



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-L8-8TW-F-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL 13012869.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 12/6/2019

[MANUFAC] H E Williams Inc

[LUMCAT] MX2D-4'00-L8/8TW-F-AC/Dxx-XX-DIM-UNV 4000k

[LUMINAIRE] Formed White aluminum housing, frosted plastic lens

[LAMP] 144 White LEDs

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.96 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	17549	16061	14721
55	15482	14075	12746
65	13611	12242	11085
75	11222	10280	9544
85	8095	8706	8902

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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	1388.521	1388.521	1388.521	1388.521	1388.521
0.5	1386.411	1396.962	1385.355	1385.355	1383.245
1.0	1385.355	1396.962	1385.355	1385.355	1383.245
1.5	1385.355	1395.907	1385.355	1385.355	1383.245
2.0	1385.355	1395.907	1384.300	1385.355	1383.245
2.5	1384.300	1394.851	1384.300	1385.355	1383.245
3.0	1383.245	1394.851	1383.245	1385.355	1382.190
3.5	1382.190	1393.796	1382.190	1384.300	1381.135
4.0	1381.135	1392.741	1381.135	1383.245	1380.080
4.5	1380.080	1391.686	1379.025	1382.190	1379.025
5.0	1377.970	1389.576	1377.970	1381.135	1376.915
5.5	1376.915	1388.521	1375.860	1379.025	1375.860
6.0	1374.804	1386.411	1374.804	1376.915	1373.749
6.5	1372.694	1384.300	1372.694	1373.749	1370.584
7.0	1370.584	1382.190	1370.584	1370.584	1367.419
7.5	1368.474	1380.080	1368.474	1367.419	1364.253
8.0	1366.364	1377.970	1365.308	1363.198	1361.088
8.5	1363.198	1374.804	1363.198	1360.033	1356.868
9.0	1360.033	1372.694	1360.033	1355.812	1352.647
9.5	1357.923	1369.529	1356.868	1351.592	1347.372
10.0	1354.757	1366.364	1352.647	1346.317	1342.096
10.5	1351.592	1363.198	1349.482	1342.096	1336.821
11.0	1348.427	1360.033	1344.206	1336.821	1330.490
11.5	1344.206	1355.812	1339.986	1331.545	1325.214
12.0	1341.041	1352.647	1335.765	1326.269	1318.884
12.5	1336.821	1348.427	1330.490	1319.939	1312.553
13.0	1332.600	1344.206	1325.214	1314.663	1306.222
13.5	1328.380	1339.986	1319.939	1308.333	1300.947
14.0	1324.159	1335.765	1314.663	1302.002	1293.561
14.5	1318.884	1330.490	1308.333	1295.671	1286.175
15.0	1313.608	1325.214	1302.002	1288.286	1279.845
15.5	1309.388	1320.994	1295.671	1280.900	1272.459
16.0	1304.112	1314.663	1289.341	1274.569	1265.073
16.5	1298.837	1309.388	1283.010	1267.184	1257.688
17.0	1293.561	1303.057	1275.624	1258.743	1249.247
17.5	1288.286	1297.782	1268.239	1251.357	1241.861
18.0	1281.955	1291.451	1260.853	1242.916	1233.420
18.5	1276.679	1285.120	1253.467	1235.530	1224.979
19.0	1270.349	1278.790	1246.081	1227.089	1216.538
19.5	1264.018	1271.404	1238.696	1218.649	1208.098
20.0	1257.688	1265.073	1230.255	1210.208	1199.657
20.5	1251.357	1257.688	1221.814	1200.712	1190.161
21.0	1243.971	1250.302	1214.428	1191.216	1180.665
21.5	1237.641	1242.916	1205.987	1181.720	1171.169
22.0	1230.255	1235.530	1197.546	1172.224	1160.618
22.5	1223.924	1228.145	1189.106	1162.728	1150.067
23.0	1216.538	1220.759	1179.610	1152.177	1140.571
23.5	1209.153	1212.318	1171.169	1142.681	1128.964
24.0	1200.712	1204.932	1162.728	1132.130	1118.413
24.5	1193.326	1196.491	1153.232	1121.579	1107.862
25.0	1184.885	1188.050	1143.736	1112.083	1097.311
25.5	1177.499	1178.555	1135.295	1101.532	1086.760
26.0	1168.003	1170.114	1124.744	1089.926	1076.209
26.5	1159.563	1160.618	1115.248	1079.374	1065.658

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CANDELA TABULATION - (Cont.)

