

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-940-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-L25-940-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	2110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	1127	869	924
55	999	753	813
65	863	646	699
75	697	536	582
85	514	385	454

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-940-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	1130.563	1130.563	1130.563	1130.563	1130.563
0.5	1117.420	1129.490	1133.246	1132.441	1135.123
1.0	1116.884	1128.954	1132.709	1131.904	1134.318
1.5	1116.347	1128.149	1131.904	1130.563	1133.246
2.0	1115.275	1127.076	1130.563	1128.954	1131.368
2.5	1113.933	1125.467	1128.686	1126.808	1129.222
3.0	1112.592	1123.858	1126.540	1124.394	1126.808
3.5	1110.447	1121.712	1124.126	1121.444	1123.858
4.0	1108.301	1119.298	1121.175	1118.225	1120.371
4.5	1105.887	1116.616	1117.957	1114.470	1116.347
5.0	1103.204	1113.665	1114.470	1110.447	1112.324
5.5	1100.254	1110.178	1110.447	1105.887	1107.764
6.0	1097.035	1106.423	1105.887	1101.327	1102.400
6.5	1093.280	1102.936	1101.059	1095.962	1097.304
7.0	1089.525	1098.913	1096.231	1090.598	1091.403
7.5	1085.770	1094.353	1090.866	1084.965	1085.233
8.0	1081.478	1089.525	1085.502	1078.796	1079.064
8.5	1076.919	1084.697	1079.333	1072.090	1072.359
9.0	1072.359	1079.601	1073.432	1065.385	1065.385
9.5	1067.799	1074.236	1067.262	1058.679	1058.411
10.0	1062.703	1068.604	1060.557	1051.437	1050.901
10.5	1057.606	1062.971	1053.851	1043.927	1042.854
11.0	1052.242	1056.802	1046.609	1036.149	1035.076
11.5	1046.877	1050.633	1039.367	1028.102	1027.029
12.0	1041.245	1044.195	1031.857	1019.787	1018.714
12.5	1035.344	1037.490	1024.078	1011.204	1010.399
13.0	1029.443	1030.784	1016.300	1002.621	1001.816
13.5	1023.274	1023.810	1008.253	994.037	993.501
14.0	1017.105	1016.568	999.938	984.918	984.381
14.5	1010.667	1009.594	991.355	975.798	974.993
15.0	1004.230	1002.352	982.772	966.142	965.874
15.5	997.793	994.574	973.921	956.754	956.486
16.0	991.087	987.064	965.069	947.366	946.830
16.5	984.381	979.285	955.681	937.442	937.174
17.0	977.676	971.238	946.294	927.786	927.250
17.5	970.702	962.923	936.906	917.862	917.325
18.0	963.460	954.608	927.250	907.669	907.133
18.5	955.950	946.294	917.325	897.477	896.940
19.0	948.708	937.979	907.669	887.284	886.748
19.5	941.197	929.395	897.745	877.092	876.824
20.0	933.687	920.812	887.553	866.363	866.363
20.5	926.177	911.961	877.360	856.170	856.170
21.0	918.398	903.110	866.899	845.441	845.978
21.5	910.352	894.258	856.439	834.981	835.517
22.0	902.305	885.407	845.978	824.520	825.325
22.5	894.526	876.555	835.517	813.791	814.864
23.0	886.748	867.436	825.056	803.330	804.671
23.5	878.969	858.048	814.327	792.601	794.479
24.0	871.191	849.197	803.867	781.872	784.286
24.5	863.144	839.809	793.406	771.680	774.362
25.0	855.097	830.689	782.945	761.219	764.438
25.5	847.319	821.569	772.216	751.027	754.514
26.0	839.272	812.450	762.024	740.566	744.857
26.5	831.494	803.062	751.295	730.105	735.201

