

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15034137.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 4 DEC 2023

[TEST DATE] 11/2/2023

[MANUFAC] H E Williams Inc

[LUMCAT] MX2D-4-00-L12-835-S-FW-DIM-UNV

[LUMINAIRE] Long white metal housing with plastic frosted lens

[LAMP] 144 LEDs

[BALLAST] eldoLED Optotronic OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.9 C, 119.981 V, 0.338283 A, 39.9716 W, 0.984824 PF, 60.0072

[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	4148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	40.4
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	18520	23583	24499
55	17342	22238	22432
65	15940	20673	20278
75	13299	17085	16561
85	7805	10361	10361

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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	1372.433	1372.433	1372.433	1372.433	1372.433
0.5	1393.936	1375.238	1366.824	1370.563	1361.214
1.0	1393.936	1375.238	1367.759	1371.498	1362.149
1.5	1393.001	1374.303	1367.759	1372.433	1363.084
2.0	1393.001	1374.303	1367.759	1373.368	1364.019
2.5	1392.066	1374.303	1368.694	1374.303	1365.889
3.0	1391.131	1373.368	1368.694	1376.173	1367.759
3.5	1390.196	1372.433	1369.628	1377.108	1369.628
4.0	1389.261	1371.498	1369.628	1378.977	1371.498
4.5	1387.392	1370.563	1369.628	1380.847	1373.368
5.0	1385.522	1369.628	1370.563	1382.717	1375.238
5.5	1383.652	1368.694	1371.498	1384.587	1378.043
6.0	1381.782	1367.759	1371.498	1386.457	1379.912
6.5	1379.912	1365.889	1372.433	1388.326	1382.717
7.0	1377.108	1364.954	1372.433	1390.196	1385.522
7.5	1374.303	1363.084	1372.433	1393.001	1388.326
8.0	1372.433	1361.214	1373.368	1394.871	1392.066
8.5	1368.694	1360.279	1373.368	1397.675	1394.871
9.0	1365.889	1358.410	1373.368	1399.545	1398.610
9.5	1363.084	1356.540	1374.303	1402.350	1401.415
10.0	1359.345	1353.735	1374.303	1404.220	1404.220
10.5	1355.605	1351.865	1374.303	1406.090	1407.024
11.0	1351.865	1349.061	1374.303	1408.894	1409.829
11.5	1348.126	1346.256	1374.303	1410.764	1413.569
12.0	1344.386	1344.386	1374.303	1413.569	1415.439
12.5	1339.712	1341.581	1374.303	1415.439	1419.178
13.0	1335.037	1338.777	1374.303	1417.308	1421.983
13.5	1330.363	1335.037	1374.303	1419.178	1424.788
14.0	1325.688	1332.232	1373.368	1421.048	1427.592
14.5	1321.014	1328.493	1373.368	1422.918	1430.397
15.0	1315.404	1325.688	1372.433	1424.788	1432.267
15.5	1310.730	1321.949	1371.498	1426.657	1435.071
16.0	1305.120	1318.209	1371.498	1428.527	1437.876
16.5	1299.511	1314.469	1370.563	1429.462	1439.746
17.0	1293.902	1310.730	1368.694	1430.397	1441.616
17.5	1288.292	1306.990	1367.759	1431.332	1443.486
18.0	1282.683	1303.251	1366.824	1432.267	1444.420
18.5	1276.138	1298.576	1365.889	1433.202	1445.355
19.0	1269.594	1293.902	1364.019	1433.202	1446.290
19.5	1263.050	1289.227	1362.149	1433.202	1445.355
20.0	1256.506	1284.553	1360.279	1432.267	1445.355
20.5	1249.961	1279.878	1358.410	1431.332	1444.420
21.0	1242.482	1275.204	1356.540	1430.397	1443.486
21.5	1235.938	1269.594	1354.670	1429.462	1441.616
22.0	1228.459	1263.985	1351.865	1427.592	1439.746
22.5	1220.979	1258.375	1349.061	1425.722	1438.811
23.0	1214.435	1252.766	1347.191	1422.918	1436.941
23.5	1206.021	1247.157	1343.451	1420.113	1435.071
24.0	1198.542	1240.612	1340.647	1418.243	1433.202
24.5	1191.063	1235.003	1336.907	1415.439	1430.397
25.0	1183.583	1228.459	1333.167	1412.634	1427.592
25.5	1176.104	1221.914	1329.428	1409.829	1423.853
26.0	1167.690	1215.370	1325.688	1407.024	1421.048
26.5	1159.276	1208.826	1321.014	1404.220	1417.308

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CANDELA TABULATION - (Cont.)

