

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-827-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-L25-827-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	2380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	1271	981	1043
55	1127	849	917
65	974	729	789
75	786	604	657
85	579	434	512

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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	1275.170	1275.170	1275.170	1275.170	1275.170
0.5	1260.346	1273.960	1278.196	1277.288	1280.313
1.0	1259.741	1273.355	1277.591	1276.683	1279.406
1.5	1259.136	1272.448	1276.683	1275.170	1278.196
2.0	1257.926	1271.237	1275.170	1273.355	1276.078
2.5	1256.413	1269.422	1273.053	1270.935	1273.658
3.0	1254.901	1267.607	1270.632	1268.212	1270.935
3.5	1252.480	1265.187	1267.910	1264.884	1267.607
4.0	1250.060	1262.464	1264.582	1261.254	1263.674
4.5	1247.337	1259.439	1260.951	1257.018	1259.136
5.0	1244.312	1256.111	1257.018	1252.480	1254.598
5.5	1240.984	1252.178	1252.480	1247.337	1249.455
6.0	1237.354	1247.942	1247.337	1242.194	1243.405
6.5	1233.118	1244.010	1241.892	1236.144	1237.656
7.0	1228.883	1239.472	1236.446	1230.093	1231.001
7.5	1224.648	1234.329	1230.396	1223.740	1224.042
8.0	1219.807	1228.883	1224.345	1216.782	1217.084
8.5	1214.664	1223.437	1217.387	1209.218	1209.521
9.0	1209.521	1217.689	1210.731	1201.655	1201.655
9.5	1204.378	1211.639	1203.773	1194.092	1193.789
10.0	1198.630	1205.286	1196.210	1185.924	1185.318
10.5	1192.882	1198.932	1188.646	1177.453	1176.243
11.0	1186.831	1191.974	1180.478	1168.679	1167.469
11.5	1180.780	1185.016	1172.310	1159.603	1158.393
12.0	1174.427	1177.755	1163.839	1150.225	1149.015
12.5	1167.772	1170.192	1155.065	1140.544	1139.636
13.0	1161.116	1162.629	1146.292	1130.863	1129.955
13.5	1154.158	1154.763	1137.216	1121.182	1120.577
14.0	1147.199	1146.594	1127.837	1110.896	1110.291
14.5	1139.939	1138.729	1118.156	1100.610	1099.702
15.0	1132.678	1130.560	1108.475	1089.719	1089.416
15.5	1125.417	1121.787	1098.492	1079.130	1078.827
16.0	1117.854	1113.316	1088.508	1068.541	1067.936
16.5	1110.291	1104.543	1077.920	1057.348	1057.045
17.0	1102.727	1095.467	1067.331	1046.456	1045.851
17.5	1094.862	1086.088	1056.743	1035.263	1034.658
18.0	1086.693	1076.710	1045.851	1023.767	1023.162
18.5	1078.222	1067.331	1034.658	1012.270	1011.665
19.0	1070.054	1057.953	1023.767	1000.774	1000.169
19.5	1061.583	1048.272	1012.573	989.278	988.976
20.0	1053.112	1038.591	1001.077	977.177	977.177
20.5	1044.641	1028.607	989.581	965.681	965.681
21.0	1035.868	1018.624	977.782	953.579	954.184
21.5	1026.792	1008.640	965.983	941.781	942.386
22.0	1017.716	998.657	954.184	929.982	930.889
22.5	1008.943	988.673	942.386	917.881	919.091
23.0	1000.169	978.387	930.587	906.082	907.595
23.5	991.396	967.798	918.486	893.981	896.098
24.0	982.622	957.815	906.687	881.879	884.602
24.5	973.546	947.226	894.888	870.383	873.408
25.0	964.470	936.940	883.089	858.584	862.215
25.5	955.697	926.654	870.988	847.088	851.021
26.0	946.621	916.368	859.492	835.290	840.130
26.5	937.848	905.779	847.391	823.491	829.239

