

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-950-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-L50-950-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	4492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	4403	3816	4486
55	3879	3312	3939
65	3345	2831	3381
75	2729	2359	2799
85	1909	1442	1909

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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	2411.415	2411.415	2411.415	2411.415	2411.415
0.5	2402.205	2412.567	2416.596	2411.991	2402.205
1.0	2400.478	2411.415	2414.869	2411.415	2400.478
1.5	2398.751	2409.113	2413.142	2409.113	2398.751
2.0	2395.873	2406.235	2410.264	2405.659	2395.297
2.5	2391.843	2402.781	2406.235	2402.205	2391.843
3.0	2387.814	2398.175	2401.629	2397.600	2387.814
3.5	2382.633	2392.419	2395.873	2392.419	2382.057
4.0	2376.301	2386.087	2389.541	2386.662	2376.876
4.5	2369.393	2379.179	2382.633	2379.754	2370.544
5.0	2361.334	2371.120	2375.149	2372.271	2363.061
5.5	2352.699	2362.485	2366.514	2364.787	2355.577
6.0	2344.064	2352.699	2357.304	2356.153	2347.518
6.5	2333.702	2342.913	2347.518	2346.367	2338.307
7.0	2322.765	2331.975	2336.580	2336.005	2328.521
7.5	2311.252	2320.462	2325.067	2325.643	2318.159
8.0	2299.739	2307.798	2312.979	2314.706	2307.798
8.5	2287.074	2295.133	2300.890	2302.617	2295.709
9.0	2273.834	2281.318	2287.650	2289.952	2284.196
9.5	2260.594	2268.078	2273.834	2277.288	2271.532
10.0	2246.778	2253.686	2259.443	2263.472	2258.291
10.5	2232.387	2238.719	2245.627	2249.657	2245.627
11.0	2217.420	2223.752	2230.084	2235.265	2232.963
11.5	2201.877	2207.634	2214.542	2219.723	2218.571
12.0	2186.335	2191.516	2197.848	2204.756	2204.180
12.5	2170.792	2174.822	2181.154	2189.213	2189.213
13.0	2153.522	2158.128	2164.460	2173.095	2174.246
13.5	2137.980	2140.858	2147.190	2156.976	2159.279
14.0	2121.286	2123.588	2129.345	2140.858	2143.736
14.5	2103.440	2105.743	2110.924	2123.588	2127.618
15.0	2085.595	2087.898	2091.927	2106.319	2111.500
15.5	2068.326	2069.477	2072.931	2089.049	2094.806
16.0	2050.480	2050.480	2053.359	2071.204	2078.112
16.5	2032.059	2032.059	2034.362	2052.783	2060.842
17.0	2013.638	2012.487	2013.638	2033.786	2042.997
17.5	1995.217	1992.915	1993.491	2015.365	2026.303
18.0	1976.221	1973.343	1972.767	1995.793	2008.458
18.5	1957.224	1953.195	1952.043	1976.221	1990.037
19.0	1938.228	1932.471	1930.744	1956.649	1971.616
19.5	1919.231	1912.323	1909.445	1936.501	1952.619
20.0	1900.235	1891.600	1888.146	1915.777	1934.198
20.5	1880.087	1870.301	1866.271	1895.629	1915.202
21.0	1860.514	1849.577	1843.820	1874.906	1896.781
21.5	1840.367	1828.853	1821.370	1854.182	1877.208
22.0	1820.794	1808.130	1799.495	1832.883	1857.060
22.5	1801.798	1786.831	1777.045	1812.159	1838.064
23.0	1781.650	1765.531	1755.170	1790.860	1818.492
23.5	1762.653	1744.808	1732.719	1770.137	1798.919
24.0	1744.232	1724.084	1710.844	1749.413	1779.347
24.5	1724.660	1702.785	1688.394	1728.114	1760.351
25.0	1705.663	1682.062	1665.943	1706.815	1741.354
25.5	1686.667	1661.338	1643.493	1685.516	1722.357
26.0	1667.670	1641.190	1621.618	1665.368	1704.512
26.5	1649.249	1621.042	1599.743	1644.644	1684.940