27.0	1151.797	1202.281	1316.339	1400.480	1413.569
27.5	1143.383	1194.802	1312.600	1396.741	1409.829
28.0	1134.969	1188.258	1307.925	1393.001	1405.155
28.5	1126.554	1180.779	1303.251	1389.261	1400.480
29.0	1118.140	1174.234	1298.576	1384.587	1395.806
29.5	1109.726	1166.755	1293.902	1379.912	1391.131
30.0	1100.377	1159.276	1288.292	1374.303	1385.522
30.5	1091.963	1152.732	1282.683	1368.694	1379.912
31.0	1082.614	1145.252	1277.073	1362.149	1373.368
31.5	1073.265	1137.773	1271.464	1355.605	1366.824
32.0	1064.851	1129.359	1265.855	1349.061	1360.279
32.5	1055.502	1121.880	1259.310	1342.516	1351.865
33.0	1046.153	1114.401	1252.766	1335.037	1344.386
33.5	1036.804	1105.987	1245.287	1327.558	1335.972
34.0	1028.390	1098.507	1238.742	1319.144	1326.623
34.5	1019.041	1090.093	1231.263	1310.730	1317.274
35.0	1009.692	1081.679	1223.784	1302.316	1307.925
35.5	1000.343	1073.265	1216.305	1292.967	1298.576
36.0	990.059	1063.916	1207.891	1283.618	1288.292
36.5	980.710	1055.502	1199.477	1274.269	1278.008
37.0	971.361	1046.153	1191.063	1264.920	1267.724
37.5	962.012	1036.804	1182.648	1254.636	1256.506
38.0	951.728	1027.455	1173.299	1244.352	1246.222
38.5	942.379	1018.106	1163.950	1234.068	1235.003
39.0	932.095	1007.822	1155.536	1223.784	1223.784
39.5	922.092	998.473	1146.187	1212.565	1212.565
40.0	912.275	989.124	1136.838	1201.346	1200.412
40.5	902.552	978.840	1127.489	1190.128	1188.258
41.0	892.456	969.491	1118.140	1178.909	1177.039
41.5	882.920	960.142	1107.856	1167.690	1163.950
42.0	872.916	950.793	1098.507	1156.471	1151.797
42.5	863.006	940.509	1088.224	1144.318	1139.643
43.0	853.003	930.693	1077.940	1132.164	1126.554
43.5	843.280	920.970	1067.656	1120.010	1114.401
44.0	833.557	911.247	1057.372	1107.856	1102.247
44.5	823.366	901.524	1046.153	1096.638	1089.158
45.0	813.456	891.521	1035.869	1083.549	1076.070
45.5	803.827	881.517	1024.650	1071.395	1063.916
46.0	793.543	871.233	1013.432	1059.242	1050.828
46.5	783.727	861.043	1002.213	1046.153	1037.739
47.0	773.536	850.665	990.994	1033.999	1024.650
47.5	763.439	840.288	978.840	1020.911	1010.627
48.0	753.062	829.724	967.621	1007.822	997.538
48.5	742.591	818.972	955.468	994.734	983.515
49.0	732.681	808.408	943.314	981.645	970.426
49.5	725.856	797.657	931.721	967.621	956.403
50.0	717.723	786.531	919.287	954.533	942.379
50.5	710.150	775.313	907.040	941.444	928.075
51.0	699.960	764.374	894.419	927.047	913.771
51.5	689.676	753.249	881.891	913.117	899.467
52.0	679.392	742.030	869.083	899.000	885.257
52.5	668.921	730.624	856.088	885.163	871.046
53.0	658.544	724.080	843.280	871.046	856.742
53.5	648.353	715.946	830.565	857.116	842.064
54.0	638.163	705.569	817.570	843.093	827.947
54.5	627.879	694.257	804.949	829.069	813.643

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CANDELA TABULATION - (Cont.)