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27.0	928.772	895.493	835.592	811.995	818.650
27.5	919.998	885.207	823.793	800.801	807.759
28.0	911.225	874.921	812.297	789.607	797.171
28.5	902.149	864.635	800.801	778.414	787.187
29.0	893.073	854.349	789.305	767.522	776.598
29.5	884.300	844.365	778.111	756.631	766.312
30.0	875.526	834.079	766.615	745.740	756.631
30.5	867.055	823.793	755.421	735.152	746.648
31.0	858.584	813.810	743.925	724.563	736.967
31.5	849.508	803.826	733.034	714.277	727.286
32.0	840.735	793.540	721.840	703.991	717.605
32.5	831.962	783.557	710.647	693.705	708.226
33.0	822.886	773.876	699.755	683.419	698.848
33.5	814.415	763.892	688.864	673.435	689.772
34.0	805.339	753.909	677.973	663.754	680.696
34.5	796.565	744.228	667.687	653.771	671.620
35.0	787.792	734.244	657.098	644.392	662.847
35.5	779.321	724.260	646.510	634.711	654.073
36.0	770.548	714.579	635.921	625.333	645.300
36.5	761.774	704.898	625.938	615.954	636.829
37.0	753.001	695.217	615.954	606.576	628.358
37.5	744.228	685.839	605.971	597.500	619.887
38.0	735.757	676.460	596.290	588.726	611.416
38.5	726.983	666.779	586.609	579.953	603.248
39.0	717.907	657.098	576.928	571.482	595.079
39.5	709.436	648.022	567.549	562.709	587.214
40.0	700.663	638.644	558.473	554.540	579.348
40.5	692.192	629.568	549.397	546.069	571.482
41.0	683.116	620.190	540.624	537.901	563.616
41.5	674.645	611.416	531.850	530.035	556.053
42.0	665.872	602.340	523.077	522.169	548.187
42.5	657.401	593.567	514.606	514.304	540.624
43.0	648.628	584.491	506.135	506.135	533.363
43.5	639.854	575.717	497.967	498.572	525.800
44.0	631.081	566.944	489.799	491.009	518.539
44.5	622.610	558.171	481.933	483.445	511.278
45.0	613.836	549.700	473.764	475.882	503.715
45.5	605.063	540.926	465.899	468.621	496.454
46.0	596.592	532.153	458.335	461.058	489.193
46.5	588.121	523.682	450.772	453.797	481.933
47.0	579.650	515.211	443.209	446.537	474.369
47.5	570.877	506.740	435.645	439.578	467.109
48.0	562.104	498.269	428.385	432.318	459.848
48.5	553.330	489.799	420.821	425.057	452.587
49.0	545.162	481.630	413.863	417.796	445.326
49.5	536.086	473.159	406.602	410.838	438.368
50.0	527.615	464.991	399.342	403.577	431.107
50.5	519.144	456.823	392.383	396.619	424.149
51.0	510.371	448.654	385.425	389.661	416.888
51.5	501.900	440.183	378.769	382.400	409.325
52.0	492.824	432.015	371.811	375.442	402.367
52.5	484.353	423.847	365.156	368.483	395.106
53.0	475.882	415.981	358.802	361.828	387.845
53.5	467.411	407.812	352.147	354.869	380.585
54.0	458.638	399.947	345.491	347.911	373.324
54.5	450.167	392.383	339.138	341.256	366.063

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55.0	441.696	384.518	332.785	334.600	359.407
55.5	433.225	376.652	326.431	327.944	352.449
56.0	424.754	369.088	320.078	321.288	345.188
56.5	416.586	361.525	313.725	314.935	338.230
57.0	408.418	353.962	307.675	308.280	331.272
57.5	399.947	346.399	301.594	301.745	324.314
58.0	391.778	339.138	295.422	295.331	317.658
58.5	383.610	331.575	289.402	288.827	311.002
59.0	375.442	324.314	283.260	282.443	304.044
59.5	367.576	317.053	277.240	276.151	297.207
60.0	359.407	309.792	271.159	269.858	290.642
60.5	351.542	302.532	265.078	263.626	284.228
61.0	343.676	295.392	259.118	257.333	277.663
61.5	335.507	288.343	252.916	251.162	271.250
62.0	327.944	281.324	246.926	244.990	264.987
62.5	320.078	274.457	240.815	238.909	258.574
63.0	312.213	267.559	234.764	232.919	252.100
63.5	304.952	260.873	228.744	226.989	246.049
64.0	297.086	254.066	222.542	221.060	239.817
64.5	289.220	247.350	216.461	215.221	233.706
65.0	281.143	240.815	210.350	209.564	227.715
65.5	273.458	234.129	204.360	203.997	221.725
66.0	265.834	227.443	198.461	198.370	215.221
66.5	258.422	220.939	192.622	192.985	209.231
67.0	251.010	214.344	186.874	187.660	203.331
67.5	243.447	207.900	181.186	182.305	197.523
68.0	235.581	201.546	175.710	177.041	191.654
68.5	227.897	195.405	170.416	171.777	186.057
69.0	220.606	189.143	165.182	166.544	180.279
69.5	213.496	183.062	160.039	161.401	174.561
70.0	206.296	177.132	154.957	156.348	168.903
70.5	199.338	171.142	149.935	151.387	163.458
71.0	192.198	165.243	145.003	146.425	157.952
71.5	185.391	159.434	140.133	141.524	152.597
72.0	178.463	153.716	135.262	136.653	147.272
72.5	171.717	147.938	130.391	131.843	141.978
73.0	164.970	142.250	125.641	127.003	136.774
73.5	158.405	136.593	120.861	122.223	131.541
74.0	151.931	130.966	116.112	117.412	126.337
74.5	145.427	125.399	111.422	112.693	121.224
75.0	139.043	119.863	106.854	107.973	116.142
75.5	132.660	114.387	102.286	103.375	110.999
76.0	126.398	108.942	97.627	98.716	106.037
76.5	120.226	103.496	93.119	94.118	100.985
77.0	114.206	97.990	88.672	89.549	96.024
77.5	108.185	92.696	84.164	85.132	91.092
78.0	102.225	87.643	79.687	80.685	86.221
78.5	96.326	82.561	75.330	76.329	81.381
79.0	90.608	77.630	70.974	72.002	76.661
79.5	85.132	72.789	66.678	67.676	71.972
80.0	79.687	68.160	62.382	63.350	67.313
80.5	74.362	63.562	58.116	59.084	63.017
81.0	69.159	59.054	53.911	55.030	58.873
81.5	64.106	54.758	49.736	51.249	55.061
82.0	59.266	50.553	45.713	47.618	51.309
82.5	54.637	46.529	41.719	44.230	47.588

