

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-22-L25-930-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-L25-930-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	2023
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	1983	1719	2020
55	1747	1491	1774
65	1507	1275	1523
75	1229	1062	1261
85	860	650	860

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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	1086.005	1086.005	1086.005	1086.005	1086.005
0.5	1081.857	1086.523	1088.338	1086.264	1081.857
1.0	1081.079	1086.005	1087.560	1086.005	1081.079
1.5	1080.301	1084.968	1086.783	1084.968	1080.301
2.0	1079.005	1083.672	1085.486	1083.412	1078.746
2.5	1077.190	1082.116	1083.672	1081.857	1077.190
3.0	1075.376	1080.042	1081.598	1079.783	1075.376
3.5	1073.042	1077.450	1079.005	1077.450	1072.783
4.0	1070.191	1074.598	1076.153	1074.857	1070.450
4.5	1067.080	1071.487	1073.042	1071.746	1067.598
5.0	1063.450	1067.857	1069.672	1068.376	1064.228
5.5	1059.561	1063.969	1065.783	1065.006	1060.858
6.0	1055.672	1059.561	1061.635	1061.117	1057.228
6.5	1051.006	1055.154	1057.228	1056.709	1053.080
7.0	1046.080	1050.228	1052.302	1052.043	1048.673
7.5	1040.895	1045.043	1047.117	1047.376	1044.006
8.0	1035.710	1039.340	1041.673	1042.451	1039.340
8.5	1030.007	1033.636	1036.229	1037.006	1033.895
9.0	1024.044	1027.414	1030.266	1031.303	1028.710
9.5	1018.081	1021.451	1024.044	1025.599	1023.007
10.0	1011.859	1014.970	1017.563	1019.377	1017.044
10.5	1005.378	1008.229	1011.340	1013.155	1011.340
11.0	998.637	1001.489	1004.341	1006.674	1005.637
11.5	991.637	994.230	997.341	999.674	999.156
12.0	984.638	986.971	989.823	992.934	992.674
12.5	977.638	979.453	982.304	985.934	985.934
13.0	969.860	971.934	974.786	978.675	979.193
13.5	962.860	964.157	967.008	971.416	972.453
14.0	955.342	956.379	958.972	964.157	965.453
14.5	947.305	948.342	950.676	956.379	958.194
15.0	939.269	940.306	942.120	948.602	950.935
15.5	931.491	932.009	933.565	940.824	943.417
16.0	923.454	923.454	924.750	932.787	935.898
16.5	915.158	915.158	916.195	924.491	928.121
17.0	906.862	906.344	906.862	915.936	920.084
17.5	898.566	897.529	897.788	907.640	912.566
18.0	890.011	888.714	888.455	898.825	904.529
18.5	881.455	879.641	879.122	890.011	896.233
19.0	872.900	870.308	869.530	881.196	887.937
19.5	864.345	861.234	859.938	872.122	879.381
20.0	855.790	851.901	850.345	862.789	871.085
20.5	846.716	842.308	840.494	853.716	862.530
21.0	837.901	832.975	830.383	844.382	854.234
21.5	828.827	823.642	820.272	835.049	845.419
22.0	820.013	814.309	810.420	825.457	836.346
22.5	811.457	804.717	800.310	816.124	827.790
23.0	802.384	795.125	790.458	806.532	818.976
23.5	793.828	785.792	780.347	797.199	810.161
24.0	785.532	776.459	770.496	787.866	801.347
24.5	776.718	766.866	760.385	778.273	792.791
25.0	768.162	757.533	750.274	768.681	784.236
25.5	759.607	748.200	740.163	759.089	775.681
26.0	751.052	739.126	730.312	750.015	767.644
26.5	742.756	730.052	720.460	740.682	758.829

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CANDELA TABULATION - (Cont.)

