	80.570
85.5	81.850	66.889	61.688	66.648	72.329
86.0	72.569	58.727	55.367	59.208	64.968
86.5	63.528	51.126	49.366	52.567	58.327
87.0	54.487	44.326	43.766	46.886	52.167
87.5	45.446	38.165	38.805	42.085	46.806
88.0	36.565	32.324	34.164	37.685	42.005
88.5	28.644	26.723	29.364	33.284	37.365
89.0	21.363	20.643	23.523	26.963	29.844
89.5	13.202	13.122	15.762	20.243	23.523
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-L78-927-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-L78-927-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-L78-927-DMA-DIM-UNV_.IES_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1133.83	N.A.	18.00
0-30	2225.33	N.A.	35.40
0-40	3367.61	N.A.	53.50
0-60	5278.57	N.A.	83.90
0-80	6203.56	N.A.	98.60
0-90	6293.18	N.A.	100.00
10-90	5981.71	N.A.	95.10
20-40	2233.79	N.A.	35.50
20-50	3284.81	N.A.	52.20
40-70	2511.64	N.A.	39.90
60-80	924.99	N.A.	14.70
70-80	324.31	N.A.	5.20
80-90	89.62	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	6293.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	311.48
10-20	822.35
20-30	1091.5
30-40	1142.28
40-50	1051.03
50-60	859.93
60-70	600.68
70-80	324.31
80-90	89.62
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-L78-927-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-L78-927-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

X=2H	Y=2H	15.2	16.8	15.6	17.1	17.4	UGR Viewed Endwise	14.2	15.7	14.5	16.0	16.3
	3H	16.9	18.3	17.3	18.6	19.0		15.8	17.2	16.2	17.5	17.9
	4H	17.5	18.8	17.9	19.2	19.5		16.4	17.7	16.8	18.1	18.4
	6H	17.9	19.1	18.4	19.5	19.9		16.8	18.0	17.3	18.4	18.8
	8H	18.1	19.2	18.5	19.6	20.0		17.0	18.1	17.4	18.5	18.9
	12H	18.2	19.2	18.6	19.6	20.1		17.1	18.2	17.5	18.6	19.0

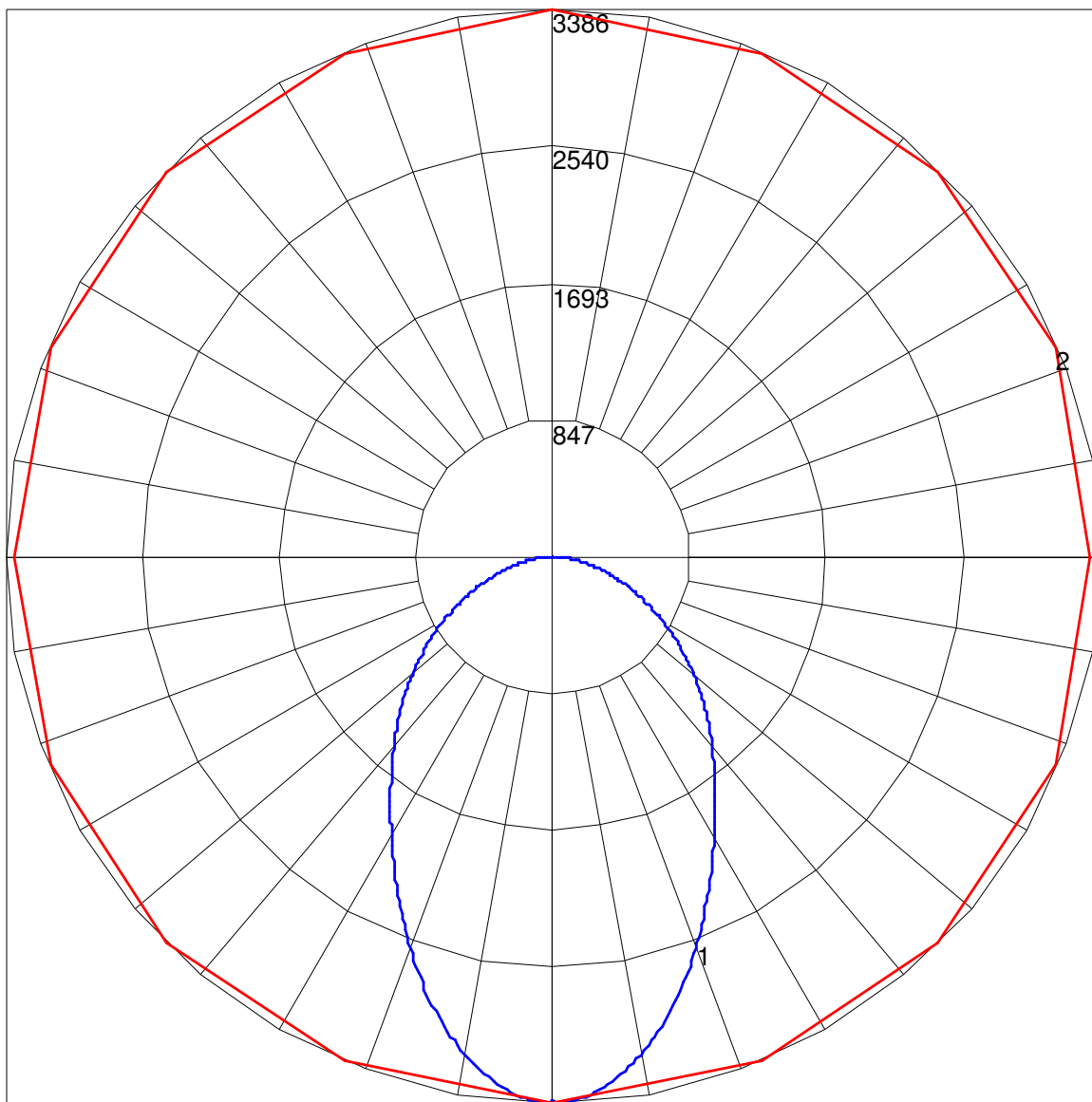
4H	2H	15.6	16.9	16.0	17.2	17.6	14.7	16.0	15.1	16.3	16.7
	3H	17.5	18.5	17.9	18.9	19.3	16.5	17.6	16.9	18.0	18.4
	4H	18.2	19.2	18.6	19.6	20.0	17.2	18.2	17.7	18.6	19.1
	6H	18.7	19.6	19.2	20.0	20.5	17.8	18.6	18.3	19.1	19.6
	8H	18.9	19.7	19.4	20.1	20.6	18.0	18.8	18.4	19.2	19.7
	12H	19.0	19.7	19.5	20.2	20.7	18.1	18.8	18.6	19.3	19.8

8H	4H	18.4	19.1	18.8	19.6	20.1	17.5	18.3	18.0	18.7	19.2
	6H	19.0	19.6	19.5	20.1	20.6	18.2	18.8	18.7	19.3	19.8
	8H	19.2	19.8	19.7	20.3	20.8	18.4	19.0	18.9	19.5	20.0
	12H	19.4	19.9	19.9	20.4	21.0	18.6	19.1	19.1	19.6	20.2

12H	4H	18.4	19.1	18.8	19.5	20.0	17.5	18.2	18.0	18.7	19.2
	6H	19.0	19.6	19.5	20.1	20.6	18.2	18.8	18.7	19.3	19.8
	8H	19.3	19.8	19.8	20.3	20.9	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 3386.03 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.)