

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-927-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-L25-927-DMA-DIM-UNV\_  
[LUMINAIRE] Recessed 2 x 4 narrow aperture LED luminaire  
[MORE] with center frame driver housing  
[LAMP] LED  
[ \_SEARCH\_SOURCE TYPE] 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	1963
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	1048	809	860
55	930	700	756
65	803	601	650
75	649	498	542
85	478	358	422

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-927-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1051.687	1051.687	1051.687	1051.687	1051.687
<b>0.5</b>	1039.461	1050.689	1054.182	1053.433	1055.928
<b>1.0</b>	1038.962	1050.190	1053.683	1052.934	1055.180
<b>1.5</b>	1038.463	1049.441	1052.934	1051.687	1054.182
<b>2.0</b>	1037.465	1048.443	1051.687	1050.190	1052.435
<b>2.5</b>	1036.217	1046.946	1049.940	1048.194	1050.439
<b>3.0</b>	1034.970	1045.449	1047.944	1045.948	1048.194
<b>3.5</b>	1032.973	1043.453	1045.698	1043.203	1045.449
<b>4.0</b>	1030.977	1041.207	1042.954	1040.209	1042.205
<b>4.5</b>	1028.732	1038.712	1039.960	1036.716	1038.463
<b>5.0</b>	1026.237	1035.968	1036.716	1032.973	1034.720
<b>5.5</b>	1023.492	1032.724	1032.973	1028.732	1030.478
<b>6.0</b>	1020.498	1029.231	1028.732	1024.490	1025.488
<b>6.5</b>	1017.005	1025.987	1024.241	1019.500	1020.747
<b>7.0</b>	1013.512	1022.245	1019.749	1014.510	1015.258
<b>7.5</b>	1010.018	1018.003	1014.759	1009.270	1009.519
<b>8.0</b>	1006.026	1013.512	1009.769	1003.531	1003.781
<b>8.5</b>	1001.785	1009.020	1004.030	997.293	997.543
<b>9.0</b>	997.543	1004.280	998.541	991.056	991.056
<b>9.5</b>	993.301	999.290	992.802	984.818	984.568
<b>10.0</b>	988.561	994.050	986.565	978.081	977.582
<b>10.5</b>	983.820	988.810	980.327	971.095	970.097
<b>11.0</b>	978.830	983.071	973.590	963.859	962.861
<b>11.5</b>	973.839	977.333	966.853	956.374	955.376
<b>12.0</b>	968.600	971.344	959.867	948.639	947.641
<b>12.5</b>	963.111	965.107	952.631	940.655	939.906
<b>13.0</b>	957.621	958.869	945.395	932.670	931.922
<b>13.5</b>	951.883	952.382	937.910	924.686	924.187
<b>14.0</b>	946.144	945.645	930.175	916.203	915.704
<b>14.5</b>	940.156	939.158	922.191	907.719	906.971
<b>15.0</b>	934.167	932.421	914.206	898.737	898.487
<b>15.5</b>	928.179	925.185	905.973	890.004	889.754
<b>16.0</b>	921.941	918.199	897.739	881.271	880.772
<b>16.5</b>	915.704	910.963	889.006	872.039	871.790
<b>17.0</b>	909.466	903.478	880.273	863.057	862.558
<b>17.5</b>	902.978	895.743	871.540	853.825	853.326
<b>18.0</b>	896.242	888.008	862.558	844.344	843.845
<b>18.5</b>	889.255	880.273	853.326	834.862	834.363
<b>19.0</b>	882.519	872.538	844.344	825.381	824.882
<b>19.5</b>	875.532	864.554	835.112	815.899	815.650
<b>20.0</b>	868.546	856.570	825.630	805.919	805.919
<b>20.5</b>	861.560	848.336	816.149	796.438	796.438
<b>21.0</b>	854.324	840.102	806.418	786.457	786.956
<b>21.5</b>	846.839	831.868	796.687	776.726	777.225
<b>22.0</b>	839.353	823.634	786.956	766.995	767.744
<b>22.5</b>	832.118	815.400	777.225	757.015	758.013
<b>23.0</b>	824.882	806.917	767.494	747.284	748.531
<b>23.5</b>	817.646	798.184	757.514	737.304	739.050
<b>24.0</b>	810.410	789.950	747.783	727.323	729.569
<b>24.5</b>	802.925	781.217	738.052	717.842	720.337
<b>25.0</b>	795.439	772.734	728.321	708.111	711.105
<b>25.5</b>	788.204	764.251	718.341	698.629	701.873
<b>26.0</b>	780.718	755.767	708.859	688.898	692.891
<b>26.5</b>	773.483	747.034	698.879	679.168	683.908

