

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L25-927-DMA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GENERATED FROM 15746385.02  
[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-22-L25-927-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	1974
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	1935	1677	1971
55	1704	1455	1731
65	1470	1244	1486
75	1199	1036	1230
85	839	634	839

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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	1059.517	1059.517	1059.517	1059.517	1059.517
0.5	1055.470	1060.022	1061.793	1059.770	1055.470
1.0	1054.711	1059.517	1061.034	1059.517	1054.711
1.5	1053.952	1058.505	1060.275	1058.505	1053.952
2.0	1052.688	1057.240	1059.011	1056.987	1052.435
2.5	1050.917	1055.723	1057.240	1055.470	1050.917
3.0	1049.147	1053.699	1055.217	1053.446	1049.147
3.5	1046.870	1051.170	1052.688	1051.170	1046.617
4.0	1044.088	1048.388	1049.905	1048.641	1044.341
4.5	1041.053	1045.353	1046.870	1045.606	1041.559
5.0	1037.512	1041.812	1043.582	1042.317	1038.271
5.5	1033.718	1038.018	1039.788	1039.029	1034.983
6.0	1029.924	1033.718	1035.741	1035.235	1031.442
6.5	1025.371	1029.418	1031.442	1030.936	1027.395
7.0	1020.566	1024.612	1026.636	1026.383	1023.095
7.5	1015.507	1019.554	1021.577	1021.830	1018.542
8.0	1010.449	1013.990	1016.266	1017.025	1013.990
8.5	1004.884	1008.425	1010.954	1011.713	1008.678
9.0	999.067	1002.355	1005.137	1006.149	1003.619
9.5	993.249	996.537	999.067	1000.584	998.055
10.0	987.179	990.214	992.744	994.514	992.238
10.5	980.856	983.638	986.673	988.444	986.673
11.0	974.280	977.062	979.844	982.121	981.109
11.5	967.451	969.980	973.015	975.291	974.786
12.0	960.622	962.898	965.680	968.715	968.462
12.5	953.793	955.563	958.345	961.886	961.886
13.0	946.205	948.228	951.010	954.804	955.310
13.5	939.376	940.640	943.423	947.722	948.734
14.0	932.041	933.052	935.582	940.640	941.905
14.5	924.200	925.212	927.488	933.052	934.823
15.0	916.359	917.371	919.141	925.465	927.741
15.5	908.771	909.277	910.795	917.877	920.406
16.0	900.931	900.931	902.195	910.036	913.071
16.5	892.837	892.837	893.849	901.942	905.483
17.0	884.743	884.237	884.743	893.596	897.642
17.5	876.649	875.638	875.891	885.502	890.308
18.0	868.303	867.038	866.785	876.902	882.467
18.5	859.956	858.186	857.680	868.303	874.373
19.0	851.610	849.080	848.321	859.703	866.279
19.5	843.263	840.228	838.963	850.851	857.933
20.0	834.916	831.122	829.605	841.745	849.839
20.5	826.064	821.764	819.994	832.893	841.492
21.0	817.464	812.659	810.129	823.787	833.399
21.5	808.612	803.553	800.265	814.682	824.799
22.0	800.012	794.448	790.654	805.324	815.947
22.5	791.666	785.089	780.790	796.218	807.600
23.0	782.813	775.731	771.178	786.860	799.000
23.5	774.466	766.626	761.314	777.754	790.401
24.0	766.373	757.520	751.703	768.649	781.801
24.5	757.773	748.162	741.839	759.291	773.455
25.0	749.427	739.056	731.974	749.932	765.108
25.5	741.080	729.951	722.110	740.574	756.761
26.0	732.733	721.099	712.499	731.722	748.921
26.5	724.640	712.246	702.888	722.616	740.321

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**CANDELA TABULATION - (Cont.)**