55.0	617.875	683.131	792.328	815.233	799.246
55.5	607.685	672.100	779.520	801.490	785.316
56.0	597.869	660.974	767.272	787.466	771.479
56.5	587.772	650.129	754.558	773.630	756.989
57.0	577.768	639.285	741.656	759.700	743.339
57.5	567.858	628.440	729.315	745.863	729.502
58.0	558.042	617.501	720.808	733.149	720.060
58.5	547.945	606.657	710.711	722.678	708.748
59.0	537.848	595.812	698.277	711.365	696.687
59.5	528.032	584.873	685.375	699.305	682.944
60.0	518.309	574.029	672.474	685.562	669.482
60.5	508.679	562.997	659.478	671.726	655.739
61.0	498.863	552.152	646.483	657.889	641.809
61.5	489.046	541.214	633.582	644.053	627.972
62.0	479.136	530.182	620.774	629.936	613.949
62.5	469.039	519.150	607.685	615.819	599.925
63.0	458.942	507.931	594.690	601.982	586.182
63.5	449.126	496.712	581.788	587.959	572.533
64.0	438.936	485.494	568.700	574.403	558.790
64.5	428.745	474.181	555.705	560.473	545.608
65.0	418.461	462.869	542.709	546.916	532.332
65.5	408.364	451.276	529.434	533.360	518.963
66.0	398.080	439.777	516.158	519.711	505.781
66.5	387.983	428.278	502.696	505.874	492.505
67.0	377.606	416.685	489.233	491.944	478.949
67.5	367.042	405.092	475.677	478.201	465.487
68.0	356.758	393.499	461.934	464.271	451.650
68.5	346.287	382.187	448.378	449.967	437.533
69.0	335.723	370.407	434.448	435.570	423.416
69.5	325.252	358.815	420.425	421.172	409.299
70.0	314.781	346.941	406.588	407.149	395.276
70.5	304.497	335.442	392.658	393.125	381.533
71.0	294.213	324.130	379.008	379.102	368.070
71.5	283.649	312.631	365.452	365.452	354.608
72.0	273.365	301.412	352.083	352.083	341.332
72.5	263.268	290.286	338.808	338.714	328.430
73.0	253.264	279.255	325.719	325.532	315.622
73.5	243.261	268.223	312.724	312.724	303.001
74.0	233.164	257.471	300.009	299.916	290.660
74.5	223.441	246.814	287.295	287.388	278.507
75.0	213.812	236.062	274.674	274.767	266.260
75.5	204.089	225.404	262.333	262.052	254.199
76.0	194.459	214.747	249.805	249.712	242.233
76.5	185.110	204.369	237.652	237.371	230.453
77.0	175.761	193.711	225.404	225.030	218.580
77.5	166.412	183.334	213.157	212.783	206.893
78.0	156.970	172.863	201.190	200.723	195.394
78.5	147.527	162.392	189.224	188.756	183.895
79.0	138.178	152.295	177.538	176.883	172.489
79.5	129.110	142.105	165.945	165.290	161.644
80.0	120.322	132.195	154.726	153.885	150.706
80.5	111.534	122.285	143.601	142.853	140.142
81.0	102.746	112.749	132.662	131.914	129.484
81.5	94.238	103.493	122.004	121.257	119.480
82.0	85.917	94.518	111.534	110.973	109.477
82.5	78.064	85.730	101.437	101.156	99.847

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CANDELA TABULATION - (Cont.)

