



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-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-L25-840-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	2541
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	2491	2159	2538
55	2194	1873	2228
65	1892	1602	1913
75	1544	1334	1583
85	1080	816	1080

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-DMA-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1364.128	1364.128	1364.128	1364.128	1364.128
0.5	1358.918	1364.779	1367.059	1364.454	1358.918
1.0	1357.941	1364.128	1366.082	1364.128	1357.941
1.5	1356.964	1362.826	1365.105	1362.826	1356.964
2.0	1355.336	1361.197	1363.477	1360.872	1355.010
2.5	1353.056	1359.243	1361.197	1358.918	1353.056
3.0	1350.777	1356.638	1358.592	1356.313	1350.777
3.5	1347.846	1353.382	1355.336	1353.382	1347.520
4.0	1344.264	1349.800	1351.754	1350.125	1344.589
4.5	1340.356	1345.892	1347.846	1346.218	1341.007
5.0	1335.797	1341.333	1343.612	1341.984	1336.774
5.5	1330.912	1336.448	1338.728	1337.751	1332.541
6.0	1326.028	1330.912	1333.517	1332.866	1327.982
6.5	1320.166	1325.376	1327.982	1327.330	1322.771
7.0	1313.979	1319.189	1321.794	1321.469	1317.235
7.5	1307.466	1312.676	1315.281	1315.607	1311.374
8.0	1300.953	1305.512	1308.443	1309.420	1305.512
8.5	1293.789	1298.348	1301.604	1302.581	1298.673
9.0	1286.299	1290.532	1294.114	1295.417	1292.161
9.5	1278.809	1283.042	1286.299	1288.253	1284.996
10.0	1270.994	1274.901	1278.158	1280.437	1277.507
10.5	1262.852	1266.435	1270.342	1272.622	1270.342
11.0	1254.386	1257.968	1261.550	1264.481	1263.178
11.5	1245.593	1248.850	1252.757	1255.688	1255.037
12.0	1236.801	1239.732	1243.314	1247.221	1246.896
12.5	1228.008	1230.288	1233.870	1238.429	1238.429
13.0	1218.239	1220.844	1224.426	1229.311	1229.962
13.5	1209.447	1211.075	1214.657	1220.193	1221.496
14.0	1200.003	1201.306	1204.562	1211.075	1212.703
14.5	1189.908	1191.210	1194.141	1201.306	1203.585
15.0	1179.813	1181.115	1183.395	1191.536	1194.467
15.5	1170.044	1170.695	1172.649	1181.767	1185.023
16.0	1159.949	1159.949	1161.577	1171.672	1175.580
16.5	1149.528	1149.528	1150.830	1161.251	1165.810
17.0	1139.107	1138.456	1139.107	1150.505	1155.715
17.5	1128.687	1127.384	1127.710	1140.084	1146.271
18.0	1117.940	1116.312	1115.986	1129.012	1136.176
18.5	1107.194	1104.914	1104.263	1117.940	1125.756
19.0	1096.448	1093.191	1092.214	1106.868	1115.335
19.5	1085.701	1081.794	1080.165	1095.471	1104.589
20.0	1074.955	1070.070	1068.117	1083.748	1094.168
20.5	1063.558	1058.022	1055.742	1072.350	1083.422
21.0	1052.486	1046.298	1043.042	1060.627	1073.001
21.5	1041.088	1034.575	1030.342	1048.904	1061.929
22.0	1030.016	1022.852	1017.967	1036.855	1050.532
22.5	1019.270	1010.803	1005.267	1025.131	1039.785
23.0	1007.872	998.754	992.893	1013.083	1028.713
23.5	997.126	987.031	980.192	1001.359	1017.642
24.0	986.705	975.308	967.818	989.636	1006.570
24.5	975.633	963.259	955.118	977.587	995.823
25.0	964.887	951.536	942.417	965.538	985.077
25.5	954.141	939.812	929.717	953.489	974.331
26.0	943.394	928.415	917.343	942.092	964.236
26.5	932.974	917.017	904.968	930.369	953.164

