

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-927-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15746385.02
[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-22-L50-927-DMA-DIM-UNV
[LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	53.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.90 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	3958	3430	4032
55	3487	2977	3541
65	3007	2545	3039
75	2453	2120	2516
85	1716	1296	1716

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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	2167.564	2167.564	2167.564	2167.564	2167.564
0.5	2159.285	2168.599	2172.221	2168.082	2159.285
1.0	2157.733	2167.564	2170.669	2167.564	2157.733
1.5	2156.181	2165.495	2169.117	2165.495	2156.181
2.0	2153.594	2162.908	2166.530	2162.390	2153.076
2.5	2149.971	2159.803	2162.908	2159.285	2149.971
3.0	2146.349	2155.663	2158.768	2155.146	2146.349
3.5	2141.692	2150.489	2153.594	2150.489	2141.175
4.0	2136.001	2144.797	2147.902	2145.314	2136.518
4.5	2129.791	2138.588	2141.692	2139.105	2130.826
5.0	2122.547	2131.344	2134.966	2132.378	2124.099
5.5	2114.785	2123.582	2127.204	2125.652	2117.373
6.0	2107.024	2114.785	2118.925	2117.890	2110.128
6.5	2097.710	2105.989	2110.128	2109.094	2101.849
7.0	2087.878	2096.157	2100.297	2099.780	2093.053
7.5	2077.530	2085.809	2089.948	2090.466	2083.739
8.0	2067.181	2074.425	2079.082	2080.634	2074.425
8.5	2055.797	2063.041	2068.216	2069.768	2063.559
9.0	2043.896	2050.623	2056.314	2058.384	2053.210
9.5	2031.995	2038.721	2043.896	2047.001	2041.826
10.0	2019.576	2025.785	2030.960	2034.582	2029.925
10.5	2006.640	2012.332	2018.541	2022.163	2018.541
11.0	1993.187	1998.878	2004.570	2009.227	2007.157
11.5	1979.216	1984.390	1990.599	1995.256	1994.221
12.0	1965.245	1969.902	1975.594	1981.803	1981.285
12.5	1951.274	1954.896	1960.588	1967.832	1967.832
13.0	1935.750	1939.890	1945.582	1953.344	1954.378
13.5	1921.780	1924.367	1930.059	1938.855	1940.925
14.0	1906.774	1908.843	1914.018	1924.367	1926.954
14.5	1890.733	1892.803	1897.460	1908.843	1912.466
15.0	1874.692	1876.762	1880.384	1893.320	1897.977
15.5	1859.169	1860.204	1863.309	1877.797	1882.971
16.0	1843.128	1843.128	1845.716	1861.756	1867.966
16.5	1826.570	1826.570	1828.640	1845.198	1852.442
17.0	1810.012	1808.977	1810.012	1828.123	1836.402
17.5	1793.454	1791.384	1791.902	1811.564	1821.396
18.0	1776.378	1773.791	1773.274	1793.971	1805.355
18.5	1759.303	1755.681	1754.646	1776.378	1788.797
19.0	1742.227	1737.053	1735.500	1758.785	1772.239
19.5	1725.152	1718.942	1716.355	1740.675	1755.163
20.0	1708.076	1700.314	1697.210	1722.047	1738.605
20.5	1689.966	1681.169	1677.547	1703.936	1721.529
21.0	1672.373	1662.541	1657.367	1685.309	1704.971
21.5	1654.262	1643.913	1637.186	1666.681	1687.378
22.0	1636.669	1625.285	1617.524	1647.535	1669.268
22.5	1619.593	1606.140	1597.343	1628.907	1652.192
23.0	1601.483	1586.995	1577.681	1609.762	1634.599
23.5	1584.407	1568.367	1557.500	1591.134	1617.006
24.0	1567.849	1549.739	1537.838	1572.506	1599.413
24.5	1550.256	1530.593	1517.657	1553.361	1582.338
25.0	1533.181	1511.965	1497.477	1534.215	1565.262
25.5	1516.105	1493.338	1477.297	1515.070	1548.186
26.0	1499.029	1475.227	1457.634	1496.960	1532.146
26.5	1482.471	1457.117	1437.971	1478.332	1514.553