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27.0	1630.828	1600.894	1577.868	1624.496	1667.095
27.5	1612.407	1580.746	1555.993	1604.348	1648.674
28.0	1595.138	1561.174	1534.118	1584.200	1630.253
28.5	1576.717	1541.602	1512.819	1564.052	1612.407
29.0	1559.447	1522.030	1491.520	1543.905	1594.562
29.5	1541.602	1503.033	1469.645	1523.757	1576.141
30.0	1523.757	1483.461	1448.346	1504.184	1558.296
30.5	1506.487	1464.464	1427.047	1484.612	1540.451
31.0	1489.217	1445.468	1405.748	1465.040	1523.181
31.5	1471.948	1426.471	1385.024	1445.468	1505.336
32.0	1454.103	1408.050	1364.300	1426.471	1488.066
32.5	1436.833	1389.629	1344.153	1406.899	1470.797
33.0	1420.139	1370.633	1323.429	1387.327	1452.951
33.5	1402.869	1352.787	1303.281	1368.330	1435.682
34.0	1386.175	1333.791	1283.133	1349.333	1417.836
34.5	1369.481	1315.946	1263.561	1329.761	1401.142
35.0	1353.363	1297.525	1243.989	1310.765	1383.873
35.5	1336.669	1279.679	1224.417	1292.344	1366.027
36.0	1320.551	1261.834	1205.420	1273.923	1349.333
36.5	1304.432	1243.989	1186.423	1255.502	1332.639
37.0	1288.314	1226.719	1167.427	1237.081	1315.370
37.5	1272.196	1209.449	1149.006	1218.660	1298.100
38.0	1256.653	1192.756	1131.161	1201.390	1281.406
38.5	1241.110	1176.062	1113.315	1183.545	1264.712
39.0	1224.992	1158.792	1095.470	1166.275	1248.594
39.5	1210.025	1142.098	1078.200	1149.006	1232.476
40.0	1194.482	1125.980	1060.931	1131.736	1216.357
40.5	1178.364	1109.861	1044.237	1114.467	1200.239
41.0	1162.822	1093.743	1027.543	1097.773	1184.121
41.5	1147.854	1077.625	1011.424	1081.654	1168.578
42.0	1132.312	1062.658	994.730	1064.960	1153.035
42.5	1116.769	1046.539	978.612	1049.418	1137.493
43.0	1101.227	1031.572	963.069	1033.299	1121.950
43.5	1086.259	1016.030	947.527	1017.757	1106.407
44.0	1071.292	1001.063	931.984	1002.214	1090.865
44.5	1056.325	986.096	917.017	986.096	1075.322
45.0	1040.783	971.129	902.050	970.553	1060.355
45.5	1025.816	955.586	887.083	955.586	1044.812
46.0	1010.849	941.195	872.116	940.043	1029.270
46.5	995.306	926.228	857.725	924.501	1014.303
47.0	980.339	911.261	843.333	908.958	998.184
47.5	964.796	896.294	828.942	893.991	983.217
48.0	949.829	881.327	815.126	879.024	967.675
48.5	935.438	866.935	801.311	864.057	952.132
49.0	920.471	851.968	787.495	849.090	937.165
49.5	905.504	837.577	774.255	834.123	921.047
50.0	890.537	822.610	760.439	819.156	906.080
50.5	875.570	808.219	747.199	804.189	890.537
51.0	860.603	793.827	734.535	789.798	875.570
51.5	845.636	778.860	721.870	775.406	860.027
52.0	831.245	765.044	709.206	761.015	845.060
52.5	816.278	750.653	696.542	746.624	830.093
53.0	801.886	736.837	683.877	732.232	814.551
53.5	786.919	722.446	671.213	718.416	799.584
54.0	771.952	709.206	659.124	704.601	784.617
54.5	758.137	695.390	647.035	690.785	769.650