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	922.553	905.620	892.594	918.971	943.069
27.5	912.132	894.222	880.219	907.573	932.648
28.0	902.363	883.150	867.845	896.176	922.227
28.5	891.942	872.078	855.796	884.778	912.132
29.0	882.173	861.006	843.747	873.381	902.037
29.5	872.078	850.260	831.372	861.983	891.617
30.0	861.983	839.188	819.324	850.911	881.522
30.5	852.214	828.442	807.275	839.839	871.427
31.0	842.444	817.695	795.226	828.767	861.657
31.5	832.675	806.949	783.503	817.695	851.562
32.0	822.580	796.528	771.779	806.949	841.793
32.5	812.811	786.108	760.382	795.877	832.024
33.0	803.367	775.361	748.659	784.805	821.929
33.5	793.598	765.266	737.261	774.059	812.159
34.0	784.154	754.520	725.863	763.313	802.064
34.5	774.710	744.425	714.791	752.241	792.621
35.0	765.592	734.005	703.719	741.494	782.851
35.5	756.148	723.909	692.648	731.074	772.756
36.0	747.030	713.814	681.901	720.653	763.313
36.5	737.912	703.719	671.155	710.232	753.869
37.0	728.794	693.950	660.409	699.812	744.100
37.5	719.676	684.181	649.988	689.391	734.330
38.0	710.884	674.737	639.893	679.622	724.886
38.5	702.091	665.293	629.798	669.527	715.443
39.0	692.973	655.524	619.703	659.757	706.325
39.5	684.506	646.080	609.934	649.988	697.207
40.0	675.714	636.962	600.164	640.219	688.089
40.5	666.596	627.844	590.721	630.449	678.970
41.0	657.804	618.726	581.277	621.006	669.852
41.5	649.337	609.608	572.159	611.888	661.060
42.0	640.544	601.141	562.715	602.444	652.268
42.5	631.752	592.023	553.597	593.651	643.475
43.0	622.959	583.556	544.805	584.533	634.683
43.5	614.493	574.764	536.012	575.741	625.890
44.0	606.026	566.297	527.220	566.948	617.098
44.5	597.559	557.830	518.753	557.830	608.305
45.0	588.767	549.364	510.286	549.038	599.839
45.5	580.300	540.571	501.819	540.571	591.046
46.0	571.833	532.430	493.353	531.779	582.254
46.5	563.041	523.963	485.211	522.986	573.787
47.0	554.574	515.497	477.070	514.194	564.669
47.5	545.782	507.030	468.929	505.727	556.202
48.0	537.315	498.563	461.114	497.260	547.410
48.5	529.174	490.422	453.298	488.794	538.617
49.0	520.707	481.955	445.483	480.327	530.151
49.5	512.240	473.814	437.993	471.860	521.032
50.0	503.773	465.347	430.177	463.393	512.566
50.5	495.306	457.206	422.688	454.926	503.773
51.0	486.840	449.065	415.523	446.785	495.306
51.5	478.373	440.598	408.359	438.644	486.514
52.0	470.232	432.783	401.195	430.503	478.047
52.5	461.765	424.641	394.031	422.362	469.581
53.0	453.624	416.826	386.867	414.221	460.788
53.5	445.157	408.685	379.702	406.405	452.321
54.0	436.690	401.195	372.864	398.590	443.855
54.5	428.875	393.380	366.025	390.774	435.388

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	420.734	385.564	359.187	382.959	427.247
55.5	412.593	378.074	352.674	375.469	419.431
56.0	404.451	370.584	345.835	367.979	411.290
56.5	396.310	363.095	338.997	360.164	402.823
57.0	388.495	355.930	332.484	352.674	395.008
57.5	380.354	348.440	325.645	345.510	386.867
58.0	372.538	340.951	319.035	338.345	378.725
58.5	364.723	333.786	312.522	330.856	370.584
59.0	356.582	326.622	305.976	323.757	362.443
59.5	348.766	319.263	299.431	316.397	354.628
60.0	340.951	311.936	292.755	309.037	346.487
60.5	333.461	304.576	286.210	301.775	338.671
61.0	326.297	297.282	279.762	294.546	330.856
61.5	318.709	290.117	273.151	287.284	323.203
62.0	311.480	283.214	266.573	280.218	315.648
62.5	304.185	276.408	259.898	273.086	308.288
63.0	296.891	269.699	253.026	266.215	300.636
63.5	289.499	262.828	246.123	259.604	293.048
64.0	282.074	256.022	239.447	252.668	285.428
64.5	274.780	249.314	232.869	245.927	277.775
65.0	267.355	242.606	226.258	239.414	270.220
65.5	259.670	235.995	219.811	232.869	262.893
66.0	252.310	229.417	213.265	226.617	255.534
66.5	244.820	222.872	206.720	220.299	247.881
67.0	237.819	216.391	200.370	214.014	240.880
67.5	230.785	209.976	194.150	207.957	233.781
68.0	223.783	203.724	188.288	201.900	226.845
68.5	216.750	197.536	182.720	195.745	219.941
69.0	209.911	191.382	177.412	189.786	213.330
69.5	203.365	185.357	172.169	183.924	206.785
70.0	196.625	179.398	166.926	178.193	200.044
70.5	190.079	173.374	161.715	172.494	193.433
71.0	183.534	167.414	156.473	166.926	187.018
71.5	177.021	161.585	151.197	161.292	180.701
72.0	170.573	155.854	146.019	155.724	174.220
72.5	164.255	150.122	140.874	150.253	167.870
73.0	157.938	144.489	135.794	144.814	161.553
73.5	151.751	138.823	130.714	139.311	155.365
74.0	145.629	133.254	125.667	133.808	149.373
74.5	139.539	127.620	120.554	128.337	143.121
75.0	133.547	122.052	115.441	122.931	136.999
75.5	127.523	116.483	110.459	117.525	130.844
76.0	121.596	110.882	105.411	112.055	124.755
76.5	115.799	105.346	100.429	106.519	118.665
77.0	109.938	99.875	95.414	100.950	112.641
77.5	104.109	94.372	90.529	95.642	106.616
78.0	98.345	89.129	85.710	90.464	100.722
78.5	92.614	84.016	80.858	85.287	94.958
79.0	86.915	78.871	76.071	80.337	89.031
79.5	81.346	73.726	71.316	75.354	83.333
80.0	75.843	68.744	66.529	70.372	77.666
80.5	70.437	63.892	61.873	65.455	72.098
81.0	65.227	59.072	57.248	60.603	66.725
81.5	60.277	54.350	52.787	55.848	61.482
82.0	55.360	49.759	48.261	51.191	56.434
82.5	50.833	45.395	43.767	46.698	51.615