27.0	1150.067	1152.177	1105.752	1069.878	1055.001
27.5	1141.626	1142.681	1095.201	1059.327	1044.134
28.0	1132.130	1133.185	1085.705	1047.827	1033.688
28.5	1122.634	1123.689	1075.154	1037.381	1023.032
29.0	1113.138	1113.138	1064.603	1026.830	1012.586
29.5	1101.532	1103.642	1053.841	1015.963	1001.297
30.0	1092.036	1093.091	1043.079	1005.622	990.218
30.5	1082.540	1082.540	1031.895	994.333	979.139
31.0	1071.989	1071.989	1020.605	983.465	968.166
31.5	1061.438	1061.438	1009.315	971.965	956.349
32.0	1051.203	1050.570	998.026	960.358	944.954
32.5	1040.758	1038.964	986.525	948.541	933.770
33.0	1030.312	1027.780	975.024	936.724	921.741
33.5	1019.655	1016.279	963.418	924.696	910.346
34.0	1008.893	1004.673	951.390	912.668	897.896
34.5	998.026	992.961	939.889	900.428	885.868
35.0	987.475	981.461	927.967	887.978	873.523
35.5	976.396	969.960	915.938	875.950	860.651
36.0	965.106	957.932	904.227	863.289	847.673
36.5	954.661	946.220	892.093	850.627	834.062
37.0	943.160	934.508	879.643	837.966	820.557
37.5	931.765	922.797	867.403	825.199	807.157
38.0	920.686	910.874	854.953	812.432	793.757
38.5	909.186	899.268	842.714	799.244	782.573
39.0	897.474	887.556	830.686	787.110	771.600
39.5	885.762	875.950	818.552	776.875	758.833
40.0	873.840	864.449	806.313	765.269	746.383
40.5	862.128	852.843	794.496	752.819	734.354
41.0	850.627	841.448	785.211	740.791	722.748
41.5	838.810	829.947	774.026	729.184	711.459
42.0	827.204	818.235	763.581	717.789	700.591
42.5	815.387	806.735	752.080	706.922	690.040
43.0	803.992	795.023	741.002	696.265	679.805
43.5	793.018	785.949	730.029	685.820	669.676
44.0	783.417	775.504	719.266	675.585	659.758
44.5	774.238	764.425	708.610	665.456	649.735
45.0	762.737	753.557	698.059	655.538	639.817
45.5	751.553	742.162	687.613	645.620	630.004
46.0	740.369	730.873	677.273	635.807	620.086
46.5	729.290	719.688	667.039	625.889	610.379
47.0	718.106	708.715	656.804	616.077	600.567
47.5	707.027	697.742	646.464	606.053	590.754
48.0	696.160	686.769	636.124	596.135	581.047
48.5	685.398	675.902	625.678	586.323	571.340
49.0	674.635	665.034	615.233	576.510	561.739
49.5	663.873	654.377	604.682	566.803	552.243
50.0	653.111	643.615	594.342	557.096	542.747
50.5	642.349	632.853	584.002	547.495	533.357
51.0	631.587	622.197	573.767	537.999	523.966
51.5	620.614	611.540	563.638	528.398	514.576
52.0	609.852	600.672	553.615	518.902	505.185
52.5	598.984	590.121	543.908	509.406	495.900
53.0	588.328	579.570	534.201	500.015	486.510
53.5	577.671	569.125	524.705	490.625	477.119
54.0	567.015	558.785	515.103	481.234	467.834
54.5	556.358	548.550	505.607	471.844	458.550