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55.0	743.745	681.575	634.947	676.969	755.258
55.5	729.354	668.335	623.434	663.729	741.443
56.0	714.963	655.094	611.345	650.489	727.051
56.5	700.571	641.854	599.256	636.674	712.084
57.0	686.755	629.190	587.743	623.434	698.269
57.5	672.364	615.950	575.654	610.769	683.877
58.0	658.548	602.710	563.968	598.105	669.486
58.5	644.733	590.046	552.455	584.865	655.094
59.0	630.341	577.381	540.885	572.315	640.703
59.5	616.526	564.371	529.314	559.306	626.887
60.0	602.710	551.419	517.513	546.296	612.496
60.5	589.470	538.409	505.942	533.459	598.680
61.0	576.806	525.515	494.545	520.679	584.865
61.5	563.393	512.850	482.859	507.842	571.337
62.0	550.613	500.646	471.231	495.350	557.982
62.5	537.719	488.615	459.430	482.744	544.972
63.0	524.824	476.757	447.283	470.597	531.444
63.5	511.757	464.611	435.079	458.912	518.031
64.0	498.632	452.579	423.279	446.650	504.561
64.5	485.737	440.721	411.650	434.734	491.033
65.0	472.612	428.862	399.965	423.221	477.678
65.5	459.027	417.177	388.567	411.650	464.726
66.0	446.017	405.548	376.996	400.598	451.716
66.5	432.777	393.978	365.425	389.430	438.188
67.0	420.400	382.522	354.200	378.320	425.811
67.5	407.966	371.182	343.205	367.613	413.262
68.0	395.590	360.129	332.843	356.906	401.001
68.5	383.155	349.192	323.000	346.026	388.797
69.0	371.067	338.312	313.616	335.491	377.111
69.5	359.496	327.662	304.348	325.129	365.540
70.0	347.580	317.128	295.080	314.998	353.624
70.5	336.009	306.478	285.870	304.924	341.939
71.0	324.439	295.944	276.602	295.080	330.598
71.5	312.926	285.640	267.276	285.122	319.431
72.0	301.528	275.508	258.123	275.278	307.975
72.5	290.360	265.377	249.028	265.607	296.750
73.0	279.192	255.418	240.048	255.993	285.582
73.5	268.255	245.401	231.068	246.265	274.645
74.0	257.433	235.558	222.145	236.536	264.053
74.5	246.668	225.599	213.107	226.865	253.000
75.0	236.076	215.755	204.069	217.309	242.178
75.5	225.426	205.912	195.262	207.754	231.298
76.0	214.949	196.010	186.339	198.083	220.533
76.5	204.703	186.224	177.532	188.296	209.768
77.0	194.341	176.553	168.667	178.453	199.119
77.5	184.037	166.825	160.032	169.070	188.469
78.0	173.848	157.557	151.512	159.917	178.050
78.5	163.716	148.519	142.935	150.764	167.861
79.0	153.642	139.423	134.473	142.014	157.384
79.5	143.798	130.328	126.068	133.206	147.310
80.0	134.070	121.521	117.606	124.399	137.294
80.5	124.514	112.943	109.374	115.706	127.450
81.0	115.304	104.424	101.200	107.129	117.952
81.5	106.554	96.077	93.314	98.725	108.684
82.0	97.861	87.960	85.312	90.493	99.761
82.5	89.860	80.246	77.368	82.549	91.241

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CANDELA TABULATION - (Cont.)

83.0	82.261	73.108	69.309	74.893	83.182
83.5	75.296	66.546	61.537	67.639	75.526
84.0	68.560	60.501	54.227	60.962	68.503
84.5	61.998	54.802	47.549	54.745	61.940
85.0	55.608	49.449	42.023	48.988	55.608
85.5	49.161	43.980	37.533	43.289	49.506
86.0	43.174	38.626	33.733	37.878	43.462
86.5	37.418	33.446	30.222	32.755	38.051
87.0	32.352	28.495	26.883	28.092	33.158
87.5	27.516	24.062	23.544	24.177	28.783
88.0	23.084	20.263	20.033	20.839	24.696
88.5	18.709	16.694	16.003	17.327	20.608
89.0	13.125	12.031	10.650	11.916	15.428
89.5	5.181	5.699	5.008	5.296	7.196
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-22-L50-950-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-L50-950-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-L50-950-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	809.86	N.A.	18.00
0-30	1589.06	N.A.	35.40
0-40	2405.84	N.A.	53.60
0-60	3771.8	N.A.	84.00
0-80	4432.49	N.A.	98.70
0-90	4491.86	N.A.	100.00
10-90	4269.24	N.A.	95.00
20-40	1595.98	N.A.	35.50
20-50	2347.58	N.A.	52.30
40-70	1794.8	N.A.	40.00
60-80	660.68	N.A.	14.70
70-80	231.84	N.A.	5.20
80-90	59.38	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	4491.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.62
10-20	587.24
20-30	779.20
30-40	816.78
40-50	751.60
50-60	614.36
60-70	428.84
70-80	231.84
80-90	59.38
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-L50-950-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-L50-950-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	16.0	17.5	16.4	17.9	18.2	UGR Viewed Endwise			
	3H	17.6	19.0	18.0	19.4	19.7	16.0	17.5	16.4	17.8
	4H	18.2	19.5	18.6	19.9	20.3	17.6	19.0	18.0	19.4
	6H	18.7	19.9	19.1	20.2	20.6	18.3	19.6	18.7	19.9
	8H	18.8	19.9	19.2	20.3	20.7	18.7	19.9	19.1	20.3
	12H	18.8	19.9	19.3	20.3	20.7	18.8	20.0	19.3	20.3

