

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-950-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-L25-950-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	2183
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	1166	900	957
55	1034	779	842
65	893	668	724
75	721	554	603
85	531	398	469

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-950-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>
<b>0.0</b>	1170.001	1170.001	1170.001	1170.001	1170.001
<b>0.5</b>	1156.400	1168.891	1172.777	1171.944	1174.720
<b>1.0</b>	1155.845	1168.336	1172.222	1171.389	1173.888
<b>1.5</b>	1155.290	1167.503	1171.389	1170.001	1172.777
<b>2.0</b>	1154.179	1166.393	1170.001	1168.336	1170.834
<b>2.5</b>	1152.791	1164.727	1168.058	1166.115	1168.614
<b>3.0</b>	1151.404	1163.062	1165.838	1163.617	1166.115
<b>3.5</b>	1149.183	1160.841	1163.339	1160.564	1163.062
<b>4.0</b>	1146.962	1158.343	1160.286	1157.233	1159.453
<b>4.5</b>	1144.464	1155.567	1156.955	1153.347	1155.290
<b>5.0</b>	1141.688	1152.514	1153.347	1149.183	1151.126
<b>5.5</b>	1138.635	1148.905	1149.183	1144.464	1146.407
<b>6.0</b>	1135.304	1145.019	1144.464	1139.745	1140.855
<b>6.5</b>	1131.418	1141.411	1139.468	1134.194	1135.581
<b>7.0</b>	1127.532	1137.247	1134.471	1128.642	1129.475
<b>7.5</b>	1123.646	1132.528	1128.920	1122.813	1123.090
<b>8.0</b>	1119.204	1127.532	1123.368	1116.428	1116.706
<b>8.5</b>	1114.485	1122.535	1116.984	1109.489	1109.766
<b>9.0</b>	1109.766	1117.261	1110.877	1102.549	1102.549
<b>9.5</b>	1105.048	1111.710	1104.492	1095.610	1095.332
<b>10.0</b>	1099.774	1105.880	1097.553	1088.115	1087.560
<b>10.5</b>	1094.500	1100.051	1090.613	1080.343	1079.233
<b>11.0</b>	1088.948	1093.667	1083.119	1072.293	1071.183
<b>11.5</b>	1083.396	1087.282	1075.624	1063.966	1062.855
<b>12.0</b>	1077.567	1080.621	1067.852	1055.361	1054.250
<b>12.5</b>	1071.460	1073.681	1059.802	1046.478	1045.645
<b>13.0</b>	1065.354	1066.742	1051.752	1037.596	1036.763
<b>13.5</b>	1058.969	1059.524	1043.425	1028.713	1028.158
<b>14.0</b>	1052.585	1052.030	1034.820	1019.275	1018.720
<b>14.5</b>	1045.923	1044.813	1025.937	1009.838	1009.005
<b>15.0</b>	1039.261	1037.318	1017.055	999.845	999.567
<b>15.5</b>	1032.599	1029.268	1007.894	990.129	989.852
<b>16.0</b>	1025.660	1021.496	998.734	980.414	979.859
<b>16.5</b>	1018.720	1013.446	989.019	970.144	969.866
<b>17.0</b>	1011.781	1005.119	979.304	960.151	959.595
<b>17.5</b>	1004.564	996.514	969.588	949.880	949.325
<b>18.0</b>	997.069	987.909	959.595	939.332	938.777
<b>18.5</b>	989.297	979.304	949.325	928.784	928.229
<b>19.0</b>	981.802	970.699	939.332	918.236	917.681
<b>19.5</b>	974.030	961.816	929.062	907.688	907.410
<b>20.0</b>	966.257	952.934	918.514	896.585	896.585
<b>20.5</b>	958.485	943.773	907.966	886.037	886.037
<b>21.0</b>	950.435	934.613	897.140	874.933	875.489
<b>21.5</b>	942.108	925.453	886.314	864.108	864.663
<b>22.0</b>	933.781	916.293	875.489	853.282	854.115
<b>22.5</b>	925.731	907.133	864.663	842.179	843.289
<b>23.0</b>	917.681	897.695	853.837	831.353	832.741
<b>23.5</b>	909.631	887.980	842.734	820.250	822.193
<b>24.0</b>	901.581	878.820	831.908	809.147	811.645
<b>24.5</b>	893.254	869.104	821.083	798.599	801.375
<b>25.0</b>	884.926	859.667	810.257	787.773	791.104
<b>25.5</b>	876.877	850.229	799.154	777.225	780.834
<b>26.0</b>	868.549	840.791	788.606	766.400	770.841
<b>26.5</b>	860.499	831.076	777.503	755.574	760.848

