

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L50-827-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-L50-827-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	4872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	2601	2008	2135
55	2308	1739	1878
65	1993	1492	1615
75	1610	1237	1345
85	1186	888	1047

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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	2610.642	2610.642	2610.642	2610.642	2610.642
0.5	2580.293	2608.164	2616.836	2614.978	2621.171
1.0	2579.054	2606.926	2615.597	2613.739	2619.313
1.5	2577.815	2605.068	2613.739	2610.642	2616.836
2.0	2575.338	2602.590	2610.642	2606.926	2612.500
2.5	2572.241	2598.874	2606.306	2601.971	2607.545
3.0	2569.144	2595.158	2601.351	2596.396	2601.971
3.5	2564.189	2590.203	2595.777	2589.583	2595.158
4.0	2559.234	2584.628	2588.964	2582.151	2587.106
4.5	2553.660	2578.435	2581.532	2573.480	2577.815
5.0	2547.466	2571.622	2573.480	2564.189	2568.525
5.5	2540.653	2563.570	2564.189	2553.660	2557.996
6.0	2533.221	2554.899	2553.660	2543.131	2545.608
6.5	2524.550	2546.847	2542.511	2530.743	2533.840
7.0	2515.878	2537.556	2531.363	2518.356	2520.214
7.5	2507.207	2527.027	2518.975	2505.349	2505.969
8.0	2497.297	2515.878	2506.588	2491.104	2491.723
8.5	2486.768	2504.730	2492.342	2475.619	2476.239
9.0	2476.239	2492.962	2478.716	2460.135	2460.135
9.5	2465.710	2480.574	2464.471	2444.651	2444.032
10.0	2453.942	2467.568	2448.987	2427.928	2426.689
10.5	2442.173	2454.561	2433.502	2410.586	2408.108
11.0	2429.786	2440.315	2416.779	2392.624	2390.146
11.5	2417.399	2426.070	2400.056	2374.043	2371.565
12.0	2404.392	2411.205	2382.714	2354.842	2352.365
12.5	2390.766	2395.721	2364.752	2335.023	2333.164
13.0	2377.140	2380.237	2346.791	2315.203	2313.345
13.5	2362.894	2364.133	2328.210	2295.383	2294.144
14.0	2348.649	2347.410	2309.009	2274.324	2273.086
14.5	2333.784	2331.306	2289.189	2253.266	2251.408
15.0	2318.919	2314.583	2269.369	2230.969	2230.349
15.5	2304.054	2296.622	2248.930	2209.291	2208.671
16.0	2288.570	2279.279	2228.491	2187.613	2186.374
16.5	2273.086	2261.318	2206.813	2164.696	2164.077
17.0	2257.601	2242.737	2185.135	2142.399	2141.160
17.5	2241.498	2223.536	2163.457	2119.482	2118.243
18.0	2224.775	2204.336	2141.160	2095.946	2094.707
18.5	2207.432	2185.135	2118.243	2072.410	2071.171
19.0	2190.710	2165.935	2095.946	2048.874	2047.635
19.5	2173.367	2146.115	2073.029	2025.338	2024.719
20.0	2156.025	2126.295	2049.493	2000.563	2000.563
20.5	2138.682	2105.856	2025.957	1977.027	1977.027
21.0	2120.721	2085.417	2001.802	1952.252	1953.491
21.5	2102.140	2064.978	1977.646	1928.097	1929.336
22.0	2083.559	2044.538	1953.491	1903.941	1905.800
22.5	2065.597	2024.099	1929.336	1879.167	1881.644
23.0	2047.635	2003.041	1905.180	1855.011	1858.108
23.5	2029.673	1981.363	1880.405	1830.237	1834.572
24.0	2011.712	1960.923	1856.250	1805.462	1811.036
24.5	1993.131	1939.246	1832.095	1781.926	1788.119
25.0	1974.550	1918.187	1807.939	1757.770	1765.203
25.5	1956.588	1897.128	1783.164	1734.234	1742.286
26.0	1938.007	1876.070	1759.628	1710.079	1719.989
26.5	1920.045	1854.392	1734.854	1685.923	1697.691

