



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2/23/2026

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4'00-L15-835U-L8-835D-F--F-DIMU-DIMD-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

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

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	78.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9041	8815	8715
55	8311	8110	8025
65	7666	7481	7400
75	6501	6497	6494
85	5077	5281	5434

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1311.915	1311.915	1311.915	1311.915	1311.915
<b>0.5</b>	1331.726	1313.016	1306.412	1309.164	1304.761
<b>1.0</b>	1331.726	1312.466	1306.412	1309.164	1304.761
<b>1.5</b>	1331.176	1311.915	1305.862	1309.164	1304.211
<b>2.0</b>	1330.625	1311.365	1305.312	1308.613	1304.211
<b>2.5</b>	1330.075	1310.815	1304.211	1308.063	1303.661
<b>3.0</b>	1328.975	1309.714	1303.661	1307.513	1302.560
<b>3.5</b>	1327.874	1308.613	1302.560	1306.412	1301.459
<b>4.0</b>	1326.773	1307.513	1301.459	1305.312	1300.359
<b>4.5</b>	1325.673	1305.862	1300.359	1304.211	1298.708
<b>5.0</b>	1324.572	1304.761	1298.708	1302.560	1297.057
<b>5.5</b>	1322.921	1303.110	1297.057	1300.909	1295.406
<b>6.0</b>	1321.270	1300.909	1295.406	1299.258	1293.205
<b>6.5</b>	1319.069	1299.258	1293.205	1297.057	1291.554
<b>7.0</b>	1317.418	1297.057	1291.554	1294.856	1289.353
<b>7.5</b>	1315.767	1294.856	1289.353	1292.655	1287.702
<b>8.0</b>	1313.016	1292.655	1286.601	1290.454	1285.501
<b>8.5</b>	1310.815	1289.903	1283.850	1287.702	1282.749
<b>9.0</b>	1308.063	1287.702	1281.649	1284.950	1279.998
<b>9.5</b>	1305.312	1284.950	1278.347	1281.649	1277.246
<b>10.0</b>	1302.560	1282.199	1275.595	1278.897	1273.945
<b>10.5</b>	1299.258	1278.897	1272.294	1275.595	1271.193
<b>11.0</b>	1296.507	1275.595	1268.992	1272.294	1267.341
<b>11.5</b>	1292.655	1272.294	1265.690	1268.992	1264.039
<b>12.0</b>	1289.353	1268.992	1262.388	1265.140	1260.187
<b>12.5</b>	1286.051	1265.140	1258.536	1261.288	1256.335
<b>13.0</b>	1282.199	1261.838	1254.684	1257.436	1252.483
<b>13.5</b>	1278.347	1257.436	1250.832	1253.033	1248.631
<b>14.0</b>	1274.495	1253.583	1246.429	1249.181	1244.779
<b>14.5</b>	1270.643	1249.731	1242.027	1244.779	1240.376
<b>15.0</b>	1266.791	1245.329	1237.625	1240.376	1235.974
<b>15.5</b>	1261.838	1241.477	1233.222	1235.424	1231.021
<b>16.0</b>	1256.335	1237.074	1228.270	1231.021	1226.619
<b>16.5</b>	1250.832	1232.122	1223.317	1226.068	1221.666
<b>17.0</b>	1245.879	1227.169	1218.364	1221.116	1216.713
<b>17.5</b>	1240.376	1221.666	1212.861	1215.613	1211.210
<b>18.0</b>	1234.873	1216.163	1207.358	1210.110	1205.707
<b>18.5</b>	1229.370	1210.660	1201.855	1204.056	1200.204
<b>19.0</b>	1223.867	1205.157	1196.902	1198.553	1193.601
<b>19.5</b>	1217.814	1199.654	1191.399	1191.950	1186.997
<b>20.0</b>	1212.311	1193.601	1186.447	1185.897	1180.393
<b>20.5</b>	1206.258	1188.098	1180.944	1179.293	1173.790
<b>21.0</b>	1200.204	1182.044	1174.890	1172.689	1166.636
<b>21.5</b>	1193.601	1175.991	1168.287	1166.086	1159.482
<b>22.0</b>	1187.547	1169.388	1161.133	1158.932	1152.879
<b>22.5</b>	1180.944	1162.784	1154.529	1151.778	1145.725
<b>23.0</b>	1174.340	1156.180	1147.926	1144.074	1138.571
<b>23.5</b>	1167.737	1149.577	1140.772	1136.920	1131.967
<b>24.0</b>	1160.583	1142.973	1134.168	1129.766	1124.813
<b>24.5</b>	1153.429	1135.819	1127.014	1122.612	1117.659
<b>25.0</b>	1146.825	1128.665	1119.861	1115.458	1110.505
<b>25.5</b>	1139.671	1121.511	1112.156	1108.304	1102.801
<b>26.0</b>	1131.967	1113.807	1105.002	1101.150	1095.647
<b>26.5</b>	1124.813	1106.653	1097.298	1093.996	1088.493