27.0	734.460	720.979	710.609	731.608	750.793
27.5	726.164	711.905	700.757	722.534	742.497
28.0	718.386	703.090	690.905	713.460	734.201
28.5	710.090	694.276	681.313	704.387	726.164
29.0	702.313	685.461	671.721	695.313	718.127
29.5	694.276	676.906	661.869	686.239	709.831
30.0	686.239	668.091	652.277	677.424	701.794
30.5	678.461	659.536	642.685	668.610	693.757
31.0	670.684	650.981	633.092	659.795	685.980
31.5	662.906	642.425	623.759	650.981	677.943
32.0	654.870	634.129	614.426	642.425	670.165
32.5	647.092	625.833	605.352	633.611	662.388
33.0	639.574	617.278	596.019	624.796	654.351
33.5	631.796	609.241	586.946	616.241	646.573
34.0	624.278	600.686	577.872	607.686	638.537
34.5	616.760	592.649	569.057	598.871	631.018
35.0	609.500	584.353	560.243	590.316	623.241
35.5	601.982	576.316	551.428	582.020	615.204
36.0	594.723	568.279	542.873	573.724	607.686
36.5	587.464	560.243	534.318	565.428	600.167
37.0	580.205	552.465	525.762	557.132	592.390
37.5	572.946	544.688	517.466	548.836	584.612
38.0	565.946	537.169	509.429	541.058	577.094
38.5	558.946	529.651	501.393	533.021	569.576
39.0	551.687	521.873	493.356	525.244	562.317
39.5	544.947	514.355	485.578	517.466	555.058
40.0	537.947	507.096	477.801	509.689	547.799
40.5	530.688	499.837	470.282	501.911	540.540
41.0	523.688	492.578	462.764	494.393	533.281
41.5	516.948	485.319	455.505	487.134	526.281
42.0	509.948	478.578	447.987	479.615	519.281
42.5	502.948	471.319	440.728	472.616	512.281
43.0	495.948	464.579	433.728	465.357	505.281
43.5	489.208	457.579	426.728	458.357	498.282
44.0	482.467	450.839	419.728	451.357	491.282
44.5	475.727	444.098	412.988	444.098	484.282
45.0	468.727	437.357	406.247	437.098	477.541
45.5	461.986	430.358	399.507	430.358	470.542
46.0	455.246	423.876	392.766	423.358	463.542
46.5	448.246	417.136	386.285	416.358	456.801
47.0	441.505	410.395	379.804	409.358	449.542
47.5	434.506	403.655	373.322	402.618	442.802
48.0	427.765	396.914	367.100	395.877	435.802
48.5	421.284	390.433	360.878	389.137	428.802
49.0	414.543	383.692	354.656	382.396	422.062
49.5	407.803	377.211	348.693	375.656	414.803
50.0	401.062	370.471	342.471	368.915	408.062
50.5	394.322	363.989	336.509	362.174	401.062
51.0	387.581	357.508	330.805	355.693	394.322
51.5	380.841	350.767	325.101	349.212	387.322
52.0	374.359	344.545	319.398	342.731	380.581
52.5	367.619	338.064	313.694	336.249	373.841
53.0	361.137	331.842	307.991	329.768	366.841
53.5	354.397	325.361	302.287	323.546	360.100
54.0	347.656	319.398	296.843	317.324	353.360
54.5	341.434	313.176	291.399	311.102	346.619

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CANDELA TABULATION - (Cont.)

