

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-835-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-L50-835-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	5022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	2682	2070	2201
55	2379	1792	1936
65	2055	1538	1665
75	1660	1275	1386
85	1222	916	1080

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-835-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	2691.383	2691.383	2691.383	2691.383	2691.383
0.5	2660.096	2688.829	2697.769	2695.853	2702.238
1.0	2658.819	2687.552	2696.492	2694.576	2700.323
1.5	2657.542	2685.637	2694.576	2691.383	2697.769
2.0	2654.987	2683.083	2691.383	2687.552	2693.299
2.5	2651.795	2679.251	2686.914	2682.444	2688.191
3.0	2648.602	2675.420	2681.806	2676.697	2682.444
3.5	2643.494	2670.312	2676.059	2669.674	2675.420
4.0	2638.386	2664.565	2669.035	2662.011	2667.119
4.5	2632.639	2658.180	2661.373	2653.072	2657.542
5.0	2626.254	2651.156	2653.072	2643.494	2647.964
5.5	2619.230	2642.856	2643.494	2632.639	2637.109
6.0	2611.568	2633.916	2632.639	2621.784	2624.338
6.5	2602.628	2625.615	2621.146	2609.014	2612.206
7.0	2593.689	2616.037	2609.652	2596.243	2598.159
7.5	2584.750	2605.183	2596.882	2582.834	2583.473
8.0	2574.533	2593.689	2584.111	2568.148	2568.787
8.5	2563.678	2582.196	2569.425	2552.185	2552.823
9.0	2552.823	2570.064	2555.378	2536.222	2536.222
9.5	2541.969	2557.293	2540.691	2520.259	2519.620
10.0	2529.837	2543.884	2524.728	2503.019	2501.741
10.5	2517.705	2530.475	2508.765	2485.140	2482.586
11.0	2504.934	2515.789	2491.525	2466.623	2464.068
11.5	2492.164	2501.103	2474.285	2447.467	2444.913
12.0	2478.755	2485.778	2456.406	2427.673	2425.118
12.5	2464.707	2469.815	2437.889	2407.240	2405.324
13.0	2450.659	2453.852	2419.372	2386.807	2384.891
13.5	2435.973	2437.250	2400.216	2366.374	2365.097
14.0	2421.287	2420.010	2380.422	2344.664	2343.387
14.5	2405.963	2403.409	2359.989	2322.954	2321.039
15.0	2390.638	2386.168	2339.556	2299.968	2299.329
15.5	2375.313	2367.651	2318.485	2277.619	2276.981
16.0	2359.350	2349.772	2297.413	2255.271	2253.994
16.5	2343.387	2331.255	2275.065	2231.645	2231.007
17.0	2327.424	2312.099	2252.717	2208.658	2207.381
17.5	2310.822	2292.305	2230.368	2185.033	2183.756
18.0	2293.582	2272.511	2207.381	2160.769	2159.492
18.5	2275.704	2252.717	2183.756	2136.505	2135.228
19.0	2258.463	2232.922	2160.769	2112.241	2110.964
19.5	2240.585	2212.490	2137.144	2087.977	2087.339
20.0	2222.706	2192.057	2112.880	2062.436	2062.436
20.5	2204.827	2170.985	2088.616	2038.172	2038.172
21.0	2186.310	2149.914	2063.713	2012.631	2013.908
21.5	2167.154	2128.843	2038.811	1987.729	1989.006
22.0	2147.999	2107.771	2013.908	1962.826	1964.742
22.5	2129.481	2086.700	1989.006	1937.285	1939.839
23.0	2110.964	2064.990	1964.103	1912.383	1915.575
23.5	2092.447	2042.642	1938.562	1886.842	1891.311
24.0	2073.930	2021.571	1913.660	1861.301	1867.047
24.5	2054.774	1999.222	1888.757	1837.037	1843.422
25.0	2035.618	1977.512	1863.855	1812.134	1819.797
25.5	2017.101	1955.802	1838.314	1787.870	1796.171
26.0	1997.945	1934.093	1814.050	1762.968	1773.184
26.5	1979.428	1911.744	1788.509	1738.065	1750.197

