

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-840-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-L25-840-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	2527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	1349	1041	1107
55	1197	902	974
65	1034	774	837
75	835	642	697
85	615	461	543

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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	1354.046	1354.046	1354.046	1354.046	1354.046
0.5	1338.305	1352.761	1357.259	1356.295	1359.508
1.0	1337.663	1352.119	1356.616	1355.653	1358.544
1.5	1337.020	1351.155	1355.653	1354.046	1357.259
2.0	1335.735	1349.870	1354.046	1352.119	1355.010
2.5	1334.129	1347.943	1351.798	1349.549	1352.440
3.0	1332.523	1346.015	1349.228	1346.658	1349.549
3.5	1329.953	1343.445	1346.336	1343.124	1346.015
4.0	1327.383	1340.554	1342.803	1339.269	1341.839
4.5	1324.492	1337.342	1338.948	1334.772	1337.020
5.0	1321.279	1333.808	1334.772	1329.953	1332.202
5.5	1317.746	1329.632	1329.953	1324.492	1326.741
6.0	1313.891	1325.134	1324.492	1319.031	1320.316
6.5	1309.393	1320.958	1318.709	1312.606	1314.212
7.0	1304.896	1316.139	1312.927	1306.181	1307.145
7.5	1300.398	1310.678	1306.502	1299.435	1299.756
8.0	1295.259	1304.896	1300.077	1292.046	1292.367
8.5	1289.797	1299.114	1292.689	1284.015	1284.336
9.0	1284.336	1293.010	1285.621	1275.984	1275.984
9.5	1278.875	1286.585	1278.233	1267.953	1267.632
10.0	1272.771	1279.839	1270.201	1259.279	1258.637
10.5	1266.668	1273.093	1262.170	1250.284	1248.999
11.0	1260.243	1265.704	1253.497	1240.968	1239.683
11.5	1253.818	1258.315	1244.823	1231.331	1230.046
12.0	1247.072	1250.606	1235.828	1221.372	1220.087
12.5	1240.004	1242.574	1226.512	1211.092	1210.129
13.0	1232.937	1234.543	1217.196	1200.813	1199.849
13.5	1225.548	1226.191	1207.559	1190.533	1189.890
14.0	1218.160	1217.517	1197.600	1179.610	1178.968
14.5	1210.450	1209.165	1187.320	1168.688	1167.724
15.0	1202.740	1200.491	1177.041	1157.123	1156.802
15.5	1195.030	1191.175	1166.439	1145.880	1145.559
16.0	1186.999	1182.180	1155.838	1134.636	1133.994
16.5	1178.968	1172.864	1144.595	1122.750	1122.429
17.0	1170.937	1163.227	1133.351	1111.185	1110.543
17.5	1162.585	1153.268	1122.108	1099.299	1098.657
18.0	1153.911	1143.310	1110.543	1087.092	1086.450
18.5	1144.916	1133.351	1098.657	1074.885	1074.242
19.0	1136.242	1123.393	1087.092	1062.677	1062.035
19.5	1127.248	1113.113	1075.206	1050.470	1050.149
20.0	1118.253	1102.833	1062.999	1037.620	1037.620
20.5	1109.258	1092.232	1050.791	1025.413	1025.413
21.0	1099.942	1081.631	1038.263	1012.563	1013.206
21.5	1090.304	1071.030	1025.734	1000.035	1000.677
22.0	1080.667	1060.429	1013.206	987.506	988.470
22.5	1071.351	1049.828	1000.677	974.656	975.941
23.0	1062.035	1038.905	988.149	962.128	963.734
23.5	1052.719	1027.662	975.299	949.278	951.527
24.0	1043.403	1017.061	962.770	936.428	939.319
24.5	1033.765	1005.817	950.242	924.221	927.433
25.0	1024.128	994.895	937.713	911.692	915.547
25.5	1014.812	983.972	924.863	899.485	903.661
26.0	1005.175	973.050	912.656	886.957	892.096
26.5	995.859	961.807	899.806	874.428	880.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-840-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

