

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-950-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-L50-950-DMA-DIM-UNV_
[LUMINAIRE] Recessed 2 x 4 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED
[FILE GEN INFO] 1.10000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	2387	1842	1959
55	2117	1595	1723
65	1829	1369	1481
75	1477	1135	1234
85	1088	815	961

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-950-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	2395.331	2395.331	2395.331	2395.331	2395.331
0.5	2367.485	2393.058	2401.014	2399.309	2404.992
1.0	2366.349	2391.922	2399.878	2398.173	2403.287
1.5	2365.212	2390.217	2398.173	2395.331	2401.014
2.0	2362.939	2387.944	2395.331	2391.922	2397.036
2.5	2360.097	2384.534	2391.353	2387.375	2392.490
3.0	2357.256	2381.124	2386.807	2382.261	2387.375
3.5	2352.710	2376.578	2381.692	2376.010	2381.124
4.0	2348.163	2371.463	2375.441	2369.190	2373.736
4.5	2343.049	2365.780	2368.622	2361.234	2365.212
5.0	2337.366	2359.529	2361.234	2352.710	2356.688
5.5	2331.115	2352.141	2352.710	2343.049	2347.027
6.0	2324.295	2344.185	2343.049	2333.388	2335.661
6.5	2316.339	2336.798	2332.820	2322.022	2324.864
7.0	2308.383	2328.273	2322.590	2310.656	2312.361
7.5	2300.427	2318.612	2311.225	2298.722	2299.291
8.0	2291.335	2308.383	2299.859	2285.652	2286.220
8.5	2281.674	2298.154	2286.788	2271.445	2272.013
9.0	2272.013	2287.357	2274.286	2257.237	2257.237
9.5	2262.352	2275.991	2261.215	2243.030	2242.462
10.0	2251.555	2264.057	2247.008	2227.687	2226.550
10.5	2240.757	2252.123	2232.801	2211.774	2209.501
11.0	2229.391	2239.052	2217.457	2195.294	2193.021
11.5	2218.026	2225.982	2202.114	2178.245	2175.972
12.0	2206.092	2212.343	2186.202	2160.629	2158.355
12.5	2193.589	2198.136	2169.721	2142.443	2140.739
13.0	2181.087	2183.928	2153.241	2124.258	2122.553
13.5	2168.016	2169.153	2136.192	2106.073	2104.936
14.0	2154.946	2153.809	2118.575	2086.751	2085.615
14.5	2141.307	2139.034	2100.390	2067.429	2065.725
15.0	2127.668	2123.690	2082.205	2046.971	2046.403
15.5	2114.029	2107.210	2063.451	2027.081	2026.513
16.0	2099.822	2091.298	2044.698	2007.191	2006.054
16.5	2085.615	2074.817	2024.808	1986.164	1985.596
17.0	2071.407	2057.769	2004.918	1965.706	1964.569
17.5	2056.632	2040.152	1985.028	1944.679	1943.543
18.0	2041.288	2022.535	1964.569	1923.084	1921.948
18.5	2025.376	2004.918	1943.543	1901.490	1900.353
19.0	2010.032	1987.301	1923.084	1879.895	1878.758
19.5	1994.120	1969.116	1902.058	1858.300	1857.731
20.0	1978.208	1950.931	1880.463	1835.568	1835.568
20.5	1962.296	1932.177	1858.868	1813.973	1813.973
21.0	1945.816	1913.424	1836.705	1791.242	1792.378
21.5	1928.767	1894.670	1814.542	1769.079	1770.215
22.0	1911.719	1875.917	1792.378	1746.915	1748.620
22.5	1895.238	1857.163	1770.215	1724.184	1726.457
23.0	1878.758	1837.841	1748.052	1702.021	1704.862
23.5	1862.278	1817.951	1725.320	1679.289	1683.267
24.0	1845.797	1799.198	1703.157	1656.558	1661.672
24.5	1828.749	1779.308	1680.994	1634.963	1640.646
25.0	1811.700	1759.986	1658.831	1612.800	1619.619
25.5	1795.220	1740.664	1636.099	1591.205	1598.592
26.0	1778.171	1721.342	1614.504	1569.041	1578.134
26.5	1761.691	1701.452	1591.773	1546.878	1557.676