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27.0	1960.272	1890.034	1763.606	1713.801	1727.849
27.5	1941.755	1868.325	1738.704	1690.176	1704.862
28.0	1923.238	1846.615	1714.440	1666.551	1682.514
28.5	1904.082	1824.905	1690.176	1642.925	1661.442
29.0	1884.926	1803.195	1665.912	1619.938	1639.094
29.5	1866.409	1782.124	1642.287	1596.951	1617.384
30.0	1847.892	1760.414	1618.023	1573.964	1596.951
30.5	1830.013	1738.704	1594.397	1551.616	1575.880
31.0	1812.134	1717.633	1570.133	1529.268	1555.447
31.5	1792.979	1696.561	1547.146	1507.558	1535.014
32.0	1774.461	1674.851	1523.521	1485.848	1514.582
32.5	1755.944	1653.780	1499.896	1464.138	1494.787
33.0	1736.788	1633.347	1476.909	1442.428	1474.993
33.5	1718.910	1612.276	1453.922	1421.357	1455.837
34.0	1699.754	1591.205	1430.935	1400.924	1436.682
34.5	1681.237	1570.772	1409.225	1379.853	1417.526
35.0	1662.719	1549.700	1386.877	1360.059	1399.009
35.5	1644.841	1528.629	1364.528	1339.626	1380.491
36.0	1626.324	1508.196	1342.180	1319.831	1361.974
36.5	1607.806	1487.764	1321.108	1300.037	1344.095
37.0	1589.289	1467.331	1300.037	1280.243	1326.217
37.5	1570.772	1447.536	1278.966	1261.087	1308.338
38.0	1552.893	1427.742	1258.533	1242.570	1290.459
38.5	1534.376	1407.309	1238.100	1224.053	1273.219
39.0	1515.220	1386.877	1217.667	1206.174	1255.979
39.5	1497.341	1367.721	1197.873	1187.657	1239.377
40.0	1478.824	1347.927	1178.717	1170.417	1222.776
40.5	1460.945	1328.771	1159.562	1152.538	1206.174
41.0	1441.790	1308.977	1141.044	1135.298	1189.572
41.5	1423.911	1290.459	1122.527	1118.696	1173.609
42.0	1405.394	1271.304	1104.010	1102.094	1157.008
42.5	1387.515	1252.786	1086.131	1085.493	1141.044
43.0	1368.998	1233.631	1068.253	1068.253	1125.720
43.5	1350.481	1215.113	1051.012	1052.289	1109.757
44.0	1331.963	1196.596	1033.772	1036.326	1094.432
44.5	1314.085	1178.079	1017.171	1020.363	1079.107
45.0	1295.567	1160.200	999.930	1004.400	1063.144
45.5	1277.050	1141.683	983.329	989.075	1047.820
46.0	1259.172	1123.166	967.366	973.112	1032.495
46.5	1241.293	1105.287	951.402	957.788	1017.171
47.0	1223.414	1087.408	935.439	942.463	1001.207
47.5	1204.897	1069.530	919.476	927.777	985.883
48.0	1186.380	1051.651	904.152	912.452	970.558
48.5	1167.862	1033.772	888.188	897.128	955.234
49.0	1150.622	1016.532	873.502	881.803	939.909
49.5	1131.467	998.653	858.178	867.117	925.223
50.0	1113.588	981.413	842.853	851.793	909.898
50.5	1095.709	964.173	828.167	837.106	895.212
51.0	1077.192	946.933	813.481	822.420	879.888
51.5	1059.313	929.054	799.433	807.096	863.924
52.0	1040.157	911.814	784.747	792.410	849.238
52.5	1022.279	894.574	770.700	777.724	833.914
53.0	1004.400	877.972	757.291	763.676	818.589
53.5	986.521	860.732	743.243	748.990	803.265
54.0	968.004	844.130	729.196	734.304	787.940
54.5	950.125	828.167	715.787	720.256	772.615

