



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 15034137.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] SEPT 2024
[TESTDATE] 10 SEPT 2024
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MX2S-4-00-L12-835-FW-(L10)-DIM-UNV
[LUMINAIRE] 2 INCH WIDE SURFACE MOUNT LED LUMINAIRE
[MORE] WITH FLAT DIFFUSE, WIDE DIST LENS
[LAMP] 80 CRI 3500K CCT LED
[BALLAST] 0-10V DIMMING DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16656	21209	22033
55	15596	20000	20174
65	14336	18592	18237
75	11960	15365	14894
85	7020	9318	9318

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1234.280	1234.280	1234.280	1234.280	1234.280
0.5	1253.618	1236.802	1229.235	1232.598	1224.190
1.0	1253.618	1236.802	1230.076	1233.439	1225.031
1.5	1252.777	1235.961	1230.076	1234.280	1225.872
2.0	1252.777	1235.961	1230.076	1235.120	1226.713
2.5	1251.936	1235.961	1230.917	1235.961	1228.394
3.0	1251.095	1235.120	1230.917	1237.643	1230.076
3.5	1250.255	1234.280	1231.757	1238.484	1231.757
4.0	1249.414	1233.439	1231.757	1240.165	1233.439
4.5	1247.732	1232.598	1231.757	1241.847	1235.120
5.0	1246.051	1231.757	1232.598	1243.528	1236.802
5.5	1244.369	1230.917	1233.439	1245.210	1239.324
6.0	1242.688	1230.076	1233.439	1246.892	1241.006
6.5	1241.006	1228.394	1234.280	1248.573	1243.528
7.0	1238.484	1227.553	1234.280	1250.255	1246.051
7.5	1235.961	1225.872	1234.280	1252.777	1248.573
8.0	1234.280	1224.190	1235.120	1254.459	1251.936
8.5	1230.917	1223.349	1235.120	1256.981	1254.459
9.0	1228.394	1221.668	1235.120	1258.663	1257.822
9.5	1225.872	1219.986	1235.961	1261.185	1260.344
10.0	1222.509	1217.464	1235.961	1262.867	1262.867
10.5	1219.145	1215.782	1235.961	1264.548	1265.389
11.0	1215.782	1213.260	1235.961	1267.070	1267.911
11.5	1212.419	1210.738	1235.961	1268.752	1271.274
12.0	1209.056	1209.056	1235.961	1271.274	1272.956
12.5	1204.852	1206.534	1235.961	1272.956	1276.319
13.0	1200.648	1204.011	1235.961	1274.638	1278.842
13.5	1196.444	1200.648	1235.961	1276.319	1281.364
14.0	1192.240	1198.126	1235.120	1278.001	1283.886
14.5	1188.036	1194.763	1235.120	1279.682	1286.409
15.0	1182.991	1192.240	1234.280	1281.364	1288.090
15.5	1178.788	1188.877	1233.439	1283.045	1290.613
16.0	1173.743	1185.514	1233.439	1284.727	1293.135
16.5	1168.698	1182.151	1232.598	1285.568	1294.817
17.0	1163.653	1178.788	1230.917	1286.409	1296.498
17.5	1158.609	1175.424	1230.076	1287.249	1298.180
18.0	1153.564	1172.061	1229.235	1288.090	1299.021
18.5	1147.678	1167.857	1228.394	1288.931	1299.861
19.0	1141.793	1163.653	1226.713	1288.931	1300.702
19.5	1135.907	1159.449	1225.031	1288.931	1299.861
20.0	1130.022	1155.245	1223.349	1288.090	1299.861
20.5	1124.136	1151.041	1221.668	1287.249	1299.021
21.0	1117.410	1146.838	1219.986	1286.409	1298.180
21.5	1111.524	1141.793	1218.305	1285.568	1296.498
22.0	1104.798	1136.748	1215.782	1283.886	1294.817
22.5	1098.072	1131.703	1213.260	1282.205	1293.976
23.0	1092.186	1126.659	1211.578	1279.682	1292.294
23.5	1084.619	1121.614	1208.215	1277.160	1290.613
24.0	1077.893	1115.728	1205.693	1275.478	1288.931
24.5	1071.166	1110.684	1202.330	1272.956	1286.409
25.0	1064.440	1104.798	1198.967	1270.434	1283.886
25.5	1057.714	1098.912	1195.603	1267.911	1280.523
26.0	1050.147	1093.027	1192.240	1265.389	1278.001
26.5	1042.580	1087.141	1188.036	1262.867	1274.638