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27.0	823.447	793.942	740.834	719.913	725.814
27.5	815.669	784.823	730.373	709.988	716.158
28.0	807.890	775.703	720.181	700.064	706.770
28.5	799.843	766.584	709.988	690.140	697.918
29.0	791.797	757.464	699.796	680.484	688.530
29.5	784.018	748.613	689.872	670.828	679.411
30.0	776.240	739.493	679.679	661.172	670.828
30.5	768.729	730.373	669.755	651.784	661.976
31.0	761.219	721.522	659.562	642.396	653.393
31.5	753.172	712.671	649.906	633.276	644.810
32.0	745.394	703.551	639.982	624.157	636.227
32.5	737.615	694.700	630.058	615.037	627.912
33.0	729.569	686.116	620.402	605.918	619.597
33.5	722.058	677.265	610.746	597.066	611.550
34.0	714.012	668.414	601.090	588.483	603.504
34.5	706.233	659.831	591.970	579.632	595.457
35.0	698.455	650.979	582.582	571.317	587.678
35.5	690.944	642.128	573.194	562.734	579.900
36.0	683.166	633.545	563.806	554.419	572.121
36.5	675.388	624.961	554.955	546.104	564.611
37.0	667.609	616.378	546.104	537.789	557.101
37.5	659.831	608.063	537.252	529.742	549.591
38.0	652.320	599.748	528.669	521.963	542.080
38.5	644.542	591.165	520.086	514.185	534.838
39.0	636.495	582.582	511.503	506.675	527.596
39.5	628.985	574.535	503.188	498.896	520.622
40.0	621.206	566.220	495.141	491.654	513.649
40.5	613.696	558.174	487.094	484.144	506.675
41.0	605.649	549.859	479.316	476.902	499.701
41.5	598.139	542.080	471.537	469.928	492.995
42.0	590.361	534.034	463.759	462.954	486.022
42.5	582.850	526.255	456.249	455.980	479.316
43.0	575.072	518.208	448.738	448.738	472.879
43.5	567.293	510.430	441.496	442.033	466.173
44.0	559.515	502.651	434.254	435.327	459.736
44.5	552.005	494.873	427.281	428.622	453.298
45.0	544.226	487.363	420.038	421.916	446.593
45.5	536.448	479.584	413.065	415.479	440.155
46.0	528.937	471.806	406.359	408.773	433.718
46.5	521.427	464.295	399.653	402.336	427.281
47.0	513.917	456.785	392.948	395.898	420.575
47.5	506.138	449.275	386.242	389.729	414.138
48.0	498.360	441.765	379.805	383.292	407.700
48.5	490.581	434.254	373.099	376.854	401.263
49.0	483.339	427.012	366.930	370.417	394.825
49.5	475.293	419.502	360.493	364.248	388.656
50.0	467.782	412.260	354.055	357.811	382.219
50.5	460.272	405.018	347.886	351.641	376.050
51.0	452.494	397.776	341.717	345.472	369.612
51.5	444.983	390.266	335.816	339.035	362.907
52.0	436.937	383.024	329.647	332.866	356.738
52.5	429.426	375.782	323.746	326.697	350.300
53.0	421.916	368.808	318.113	320.796	343.863
53.5	414.406	361.566	312.212	314.627	337.426
54.0	406.627	354.592	306.312	308.457	330.988
54.5	399.117	347.886	300.679	302.556	324.551

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55.0	391.607	340.912	295.046	296.656	318.650
55.5	384.096	333.939	289.413	290.755	312.481
56.0	376.586	327.233	283.781	284.854	306.043
56.5	369.344	320.527	278.148	279.221	299.874
57.0	362.102	313.822	272.784	273.320	293.705
57.5	354.592	307.116	267.392	267.526	287.536
58.0	347.350	300.679	261.921	261.840	281.635
58.5	340.108	293.973	256.583	256.073	275.734
59.0	332.866	287.536	251.138	250.414	269.565
59.5	325.892	281.099	245.800	244.835	263.503
60.0	318.650	274.661	240.409	239.256	257.683
60.5	311.676	268.224	235.018	233.730	251.996
61.0	304.702	261.894	229.734	228.151	246.176
61.5	297.460	255.644	224.235	222.679	240.489
62.0	290.755	249.421	218.924	217.208	234.937
62.5	283.781	243.333	213.506	211.816	229.251
63.0	276.807	237.217	208.142	206.505	223.511
63.5	270.370	231.289	202.804	201.248	218.146
64.0	263.396	225.254	197.305	195.991	212.621
64.5	256.422	219.300	191.914	190.814	207.203
65.0	249.260	213.506	186.496	185.799	201.892
65.5	242.447	207.578	181.185	180.863	196.581
66.0	235.688	201.651	175.955	175.874	190.814
66.5	229.117	195.884	170.778	171.100	185.504
67.0	222.545	190.037	165.682	166.379	180.273
67.5	215.840	184.323	160.639	161.632	175.123
68.0	208.866	178.691	155.784	156.965	169.920
68.5	202.053	173.246	151.090	152.297	164.958
69.0	195.589	167.694	146.450	147.657	159.835
69.5	189.286	162.302	141.890	143.097	154.765
70.0	182.902	157.045	137.384	138.618	149.749
70.5	176.733	151.734	132.932	134.219	144.921
71.0	170.403	146.504	128.560	129.820	140.040
71.5	164.368	141.354	124.241	125.475	135.292
72.0	158.225	136.285	119.923	121.157	130.571
72.5	152.244	131.161	115.604	116.892	125.877
73.0	146.262	126.119	111.393	112.600	121.264
73.5	140.442	121.103	107.155	108.362	116.624
74.0	134.702	116.114	102.944	104.098	112.010
74.5	128.935	111.179	98.787	99.913	107.477
75.0	123.276	106.270	94.737	95.729	102.971
75.5	117.616	101.415	90.686	91.652	98.411
76.0	112.064	96.587	86.556	87.521	94.012
76.5	106.592	91.759	82.559	83.444	89.533
77.0	101.254	86.878	78.616	79.394	85.134
77.5	95.917	82.184	74.620	75.478	80.762
78.0	90.633	77.704	70.650	71.535	76.444
78.5	85.402	73.198	66.788	67.673	72.152
79.0	80.333	68.826	62.925	63.837	67.968
79.5	75.478	64.535	59.117	60.002	63.810
80.0	70.650	60.431	55.308	56.166	59.680
80.5	65.929	56.354	51.526	52.384	55.871
81.0	61.316	52.357	47.797	48.790	52.196
81.5	56.837	48.549	44.096	45.437	48.817
82.0	52.545	44.820	40.529	42.218	45.491
82.5	48.441	41.253	36.988	39.214	42.192