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27.0	1465.913	1439.006	1418.308	1460.221	1498.512
27.5	1449.355	1420.896	1398.646	1442.111	1481.954
28.0	1433.832	1403.303	1378.983	1424.000	1465.396
28.5	1417.274	1385.710	1359.838	1405.890	1449.355
29.0	1401.750	1368.117	1340.692	1387.779	1433.314
29.5	1385.710	1351.041	1321.029	1369.669	1416.756
30.0	1369.669	1333.448	1301.884	1352.076	1400.715
30.5	1354.146	1316.372	1282.739	1334.483	1384.675
31.0	1338.622	1299.297	1263.593	1316.890	1369.152
31.5	1323.099	1282.221	1244.965	1299.297	1353.111
32.0	1307.058	1265.663	1226.338	1282.221	1337.588
32.5	1291.535	1249.105	1208.227	1264.628	1322.064
33.0	1276.529	1232.029	1189.599	1247.035	1306.024
33.5	1261.006	1215.989	1171.489	1229.960	1290.500
34.0	1246.000	1198.913	1153.378	1212.884	1274.460
34.5	1230.994	1182.872	1135.785	1195.291	1259.454
35.0	1216.506	1166.314	1118.192	1178.215	1243.931
35.5	1201.500	1150.274	1100.599	1161.657	1227.890
36.0	1187.012	1134.233	1083.524	1145.099	1212.884
36.5	1172.524	1118.192	1066.448	1128.541	1197.878
37.0	1158.035	1102.669	1049.372	1111.983	1182.355
37.5	1143.547	1087.146	1032.814	1095.425	1166.832
38.0	1129.576	1072.140	1016.774	1079.901	1151.826
38.5	1115.605	1057.134	1000.733	1063.861	1136.820
39.0	1101.117	1041.611	984.692	1048.337	1122.332
39.5	1087.663	1026.605	969.169	1032.814	1107.843
40.0	1073.692	1012.117	953.646	1017.291	1093.355
40.5	1059.204	997.628	938.640	1001.768	1078.867
41.0	1045.233	983.140	923.634	986.762	1064.378
41.5	1031.779	968.651	909.146	972.273	1050.407
42.0	1017.808	955.198	894.140	957.268	1036.436
42.5	1003.837	940.710	879.651	943.297	1022.465
43.0	989.867	927.256	865.680	928.808	1008.494
43.5	976.413	913.285	851.710	914.837	994.524
44.0	962.960	899.832	837.739	900.867	980.553
44.5	949.506	886.378	824.285	886.378	966.582
45.0	935.535	872.925	810.832	872.407	953.128
45.5	922.082	858.954	797.378	858.954	939.157
46.0	908.628	846.018	783.925	844.983	925.186
46.5	894.657	832.564	770.989	831.012	911.733
47.0	881.204	819.111	758.053	817.041	897.244
47.5	867.233	805.657	745.116	803.587	883.791
48.0	853.779	792.204	732.698	790.134	869.820
48.5	840.843	779.268	720.279	776.680	855.849
49.0	827.390	765.814	707.861	763.227	842.396
49.5	813.936	752.878	695.959	749.773	827.907
50.0	800.483	739.425	683.541	736.320	814.454
50.5	787.029	726.489	671.640	722.866	800.483
51.0	773.576	713.553	660.256	709.930	787.029
51.5	760.122	700.099	648.872	696.994	773.058
52.0	747.186	687.680	637.489	684.058	759.605
52.5	733.733	674.744	626.105	671.122	746.151
53.0	720.797	662.326	614.721	658.186	732.180
53.5	707.343	649.390	603.337	645.768	718.727
54.0	693.890	637.489	592.471	633.349	705.273
54.5	681.471	625.070	581.605	620.930	691.820

