

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-940-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-L50-940-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	4319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
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	2306	1780	1893
55	2046	1541	1665
65	1767	1322	1432
75	1427	1097	1192
85	1051	788	929

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-940-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	2314.590	2314.590	2314.590	2314.590	2314.590
0.5	2287.682	2312.393	2320.081	2318.433	2323.925
1.0	2286.584	2311.295	2318.983	2317.335	2322.277
1.5	2285.486	2309.647	2317.335	2314.590	2320.081
2.0	2283.289	2307.451	2314.590	2311.295	2316.237
2.5	2280.543	2304.156	2310.746	2306.902	2311.844
3.0	2277.798	2300.861	2306.353	2301.960	2306.902
3.5	2273.405	2296.468	2301.410	2295.919	2300.861
4.0	2269.012	2291.526	2295.370	2289.330	2293.723
4.5	2264.069	2286.035	2288.780	2281.642	2285.486
5.0	2258.578	2279.994	2281.642	2273.405	2277.249
5.5	2252.538	2272.856	2273.405	2264.069	2267.913
6.0	2245.948	2265.168	2264.069	2254.734	2256.931
6.5	2238.260	2258.029	2254.185	2243.752	2246.497
7.0	2230.572	2249.792	2244.301	2232.769	2234.416
7.5	2222.885	2240.457	2233.318	2221.237	2221.786
8.0	2214.098	2230.572	2222.335	2208.607	2209.156
8.5	2204.763	2220.688	2209.705	2194.879	2195.428
9.0	2195.428	2210.255	2197.625	2181.151	2181.151
9.5	2186.093	2199.272	2184.995	2167.422	2166.873
10.0	2175.659	2187.740	2171.266	2152.596	2151.498
10.5	2165.226	2176.208	2157.538	2137.220	2135.024
11.0	2154.243	2163.578	2142.711	2121.295	2119.099
11.5	2143.261	2150.948	2127.885	2104.821	2102.625
12.0	2131.729	2137.769	2112.509	2087.798	2085.602
12.5	2119.648	2124.041	2096.584	2070.226	2068.579
13.0	2107.567	2110.313	2080.660	2052.654	2051.006
13.5	2094.937	2096.035	2064.186	2035.082	2033.983
14.0	2082.307	2081.209	2047.163	2016.411	2015.313
14.5	2069.128	2066.931	2029.590	1997.741	1996.093
15.0	2055.949	2052.105	2012.018	1977.972	1977.423
15.5	2042.769	2036.180	1993.897	1958.752	1958.203
16.0	2029.041	2020.804	1975.775	1939.533	1938.434
16.5	2015.313	2004.879	1956.556	1919.215	1918.666
17.0	2001.585	1988.405	1937.336	1899.446	1898.348
17.5	1987.307	1971.382	1918.117	1879.128	1878.030
18.0	1972.481	1954.359	1898.348	1858.261	1857.163
18.5	1957.105	1937.336	1878.030	1837.394	1836.296
19.0	1942.278	1920.313	1858.261	1816.527	1815.429
19.5	1926.903	1902.741	1837.943	1795.660	1795.111
20.0	1911.527	1885.169	1817.076	1773.695	1773.695
20.5	1896.151	1867.047	1796.209	1752.828	1752.828
21.0	1880.227	1848.926	1774.793	1730.863	1731.961
21.5	1863.753	1830.805	1753.377	1709.447	1710.545
22.0	1847.279	1812.683	1731.961	1688.030	1689.678
22.5	1831.354	1794.562	1710.545	1666.065	1668.262
23.0	1815.429	1775.892	1689.129	1644.649	1647.395
23.5	1799.504	1756.672	1667.163	1622.684	1626.528
24.0	1783.579	1738.551	1645.747	1600.719	1605.661
24.5	1767.105	1719.331	1624.331	1579.852	1585.343
25.0	1750.631	1700.660	1602.915	1558.435	1565.025
25.5	1734.707	1681.990	1580.950	1537.568	1544.707
26.0	1718.233	1663.320	1560.083	1516.152	1524.938
26.5	1702.308	1644.100	1538.118	1494.736	1505.170

