

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L50-827-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-L50-827-DMA-DIM-UNV
[LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	4799	4159	4889
55	4228	3609	4293
65	3646	3086	3685
75	2974	2571	3051
85	2080	1572	2080

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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	2628.172	2628.172	2628.172	2628.172	2628.172
0.5	2618.133	2629.427	2633.818	2628.799	2618.133
1.0	2616.251	2628.172	2631.936	2628.172	2616.251
1.5	2614.369	2625.662	2630.054	2625.662	2614.369
2.0	2611.232	2622.525	2626.917	2621.898	2610.605
2.5	2606.840	2618.761	2622.525	2618.133	2606.840
3.0	2602.448	2613.742	2617.506	2613.114	2602.448
3.5	2596.802	2607.468	2611.232	2607.468	2596.174
4.0	2589.900	2600.566	2604.331	2601.194	2590.528
4.5	2582.372	2593.037	2596.802	2593.665	2583.626
5.0	2573.588	2584.254	2588.646	2585.509	2575.470
5.5	2564.177	2574.843	2579.235	2577.353	2567.314
6.0	2554.766	2564.177	2569.196	2567.942	2558.531
6.5	2543.473	2553.511	2558.531	2557.276	2548.492
7.0	2531.552	2541.591	2546.610	2545.983	2537.826
7.5	2519.004	2529.043	2534.062	2534.689	2526.533
8.0	2506.456	2515.240	2520.887	2522.769	2515.240
8.5	2492.654	2501.437	2507.711	2509.593	2502.065
9.0	2478.224	2486.380	2493.281	2495.791	2489.517
9.5	2463.793	2471.950	2478.224	2481.988	2475.714
10.0	2448.736	2456.265	2462.539	2466.930	2461.284
10.5	2433.051	2439.952	2447.481	2451.873	2447.481
11.0	2416.739	2423.640	2430.541	2436.188	2433.678
11.5	2399.799	2406.073	2413.602	2419.248	2417.993
12.0	2382.859	2388.506	2395.407	2402.936	2402.308
12.5	2365.919	2370.311	2377.212	2385.996	2385.996
13.0	2347.097	2352.116	2359.018	2368.429	2369.684
13.5	2330.158	2333.295	2340.196	2350.862	2353.371
14.0	2311.963	2314.473	2320.747	2333.295	2336.432
14.5	2292.514	2295.023	2300.670	2314.473	2318.864
15.0	2273.064	2275.574	2279.966	2295.651	2301.297
15.5	2254.242	2255.497	2259.262	2276.829	2283.103
16.0	2234.793	2234.793	2237.930	2257.379	2264.908
16.5	2214.716	2214.716	2217.226	2237.303	2246.086
17.0	2194.640	2193.385	2194.640	2216.598	2226.637
17.5	2174.563	2172.053	2172.681	2196.522	2208.442
18.0	2153.859	2150.722	2150.094	2175.190	2188.993
18.5	2133.154	2128.763	2127.508	2153.859	2168.916
19.0	2112.450	2106.176	2104.294	2132.527	2148.839
19.5	2091.746	2084.217	2081.080	2110.568	2128.135
20.0	2071.042	2061.631	2057.867	2087.982	2108.059
20.5	2049.083	2038.417	2034.026	2066.023	2087.354
21.0	2027.752	2015.831	2009.557	2043.436	2067.278
21.5	2005.793	1993.245	1985.088	2020.850	2045.946
22.0	1984.461	1970.658	1961.247	1997.636	2023.987
22.5	1963.757	1947.445	1936.779	1975.050	2003.283
23.0	1941.798	1924.231	1912.938	1951.836	1981.951
23.5	1921.094	1901.644	1888.469	1929.250	1960.620
24.0	1901.017	1879.058	1864.628	1906.664	1939.288
24.5	1879.686	1855.844	1840.159	1883.450	1918.584
25.0	1858.981	1833.258	1815.691	1860.236	1897.880
25.5	1838.277	1810.672	1791.222	1837.022	1877.176
26.0	1817.573	1788.713	1767.381	1815.063	1857.727
26.5	1797.496	1766.754	1743.540	1792.477	1836.395

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CANDELA TABULATION - (Cont.)