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-927-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

27.0	765.997	738.551	689.148	669.686	675.175
27.5	758.761	730.068	679.417	660.454	666.193
28.0	751.526	721.584	669.936	651.222	657.460
28.5	744.040	713.101	660.454	641.991	649.226
29.0	736.555	704.618	650.973	633.008	640.493
29.5	729.319	696.384	641.741	624.026	632.010
30.0	722.083	687.900	632.260	615.043	624.026
30.5	715.097	679.417	623.028	606.311	615.792
31.0	708.111	671.183	613.546	597.578	607.808
31.5	700.625	662.949	604.564	589.094	599.823
32.0	693.390	654.466	595.332	580.611	591.839
32.5	686.154	646.232	586.100	572.128	584.104
33.0	678.669	638.248	577.118	563.644	576.369
33.5	671.682	630.014	568.135	555.410	568.884
34.0	664.197	621.780	559.153	547.426	561.399
34.5	656.961	613.796	550.670	539.192	553.913
35.0	649.725	605.562	541.937	531.457	546.677
35.5	642.739	597.328	533.204	523.473	539.442
36.0	635.503	589.344	524.471	515.738	532.206
36.5	628.267	581.359	516.237	508.003	525.220
37.0	621.032	573.375	508.003	500.269	518.233
37.5	613.796	565.640	499.770	492.783	511.247
38.0	606.810	557.905	491.785	485.547	504.261
38.5	599.574	549.921	483.801	478.312	497.524
39.0	592.088	541.937	475.817	471.325	490.787
39.5	585.102	534.451	468.082	464.090	484.300
40.0	577.866	526.717	460.596	457.353	477.813
40.5	570.880	519.231	453.111	450.366	471.325
41.0	563.395	511.497	445.875	443.630	464.838
41.5	556.408	504.261	438.639	437.142	458.600
42.0	549.173	496.775	431.404	430.655	452.113
42.5	542.186	489.540	424.417	424.168	445.875
43.0	534.951	482.054	417.431	417.431	439.887
43.5	527.715	474.818	410.694	411.193	433.649
44.0	520.479	467.583	403.957	404.956	427.661
44.5	513.493	460.347	397.470	398.718	421.673
45.0	506.257	453.361	390.733	392.480	415.435
45.5	499.021	446.125	384.246	386.492	409.447
46.0	492.035	438.889	378.008	380.254	403.458
46.5	485.048	431.903	371.771	374.266	397.470
47.0	478.062	424.916	365.533	368.277	391.232
47.5	470.826	417.930	359.295	362.539	385.244
48.0	463.591	410.944	353.307	356.551	379.256
48.5	456.355	403.957	347.069	350.562	373.268
49.0	449.618	397.221	341.330	344.574	367.279
49.5	442.133	390.234	335.342	338.835	361.541
50.0	435.146	383.498	329.354	332.847	355.552
50.5	428.160	376.761	323.615	327.108	349.814
51.0	420.924	370.024	317.876	321.370	343.825
51.5	413.938	363.038	312.387	315.381	337.588
52.0	406.453	356.301	306.648	309.643	331.849
52.5	399.466	349.564	301.159	303.904	325.861
53.0	392.480	343.077	295.919	298.415	319.872
53.5	385.494	336.340	290.430	292.676	313.884
54.0	378.258	329.853	284.941	286.937	307.896
54.5	371.272	323.615	279.701	281.448	301.908