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27.0	1685.834	1625.429	1516.701	1473.869	1485.950
27.5	1669.909	1606.759	1495.285	1453.551	1466.181
28.0	1653.984	1588.089	1474.418	1433.233	1446.962
28.5	1637.510	1569.418	1453.551	1412.916	1428.840
29.0	1621.036	1550.748	1432.684	1393.147	1409.621
29.5	1605.112	1532.626	1412.366	1373.378	1390.950
30.0	1589.187	1513.956	1391.499	1353.609	1373.378
30.5	1573.811	1495.285	1371.182	1334.390	1355.257
31.0	1558.435	1477.164	1350.315	1315.170	1337.685
31.5	1541.961	1459.043	1330.546	1296.500	1320.112
32.0	1526.037	1440.372	1310.228	1277.829	1302.540
32.5	1510.112	1422.251	1289.910	1259.159	1285.517
33.0	1493.638	1404.679	1270.141	1240.488	1268.494
33.5	1478.262	1386.557	1250.373	1222.367	1252.020
34.0	1461.788	1368.436	1230.604	1204.795	1235.546
34.5	1445.863	1350.864	1211.933	1186.673	1219.072
35.0	1429.939	1332.742	1192.714	1169.650	1203.147
35.5	1414.563	1314.621	1173.494	1152.078	1187.222
36.0	1398.638	1297.049	1154.275	1135.055	1171.298
36.5	1382.713	1279.477	1136.153	1118.032	1155.922
37.0	1366.788	1261.904	1118.032	1101.009	1140.546
37.5	1350.864	1244.881	1099.911	1084.535	1125.171
38.0	1335.488	1227.858	1082.338	1068.610	1109.795
38.5	1319.563	1210.286	1064.766	1052.685	1094.968
39.0	1303.089	1192.714	1047.194	1037.310	1080.142
39.5	1287.714	1176.240	1030.171	1021.385	1065.864
40.0	1271.789	1159.217	1013.697	1006.558	1051.587
40.5	1256.413	1142.743	997.223	991.182	1037.310
41.0	1239.939	1125.720	981.298	976.356	1023.032
41.5	1224.563	1109.795	965.373	962.079	1009.304
42.0	1208.639	1093.321	949.448	947.801	995.026
42.5	1193.263	1077.396	934.073	933.524	981.298
43.0	1177.338	1060.922	918.697	918.697	968.119
43.5	1161.413	1044.997	903.871	904.969	954.391
44.0	1145.488	1029.073	889.044	891.241	941.212
44.5	1130.113	1013.148	874.767	877.512	928.032
45.0	1114.188	997.772	859.940	863.784	914.304
45.5	1098.263	981.847	845.663	850.605	901.125
46.0	1082.887	965.922	831.934	836.877	887.946
46.5	1067.512	950.547	818.206	823.697	874.767
47.0	1052.136	935.171	804.478	810.518	861.038
47.5	1036.211	919.795	790.749	797.888	847.859
48.0	1020.286	904.420	777.570	784.709	834.680
48.5	1004.362	889.044	763.842	771.530	821.501
49.0	989.535	874.217	751.212	758.351	808.322
49.5	973.061	858.842	738.033	745.721	795.692
50.0	957.685	844.015	724.854	732.542	782.512
50.5	942.310	829.189	712.224	719.911	769.882
51.0	926.385	814.362	699.594	707.281	756.703
51.5	911.009	798.986	687.513	694.102	742.975
52.0	894.535	784.160	674.883	681.472	730.345
52.5	879.160	769.333	662.802	668.842	717.166
53.0	863.784	755.056	651.270	656.761	703.987
53.5	848.408	740.229	639.189	644.131	690.808
54.0	832.483	725.952	627.108	631.501	677.628
54.5	817.108	712.224	615.576	619.420	664.449