27.0	1777.420	1744.795	1719.699	1770.518	1816.946
27.5	1757.343	1722.836	1695.858	1748.559	1796.869
28.0	1738.521	1701.504	1672.017	1726.600	1776.792
28.5	1718.444	1680.173	1648.803	1704.641	1757.343
29.0	1699.622	1658.841	1625.589	1682.682	1737.893
29.5	1680.173	1638.137	1601.748	1660.723	1717.817
30.0	1660.723	1616.806	1578.534	1639.392	1698.367
30.5	1641.902	1596.101	1555.321	1618.060	1678.918
31.0	1623.080	1575.397	1532.107	1596.729	1660.096
31.5	1604.258	1554.693	1509.520	1575.397	1640.647
32.0	1584.808	1534.616	1486.934	1554.693	1621.825
32.5	1565.986	1514.540	1464.975	1533.362	1603.003
33.0	1547.792	1493.836	1442.389	1512.030	1583.553
33.5	1528.970	1474.386	1420.430	1491.326	1564.732
34.0	1510.775	1453.682	1398.471	1470.622	1545.282
34.5	1492.581	1434.233	1377.139	1449.290	1527.088
35.0	1475.014	1414.156	1355.808	1428.586	1508.266
35.5	1456.819	1394.707	1334.476	1408.509	1488.816
36.0	1439.252	1375.257	1313.772	1388.433	1470.622
36.5	1421.685	1355.808	1293.068	1368.356	1452.427
37.0	1404.118	1336.986	1272.364	1348.279	1433.605
37.5	1386.550	1318.164	1252.287	1328.202	1414.783
38.0	1369.611	1299.969	1232.838	1309.380	1396.589
38.5	1352.671	1281.775	1213.388	1289.931	1378.394
39.0	1335.104	1262.953	1193.939	1271.109	1360.827
39.5	1318.791	1244.758	1175.117	1252.287	1343.260
40.0	1301.852	1227.191	1156.295	1233.465	1325.693
40.5	1284.284	1209.624	1138.101	1214.643	1308.126
41.0	1267.345	1192.057	1119.906	1196.449	1290.558
41.5	1251.032	1174.490	1102.339	1178.882	1273.619
42.0	1234.093	1158.177	1084.144	1160.687	1256.679
42.5	1217.153	1140.610	1066.577	1143.747	1239.739
43.0	1200.213	1124.298	1049.637	1126.180	1222.799
43.5	1183.901	1107.358	1032.698	1109.240	1205.860
44.0	1167.588	1091.046	1015.758	1092.301	1188.920
44.5	1151.276	1074.733	999.446	1074.733	1171.980
45.0	1134.336	1058.421	983.133	1057.794	1155.668
45.5	1118.024	1041.481	966.821	1041.481	1138.728
46.0	1101.712	1025.796	950.509	1024.542	1121.788
46.5	1084.772	1009.484	934.824	1007.602	1105.476
47.0	1068.459	993.172	919.139	990.662	1087.909
47.5	1051.520	976.859	903.454	974.350	1071.596
48.0	1035.207	960.547	888.396	958.037	1054.657
48.5	1019.522	944.862	873.339	941.725	1037.717
49.0	1003.210	928.550	858.281	925.413	1021.405
49.5	986.898	912.865	843.851	909.100	1003.837
50.0	970.585	896.552	828.793	892.788	987.525
50.5	954.273	880.867	814.363	876.476	970.585
51.0	937.961	865.182	800.560	860.791	954.273
51.5	921.648	848.870	786.758	845.106	937.333
52.0	905.963	833.812	772.955	829.421	921.021
52.5	889.651	818.127	759.152	813.736	904.708
53.0	873.966	803.070	745.349	798.051	887.769
53.5	857.654	787.385	731.547	782.993	871.456
54.0	841.341	772.955	718.371	767.936	855.144
54.5	826.284	757.897	705.196	752.878	838.832