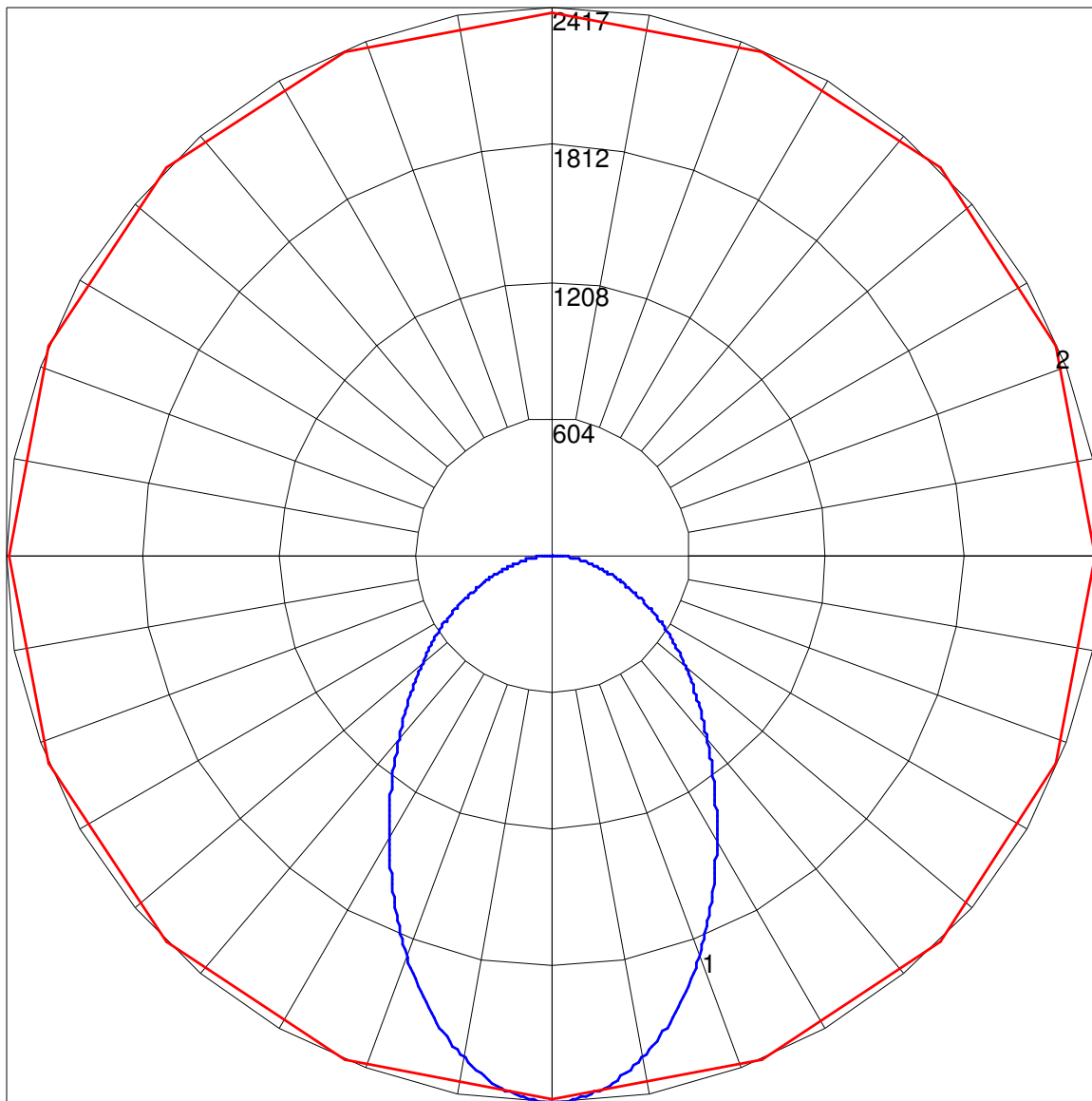
4H	2H	16.4	17.7	16.8	18.1	18.5	16.0	17.5	16.4	17.8
	3H	18.3	19.4	18.7	19.8	20.2	17.6	19.0	18.0	19.4
	4H	19.0	20.0	19.4	20.4	20.8	18.3	19.6	18.7	19.9
	6H	19.5	20.4	20.0	20.8	21.3	18.7	19.9	19.1	20.3
	8H	19.7	20.5	20.2	20.9	21.4	18.8	20.0	19.3	20.3
	12H	19.8	20.5	20.3	21.0	21.5	18.9	20.0	19.3	20.4

8H	4H	19.2	20.0	19.7	20.5	20.9	16.4	17.7	16.8	18.1
	6H	19.8	20.5	20.3	21.0	21.5	17.6	19.0	18.0	19.4
	8H	20.0	20.6	20.6	21.1	21.6	18.3	19.4	18.7	19.8
	12H	20.2	20.7	20.7	21.2	21.8	19.0	20.0	19.4	20.4

12H	4H	19.2	19.9	19.7	20.4	20.9	19.6	20.4	20.0	20.9
	6H	19.9	20.5	20.4	20.9	21.5	19.7	20.5	20.2	21.0
	8H	20.1	20.6	20.6	21.1	21.7	19.9	20.5	20.4	21.0

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 2416.596 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.)