

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-930-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-L25-930-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	2012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	1074	829	881
55	953	718	775
65	823	616	667
75	665	511	555
85	490	367	433

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-930-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>	1077.979	1077.979	1077.979	1077.979	1077.979
<b>0.5</b>	1065.447	1076.956	1080.536	1079.769	1082.326
<b>1.0</b>	1064.936	1076.444	1080.025	1079.257	1081.559
<b>1.5</b>	1064.424	1075.677	1079.257	1077.979	1080.536
<b>2.0</b>	1063.401	1074.654	1077.979	1076.444	1078.746
<b>2.5</b>	1062.122	1073.119	1076.188	1074.398	1076.700
<b>3.0</b>	1060.844	1071.585	1074.142	1072.097	1074.398
<b>3.5</b>	1058.798	1069.539	1071.841	1069.283	1071.585
<b>4.0</b>	1056.752	1067.237	1069.028	1066.214	1068.260
<b>4.5</b>	1054.450	1064.680	1065.959	1062.634	1064.424
<b>5.0</b>	1051.892	1061.867	1062.634	1058.798	1060.588
<b>5.5</b>	1049.079	1058.542	1058.798	1054.450	1056.240
<b>6.0</b>	1046.010	1054.961	1054.450	1050.102	1051.125
<b>6.5</b>	1042.430	1051.637	1049.846	1044.987	1046.266
<b>7.0</b>	1038.849	1047.800	1045.243	1039.872	1040.639
<b>7.5</b>	1035.269	1043.453	1040.128	1034.502	1034.757
<b>8.0</b>	1031.177	1038.849	1035.013	1028.619	1028.875
<b>8.5</b>	1026.829	1034.246	1029.131	1022.226	1022.481
<b>9.0</b>	1022.481	1029.387	1023.504	1015.832	1015.832
<b>9.5</b>	1018.134	1024.272	1017.622	1009.438	1009.182
<b>10.0</b>	1013.274	1018.901	1011.228	1002.533	1002.021
<b>10.5</b>	1008.415	1013.530	1004.835	995.372	994.349
<b>11.0</b>	1003.300	1007.648	997.930	987.955	986.932
<b>11.5</b>	998.185	1001.766	991.024	980.283	979.260
<b>12.0</b>	992.815	995.628	983.863	972.355	971.332
<b>12.5</b>	987.188	989.234	976.447	964.171	963.404
<b>13.0</b>	981.562	982.840	969.030	955.987	955.220
<b>13.5</b>	975.679	976.191	961.358	947.803	947.291
<b>14.0</b>	969.797	969.286	953.429	939.107	938.596
<b>14.5</b>	963.659	962.636	945.245	930.412	929.645
<b>15.0</b>	957.521	955.731	937.061	921.205	920.949
<b>15.5</b>	951.383	948.314	928.622	912.254	911.998
<b>16.0</b>	944.990	941.153	920.182	903.303	902.791
<b>16.5</b>	938.596	933.737	911.231	893.840	893.584
<b>17.0</b>	932.202	926.064	902.280	884.633	884.122
<b>17.5</b>	925.553	918.136	893.329	875.170	874.659
<b>18.0</b>	918.648	910.208	884.122	865.452	864.940
<b>18.5</b>	911.487	902.280	874.659	855.734	855.222
<b>19.0</b>	904.581	894.351	865.452	846.015	845.504
<b>19.5</b>	897.420	886.168	855.989	836.297	836.041
<b>20.0</b>	890.260	877.984	846.271	826.067	826.067
<b>20.5</b>	883.099	869.544	836.552	816.348	816.348
<b>21.0</b>	875.682	861.104	826.578	806.118	806.630
<b>21.5</b>	868.009	852.665	816.604	796.144	796.656
<b>22.0</b>	860.337	844.225	806.630	786.170	786.937
<b>22.5</b>	852.920	835.785	796.656	775.940	776.963
<b>23.0</b>	845.504	827.090	786.682	765.966	767.245
<b>23.5</b>	838.087	818.139	776.452	755.736	757.526
<b>24.0</b>	830.670	809.699	766.477	745.506	747.808
<b>24.5</b>	822.998	800.748	756.503	735.788	738.345
<b>25.0</b>	815.325	792.052	746.529	725.813	728.882
<b>25.5</b>	807.909	783.357	736.299	716.095	719.420
<b>26.0</b>	800.236	774.661	726.581	706.121	710.213
<b>26.5</b>	792.819	765.710	716.351	696.147	701.006