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55.0	545.807	538.316	496.217	462.559	449.370
55.5	535.467	528.187	486.826	453.379	440.296
56.0	525.232	517.952	477.436	444.411	431.328
56.5	515.103	507.823	468.045	435.443	422.676
57.0	505.185	497.799	458.550	426.580	414.129
57.5	495.267	487.987	449.159	417.822	405.689
58.0	485.560	478.280	439.769	409.065	397.353
58.5	475.853	468.573	430.484	400.413	389.018
59.0	466.146	458.972	421.410	391.867	380.788
59.5	456.545	449.370	412.230	383.531	372.664
60.0	447.154	439.769	403.156	375.302	364.645
60.5	437.658	430.273	394.293	367.072	356.521
61.0	428.268	420.882	385.536	358.947	348.607
61.5	418.772	411.703	376.779	350.823	340.800
62.0	409.382	402.523	368.127	342.910	333.203
62.5	399.991	393.449	359.580	335.102	325.501
63.0	390.706	384.270	351.140	327.294	317.904
63.5	381.421	375.091	342.804	319.486	310.412
64.0	372.136	365.911	334.469	311.890	302.921
64.5	362.851	356.732	326.239	304.187	295.430
65.0	353.566	347.658	318.009	296.591	287.939
65.5	344.387	338.689	309.885	288.888	280.553
66.0	335.207	329.721	301.761	281.292	273.589
66.5	326.028	320.858	293.636	273.695	266.203
67.0	317.060	311.784	285.512	266.098	258.923
67.5	307.986	302.816	277.388	258.607	251.538
68.0	298.912	293.847	269.369	251.115	244.363
68.5	289.943	284.984	261.244	243.730	237.188
69.0	280.975	276.227	253.226	236.449	230.119
69.5	271.901	267.470	245.207	229.169	223.050
70.0	263.144	258.712	237.399	221.995	216.191
70.5	254.386	250.060	229.591	214.925	209.333
71.0	245.629	241.303	221.889	207.856	202.581
71.5	237.083	232.862	214.187	200.998	195.933
72.0	228.536	224.421	206.590	194.140	189.392
72.5	220.095	216.191	199.204	187.387	182.956
73.0	211.654	207.962	191.924	180.740	176.519
73.5	203.214	199.837	184.644	174.093	170.189
74.0	194.878	191.713	177.469	167.551	163.964
74.5	186.648	183.694	170.505	161.220	157.844
75.0	178.524	175.886	163.542	154.890	151.830
75.5	170.505	168.079	156.683	148.665	145.921
76.0	162.486	160.587	149.825	142.439	140.013
76.5	154.679	152.991	143.178	136.320	134.210
77.0	146.871	145.605	136.531	130.411	128.512
77.5	139.274	138.219	130.200	124.503	122.814
78.0	131.783	131.044	123.870	118.805	117.222
78.5	124.397	123.975	117.644	113.107	111.736
79.0	117.222	117.011	111.630	107.621	106.355
79.5	110.048	110.364	105.616	102.134	101.079
80.0	103.189	103.823	99.602	96.648	95.804
80.5	96.437	97.386	93.905	91.372	90.634
81.0	89.895	91.056	88.312	86.097	85.569
81.5	83.459	84.936	82.615	80.927	80.505
82.0	77.234	78.816	77.234	75.862	75.651
82.5	71.114	72.908	71.747	70.903	70.692

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CANDELA TABULATION - (Cont.)