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-940-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

83.0	44.552	37.766	33.662	36.344	38.973
83.5	40.797	34.440	30.604	33.448	35.862
84.0	37.310	31.275	27.815	30.578	32.804
84.5	33.850	28.190	25.294	27.761	29.853
85.0	30.578	25.240	22.906	24.998	27.010
85.5	27.439	22.424	20.680	22.343	24.247
86.0	24.328	19.688	18.561	19.849	21.780
86.5	21.297	17.140	16.549	17.622	19.554
87.0	18.266	14.860	14.672	15.718	17.488
87.5	15.235	12.794	13.009	14.109	15.691
88.0	12.258	10.836	11.453	12.633	14.082
88.5	9.602	8.959	9.844	11.158	12.526
89.0	7.162	6.920	7.886	9.039	10.005
89.5	4.426	4.399	5.284	6.786	7.886
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

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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-L25-940-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-L25-940-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	380.10	N.A.	18.00
0-30	746.01	N.A.	35.40
0-40	1128.95	N.A.	53.50
0-60	1769.57	N.A.	83.90
0-80	2079.66	N.A.	98.60
0-90	2109.71	N.A.	100.00
10-90	2005.29	N.A.	95.10
20-40	748.85	N.A.	35.50
20-50	1101.19	N.A.	52.20
40-70	842.00	N.A.	39.90
60-80	310.09	N.A.	14.70
70-80	108.72	N.A.	5.20
80-90	30.04	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	2109.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.42
10-20	275.68
20-30	365.91
30-40	382.94
40-50	352.34
50-60	288.28
60-70	201.37
70-80	108.72
80-90	30.04
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-L25-940-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-L25-940-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