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-950-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

27.0	852.172	821.638	766.677	745.026	751.133
27.5	844.122	812.200	755.851	734.755	741.140
28.0	836.072	802.763	745.303	724.485	731.424
28.5	827.745	793.325	734.755	714.214	722.264
29.0	819.417	783.887	724.207	704.222	712.549
29.5	811.368	774.727	713.937	694.229	703.111
30.0	803.318	765.289	703.389	684.236	694.229
30.5	795.545	755.851	693.118	674.520	685.068
31.0	787.773	746.691	682.570	664.805	676.186
31.5	779.446	737.531	672.577	655.367	667.303
32.0	771.396	728.093	662.307	645.930	658.421
32.5	763.346	718.933	652.036	636.492	649.816
33.0	755.019	710.051	642.043	627.054	641.211
33.5	747.246	700.891	632.051	617.894	632.883
34.0	738.919	691.730	622.058	609.011	624.556
34.5	730.869	682.848	612.620	599.851	616.229
35.0	722.819	673.688	602.905	591.246	608.179
35.5	715.047	664.528	593.189	582.364	600.129
36.0	706.997	655.645	583.474	573.759	592.079
36.5	698.947	646.762	574.314	565.154	584.307
37.0	690.898	637.880	565.154	556.549	576.535
37.5	682.848	629.275	555.994	548.221	568.762
38.0	675.076	620.670	547.111	540.171	560.990
38.5	667.026	611.787	538.228	532.122	553.495
39.0	658.698	602.905	529.346	524.349	546.001
39.5	650.926	594.577	520.741	516.300	538.784
40.0	642.876	585.972	512.413	508.805	531.566
40.5	635.104	577.645	504.086	501.033	524.349
41.0	626.777	569.040	496.036	493.538	517.132
41.5	619.004	560.990	487.986	486.321	510.193
42.0	610.954	552.663	479.937	479.104	502.976
42.5	603.182	544.613	472.164	471.887	496.036
43.0	595.132	536.285	464.392	464.392	489.374
43.5	587.083	528.236	456.897	457.453	482.435
44.0	579.033	520.186	449.403	450.513	475.773
44.5	571.260	512.136	442.186	443.573	469.111
45.0	563.211	504.364	434.691	436.634	462.171
45.5	555.161	496.314	427.474	429.972	455.509
46.0	547.389	488.264	420.534	423.033	448.848
46.5	539.616	480.492	413.595	416.371	442.186
47.0	531.844	472.719	406.655	409.709	435.246
47.5	523.794	464.947	399.716	403.324	428.584
48.0	515.744	457.175	393.054	396.662	421.922
48.5	507.695	449.403	386.114	390.000	415.260
49.0	500.200	441.908	379.730	383.339	408.598
49.5	491.872	434.136	373.068	376.954	402.214
50.0	484.100	426.641	366.406	370.292	395.552
50.5	476.328	419.146	360.022	363.908	389.168
51.0	468.278	411.652	353.637	357.524	382.506
51.5	460.506	403.879	347.531	350.862	375.566
52.0	452.178	396.385	341.146	344.477	369.182
52.5	444.406	388.890	335.040	338.093	362.520
53.0	436.634	381.673	329.210	331.986	355.858
53.5	428.862	374.178	323.104	325.602	349.196
54.0	420.812	366.961	316.997	319.217	342.534
54.5	413.040	360.022	311.168	313.111	335.872