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27.0	1744.642	1682.131	1569.610	1525.283	1537.786
27.5	1728.162	1662.809	1547.447	1504.257	1517.327
28.0	1711.682	1643.487	1525.852	1483.230	1497.437
28.5	1694.633	1624.165	1504.257	1462.203	1478.684
29.0	1677.584	1604.844	1482.662	1441.745	1458.794
29.5	1661.104	1586.090	1461.635	1421.287	1439.472
30.0	1644.624	1566.768	1440.040	1400.828	1421.287
30.5	1628.712	1547.447	1419.014	1380.938	1402.533
31.0	1612.800	1528.693	1397.419	1361.048	1384.348
31.5	1595.751	1509.940	1376.960	1341.726	1366.163
32.0	1579.271	1490.618	1355.934	1322.405	1347.978
32.5	1562.790	1471.864	1334.907	1303.083	1330.361
33.0	1545.742	1453.679	1314.449	1283.761	1312.744
33.5	1529.830	1434.926	1293.990	1265.008	1295.695
34.0	1512.781	1416.172	1273.532	1246.822	1278.647
34.5	1496.301	1397.987	1254.210	1228.069	1261.598
35.0	1479.820	1379.233	1234.320	1210.452	1245.118
35.5	1463.908	1360.480	1214.430	1192.267	1228.637
36.0	1447.428	1342.295	1194.540	1174.650	1212.157
36.5	1430.948	1324.110	1175.787	1157.033	1196.245
37.0	1414.467	1305.924	1157.033	1139.416	1180.333
37.5	1397.987	1288.307	1138.280	1122.368	1164.421
38.0	1382.075	1270.691	1120.094	1105.887	1148.509
38.5	1365.595	1252.505	1101.909	1089.407	1133.165
39.0	1348.546	1234.320	1083.724	1073.495	1117.821
39.5	1332.634	1217.272	1066.107	1057.015	1103.046
40.0	1316.154	1199.655	1049.058	1041.671	1088.270
40.5	1300.242	1182.606	1032.010	1025.759	1073.495
41.0	1283.193	1164.989	1015.530	1010.415	1058.719
41.5	1267.281	1148.509	999.049	995.639	1044.512
42.0	1250.801	1131.460	982.569	980.864	1029.737
42.5	1234.888	1114.980	966.657	966.089	1015.530
43.0	1218.408	1097.931	950.745	950.745	1001.891
43.5	1201.928	1081.451	935.401	936.538	987.683
44.0	1185.447	1064.971	920.057	922.330	974.045
44.5	1169.535	1048.490	905.282	908.123	960.406
45.0	1153.055	1032.578	889.938	893.916	946.198
45.5	1136.575	1016.098	875.163	880.277	932.560
46.0	1120.663	999.617	860.955	866.070	918.921
46.5	1104.751	983.705	846.748	852.431	905.282
47.0	1088.839	967.793	832.541	838.792	891.075
47.5	1072.358	951.881	818.334	825.722	877.436
48.0	1055.878	935.969	804.695	812.083	863.797
48.5	1039.398	920.057	790.488	798.444	850.158
49.0	1024.054	904.713	777.417	784.805	836.519
49.5	1007.005	888.801	763.778	771.734	823.448
50.0	991.093	873.458	750.139	758.095	809.810
50.5	975.181	858.114	737.069	745.025	796.739
51.0	958.701	842.770	723.998	731.954	783.100
51.5	942.789	826.858	711.496	718.315	768.893
52.0	925.740	811.514	698.425	705.245	755.822
52.5	909.828	796.171	685.923	692.174	742.183
53.0	893.916	781.395	673.989	679.672	728.544
53.5	878.004	766.051	661.487	666.601	714.906
54.0	861.524	751.276	648.984	653.530	701.267
54.5	845.612	737.069	637.050	641.028	687.628

