

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-830-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-L25-830-DMA-DIM-UNV_
[LUMINAIRE] Recessed 2 x 4 narrow aperture LED luminaire
[MORE] with center frame driver housing
[LAMP] LED
[_SEARCH_SOURCE TYPE] 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	2429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	25.3
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	1297	1001	1064
55	1150	867	936
65	994	744	805
75	803	617	670
85	591	443	522

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-830-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1301.462	1301.462	1301.462	1301.462	1301.462
0.5	1286.332	1300.227	1304.550	1303.624	1306.711
1.0	1285.715	1299.610	1303.932	1303.006	1305.785
1.5	1285.097	1298.683	1303.006	1301.462	1304.550
2.0	1283.862	1297.448	1301.462	1299.610	1302.388
2.5	1282.318	1295.596	1299.301	1297.139	1299.918
3.0	1280.775	1293.743	1296.831	1294.360	1297.139
3.5	1278.304	1291.273	1294.052	1290.964	1293.743
4.0	1275.834	1288.494	1290.655	1287.259	1289.729
4.5	1273.055	1285.406	1286.950	1282.936	1285.097
5.0	1269.968	1282.010	1282.936	1278.304	1280.466
5.5	1266.571	1277.996	1278.304	1273.055	1275.217
6.0	1262.866	1273.673	1273.055	1267.806	1269.041
6.5	1258.543	1269.659	1267.498	1261.631	1263.175
7.0	1254.220	1265.027	1261.940	1255.456	1256.382
7.5	1249.898	1259.778	1255.764	1248.971	1249.280
8.0	1244.957	1254.220	1249.589	1241.870	1242.178
8.5	1239.708	1248.663	1242.487	1234.150	1234.459
9.0	1234.459	1242.796	1235.694	1226.431	1226.431
9.5	1229.210	1236.621	1228.593	1218.712	1218.403
10.0	1223.344	1230.136	1220.873	1210.375	1209.758
10.5	1217.477	1223.652	1213.154	1201.730	1200.495
11.0	1211.302	1216.551	1204.817	1192.775	1191.540
11.5	1205.126	1209.449	1196.481	1183.512	1182.277
12.0	1198.642	1202.038	1187.835	1173.940	1172.705
12.5	1191.849	1194.319	1178.881	1164.060	1163.134
13.0	1185.056	1186.600	1169.926	1154.179	1153.253
13.5	1177.954	1178.572	1160.663	1144.299	1143.681
14.0	1170.853	1170.235	1151.092	1133.800	1133.183
14.5	1163.442	1162.207	1141.211	1123.302	1122.376
15.0	1156.032	1153.870	1131.330	1112.187	1111.878
15.5	1148.621	1144.916	1121.141	1101.380	1101.071
16.0	1140.902	1136.271	1110.952	1090.573	1089.955
16.5	1133.183	1127.316	1100.145	1079.148	1078.840
17.0	1125.464	1118.053	1089.338	1068.033	1067.415
17.5	1117.436	1108.481	1078.531	1056.608	1055.991
18.0	1109.099	1098.910	1067.415	1044.875	1044.257
18.5	1100.453	1089.338	1055.991	1033.142	1032.524
19.0	1092.117	1079.766	1044.875	1021.409	1020.791
19.5	1083.471	1069.885	1033.450	1009.675	1009.367
20.0	1074.826	1060.005	1021.717	997.325	997.325
20.5	1066.180	1049.815	1009.984	985.591	985.591
21.0	1057.226	1039.626	997.942	973.241	973.858
21.5	1047.963	1029.437	985.900	961.199	961.816
22.0	1038.700	1019.247	973.858	949.157	950.083
22.5	1029.745	1009.058	961.816	936.806	938.041
23.0	1020.791	998.560	949.774	924.764	926.308
23.5	1011.837	987.753	937.423	912.413	914.574
24.0	1002.882	977.563	925.381	900.062	902.841
24.5	993.619	966.756	913.339	888.329	891.417
25.0	984.356	956.258	901.297	876.287	879.992
25.5	975.402	945.760	888.947	864.554	868.568
26.0	966.139	935.262	877.213	852.512	857.452
26.5	957.185	924.455	864.863	840.470	846.336