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27.0	1901.464	1833.333	1710.698	1662.387	1676.014
27.5	1883.502	1812.275	1686.543	1639.471	1653.716
28.0	1865.541	1791.216	1663.007	1616.554	1632.038
28.5	1846.960	1770.158	1639.471	1593.637	1611.599
29.0	1828.378	1749.099	1615.935	1571.340	1589.921
29.5	1810.417	1728.660	1593.018	1549.043	1568.863
30.0	1792.455	1707.601	1569.482	1526.746	1549.043
30.5	1775.113	1686.543	1546.565	1505.068	1528.604
31.0	1757.770	1666.104	1523.029	1483.390	1508.784
31.5	1739.189	1645.664	1500.732	1462.331	1488.964
32.0	1721.228	1624.606	1477.815	1441.273	1469.144
32.5	1703.266	1604.167	1454.899	1420.214	1449.944
33.0	1684.685	1584.347	1432.601	1399.155	1430.743
33.5	1667.342	1563.908	1410.304	1378.716	1412.162
34.0	1648.761	1543.469	1388.007	1358.896	1393.581
34.5	1630.800	1523.649	1366.948	1338.457	1375.000
35.0	1612.838	1503.210	1345.270	1319.257	1357.038
35.5	1595.496	1482.770	1323.592	1299.437	1339.077
36.0	1577.534	1462.950	1301.914	1280.237	1321.115
36.5	1559.572	1443.131	1281.475	1261.036	1303.773
37.0	1541.610	1423.311	1261.036	1241.836	1286.430
37.5	1523.649	1404.110	1240.597	1223.255	1269.088
38.0	1506.306	1384.910	1220.777	1205.293	1251.746
38.5	1488.345	1365.090	1200.957	1187.331	1235.023
39.0	1469.764	1345.270	1181.137	1169.989	1218.300
39.5	1452.421	1326.689	1161.937	1152.027	1202.196
40.0	1434.460	1307.489	1143.356	1135.304	1186.092
40.5	1417.117	1288.908	1124.775	1117.962	1169.989
41.0	1398.536	1269.707	1106.813	1101.239	1153.885
41.5	1381.194	1251.746	1088.851	1085.135	1138.401
42.0	1363.232	1233.164	1070.890	1069.032	1122.297
42.5	1345.890	1215.203	1053.547	1052.928	1106.813
43.0	1327.928	1196.622	1036.205	1036.205	1091.948
43.5	1309.966	1178.660	1019.482	1020.721	1076.464
44.0	1292.005	1160.698	1002.759	1005.237	1061.599
44.5	1274.662	1142.737	986.655	989.752	1046.734
45.0	1256.700	1125.394	969.932	974.268	1031.250
45.5	1238.739	1107.432	953.829	959.403	1016.385
46.0	1221.396	1089.471	938.345	943.919	1001.520
46.5	1204.054	1072.128	922.860	929.054	986.655
47.0	1186.712	1054.786	907.376	914.189	971.171
47.5	1168.750	1037.444	891.892	899.944	956.306
48.0	1150.788	1020.101	877.027	885.079	941.441
48.5	1132.827	1002.759	861.543	870.214	926.577
49.0	1116.104	986.036	847.297	855.349	911.712
49.5	1097.523	968.694	832.432	841.104	897.466
50.0	1080.180	951.971	817.568	826.239	882.601
50.5	1062.838	935.248	803.322	811.993	868.356
51.0	1044.876	918.525	789.077	797.748	853.491
51.5	1027.534	901.182	775.450	782.883	838.007
52.0	1008.953	884.459	761.205	768.637	823.761
52.5	991.610	867.737	747.579	754.392	808.896
53.0	974.268	851.633	734.572	740.766	794.032
53.5	956.926	834.910	720.946	726.520	779.167
54.0	938.964	818.806	707.320	712.275	764.302
54.5	921.622	803.322	694.313	698.649	749.437