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55.0	668.535	612.651	570.739	608.512	678.884
55.5	655.599	600.750	560.390	596.611	666.465
56.0	642.663	588.849	549.523	584.709	653.529
56.5	629.727	576.948	538.657	572.291	640.076
57.0	617.308	565.564	528.308	560.390	627.657
57.5	604.372	553.663	517.442	549.006	614.721
58.0	591.954	541.762	506.938	537.622	601.785
58.5	579.535	530.378	496.589	525.721	588.849
59.0	566.599	518.994	486.188	514.441	575.913
59.5	554.180	507.300	475.788	502.747	563.494
60.0	541.762	495.658	465.180	491.052	550.558
60.5	529.861	483.963	454.780	479.513	538.140
61.0	518.477	472.373	444.534	468.026	525.721
61.5	506.420	460.989	434.030	456.487	513.561
62.0	494.933	450.019	423.578	445.259	501.557
62.5	483.343	439.205	412.970	433.927	489.862
63.0	471.752	428.545	402.052	423.009	477.702
63.5	460.006	417.627	391.083	412.505	465.646
64.0	448.208	406.813	380.475	401.483	453.538
64.5	436.618	396.154	370.023	390.772	441.378
65.0	424.820	385.494	359.519	380.423	429.373
65.5	412.608	374.990	349.273	370.023	417.731
66.0	400.914	364.538	338.873	360.088	406.037
66.5	389.013	354.137	328.472	350.050	393.877
67.0	377.888	343.840	318.382	340.063	382.752
67.5	366.711	333.647	308.499	330.438	371.472
68.0	355.586	323.712	299.185	320.814	360.450
68.5	344.409	313.880	290.337	311.034	349.480
69.0	333.543	304.101	281.902	301.565	338.976
69.5	323.143	294.528	273.572	292.251	328.576
70.0	312.431	285.059	265.241	283.144	317.865
70.5	302.031	275.486	256.962	274.089	307.361
71.0	291.630	266.017	248.631	265.241	297.167
71.5	281.281	256.755	240.248	256.289	287.129
72.0	271.036	247.648	232.021	247.441	276.831
72.5	260.998	238.541	223.845	238.748	266.741
73.0	250.959	229.589	215.773	230.106	256.703
73.5	241.128	220.586	207.701	221.362	246.872
74.0	231.400	211.737	199.681	212.617	237.351
74.5	221.724	202.786	191.557	203.924	227.416
75.0	212.203	193.937	183.433	195.334	217.688
75.5	202.630	185.089	175.516	186.745	207.908
76.0	193.213	176.189	167.496	178.052	198.232
76.5	184.002	167.392	159.579	169.255	188.556
77.0	174.688	158.699	151.611	160.407	178.983
77.5	165.426	149.955	143.849	151.973	169.411
78.0	156.267	141.624	136.191	143.745	160.045
78.5	147.161	133.500	128.481	135.518	150.886
79.0	138.105	125.324	120.874	127.653	141.469
79.5	129.257	117.149	113.320	119.736	132.413
80.0	120.512	109.232	105.713	111.819	123.410
80.5	111.923	101.522	98.314	104.006	114.562
81.0	103.644	93.864	90.966	96.296	106.024
81.5	95.779	86.361	83.877	88.741	97.693
82.0	87.965	79.065	76.685	81.342	89.673
82.5	80.773	72.131	69.544	74.201	82.015

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CANDELA TABULATION - (Cont.)

83.0	73.942	65.715	62.300	67.319	74.770
83.5	67.681	59.816	55.315	60.799	67.888
84.0	61.627	54.383	48.743	54.797	61.576
84.5	55.729	49.260	42.741	49.209	55.677
85.0	49.985	44.448	37.773	44.034	49.985
85.5	44.190	39.533	33.737	38.912	44.500
86.0	38.808	34.720	30.322	34.048	39.067
86.5	33.634	30.063	27.166	29.442	34.203
87.0	29.080	25.613	24.165	25.251	29.805
87.5	24.734	21.629	21.163	21.733	25.872
88.0	20.749	18.214	18.007	18.731	22.198
88.5	16.817	15.006	14.385	15.575	18.524
89.0	11.798	10.815	9.573	10.711	13.867
89.5	4.657	5.123	4.502	4.760	6.468
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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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-22-L50-927-DMA-DIM-UNV_.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-22-L50-927-DMA-DIM-UNV_.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-22-L50-927-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	727.96	N.A.	18.00
0-30	1428.37	N.A.	35.40
0-40	2162.56	N.A.	53.60
0-60	3390.38	N.A.	84.00
0-80	3984.26	N.A.	98.70
0-90	4037.63	N.A.	100.00
10-90	3837.52	N.A.	95.00
20-40	1434.59	N.A.	35.50
20-50	2110.19	N.A.	52.30
40-70	1613.3	N.A.	40.00
60-80	593.87	N.A.	14.70
70-80	208.40	N.A.	5.20
80-90	53.37	N.A.	1.30
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	4037.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.11
10-20	527.86
20-30	700.41
30-40	734.18
40-50	675.60
50-60	552.23
60-70	385.47
70-80	208.40
80-90	53.37
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-22-L50-927-DMA-DIM-UNV_.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	73	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	74	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	54	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-22-L50-927-DMA-DIM-UNV_.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	15.7	17.2	16.1	17.6	17.9	UGR Viewed Endwise			
	3H	17.3	18.7	17.7	19.1	19.4	15.7	17.2	16.0	17.5
	4H	17.9	19.2	18.3	19.6	20.0	17.3	18.7	17.7	19.0
	6H	18.4	19.6	18.8	19.9	20.3	18.0	19.3	18.4	19.6
	8H	18.5	19.6	18.9	20.0	20.4	18.4	19.6	18.8	20.0
	12H	18.5	19.6	19.0	20.0	20.4	18.5	19.7	19.0	20.0