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CANDELA TABULATION - (Cont.)

27.0	1035.853	1081.256	1183.832	1259.503	1271.274
27.5	1028.286	1074.530	1180.469	1256.140	1267.911
28.0	1020.719	1068.644	1176.265	1252.777	1263.707
28.5	1013.152	1061.918	1172.061	1249.414	1259.503
29.0	1005.585	1056.032	1167.857	1245.210	1255.299
29.5	998.018	1049.306	1163.653	1241.006	1251.095
30.0	989.610	1042.580	1158.609	1235.961	1246.051
30.5	982.043	1036.694	1153.564	1230.917	1241.006
31.0	973.635	1029.968	1148.519	1225.031	1235.120
31.5	965.227	1023.241	1143.474	1219.145	1229.235
32.0	957.660	1015.674	1138.430	1213.260	1223.349
32.5	949.252	1008.948	1132.544	1207.374	1215.782
33.0	940.844	1002.222	1126.659	1200.648	1209.056
33.5	932.436	994.655	1119.932	1193.922	1201.489
34.0	924.869	987.928	1114.047	1186.355	1193.081
34.5	916.461	980.361	1107.320	1178.788	1184.673
35.0	908.053	972.794	1100.594	1171.220	1176.265
35.5	899.645	965.227	1093.868	1162.813	1167.857
36.0	890.397	956.819	1086.301	1154.405	1158.609
36.5	881.989	949.252	1078.734	1145.997	1149.360
37.0	873.581	940.844	1071.166	1137.589	1140.111
37.5	865.173	932.436	1063.599	1128.340	1130.022
38.0	855.924	924.028	1055.191	1119.091	1120.773
38.5	847.516	915.620	1046.784	1109.843	1110.684
39.0	838.268	906.372	1039.216	1100.594	1100.594
39.5	829.271	897.964	1030.809	1090.505	1090.505
40.0	820.443	889.556	1022.401	1080.415	1079.574
40.5	811.699	880.307	1013.993	1070.326	1068.644
41.0	802.618	871.899	1005.585	1060.236	1058.555
41.5	794.042	863.491	996.336	1050.147	1046.784
42.0	785.046	855.083	987.928	1040.057	1035.853
42.5	776.133	845.835	978.680	1029.127	1024.923
43.0	767.137	837.006	969.431	1018.197	1013.152
43.5	758.393	828.262	960.182	1007.266	1002.222
44.0	749.648	819.518	950.933	996.336	991.291
44.5	740.484	810.774	940.844	986.247	979.520
45.0	731.571	801.777	931.595	974.476	967.749
45.5	722.911	792.781	921.506	963.545	956.819
46.0	713.663	783.532	911.416	952.615	945.048
46.5	704.834	774.368	901.327	940.844	933.277
47.0	695.670	765.035	891.237	929.914	921.506
47.5	686.589	755.702	880.307	918.143	908.894
48.0	677.256	746.201	870.218	906.372	897.123
48.5	667.839	736.532	859.287	894.601	884.511
49.0	658.927	727.031	848.357	882.829	872.740
49.5	652.789	717.362	837.931	870.218	860.128
50.0	645.474	707.357	826.749	858.447	847.516
50.5	638.664	697.267	815.734	846.676	834.652
51.0	629.499	687.430	804.384	833.727	821.788
51.5	620.251	677.424	793.117	821.200	808.924
52.0	611.002	667.335	781.598	808.504	796.144
52.5	601.585	657.077	769.911	796.060	783.364
53.0	592.252	651.192	758.393	783.364	770.500
53.5	583.088	643.877	746.958	770.836	757.300
54.0	573.923	634.544	735.271	758.224	744.604
54.5	564.675	624.371	723.920	745.613	731.740

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CANDELA TABULATION - (Cont.)

