

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L25-935-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-L25-935-DMA-DIM-UNV  
[LUMINAIRE] Recessed 2 x 2 narrow aperture LED luminaire  
[MORE] with center frame driver housing  
[LAMP] LED  
[ \_SEARCH\_SOURCE TYPE] LED  
[ \_SEARCH\_APPLICATION] INDOOR  
[ \_SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	2007	1740	2045
55	1768	1510	1796
65	1525	1291	1541
75	1244	1075	1276
85	870	657	870

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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	1099.249	1099.249	1099.249	1099.249	1099.249
0.5	1095.050	1099.774	1101.611	1099.511	1095.050
1.0	1094.263	1099.249	1100.823	1099.249	1094.263
1.5	1093.476	1098.199	1100.036	1098.199	1093.476
2.0	1092.164	1096.887	1098.724	1096.625	1091.901
2.5	1090.327	1095.313	1096.887	1095.050	1090.327
3.0	1088.490	1093.213	1094.788	1092.951	1088.490
3.5	1086.128	1090.589	1092.164	1090.589	1085.866
4.0	1083.242	1087.703	1089.277	1087.965	1083.504
4.5	1080.093	1084.554	1086.128	1084.816	1080.618
5.0	1076.419	1080.880	1082.717	1081.405	1077.206
5.5	1072.483	1076.944	1078.781	1077.993	1073.795
6.0	1068.547	1072.483	1074.582	1074.057	1070.121
6.5	1063.823	1068.022	1070.121	1069.596	1065.922
7.0	1058.837	1063.036	1065.135	1064.873	1061.461
7.5	1053.589	1057.788	1059.887	1060.149	1056.738
8.0	1048.341	1052.015	1054.376	1055.163	1052.015
8.5	1042.568	1046.241	1048.866	1049.653	1046.504
9.0	1036.532	1039.944	1042.830	1043.880	1041.256
9.5	1030.497	1033.908	1036.532	1038.107	1035.483
10.0	1024.199	1027.348	1029.972	1031.809	1029.447
10.5	1017.638	1020.525	1023.674	1025.511	1023.674
11.0	1010.816	1013.702	1016.589	1018.950	1017.901
11.5	1003.731	1006.355	1009.504	1011.865	1011.340
12.0	996.645	999.007	1001.894	1005.043	1004.780
12.5	989.560	991.397	994.284	997.957	997.957
13.0	981.688	983.787	986.674	990.610	991.135
13.5	974.603	975.915	978.801	983.262	984.312
14.0	966.993	968.042	970.666	975.915	977.227
14.5	958.858	959.907	962.269	968.042	969.879
15.0	950.723	951.773	953.610	960.170	962.532
15.5	942.851	943.375	944.950	952.298	954.922
16.0	934.716	934.716	936.028	944.163	947.312
16.5	926.319	926.319	927.368	935.765	939.439
17.0	917.921	917.397	917.921	927.106	931.304
17.5	909.524	908.475	908.737	918.709	923.694
18.0	900.865	899.552	899.290	909.787	915.560
18.5	892.205	890.368	889.843	900.865	907.162
19.0	883.545	880.921	880.134	891.942	898.765
19.5	874.886	871.737	870.425	882.758	890.106
20.0	866.226	862.290	860.715	873.311	881.708
20.5	857.042	852.580	850.744	864.127	873.049
21.0	848.119	843.134	840.509	854.680	864.652
21.5	838.935	833.687	830.275	845.233	855.729
22.0	830.013	824.240	820.304	835.524	846.545
22.5	821.353	814.531	810.070	826.077	837.885
23.0	812.169	804.821	800.098	816.367	828.963
23.5	803.509	795.374	789.864	806.921	820.041
24.0	795.112	785.928	779.892	797.474	811.119
24.5	786.190	776.218	769.658	787.764	802.460
25.0	777.530	766.771	759.424	778.055	793.800
25.5	768.871	757.325	749.190	768.346	785.140
26.0	760.211	748.140	739.218	759.161	777.005
26.5	751.814	738.956	729.246	749.715	768.083

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**CANDELA TABULATION - (Cont.)**