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55.0	364.285	317.128	274.462	275.959	296.418
55.5	357.299	310.641	269.222	270.469	290.680
56.0	350.313	304.403	263.982	264.980	284.691
56.5	343.576	298.165	258.742	259.740	278.953
57.0	336.839	291.927	253.752	254.251	273.214
57.5	329.853	285.690	248.737	248.862	267.475
58.0	323.116	279.701	243.647	243.572	261.986
58.5	316.379	273.464	238.682	238.208	256.497
59.0	309.643	267.475	233.617	232.943	250.758
59.5	303.155	261.487	228.651	227.753	245.119
60.0	296.418	255.499	223.636	222.563	239.705
60.5	289.931	249.510	218.621	217.423	234.415
61.0	283.444	243.622	213.706	212.234	229.001
61.5	276.707	237.808	208.591	207.144	223.711
62.0	270.469	232.020	203.650	202.054	218.546
62.5	263.982	226.356	198.610	197.038	213.257
63.0	257.495	220.667	193.620	192.098	207.917
63.5	251.507	215.153	188.655	187.208	202.927
64.0	245.019	209.539	183.540	182.317	197.787
64.5	238.532	204.000	178.525	177.502	192.747
65.0	231.870	198.610	173.485	172.836	187.807
65.5	225.533	193.096	168.544	168.245	182.866
66.0	219.245	187.582	163.679	163.604	177.502
66.5	213.132	182.218	158.863	159.163	172.561
67.0	207.019	176.778	154.123	154.771	167.696
67.5	200.781	171.464	149.432	150.355	162.905
68.0	194.294	166.224	144.916	146.014	158.065
68.5	187.956	161.159	140.549	141.672	153.449
69.0	181.943	155.994	136.233	137.356	148.683
69.5	176.080	150.979	131.991	133.114	143.968
70.0	170.141	146.088	127.799	128.947	139.302
70.5	164.402	141.148	123.657	124.855	134.811
71.0	158.514	136.283	119.590	120.763	130.269
71.5	152.900	131.492	115.573	116.721	125.853
72.0	147.186	126.776	111.556	112.704	121.462
72.5	141.622	122.011	107.539	108.737	117.095
73.0	136.058	117.320	103.622	104.745	112.804
73.5	130.644	112.654	99.679	100.802	108.487
74.0	125.304	108.013	95.762	96.835	104.196
74.5	119.940	103.422	91.895	92.943	99.979
75.0	114.675	98.856	88.127	89.050	95.787
75.5	109.410	94.340	84.359	85.258	91.545
76.0	104.245	89.849	80.517	81.415	87.453
76.5	99.155	85.358	76.799	77.623	83.287
77.0	94.190	80.816	73.132	73.855	79.195
77.5	89.225	76.450	69.414	70.212	75.128
78.0	84.310	72.283	65.721	66.544	71.110
78.5	79.444	68.091	62.128	62.951	67.118
79.0	74.728	64.024	58.535	59.383	63.226
79.5	70.212	60.032	54.992	55.815	59.359
80.0	65.721	56.215	51.449	52.247	55.516
80.5	61.330	52.422	47.931	48.729	51.973
81.0	57.038	48.704	44.463	45.386	48.555
81.5	52.871	45.161	41.020	42.267	45.411
82.0	48.879	41.693	37.701	39.273	42.317
82.5	45.062	38.375	34.407	36.478	39.248