27.0	986.221	950.884	887.278	862.221	869.288
27.5	976.905	939.962	874.749	850.335	857.723
28.0	967.589	929.040	862.542	838.449	846.480
28.5	957.952	918.117	850.335	826.563	835.879
29.0	948.314	907.195	838.127	814.998	824.635
29.5	938.998	896.594	826.241	803.433	813.713
30.0	929.682	885.672	814.034	791.868	803.433
30.5	920.687	874.749	802.148	780.625	792.832
31.0	911.692	864.148	789.941	769.381	782.552
31.5	902.055	853.547	778.376	758.459	772.272
32.0	892.739	842.625	766.490	747.536	761.992
32.5	883.423	832.024	754.604	736.614	752.034
33.0	873.786	821.744	743.039	725.692	742.075
33.5	864.791	811.143	731.474	715.091	732.438
34.0	855.153	800.542	719.909	704.811	722.801
34.5	845.837	790.262	708.987	694.210	713.163
35.0	836.521	779.661	697.743	684.251	703.847
35.5	827.526	769.060	686.500	673.971	694.531
36.0	818.210	758.780	675.256	664.013	685.215
36.5	808.894	748.500	664.655	654.054	676.220
37.0	799.578	738.220	654.054	644.096	667.225
37.5	790.262	728.262	643.453	634.458	658.230
38.0	781.267	718.303	633.173	625.142	649.236
38.5	771.951	708.023	622.893	615.826	640.562
39.0	762.314	697.743	612.614	606.831	631.888
39.5	753.319	688.106	602.655	597.515	623.536
40.0	744.003	678.148	593.018	588.842	615.184
40.5	735.008	668.510	583.380	579.847	606.831
41.0	725.371	658.552	574.064	571.173	598.479
41.5	716.376	649.236	564.748	562.821	590.448
42.0	707.060	639.598	555.432	554.468	582.095
42.5	698.065	630.282	546.437	546.116	574.064
43.0	688.749	620.645	537.442	537.442	566.354
43.5	679.433	611.329	528.769	529.411	558.323
44.0	670.116	602.013	520.095	521.380	550.613
44.5	661.122	592.696	511.743	513.349	542.904
45.0	651.805	583.702	503.069	505.318	534.872
45.5	642.489	574.386	494.717	497.608	527.163
46.0	633.495	565.069	486.686	489.577	519.453
46.5	624.500	556.075	478.655	481.867	511.743
47.0	615.505	547.080	470.623	474.157	503.712
47.5	606.189	538.085	462.592	466.769	496.002
48.0	596.873	529.090	454.882	459.059	488.292
48.5	587.557	520.095	446.851	451.349	480.582
49.0	578.883	511.422	439.463	443.639	472.872
49.5	569.246	502.427	431.753	436.250	465.484
50.0	560.251	493.753	424.043	428.540	457.774
50.5	551.256	485.079	416.654	421.152	450.385
51.0	541.940	476.406	409.266	413.763	442.675
51.5	532.945	467.411	402.198	406.053	434.644
52.0	523.308	458.737	394.810	398.665	427.255
52.5	514.313	450.064	387.742	391.276	419.546
53.0	505.318	441.711	380.996	384.209	411.836
53.5	496.323	433.038	373.929	376.820	404.126
54.0	487.007	424.685	366.861	369.431	396.416
54.5	478.012	416.654	360.115	362.364	388.706

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55.0	469.017	408.302	353.369	355.297	381.639
55.5	460.022	399.950	346.623	348.229	374.250
56.0	451.028	391.919	339.877	341.162	366.540
56.5	442.354	383.887	333.131	334.416	359.152
57.0	433.680	375.856	326.706	327.348	351.763
57.5	424.685	367.825	320.249	320.409	344.374
58.0	416.012	360.115	313.695	313.599	337.307
58.5	407.338	352.084	307.303	306.692	330.240
59.0	398.665	344.374	300.781	299.914	322.851
59.5	390.312	336.664	294.389	293.232	315.591
60.0	381.639	328.955	287.932	286.550	308.620
60.5	373.286	321.245	281.475	279.933	301.809
61.0	364.934	313.663	275.146	273.251	294.838
61.5	356.260	306.178	268.561	266.697	288.028
62.0	348.229	298.725	262.200	260.144	281.378
62.5	339.877	291.433	255.711	253.687	274.568
63.0	331.525	284.109	249.286	247.326	267.693
63.5	323.815	277.009	242.893	241.030	261.268
64.0	315.462	269.781	236.308	234.733	254.651
64.5	307.110	262.650	229.851	228.533	248.162
65.0	298.533	255.711	223.361	222.526	241.801
65.5	290.373	248.611	217.001	216.615	235.440
66.0	282.278	241.512	210.737	210.640	228.533
66.5	274.407	234.605	204.536	204.922	222.173
67.0	266.537	227.602	198.433	199.268	215.909
67.5	258.506	220.759	192.393	193.582	209.741
68.0	250.153	214.013	186.579	187.992	203.509
68.5	241.994	207.492	180.957	182.403	197.565
69.0	234.252	200.842	175.400	176.845	191.430
69.5	226.702	194.385	169.938	171.384	185.358
70.0	219.057	188.089	164.542	166.019	179.351
70.5	211.668	181.728	159.209	160.751	173.569
71.0	204.087	175.464	153.973	155.482	167.722
71.5	196.859	169.296	148.801	150.278	162.036
72.0	189.502	163.224	143.628	145.106	156.382
72.5	182.338	157.089	138.456	139.998	150.760
73.0	175.175	151.049	133.413	134.859	145.235
73.5	168.204	145.042	128.337	129.783	139.677
74.0	161.329	139.067	123.294	124.675	134.152
74.5	154.422	133.156	118.314	119.664	128.723
75.0	147.644	127.277	113.464	114.652	123.326
75.5	140.866	121.463	108.613	109.769	117.865
76.0	134.216	115.680	103.666	104.822	112.596
76.5	127.663	109.898	98.879	99.939	107.231
77.0	121.270	104.051	94.157	95.088	101.963
77.5	114.877	98.429	89.370	90.398	96.727
78.0	108.549	93.065	84.616	85.676	91.555
78.5	102.284	87.668	79.990	81.050	86.415
79.0	96.213	82.431	75.364	76.456	81.403
79.5	90.398	77.291	70.802	71.862	76.424
80.0	84.616	72.376	66.241	67.269	71.477
80.5	78.962	67.494	61.711	62.739	66.915
81.0	73.437	62.707	57.246	58.434	62.514
81.5	68.072	58.145	52.813	54.419	58.467
82.0	62.932	53.680	48.540	50.564	54.483
82.5	58.017	49.407	44.300	46.966	50.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : FRM-24-L25-840-DMA-DIM-UNV_.IES_.IES****CANDELA TABULATION - (Cont.)**

