

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-930-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-L50-930-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	4118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	2199	1697	1805
55	1951	1470	1587
65	1685	1261	1365
75	1361	1046	1137
85	1002	751	885

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-930-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	2206.934	2206.934	2206.934	2206.934	2206.934
0.5	2181.279	2204.840	2212.170	2210.600	2215.836
1.0	2180.231	2203.793	2211.123	2209.552	2214.265
1.5	2179.184	2202.222	2209.552	2206.934	2212.170
2.0	2177.090	2200.128	2206.934	2203.793	2208.505
2.5	2174.472	2196.986	2203.269	2199.604	2204.317
3.0	2171.854	2193.845	2199.081	2194.892	2199.604
3.5	2167.665	2189.656	2194.368	2189.132	2193.845
4.0	2163.476	2184.944	2188.609	2182.849	2187.038
4.5	2158.764	2179.708	2182.326	2175.519	2179.184
5.0	2153.528	2173.948	2175.519	2167.665	2171.330
5.5	2147.769	2167.142	2167.665	2158.764	2162.429
6.0	2141.486	2159.811	2158.764	2149.863	2151.957
6.5	2134.155	2153.005	2149.340	2139.391	2142.009
7.0	2126.825	2145.151	2139.915	2128.919	2130.490
7.5	2119.495	2136.250	2129.443	2117.924	2118.448
8.0	2111.117	2126.825	2118.971	2105.881	2106.405
8.5	2102.216	2117.400	2106.929	2092.792	2093.315
9.0	2093.315	2107.452	2095.410	2079.702	2079.702
9.5	2084.414	2096.980	2083.367	2066.612	2066.089
10.0	2074.466	2085.985	2070.277	2052.475	2051.428
10.5	2064.518	2074.990	2057.188	2037.815	2035.720
11.0	2054.046	2062.947	2043.051	2022.631	2020.536
11.5	2043.574	2050.904	2028.914	2006.923	2004.829
12.0	2032.579	2038.338	2014.253	1990.692	1988.597
12.5	2021.060	2025.249	1999.069	1973.937	1972.366
13.0	2009.541	2012.159	1983.885	1957.182	1955.611
13.5	1997.498	1998.545	1968.177	1940.427	1939.380
14.0	1985.456	1984.408	1951.946	1922.625	1921.578
14.5	1972.889	1970.795	1935.191	1904.823	1903.252
15.0	1960.323	1956.658	1918.436	1885.973	1885.450
15.5	1947.757	1941.474	1901.158	1867.648	1867.124
16.0	1934.667	1926.813	1883.879	1849.322	1848.275
16.5	1921.578	1911.629	1865.553	1829.949	1829.426
17.0	1908.488	1895.922	1847.228	1811.100	1810.053
17.5	1894.874	1879.690	1828.902	1791.727	1790.680
18.0	1880.738	1863.459	1810.053	1771.831	1770.783
18.5	1866.077	1847.228	1790.680	1751.934	1750.887
19.0	1851.940	1830.996	1771.831	1732.038	1730.991
19.5	1837.280	1814.242	1752.458	1712.141	1711.618
20.0	1822.619	1797.487	1732.561	1691.198	1691.198
20.5	1807.958	1780.208	1712.665	1671.301	1671.301
21.0	1792.774	1762.930	1692.245	1650.358	1651.405
21.5	1777.067	1745.651	1671.825	1629.938	1630.985
22.0	1761.359	1728.373	1651.405	1609.518	1611.088
22.5	1746.175	1711.094	1630.985	1588.574	1590.668
23.0	1730.991	1693.292	1610.565	1568.154	1570.772
23.5	1715.806	1674.966	1589.621	1547.210	1550.875
24.0	1700.622	1657.688	1569.201	1526.267	1530.979
24.5	1684.915	1639.362	1548.781	1506.370	1511.606
25.0	1669.207	1621.560	1528.361	1485.950	1492.233
25.5	1654.023	1603.758	1507.417	1466.054	1472.860
26.0	1638.315	1585.956	1487.521	1445.634	1454.011
26.5	1623.131	1567.630	1466.577	1425.214	1435.162