55.0	555.678	614.365	712.570	733.169	718.791
55.5	546.513	604.444	701.051	720.809	706.264
56.0	537.685	594.439	690.036	708.197	693.820
56.5	528.605	584.685	678.602	695.754	680.788
57.0	519.608	574.932	666.999	683.226	668.512
57.5	510.696	565.179	655.900	670.782	656.068
58.0	501.868	555.342	648.249	659.348	647.576
58.5	492.787	545.589	639.169	649.931	637.403
59.0	483.706	535.835	627.986	639.757	626.557
59.5	474.878	525.998	616.383	628.911	614.197
60.0	466.134	516.245	604.780	616.551	602.090
60.5	457.474	506.324	593.093	604.108	589.730
61.0	448.646	496.571	581.406	591.664	577.202
61.5	439.817	486.733	569.803	579.220	564.759
62.0	430.905	476.812	558.285	566.524	552.147
62.5	421.824	466.891	546.513	553.828	539.535
63.0	412.744	456.801	534.826	541.385	527.175
63.5	403.915	446.712	523.224	528.773	514.900
64.0	394.751	436.622	511.453	516.581	502.540
64.5	385.586	426.449	499.766	504.054	490.685
65.0	376.338	416.275	488.079	491.862	478.746
65.5	367.257	405.849	476.139	479.671	466.722
66.0	358.008	395.508	464.200	467.395	454.867
66.5	348.928	385.166	452.093	454.951	442.928
67.0	339.595	374.740	439.985	442.424	430.737
67.5	330.094	364.314	427.794	430.064	418.629
68.0	320.845	353.888	415.434	417.536	406.186
68.5	311.429	343.715	403.243	404.672	393.490
69.0	301.928	333.121	390.715	391.724	380.794
69.5	292.511	322.695	378.103	378.776	368.098
70.0	283.094	312.017	365.660	366.164	355.486
70.5	273.845	301.675	353.132	353.552	343.126
71.0	264.597	291.502	340.856	340.940	331.019
71.5	255.096	281.160	328.665	328.665	318.912
72.0	245.847	271.071	316.642	316.642	306.972
72.5	236.766	261.065	304.702	304.618	295.370
73.0	227.770	251.144	292.931	292.763	283.851
73.5	218.774	241.223	281.244	281.244	272.500
74.0	209.693	231.554	269.809	269.725	261.402
74.5	200.949	221.969	258.375	258.459	250.471
75.0	192.289	212.299	247.024	247.108	239.457
75.5	183.544	202.714	235.926	235.673	228.611
76.0	174.884	193.129	224.659	224.575	217.849
76.5	166.476	183.797	213.729	213.477	207.255
77.0	158.069	174.212	202.714	202.378	196.577
77.5	149.661	164.879	191.700	191.364	186.067
78.0	141.169	155.462	180.938	180.518	175.725
78.5	132.677	146.045	170.176	169.755	165.383
79.0	124.269	136.965	159.666	159.077	155.126
79.5	116.113	127.800	149.240	148.652	145.373
80.0	108.210	118.888	139.151	138.394	135.535
80.5	100.306	109.975	129.145	128.473	126.034
81.0	92.403	101.399	119.308	118.635	116.449
81.5	84.752	93.075	109.723	109.050	107.453
82.0	77.269	85.004	100.306	99.802	98.457
82.5	70.206	77.100	91.226	90.973	89.796

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CANDELA TABULATION - (Cont.)