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## CANDELA TABULATION - (Cont.)

83.0	50.250	42.596	37.968	40.993	43.958
83.5	46.015	38.845	34.519	37.726	40.448
84.0	42.082	35.275	31.373	34.489	37.000
84.5	38.179	31.796	28.529	31.312	33.672
85.0	34.489	28.468	25.836	28.196	30.465
85.5	30.949	25.292	23.325	25.201	27.349
86.0	27.440	22.206	20.935	22.387	24.566
86.5	24.021	19.332	18.666	19.876	22.055
87.0	20.602	16.760	16.548	17.728	19.725
87.5	17.184	14.431	14.673	15.913	17.698
88.0	13.826	12.222	12.918	14.249	15.883
88.5	10.831	10.105	11.103	12.585	14.128
89.0	8.078	7.805	8.894	10.195	11.284
89.5	4.992	4.962	5.960	7.654	8.894
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FRM-24-L25-827-DMA-DIM-UNV\_.IES\_.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-24-L25-827-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-L25-827-DMA-DIM-UNV\_.IES\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	428.72	N.A.	18.00
0-30	841.43	N.A.	35.40
0-40	1273.35	N.A.	53.50
0-60	1995.91	N.A.	83.90
0-80	2345.67	N.A.	98.60
0-90	2379.55	N.A.	100.00
10-90	2261.78	N.A.	95.10
20-40	844.63	N.A.	35.50
20-50	1242.04	N.A.	52.20
40-70	949.69	N.A.	39.90
60-80	349.75	N.A.	14.70
70-80	122.63	N.A.	5.20
80-90	33.89	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	2379.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.77
10-20	310.94
20-30	412.71
30-40	431.92
40-50	397.41
50-60	325.15
60-70	227.13
70-80	122.63
80-90	33.89
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-L25-827-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	31	55	44	36	31	43	36	31	42	36	31	41	35	31	29

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-827-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

X=2H	Y=2H	11.8	13.4	12.2	13.7	14.0	10.8	12.3	11.1	12.6	12.9
	3H	13.5	14.9	13.9	15.2	15.6	12.4	13.8	12.8	14.1	14.5
	4H	14.1	15.4	14.5	15.8	16.1	13.0	14.3	13.4	14.7	15.0
	6H	14.5	15.7	14.9	16.1	16.5	13.4	14.6	13.9	15.0	15.4
	8H	14.7	15.8	15.1	16.2	16.6	13.6	14.7	14.0	15.1	15.5
	12H	14.8	15.8	15.2	16.2	16.7	13.7	14.8	14.1	15.2	15.6