27.0	716.546	703.394	693.276	713.764	732.480
27.5	708.452	694.541	683.665	704.911	724.387
28.0	700.864	685.942	674.054	696.059	716.293
28.5	692.771	677.342	664.696	687.206	708.452
29.0	685.183	668.742	655.337	678.354	700.611
29.5	677.342	660.396	645.726	669.501	692.518
30.0	669.501	651.796	636.368	660.902	684.677
30.5	661.913	643.450	627.009	652.302	676.836
31.0	654.325	635.103	617.651	643.702	669.248
31.5	646.738	626.756	608.545	635.103	661.407
32.0	638.897	618.663	599.440	626.756	653.820
32.5	631.309	610.569	590.588	618.157	646.232
33.0	623.974	602.222	581.482	609.557	638.391
33.5	616.386	594.381	572.630	601.211	630.803
34.0	609.051	586.035	563.777	592.864	622.962
34.5	601.716	578.194	555.178	584.264	615.627
35.0	594.634	570.100	546.578	575.918	608.040
35.5	587.299	562.260	537.978	567.824	600.199
36.0	580.217	554.419	529.632	559.730	592.864
36.5	573.135	546.578	521.285	551.637	585.529
37.0	566.054	538.990	512.939	543.543	577.941
37.5	558.972	531.402	504.845	535.449	570.353
38.0	552.142	524.067	497.004	527.861	563.018
38.5	545.313	516.732	489.163	520.021	555.683
39.0	538.231	509.145	481.323	512.433	548.601
39.5	531.655	501.810	473.735	504.845	541.519
40.0	524.826	494.728	466.147	497.257	534.437
40.5	517.744	487.646	458.812	489.669	527.355
41.0	510.915	480.564	451.477	482.334	520.273
41.5	504.339	473.482	444.395	475.252	513.444
42.0	497.510	466.906	437.060	467.917	506.615
42.5	490.681	459.824	429.978	461.088	499.786
43.0	483.852	453.247	423.149	454.006	492.957
43.5	477.276	446.418	416.320	447.177	486.128
44.0	470.700	439.842	409.491	440.348	479.299
44.5	464.123	433.266	402.915	433.266	472.470
45.0	457.294	426.690	396.339	426.437	465.894
45.5	450.718	419.861	389.762	419.861	459.065
46.0	444.142	413.538	383.186	413.032	452.236
46.5	437.313	406.962	376.863	406.203	445.660
47.0	430.737	400.385	370.540	399.374	438.578
47.5	423.908	393.809	364.217	392.798	432.002
48.0	417.332	387.233	358.146	386.221	425.172
48.5	411.008	380.910	352.076	379.645	418.343
49.0	404.432	374.334	346.006	373.069	411.767
49.5	397.856	368.011	340.189	366.493	404.685
50.0	391.280	361.435	334.118	359.917	398.109
50.5	384.704	355.111	328.301	353.341	391.280
51.0	378.128	348.788	322.736	347.018	384.704
51.5	371.552	342.212	317.172	340.694	377.875
52.0	365.228	336.142	311.608	334.371	371.299
52.5	358.652	329.818	306.043	328.048	364.723
53.0	352.329	323.748	300.479	321.725	357.894
53.5	345.753	317.425	294.914	315.655	351.317
54.0	339.177	311.608	289.603	309.584	344.741
54.5	333.107	305.537	284.291	303.514	338.165

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**CANDELA TABULATION - (Cont.)**

55.0	326.783	299.467	278.980	297.444	331.842
55.5	320.460	293.650	273.921	291.626	325.772
56.0	314.137	287.832	268.610	285.809	319.448
56.5	307.814	282.015	263.298	279.739	312.872
57.0	301.743	276.451	258.240	273.921	306.802
57.5	295.420	270.633	252.928	268.357	300.479
58.0	289.350	264.816	247.794	262.792	294.156
58.5	283.280	259.251	242.735	256.975	287.832
59.0	276.956	253.687	237.651	251.461	281.509
59.5	270.886	247.971	232.568	245.745	275.439
60.0	264.816	242.280	227.383	240.029	269.116
60.5	258.999	236.564	222.299	234.389	263.045
61.0	253.434	230.898	217.291	228.774	256.975
61.5	247.541	225.334	212.156	223.133	251.031
62.0	241.926	219.972	207.047	217.645	245.163
62.5	236.260	214.686	201.862	212.106	239.447
63.0	230.595	209.475	196.525	206.769	233.503
63.5	224.853	204.138	191.163	201.634	227.610
64.0	219.086	198.852	185.978	196.247	221.692
64.5	213.421	193.642	180.869	191.011	215.748
65.0	207.654	188.432	175.735	185.953	209.880
65.5	201.685	183.297	170.727	180.869	204.189
66.0	195.969	178.188	165.643	176.013	198.473
66.5	190.151	173.104	160.559	171.106	192.529
67.0	184.714	168.071	155.627	166.224	187.091
67.5	179.250	163.088	150.796	161.520	181.577
68.0	173.812	158.232	146.243	156.816	176.190
68.5	168.349	153.426	141.918	152.035	170.828
69.0	163.038	148.646	137.795	147.407	165.693
69.5	157.954	143.967	133.723	142.854	160.609
70.0	152.718	139.338	129.651	138.402	155.374
70.5	147.634	134.659	125.604	133.976	150.239
71.0	142.550	130.030	121.532	129.651	145.257
71.5	137.492	125.503	117.435	125.275	140.350
72.0	132.484	121.051	113.413	120.950	135.317
72.5	127.577	116.600	109.417	116.701	130.385
73.0	122.670	112.224	105.471	112.477	125.478
73.5	117.865	107.823	101.525	108.203	120.672
74.0	113.110	103.498	97.605	103.928	116.018
74.5	108.380	99.123	93.634	99.679	111.162
75.0	103.726	94.798	89.663	95.480	106.407
75.5	99.047	90.472	85.793	91.282	101.627
76.0	94.443	86.122	81.873	87.033	96.897
76.5	89.941	81.822	78.003	82.733	92.167
77.0	85.389	77.573	74.108	78.408	87.488
77.5	80.861	73.299	70.314	74.285	82.809
78.0	76.384	69.226	66.571	70.263	78.231
78.5	71.933	65.255	62.802	66.242	73.754
79.0	67.507	61.259	59.084	62.397	69.151
79.5	63.181	57.263	55.391	58.528	64.724
80.0	58.907	53.393	51.673	54.658	60.323
80.5	54.708	49.625	48.056	50.839	55.998
81.0	50.662	45.881	44.465	47.070	51.825
81.5	46.817	42.214	41.000	43.377	47.753
82.0	42.998	38.647	37.484	39.760	43.832
82.5	39.482	35.258	33.994	36.270	40.089