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-930-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

27.0	785.147	757.015	706.377	686.428	692.055
27.5	777.730	748.319	696.402	676.966	682.848
28.0	770.314	739.624	686.684	667.503	673.897
28.5	762.641	730.928	676.966	658.040	665.457
29.0	754.969	722.233	667.247	648.833	656.506
29.5	747.552	713.793	657.784	639.626	647.810
30.0	740.135	705.098	648.066	630.419	639.626
30.5	732.974	696.402	638.603	621.468	631.187
31.0	725.813	687.963	628.885	612.517	623.003
31.5	718.141	679.523	619.678	603.822	614.819
32.0	710.724	670.828	610.215	595.126	606.635
32.5	703.308	662.388	600.753	586.431	598.707
33.0	695.635	654.204	591.546	577.735	590.778
33.5	688.474	645.764	582.339	569.296	583.106
34.0	680.802	637.325	573.132	561.112	575.433
34.5	673.385	629.141	564.436	552.672	567.761
35.0	665.968	620.701	555.485	544.744	560.344
35.5	658.807	612.261	546.534	536.560	552.928
36.0	651.391	604.077	537.583	528.632	545.511
36.5	643.974	595.893	529.143	520.703	538.350
37.0	636.557	587.709	520.703	512.775	531.189
37.5	629.141	579.781	512.264	505.103	524.028
38.0	621.980	571.853	504.080	497.686	516.867
38.5	614.563	563.669	495.896	490.269	509.962
39.0	606.891	555.485	487.712	483.108	503.057
39.5	599.730	547.813	479.784	475.692	496.407
40.0	592.313	539.884	472.111	468.786	489.758
40.5	585.152	532.212	464.439	461.626	483.108
41.0	577.479	524.284	457.022	454.720	476.459
41.5	570.319	516.867	449.605	448.071	470.065
42.0	562.902	509.195	442.189	441.421	463.416
42.5	555.741	501.778	435.028	434.772	457.022
43.0	548.324	494.106	427.867	427.867	450.884
43.5	540.907	486.689	420.962	421.473	444.490
44.0	533.491	479.272	414.056	415.079	438.352
44.5	526.330	471.855	407.407	408.686	432.214
45.0	518.913	464.695	400.502	402.292	425.821
45.5	511.496	457.278	393.852	396.154	419.683
46.0	504.335	449.861	387.459	389.760	413.545
46.5	497.175	442.700	381.065	383.622	407.407
47.0	490.014	435.539	374.671	377.484	401.013
47.5	482.597	428.378	368.277	371.602	394.875
48.0	475.180	421.217	362.139	365.464	388.737
48.5	467.763	414.056	355.746	359.326	382.599
49.0	460.858	407.151	349.864	353.188	376.461
49.5	453.186	399.990	343.726	347.306	370.579
50.0	446.025	393.085	337.588	341.168	364.441
50.5	438.864	386.180	331.705	335.286	358.559
51.0	431.447	379.275	325.823	329.404	352.421
51.5	424.286	372.114	320.197	323.266	346.027
52.0	416.614	365.208	314.315	317.384	340.145
52.5	409.453	358.303	308.688	311.501	334.007
53.0	402.292	351.654	303.317	305.875	327.869
53.5	395.131	344.749	297.691	299.993	321.731
54.0	387.714	338.099	292.064	294.110	315.593
54.5	380.553	331.705	286.694	288.484	309.455

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FRM-24-L25-930-DMA-DIM-UNV\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