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27.0	1607.423	1549.828	1446.157	1405.317	1416.836
27.5	1592.239	1532.026	1425.737	1385.944	1397.987
28.0	1577.055	1514.224	1405.841	1366.572	1379.661
28.5	1561.347	1496.422	1385.944	1347.199	1362.383
29.0	1545.640	1478.620	1366.048	1328.349	1344.057
29.5	1530.455	1461.341	1346.675	1309.500	1326.255
30.0	1515.271	1443.539	1326.779	1290.651	1309.500
30.5	1500.611	1425.737	1307.406	1272.325	1292.222
31.0	1485.950	1408.459	1287.509	1254.000	1275.467
31.5	1470.242	1391.180	1268.660	1236.197	1258.712
32.0	1455.058	1373.378	1249.287	1218.395	1241.957
32.5	1439.874	1356.100	1229.914	1200.593	1225.726
33.0	1424.166	1339.345	1211.065	1182.791	1209.494
33.5	1409.506	1322.066	1192.216	1165.513	1193.787
34.0	1393.798	1304.788	1173.367	1148.758	1178.079
34.5	1378.614	1288.033	1155.565	1131.479	1162.371
35.0	1363.430	1270.754	1137.239	1115.248	1147.187
35.5	1348.769	1253.476	1118.913	1098.493	1132.003
36.0	1333.585	1236.721	1100.587	1082.262	1116.819
36.5	1318.401	1219.966	1083.309	1066.031	1102.158
37.0	1303.217	1203.211	1066.031	1049.799	1087.498
37.5	1288.033	1186.980	1048.752	1034.091	1072.837
38.0	1273.372	1170.749	1031.997	1018.907	1058.177
38.5	1258.188	1153.994	1015.242	1003.723	1044.040
39.0	1242.481	1137.239	998.487	989.063	1029.903
39.5	1227.820	1121.531	982.256	973.879	1016.289
40.0	1212.636	1105.300	966.548	959.742	1002.676
40.5	1197.975	1089.592	950.841	945.081	989.063
41.0	1182.268	1073.361	935.656	930.944	975.449
41.5	1167.607	1058.177	920.472	917.331	962.360
42.0	1152.423	1042.469	905.288	903.717	948.746
42.5	1137.762	1027.285	890.628	890.104	935.656
43.0	1122.578	1011.577	875.967	875.967	923.090
43.5	1107.394	996.393	861.830	862.877	910.001
44.0	1092.210	981.209	847.693	849.788	897.434
44.5	1077.550	966.025	834.080	836.698	884.868
45.0	1062.365	951.364	819.943	823.608	871.778
45.5	1047.181	936.180	806.330	811.042	859.212
46.0	1032.521	920.996	793.240	797.952	846.646
46.5	1017.860	906.335	780.150	785.386	834.080
47.0	1003.200	891.675	767.060	772.820	820.990
47.5	988.016	877.014	753.970	760.777	808.424
48.0	972.831	862.354	741.404	748.211	795.858
48.5	957.647	847.693	728.315	735.645	783.292
49.0	943.510	833.556	716.272	723.079	770.725
49.5	927.803	818.896	703.706	711.036	758.683
50.0	913.142	804.759	691.140	698.470	746.117
50.5	898.482	790.622	679.097	686.427	734.074
51.0	883.297	776.485	667.054	674.385	721.508
51.5	868.637	761.824	655.535	661.819	708.418
52.0	852.929	747.687	643.493	649.776	696.376
52.5	838.269	733.550	631.974	637.733	683.809
53.0	823.608	719.937	620.978	626.214	671.243
53.5	808.948	705.800	609.459	614.172	658.677
54.0	793.763	692.187	597.940	602.129	646.111
54.5	779.103	679.097	586.945	590.610	633.545