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55.0	829.700	722.293	625.116	628.526	675.125
55.5	813.788	707.518	613.182	616.024	662.055
56.0	797.875	693.311	601.248	603.521	648.416
56.5	782.532	679.103	589.314	591.587	635.345
57.0	767.188	664.896	577.948	579.085	622.275
57.5	751.276	650.689	566.526	566.810	609.204
58.0	735.932	637.050	554.933	554.762	596.702
58.5	720.588	622.843	543.624	542.544	584.199
59.0	705.245	609.204	532.087	530.553	571.129
59.5	690.469	595.565	520.779	518.733	558.286
60.0	675.125	581.926	509.356	506.912	545.954
60.5	660.350	568.287	497.933	495.206	533.906
61.0	645.574	554.876	486.738	483.385	521.574
61.5	630.231	541.635	475.088	471.792	509.526
62.0	616.024	528.450	463.836	460.199	497.763
62.5	601.248	515.550	452.357	448.777	485.715
63.0	586.473	502.593	440.991	437.524	473.554
63.5	572.834	490.034	429.682	426.386	462.188
64.0	558.058	477.248	418.032	415.248	450.481
64.5	543.283	464.632	406.610	404.280	439.002
65.0	528.109	452.357	395.130	393.653	427.750
65.5	513.675	439.798	383.878	383.196	416.498
66.0	499.354	427.238	372.797	372.626	404.280
66.5	485.431	415.020	361.829	362.511	393.028
67.0	471.508	402.632	351.031	352.509	381.946
67.5	457.301	390.527	340.347	342.450	371.035
68.0	442.525	378.593	330.061	332.562	360.010
68.5	428.091	367.057	320.116	322.674	349.497
69.0	414.395	355.293	310.285	312.842	338.642
69.5	401.040	343.871	300.624	303.181	327.902
70.0	387.515	332.732	291.077	293.691	317.275
70.5	374.445	321.480	281.643	284.371	307.046
71.0	361.033	310.399	272.380	275.051	296.703
71.5	348.247	299.487	263.231	265.845	286.644
72.0	335.233	288.747	254.081	256.695	276.642
72.5	322.560	277.893	244.932	247.660	266.697
73.0	309.887	267.209	236.010	238.567	256.923
73.5	297.555	256.582	227.031	229.588	247.091
74.0	285.394	246.012	218.109	220.552	237.317
74.5	273.176	235.555	209.300	211.687	227.713
75.0	261.185	225.155	200.719	202.822	218.166
75.5	249.194	214.869	192.138	194.184	208.505
76.0	237.430	204.640	183.386	185.432	199.185
76.5	225.837	194.411	174.919	176.794	189.694
77.0	214.528	184.068	166.565	168.213	180.374
77.5	203.220	174.123	158.098	159.916	171.111
78.0	192.024	164.633	149.687	151.562	161.962
78.5	180.943	155.086	141.504	143.379	152.869
79.0	170.202	145.823	133.320	135.252	144.004
79.5	159.916	136.730	125.251	127.126	135.196
80.0	149.687	128.035	117.181	118.999	126.444
80.5	139.685	119.397	109.168	110.987	118.374
81.0	129.910	110.930	101.269	103.371	110.589
81.5	120.420	102.860	93.426	96.268	103.428
82.0	111.327	94.961	85.868	89.448	96.382
82.5	102.633	87.403	78.367	83.084	89.392

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CANDELA TABULATION - (Cont.)

83.0	94.393	80.015	71.320	77.003	82.572
83.5	86.437	72.968	64.842	70.865	75.980
84.0	79.049	66.262	58.931	64.785	69.502
84.5	71.718	59.727	53.589	58.818	63.250
85.0	64.785	53.476	48.532	52.964	57.227
85.5	58.136	47.509	43.815	47.338	51.373
86.0	51.544	41.712	39.325	42.053	46.145
86.5	45.122	36.314	35.063	37.336	41.428
87.0	38.700	31.483	31.085	33.302	37.052
87.5	32.279	27.107	27.562	29.892	33.245
88.0	25.971	22.959	24.266	26.766	29.835
88.5	20.345	18.981	20.856	23.641	26.539
89.0	15.173	14.662	16.708	19.151	21.197
89.5	9.377	9.320	11.195	14.378	16.708
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-L50-950-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-L50-950-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-L50-950-DMA-DIM-UNV_.IES_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	805.32	N.A.	18.00
0-30	1580.58	N.A.	35.40
0-40	2391.91	N.A.	53.50
0-60	3749.2	N.A.	83.90
0-80	4406.2	N.A.	98.60
0-90	4469.85	N.A.	100.00
10-90	4248.62	N.A.	95.10
20-40	1586.59	N.A.	35.50
20-50	2333.1	N.A.	52.20
40-70	1783.94	N.A.	39.90
60-80	656.99	N.A.	14.70
70-80	230.35	N.A.	5.20
80-90	63.65	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	4469.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.23
10-20	584.09
20-30	775.26
30-40	811.33
40-50	746.51
50-60	610.78
60-70	426.65
70-80	230.35
80-90	63.65
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-L50-950-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-L50-950-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	14.0	15.6	14.4	15.9	16.2	UGR Viewed Endwise	13.0	14.5	13.3	14.8	15.1
	3H	15.7	17.1	16.1	17.4	17.8		14.6	16.0	15.0	16.3	16.7
	4H	16.3	17.6	16.7	18.0	18.3		15.2	16.5	15.6	16.9	17.2
	6H	16.7	17.9	17.1	18.3	18.7		15.6	16.8	16.1	17.2	17.6
	8H	16.9	18.0	17.3	18.4	18.8		15.8	16.9	16.2	17.3	17.7
	12H	17.0	18.0	17.4	18.4	18.9		15.9	17.0	16.3	17.4	17.8

