



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-827-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15746385.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-05-02
 [TESTDATE] 3/20/2025
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] FRM-22-L25-827-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	2393
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	25.4
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	2346	2033	2390
55	2067	1764	2098
65	1782	1508	1801
75	1454	1257	1491
85	1017	768	1017

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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	1284.664	1284.664	1284.664	1284.664	1284.664
0.5	1279.757	1285.277	1287.424	1284.971	1279.757
1.0	1278.837	1284.664	1286.504	1284.664	1278.837
1.5	1277.917	1283.437	1285.584	1283.437	1277.917
2.0	1276.384	1281.904	1284.051	1281.597	1276.077
2.5	1274.237	1280.064	1281.904	1279.757	1274.237
3.0	1272.090	1277.611	1279.451	1277.304	1272.090
3.5	1269.330	1274.544	1276.384	1274.544	1269.024
4.0	1265.957	1271.170	1273.010	1271.477	1266.264
4.5	1262.277	1267.490	1269.330	1267.797	1262.890
5.0	1257.983	1263.197	1265.344	1263.810	1258.903
5.5	1253.383	1258.597	1260.743	1259.823	1254.917
6.0	1248.783	1253.383	1255.837	1255.223	1250.623
6.5	1243.263	1248.170	1250.623	1250.010	1245.716
7.0	1237.436	1242.343	1244.796	1244.490	1240.503
7.5	1231.303	1236.209	1238.663	1238.969	1234.983
8.0	1225.169	1229.463	1232.223	1233.143	1229.463
8.5	1218.422	1222.716	1225.782	1226.702	1223.022
9.0	1211.369	1215.355	1218.729	1219.956	1216.889
9.5	1204.315	1208.302	1211.369	1213.209	1210.142
10.0	1196.955	1200.635	1203.702	1205.849	1203.088
10.5	1189.288	1192.661	1196.342	1198.488	1196.342
11.0	1181.314	1184.688	1188.061	1190.821	1189.595
11.5	1173.034	1176.101	1179.781	1182.541	1181.928
12.0	1164.754	1167.514	1170.887	1174.568	1174.261
12.5	1156.474	1158.620	1161.994	1166.287	1166.287
13.0	1147.273	1149.727	1153.100	1157.700	1158.314
13.5	1138.993	1140.527	1143.900	1149.114	1150.340
14.0	1130.100	1131.326	1134.393	1140.527	1142.060
14.5	1120.593	1121.819	1124.579	1131.326	1133.473
15.0	1111.086	1112.312	1114.459	1122.126	1124.886
15.5	1101.885	1102.499	1104.339	1112.926	1115.993
16.0	1092.379	1092.379	1093.912	1103.419	1107.099
16.5	1082.565	1082.565	1083.792	1093.605	1097.899
17.0	1072.751	1072.138	1072.751	1083.485	1088.392
17.5	1062.938	1061.711	1062.018	1073.671	1079.498
18.0	1052.817	1051.284	1050.977	1063.244	1069.991
18.5	1042.697	1040.550	1039.937	1052.817	1060.178
19.0	1032.577	1029.510	1028.590	1042.390	1050.364
19.5	1022.456	1018.776	1017.243	1031.657	1040.244
20.0	1012.336	1007.736	1005.896	1020.616	1030.430
20.5	1001.603	996.389	994.242	1009.883	1020.310
21.0	991.176	985.349	982.282	998.842	1010.496
21.5	980.442	974.308	970.322	987.802	1000.069
22.0	970.015	963.268	958.668	976.455	989.336
22.5	959.895	951.921	946.708	965.415	979.215
23.0	949.161	940.574	935.054	954.068	968.788
23.5	939.041	929.534	923.094	943.028	958.361
24.0	929.227	918.493	911.440	931.987	947.934
24.5	918.800	907.146	899.480	920.640	937.814
25.0	908.680	896.106	887.519	909.293	927.694
25.5	898.560	885.066	875.559	897.946	917.573
26.0	888.439	874.332	863.905	887.213	908.066
26.5	878.626	863.599	852.252	876.172	897.640

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CANDELA TABULATION - (Cont.)