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83.0	41.444	35.131	31.314	33.809	36.254
83.5	37.951	32.037	28.469	31.114	33.360
84.0	34.707	29.093	25.874	28.444	30.515
84.5	31.488	26.224	23.529	25.824	27.771
85.0	28.444	23.479	21.308	23.254	25.126
85.5	25.525	20.859	19.237	20.784	22.556
86.0	22.631	18.314	17.266	18.464	20.260
86.5	19.811	15.944	15.395	16.393	18.189
87.0	16.992	13.823	13.648	14.621	16.268
87.5	14.172	11.902	12.101	13.124	14.596
88.0	11.403	10.080	10.654	11.752	13.099
88.5	8.932	8.334	9.157	10.380	11.652
89.0	6.662	6.437	7.336	8.409	9.307
89.5	4.117	4.092	4.915	6.313	7.336
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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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-L25-927-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-L25-927-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-L25-927-DMA-DIM-UNV\_.IES\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	353.58	N.A.	18.00
0-30	693.97	N.A.	35.40
0-40	1050.18	N.A.	53.50
0-60	1646.11	N.A.	83.90
0-80	1934.57	N.A.	98.60
0-90	1962.52	N.A.	100.00
10-90	1865.39	N.A.	95.10
20-40	696.60	N.A.	35.50
20-50	1024.36	N.A.	52.20
40-70	783.25	N.A.	39.90
60-80	288.46	N.A.	14.70
70-80	101.14	N.A.	5.20
80-90	27.95	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	1962.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	97.13
10-20	256.45
20-30	340.38
30-40	356.22
40-50	327.76
50-60	268.17
60-70	187.32
70-80	101.14
80-90	27.95
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-L25-927-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	59	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-L25-927-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	11.2	12.8	11.6	13.1	13.4	10.2	11.7	10.5	12.0	12.3
	3H	12.9	14.3	13.3	14.6	15.0	11.8	13.2	12.2	13.5	13.9
	4H	13.5	14.8	13.9	15.2	15.5	12.4	13.7	12.8	14.1	14.4
	6H	13.9	15.1	14.3	15.5	15.9	12.8	14.0	13.3	14.4	14.8
	8H	14.1	15.2	14.5	15.6	16.0	13.0	14.1	13.4	14.5	14.9
	12H	14.1	15.2	14.6	15.6	16.1	13.1	14.2	13.5	14.6	15.0