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	46.535	41.357	39.208	42.366	47.056
83.5	42.594	37.645	34.811	38.263	42.725
84.0	38.784	34.225	30.676	34.486	38.752
84.5	35.072	31.001	26.898	30.969	35.039
85.0	31.457	27.973	23.772	27.712	31.457
85.5	27.810	24.879	21.232	24.489	28.005
86.0	24.423	21.851	19.083	21.427	24.586
86.5	21.167	18.920	17.096	18.529	21.525
87.0	18.301	16.119	15.208	15.891	18.757
87.5	15.566	13.612	13.319	13.677	16.282
88.0	13.058	11.463	11.332	11.788	13.970
88.5	10.583	9.444	9.053	9.802	11.658
89.0	7.425	6.806	6.024	6.741	8.727
89.5	2.931	3.224	2.833	2.996	4.071
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FRM-22-L25-840-DMA-DIM-UNV_.IES

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-22-L25-840-DMA-DIM-UNV_.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-22-L25-840-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-L25-840-DMA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	458.14	N.A.	18.00
0-30	898.93	N.A.	35.40
0-40	1360.98	N.A.	53.60
0-60	2133.69	N.A.	84.00
0-80	2507.44	N.A.	98.70
0-90	2541.03	N.A.	100.00
10-90	2415.09	N.A.	95.00
20-40	902.84	N.A.	35.50
20-50	1328.02	N.A.	52.30
40-70	1015.31	N.A.	40.00
60-80	373.75	N.A.	14.70
70-80	131.15	N.A.	5.20
80-90	33.59	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	2541.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.94
10-20	332.20
20-30	440.79
30-40	462.05
40-50	425.18
50-60	347.54
60-70	242.59
70-80	131.15
80-90	33.59
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-L25-840-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-L25-840-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

X=2H	Y=2H	14.0	15.5	14.4	15.9	16.2	14.0	15.5	14.4	15.8	16.1
	3H	15.6	17.0	16.0	17.4	17.7	15.6	17.0	16.0	17.3	17.7
	4H	16.2	17.5	16.6	17.9	18.3	16.3	17.6	16.7	17.9	18.3
	6H	16.7	17.9	17.1	18.2	18.6	16.7	17.9	17.1	18.3	18.6
	8H	16.8	17.9	17.2	18.3	18.7	16.8	18.0	17.3	18.3	18.7
	12H	16.8	17.9	17.3	18.3	18.7	16.9	18.0	17.3	18.4	18.8