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55.0	810.599	742.840	692.020	737.820	823.147
55.5	794.914	728.410	679.472	723.390	808.089
56.0	779.229	713.979	666.297	708.960	792.404
56.5	763.544	699.549	653.122	693.903	776.092
57.0	748.486	685.746	640.574	679.472	761.034
57.5	732.801	671.316	627.398	665.670	745.349
58.0	717.744	656.886	614.662	651.867	729.664
58.5	702.686	643.083	602.114	637.437	713.979
59.0	687.001	629.281	589.504	623.759	698.294
59.5	671.944	615.101	576.893	609.580	683.237
60.0	656.886	600.985	564.031	595.401	667.552
60.5	642.456	586.806	551.420	581.410	652.494
61.0	628.653	572.752	538.998	567.482	637.437
61.5	614.035	558.949	526.262	553.491	622.693
62.0	600.107	545.648	513.588	539.876	608.137
62.5	586.053	532.536	500.727	526.136	593.958
63.0	571.999	519.611	487.489	512.898	579.214
63.5	557.757	506.373	474.188	500.162	564.596
64.0	543.452	493.261	461.326	486.798	549.915
64.5	529.399	480.336	448.653	473.811	535.171
65.0	515.094	467.412	435.916	461.263	520.615
65.5	500.287	454.676	423.494	448.653	506.499
66.0	486.108	442.002	410.883	436.607	492.320
66.5	471.678	429.391	398.272	424.435	477.576
67.0	458.189	416.906	386.038	412.326	464.087
67.5	444.637	404.546	374.055	400.657	450.409
68.0	431.148	392.500	362.762	388.987	437.046
68.5	417.596	380.580	352.033	377.129	423.745
69.0	404.421	368.722	341.807	365.648	411.009
69.5	391.810	357.115	331.706	354.355	398.398
70.0	378.823	345.634	321.604	343.312	385.411
70.5	366.212	334.027	311.566	332.333	372.675
71.0	353.602	322.546	301.465	321.604	360.315
71.5	341.054	311.315	291.301	310.750	348.143
72.0	328.631	300.273	281.325	300.022	335.658
72.5	316.460	289.231	271.413	289.482	323.424
73.0	304.288	278.377	261.625	279.004	311.252
73.5	292.368	267.460	251.838	268.401	299.332
74.0	280.573	256.731	242.113	257.798	287.788
74.5	268.840	245.877	232.263	247.258	275.742
75.0	257.296	235.149	222.413	236.843	263.946
75.5	245.689	224.420	212.814	226.428	252.089
76.0	234.271	213.629	203.089	215.888	240.356
76.5	223.103	202.963	193.490	205.222	228.624
77.0	211.810	192.423	183.828	194.493	217.017
77.5	200.579	181.820	174.417	184.267	205.410
78.0	189.474	171.719	165.131	174.291	194.054
78.5	178.432	161.869	155.783	164.316	182.949
79.0	167.453	151.956	146.560	154.779	171.531
79.5	156.724	142.043	137.400	145.180	160.551
80.0	146.121	132.444	128.177	135.581	149.635
80.5	135.706	123.096	119.206	126.107	138.906
81.0	125.668	113.810	110.297	116.759	128.554
81.5	116.131	104.713	101.701	107.599	118.453
82.0	106.658	95.866	92.980	98.627	108.728
82.5	97.937	87.459	84.322	89.969	99.443

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CANDELA TABULATION - (Cont.)

83.0	89.655	79.680	75.539	81.625	90.659
83.5	82.064	72.527	67.069	73.719	82.315
84.0	74.723	65.940	59.101	66.441	74.660
84.5	67.571	59.728	51.823	59.666	67.508
85.0	60.607	53.894	45.800	53.392	60.607
85.5	53.580	47.933	40.906	47.180	53.956
86.0	47.055	42.098	36.766	41.283	47.369
86.5	40.781	36.452	32.938	35.699	41.471
87.0	35.260	31.056	29.300	30.617	36.138
87.5	29.990	26.225	25.661	26.351	31.370
88.0	25.159	22.084	21.833	22.712	26.915
88.5	20.390	18.195	17.442	18.885	22.461
89.0	14.305	13.113	11.607	12.987	16.814
89.5	5.647	6.211	5.458	5.772	7.842
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-L50-827-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-L50-827-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-L50-827-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	882.66	N.A.	18.00
0-30	1731.9	N.A.	35.40
0-40	2622.1	N.A.	53.60
0-60	4110.84	N.A.	84.00
0-80	4830.91	N.A.	98.70
0-90	4895.63	N.A.	100.00
10-90	4652.99	N.A.	95.00
20-40	1739.44	N.A.	35.50
20-50	2558.6	N.A.	52.30
40-70	1956.13	N.A.	40.00
60-80	720.07	N.A.	14.70
70-80	252.68	N.A.	5.20
80-90	64.72	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	4895.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.63
10-20	640.03
20-30	849.24
30-40	890.20
40-50	819.16
50-60	669.58
60-70	467.39
70-80	252.68
80-90	64.72
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-L50-827-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-L50-827-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