27.0	868.812	852.865	840.598	865.439	888.133
27.5	858.998	842.131	828.944	854.705	878.319
28.0	849.798	831.704	817.291	843.971	868.505
28.5	839.985	821.277	805.944	833.238	858.998
29.0	830.784	810.850	794.597	822.504	849.491
29.5	821.277	800.730	782.943	811.770	839.678
30.0	811.770	790.303	771.596	801.343	830.171
30.5	802.570	780.183	760.249	790.916	820.664
31.0	793.370	770.062	748.902	780.489	811.464
31.5	784.170	759.942	737.862	770.062	801.957
32.0	774.663	750.129	726.821	759.942	792.756
32.5	765.462	740.315	716.088	749.515	783.556
33.0	756.569	730.195	705.047	739.088	774.049
33.5	747.368	720.688	694.314	728.968	764.849
34.0	738.475	710.567	683.580	718.848	755.342
34.5	729.581	701.060	673.153	708.421	746.448
35.0	720.994	691.247	662.726	698.300	737.248
35.5	712.101	681.740	652.299	688.487	727.741
36.0	703.514	672.233	642.179	678.673	718.848
36.5	694.927	662.726	632.058	668.860	709.954
37.0	686.340	653.526	621.938	659.046	700.754
37.5	677.753	644.325	612.125	649.232	691.554
38.0	669.473	635.432	602.618	640.032	682.660
38.5	661.193	626.538	593.111	630.525	673.766
39.0	652.606	617.338	583.604	621.325	665.179
39.5	644.632	608.444	574.403	612.125	656.592
40.0	636.352	599.857	565.203	602.924	648.006
40.5	627.765	591.271	556.310	593.724	639.419
41.0	619.485	582.684	547.416	584.830	630.832
41.5	611.511	574.097	538.829	576.243	622.551
42.0	603.231	566.123	529.935	567.350	614.271
42.5	594.951	557.536	521.349	559.070	605.991
43.0	586.670	549.563	513.068	550.483	597.711
43.5	578.697	541.282	504.788	542.202	589.431
44.0	570.723	533.309	496.508	533.922	581.150
44.5	562.750	525.335	488.534	525.335	572.870
45.0	554.470	517.362	480.561	517.055	564.896
45.5	546.496	509.082	472.587	509.082	556.616
46.0	538.522	501.415	464.614	500.801	548.336
46.5	530.242	493.441	456.947	492.521	540.362
47.0	522.269	485.467	449.280	484.241	531.776
47.5	513.988	477.494	441.613	476.267	523.802
48.0	506.015	469.520	434.253	468.294	515.522
48.5	498.348	461.853	426.892	460.320	507.241
49.0	490.374	453.880	419.532	452.347	499.268
49.5	482.401	446.213	412.479	444.373	490.681
50.0	474.427	438.239	405.118	436.399	482.707
50.5	466.454	430.573	398.065	428.426	474.427
51.0	458.480	422.906	391.318	420.759	466.454
51.5	450.506	414.932	384.571	413.092	458.173
52.0	442.840	407.572	377.824	405.425	450.200
52.5	434.866	399.905	371.077	397.758	442.226
53.0	427.199	392.545	364.331	390.091	433.946
53.5	419.226	384.878	357.584	382.731	425.972
54.0	411.252	377.824	351.144	375.371	417.999
54.5	403.892	370.464	344.703	368.011	410.025

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CANDELA TABULATION - (Cont.)

55.0	396.225	363.104	338.263	360.651	402.358
55.5	388.558	356.050	332.130	353.597	394.998
56.0	380.891	348.997	325.690	346.543	387.331
56.5	373.224	341.943	319.249	339.183	379.358
57.0	365.864	335.196	313.116	332.130	371.998
57.5	358.197	328.143	306.676	325.383	364.331
58.0	350.837	321.089	300.450	318.636	356.664
58.5	343.477	314.343	294.317	311.582	348.997
59.0	335.810	307.596	288.152	304.897	341.330
59.5	328.450	300.665	281.988	297.966	333.970
60.0	321.089	293.765	275.701	291.035	326.303
60.5	314.036	286.834	269.537	284.196	318.943
61.0	307.289	279.964	263.465	277.388	311.582
61.5	300.143	273.217	257.240	270.549	304.376
62.0	293.335	266.716	251.045	263.894	297.261
62.5	286.466	260.306	244.758	257.178	290.330
63.0	279.596	253.989	238.287	250.707	283.123
63.5	272.635	247.518	231.785	244.482	275.977
64.0	265.642	241.108	225.499	237.950	268.801
64.5	258.773	234.791	219.304	231.601	261.594
65.0	251.781	228.473	213.078	225.468	254.479
65.5	244.543	222.248	207.006	219.304	247.579
66.0	237.612	216.053	200.842	213.416	240.648
66.5	230.559	209.889	194.678	207.466	233.441
67.0	223.965	203.786	188.698	201.547	226.848
67.5	217.341	197.744	182.840	195.843	220.162
68.0	210.747	191.856	177.320	190.139	213.630
68.5	204.123	186.029	172.076	184.343	207.129
69.0	197.683	180.233	167.077	178.731	200.903
69.5	191.519	174.560	162.139	173.210	194.739
70.0	185.171	168.948	157.202	167.813	188.391
70.5	179.007	163.274	152.295	162.446	182.165
71.0	172.842	157.662	147.358	157.202	176.124
71.5	166.709	152.172	142.389	151.896	170.174
72.0	160.637	146.775	137.513	146.652	164.071
72.5	154.687	141.377	132.668	141.500	158.091
73.0	148.738	136.072	127.884	136.379	152.142
73.5	142.911	130.736	123.100	131.196	146.315
74.0	137.145	125.492	118.346	126.013	140.672
74.5	131.411	120.186	113.531	120.861	134.784
75.0	125.768	114.942	108.717	115.770	129.018
75.5	120.094	109.698	104.024	110.679	123.222
76.0	114.513	104.423	99.271	105.527	117.487
76.5	109.054	99.210	94.579	100.314	111.753
77.0	103.534	94.057	89.856	95.069	106.079
77.5	98.044	88.875	85.256	90.071	100.406
78.0	92.616	83.937	80.717	85.194	94.855
78.5	87.219	79.122	76.148	80.318	89.427
79.0	81.852	74.277	71.639	75.657	83.845
79.5	76.608	69.431	67.162	70.965	78.478
80.0	71.425	64.739	62.654	66.273	73.142
80.5	66.334	60.170	58.268	61.642	67.898
81.0	61.427	55.631	53.914	57.072	62.838
81.5	56.766	51.184	49.712	52.595	57.900
82.0	52.135	46.860	45.449	48.209	53.147
82.5	47.872	42.751	41.217	43.977	48.608