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55.0	801.732	697.946	604.045	607.340	652.368
55.5	786.356	683.669	592.513	595.259	639.738
56.0	770.981	669.941	580.981	583.178	626.559
56.5	756.154	656.212	569.449	571.646	613.929
57.0	741.328	642.484	558.467	559.565	601.299
57.5	725.952	628.756	547.429	547.704	588.669
58.0	711.125	615.576	536.227	536.062	576.588
58.5	696.299	601.848	525.299	524.256	564.507
59.0	681.472	588.669	514.152	512.669	551.877
59.5	667.195	575.490	503.224	501.247	539.467
60.0	652.368	562.311	492.187	489.825	527.551
60.5	638.091	549.132	481.149	478.513	515.909
61.0	623.813	536.172	470.331	467.091	503.993
61.5	608.987	523.377	459.074	455.889	492.351
62.0	595.259	510.637	448.201	444.687	480.984
62.5	580.981	498.172	437.109	433.649	469.343
63.0	566.704	485.652	426.126	422.776	457.591
63.5	553.525	473.516	415.198	412.013	446.609
64.0	539.247	461.161	403.941	401.250	435.297
64.5	524.970	448.970	392.904	390.652	424.204
65.0	510.308	437.109	381.811	380.383	413.331
65.5	496.360	424.973	370.938	370.279	402.459
66.0	482.522	412.837	360.230	360.066	390.652
66.5	469.068	401.031	349.632	350.291	379.779
67.0	455.614	389.060	339.199	340.626	369.071
67.5	441.886	377.363	328.875	330.907	358.528
68.0	427.609	365.831	318.936	321.352	347.875
68.5	413.661	354.684	309.326	311.797	337.716
69.0	400.427	343.317	299.826	302.297	327.228
69.5	387.522	332.280	290.491	292.962	316.849
70.0	374.453	321.517	281.265	283.791	306.580
70.5	361.823	310.644	272.150	274.785	296.696
71.0	348.863	299.936	263.199	265.780	286.702
71.5	336.508	289.392	254.358	256.884	276.982
72.0	323.933	279.014	245.517	248.043	267.317
72.5	311.687	268.525	236.676	239.312	257.707
73.0	299.441	258.202	228.054	230.525	248.262
73.5	287.525	247.933	219.378	221.849	238.762
74.0	275.774	237.719	210.757	213.118	229.317
74.5	263.968	227.615	202.245	204.552	220.037
75.0	252.381	217.566	193.953	195.985	210.812
75.5	240.794	207.627	185.661	187.638	201.476
76.0	229.427	197.742	177.205	179.182	192.471
76.5	218.225	187.858	169.023	170.835	183.300
77.0	207.297	177.864	160.950	162.543	174.294
77.5	196.369	168.254	152.768	154.526	165.344
78.0	185.552	159.083	144.641	146.453	156.502
78.5	174.843	149.858	136.734	138.546	147.716
79.0	164.465	140.907	128.826	130.693	139.150
79.5	154.526	132.121	121.029	122.841	130.638
80.0	144.641	123.719	113.231	114.988	122.182
80.5	134.977	115.373	105.488	107.245	114.384
81.0	125.531	107.190	97.855	99.887	106.861
81.5	116.361	99.393	90.277	93.023	99.942
82.0	107.575	91.760	82.974	86.433	93.133
82.5	99.173	84.456	75.725	80.283	86.378

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-940-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

83.0	91.211	77.318	68.916	74.407	79.789
83.5	83.523	70.508	62.656	68.477	73.419
84.0	76.384	64.029	56.945	62.601	67.159
84.5	69.300	57.714	51.783	56.835	61.118
85.0	62.601	51.673	46.896	51.179	55.298
85.5	56.176	45.907	42.338	45.743	49.641
86.0	49.806	40.306	38.000	40.636	44.589
86.5	43.601	35.090	33.881	36.078	40.032
87.0	37.396	30.422	30.037	32.179	35.803
87.5	31.191	26.194	26.633	28.884	32.124
88.0	25.095	22.185	23.448	25.864	28.829
88.5	19.659	18.341	20.153	22.844	25.644
89.0	14.662	14.168	16.144	18.506	20.483
89.5	9.061	9.006	10.818	13.893	16.144
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-L50-940-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-L50-940-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-L50-940-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	778.18	N.A.	18.00
0-30	1527.3	N.A.	35.40
0-40	2311.28	N.A.	53.50
0-60	3622.83	N.A.	83.90
0-80	4257.67	N.A.	98.60
0-90	4319.18	N.A.	100.00
10-90	4105.41	N.A.	95.10
20-40	1533.11	N.A.	35.50
20-50	2254.46	N.A.	52.20
40-70	1723.81	N.A.	39.90
60-80	634.85	N.A.	14.70
70-80	222.58	N.A.	5.20
80-90	61.51	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	4319.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.77
10-20	564.40
20-30	749.13
30-40	783.98
40-50	721.35
50-60	590.19
60-70	412.26
70-80	222.58
80-90	61.51
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

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-L50-940-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