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55.0	764.442	665.484	575.950	579.091	622.026
55.5	749.782	651.870	564.954	567.572	609.983
56.0	735.121	638.781	553.959	556.053	597.417
56.5	720.984	625.691	542.963	545.058	585.374
57.0	706.847	612.601	532.492	533.539	573.332
57.5	692.187	599.511	521.967	522.229	561.289
58.0	678.050	586.945	511.286	511.129	549.770
58.5	663.913	573.855	500.867	499.872	538.251
59.0	649.776	561.289	490.238	488.824	526.209
59.5	636.163	548.723	479.818	477.934	514.375
60.0	622.026	536.157	469.294	467.043	503.014
60.5	608.412	523.591	458.770	456.257	491.913
61.0	594.799	511.234	448.455	445.366	480.551
61.5	580.662	499.034	437.722	434.685	469.451
62.0	567.572	486.887	427.355	424.004	458.613
62.5	553.959	475.001	416.778	413.480	447.513
63.0	540.346	463.064	406.306	403.112	436.308
63.5	527.779	451.492	395.887	392.850	425.836
64.0	514.166	439.711	385.153	382.588	415.050
64.5	500.553	428.088	374.629	372.482	404.474
65.0	486.573	416.778	364.053	362.691	394.107
65.5	473.274	405.207	353.685	353.057	383.740
66.0	460.079	393.635	343.475	343.318	372.482
66.5	447.251	382.378	333.370	333.998	362.115
67.0	434.423	370.964	323.422	324.783	351.905
67.5	421.333	359.811	313.578	315.516	341.852
68.0	407.720	348.816	304.101	306.405	331.695
68.5	394.421	338.187	294.939	297.295	322.008
69.0	381.802	327.349	285.880	288.237	312.008
69.5	369.498	316.825	276.979	279.336	302.112
70.0	357.036	306.562	268.183	270.592	292.321
70.5	344.994	296.195	259.492	262.005	282.896
71.0	332.637	285.985	250.957	253.418	273.367
71.5	320.856	275.932	242.527	244.936	264.099
72.0	308.866	266.036	234.097	236.506	254.884
72.5	297.190	256.036	225.668	228.181	245.721
73.0	285.514	246.192	217.447	219.803	236.715
73.5	274.152	236.401	209.174	211.531	227.657
74.0	262.947	226.662	200.954	203.206	218.651
74.5	251.690	217.028	192.838	195.038	209.803
75.0	240.642	207.447	184.932	186.869	201.006
75.5	229.594	197.970	177.026	178.911	192.105
76.0	218.756	188.545	168.963	170.848	183.519
76.5	208.075	179.120	161.161	162.889	174.775
77.0	197.655	169.591	153.464	154.983	166.188
77.5	187.236	160.428	145.663	147.338	157.653
78.0	176.921	151.684	137.914	139.642	149.223
78.5	166.711	142.888	130.374	132.102	140.846
79.0	156.815	134.353	122.834	124.615	132.678
79.5	147.338	125.976	115.399	117.127	124.562
80.0	137.914	117.965	107.964	109.640	116.499
80.5	128.699	110.006	100.582	102.257	109.064
81.0	119.693	102.205	93.304	95.241	101.891
81.5	110.949	94.770	86.078	88.696	95.293
82.0	102.571	87.492	79.115	82.413	88.801
82.5	94.560	80.528	72.203	76.549	82.361

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L50-930-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

83.0	86.968	73.722	65.711	70.947	76.078
83.5	79.638	67.229	59.742	65.292	70.004
84.0	72.831	61.051	54.296	59.689	64.035
84.5	66.077	55.029	49.375	54.192	58.276
85.0	59.689	49.270	44.715	48.799	52.726
85.5	53.563	43.772	40.369	43.615	47.333
86.0	47.490	38.432	36.232	38.746	42.516
86.5	41.573	33.457	32.306	34.400	38.170
87.0	35.657	29.007	28.640	30.682	34.138
87.5	29.740	24.975	25.394	27.541	30.630
88.0	23.928	21.153	22.357	24.661	27.489
88.5	18.745	17.488	19.216	21.781	24.452
89.0	13.980	13.509	15.394	17.645	19.530
89.5	8.639	8.587	10.315	13.247	15.394
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-L50-930-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-L50-930-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-L50-930-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	741.98	N.A.	18.00
0-30	1456.27	N.A.	35.40
0-40	2203.78	N.A.	53.50
0-60	3454.32	N.A.	83.90
0-80	4059.64	N.A.	98.60
0-90	4118.29	N.A.	100.00
10-90	3914.46	N.A.	95.10
20-40	1461.8	N.A.	35.50
20-50	2149.6	N.A.	52.20
40-70	1643.63	N.A.	39.90
60-80	605.32	N.A.	14.70
70-80	212.23	N.A.	5.20
80-90	58.65	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	4118.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.83
10-20	538.15
20-30	714.29
30-40	747.52
40-50	687.80
50-60	562.74
60-70	393.09
70-80	212.23
80-90	58.65
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-L50-930-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-L50-930-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