83.0	53.359	45.231	40.316	43.529	46.677
83.5	48.861	41.248	36.654	40.059	42.950
84.0	44.685	37.457	33.313	36.622	39.288
84.5	40.541	33.763	30.293	33.249	35.755
85.0	36.622	30.229	27.434	29.940	32.349
85.5	32.863	26.856	24.768	26.760	29.041
86.0	29.137	23.579	22.230	23.772	26.085
86.5	25.507	20.528	19.821	21.106	23.419
87.0	21.877	17.797	17.572	18.825	20.945
87.5	18.247	15.323	15.580	16.897	18.793
88.0	14.681	12.978	13.717	15.131	16.865
88.5	11.501	10.730	11.790	13.364	15.002
89.0	8.577	8.288	9.445	10.826	11.982
89.5	5.301	5.268	6.329	8.127	9.445
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-L25-840-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-L25-840-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-L25-840-DMA-DIM-UNV_.IES_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.24	N.A.	18.00
0-30	893.48	N.A.	35.40
0-40	1352.11	N.A.	53.50
0-60	2119.37	N.A.	83.90
0-80	2490.76	N.A.	98.60
0-90	2526.74	N.A.	100.00
10-90	2401.68	N.A.	95.10
20-40	896.88	N.A.	35.50
20-50	1318.87	N.A.	52.20
40-70	1008.44	N.A.	39.90
60-80	371.39	N.A.	14.70
70-80	130.21	N.A.	5.20
80-90	35.98	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	2526.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.06
10-20	330.18
20-30	438.24
30-40	458.63
40-50	421.99
50-60	345.27
60-70	241.18
70-80	130.21
80-90	35.98
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

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	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	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FRM-24-L25-840-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	12.0	13.6	12.4	13.9	14.2	11.0	12.5	11.3	12.8	13.1
	3H	13.7	15.1	14.1	15.4	15.8	12.6	14.0	13.0	14.3	14.7
	4H	14.3	15.6	14.7	16.0	16.3	13.2	14.5	13.6	14.9	15.2
	6H	14.7	15.9	15.2	16.3	16.7	13.6	14.8	14.1	15.2	15.6
	8H	14.9	16.0	15.3	16.4	16.8	13.8	14.9	14.2	15.3	15.7
	12H	15.0	16.0	15.4	16.4	16.9	13.9	15.0	14.3	15.4	15.8

