

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-935-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-L25-935-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	2036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	1087	839	892
55	964	727	785
65	833	623	675
75	673	517	562
85	496	371	438

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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	1091.125	1091.125	1091.125	1091.125	1091.125
0.5	1078.440	1090.089	1093.714	1092.937	1095.526
1.0	1077.923	1089.572	1093.196	1092.419	1094.749
1.5	1077.405	1088.795	1092.419	1091.125	1093.714
2.0	1076.369	1087.760	1091.125	1089.572	1091.901
2.5	1075.075	1086.206	1089.313	1087.501	1089.831
3.0	1073.781	1084.653	1087.242	1085.171	1087.501
3.5	1071.710	1082.582	1084.912	1082.323	1084.653
4.0	1069.639	1080.252	1082.065	1079.217	1081.288
4.5	1067.309	1077.664	1078.958	1075.593	1077.405
5.0	1064.720	1074.816	1075.593	1071.710	1073.522
5.5	1061.873	1071.451	1071.710	1067.309	1069.121
6.0	1058.766	1067.827	1067.309	1062.908	1063.944
6.5	1055.142	1064.462	1062.650	1057.731	1059.025
7.0	1051.518	1060.579	1057.990	1052.554	1053.330
7.5	1047.894	1056.178	1052.813	1047.117	1047.376
8.0	1043.752	1051.518	1047.635	1041.164	1041.422
8.5	1039.351	1046.859	1041.681	1034.692	1034.951
9.0	1034.951	1041.940	1035.986	1028.220	1028.220
9.5	1030.550	1036.763	1030.032	1021.749	1021.490
10.0	1025.632	1031.327	1023.561	1014.759	1014.241
10.5	1020.713	1025.890	1017.089	1007.511	1006.475
11.0	1015.536	1019.936	1010.099	1000.004	998.968
11.5	1010.358	1013.982	1003.110	992.238	991.202
12.0	1004.922	1007.770	995.862	984.213	983.177
12.5	999.227	1001.298	988.355	975.929	975.152
13.0	993.532	994.826	980.847	967.645	966.869
13.5	987.578	988.096	973.081	959.362	958.844
14.0	981.624	981.106	965.057	950.560	950.042
14.5	975.411	974.376	956.773	941.759	940.982
15.0	969.198	967.386	948.489	932.439	932.180
15.5	962.986	959.879	939.946	923.379	923.120
16.0	956.514	952.631	931.404	914.319	913.801
16.5	950.042	945.124	922.344	904.741	904.482
17.0	943.571	937.358	913.283	895.421	894.904
17.5	936.840	929.333	904.223	885.843	885.326
18.0	929.851	921.308	894.904	876.006	875.489
18.5	922.602	913.283	885.326	866.169	865.652
19.0	915.613	905.258	876.006	856.332	855.815
19.5	908.365	896.975	866.428	846.495	846.237
20.0	901.116	888.691	856.591	836.141	836.141
20.5	893.868	880.148	846.754	826.304	826.304
21.0	886.361	871.606	836.659	815.949	816.467
21.5	878.595	863.063	826.563	805.853	806.371
22.0	870.829	854.520	816.467	795.758	796.534
22.5	863.322	845.978	806.371	785.403	786.438
23.0	855.815	837.176	796.275	775.307	776.601
23.5	848.308	828.116	785.921	764.952	766.764
24.0	840.800	819.573	775.825	754.598	756.927
24.5	833.034	810.513	765.729	744.761	747.349
25.0	825.268	801.711	755.633	734.665	737.771
25.5	817.761	792.910	745.278	724.828	728.193
26.0	809.995	784.108	735.441	714.732	718.874
26.5	802.488	775.048	725.087	704.636	709.555

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-935-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