55.0	334.953	306.954	285.955	304.880	340.138
55.5	328.472	300.991	280.769	298.917	333.916
56.0	321.990	295.028	275.325	292.954	327.435
56.5	315.509	289.066	269.881	286.732	320.694
57.0	309.287	283.362	264.696	280.769	314.472
57.5	302.806	277.399	259.252	275.066	307.991
58.0	296.584	271.436	253.989	269.362	301.510
58.5	290.362	265.733	248.804	263.400	295.028
59.0	283.880	260.029	243.593	257.748	288.547
59.5	277.658	254.170	238.382	251.889	282.325
60.0	271.436	248.337	233.067	246.030	275.844
60.5	265.474	242.478	227.856	240.248	269.622
61.0	259.770	236.671	222.723	234.493	263.400
61.5	253.730	230.967	217.460	228.712	257.307
62.0	247.974	225.471	212.223	223.086	251.293
62.5	242.167	220.053	206.909	217.408	245.433
63.0	236.360	214.712	201.438	211.938	239.341
63.5	230.475	209.242	195.942	206.675	233.301
64.0	224.564	203.824	190.628	201.153	227.234
64.5	218.756	198.483	185.391	195.787	221.142
65.0	212.846	193.142	180.128	190.602	215.127
65.5	206.727	187.880	174.995	185.391	209.294
66.0	200.868	182.643	169.784	180.413	203.435
66.5	194.905	177.432	164.573	175.384	197.342
67.0	189.331	172.273	159.518	170.380	191.768
67.5	183.732	167.165	154.566	165.558	186.117
68.0	178.158	162.188	149.899	160.736	180.595
68.5	172.558	157.262	145.466	155.836	175.099
69.0	167.114	152.362	141.240	151.092	169.836
69.5	161.903	147.566	137.066	146.425	164.625
70.0	156.536	142.822	132.892	141.862	159.258
70.5	151.325	138.026	128.744	137.326	153.995
71.0	146.114	133.281	124.570	132.892	148.888
71.5	140.929	128.641	120.371	128.407	143.859
72.0	135.796	124.078	116.248	123.974	138.700
72.5	130.767	119.515	112.152	119.619	133.644
73.0	125.737	115.030	108.108	115.289	128.615
73.5	120.811	110.519	104.064	110.908	123.689
74.0	115.937	106.086	100.045	106.526	118.919
74.5	111.089	101.601	95.975	102.171	113.941
75.0	106.319	97.167	91.905	97.867	109.067
75.5	101.523	92.734	87.938	93.564	104.167
76.0	96.805	88.275	83.920	89.208	99.319
76.5	92.190	83.868	79.953	84.801	94.471
77.0	87.523	79.512	75.961	80.368	89.675
77.5	82.883	75.131	72.072	76.142	84.879
78.0	78.294	70.957	68.235	72.020	80.187
78.5	73.731	66.887	64.372	67.898	75.598
79.0	69.194	62.791	60.561	63.957	70.879
79.5	64.761	58.695	56.776	59.991	66.342
80.0	60.380	54.728	52.965	56.024	61.832
80.5	56.076	50.865	49.258	52.110	57.398
81.0	51.928	47.028	45.576	48.247	53.121
81.5	47.987	43.269	42.025	44.462	48.947
82.0	44.073	39.614	38.421	40.754	44.928
82.5	40.469	36.140	34.843	37.177	41.091

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CANDELA TABULATION - (Cont.)

83.0	37.047	32.925	31.214	33.729	37.462
83.5	33.910	29.969	27.714	30.462	34.014
84.0	30.877	27.247	24.422	27.455	30.851
84.5	27.921	24.681	21.414	24.655	27.895
85.0	25.044	22.270	18.925	22.062	25.044
85.5	22.140	19.807	16.903	19.496	22.296
86.0	19.444	17.396	15.192	17.059	19.573
86.5	16.851	15.063	13.611	14.751	17.137
87.0	14.570	12.833	12.107	12.651	14.933
87.5	12.392	10.837	10.603	10.889	12.963
88.0	10.396	9.126	9.022	9.385	11.122
88.5	8.426	7.518	7.207	7.803	9.281
89.0	5.911	5.418	4.796	5.367	6.948
89.5	2.333	2.567	2.255	2.385	3.241
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-L25-930-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-L25-930-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	364.73	N.A.	18.00
0-30	715.65	N.A.	35.40
0-40	1083.5	N.A.	53.60
0-60	1698.67	N.A.	84.00
0-80	1996.21	N.A.	98.70
0-90	2022.96	N.A.	100.00
10-90	1922.7	N.A.	95.00
20-40	718.77	N.A.	35.50
20-50	1057.26	N.A.	52.30
40-70	808.31	N.A.	40.00
60-80	297.54	N.A.	14.70
70-80	104.41	N.A.	5.20
80-90	26.74	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	2022.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.26
10-20	264.47
20-30	350.92
30-40	367.84
40-50	338.49
50-60	276.68
60-70	193.13
70-80	104.41
80-90	26.74
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-L25-930-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	74	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-L25-930-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