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CANDELA TABULATION - (Cont.)

83.0	43.824	38.948	36.924	39.898	44.315
83.5	40.113	35.452	32.784	36.034	40.236
84.0	36.525	32.232	28.889	32.477	36.494
84.5	33.029	29.196	25.331	29.165	32.998
85.0	29.625	26.343	22.387	26.098	29.625
85.5	26.190	23.430	19.995	23.062	26.374
86.0	23.001	20.578	17.971	20.179	23.154
86.5	19.934	17.818	16.100	17.450	20.271
87.0	17.235	15.180	14.322	14.966	17.665
87.5	14.659	12.819	12.543	12.880	15.334
88.0	12.298	10.795	10.672	11.102	13.156
88.5	9.967	8.894	8.526	9.231	10.979
89.0	6.992	6.410	5.673	6.348	8.219
89.5	2.760	3.036	2.668	2.821	3.833
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

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PHOTOMETRIC FILENAME : FRM-22-L25-827-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-L25-827-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-L25-827-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.45	N.A.	18.00
0-30	846.56	N.A.	35.40
0-40	1281.7	N.A.	53.60
0-60	2009.4	N.A.	84.00
0-80	2361.37	N.A.	98.70
0-90	2393.01	N.A.	100.00
10-90	2274.41	N.A.	95.00
20-40	850.25	N.A.	35.50
20-50	1250.66	N.A.	52.30
40-70	956.17	N.A.	40.00
60-80	351.97	N.A.	14.70
70-80	123.51	N.A.	5.20
80-90	31.63	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	2393.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.60
10-20	312.85
20-30	415.11
30-40	435.13
40-50	400.41
50-60	327.29
60-70	228.46
70-80	123.51
80-90	31.63
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-L25-827-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-L25-827-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