27.0	794.722	766.247	714.991	694.799	700.494
27.5	787.215	757.445	704.895	685.221	691.175
28.0	779.708	748.644	695.058	675.643	682.115
28.5	771.942	739.842	685.221	666.065	673.572
29.0	764.176	731.041	675.384	656.746	664.512
29.5	756.669	722.498	665.806	647.427	655.710
30.0	749.161	713.697	655.969	638.107	647.427
30.5	741.913	704.895	646.391	629.047	638.884
31.0	734.665	696.353	636.554	619.987	630.600
31.5	726.899	687.810	627.235	611.185	622.317
32.0	719.392	679.008	617.657	602.384	614.033
32.5	711.885	670.466	608.079	593.582	606.008
33.0	704.119	662.182	598.760	584.781	597.983
33.5	696.870	653.639	589.440	576.238	590.217
34.0	689.104	645.097	580.121	567.954	582.451
34.5	681.597	636.813	571.320	559.412	574.685
35.0	674.090	628.270	562.259	551.387	567.178
35.5	666.842	619.728	553.199	543.103	559.671
36.0	659.335	611.444	544.139	535.078	552.164
36.5	651.827	603.160	535.596	527.053	544.915
37.0	644.320	594.877	527.053	519.029	537.667
37.5	636.813	586.852	518.511	511.263	530.419
38.0	629.565	578.827	510.227	503.755	523.170
38.5	622.058	570.543	501.943	496.248	516.181
39.0	614.292	562.259	493.660	489.000	509.192
39.5	607.043	554.493	485.635	481.493	502.461
40.0	599.536	546.468	477.869	474.503	495.731
40.5	592.288	538.702	470.103	467.255	489.000
41.0	584.522	530.678	462.596	460.266	482.269
41.5	577.274	523.170	455.088	453.535	475.798
42.0	569.767	515.404	447.581	446.805	469.067
42.5	562.518	507.897	440.333	440.074	462.596
43.0	555.011	500.131	433.085	433.085	456.383
43.5	547.504	492.624	426.095	426.613	449.911
44.0	539.997	485.117	419.106	420.141	443.698
44.5	532.749	477.610	412.375	413.670	437.485
45.0	525.241	470.362	405.386	407.198	431.014
45.5	517.734	462.854	398.655	400.985	424.801
46.0	510.486	455.347	392.184	394.513	418.588
46.5	503.238	448.099	385.712	388.301	412.375
47.0	495.989	440.851	379.240	382.088	405.904
47.5	488.482	433.602	372.769	376.134	399.691
48.0	480.975	426.354	366.556	369.921	393.478
48.5	473.468	419.106	360.084	363.708	387.265
49.0	466.479	412.116	354.130	357.495	381.052
49.5	458.713	404.868	347.917	351.542	375.098
50.0	451.464	397.879	341.705	345.329	368.886
50.5	444.216	390.889	335.751	339.375	362.932
51.0	436.709	383.900	329.797	333.421	356.719
51.5	429.461	376.652	324.102	327.208	350.247
52.0	421.695	369.662	318.148	321.254	344.293
52.5	414.446	362.673	312.453	315.300	338.080
53.0	407.198	355.942	307.016	309.605	331.868
53.5	399.950	348.953	301.321	303.651	325.655
54.0	392.443	342.222	295.626	297.697	319.442
54.5	385.194	335.751	290.190	292.002	313.229

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55.0	377.946	329.020	284.754	286.307	307.534
55.5	370.698	322.290	279.318	280.612	301.580
56.0	363.449	315.818	273.881	274.917	295.367
56.5	356.460	309.346	268.445	269.481	289.413
57.0	349.471	302.875	263.268	263.786	283.459
57.5	342.222	296.403	258.065	258.194	277.506
58.0	335.233	290.190	252.784	252.706	271.810
58.5	328.244	283.718	247.632	247.140	266.115
59.0	321.254	277.506	242.377	241.678	260.161
59.5	314.524	271.293	237.226	236.294	254.311
60.0	307.534	265.080	232.023	230.909	248.694
60.5	300.804	258.867	226.819	225.577	243.206
61.0	294.073	252.758	221.720	220.192	237.588
61.5	287.084	246.726	216.413	214.911	232.100
62.0	280.612	240.721	211.287	209.631	226.742
62.5	273.881	234.844	206.058	204.427	221.254
63.0	267.151	228.942	200.881	199.302	215.714
63.5	260.938	223.221	195.729	194.228	210.537
64.0	254.208	217.397	190.423	189.154	205.204
64.5	247.477	211.650	185.219	184.158	199.975
65.0	240.565	206.058	179.990	179.317	194.849
65.5	233.990	200.337	174.865	174.554	189.724
66.0	227.467	194.616	169.817	169.739	184.158
66.5	221.124	189.051	164.821	165.131	179.032
67.0	214.782	183.407	159.902	160.575	173.985
67.5	208.310	177.893	155.036	155.993	169.014
68.0	201.580	172.457	150.350	151.489	163.992
68.5	195.005	167.202	145.820	146.985	159.203
69.0	188.766	161.844	141.341	142.506	154.259
69.5	182.683	156.640	136.941	138.106	149.366
70.0	176.521	151.567	132.592	133.783	144.526
70.5	170.568	146.441	128.295	129.537	139.866
71.0	164.458	141.393	124.075	125.292	135.155
71.5	158.634	136.423	119.907	121.098	130.573
72.0	152.706	131.530	115.739	116.930	126.017
72.5	146.933	126.586	111.572	112.814	121.486
73.0	141.160	121.719	107.508	108.672	117.034
73.5	135.543	116.879	103.417	104.582	112.555
74.0	130.003	112.064	99.353	100.466	108.103
74.5	124.437	107.300	95.341	96.428	103.728
75.0	118.975	102.563	91.432	92.390	99.379
75.5	113.513	97.878	87.523	88.455	94.978
76.0	108.155	93.218	83.536	84.468	90.733
76.5	102.874	88.558	79.679	80.534	86.410
77.0	97.722	83.847	75.874	76.625	82.164
77.5	92.571	79.317	72.017	72.845	77.945
78.0	87.471	74.994	68.186	69.040	73.777
78.5	82.423	70.645	64.458	65.312	69.635
79.0	77.531	66.425	60.730	61.610	65.597
79.5	72.845	62.283	57.054	57.909	61.584
80.0	68.186	58.323	53.378	54.207	57.598
80.5	63.630	54.388	49.728	50.557	53.922
81.0	59.177	50.531	46.130	47.088	50.376
81.5	54.854	46.855	42.558	43.852	47.114
82.0	50.712	43.257	39.115	40.746	43.904
82.5	46.751	39.814	35.698	37.846	40.720