83.0	70.398	77.316	91.807	91.620	90.498
83.5	62.732	69.276	82.365	82.271	81.430
84.0	55.533	61.516	73.203	73.577	72.642
84.5	48.802	54.037	64.415	64.882	64.041
85.0	42.257	47.025	56.094	56.655	56.094
85.5	35.994	40.294	48.147	48.802	48.521
86.0	30.197	33.937	40.481	41.416	41.229
86.5	24.868	27.954	33.469	34.498	34.217
87.0	19.913	22.344	26.925	28.047	27.954
87.5	15.332	17.202	20.942	22.157	22.064
88.0	11.219	12.621	15.613	16.828	16.828
88.5	7.666	8.601	10.938	11.967	12.247
89.0	4.581	5.329	7.012	8.040	8.227
89.5	2.244	2.805	4.020	4.955	5.142
90.0	0.935	1.309	2.057	2.805	2.992
90.5	0.467	0.654	1.028	1.402	1.589
91.0	0.467	0.467	0.654	0.748	0.841
91.5	0.467	0.467	0.561	0.561	0.561
92.0	0.467	0.467	0.467	0.467	0.467
92.5	0.467	0.467	0.467	0.467	0.467
93.0	0.467	0.467	0.467	0.467	0.467
93.5	0.467	0.467	0.467	0.467	0.467
94.0	0.374	0.467	0.467	0.467	0.467
94.5	0.374	0.374	0.467	0.467	0.467
95.0	0.374	0.374	0.467	0.374	0.374
95.5	0.374	0.374	0.374	0.374	0.374
96.0	0.374	0.374	0.374	0.374	0.374
96.5	0.374	0.374	0.374	0.374	0.374
97.0	0.374	0.374	0.374	0.374	0.374
97.5	0.374	0.374	0.374	0.374	0.374
98.0	0.374	0.374	0.374	0.374	0.374
98.5	0.374	0.374	0.374	0.374	0.374
99.0	0.374	0.374	0.374	0.374	0.374
99.5	0.280	0.374	0.374	0.374	0.374
100.0	0.280	0.374	0.374	0.374	0.374
100.5	0.280	0.374	0.374	0.374	0.374
101.0	0.280	0.374	0.374	0.374	0.374
101.5	0.280	0.280	0.374	0.374	0.374
102.0	0.280	0.280	0.374	0.374	0.374
102.5	0.280	0.280	0.374	0.374	0.374
103.0	0.280	0.280	0.374	0.374	0.374
103.5	0.280	0.280	0.280	0.374	0.280
104.0	0.280	0.280	0.280	0.280	0.374
104.5	0.280	0.280	0.374	0.374	0.374
105.0	0.280	0.280	0.280	0.374	0.280
105.5	0.280	0.280	0.280	0.280	0.280
106.0	0.280	0.280	0.280	0.374	0.280
106.5	0.280	0.280	0.280	0.280	0.374
107.0	0.280	0.280	0.280	0.374	0.280
107.5	0.280	0.280	0.280	0.280	0.280
108.0	0.280	0.280	0.280	0.374	0.374
108.5	0.280	0.280	0.374	0.374	0.374
109.0	0.280	0.280	0.374	0.374	0.374
109.5	0.280	0.280	0.280	0.374	0.374
110.0	0.280	0.280	0.374	0.374	0.374
110.5	0.280	0.280	0.374	0.374	0.374

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CANDELA TABULATION - (Cont.)