27.0	743.417	729.771	719.275	740.530	759.949
27.5	735.019	720.587	709.303	731.346	751.551
28.0	727.147	711.665	699.331	722.161	743.154
28.5	718.750	702.743	689.622	712.977	735.019
29.0	710.877	693.821	679.913	703.792	726.885
29.5	702.743	685.161	669.941	694.608	718.487
30.0	694.608	676.239	660.232	685.686	710.353
30.5	686.735	667.579	650.522	676.764	702.218
31.0	678.863	658.920	640.813	667.842	694.345
31.5	670.991	650.260	631.366	658.920	686.211
32.0	662.856	641.863	621.919	650.260	678.338
32.5	654.983	633.465	612.735	641.338	670.466
33.0	647.373	624.806	603.288	632.416	662.331
33.5	639.501	616.671	594.103	623.756	654.459
34.0	631.891	608.011	584.919	615.097	646.324
34.5	624.281	599.877	575.997	606.175	638.714
35.0	616.933	591.479	567.075	597.515	630.841
35.5	609.323	583.345	558.153	589.118	622.707
36.0	601.976	575.210	549.493	580.720	615.097
36.5	594.628	567.075	540.834	572.323	607.487
37.0	587.281	559.203	532.174	563.926	599.614
37.5	579.933	551.330	523.777	555.529	591.742
38.0	572.848	543.720	515.642	547.656	584.132
38.5	565.763	536.110	507.507	539.522	576.522
39.0	558.415	528.238	499.372	531.649	569.174
39.5	551.593	520.628	491.500	523.777	561.827
40.0	544.507	513.280	483.628	515.904	554.479
40.5	537.160	505.933	476.018	508.032	547.132
41.0	530.075	498.585	468.408	500.422	539.784
41.5	523.252	491.238	461.060	493.074	532.699
42.0	516.167	484.415	453.450	485.464	525.614
42.5	509.082	477.067	446.102	478.379	518.528
43.0	501.996	470.244	439.017	471.032	511.443
43.5	495.174	463.159	431.932	463.947	504.358
44.0	488.351	456.337	424.847	456.861	497.273
44.5	481.528	449.514	418.024	449.514	490.188
45.0	474.443	442.691	411.201	442.429	483.365
45.5	467.620	435.606	404.379	435.606	476.280
46.0	460.798	429.046	397.556	428.521	469.195
46.5	453.712	422.223	390.996	421.436	462.372
47.0	446.890	415.400	384.435	414.350	455.024
47.5	439.805	408.577	377.875	407.528	448.202
48.0	432.982	401.755	371.577	400.705	441.117
48.5	426.421	395.194	365.279	393.882	434.031
49.0	419.599	388.372	358.981	387.059	427.209
49.5	412.776	381.811	352.946	380.237	419.861
50.0	405.953	374.988	346.648	373.414	413.038
50.5	399.130	368.428	340.612	366.591	405.953
51.0	392.308	361.868	334.839	360.031	399.130
51.5	385.485	355.045	329.066	353.471	392.045
52.0	378.925	348.747	323.293	346.910	385.223
52.5	372.102	342.187	317.520	340.350	378.400
53.0	365.542	335.889	311.747	333.790	371.315
53.5	358.719	329.329	305.974	327.492	364.492
54.0	351.896	323.293	300.463	321.194	357.669
54.5	345.598	316.995	294.952	314.896	350.846

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**CANDELA TABULATION - (Cont.)**

55.0	339.038	310.697	289.442	308.598	344.286
55.5	332.478	304.662	284.193	302.562	337.988
56.0	325.917	298.626	278.683	296.527	331.428
56.5	319.357	292.591	273.172	290.229	324.605
57.0	313.059	286.818	267.924	284.193	318.307
57.5	306.499	280.782	262.413	278.420	311.747
58.0	300.201	274.747	257.086	272.647	305.187
58.5	293.903	268.974	251.838	266.612	298.626
59.0	287.342	263.200	246.563	260.891	292.066
59.5	281.045	257.270	241.289	254.961	285.768
60.0	274.747	251.366	235.909	249.030	279.208
60.5	268.711	245.435	230.635	243.178	272.910
61.0	262.938	239.557	225.439	237.353	266.612
61.5	256.824	233.784	220.112	231.501	260.445
62.0	250.998	228.221	214.811	225.807	254.357
62.5	245.120	222.736	209.432	220.060	248.427
63.0	239.242	217.331	203.895	214.523	242.260
63.5	233.285	211.794	198.332	209.196	236.146
64.0	227.302	206.309	192.952	203.606	230.005
64.5	221.424	200.904	187.652	198.174	223.838
65.0	215.441	195.498	182.325	192.926	217.750
65.5	209.248	190.171	177.129	187.652	211.846
66.0	203.318	184.870	171.854	182.613	205.916
66.5	197.282	179.596	166.580	177.523	199.749
67.0	191.640	174.374	161.463	172.458	194.107
67.5	185.972	169.204	156.451	167.577	188.386
68.0	180.330	164.166	151.727	162.696	182.797
68.5	174.662	159.180	147.240	157.737	177.234
69.0	169.152	154.220	142.963	152.934	171.907
69.5	163.877	149.366	138.738	148.211	166.632
70.0	158.445	144.563	134.513	143.593	161.200
70.5	153.171	139.709	130.314	139.000	155.873
71.0	147.896	134.907	126.090	134.513	150.704
71.5	142.648	130.209	121.838	129.973	145.613
72.0	137.452	125.591	117.666	125.486	140.391
72.5	132.361	120.972	113.520	121.077	135.274
73.0	127.270	116.433	109.426	116.695	130.183
73.5	122.285	111.867	105.333	112.260	125.197
74.0	117.351	107.379	101.265	107.826	120.369
74.5	112.444	102.840	97.145	103.417	115.331
75.0	107.616	98.352	93.025	99.061	110.397
75.5	102.761	93.865	89.011	94.705	105.438
76.0	97.985	89.352	84.943	90.296	100.530
76.5	93.314	84.891	80.928	85.835	95.623
77.0	88.591	80.482	76.887	81.348	90.769
77.5	83.894	76.047	72.951	77.071	85.914
78.0	79.249	71.822	69.067	72.898	81.164
78.5	74.630	67.703	65.157	68.726	76.520
79.0	70.038	63.556	61.300	64.737	71.744
79.5	65.551	59.410	57.468	60.722	67.152
80.0	61.116	55.395	53.611	56.707	62.586
80.5	56.760	51.485	49.859	52.745	58.098
81.0	52.561	47.602	46.132	48.835	53.768
81.5	48.573	43.797	42.537	45.004	49.544
82.0	44.610	40.097	38.890	41.251	45.476
82.5	40.963	36.580	35.268	37.630	41.592