### UGR Viewed Endwise

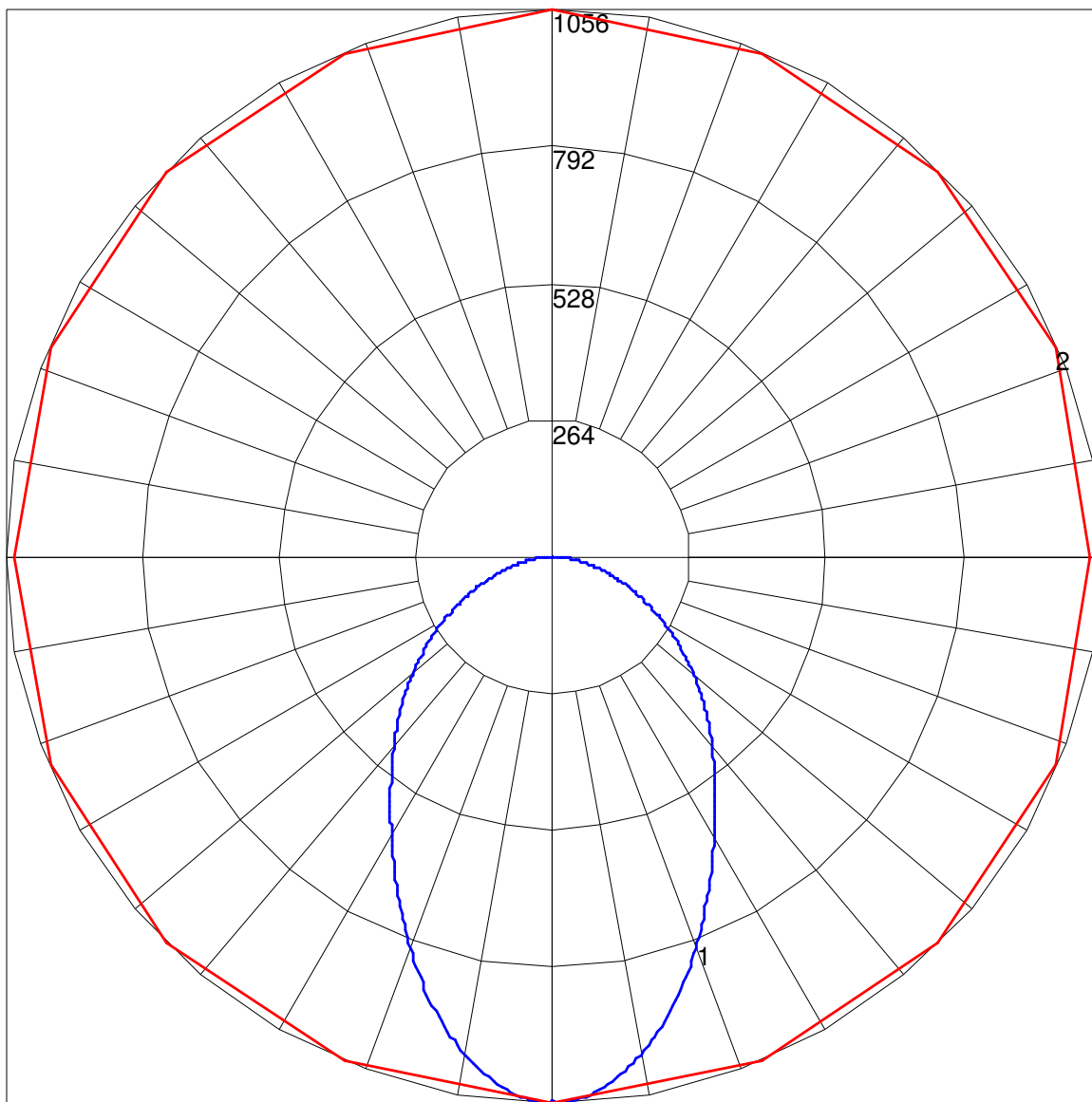
4H	2H	11.6	12.9	12.0	13.2	13.6	10.7	12.0	11.1	12.3	12.7
	3H	13.5	14.5	13.9	14.9	15.3	12.5	13.6	12.9	14.0	14.4
	4H	14.2	15.2	14.6	15.6	16.0	13.2	14.2	13.7	14.6	15.1
	6H	14.7	15.6	15.2	16.0	16.5	13.8	14.6	14.3	15.1	15.5
	8H	14.9	15.7	15.4	16.1	16.6	14.0	14.8	14.4	15.2	15.7
	12H	15.0	15.7	15.5	16.2	16.7	14.1	14.8	14.6	15.3	15.8

8H	4H	14.4	15.1	14.8	15.6	16.1	13.5	14.3	14.0	14.7	15.2
	6H	15.0	15.6	15.5	16.1	16.6	14.2	14.8	14.7	15.3	15.8
	8H	15.2	15.8	15.7	16.3	16.8	14.4	15.0	14.9	15.5	16.0
	12H	15.4	15.9	15.9	16.4	17.0	14.6	15.1	15.1	15.6	16.2

12H	4H	14.4	15.1	14.8	15.5	16.0	13.5	14.2	14.0	14.7	15.2
	6H	15.0	15.6	15.5	16.1	16.6	14.2	14.8	14.7	15.3	15.8
	8H	15.3	15.8	15.8	16.3	16.9	14.5	15.0	15.0	15.5	16.1

Maximum UGR = 17.0

POLAR GRAPH



Maximum Candela = 1055.928 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.)