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55.0	932.247	811.565	702.378	706.209	758.568
55.5	914.368	794.964	688.969	692.161	743.882
56.0	896.489	779.001	675.560	678.114	728.557
56.5	879.249	763.038	662.151	664.705	713.871
57.0	862.009	747.074	649.380	650.657	699.185
57.5	844.130	731.111	636.546	636.865	684.499
58.0	826.890	715.787	623.520	623.328	670.451
58.5	809.650	699.824	610.813	609.600	656.404
59.0	792.410	684.499	597.851	596.127	641.718
59.5	775.808	669.174	585.144	582.846	627.287
60.0	758.568	653.850	572.310	569.564	613.431
60.5	741.966	638.525	559.476	556.411	599.894
61.0	725.365	623.456	546.897	543.129	586.038
61.5	708.124	608.578	533.807	530.104	572.502
62.0	692.161	593.765	521.164	517.078	559.284
62.5	675.560	579.270	508.266	504.243	545.747
63.0	658.958	564.712	495.495	491.600	532.083
63.5	643.633	550.600	482.789	479.085	519.312
64.0	627.032	536.233	469.699	466.570	506.159
64.5	610.430	522.058	456.865	454.247	493.261
65.0	593.381	508.266	443.967	442.306	480.618
65.5	577.163	494.155	431.324	430.557	467.975
66.0	561.072	480.043	418.872	418.681	454.247
66.5	545.428	466.315	406.549	407.315	441.604
67.0	529.784	452.395	394.417	396.077	429.153
67.5	513.821	438.794	382.413	384.775	416.893
68.0	497.220	425.385	370.855	373.665	404.506
68.5	481.001	412.423	359.681	362.555	392.693
69.0	465.613	399.206	348.635	351.508	380.497
69.5	450.607	386.372	337.780	340.653	368.429
70.0	435.410	373.856	327.053	329.990	356.489
70.5	420.724	361.214	316.453	319.518	344.995
71.0	405.655	348.762	306.045	309.046	333.374
71.5	391.288	336.503	295.765	298.702	322.072
72.0	376.666	324.435	285.485	288.422	310.834
72.5	362.427	312.239	275.204	278.269	299.660
73.0	348.188	300.235	265.179	268.053	288.677
73.5	334.332	288.294	255.091	257.964	277.631
74.0	320.667	276.418	245.066	247.812	266.648
74.5	306.939	264.669	235.169	237.851	255.857
75.0	293.466	252.984	225.527	227.890	245.130
75.5	279.993	241.426	215.885	218.184	234.275
76.0	266.776	229.933	206.052	208.351	223.803
76.5	253.750	218.439	196.538	198.645	213.140
77.0	241.043	206.818	187.152	189.003	202.668
77.5	228.337	195.644	177.638	179.681	192.260
78.0	215.758	184.981	168.188	170.295	181.980
78.5	203.306	174.254	158.993	161.100	171.763
79.0	191.238	163.846	149.798	151.969	161.802
79.5	179.681	153.629	140.731	142.838	151.905
80.0	168.188	143.860	131.664	133.707	142.072
80.5	156.949	134.154	122.661	124.704	133.005
81.0	145.967	124.640	113.785	116.148	124.257
81.5	135.303	115.573	104.974	108.166	116.212
82.0	125.087	106.698	96.481	100.504	108.294
82.5	115.318	98.205	88.053	93.352	100.440

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CANDELA TABULATION - (Cont.)

83.0	106.059	89.904	80.135	86.520	92.778
83.5	97.120	81.987	72.856	79.624	85.371
84.0	88.819	74.452	66.215	72.792	78.092
84.5	80.582	67.109	60.213	66.087	71.068
85.0	72.792	60.085	54.530	59.511	64.299
85.5	65.321	53.381	49.230	53.189	57.723
86.0	57.914	46.868	44.186	47.251	51.848
86.5	50.699	40.802	39.397	41.951	46.548
87.0	43.484	35.374	34.927	37.418	41.632
87.5	36.268	30.458	30.968	33.586	37.354
88.0	29.181	25.796	27.265	30.075	33.523
88.5	22.859	21.327	23.434	26.563	29.819
89.0	17.049	16.474	18.773	21.518	23.817
89.5	10.536	10.472	12.579	16.155	18.773
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-L50-835-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-L50-835-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-L50-835-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	904.86	N.A.	18.00
0-30	1775.93	N.A.	35.40
0-40	2687.54	N.A.	53.50
0-60	4212.59	N.A.	83.90
0-80	4950.78	N.A.	98.60
0-90	5022.3	N.A.	100.00
10-90	4773.73	N.A.	95.10
20-40	1782.68	N.A.	35.50
20-50	2621.46	N.A.	52.20
40-70	2004.43	N.A.	39.90
60-80	738.19	N.A.	14.70
70-80	258.82	N.A.	5.20
80-90	71.52	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	5022.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	248.57
10-20	656.28
20-30	871.08
30-40	911.61
40-50	838.78
50-60	686.27
60-70	479.38
70-80	258.82
80-90	71.52
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-L50-835-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-L50-835-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	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