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-950-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

55.0	405.267	352.805	305.338	307.004	329.766
55.5	397.495	345.588	299.509	300.897	323.381
56.0	389.723	338.648	293.680	294.790	316.719
56.5	382.228	331.709	287.851	288.961	310.335
57.0	374.734	324.769	282.299	282.854	303.951
57.5	366.961	317.830	276.720	276.859	297.566
58.0	359.467	311.168	271.057	270.974	291.459
58.5	351.972	304.228	265.533	265.006	285.353
59.0	344.477	297.566	259.899	259.149	278.968
59.5	337.260	290.904	254.375	253.375	272.695
60.0	329.766	284.242	248.795	247.602	266.672
60.5	322.548	277.580	243.216	241.884	260.787
61.0	315.331	271.030	237.748	236.110	254.763
61.5	307.837	264.562	232.057	230.447	248.879
62.0	300.897	258.122	226.561	224.785	243.133
62.5	293.680	251.821	220.954	219.205	237.248
63.0	286.463	245.492	215.402	213.709	231.308
63.5	279.801	239.358	209.879	208.269	225.756
64.0	272.584	233.112	204.188	202.828	220.038
64.5	265.367	226.950	198.609	197.471	214.431
65.0	257.955	220.954	193.002	192.280	208.935
65.5	250.905	214.819	187.506	187.172	203.439
66.0	243.910	208.685	182.093	182.009	197.471
66.5	237.109	202.717	176.735	177.069	191.975
67.0	230.308	196.666	171.461	172.183	186.562
67.5	223.369	190.753	166.243	167.270	181.232
68.0	216.152	184.924	161.219	162.440	175.847
68.5	209.101	179.289	156.361	157.610	170.712
69.0	202.412	173.543	151.559	152.808	165.410
69.5	195.888	167.964	146.840	148.089	160.164
70.0	189.282	162.523	142.177	143.454	154.973
70.5	182.898	157.027	137.569	138.901	149.977
71.0	176.347	151.614	133.044	134.349	144.925
71.5	170.101	146.285	128.575	129.852	140.012
72.0	163.745	141.039	124.106	125.383	135.126
72.5	157.555	135.737	119.637	120.970	130.268
73.0	151.365	130.518	115.279	116.528	125.494
73.5	145.341	125.328	110.893	112.142	120.692
74.0	139.401	120.165	106.535	107.729	115.918
74.5	133.433	115.057	102.233	103.399	111.226
75.0	127.576	109.977	98.041	99.068	106.563
75.5	121.719	104.953	93.850	94.849	101.844
76.0	115.973	99.957	89.575	90.574	97.292
76.5	110.310	94.960	85.439	86.355	92.656
77.0	104.787	89.908	81.359	82.164	88.104
77.5	99.263	85.051	77.223	78.111	83.579
78.0	93.794	80.415	73.115	74.031	79.110
78.5	88.382	75.752	69.118	70.034	74.669
79.0	83.135	71.227	65.120	66.064	70.339
79.5	78.111	66.786	61.179	62.095	66.036
80.0	73.115	62.539	57.237	58.125	61.762
80.5	68.229	58.320	53.323	54.211	57.820
81.0	63.455	54.184	49.465	50.492	54.017
81.5	58.819	50.242	45.634	47.022	50.520
82.0	54.378	46.384	41.942	43.691	47.078
82.5	50.131	42.692	38.278	40.582	43.663

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-950-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