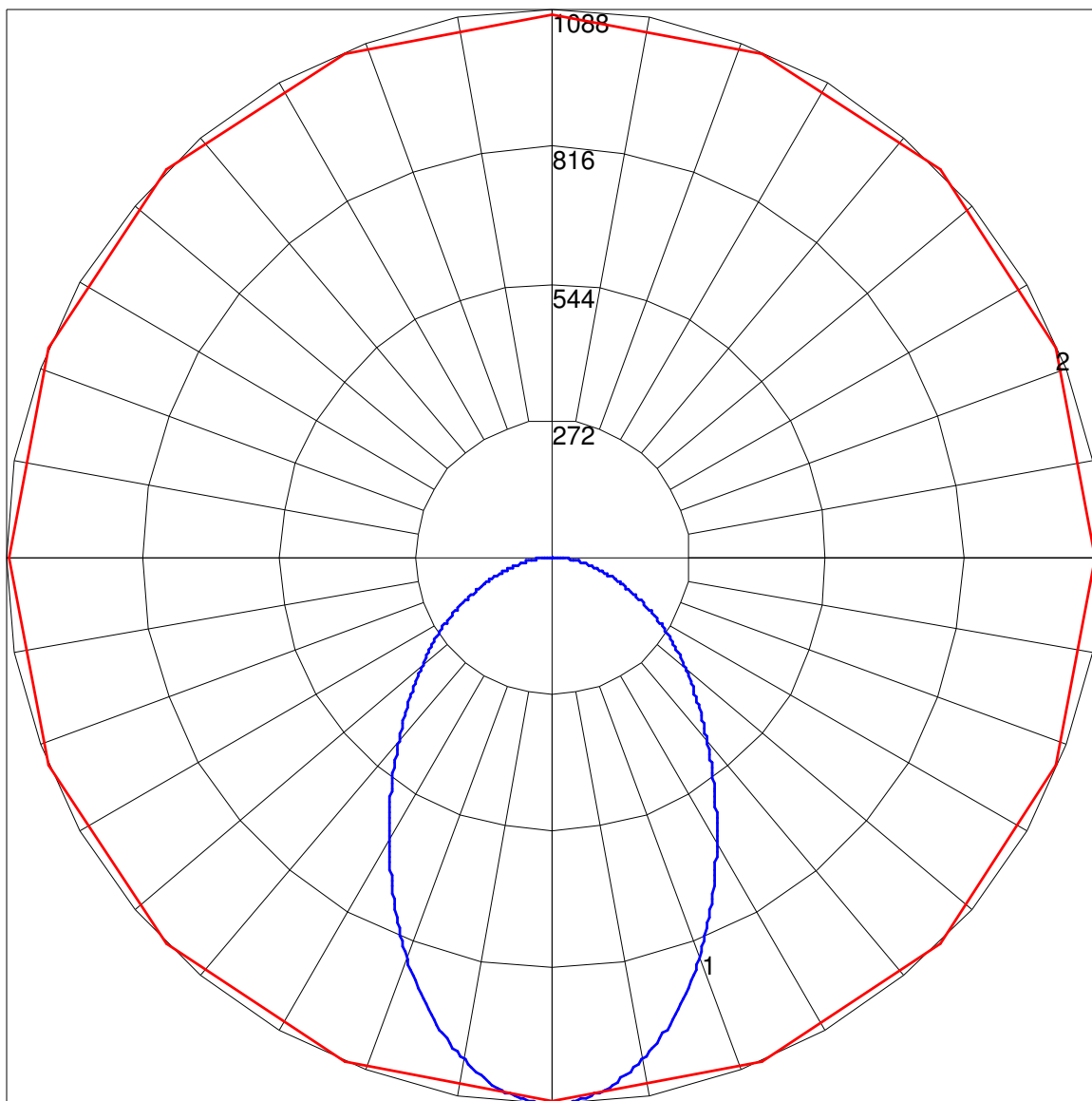
Reflectances

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	13.6	15.1	15.4
	3H	14.9	16.3	15.3	16.7	17.0	14.9	16.3	15.3	16.6	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	17.9
	8H	16.1	17.2	16.5	17.6	18.0	16.1	17.3	16.5	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	17.1	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	16.5	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 = 1088.338 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.)