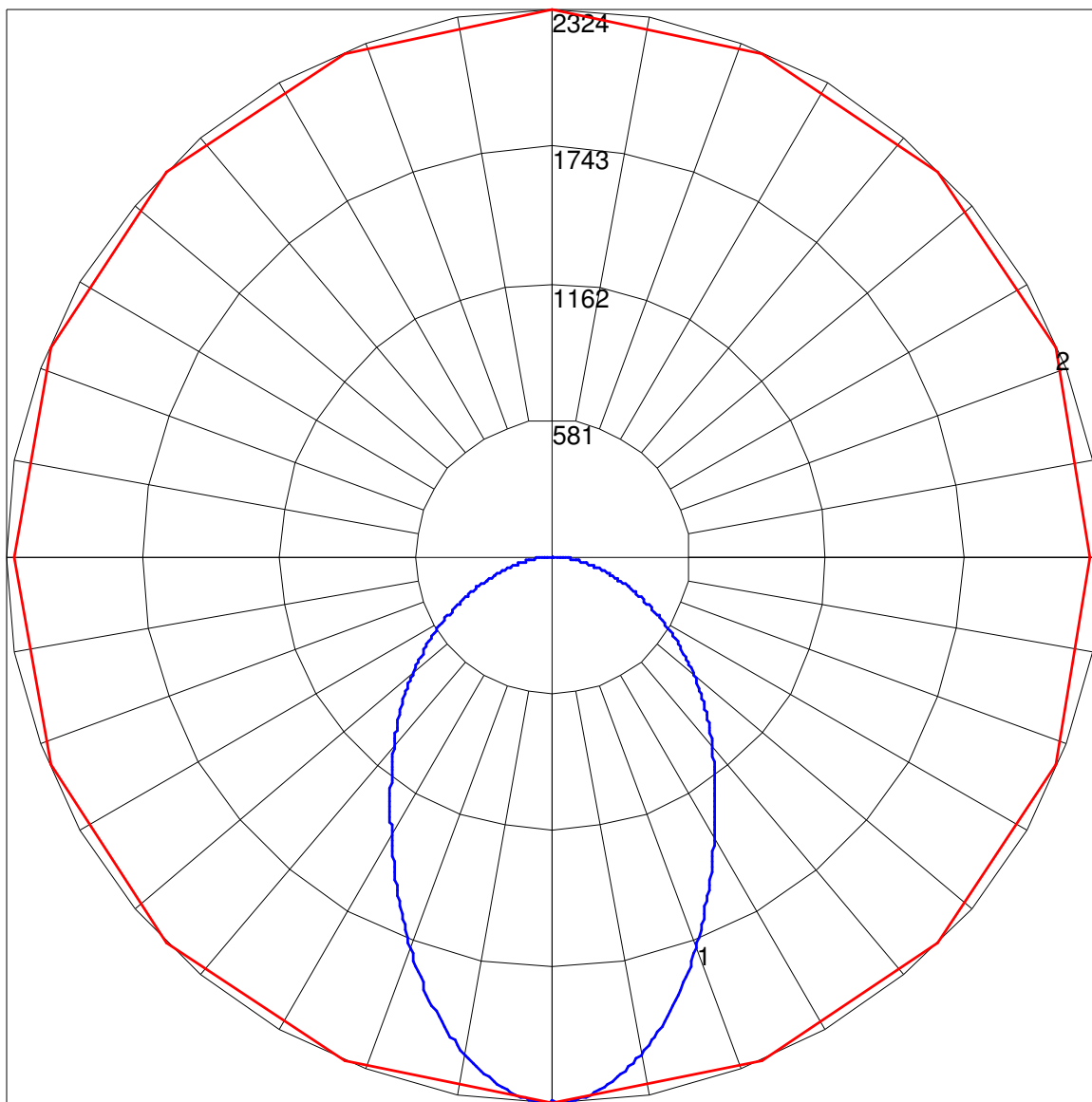
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.9	15.5	14.3	15.8	16.1	12.9	14.4	13.2	14.7	15.0
	3H	15.6	17.0	16.0	17.3	17.7	14.5	15.9	14.9	16.2	16.6
	4H	16.2	17.5	16.6	17.9	18.2	15.1	16.4	15.5	16.8	17.1
	6H	16.6	17.8	17.1	18.2	18.6	15.5	16.7	16.0	17.1	17.5
	8H	16.8	17.9	17.2	18.3	18.7	15.7	16.8	16.1	17.2	17.6
	12H	16.9	17.9	17.3	18.3	18.8	15.8	16.9	16.2	17.3	17.7
4H	2H	14.3	15.6	14.7	15.9	16.3	13.4	14.7	13.8	15.0	15.4
	3H	16.2	17.2	16.6	17.6	18.0	15.2	16.3	15.6	16.7	17.1
	4H	16.9	17.9	17.3	18.3	18.7	15.9	16.9	16.4	17.3	17.8
	6H	17.4	18.3	17.9	18.7	19.2	16.5	17.4	17.0	17.8	18.3
	8H	17.6	18.4	18.1	18.8	19.3	16.7	17.5	17.1	17.9	18.4
	12H	17.7	18.4	18.2	18.9	19.4	16.8	17.5	17.3	18.0	18.5
8H	4H	17.1	17.8	17.5	18.3	18.8	16.2	17.0	16.7	17.4	17.9
	6H	17.7	18.4	18.2	18.8	19.3	16.9	17.5	17.4	18.0	18.5
	8H	17.9	18.5	18.4	19.0	19.5	17.1	17.7	17.6	18.2	18.7
	12H	18.1	18.6	18.6	19.1	19.7	17.3	17.8	17.8	18.3	18.9
12H	4H	17.1	17.8	17.5	18.2	18.7	16.2	16.9	16.7	17.4	17.9
	6H	17.7	18.3	18.2	18.8	19.3	16.9	17.5	17.4	18.0	18.5
	8H	18.0	18.5	18.5	19.0	19.6	17.2	17.7	17.7	18.2	18.8

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 2323.925 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.)