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CANDELA TABULATION - (Cont.)

83.0	42.998	36.448	32.488	35.076	37.613
83.5	39.374	33.239	29.537	32.281	34.611
84.0	36.008	30.184	26.845	29.511	31.659
84.5	32.669	27.207	24.411	26.793	28.812
85.0	29.511	24.359	22.107	24.126	26.068
85.5	26.482	21.641	19.959	21.564	23.402
86.0	23.479	19.001	17.914	19.156	21.020
86.5	20.554	16.542	15.972	17.008	18.871
87.0	17.629	14.341	14.160	15.170	16.878
87.5	14.704	12.348	12.555	13.616	15.144
88.0	11.830	10.458	11.054	12.193	13.591
88.5	9.267	8.646	9.500	10.769	12.089
89.0	6.912	6.679	7.611	8.724	9.656
89.5	4.271	4.245	5.100	6.549	7.611
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-L25-935-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-L25-935-DMA-DIM-UNV_.IES_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	366.84	N.A.	18.00
0-30	719.99	N.A.	35.40
0-40	1089.57	N.A.	53.50
0-60	1707.84	N.A.	83.90
0-80	2007.12	N.A.	98.60
0-90	2036.11	N.A.	100.00
10-90	1935.34	N.A.	95.10
20-40	722.73	N.A.	35.50
20-50	1062.78	N.A.	52.20
40-70	812.62	N.A.	39.90
60-80	299.27	N.A.	14.70
70-80	104.93	N.A.	5.20
80-90	29.00	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	2036.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.78
10-20	266.07
20-30	353.15
30-40	369.58
40-50	340.05
50-60	278.22
60-70	194.35
70-80	104.93
80-90	29.00
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-L25-935-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-L25-935-DMA-DIM-UNV_.IES_.IES