111.0	0.280	0.280	0.374	0.374	0.374
111.5	0.280	0.280	0.374	0.374	0.374
112.0	0.280	0.280	0.374	0.374	0.374
112.5	0.280	0.374	0.374	0.374	0.374
113.0	0.280	0.374	0.374	0.374	0.374
113.5	0.280	0.374	0.374	0.374	0.374
114.0	0.374	0.374	0.374	0.374	0.374
114.5	0.374	0.374	0.374	0.374	0.374
115.0	0.374	0.374	0.374	0.374	0.374
115.5	0.374	0.374	0.374	0.467	0.374
116.0	0.374	0.374	0.467	0.467	0.467
116.5	0.374	0.374	0.467	0.467	0.467
117.0	0.374	0.374	0.467	0.467	0.467
117.5	0.374	0.467	0.467	0.467	0.467
118.0	0.374	0.467	0.467	0.467	0.467
118.5	0.467	0.467	0.467	0.467	0.467
119.0	0.467	0.467	0.467	0.561	0.561
119.5	0.467	0.467	0.561	0.561	0.561
120.0	0.467	0.467	0.561	0.561	0.561
120.5	0.467	0.467	0.561	0.561	0.561
121.0	0.467	0.561	0.561	0.561	0.561
121.5	0.467	0.561	0.561	0.561	0.561
122.0	0.561	0.561	0.561	0.654	0.654
122.5	0.561	0.561	0.654	0.654	0.654
123.0	0.561	0.561	0.654	0.654	0.654
123.5	0.561	0.561	0.654	0.654	0.654
124.0	0.561	0.654	0.654	0.748	0.748
124.5	0.561	0.654	0.654	0.748	0.748
125.0	0.654	0.654	0.748	0.748	0.748
125.5	0.654	0.654	0.748	0.748	0.748
126.0	0.654	0.654	0.748	0.748	0.748
126.5	0.654	0.748	0.748	0.841	0.841
127.0	0.748	0.748	0.841	0.841	0.841
127.5	0.748	0.748	0.841	0.841	0.841
128.0	0.748	0.748	0.841	0.841	0.841
128.5	0.748	0.748	0.841	0.935	0.935
129.0	0.748	0.841	0.841	0.935	0.935
129.5	0.841	0.841	0.935	0.935	0.935
130.0	0.841	0.841	0.935	0.935	0.935
130.5	0.841	0.841	0.935	1.028	1.028
131.0	0.841	0.841	0.935	1.028	1.028
131.5	0.841	0.935	1.028	1.028	1.028
132.0	0.935	0.935	1.028	1.028	1.122
132.5	0.935	0.935	1.028	1.122	1.122
133.0	0.935	0.935	1.028	1.122	1.122
133.5	0.935	1.028	1.122	1.122	1.122
134.0	1.028	1.028	1.122	1.122	1.122
134.5	1.028	1.028	1.122	1.215	1.215
135.0	1.028	1.028	1.122	1.215	1.215
135.5	1.028	1.122	1.122	1.215	1.215
136.0	1.122	1.122	1.215	1.215	1.215
136.5	1.122	1.122	1.215	1.309	1.309
137.0	1.122	1.122	1.215	1.309	1.309
137.5	1.122	1.215	1.215	1.309	1.309
138.0	1.122	1.215	1.309	1.309	1.309
138.5	1.215	1.215	1.309	1.309	1.402

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

CANDELA TABULATION - (Cont.)