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**CANDELA TABULATION - (Cont.)**

83.0	37.499	33.326	31.595	34.140	37.919
83.5	34.324	30.335	28.052	30.834	34.429
84.0	31.253	27.580	24.719	27.790	31.227
84.5	28.262	24.982	21.675	24.955	28.236
85.0	25.349	22.541	19.156	22.331	25.349
85.5	22.410	20.048	17.109	19.733	22.568
86.0	19.681	17.608	15.377	17.267	19.812
86.5	17.057	15.246	13.777	14.931	17.346
87.0	14.748	12.989	12.255	12.806	15.115
87.5	12.543	10.969	10.733	11.021	13.121
88.0	10.523	9.237	9.132	9.499	11.258
88.5	8.528	7.610	7.295	7.899	9.394
89.0	5.983	5.484	4.855	5.432	7.033
89.5	2.362	2.598	2.283	2.414	3.280
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-22-L25-935-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-L25-935-DMA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	369.18	N.A.	18.00
0-30	724.38	N.A.	35.40
0-40	1096.71	N.A.	53.60
0-60	1719.38	N.A.	84.00
0-80	2020.56	N.A.	98.70
0-90	2047.63	N.A.	100.00
10-90	1946.14	N.A.	95.00
20-40	727.53	N.A.	35.50
20-50	1070.15	N.A.	52.30
40-70	818.16	N.A.	40.00
60-80	301.17	N.A.	14.70
70-80	105.69	N.A.	5.20
80-90	27.07	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	2047.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.48
10-20	267.69
20-30	355.20
30-40	372.33
40-50	342.62
50-60	280.06
60-70	195.49
70-80	105.69
80-90	27.07
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-L25-935-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-L25-935-DMA-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