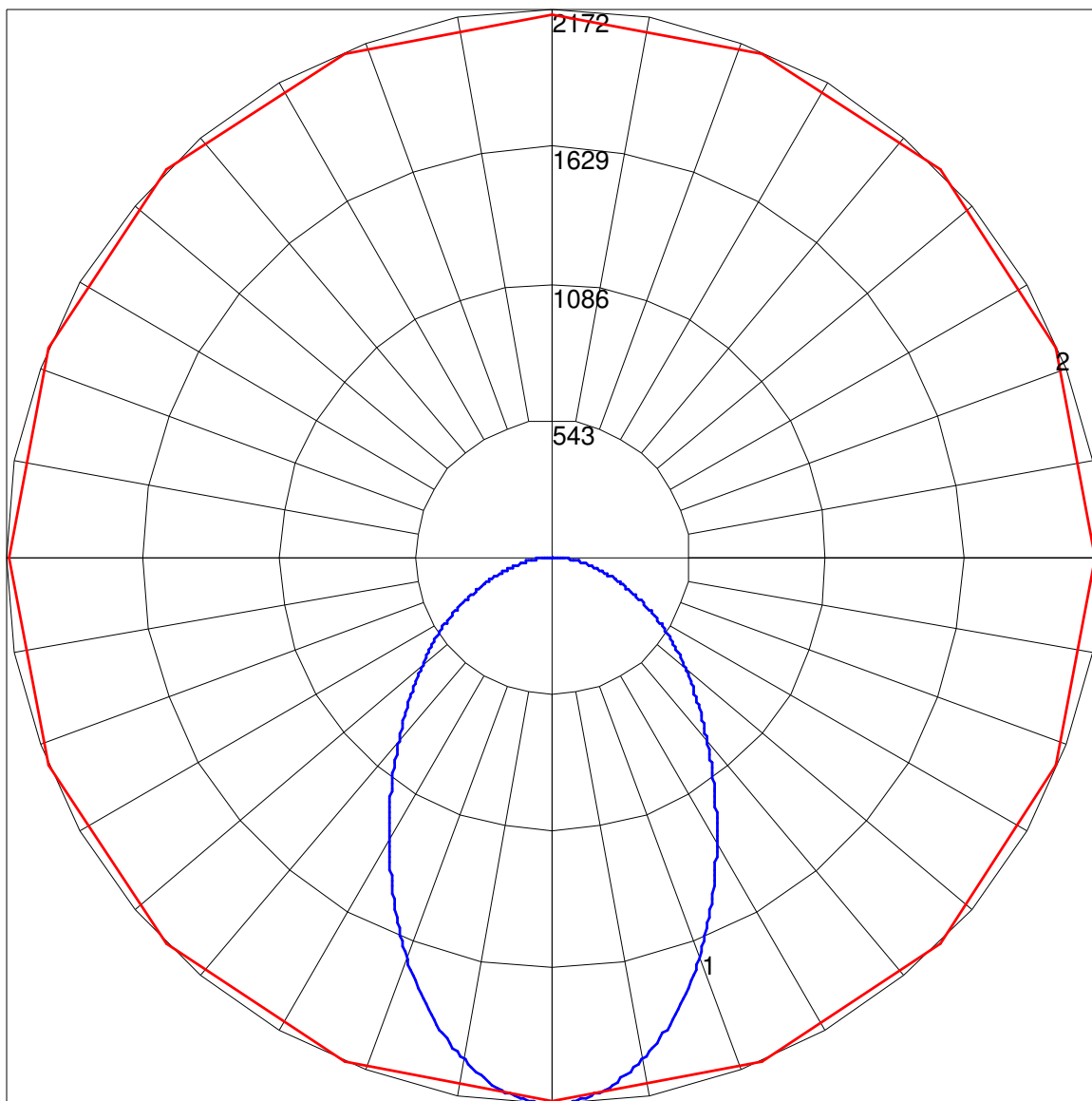
4H	2H	16.1	17.4	16.5	17.8	18.2	18.6	19.7	19.0	20.1
	3H	18.0	19.1	18.4	19.5	19.9	19.0	20.1	20.0	20.5
	4H	18.7	19.7	19.1	20.1	20.5	19.3	20.1	19.7	20.6
	6H	19.2	20.1	19.7	20.5	21.0	19.4	20.2	19.9	20.7
	8H	19.4	20.2	19.9	20.6	21.1	19.6	20.3	20.0	20.7
	12H	19.5	20.2	20.0	20.7	21.2				

8H	4H	18.9	19.7	19.4	20.2	20.6	18.9	19.7	19.4	20.2
	6H	19.5	20.2	20.0	20.7	21.2	19.6	20.2	20.1	20.7
	8H	19.7	20.3	20.3	20.8	21.3	19.8	20.4	20.3	20.9
	12H	19.9	20.4	20.4	20.9	21.5	20.0	20.5	20.5	21.0

12H	4H	18.9	19.6	19.4	20.1	20.6	18.9	19.7	19.4	20.1
	6H	19.6	20.2	20.1	20.6	21.2	19.6	20.2	20.1	20.7
	8H	19.8	20.3	20.3	20.8	21.4	19.9	20.4	20.4	20.9

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 2172.221 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)