83.0	65.311	67.105	66.472	66.050	65.944
83.5	59.508	61.513	61.302	61.196	61.196
84.0	54.021	56.132	56.237	56.448	56.659
84.5	48.640	50.856	51.384	51.911	52.122
85.0	43.365	45.686	46.636	47.374	47.691
85.5	38.406	40.727	41.993	42.943	43.470
86.0	33.552	35.874	37.456	38.617	39.144
86.5	28.910	31.337	33.025	34.396	35.135
87.0	24.373	26.800	28.699	30.282	31.126
87.5	19.942	22.474	24.584	26.272	27.116
88.0	15.616	18.253	20.469	22.263	23.318
88.5	11.395	14.033	16.354	18.464	19.625
89.0	7.069	9.707	12.134	14.033	15.194
89.5	2.849	5.276	6.858	7.702	8.441
90.0	0.633	2.427	3.693	4.748	5.170
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 : MX2D-4-00-L8-8TW-F-DIM-UNV 4000K_.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
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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 : MX2D-4-00-L8-8TW-F-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	497.65	N.A.	15.80
0-30	1024.44	N.A.	32.60
0-40	1605.99	N.A.	51.10
0-60	2594.5	N.A.	82.60
0-80	3087.89	N.A.	98.30
0-90	3140.38	N.A.	100.00
10-90	3009.38	N.A.	95.80
20-40	1108.34	N.A.	35.30
20-50	1650.16	N.A.	52.50
40-70	1306.38	N.A.	41.60
60-80	493.39	N.A.	15.70
70-80	175.51	N.A.	5.60
80-90	52.49	N.A.	1.70
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3140.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.00
10-20	366.65
20-30	526.79
30-40	581.55
40-50	541.83
50-60	446.68
60-70	317.88
70-80	175.51
80-90	52.49
90-100	0.09
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 : MX2D-4-00-L8-8TW-F-DIM-UNV 4000K_.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	126	126	126	126	123	123	123	123	117	117	117	112	112	112	108	108	108	106
1	115	111	106	103	113	108	104	101	104	101	98	100	97	95	96	94	92	90
2	106	97	91	85	103	96	89	84	92	87	82	88	84	80	85	82	78	76
3	97	86	78	72	94	85	77	71	82	75	70	79	73	69	76	71	67	65
4	89	77	68	62	87	76	68	61	73	66	60	71	65	60	68	63	59	57
5	82	69	60	54	80	68	60	53	66	59	53	64	57	52	62	56	52	50
6	76	63	54	47	74	62	53	47	60	52	47	58	51	46	57	51	46	44
7	71	57	48	42	69	56	48	42	55	47	42	53	47	41	52	46	41	39
8	66	53	44	38	65	52	44	38	50	43	38	49	42	37	48	42	37	35
9	62	48	40	34	61	48	40	34	47	39	34	46	39	34	44	38	34	32
10	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-4-00-L8-8TW-F-DIM-UNV 4000K_.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	21.2	22.8	21.6	23.1	23.4	20.1	21.7	20.5	22.0	22.3
	3H	22.9	24.3	23.3	24.6	25.0	21.7	23.1	22.1	23.5	23.8
	4H	23.5	24.8	23.9	25.2	25.5	22.3	23.6	22.7	24.0	24.4
	6H	23.9	25.1	24.3	25.5	25.9	22.8	24.0	23.2	24.4	24.8
	8H	24.0	25.2	24.4	25.6	26.0	23.0	24.1	23.4	24.5	24.9
	12H	24.1	25.2	24.5	25.6	26.0	23.1	24.2	23.5	24.6	25.0