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27.0	947.921	913.957	852.821	828.737	835.529
27.5	938.967	903.459	840.779	817.312	824.414
28.0	930.013	892.961	829.045	805.888	813.607
28.5	920.750	882.462	817.312	794.463	803.417
29.0	911.487	871.964	805.579	783.347	792.611
29.5	902.532	861.775	794.154	772.232	782.112
30.0	893.578	851.277	782.421	761.116	772.232
30.5	884.933	840.779	770.997	750.309	762.042
31.0	876.287	830.589	759.263	739.502	752.162
31.5	867.024	820.400	748.148	729.004	742.281
32.0	858.070	809.902	736.723	718.506	732.401
32.5	849.115	799.712	725.299	708.008	722.829
33.0	839.852	789.832	714.183	697.510	713.257
33.5	831.207	779.642	703.067	687.320	703.994
34.0	821.944	769.453	691.952	677.440	694.731
34.5	812.989	759.572	681.454	667.250	685.468
35.0	804.035	749.383	670.647	657.678	676.513
35.5	795.389	739.193	659.840	647.798	667.559
36.0	786.435	729.313	649.033	638.226	658.605
36.5	777.481	719.432	638.843	628.654	649.959
37.0	768.527	709.552	628.654	619.082	641.314
37.5	759.572	699.980	618.465	609.819	632.668
38.0	750.927	690.408	608.584	600.865	624.023
38.5	741.972	680.527	598.703	591.911	615.686
39.0	732.709	670.647	588.823	583.265	607.349
39.5	724.064	661.384	579.251	574.311	599.321
40.0	715.109	651.812	569.988	565.974	591.293
40.5	706.464	642.549	560.725	557.328	583.265
41.0	697.201	632.977	551.771	548.992	575.237
41.5	688.555	624.023	542.816	540.964	567.518
42.0	679.601	614.759	533.862	532.936	559.490
42.5	670.955	605.805	525.216	524.908	551.771
43.0	662.001	596.542	516.571	516.571	544.360
43.5	653.047	587.588	508.234	508.852	536.641
44.0	644.093	578.633	499.897	501.132	529.230
44.5	635.447	569.679	491.869	493.413	521.820
45.0	626.493	561.034	483.533	485.694	514.101
45.5	617.538	552.079	475.505	478.283	506.690
46.0	608.893	543.125	467.785	470.564	499.280
46.5	600.247	534.479	460.066	463.154	491.869
47.0	591.602	525.834	452.347	455.743	484.150
47.5	582.647	517.188	444.628	448.642	476.740
48.0	573.693	508.543	437.217	441.231	469.329
48.5	564.739	499.897	429.498	433.821	461.919
49.0	556.402	491.561	422.396	426.410	454.508
49.5	547.139	482.915	414.986	419.309	447.407
50.0	538.493	474.578	407.575	411.898	439.996
50.5	529.848	466.241	400.474	404.796	432.894
51.0	520.894	457.905	393.372	397.695	425.484
51.5	512.248	449.259	386.579	390.284	417.765
52.0	502.985	440.922	379.477	383.183	410.663
52.5	494.339	432.586	372.684	376.081	403.253
53.0	485.694	424.558	366.200	369.288	395.842
53.5	477.048	416.221	359.407	362.186	388.432
54.0	468.094	408.193	352.614	355.085	381.021
54.5	459.449	400.474	346.130	348.292	373.611

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55.0	450.803	392.446	339.646	341.499	366.818
55.5	442.157	384.418	333.162	334.706	359.716
56.0	433.512	376.698	326.678	327.913	352.306
56.5	425.175	368.979	320.194	321.429	345.204
57.0	416.838	361.260	314.018	314.636	338.102
57.5	408.193	353.541	307.812	307.966	331.001
58.0	399.856	346.130	301.513	301.420	324.208
58.5	391.519	338.411	295.369	294.782	317.415
59.0	383.183	331.001	289.101	288.267	310.313
59.5	375.155	323.590	282.956	281.845	303.335
60.0	366.818	316.180	276.750	275.422	296.635
60.5	358.790	308.769	270.544	269.061	290.089
61.0	350.762	301.482	264.461	262.639	283.388
61.5	342.425	294.288	258.131	256.340	276.842
62.0	334.706	287.124	252.017	250.041	270.451
62.5	326.678	280.115	245.780	243.835	263.905
63.0	318.650	273.075	239.605	237.721	257.297
63.5	311.239	266.252	233.460	231.670	251.122
64.0	303.211	259.304	227.131	225.618	244.761
64.5	295.183	252.450	220.924	219.658	238.524
65.0	286.939	245.780	214.687	213.884	232.411
65.5	279.096	238.956	208.574	208.203	226.297
66.0	271.315	232.133	202.553	202.460	219.658
66.5	263.751	225.494	196.593	196.964	213.545
67.0	256.186	218.763	190.727	191.530	207.524
67.5	248.467	212.186	184.922	186.064	201.595
68.0	240.439	205.702	179.333	180.692	195.605
68.5	232.596	199.434	173.930	175.319	189.893
69.0	225.154	193.043	168.588	169.977	183.996
69.5	217.898	186.836	163.339	164.728	178.160
70.0	210.550	180.784	158.152	159.572	172.386
70.5	203.448	174.671	153.026	154.508	166.828
71.0	196.161	168.650	147.993	149.444	161.208
71.5	189.214	162.721	143.022	144.442	155.743
72.0	182.143	156.886	138.051	139.471	150.309
72.5	175.257	150.988	133.080	134.562	144.905
73.0	168.372	145.183	128.232	129.621	139.595
73.5	161.672	139.409	123.353	124.743	134.253
74.0	155.064	133.666	118.506	119.833	128.942
74.5	148.425	127.985	113.720	115.017	123.724
75.0	141.910	122.334	109.057	110.200	118.536
75.5	135.395	116.746	104.395	105.506	113.287
76.0	129.004	111.188	99.640	100.751	108.224
76.5	122.705	105.630	95.039	96.058	103.067
77.0	116.560	100.010	90.500	91.396	98.003
77.5	110.416	94.607	85.900	86.888	92.970
78.0	104.333	89.450	81.330	82.349	87.999
78.5	98.312	84.263	76.884	77.902	83.059
79.0	92.476	79.230	72.437	73.487	78.242
79.5	86.888	74.290	68.053	69.072	73.456
80.0	81.330	69.566	63.668	64.656	68.701
80.5	75.895	64.872	59.315	60.303	64.317
81.0	70.585	60.272	55.023	56.165	60.086
81.5	65.428	55.887	50.762	52.306	56.196
82.0	60.488	51.595	46.655	48.600	52.367
82.5	55.764	47.489	42.579	45.142	48.569