139.0	1.215	1.215	1.309	1.402	1.402
139.5	1.215	1.215	1.309	1.402	1.402
140.0	1.215	1.309	1.309	1.402	1.402
140.5	1.309	1.309	1.402	1.402	1.402
141.0	1.309	1.309	1.402	1.402	1.496
141.5	1.309	1.309	1.402	1.496	1.496
142.0	1.309	1.402	1.402	1.496	1.496
142.5	1.402	1.402	1.402	1.496	1.496
143.0	1.402	1.402	1.496	1.496	1.589
143.5	1.402	1.402	1.496	1.589	1.589
144.0	1.402	1.402	1.496	1.589	1.589
144.5	1.402	1.496	1.496	1.589	1.589
145.0	1.496	1.496	1.589	1.589	1.589
145.5	1.496	1.496	1.589	1.589	1.589
146.0	1.496	1.496	1.589	1.683	1.683
146.5	1.496	1.496	1.589	1.683	1.683
147.0	1.589	1.589	1.589	1.683	1.683
147.5	1.589	1.589	1.683	1.683	1.683
148.0	1.589	1.589	1.683	1.683	1.683
148.5	1.589	1.589	1.683	1.776	1.776
149.0	1.589	1.683	1.683	1.776	1.776
149.5	1.683	1.683	1.683	1.776	1.776
150.0	1.683	1.683	1.776	1.776	1.776
150.5	1.683	1.683	1.776	1.776	1.776
151.0	1.683	1.683	1.776	1.776	1.776
151.5	1.683	1.683	1.776	1.870	1.870
152.0	1.683	1.776	1.776	1.870	1.870
152.5	1.776	1.776	1.776	1.870	1.870
153.0	1.776	1.776	1.870	1.870	1.870
153.5	1.776	1.776	1.870	1.870	1.870
154.0	1.776	1.776	1.870	1.870	1.870
154.5	1.776	1.776	1.870	1.870	1.870
155.0	1.776	1.870	1.870	1.870	1.870
155.5	1.870	1.870	1.870	1.963	1.963
156.0	1.870	1.870	1.870	1.963	1.963
156.5	1.870	1.870	1.870	1.963	1.963
157.0	1.870	1.870	1.870	1.963	1.963
157.5	1.870	1.870	1.963	1.963	1.963
158.0	1.870	1.870	1.963	1.963	1.963
158.5	1.870	1.963	1.963	1.963	1.963
159.0	1.963	1.963	1.963	1.963	1.963
159.5	1.963	1.963	1.963	1.963	1.963
160.0	1.963	1.963	1.963	1.963	1.963
160.5	1.963	1.963	1.963	1.963	1.963
161.0	1.963	1.963	1.963	2.057	1.963
161.5	1.963	1.963	1.963	2.057	2.057
162.0	1.963	1.963	1.963	2.057	2.057
162.5	2.057	1.963	1.963	2.057	2.057
163.0	2.057	1.963	1.963	2.057	2.057
163.5	2.057	1.963	2.057	2.057	2.057
164.0	2.057	1.963	2.057	2.057	2.057
164.5	2.057	1.963	2.057	2.057	2.057
165.0	2.057	2.057	2.057	2.057	2.057
165.5	2.057	2.057	2.057	2.057	2.057
166.0	2.057	2.057	2.057	2.057	2.150
166.5	2.057	2.057	2.057	2.057	2.150

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

CANDELA TABULATION - (Cont.)

167.0	2.057	2.057	2.057	2.150	2.150
167.5	2.057	2.057	2.057	2.150	2.150
168.0	2.150	2.057	2.057	2.150	2.150
168.5	2.150	2.057	2.057	2.150	2.150
169.0	2.150	2.057	2.150	2.150	2.150
169.5	2.150	2.057	2.150	2.150	2.150
170.0	2.150	2.150	2.150	2.150	2.150
170.5	2.150	2.150	2.150	2.150	2.150
171.0	2.150	2.150	2.150	2.150	2.150
171.5	2.150	2.150	2.150	2.150	2.150
172.0	2.150	2.150	2.150	2.150	2.150
172.5	2.150	2.150	2.150	2.150	2.244
173.0	2.150	2.150	2.150	2.150	2.244
173.5	2.150	2.150	2.150	2.150	2.244
174.0	2.150	2.150	2.150	2.150	2.244
174.5	2.150	2.150	2.150	2.150	2.244
175.0	2.150	2.150	2.150	2.150	2.244
175.5	2.150	2.150	2.150	2.150	2.244
176.0	2.150	2.150	2.150	2.244	2.244
176.5	2.150	2.150	2.150	2.244	2.244
177.0	2.150	2.150	2.150	2.244	2.244
177.5	2.150	2.150	2.150	2.244	2.244
178.0	2.150	2.150	2.150	2.244	2.244
178.5	2.150	2.150	2.244	2.244	2.244
179.0	2.150	2.150	2.244	2.244	2.244
179.5	2.150	2.150	2.244	2.244	2.244
180.0	2.244	2.244	2.244	2.244	2.244