UGR Viewed Endwise

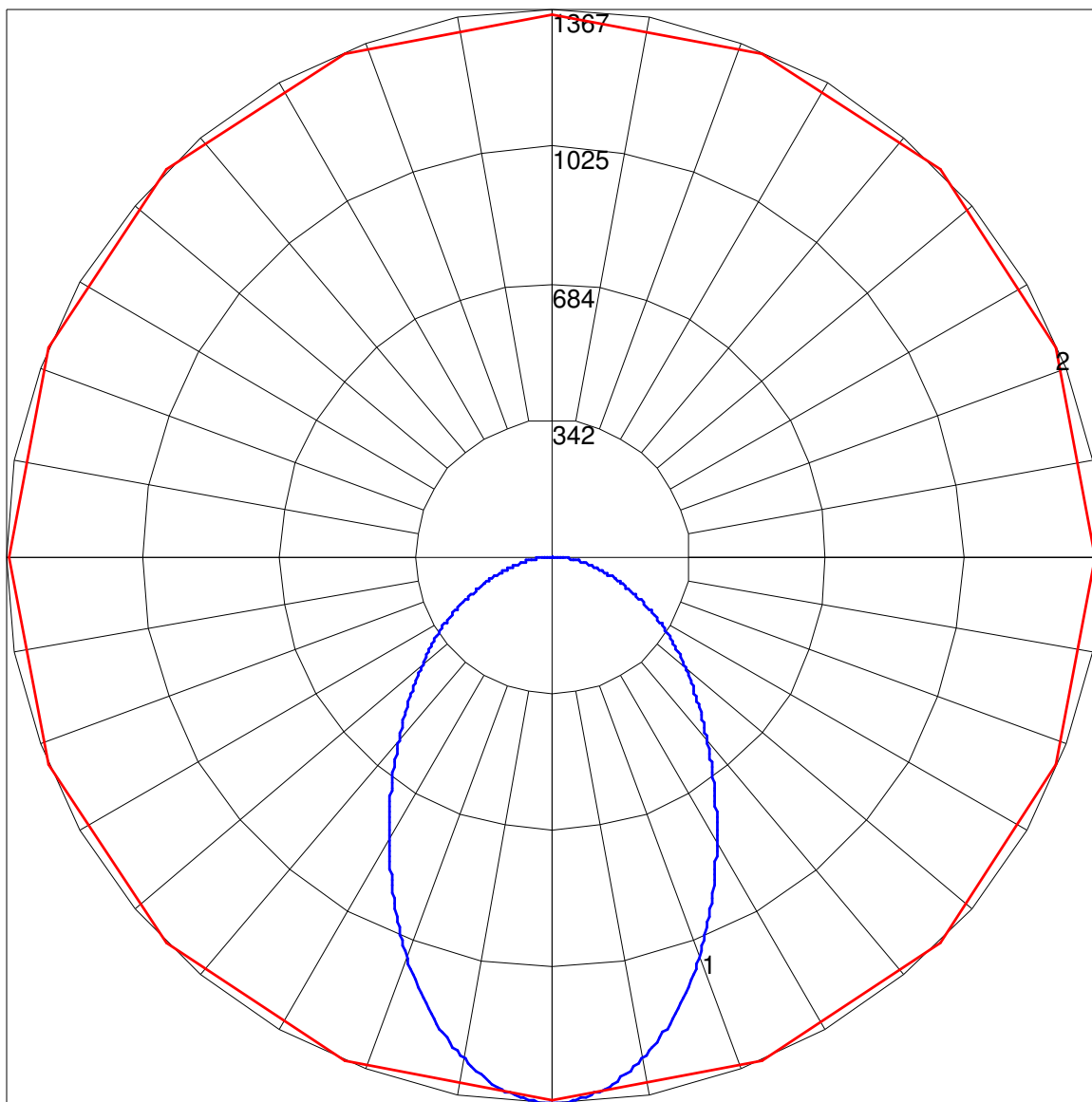
4H	2H	14.4	15.7	14.8	16.1	16.5	14.4	15.7	14.8	16.1	16.4
	3H	16.3	17.4	16.7	17.8	18.2	16.3	17.4	16.7	17.8	18.2
	4H	17.0	18.0	17.4	18.4	18.8	17.0	18.0	17.4	18.4	18.8
	6H	17.5	18.4	18.0	18.8	19.3	17.6	18.4	18.0	18.9	19.3
	8H	17.7	18.5	18.2	18.9	19.4	17.7	18.5	18.2	19.0	19.4
	12H	17.8	18.5	18.3	19.0	19.5	17.9	18.6	18.3	19.0	19.5

8H	4H	17.2	18.0	17.7	18.5	18.9	17.2	18.0	17.7	18.5	18.9
	6H	17.8	18.5	18.3	19.0	19.5	17.9	18.5	18.4	19.0	19.5
	8H	18.0	18.6	18.6	19.1	19.6	18.1	18.7	18.6	19.2	19.7
	12H	18.2	18.7	18.7	19.2	19.8	18.3	18.8	18.8	19.3	19.8

12H	4H	17.2	17.9	17.7	18.4	18.9	17.3	18.0	17.7	18.4	18.9
	6H	17.9	18.5	18.4	18.9	19.5	17.9	18.5	18.4	19.0	19.5
	8H	18.1	18.6	18.6	19.1	19.7	18.2	18.7	18.7	19.2	19.7

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 1367.059 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.)