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27.0	1117.109	1098.949	1089.594	1086.842	1080.789
27.5	1109.405	1091.245	1082.440	1079.689	1073.635
28.0	1101.701	1082.990	1074.186	1071.984	1065.931
28.5	1093.446	1074.736	1066.481	1064.831	1058.227
29.0	1085.192	1067.032	1058.777	1057.126	1050.523
29.5	1077.487	1058.777	1051.073	1048.872	1043.369
30.0	1069.233	1050.523	1043.369	1041.168	1035.665
30.5	1060.978	1042.268	1035.114	1033.463	1027.960
31.0	1052.174	1034.564	1026.860	1025.209	1020.256
31.5	1043.919	1026.310	1018.605	1016.954	1012.002
32.0	1035.114	1017.505	1010.351	1008.150	1003.747
32.5	1026.310	1009.250	1002.096	999.895	994.942
33.0	1017.505	1000.996	993.842	991.641	986.138
33.5	1009.250	992.191	985.037	982.836	977.883
34.0	999.895	983.386	976.783	974.031	969.078
34.5	991.090	974.581	967.427	965.226	959.723
35.0	982.285	966.327	958.623	956.421	950.368
35.5	972.930	956.972	949.818	947.617	941.013
36.0	963.575	948.167	941.013	938.261	932.208
36.5	954.770	939.362	932.208	929.457	923.403
37.0	945.415	930.007	922.853	920.102	914.048
37.5	936.060	920.652	914.048	910.746	905.244
38.0	926.155	911.297	904.693	901.391	895.888
38.5	916.800	901.942	895.338	892.587	886.533
39.0	907.995	892.587	885.983	883.231	877.729
39.5	898.090	883.231	877.178	873.876	867.823
40.0	888.735	873.326	867.823	864.521	859.018
40.5	878.829	863.971	858.468	855.166	849.663
41.0	869.474	854.066	849.113	845.261	839.758
41.5	859.569	844.711	839.207	835.906	829.852
42.0	850.213	834.805	829.852	826.551	820.497
42.5	840.858	825.450	820.497	816.645	811.142
43.0	830.953	816.095	811.142	807.290	801.237
43.5	821.598	806.189	801.237	797.935	791.882
44.0	811.692	796.284	791.331	788.030	782.527
44.5	801.787	786.379	781.426	778.124	772.621
45.0	791.882	777.024	772.071	768.219	763.266
45.5	782.527	767.118	762.165	758.864	753.911
46.0	772.621	757.213	752.260	748.958	744.556
46.5	762.716	747.307	742.905	739.603	735.201
47.0	752.810	737.402	733.000	729.698	725.295
47.5	742.355	727.497	723.094	719.792	715.940
48.0	732.449	717.591	713.189	710.437	706.035
48.5	722.544	707.686	703.834	700.532	696.130
49.0	712.088	697.780	693.928	690.626	686.774
49.5	702.183	687.875	684.023	681.271	677.419
50.0	691.727	677.970	674.117	671.366	667.514
50.5	681.271	668.064	664.212	661.461	658.159
51.0	670.816	658.159	654.307	651.555	648.253
51.5	660.910	648.253	644.401	642.200	638.348
52.0	651.005	638.348	634.496	632.295	628.993
52.5	640.549	628.443	624.591	622.940	619.087
53.0	630.644	618.537	614.685	613.034	609.182
53.5	620.188	608.632	604.780	603.129	599.277
54.0	610.283	598.726	595.425	593.774	589.371
54.5	600.377	589.371	585.519	583.868	579.466