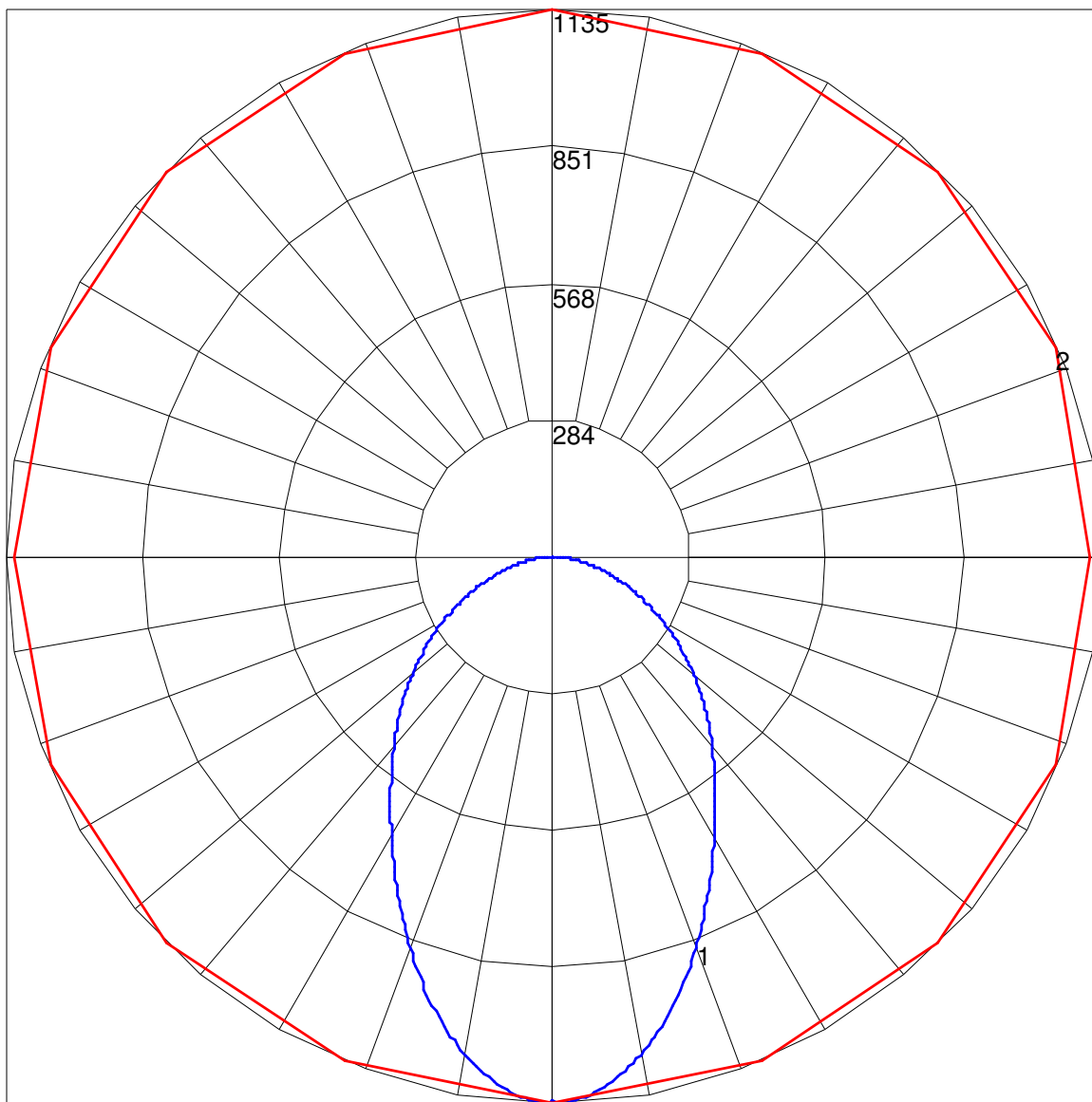
Reflectances

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	11.4	13.0	11.8	13.3	13.6	10.4	11.9	10.7	12.2	12.5
	3H	13.1	14.5	13.5	14.8	15.2	12.0	13.4	12.4	13.7	14.1
	4H	13.7	15.0	14.1	15.4	15.7	12.6	13.9	13.0	14.3	14.6
	6H	14.1	15.3	14.6	15.7	16.1	13.0	14.2	13.5	14.6	15.0
	8H	14.3	15.4	14.7	15.8	16.2	13.2	14.3	13.6	14.7	15.1
	12H	14.4	15.4	14.8	15.8	16.3	13.3	14.4	13.7	14.8	15.2
4H	2H	11.8	13.1	12.2	13.4	13.8	10.9	12.2	11.3	12.5	12.9
	3H	13.7	14.7	14.1	15.1	15.5	12.7	13.8	13.1	14.2	14.6
	4H	14.4	15.4	14.8	15.8	16.2	13.4	14.4	13.9	14.8	15.3
	6H	14.9	15.8	15.4	16.2	16.7	14.0	14.9	14.5	15.3	15.8
	8H	15.1	15.9	15.6	16.3	16.8	14.2	15.0	14.6	15.4	15.9
	12H	15.2	15.9	15.7	16.4	16.9	14.3	15.0	14.8	15.5	16.0
8H	4H	14.6	15.3	15.0	15.8	16.3	13.7	14.5	14.2	14.9	15.4
	6H	15.2	15.9	15.7	16.3	16.8	14.4	15.0	14.9	15.5	16.0
	8H	15.4	16.0	15.9	16.5	17.0	14.6	15.2	15.1	15.7	16.2
	12H	15.6	16.1	16.1	16.6	17.2	14.8	15.3	15.3	15.8	16.4
12H	4H	14.6	15.3	15.0	15.7	16.2	13.7	14.4	14.2	14.9	15.4
	6H	15.2	15.8	15.7	16.3	16.8	14.4	15.0	14.9	15.5	16.0
	8H	15.5	16.0	16.0	16.5	17.1	14.7	15.2	15.2	15.7	16.3

Maximum UGR = 17.2

POLAR GRAPH



Maximum Candela = 1135.123 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.)