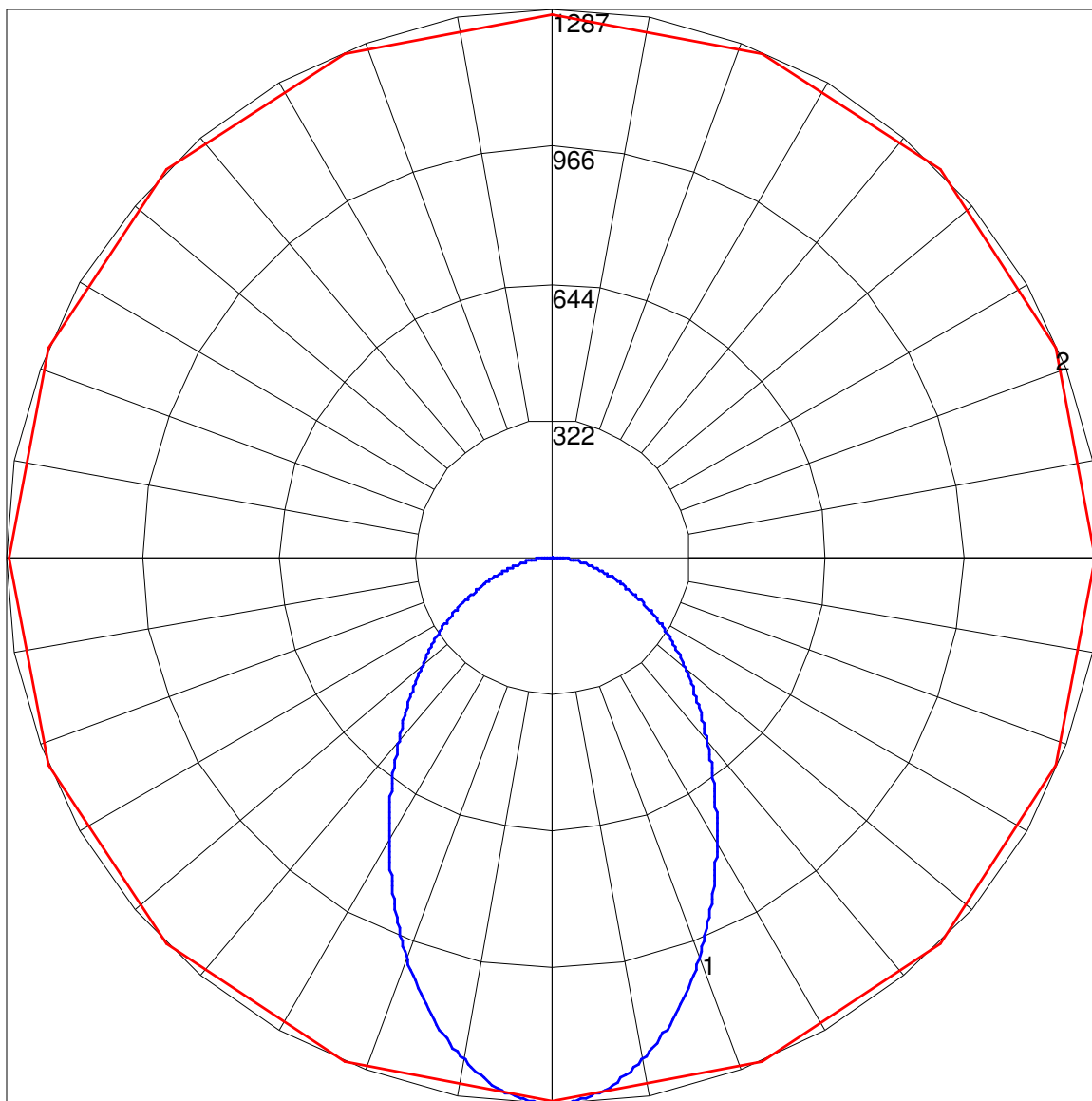
Reflectances

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	13.8	15.3	14.2	15.7	16.0	13.8	15.3	14.1	15.6	15.9
	3H	15.4	16.8	15.8	17.2	17.5	15.4	16.8	15.8	17.1	17.5
	4H	16.0	17.3	16.4	17.7	18.1	16.1	17.4	16.5	17.7	18.1
	6H	16.5	17.7	16.9	18.0	18.4	16.5	17.7	16.9	18.1	18.4
	8H	16.6	17.7	17.0	18.1	18.5	16.6	17.8	17.1	18.1	18.5
	12H	16.6	17.7	17.1	18.1	18.5	16.7	17.8	17.1	18.2	18.6
4H	2H	14.2	15.5	14.6	15.9	16.3	14.2	15.5	14.6	15.9	16.2
	3H	16.1	17.2	16.5	17.6	18.0	16.1	17.2	16.5	17.6	18.0
	4H	16.8	17.8	17.2	18.2	18.6	16.8	17.8	17.2	18.2	18.6
	6H	17.3	18.2	17.8	18.6	19.1	17.4	18.2	17.8	18.7	19.1
	8H	17.5	18.3	18.0	18.7	19.2	17.5	18.3	18.0	18.8	19.2
	12H	17.6	18.3	18.1	18.8	19.3	17.6	18.4	18.1	18.8	19.3
8H	4H	17.0	17.8	17.5	18.3	18.7	17.0	17.8	17.5	18.3	18.7
	6H	17.6	18.3	18.1	18.8	19.3	17.7	18.3	18.2	18.8	19.3
	8H	17.8	18.4	18.4	18.9	19.4	17.9	18.5	18.4	19.0	19.5
	12H	18.0	18.5	18.5	19.0	19.6	18.1	18.6	18.6	19.1	19.6
12H	4H	17.0	17.7	17.5	18.2	18.7	17.0	17.8	17.5	18.2	18.7
	6H	17.7	18.3	18.2	18.7	19.3	17.7	18.3	18.2	18.8	19.3
	8H	17.9	18.4	18.4	18.9	19.5	18.0	18.5	18.5	19.0	19.5

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 1287.424 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.)