UGR Viewed Endwise

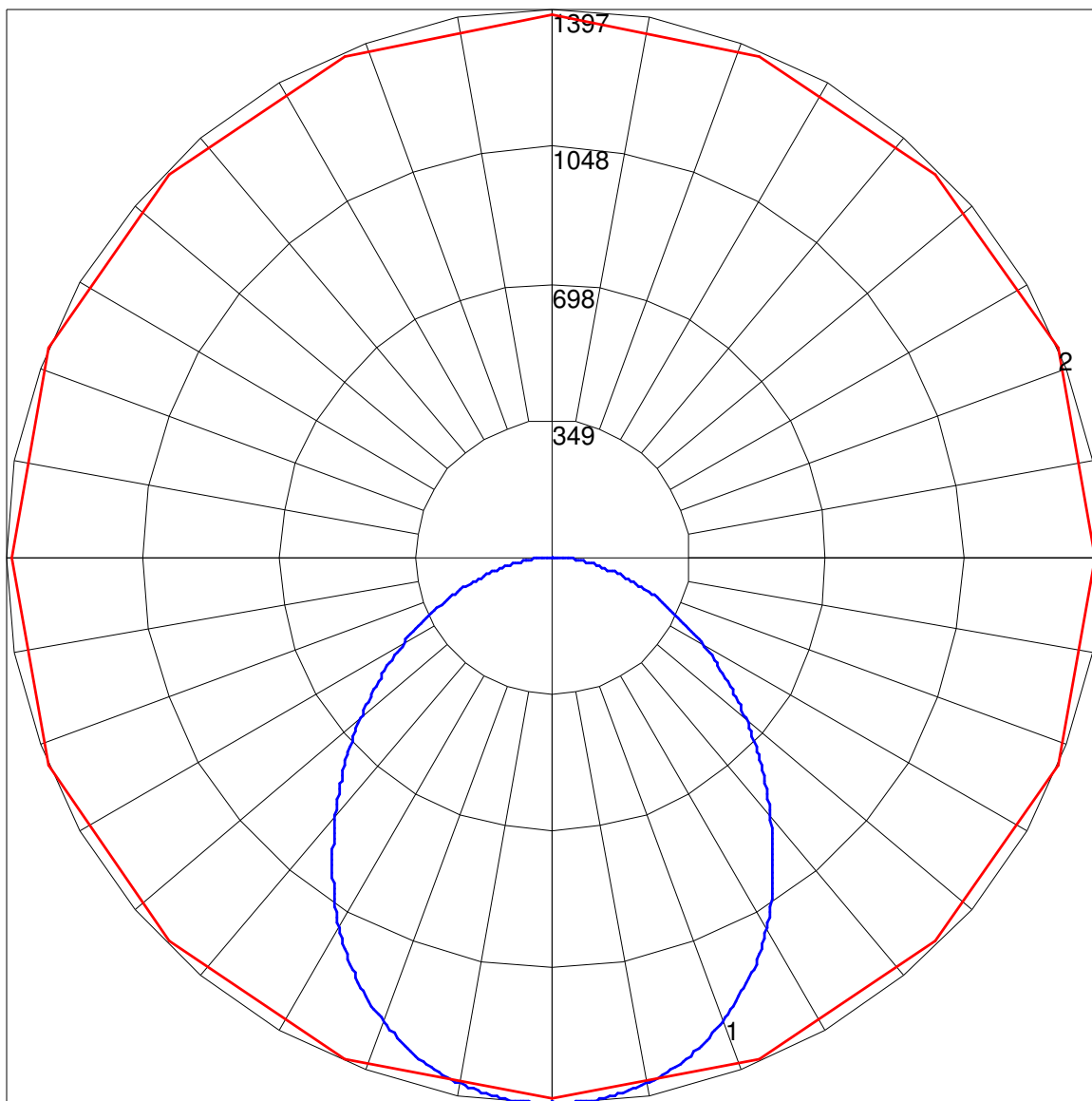
4H	2H	21.7	23.0	22.1	23.4	23.7	20.8	22.1	21.2	22.5	22.8
	3H	23.6	24.7	24.0	25.1	25.5	22.6	23.7	23.0	24.1	24.5
	4H	24.3	25.3	24.7	25.7	26.1	23.3	24.3	23.7	24.7	25.2
	6H	24.8	25.7	25.3	26.2	26.6	23.9	24.8	24.4	25.2	25.7
	8H	25.0	25.8	25.5	26.3	26.7	24.1	24.9	24.6	25.4	25.9
	12H	25.1	25.9	25.6	26.3	26.8	24.3	25.0	24.8	25.5	26.0

8H	4H	24.5	25.3	25.0	25.8	26.2	23.6	24.5	24.1	24.9	25.4
	6H	25.2	25.9	25.7	26.3	26.8	24.4	25.0	24.9	25.5	26.0
	8H	25.4	26.0	25.9	26.5	27.0	24.7	25.3	25.2	25.8	26.3
	12H	25.6	26.2	26.1	26.7	27.2	24.9	25.5	25.4	26.0	26.5

12H	4H	24.5	25.3	25.0	25.7	26.2	23.7	24.4	24.2	24.9	25.4
	6H	25.2	25.8	25.7	26.3	26.8	24.4	25.1	25.0	25.5	26.1
	8H	25.5	26.1	26.0	26.5	27.1	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 1396.962 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)