83.0	46.106	39.083	34.836	37.612	40.332
83.5	42.220	35.641	31.672	34.614	37.113
84.0	38.611	32.366	28.785	31.644	33.948
84.5	35.031	29.174	26.176	28.730	30.895
85.0	31.644	26.120	23.705	25.870	27.952
85.5	28.396	23.206	21.401	23.122	25.093
86.0	25.177	20.374	19.209	20.541	22.540
86.5	22.040	17.737	17.127	18.237	20.236
87.0	18.903	15.378	15.184	16.266	18.098
87.5	15.767	13.241	13.463	14.601	16.238
88.0	12.685	11.214	11.853	13.074	14.573
88.5	9.937	9.271	10.187	11.547	12.963
89.0	7.411	7.162	8.161	9.354	10.354
89.5	4.580	4.552	5.468	7.023	8.161
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FRM-24-L25-950-DMA-DIM-UNV\_.IES\_.IES

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-L25-950-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-L25-950-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-L25-950-DMA-DIM-UNV\_.IES\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	393.36	N.A.	18.00
0-30	772.04	N.A.	35.40
0-40	1168.33	N.A.	53.50
0-60	1831.3	N.A.	83.90
0-80	2152.21	N.A.	98.60
0-90	2183.3	N.A.	100.00
10-90	2075.24	N.A.	95.10
20-40	774.97	N.A.	35.50
20-50	1139.61	N.A.	52.20
40-70	871.37	N.A.	39.90
60-80	320.91	N.A.	14.70
70-80	112.51	N.A.	5.20
80-90	31.09	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	2183.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.06
10-20	285.30
20-30	378.68
30-40	396.29
40-50	364.63
50-60	298.34
60-70	208.40
70-80	112.51
80-90	31.09
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-L25-950-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	69	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-L25-950-DMA-DIM-UNV\_.IES\_.IES