55.0	373.392	325.056	281.323	282.858	303.829
55.5	366.231	318.407	275.952	277.231	297.947
56.0	359.070	312.013	270.582	271.605	291.809
56.5	352.165	305.619	265.211	266.234	285.927
57.0	345.260	299.225	260.096	260.607	280.044
57.5	338.099	292.832	254.955	255.083	274.162
58.0	331.194	286.694	249.738	249.661	268.536
58.5	324.289	280.300	244.649	244.163	262.909
59.0	317.384	274.162	239.457	238.767	257.027
59.5	310.734	268.024	234.368	233.447	251.247
60.0	303.829	261.886	229.227	228.127	245.697
60.5	297.179	255.748	224.087	222.859	240.275
61.0	290.530	249.713	219.048	217.539	234.726
61.5	283.625	243.754	213.806	212.322	229.304
62.0	277.231	237.820	208.742	207.105	224.010
62.5	270.582	232.015	203.576	201.964	218.588
63.0	263.932	226.184	198.461	196.901	213.115
63.5	257.794	220.532	193.371	191.888	208.000
64.0	251.145	214.777	188.128	186.875	202.732
64.5	244.495	209.100	182.988	181.939	197.565
65.0	237.667	203.576	177.822	177.157	192.502
65.5	231.171	197.924	172.758	172.451	187.438
66.0	224.726	192.272	167.771	167.694	181.939
66.5	218.460	186.773	162.835	163.142	176.875
67.0	212.194	181.198	157.976	158.641	171.888
67.5	205.801	175.750	153.168	154.114	166.978
68.0	199.151	170.379	148.539	149.664	162.016
68.5	192.655	165.188	144.063	145.214	157.285
69.0	186.492	159.894	139.639	140.789	152.400
69.5	180.482	154.753	135.291	136.442	147.567
70.0	174.395	149.741	130.994	132.171	142.784
70.5	168.512	144.677	126.749	127.976	138.181
71.0	162.477	139.690	122.580	123.782	133.526
71.5	156.723	134.779	118.463	119.639	128.999
72.0	150.866	129.946	114.345	115.521	124.498
72.5	145.163	125.061	110.227	111.455	120.023
73.0	139.460	120.253	106.212	107.363	115.624
73.5	133.910	115.470	102.171	103.322	111.199
74.0	128.437	110.713	98.156	99.256	106.800
74.5	122.938	106.008	94.192	95.266	102.478
75.0	117.542	101.327	90.330	91.277	98.182
75.5	112.146	96.698	86.468	87.389	93.834
76.0	106.852	92.095	82.530	83.451	89.640
76.5	101.634	87.491	78.719	79.563	85.369
77.0	96.545	82.837	74.960	75.701	81.174
77.5	91.456	78.361	71.149	71.968	77.006
78.0	86.417	74.090	67.364	68.208	72.888
78.5	81.430	69.794	63.681	64.525	68.796
79.0	76.597	65.625	59.999	60.868	64.807
79.5	71.968	61.533	56.367	57.211	60.842
80.0	67.364	57.620	52.735	53.554	56.904
80.5	62.863	53.733	49.129	49.948	53.272
81.0	58.464	49.922	45.574	46.521	49.769
81.5	54.193	46.290	42.045	43.324	46.546
82.0	50.101	42.736	38.644	40.255	43.375
82.5	46.188	39.334	35.268	37.390	40.229

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PHOTOMETRIC FILENAME : FRM-24-L25-930-DMA-DIM-UNV\_.IES\_.IES

## CANDELA TABULATION - (Cont.)

83.0	42.480	36.009	32.096	34.654	37.160
83.5	38.899	32.838	29.181	31.892	34.194
84.0	35.575	29.820	26.521	29.155	31.278
84.5	32.275	26.879	24.117	26.470	28.465
85.0	29.155	24.066	21.841	23.836	25.754
85.5	26.163	21.381	19.718	21.304	23.120
86.0	23.196	18.772	17.698	18.925	20.767
86.5	20.306	16.342	15.780	16.803	18.644
87.0	17.416	14.168	13.989	14.987	16.675
87.5	14.526	12.199	12.404	13.452	14.961
88.0	11.688	10.332	10.920	12.046	13.427
88.5	9.156	8.542	9.386	10.639	11.943
89.0	6.828	6.598	7.519	8.619	9.539
89.5	4.220	4.194	5.038	6.470	7.519
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-L25-930-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-L25-930-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-L25-930-DMA-DIM-UNV\_.IES\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	362.42	N.A.	18.00
0-30	711.31	N.A.	35.40
0-40	1076.44	N.A.	53.50
0-60	1687.27	N.A.	83.90
0-80	1982.94	N.A.	98.60
0-90	2011.58	N.A.	100.00
10-90	1912.02	N.A.	95.10
20-40	714.02	N.A.	35.50
20-50	1049.97	N.A.	52.20
40-70	802.83	N.A.	39.90
60-80	295.67	N.A.	14.70
70-80	103.66	N.A.	5.20
80-90	28.65	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	2011.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.56
10-20	262.86
20-30	348.89
30-40	365.13
40-50	335.96
50-60	274.87
60-70	192.01
70-80	103.66
80-90	28.65
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-L25-930-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-L25-930-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	14.4	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	14.2	15.2	14.6	15.6	16.1	13.1	14.2	13.5	14.6	15.0