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55.0	904.279	787.218	681.306	685.023	735.811
55.5	886.937	771.115	668.300	671.396	721.565
56.0	869.595	755.631	655.293	657.770	706.700
56.5	852.872	740.146	642.286	644.764	692.455
57.0	836.149	724.662	629.899	631.137	678.209
57.5	818.806	709.178	617.449	617.759	663.964
58.0	802.083	694.313	604.814	604.628	650.338
58.5	785.360	678.829	592.489	591.312	636.712
59.0	768.637	663.964	579.916	578.243	622.466
59.5	752.534	649.099	567.590	565.360	608.468
60.0	735.811	634.234	555.141	552.477	595.028
60.5	719.707	619.369	542.691	539.718	581.898
61.0	703.604	604.752	530.490	526.836	568.457
61.5	686.881	590.321	517.793	514.200	555.327
62.0	671.396	575.952	505.529	501.565	542.506
62.5	655.293	561.892	493.018	489.116	529.375
63.0	639.189	547.770	480.631	476.852	516.121
63.5	624.324	534.082	468.305	464.713	503.733
64.0	608.221	520.146	455.608	452.573	490.974
64.5	592.117	506.396	443.159	440.619	478.463
65.0	575.580	493.018	430.648	429.037	466.199
65.5	559.848	479.330	418.384	417.641	453.936
66.0	544.240	465.642	406.306	406.121	440.619
66.5	529.065	452.325	394.352	395.096	428.356
67.0	513.891	438.823	382.584	384.195	416.278
67.5	498.407	425.631	370.940	373.232	404.386
68.0	482.303	412.624	359.730	362.455	392.371
68.5	466.571	400.051	348.891	351.678	380.912
69.0	451.644	387.230	338.176	340.963	369.082
69.5	437.089	374.780	327.646	330.434	357.376
70.0	422.348	362.641	317.241	320.090	345.794
70.5	408.102	350.377	306.959	309.932	334.645
71.0	393.485	338.300	296.864	299.775	323.373
71.5	379.550	326.408	286.892	289.741	312.410
72.0	365.366	314.702	276.920	279.769	301.509
72.5	351.554	302.872	266.948	269.921	290.670
73.0	337.742	291.227	257.224	260.011	280.017
73.5	324.302	279.645	247.438	250.225	269.302
74.0	311.047	268.125	237.714	240.377	258.649
74.5	297.731	256.729	228.114	230.715	248.181
75.0	284.662	245.394	218.761	221.053	237.776
75.5	271.593	234.184	209.409	211.639	227.247
76.0	258.773	223.035	199.871	202.100	217.089
76.5	246.137	211.886	190.642	192.686	206.746
77.0	233.812	200.614	181.537	183.333	196.588
77.5	221.486	189.775	172.309	174.291	186.492
78.0	209.285	179.431	163.142	165.186	176.520
78.5	197.207	169.026	154.223	156.267	166.610
79.0	185.501	158.930	145.304	147.410	156.948
79.5	174.291	149.020	136.509	138.553	147.348
80.0	163.142	139.544	127.714	129.696	137.810
80.5	152.241	130.130	118.981	120.963	129.015
81.0	141.588	120.901	110.372	112.663	120.529
81.5	131.244	112.106	101.824	104.921	112.725
82.0	121.334	103.497	93.587	97.489	105.045
82.5	111.858	95.259	85.411	90.552	97.427

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CANDELA TABULATION - (Cont.)

83.0	102.877	87.207	77.731	83.925	89.994
83.5	94.206	79.527	70.670	77.235	82.810
84.0	86.154	72.218	64.229	70.608	75.749
84.5	78.164	65.096	58.407	64.105	68.936
85.0	70.608	58.283	52.894	57.725	62.370
85.5	63.361	51.779	47.753	51.593	55.991
86.0	56.177	45.462	42.860	45.833	50.293
86.5	49.178	39.578	38.215	40.693	45.152
87.0	42.179	34.313	33.880	36.295	40.383
87.5	35.180	29.544	30.039	32.579	36.233
88.0	28.305	25.023	26.447	29.172	32.517
88.5	22.173	20.687	22.731	25.766	28.925
89.0	16.537	15.980	18.209	20.873	23.102
89.5	10.220	10.158	12.202	15.670	18.209
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-L50-827-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-L50-827-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-L50-827-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	877.71	N.A.	18.00
0-30	1722.66	N.A.	35.40
0-40	2606.91	N.A.	53.50
0-60	4086.21	N.A.	83.90
0-80	4802.26	N.A.	98.60
0-90	4871.64	N.A.	100.00
10-90	4630.52	N.A.	95.10
20-40	1729.2	N.A.	35.50
20-50	2542.82	N.A.	52.20
40-70	1944.29	N.A.	39.90
60-80	716.05	N.A.	14.70
70-80	251.05	N.A.	5.20
80-90	69.38	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	4871.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.12
10-20	636.59
20-30	844.95
30-40	884.26
40-50	813.61
50-60	665.68
60-70	465.00
70-80	251.05
80-90	69.38
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-24-L50-827-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	68	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-L50-827-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