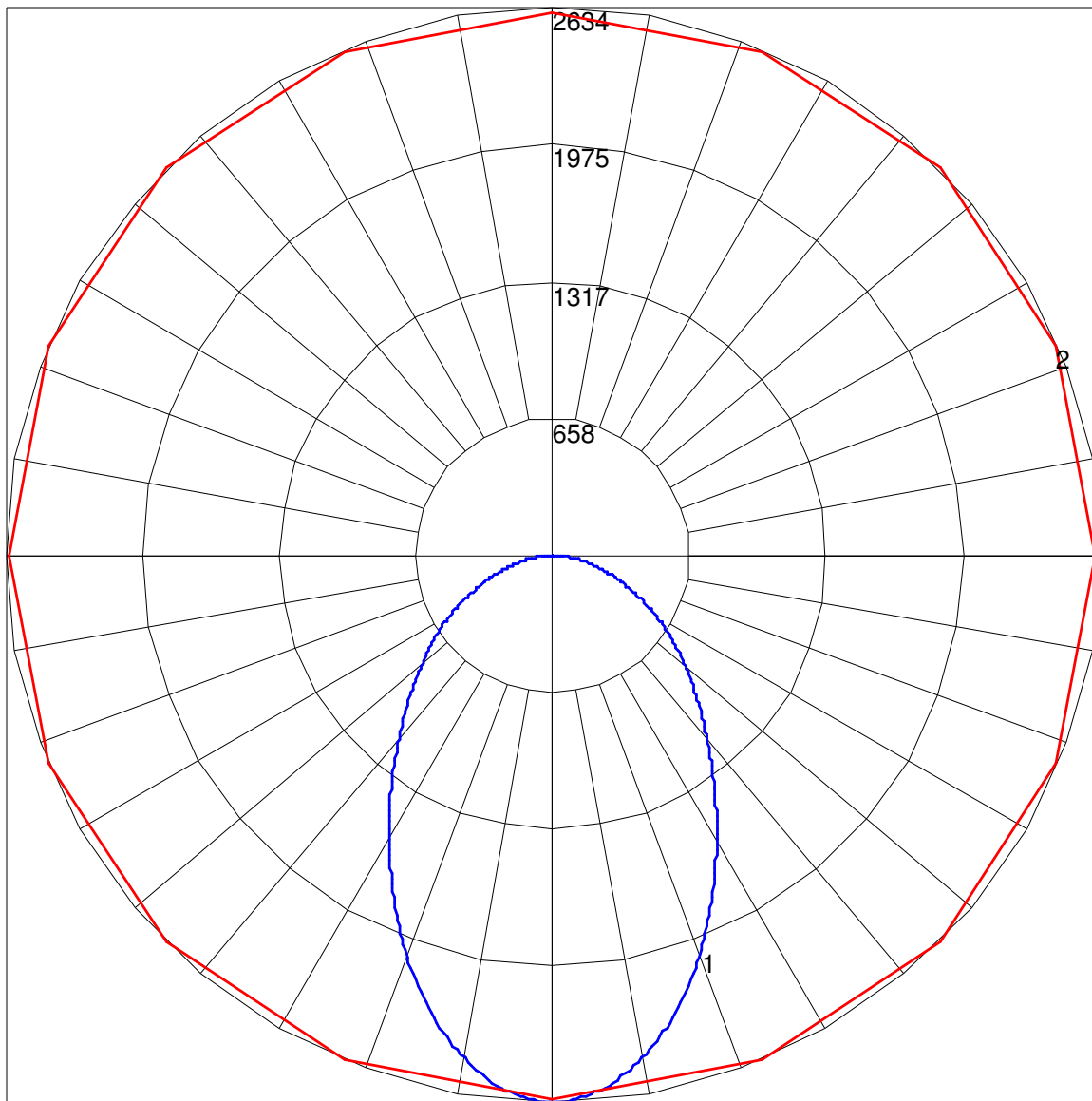
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.3	17.8	16.7	18.2	18.5	16.3	17.8	16.7	18.1	18.4
	3H	17.9	19.3	18.3	19.7	20.0	17.9	19.3	18.3	19.6	20.0
	4H	18.5	19.8	18.9	20.2	20.6	18.6	19.9	19.0	20.2	20.6
	6H	19.0	20.2	19.4	20.5	20.9	19.0	20.2	19.4	20.6	20.9
	8H	19.1	20.2	19.5	20.6	21.0	19.1	20.3	19.6	20.6	21.0
	12H	19.1	20.2	19.6	20.6	21.0	19.2	20.3	19.6	20.7	21.1
4H	2H	16.7	18.0	17.1	18.4	18.8	16.7	18.0	17.1	18.4	18.7
	3H	18.6	19.7	19.0	20.1	20.5	18.6	19.7	19.0	20.1	20.5
	4H	19.3	20.3	19.7	20.7	21.1	19.3	20.3	19.7	20.7	21.1
	6H	19.8	20.7	20.3	21.1	21.6	19.9	20.7	20.3	21.2	21.6
	8H	20.0	20.8	20.5	21.2	21.7	20.0	20.8	20.5	21.3	21.7
	12H	20.1	20.8	20.6	21.3	21.8	20.2	20.9	20.6	21.3	21.8
8H	4H	19.5	20.3	20.0	20.8	21.2	19.5	20.3	20.0	20.8	21.2
	6H	20.1	20.8	20.6	21.3	21.8	20.2	20.8	20.7	21.3	21.8
	8H	20.3	20.9	20.9	21.4	21.9	20.4	21.0	20.9	21.5	22.0
	12H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.1
12H	4H	19.5	20.2	20.0	20.7	21.2	19.6	20.3	20.0	20.7	21.2
	6H	20.2	20.8	20.7	21.2	21.8	20.2	20.8	20.7	21.3	21.8
	8H	20.4	20.9	20.9	21.4	22.0	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 2633.818 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.)