UGR Viewed Endwise

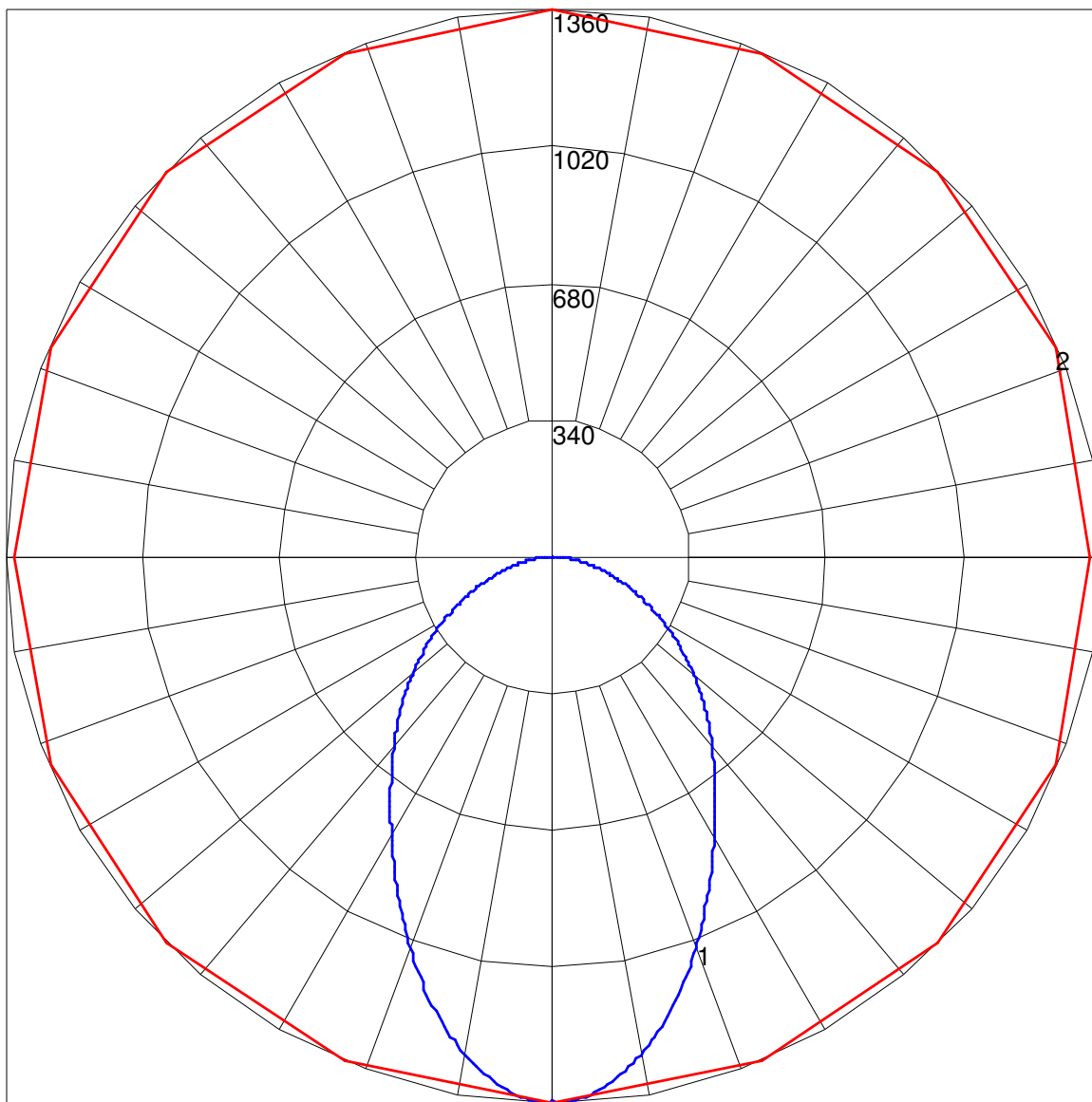
4H	2H	12.4	13.7	12.8	14.0	14.4	11.5	12.8	11.9	13.1	13.5
	3H	14.3	15.3	14.7	15.7	16.1	13.3	14.4	13.7	14.8	15.2
	4H	15.0	16.0	15.4	16.4	16.8	14.0	15.0	14.5	15.4	15.9
	6H	15.5	16.4	16.0	16.8	17.3	14.6	15.5	15.1	15.9	16.4
	8H	15.7	16.5	16.2	16.9	17.4	14.8	15.6	15.2	16.0	16.5
	12H	15.8	16.5	16.3	17.0	17.5	14.9	15.6	15.4	16.1	16.6

8H	4H	15.2	15.9	15.6	16.4	16.9	14.3	15.1	14.8	15.5	16.0
	6H	15.8	16.5	16.3	16.9	17.4	15.0	15.6	15.5	16.1	16.6
	8H	16.0	16.6	16.5	17.1	17.6	15.2	15.8	15.7	16.3	16.8
	12H	16.2	16.7	16.7	17.2	17.8	15.4	15.9	15.9	16.4	17.0

12H	4H	15.2	15.9	15.6	16.3	16.8	14.3	15.0	14.8	15.5	16.0
	6H	15.8	16.4	16.3	16.9	17.4	15.0	15.6	15.5	16.1	16.6
	8H	16.1	16.6	16.6	17.1	17.7	15.3	15.8	15.8	16.3	16.9

Maximum UGR = 17.8

POLAR GRAPH



Maximum Candela = 1359.508 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.)