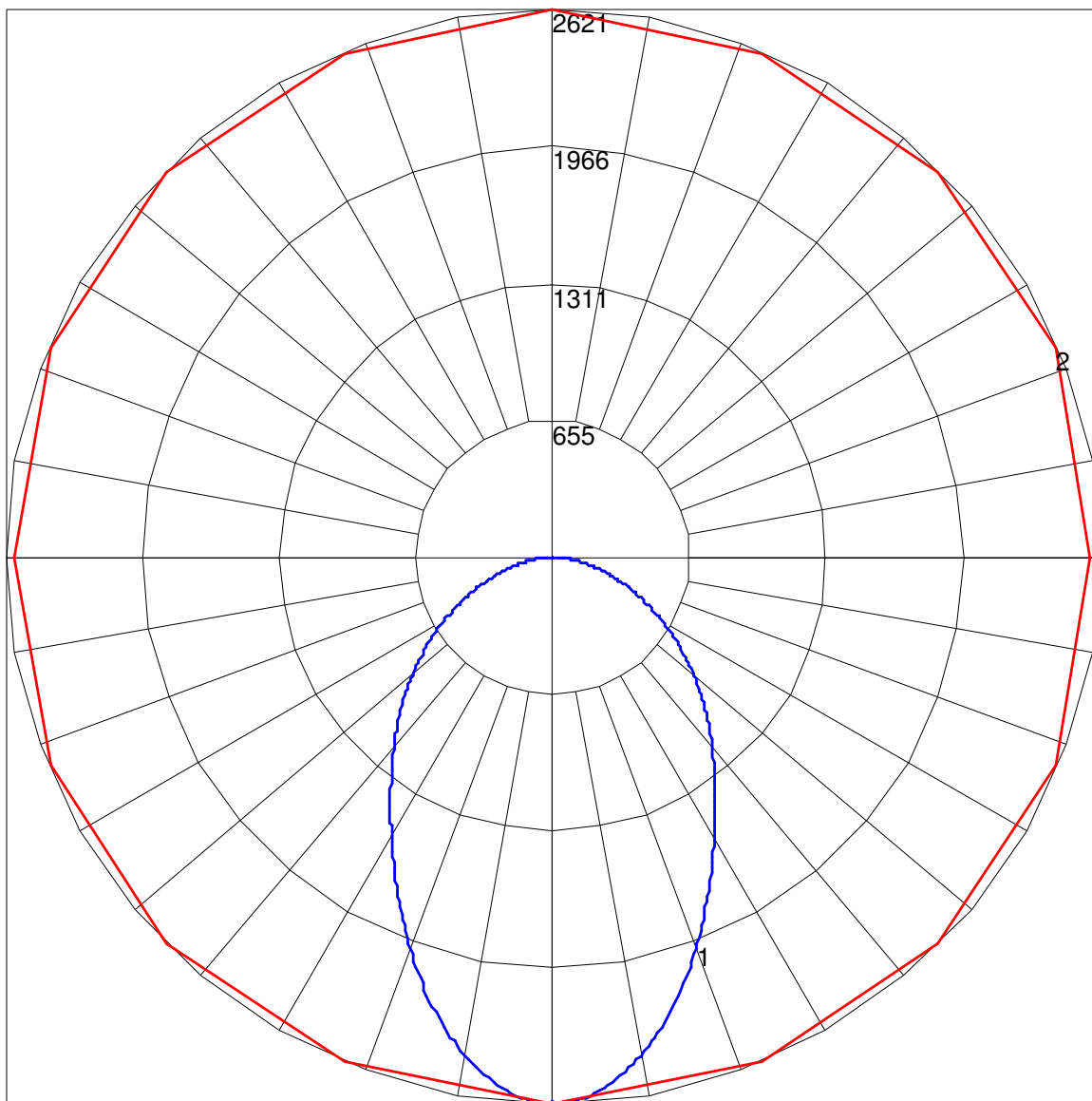
X=2H	Y=2H	14.3	15.9	14.7	16.2	16.5	13.3	14.8	13.6	15.1	15.4
	3H	16.0	17.4	16.4	17.7	18.1	14.9	16.3	15.3	16.6	17.0
	4H	16.6	17.9	17.0	18.3	18.6	15.5	16.8	15.9	17.2	17.5
	6H	17.0	18.2	17.5	18.6	19.0	15.9	17.1	16.4	17.5	17.9
	8H	17.2	18.3	17.6	18.7	19.1	16.1	17.2	16.5	17.6	18.0
	12H	17.3	18.3	17.7	18.7	19.2	16.2	17.3	16.6	17.7	18.1

UGR Viewed Endwise

4H	2H	14.7	16.0	15.1	16.3	16.7	13.8	15.1	14.2	15.4	15.8
	3H	16.6	17.6	17.0	18.0	18.4	15.6	16.7	16.0	17.1	17.5
	4H	17.3	18.3	17.7	18.7	19.1	16.3	17.3	16.8	17.7	18.2
	6H	17.8	18.7	18.3	19.1	19.6	16.9	17.8	17.4	18.2	18.7
	8H	18.0	18.8	18.5	19.2	19.7	17.1	17.9	17.5	18.3	18.8
	12H	18.1	18.8	18.6	19.3	19.8	17.2	17.9	17.7	18.4	18.9
8H	4H	17.5	18.2	17.9	18.7	19.2	16.6	17.4	17.1	17.8	18.3
	6H	18.1	18.7	18.6	19.2	19.7	17.3	17.9	17.8	18.4	18.9
	8H	18.3	18.9	18.8	19.4	19.9	17.5	18.1	18.0	18.6	19.1
	12H	18.5	19.0	19.0	19.5	20.1	17.7	18.2	18.2	18.7	19.3
12H	4H	17.5	18.2	17.9	18.6	19.1	16.6	17.3	17.1	17.8	18.3
	6H	18.1	18.7	18.6	19.2	19.7	17.3	17.9	17.8	18.4	18.9
	8H	18.4	18.9	18.9	19.4	20.0	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 2621.171 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.)