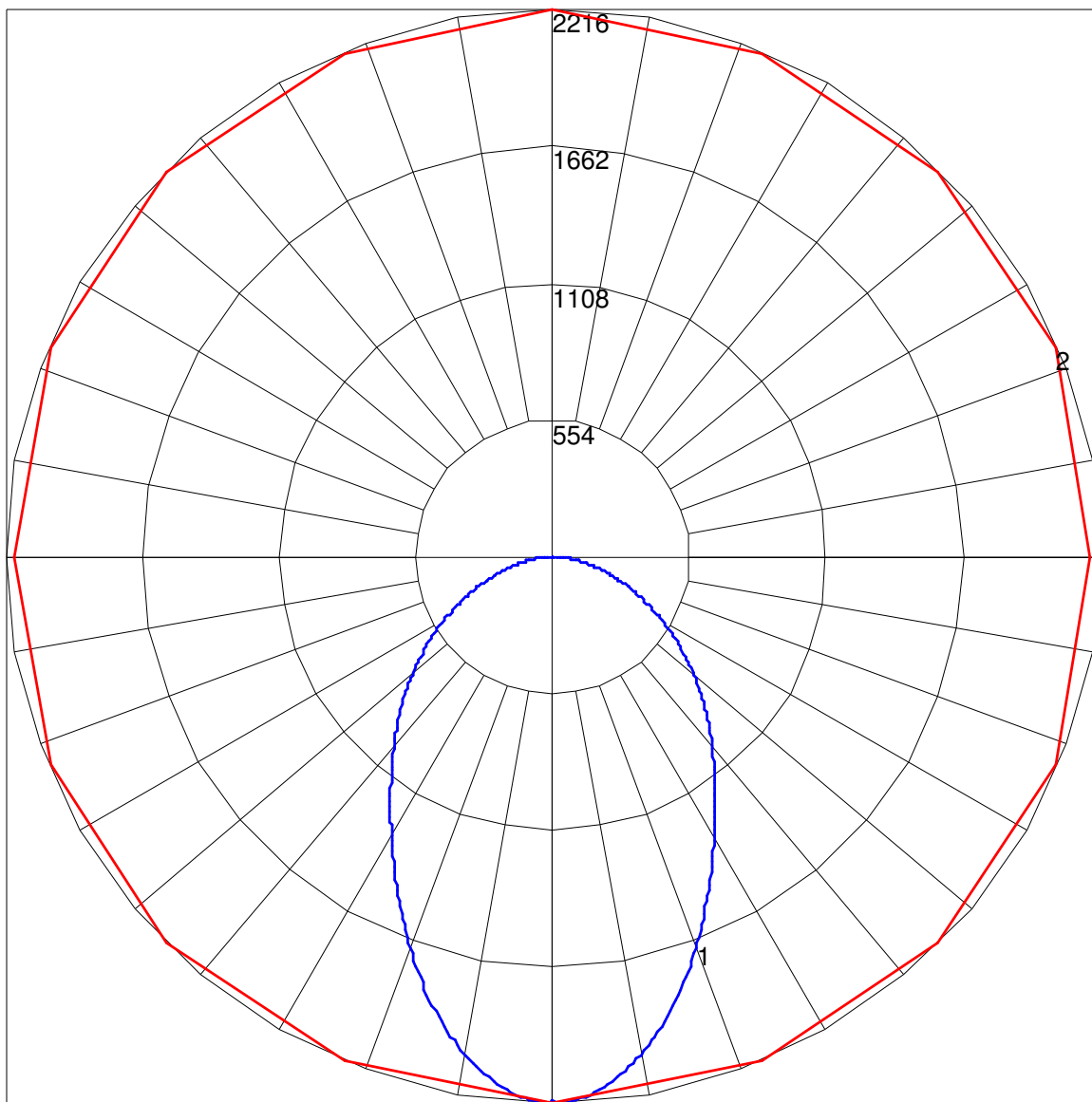
X=2H	Y=2H	13.7	15.3	14.1	15.6	15.9	12.7	14.2	13.0	14.5	14.8
	3H	15.4	16.8	15.8	17.1	17.5	14.3	15.7	14.7	16.0	16.4
	4H	16.0	17.3	16.4	17.7	18.0	14.9	16.2	15.3	16.6	16.9
	6H	16.4	17.6	16.9	18.0	18.4	15.3	16.5	15.8	16.9	17.3
	8H	16.6	17.7	17.0	18.1	18.5	15.5	16.6	15.9	17.0	17.4
	12H	16.7	17.7	17.1	18.1	18.6	15.6	16.7	16.0	17.1	17.5

UGR Viewed Endwise

4H	2H	14.1	15.4	14.5	15.7	16.1	13.2	14.5	13.6	14.8	15.2
	3H	16.0	17.0	16.4	17.4	17.8	15.0	16.1	15.4	16.5	16.9
	4H	16.7	17.7	17.1	18.1	18.5	15.7	16.7	16.2	17.1	17.6
	6H	17.2	18.1	17.7	18.5	19.0	16.3	17.2	16.8	17.6	18.1
	8H	17.4	18.2	17.9	18.6	19.1	16.5	17.3	16.9	17.7	18.2
	12H	17.5	18.2	18.0	18.7	19.2	16.6	17.3	17.1	17.8	18.3
8H	4H	16.9	17.6	17.3	18.1	18.6	16.0	16.8	16.5	17.2	17.7
	6H	17.5	18.1	18.0	18.6	19.1	16.7	17.3	17.2	17.8	18.3
	8H	17.7	18.3	18.2	18.8	19.3	16.9	17.5	17.4	18.0	18.5
	12H	17.9	18.4	18.4	18.9	19.5	17.1	17.6	17.6	18.1	18.7
12H	4H	16.9	17.6	17.3	18.0	18.5	16.0	16.7	16.5	17.2	17.7
	6H	17.5	18.1	18.0	18.6	19.1	16.7	17.3	17.2	17.8	18.3
	8H	17.8	18.3	18.3	18.8	19.4	17.0	17.5	17.5	18.0	18.6

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 2215.836 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.)