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CANDELA TABULATION - (Cont.)

83.0	51.287	43.475	38.751	41.838	44.864
83.5	46.964	39.646	35.231	38.504	41.282
84.0	42.950	36.002	32.019	35.200	37.762
84.5	38.967	32.452	29.117	31.958	34.366
85.0	35.200	29.055	26.369	28.777	31.093
85.5	31.587	25.813	23.806	25.720	27.913
86.0	28.005	22.664	21.367	22.849	25.072
86.5	24.516	19.730	19.051	20.286	22.509
87.0	21.027	17.106	16.890	18.094	20.132
87.5	17.538	14.728	14.975	16.241	18.063
88.0	14.111	12.474	13.184	14.543	16.210
88.5	11.054	10.313	11.332	12.845	14.420
89.0	8.244	7.966	9.078	10.406	11.517
89.5	5.095	5.064	6.083	7.812	9.078
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
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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-L25-830-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-L25-830-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	437.56	N.A.	18.00
0-30	858.78	N.A.	35.40
0-40	1299.6	N.A.	53.50
0-60	2037.07	N.A.	83.90
0-80	2394.03	N.A.	98.60
0-90	2428.62	N.A.	100.00
10-90	2308.41	N.A.	95.10
20-40	862.05	N.A.	35.50
20-50	1267.65	N.A.	52.20
40-70	969.27	N.A.	39.90
60-80	356.97	N.A.	14.70
70-80	125.15	N.A.	5.20
80-90	34.59	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	2428.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.20
10-20	317.36
20-30	421.22
30-40	440.82
40-50	405.60
50-60	331.86
60-70	231.81
70-80	125.15
80-90	34.59
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-L25-830-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	101	98	107	103	100	96	99	96	93	95	93	91	91	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-L25-830-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