83.0	63.311	69.533	82.566	82.397	81.388
83.5	56.417	62.303	74.074	73.990	73.233
84.0	49.943	55.324	65.834	66.170	65.329
84.5	43.889	48.598	57.930	58.351	57.594
85.0	38.004	42.292	50.447	50.952	50.447
85.5	32.370	36.238	43.301	43.889	43.637
86.0	27.158	30.521	36.406	37.247	37.079
86.5	22.365	25.140	30.100	31.025	30.773
87.0	17.909	20.095	24.215	25.224	25.140
87.5	13.789	15.471	18.834	19.927	19.843
88.0	10.089	11.351	14.041	15.134	15.134
88.5	6.894	7.735	9.837	10.762	11.014
89.0	4.120	4.793	6.306	7.231	7.399
89.5	2.018	2.522	3.615	4.456	4.624
90.0	0.841	1.177	1.850	2.522	2.691
90.5	0.420	0.589	0.925	1.261	1.429
91.0	0.420	0.420	0.589	0.673	0.757
91.5	0.420	0.420	0.504	0.504	0.504
92.0	0.420	0.420	0.420	0.420	0.420
92.5	0.420	0.420	0.420	0.420	0.420
93.0	0.420	0.420	0.420	0.420	0.420
93.5	0.420	0.420	0.420	0.420	0.420
94.0	0.336	0.420	0.420	0.420	0.420
94.5	0.336	0.336	0.420	0.420	0.420
95.0	0.336	0.336	0.420	0.336	0.336
95.5	0.336	0.336	0.336	0.336	0.336
96.0	0.336	0.336	0.336	0.336	0.336
96.5	0.336	0.336	0.336	0.336	0.336
97.0	0.336	0.336	0.336	0.336	0.336
97.5	0.336	0.336	0.336	0.336	0.336
98.0	0.336	0.336	0.336	0.336	0.336
98.5	0.336	0.336	0.336	0.336	0.336
99.0	0.336	0.336	0.336	0.336	0.336
99.5	0.252	0.336	0.336	0.336	0.336
100.0	0.252	0.336	0.336	0.336	0.336
100.5	0.252	0.336	0.336	0.336	0.336
101.0	0.252	0.336	0.336	0.336	0.336
101.5	0.252	0.252	0.336	0.336	0.336
102.0	0.252	0.252	0.336	0.336	0.336
102.5	0.252	0.252	0.336	0.336	0.336
103.0	0.252	0.252	0.336	0.336	0.336
103.5	0.252	0.252	0.252	0.336	0.252
104.0	0.252	0.252	0.252	0.252	0.336
104.5	0.252	0.252	0.336	0.336	0.336
105.0	0.252	0.252	0.252	0.336	0.252
105.5	0.252	0.252	0.252	0.252	0.252
106.0	0.252	0.252	0.252	0.336	0.252
106.5	0.252	0.252	0.252	0.252	0.336
107.0	0.252	0.252	0.252	0.336	0.252
107.5	0.252	0.252	0.252	0.252	0.252
108.0	0.252	0.252	0.252	0.336	0.336
108.5	0.252	0.252	0.336	0.336	0.336
109.0	0.252	0.252	0.336	0.336	0.336
109.5	0.252	0.252	0.252	0.336	0.336
110.0	0.252	0.252	0.336	0.336	0.336
110.5	0.252	0.252	0.336	0.336	0.336

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CANDELA TABULATION - (Cont.)