## UGR TABLE - CORRECTED

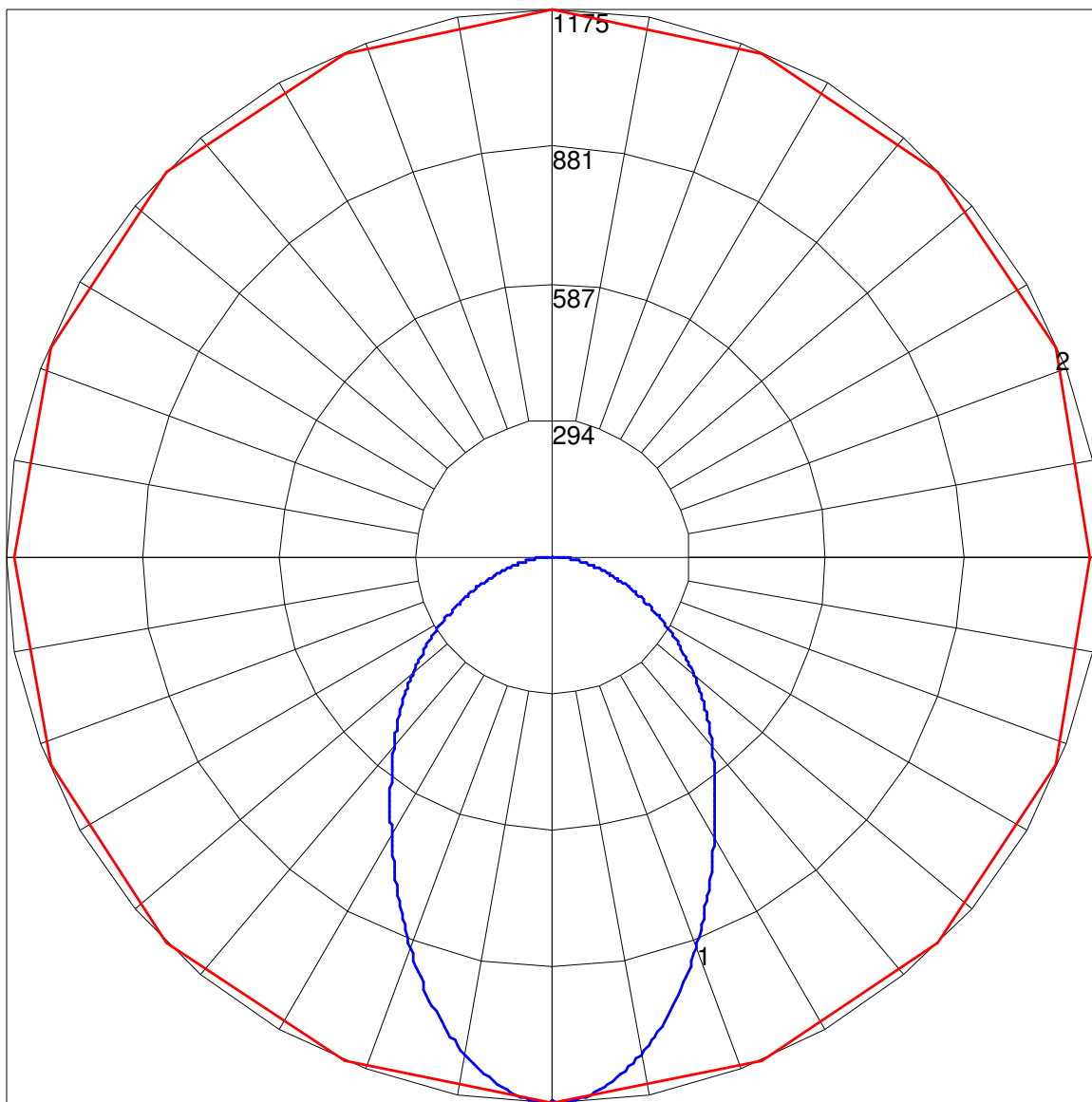
### Reflectances

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	11.5	13.1	11.9	13.4	13.7	10.5	12.0	10.8	12.3	12.6
	3H	13.2	14.6	13.6	14.9	15.3	12.1	13.5	12.5	13.8	14.2
	4H	13.8	15.1	14.2	15.5	15.8	12.7	14.0	13.1	14.4	14.7
	6H	14.2	15.4	14.7	15.8	16.2	13.1	14.3	13.6	14.7	15.1
	8H	14.4	15.5	14.8	15.9	16.3	13.3	14.4	13.7	14.8	15.2
	12H	14.5	15.5	14.9	15.9	16.4	13.4	14.5	13.8	14.9	15.3
4H	2H	11.9	13.2	12.3	13.5	13.9	11.0	12.3	11.4	12.6	13.0
	3H	13.8	14.8	14.2	15.2	15.6	12.8	13.9	13.2	14.3	14.7
	4H	14.5	15.5	14.9	15.9	16.3	13.5	14.5	14.0	14.9	15.4
	6H	15.0	15.9	15.5	16.3	16.8	14.1	14.9	14.6	15.4	15.9
	8H	15.2	16.0	15.7	16.4	16.9	14.3	15.1	14.7	15.5	16.0
	12H	15.3	16.0	15.8	16.5	17.0	14.4	15.1	14.9	15.6	16.1
8H	4H	14.7	15.4	15.1	15.9	16.4	13.8	14.6	14.3	15.0	15.5
	6H	15.3	15.9	15.8	16.4	16.9	14.5	15.1	15.0	15.6	16.1
	8H	15.5	16.1	16.0	16.6	17.1	14.7	15.3	15.2	15.8	16.3
	12H	15.7	16.2	16.2	16.7	17.3	14.9	15.4	15.4	15.9	16.5
12H	4H	14.7	15.4	15.1	15.8	16.3	13.8	14.5	14.3	15.0	15.5
	6H	15.3	15.9	15.8	16.4	16.9	14.5	15.1	15.0	15.6	16.1
	8H	15.6	16.1	16.1	16.6	17.2	14.8	15.3	15.3	15.8	16.4

Maximum UGR = 17.3

POLAR GRAPH



Maximum Candela = 1174.72 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.)