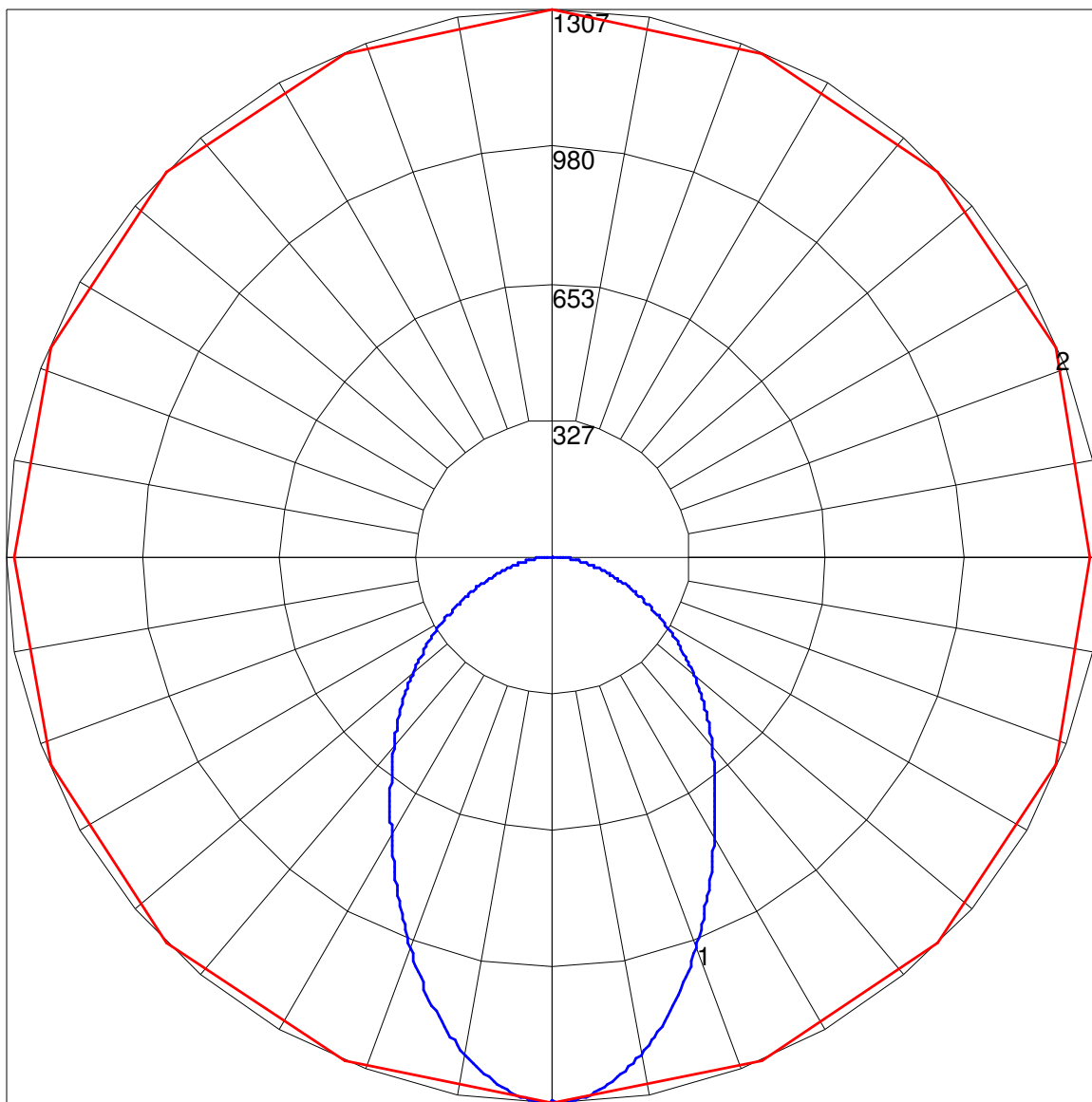
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.9	13.5	12.3	13.8	14.1	10.9	12.4	11.2	12.7	13.0
	3H	13.6	15.0	14.0	15.3	15.7	12.5	13.9	12.9	14.2	14.6
	4H	14.2	15.5	14.6	15.9	16.2	13.1	14.4	13.5	14.8	15.1
	6H	14.6	15.8	15.1	16.2	16.6	13.5	14.7	14.0	15.1	15.5
	8H	14.8	15.9	15.2	16.3	16.7	13.7	14.8	14.1	15.2	15.6
	12H	14.9	15.9	15.3	16.3	16.8	13.8	14.9	14.2	15.3	15.7
4H	2H	12.3	13.6	12.7	13.9	14.3	11.4	12.7	11.8	13.0	13.4
	3H	14.2	15.2	14.6	15.6	16.0	13.2	14.3	13.6	14.7	15.1
	4H	14.9	15.9	15.3	16.3	16.7	13.9	14.9	14.4	15.3	15.8
	6H	15.4	16.3	15.9	16.7	17.2	14.5	15.3	15.0	15.8	16.3
	8H	15.6	16.4	16.1	16.8	17.3	14.7	15.5	15.1	15.9	16.4
	12H	15.7	16.4	16.2	16.9	17.4	14.8	15.5	15.3	16.0	16.5
8H	4H	15.1	15.8	15.5	16.3	16.8	14.2	15.0	14.7	15.4	15.9
	6H	15.7	16.3	16.2	16.8	17.3	14.9	15.5	15.4	16.0	16.5
	8H	15.9	16.5	16.4	17.0	17.5	15.1	15.7	15.6	16.2	16.7
	12H	16.1	16.6	16.6	17.1	17.7	15.3	15.8	15.8	16.3	16.9
12H	4H	15.1	15.8	15.5	16.2	16.7	14.2	14.9	14.7	15.4	15.9
	6H	15.7	16.3	16.2	16.8	17.3	14.9	15.5	15.4	16.0	16.5
	8H	16.0	16.5	16.5	17.0	17.6	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 1306.711 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.)