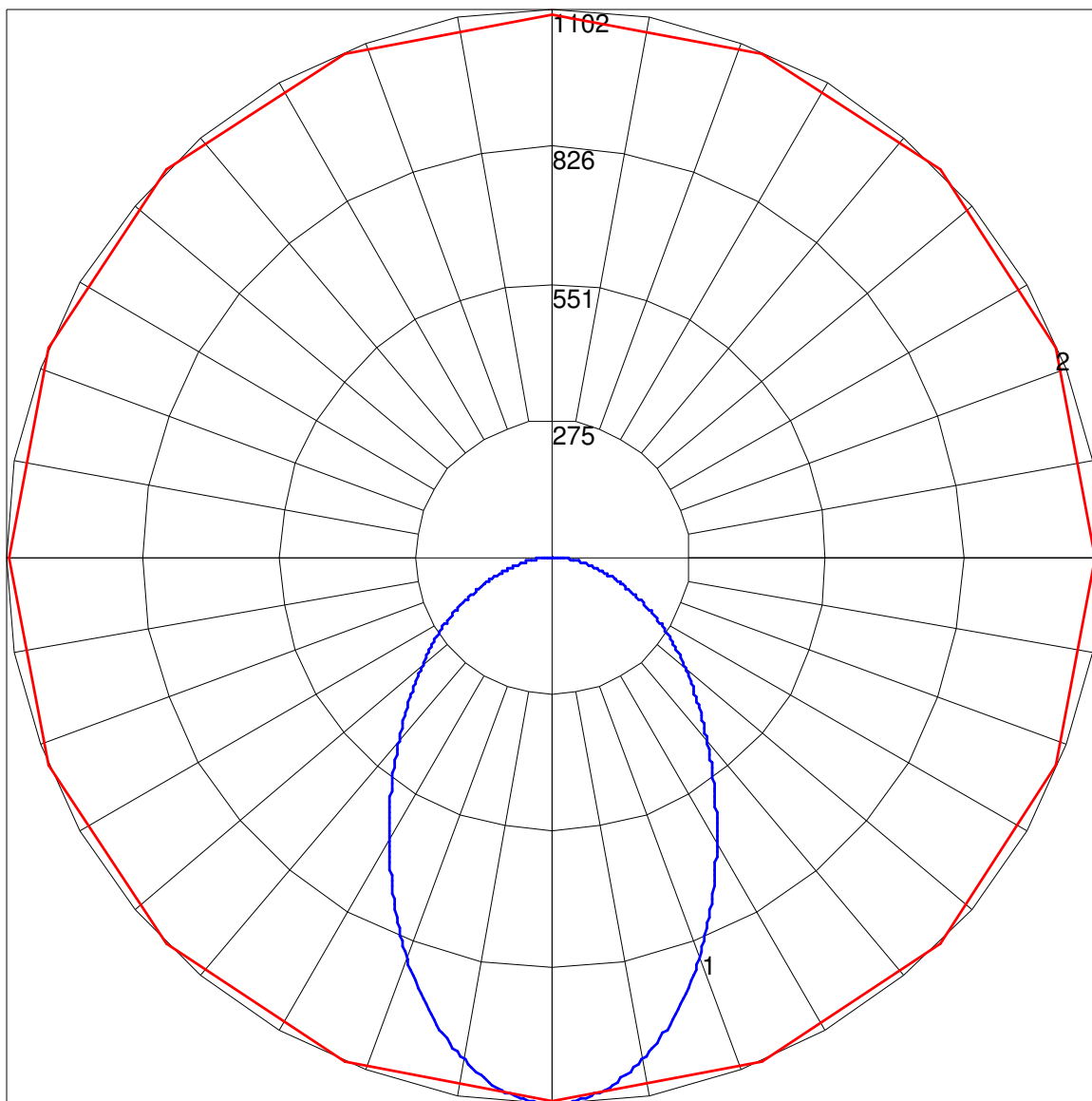
Reflectances

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	13.3	14.8	13.7	15.2	15.5	13.3	14.8	13.7	15.1	15.4
	3H	14.9	16.3	15.3	16.7	17.0	14.9	16.3	15.3	16.7	17.0
	4H	15.5	16.8	15.9	17.2	17.6	15.6	16.9	16.0	17.2	17.6
	6H	16.0	17.2	16.4	17.5	17.9	16.0	17.2	16.4	17.6	18.0
	8H	16.1	17.2	16.5	17.6	18.0	16.1	17.3	16.6	17.6	18.0
	12H	16.1	17.2	16.6	17.6	18.0	16.2	17.3	16.6	17.7	18.1
4H	2H	13.7	15.0	14.1	15.4	15.8	13.7	15.0	14.1	15.4	15.7
	3H	15.6	16.7	16.0	17.1	17.5	15.6	16.7	16.0	17.1	17.5
	4H	16.3	17.3	16.7	17.7	18.1	16.3	17.3	16.7	17.7	18.1
	6H	16.8	17.7	17.3	18.1	18.6	16.9	17.7	17.3	18.2	18.6
	8H	17.0	17.8	17.5	18.2	18.7	17.0	17.8	17.5	18.3	18.7
	12H	17.1	17.8	17.6	18.3	18.8	17.2	17.9	17.6	18.3	18.8
8H	4H	16.5	17.3	17.0	17.8	18.2	16.5	17.3	17.0	17.8	18.2
	6H	17.1	17.8	17.6	18.3	18.8	17.2	17.8	17.7	18.3	18.8
	8H	17.3	17.9	17.9	18.4	18.9	17.4	18.0	17.9	18.5	19.0
	12H	17.5	18.0	18.0	18.5	19.1	17.6	18.1	18.1	18.6	19.1
12H	4H	16.5	17.2	17.0	17.7	18.2	16.6	17.3	17.0	17.7	18.2
	6H	17.2	17.8	17.7	18.2	18.8	17.2	17.8	17.7	18.3	18.8
	8H	17.4	17.9	17.9	18.4	19.0	17.5	18.0	18.0	18.5	19.0

Maximum UGR = 19.1

POLAR GRAPH



Maximum Candela = 1101.611 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.)