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	520.10	N.A.	12.50
0-30	1128.53	N.A.	27.20
0-40	1872.59	N.A.	45.10
0-60	3305.86	N.A.	79.70
0-80	4078.74	N.A.	98.30
0-90	4142.82	N.A.	99.90
10-90	4011.38	N.A.	96.70
20-40	1352.48	N.A.	32.60
20-50	2114.6	N.A.	51.00
40-70	1934.23	N.A.	46.60
60-80	772.88	N.A.	18.60
70-80	271.92	N.A.	6.60
80-90	64.08	N.A.	1.50
90-110	0.88	N.A.	0.00
90-120	1.28	N.A.	0.00
90-130	1.91	N.A.	0.00
90-150	3.74	N.A.	0.10
90-180	5.39	N.A.	0.10
110-180	4.51	N.A.	0.10
0-180	4148.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.43
10-20	388.67
20-30	608.43
30-40	744.06
40-50	762.12
50-60	671.16
60-70	500.96
70-80	271.92
80-90	64.08
90-100	0.54
100-110	0.34
110-120	0.40
120-130	0.63
130-140	0.87
140-150	0.96
150-160	0.86
160-170	0.58
170-180	0.21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-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	111	111	111	111	109	109	109	109	104	104	104	99	99	99	95	95	95	93
1	102	97	93	90	99	95	92	88	91	88	86	88	85	83	84	82	80	78
2	93	85	79	73	90	83	77	72	80	75	71	77	73	69	74	70	67	65
3	84	75	67	61	82	73	66	60	70	64	59	68	62	58	65	61	57	55
4	77	66	58	52	75	65	57	51	62	56	50	60	54	50	58	53	49	47
5	71	59	51	44	69	58	50	44	56	49	44	54	48	43	52	47	43	41
6	65	53	45	39	64	52	44	38	50	43	38	49	43	38	47	42	37	35
7	61	48	40	34	59	47	39	34	46	39	34	44	38	33	43	37	33	31
8	56	44	36	30	55	43	36	30	42	35	30	41	34	30	40	34	30	28
9	53	40	32	27	51	40	32	27	38	32	27	37	31	27	37	31	27	25
10	49	37	30	25	48	37	29	25	36	29	24	35	29	24	34	28	24	23