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**CANDELA TABULATION - (Cont.)**

83.0	36.143	32.122	30.453	32.906	36.548
83.5	33.083	29.239	27.038	29.719	33.184
84.0	30.124	26.583	23.826	26.785	30.098
84.5	27.240	24.079	20.892	24.053	27.215
85.0	24.433	21.727	18.464	21.524	24.433
85.5	21.600	19.324	16.491	19.020	21.752
86.0	18.970	16.971	14.822	16.643	19.096
86.5	16.440	14.695	13.279	14.392	16.719
87.0	14.215	12.520	11.812	12.343	14.569
87.5	12.090	10.572	10.345	10.623	12.646
88.0	10.142	8.903	8.802	9.156	10.851
88.5	8.220	7.335	7.031	7.613	9.055
89.0	5.767	5.286	4.679	5.236	6.778
89.5	2.276	2.504	2.200	2.327	3.162
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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 PHOTOMETRIC FILENAME : FRM-22-L25-927-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-L25-927-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-L25-927-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	355.83	N.A.	18.00
0-30	698.20	N.A.	35.40
0-40	1057.07	N.A.	53.60
0-60	1657.24	N.A.	84.00
0-80	1947.52	N.A.	98.70
0-90	1973.61	N.A.	100.00
10-90	1875.8	N.A.	95.00
20-40	701.24	N.A.	35.50
20-50	1031.47	N.A.	52.30
40-70	788.59	N.A.	40.00
60-80	290.29	N.A.	14.70
70-80	101.87	N.A.	5.20
80-90	26.09	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	1973.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	97.81
10-20	258.02
20-30	342.36
30-40	358.87
40-50	330.24
50-60	269.93
60-70	188.42
70-80	101.87
80-90	26.09
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-22-L25-927-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	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	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-L25-927-DMA-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