UGR TABLE - CORRECTED

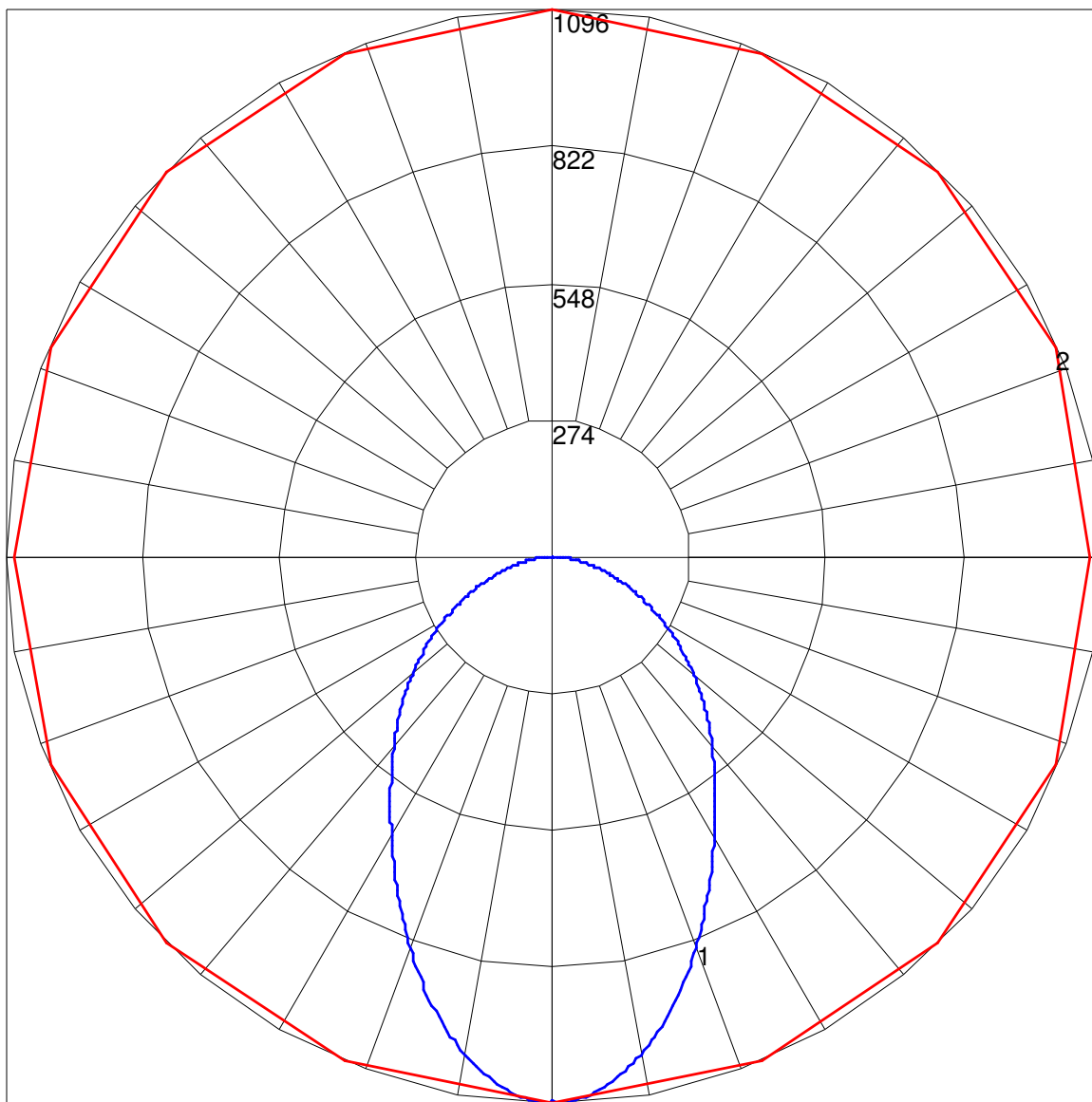
Reflectances

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	11.3	12.9	11.7	13.2	13.5	10.3	11.8	10.6	12.1	12.4
	3H	13.0	14.4	13.4	14.7	15.1	11.9	13.3	12.3	13.6	14.0
	4H	13.6	14.9	14.0	15.3	15.6	12.5	13.8	12.9	14.2	14.5
	6H	14.0	15.2	14.5	15.6	16.0	12.9	14.1	13.4	14.5	14.9
	8H	14.2	15.3	14.6	15.7	16.1	13.1	14.2	13.5	14.6	15.0
	12H	14.3	15.3	14.7	15.7	16.2	13.2	14.3	13.6	14.7	15.1
4H	2H	11.7	13.0	12.1	13.3	13.7	10.8	12.1	11.2	12.4	12.8
	3H	13.6	14.6	14.0	15.0	15.4	12.6	13.7	13.0	14.1	14.5
	4H	14.3	15.3	14.7	15.7	16.1	13.3	14.3	13.8	14.7	15.2
	6H	14.8	15.7	15.3	16.1	16.6	13.9	14.8	14.4	15.2	15.7
	8H	15.0	15.8	15.5	16.2	16.7	14.1	14.9	14.5	15.3	15.8
	12H	15.1	15.8	15.6	16.3	16.8	14.2	14.9	14.7	15.4	15.9
8H	4H	14.5	15.2	14.9	15.7	16.2	13.6	14.4	14.1	14.8	15.3
	6H	15.1	15.8	15.6	16.2	16.7	14.3	14.9	14.8	15.4	15.9
	8H	15.3	15.9	15.8	16.4	16.9	14.5	15.1	15.0	15.6	16.1
	12H	15.5	16.0	16.0	16.5	17.1	14.7	15.2	15.2	15.7	16.3
12H	4H	14.5	15.2	14.9	15.6	16.1	13.6	14.3	14.1	14.8	15.3
	6H	15.1	15.7	15.6	16.2	16.7	14.3	14.9	14.8	15.4	15.9
	8H	15.4	15.9	15.9	16.4	17.0	14.6	15.1	15.1	15.6	16.2

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 1095.526 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.)