111.0	0.252	0.252	0.336	0.336	0.336
111.5	0.252	0.252	0.336	0.336	0.336
112.0	0.252	0.252	0.336	0.336	0.336
112.5	0.252	0.336	0.336	0.336	0.336
113.0	0.252	0.336	0.336	0.336	0.336
113.5	0.252	0.336	0.336	0.336	0.336
114.0	0.336	0.336	0.336	0.336	0.336
114.5	0.336	0.336	0.336	0.336	0.336
115.0	0.336	0.336	0.336	0.336	0.336
115.5	0.336	0.336	0.336	0.420	0.336
116.0	0.336	0.336	0.420	0.420	0.420
116.5	0.336	0.336	0.420	0.420	0.420
117.0	0.336	0.336	0.420	0.420	0.420
117.5	0.336	0.420	0.420	0.420	0.420
118.0	0.336	0.420	0.420	0.420	0.420
118.5	0.420	0.420	0.420	0.420	0.420
119.0	0.420	0.420	0.420	0.504	0.504
119.5	0.420	0.420	0.504	0.504	0.504
120.0	0.420	0.420	0.504	0.504	0.504
120.5	0.420	0.420	0.504	0.504	0.504
121.0	0.420	0.504	0.504	0.504	0.504
121.5	0.420	0.504	0.504	0.504	0.504
122.0	0.504	0.504	0.504	0.589	0.589
122.5	0.504	0.504	0.589	0.589	0.589
123.0	0.504	0.504	0.589	0.589	0.589
123.5	0.504	0.504	0.589	0.589	0.589
124.0	0.504	0.589	0.589	0.673	0.673
124.5	0.504	0.589	0.589	0.673	0.673
125.0	0.589	0.589	0.673	0.673	0.673
125.5	0.589	0.589	0.673	0.673	0.673
126.0	0.589	0.589	0.673	0.673	0.673
126.5	0.589	0.673	0.673	0.757	0.757
127.0	0.673	0.673	0.757	0.757	0.757
127.5	0.673	0.673	0.757	0.757	0.757
128.0	0.673	0.673	0.757	0.757	0.757
128.5	0.673	0.673	0.757	0.841	0.841
129.0	0.673	0.757	0.757	0.841	0.841
129.5	0.757	0.757	0.841	0.841	0.841
130.0	0.757	0.757	0.841	0.841	0.841
130.5	0.757	0.757	0.841	0.925	0.925
131.0	0.757	0.757	0.841	0.925	0.925
131.5	0.757	0.841	0.925	0.925	0.925
132.0	0.841	0.841	0.925	0.925	1.009
132.5	0.841	0.841	0.925	1.009	1.009
133.0	0.841	0.841	0.925	1.009	1.009
133.5	0.841	0.925	1.009	1.009	1.009
134.0	0.925	0.925	1.009	1.009	1.009
134.5	0.925	0.925	1.009	1.093	1.093
135.0	0.925	0.925	1.009	1.093	1.093
135.5	0.925	1.009	1.009	1.093	1.093
136.0	1.009	1.009	1.093	1.093	1.093
136.5	1.009	1.009	1.093	1.177	1.177
137.0	1.009	1.009	1.093	1.177	1.177
137.5	1.009	1.093	1.093	1.177	1.177
138.0	1.009	1.093	1.177	1.177	1.177
138.5	1.093	1.093	1.177	1.177	1.261