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55.0	590.472	580.016	576.164	574.513	570.111
55.5	581.117	570.111	566.259	564.608	560.756
56.0	570.661	560.205	556.353	555.253	550.850
56.5	560.756	550.850	546.723	545.512	541.165
57.0	551.401	540.945	536.983	535.662	531.535
57.5	541.715	531.370	527.297	526.087	521.794
58.0	532.030	521.905	517.557	516.457	512.164
58.5	522.290	512.384	507.982	506.991	502.919
59.0	512.715	502.809	498.352	497.416	493.509
59.5	503.414	493.124	488.556	487.896	484.209
60.0	493.894	483.494	478.871	478.321	474.744
60.5	484.484	474.083	469.516	468.691	465.169
61.0	475.239	464.673	460.216	459.280	455.813
61.5	465.334	455.373	450.971	449.925	446.568
62.0	455.593	445.798	441.396	440.625	437.103
62.5	445.633	436.938	432.371	431.765	428.133
63.0	436.058	429.124	425.437	425.162	422.190
63.5	426.372	420.594	417.678	417.072	413.991
64.0	420.539	412.285	409.643	408.433	404.911
64.5	411.459	403.425	400.563	399.463	396.161
65.0	401.279	393.960	391.593	390.548	387.356
65.5	390.878	384.385	382.238	381.743	378.496
66.0	380.863	375.029	373.103	372.883	369.416
66.5	370.957	365.454	363.803	363.803	360.722
67.0	361.162	355.934	354.613	354.778	351.972
67.5	351.532	346.579	345.368	345.698	342.947
68.0	341.791	337.224	336.123	336.563	333.702
68.5	331.996	327.704	326.823	327.428	324.622
69.0	321.870	318.128	317.468	317.798	315.212
69.5	312.020	308.718	307.948	308.333	305.967
70.0	302.280	299.198	298.648	298.813	296.722
70.5	292.705	289.623	289.238	289.403	287.422
71.0	282.909	280.103	279.993	280.213	278.067
71.5	273.114	270.583	270.803	270.968	269.097
72.0	263.594	261.007	261.448	261.668	260.072
72.5	254.074	251.597	252.313	252.533	251.212
73.0	244.663	242.407	243.398	243.673	242.517
73.5	235.528	233.327	234.483	234.978	233.712
74.0	226.503	224.247	225.678	226.063	225.238
74.5	217.479	215.332	216.928	217.313	216.708
75.0	208.399	206.473	208.289	208.674	208.178
75.5	199.429	197.613	199.704	200.199	199.649
76.0	190.349	189.083	191.229	191.780	191.339
76.5	181.764	180.663	182.810	183.415	183.030
77.0	173.400	172.189	174.555	175.105	174.500
77.5	164.760	163.934	166.301	166.741	166.136
78.0	156.340	155.680	158.046	158.707	158.101
78.5	147.976	147.645	149.902	150.672	150.177
79.0	139.941	139.611	141.922	142.858	142.473
79.5	131.907	131.742	134.053	135.044	134.713
80.0	123.983	124.038	126.184	127.560	127.119
80.5	116.003	116.499	118.700	120.020	119.690
81.0	108.354	109.124	111.271	112.646	112.426
81.5	100.980	101.805	104.007	105.382	105.217
82.0	94.101	94.652	96.908	98.339	98.174
82.5	87.223	87.718	89.919	91.350	91.240