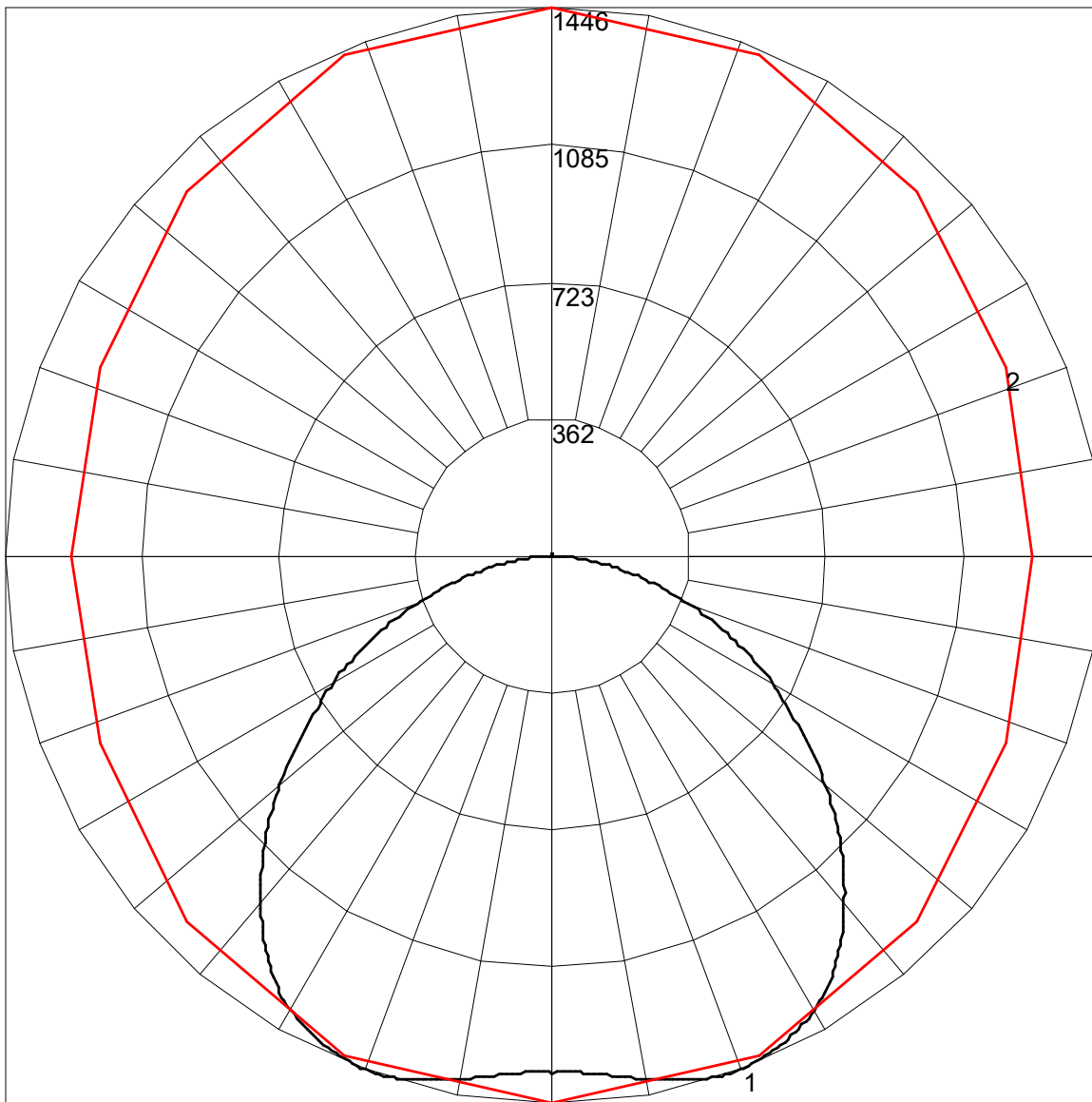
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L12-835-FW-DIM-UNV_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	22.2	23.8	22.6	24.1	24.5	23.5	25.1	23.9	25.4	25.7
	3H	23.9	25.3	24.3	25.7	26.0	25.2	26.7	25.6	27.0	27.4
	4H	24.4	25.8	24.8	26.2	26.6	25.8	27.2	26.2	27.5	27.9
	6H	24.8	26.1	25.2	26.5	26.9	26.2	27.5	26.6	27.8	28.2
	8H	24.9	26.2	25.4	26.6	26.9	26.3	27.5	26.7	27.9	28.3
	12H	25.0	26.2	25.4	26.5	27.0	26.3	27.5	26.8	27.9	28.3
4H	2H	23.1	24.5	23.5	24.9	25.2	24.1	25.5	24.5	25.8	26.2
	3H	25.0	26.1	25.4	26.5	26.9	26.0	27.2	26.4	27.6	28.0
	4H	25.6	26.7	26.1	27.1	27.5	26.7	27.8	27.2	28.2	28.6
	6H	26.1	27.0	26.6	27.5	27.9	27.2	28.2	27.7	28.6	29.1
	8H	26.3	27.1	26.7	27.6	28.0	27.4	28.2	27.9	28.7	29.2
	12H	26.3	27.1	26.8	27.6	28.0	27.5	28.2	28.0	28.7	29.2
8H	4H	26.0	26.9	26.5	27.3	27.8	27.0	27.8	27.5	28.3	28.8
	6H	26.6	27.3	27.1	27.8	28.3	27.6	28.3	28.1	28.8	29.3
	8H	26.8	27.4	27.3	28.0	28.4	27.8	28.4	28.3	29.0	29.4
	12H	26.9	27.5	27.4	28.0	28.5	28.0	28.5	28.5	29.0	29.6
12H	4H	26.1	26.8	26.6	27.3	27.8	27.0	27.8	27.5	28.3	28.7
	6H	26.7	27.3	27.2	27.8	28.3	27.7	28.3	28.2	28.8	29.3
	8H	26.9	27.5	27.4	28.0	28.5	27.9	28.5	28.4	28.9	29.5

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1446.29 Located At Horizontal Angle = 90, Vertical Angle = 19
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (19) (Through Max. Cd.)