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	1.093	1.093	1.177	1.261	1.261
139.5	1.093	1.093	1.177	1.261	1.261
140.0	1.093	1.177	1.177	1.261	1.261
140.5	1.177	1.177	1.261	1.261	1.261
141.0	1.177	1.177	1.261	1.261	1.345
141.5	1.177	1.177	1.261	1.345	1.345
142.0	1.177	1.261	1.261	1.345	1.345
142.5	1.261	1.261	1.261	1.345	1.345
143.0	1.261	1.261	1.345	1.345	1.429
143.5	1.261	1.261	1.345	1.429	1.429
144.0	1.261	1.261	1.345	1.429	1.429
144.5	1.261	1.345	1.345	1.429	1.429
145.0	1.345	1.345	1.429	1.429	1.429
145.5	1.345	1.345	1.429	1.429	1.429
146.0	1.345	1.345	1.429	1.513	1.513
146.5	1.345	1.345	1.429	1.513	1.513
147.0	1.429	1.429	1.429	1.513	1.513
147.5	1.429	1.429	1.513	1.513	1.513
148.0	1.429	1.429	1.513	1.513	1.513
148.5	1.429	1.429	1.513	1.598	1.598
149.0	1.429	1.513	1.513	1.598	1.598
149.5	1.513	1.513	1.513	1.598	1.598
150.0	1.513	1.513	1.598	1.598	1.598
150.5	1.513	1.513	1.598	1.598	1.598
151.0	1.513	1.513	1.598	1.598	1.598
151.5	1.513	1.513	1.598	1.682	1.682
152.0	1.513	1.598	1.598	1.682	1.682
152.5	1.598	1.598	1.598	1.682	1.682
153.0	1.598	1.598	1.682	1.682	1.682
153.5	1.598	1.598	1.682	1.682	1.682
154.0	1.598	1.598	1.682	1.682	1.682
154.5	1.598	1.598	1.682	1.682	1.682
155.0	1.598	1.682	1.682	1.682	1.682
155.5	1.682	1.682	1.682	1.766	1.766
156.0	1.682	1.682	1.682	1.766	1.766
156.5	1.682	1.682	1.682	1.766	1.766
157.0	1.682	1.682	1.682	1.766	1.766
157.5	1.682	1.682	1.766	1.766	1.766
158.0	1.682	1.682	1.766	1.766	1.766
158.5	1.682	1.766	1.766	1.766	1.766
159.0	1.766	1.766	1.766	1.766	1.766
159.5	1.766	1.766	1.766	1.766	1.766
160.0	1.766	1.766	1.766	1.766	1.766
160.5	1.766	1.766	1.766	1.766	1.766
161.0	1.766	1.766	1.766	1.850	1.766
161.5	1.766	1.766	1.766	1.850	1.850
162.0	1.766	1.766	1.766	1.850	1.850
162.5	1.850	1.766	1.766	1.850	1.850
163.0	1.850	1.766	1.766	1.850	1.850
163.5	1.850	1.766	1.850	1.850	1.850
164.0	1.850	1.766	1.850	1.850	1.850
164.5	1.850	1.766	1.850	1.850	1.850
165.0	1.850	1.850	1.850	1.850	1.850
165.5	1.850	1.850	1.850	1.850	1.850
166.0	1.850	1.850	1.850	1.850	1.934
166.5	1.850	1.850	1.850	1.850	1.934

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	1.850	1.850	1.850	1.934	1.934
167.5	1.850	1.850	1.850	1.934	1.934
168.0	1.934	1.850	1.850	1.934	1.934
168.5	1.934	1.850	1.850	1.934	1.934
169.0	1.934	1.850	1.934	1.934	1.934
169.5	1.934	1.850	1.934	1.934	1.934
170.0	1.934	1.934	1.934	1.934	1.934
170.5	1.934	1.934	1.934	1.934	1.934
171.0	1.934	1.934	1.934	1.934	1.934
171.5	1.934	1.934	1.934	1.934	1.934
172.0	1.934	1.934	1.934	1.934	1.934
172.5	1.934	1.934	1.934	1.934	2.018
173.0	1.934	1.934	1.934	1.934	2.018
173.5	1.934	1.934	1.934	1.934	2.018
174.0	1.934	1.934	1.934	1.934	2.018
174.5	1.934	1.934	1.934	1.934	2.018
175.0	1.934	1.934	1.934	1.934	2.018
175.5	1.934	1.934	1.934	1.934	2.018
176.0	1.934	1.934	1.934	2.018	2.018
176.5	1.934	1.934	1.934	2.018	2.018
177.0	1.934	1.934	1.934	2.018	2.018
177.5	1.934	1.934	1.934	2.018	2.018
178.0	1.934	1.934	1.934	2.018	2.018
178.5	1.934	1.934	2.018	2.018	2.018
179.0	1.934	1.934	2.018	2.018	2.018
179.5	1.934	1.934	2.018	2.018	2.018
180.0	2.018	2.018	2.018	2.018	2.018