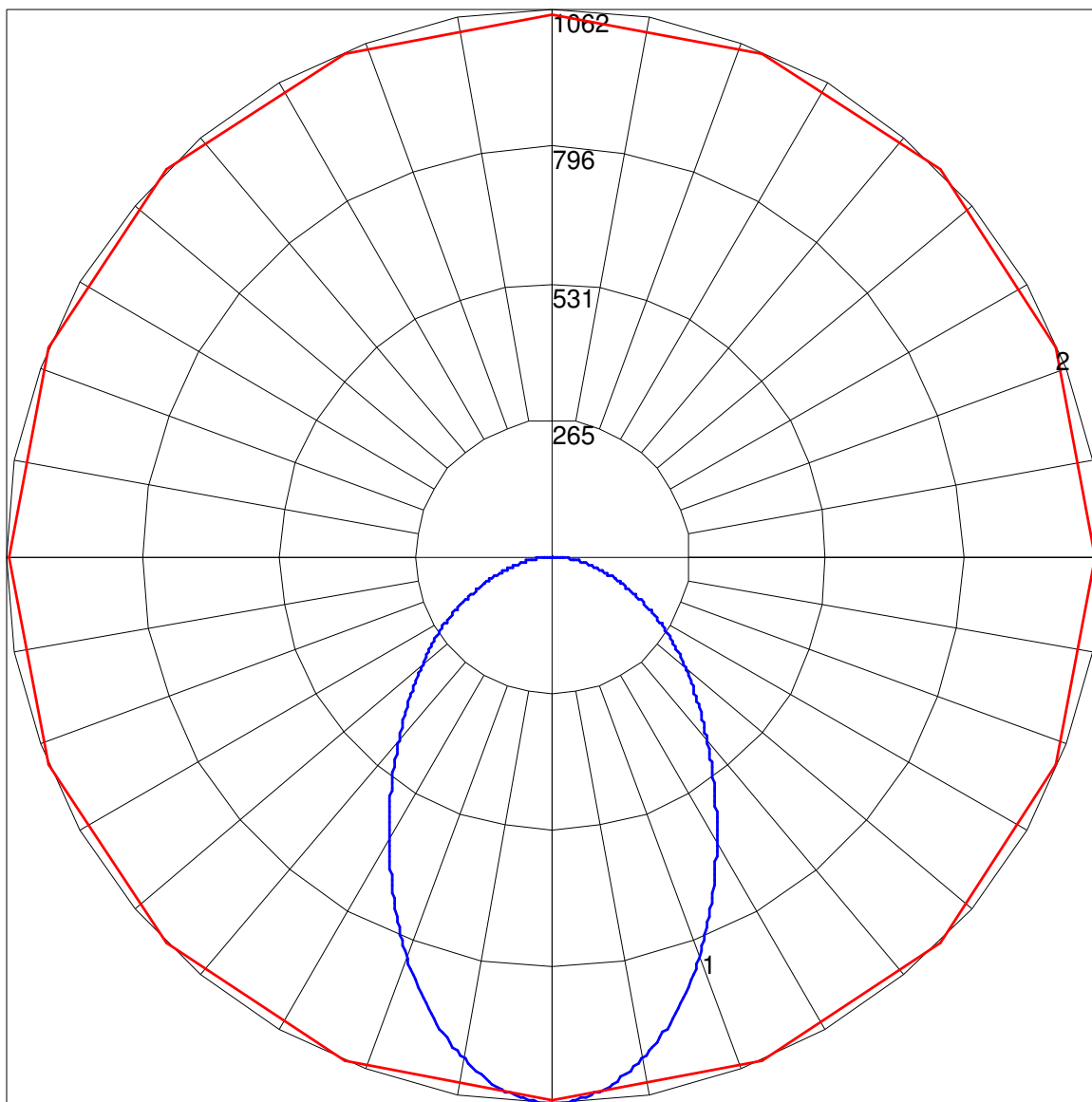
Reflectances

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	13.2	14.7	13.6	15.1	15.4	13.2	14.7	13.6	15.0	15.3
	3H	14.8	16.2	15.2	16.6	16.9	14.8	16.2	15.2	16.5	16.9
	4H	15.4	16.7	15.8	17.1	17.5	15.5	16.8	15.9	17.1	17.5
	6H	15.9	17.1	16.3	17.4	17.8	15.9	17.1	16.3	17.5	17.8
	8H	16.0	17.1	16.4	17.5	17.9	16.0	17.2	16.5	17.5	17.9
	12H	16.0	17.1	16.5	17.5	17.9	16.1	17.2	16.5	17.6	18.0
4H	2H	13.6	14.9	14.0	15.3	15.7	13.6	14.9	14.0	15.3	15.6
	3H	15.5	16.6	15.9	17.0	17.4	15.5	16.6	15.9	17.0	17.4
	4H	16.2	17.2	16.6	17.6	18.0	16.2	17.2	16.6	17.6	18.0
	6H	16.7	17.6	17.2	18.0	18.5	16.8	17.6	17.2	18.1	18.5
	8H	16.9	17.7	17.4	18.1	18.6	16.9	17.7	17.4	18.2	18.6
	12H	17.0	17.7	17.5	18.2	18.7	17.1	17.8	17.5	18.2	18.7
8H	4H	16.4	17.2	16.9	17.7	18.1	16.4	17.2	16.9	17.7	18.1
	6H	17.0	17.7	17.5	18.2	18.7	17.1	17.7	17.6	18.2	18.7
	8H	17.2	17.8	17.8	18.3	18.8	17.3	17.9	17.8	18.4	18.9
	12H	17.4	17.9	17.9	18.4	19.0	17.5	18.0	18.0	18.5	19.0
12H	4H	16.4	17.1	16.9	17.6	18.1	16.5	17.2	16.9	17.6	18.1
	6H	17.1	17.7	17.6	18.1	18.7	17.1	17.7	17.6	18.2	18.7
	8H	17.3	17.8	17.8	18.3	18.9	17.4	17.9	17.9	18.4	18.9

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 1061.793 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.)