UGR Viewed Endwise

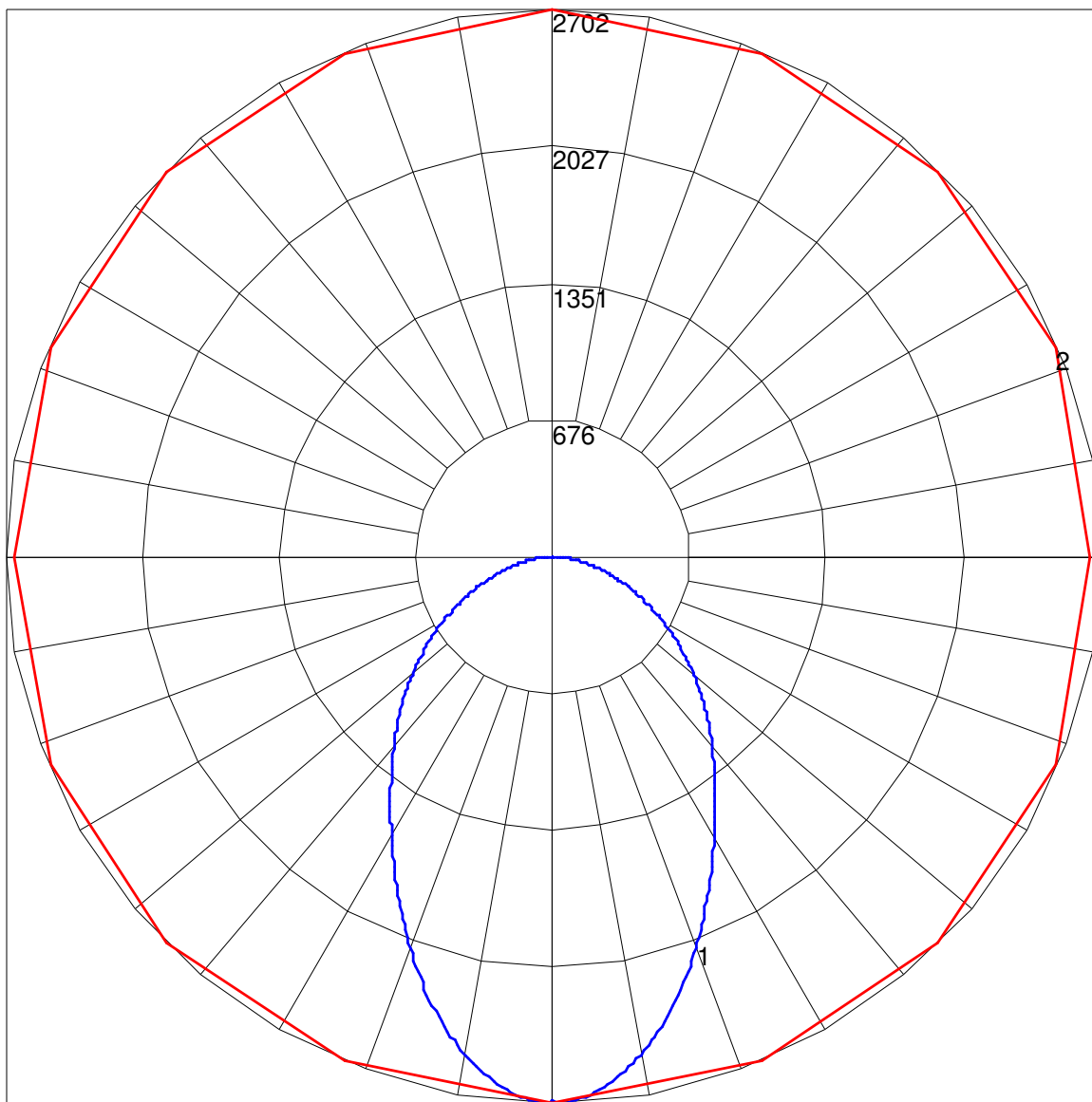
4H	2H	14.8	16.1	15.2	16.4	16.8	13.9	15.2	14.3	15.5	15.9
	3H	16.7	17.7	17.1	18.1	18.5	15.7	16.8	16.1	17.2	17.6
	4H	17.4	18.4	17.8	18.8	19.2	16.4	17.4	16.9	17.8	18.3
	6H	17.9	18.8	18.4	19.2	19.7	17.0	17.9	17.5	18.3	18.8
	8H	18.1	18.9	18.6	19.3	19.8	17.2	18.0	17.6	18.4	18.9
	12H	18.2	18.9	18.7	19.4	19.9	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 = 2702.238 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.)