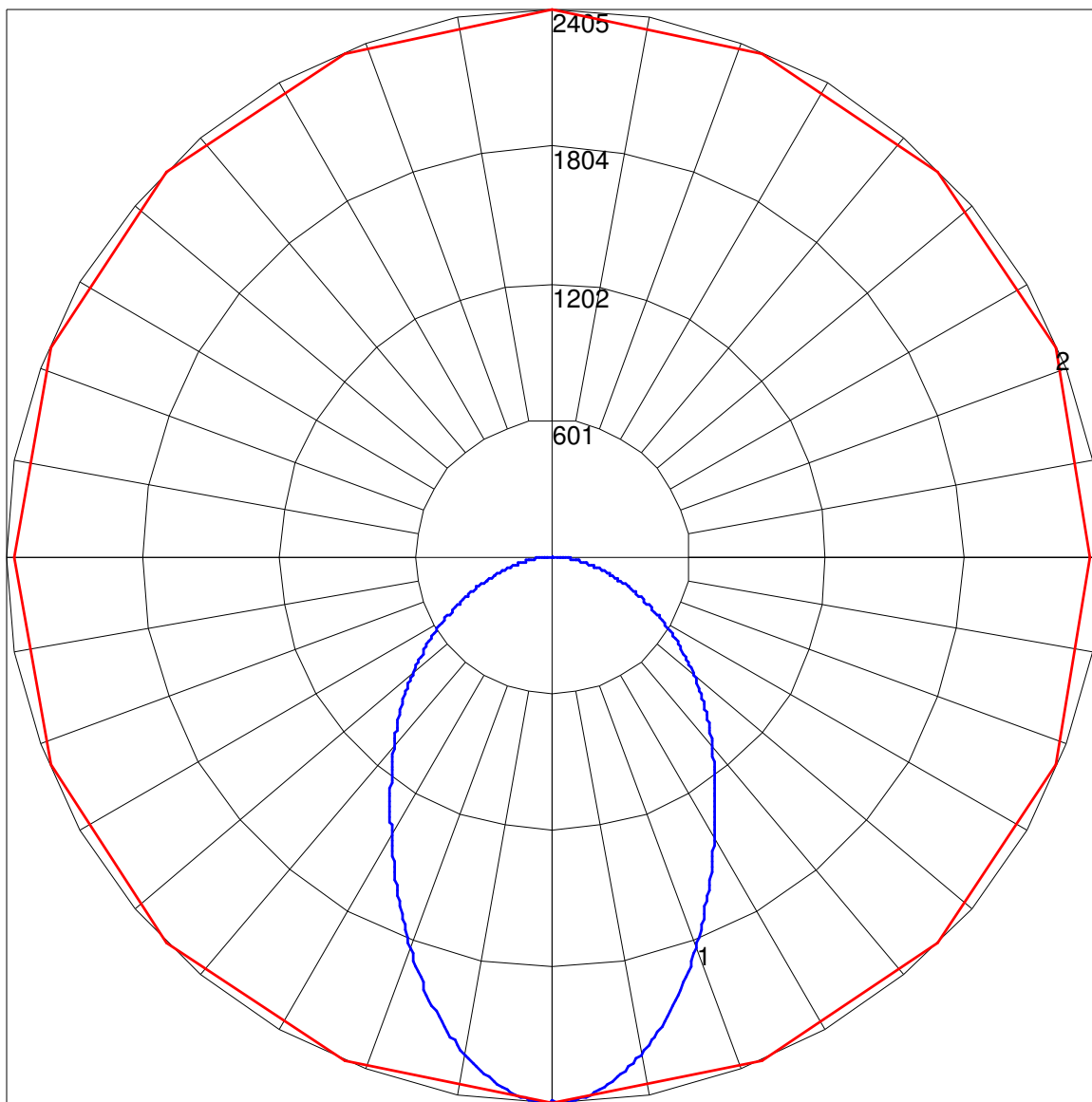
4H	2H	14.4	15.7	14.8	16.0	16.4	13.5	14.8	13.9	15.1	15.5
	3H	16.3	17.3	16.7	17.7	18.1	15.3	16.4	15.7	16.8	17.2
	4H	17.0	18.0	17.4	18.4	18.8	16.0	17.0	16.5	17.4	17.9
	6H	17.5	18.4	18.0	18.8	19.3	16.6	17.4	17.1	17.9	18.4
	8H	17.7	18.5	18.2	18.9	19.4	16.8	17.6	17.2	18.0	18.5
	12H	17.8	18.5	18.3	19.0	19.5	16.9	17.6	17.4	18.1	18.6

8H	4H	17.2	17.9	17.6	18.4	18.9	16.3	17.1	16.8	17.5	18.0
	6H	17.8	18.4	18.3	18.9	19.4	17.0	17.6	17.5	18.1	18.6
	8H	18.0	18.6	18.5	19.1	19.6	17.2	17.8	17.7	18.3	18.8
	12H	18.2	18.7	18.7	19.2	19.8	17.4	17.9	17.9	18.4	19.0

12H	4H	17.2	17.9	17.6	18.3	18.8	16.3	17.0	16.8	17.5	18.0
	6H	17.8	18.4	18.3	18.9	19.4	17.0	17.6	17.5	18.1	18.6
	8H	18.1	18.6	18.6	19.1	19.7	17.3	17.8	17.8	18.3	18.9

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 2404.992 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.)