### UGR Viewed Endwise

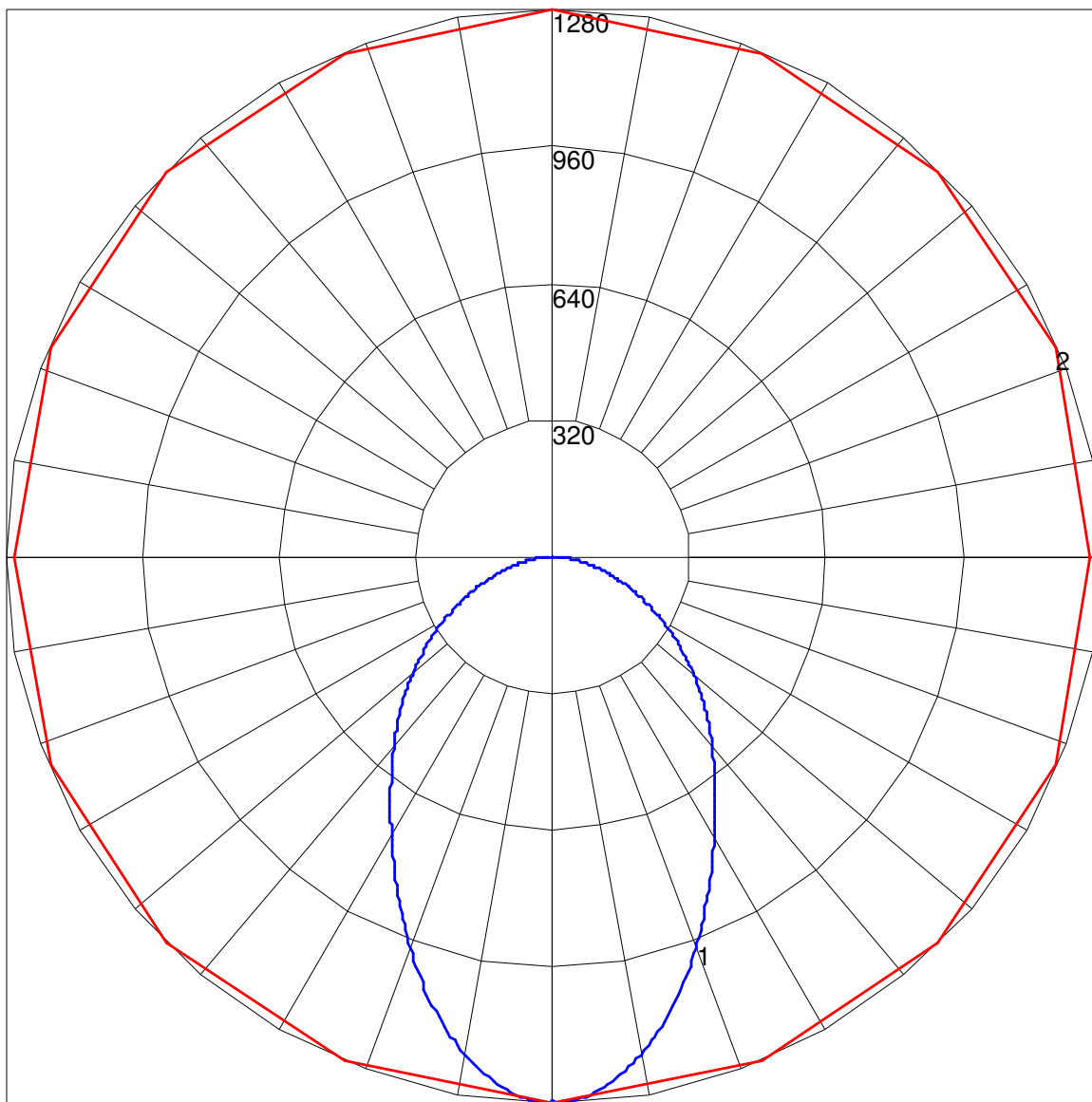
4H	2H	12.2	13.5	12.6	13.8	14.2	11.3	12.6	11.7	12.9	13.3
	3H	14.1	15.1	14.5	15.5	15.9	13.1	14.2	13.5	14.6	15.0
	4H	14.8	15.8	15.2	16.2	16.6	13.8	14.8	14.3	15.2	15.7
	6H	15.3	16.2	15.8	16.6	17.1	14.4	15.2	14.9	15.7	16.2
	8H	15.5	16.3	16.0	16.7	17.2	14.6	15.4	15.0	15.8	16.3
	12H	15.6	16.3	16.1	16.8	17.3	14.7	15.4	15.2	15.9	16.4

8H	4H	15.0	15.7	15.4	16.2	16.7	14.1	14.9	14.6	15.3	15.8
	6H	15.6	16.2	16.1	16.7	17.2	14.8	15.4	15.3	15.9	16.4
	8H	15.8	16.4	16.3	16.9	17.4	15.0	15.6	15.5	16.1	16.6
	12H	16.0	16.5	16.5	17.0	17.6	15.2	15.7	15.7	16.2	16.8

12H	4H	15.0	15.7	15.4	16.1	16.6	14.1	14.8	14.6	15.3	15.8
	6H	15.6	16.2	16.1	16.7	17.2	14.8	15.4	15.3	15.9	16.4
	8H	15.9	16.4	16.4	16.9	17.5	15.1	15.6	15.6	16.1	16.7

Maximum UGR = 17.6

POLAR GRAPH



Maximum Candela = 1280.313 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.)