### UGR Viewed Endwise

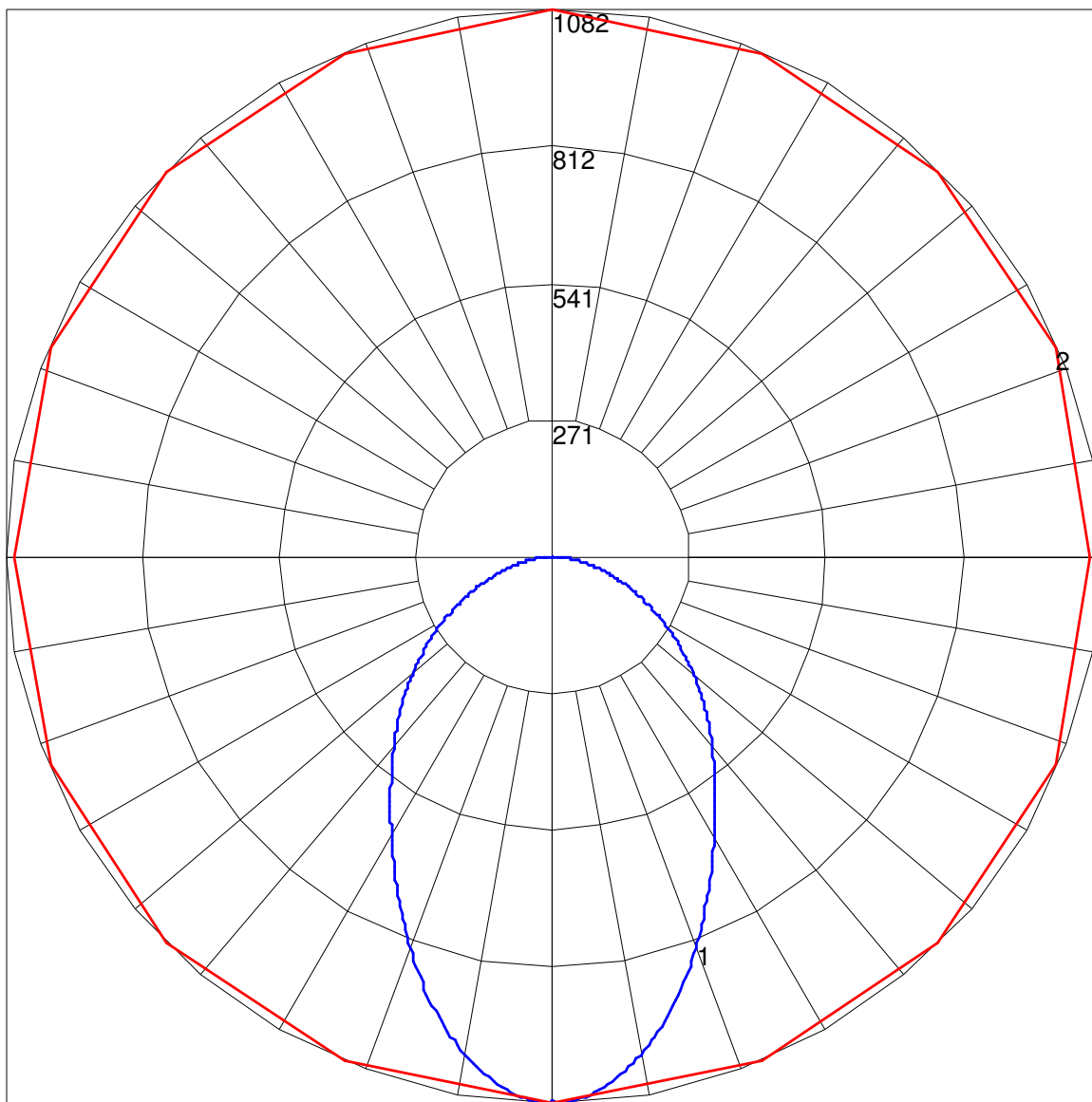
4H	2H	11.6	12.9	12.0	13.2	13.6	10.7	12.0	11.1	12.3	12.7
	3H	13.5	14.5	13.9	14.9	15.3	12.5	13.6	12.9	14.0	14.4
	4H	14.2	15.2	14.6	15.6	16.0	13.2	14.2	13.7	14.6	15.1
	6H	14.7	15.6	15.2	16.0	16.5	13.8	14.6	14.3	15.1	15.6
	8H	14.9	15.7	15.4	16.1	16.6	14.0	14.8	14.4	15.2	15.7
	12H	15.0	15.7	15.5	16.2	16.7	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 = 1082.326 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.)