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	467.75	N.A.	12.50
0-30	1014.93	N.A.	27.20
0-40	1684.09	N.A.	45.10
0-60	2973.08	N.A.	79.70
0-80	3668.16	N.A.	98.30
0-90	3725.79	N.A.	99.90
10-90	3607.58	N.A.	96.70
20-40	1216.34	N.A.	32.60
20-50	1901.74	N.A.	51.00
40-70	1739.53	N.A.	46.60
60-80	695.08	N.A.	18.60
70-80	244.55	N.A.	6.60
80-90	57.63	N.A.	1.50
90-110	0.79	N.A.	0.00
90-120	1.15	N.A.	0.00
90-130	1.72	N.A.	0.00
90-150	3.37	N.A.	0.10
90-180	4.84	N.A.	0.10
110-180	4.05	N.A.	0.10
0-180	3730.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.20
10-20	349.54
20-30	547.18
30-40	669.16
40-50	685.40
50-60	603.60
60-70	450.53
70-80	244.55
80-90	57.63
90-100	0.49
100-110	0.31
110-120	0.36
120-130	0.56
130-140	0.78
140-150	0.87
150-160	0.77
160-170	0.52
170-180	0.19

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-(L10)-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	21.6	23.2	22.0	23.5	23.9	22.9	24.5	23.3	24.8	25.1
	3H	23.3	24.7	23.7	25.1	25.4	24.6	26.1	25.0	26.4	26.8
	4H	23.8	25.2	24.2	25.6	26.0	25.2	26.6	25.6	26.9	27.3
	6H	24.2	25.5	24.6	25.9	26.3	25.6	26.9	26.0	27.2	27.6
	8H	24.3	25.6	24.8	26.0	26.4	25.7	26.9	26.1	27.3	27.7
	12H	24.4	25.6	24.8	25.9	26.4	25.7	26.9	26.2	27.3	27.7

UGR Viewed Endwise

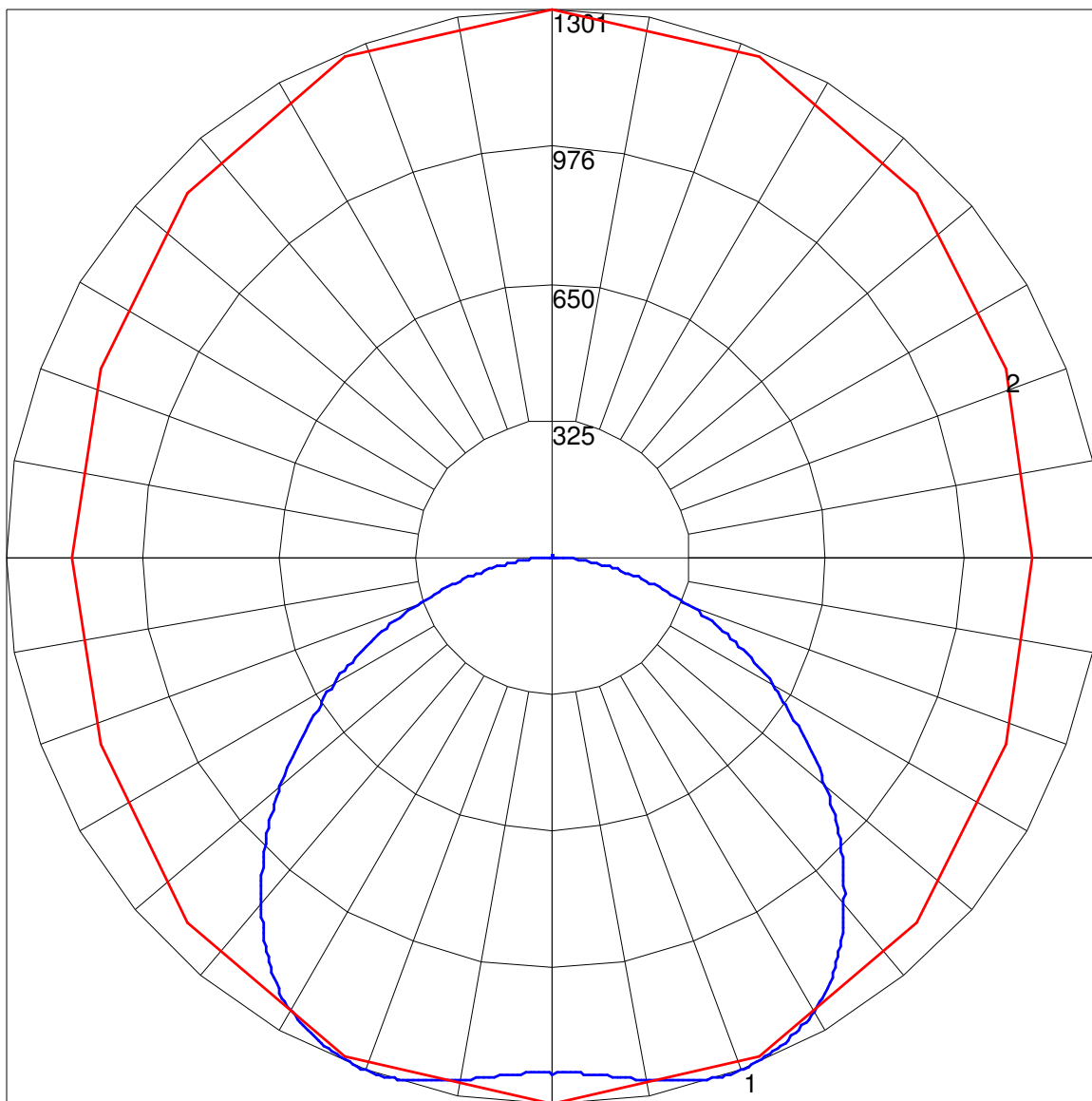
4H	2H	22.5	23.9	22.9	24.3	24.6	23.5	24.9	23.9	25.2	25.6
	3H	24.4	25.5	24.8	25.9	26.3	25.4	26.6	25.8	27.0	27.4
	4H	25.0	26.1	25.5	26.5	26.9	26.1	27.2	26.6	27.6	28.0
	6H	25.5	26.4	26.0	26.9	27.3	26.6	27.6	27.1	28.0	28.5
	8H	25.7	26.5	26.1	27.0	27.4	26.8	27.6	27.3	28.1	28.6
	12H	25.7	26.5	26.2	27.0	27.4	26.9	27.6	27.4	28.1	28.6

8H	4H	25.4	26.3	25.9	26.7	27.2	26.4	27.2	26.9	27.7	28.2
	6H	26.0	26.7	26.5	27.2	27.7	27.0	27.7	27.5	28.2	28.7
	8H	26.2	26.8	26.7	27.4	27.8	27.2	27.8	27.7	28.4	28.8
	12H	26.3	26.9	26.8	27.4	27.9	27.4	27.9	27.9	28.4	29.0

12H	4H	25.5	26.2	26.0	26.7	27.2	26.4	27.2	26.9	27.7	28.1
	6H	26.1	26.7	26.6	27.2	27.7	27.1	27.7	27.6	28.2	28.7
	8H	26.3	26.9	26.8	27.4	27.9	27.3	27.9	27.8	28.3	28.9

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1300.702 Located At Horizontal Angle = 90, Vertical Angle = 19
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (19) (Through Max. Cd.)