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83.0	80.344	81.114	83.040	84.526	84.636
83.5	73.575	74.511	76.382	77.812	78.143
84.0	67.247	68.017	69.778	71.154	71.649
84.5	60.808	61.634	63.285	64.660	65.156
85.0	54.810	55.470	57.011	58.222	58.662
85.5	48.977	49.307	50.628	51.893	52.334
86.0	43.254	43.364	44.519	45.675	46.225
86.5	37.585	37.585	38.631	39.677	40.172
87.0	31.862	31.862	32.633	33.954	34.339
87.5	26.194	26.249	26.965	28.285	28.781
88.0	20.801	20.746	21.462	22.892	23.443
88.5	15.629	15.298	16.234	17.500	18.270
89.0	10.126	9.960	11.226	12.437	13.262
89.5	4.678	5.558	6.714	7.649	7.924
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.290	3.315	3.060	2.975	3.230
91.0	13.855	7.310	5.950	5.865	5.780
91.5	22.270	14.875	8.840	8.755	8.670
92.0	30.770	24.735	12.750	11.390	11.390
92.5	39.610	34.935	19.720	14.280	14.025
93.0	48.790	44.710	27.880	18.955	17.085
93.5	58.055	54.060	36.635	25.585	22.270
94.0	67.150	63.240	46.325	33.490	29.325
94.5	76.500	72.420	56.440	41.650	36.975
95.0	85.680	81.855	66.385	49.980	44.540
95.5	94.860	90.695	76.075	58.565	52.530
96.0	103.615	99.705	85.595	67.490	60.690
96.5	112.455	108.715	95.115	76.585	69.105
97.0	121.040	117.555	104.550	85.680	78.030
97.5	129.880	126.480	114.070	94.945	86.955
98.0	138.635	135.235	123.335	104.125	95.965
98.5	147.390	144.075	132.260	113.475	104.975
99.0	156.315	153.170	141.355	122.400	114.070
99.5	165.325	162.180	150.535	131.325	122.995
100.0	174.165	171.275	159.715	140.505	131.750
100.5	183.345	180.370	168.895	150.025	140.590
101.0	192.780	189.465	178.245	159.630	150.195
101.5	202.385	198.730	187.765	169.235	160.140
102.0	211.735	208.335	197.285	178.840	170.000
102.5	221.510	217.855	207.145	188.445	179.775
103.0	231.540	227.715	216.920	197.965	189.720
103.5	241.570	237.745	227.290	208.165	199.580
104.0	251.855	247.860	237.830	218.705	209.865
104.5	262.480	258.400	248.370	229.500	220.150
105.0	273.360	269.195	258.825	240.125	230.605
105.5	284.495	280.160	269.620	250.835	240.975
106.0	295.800	291.210	280.585	261.715	251.345
106.5	307.190	302.600	292.060	272.680	261.800
107.0	319.345	314.500	304.300	284.325	273.190
107.5	331.925	326.740	316.710	296.650	285.515
108.0	344.420	339.320	329.375	309.995	298.180
108.5	357.595	352.155	342.040	323.340	311.270
109.0	371.110	365.245	355.045	336.855	324.530
109.5	384.965	378.845	368.730	350.285	337.960
110.0	399.755	392.785	382.755	364.055	351.985
110.5	414.885	407.065	397.120	378.845	366.520

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111.0	430.185	422.025	411.995	394.230	381.140
111.5	445.825	437.410	427.125	409.870	396.185
112.0	462.060	453.220	442.170	425.510	410.550
112.5	478.380	469.455	457.385	441.065	425.765
113.0	495.465	486.200	473.450	457.130	441.660
113.5	513.060	503.710	490.450	474.470	458.745
114.0	530.910	521.560	508.470	492.915	477.700
114.5	549.355	540.005	526.830	512.125	497.845
115.0	568.055	558.960	545.870	531.505	518.245
115.5	587.605	578.085	565.420	550.800	538.390
116.0	607.325	597.975	585.650	571.115	558.875
116.5	628.150	618.375	606.560	591.940	580.720
117.0	649.825	639.200	627.640	614.380	603.245
117.5	665.805	655.435	646.935	635.035	626.110
118.0	686.205	674.390	666.740	656.370	646.425
118.5	709.920	697.000	686.970	676.175	664.700
119.0	733.125	719.270	709.920	698.615	685.015
119.5	756.585	742.985	734.230	721.395	707.795
120.0	780.810	767.550	758.625	746.300	731.850
120.5	804.865	792.455	783.785	772.735	757.520
121.0	830.110	817.870	809.115	799.085	784.805
121.5	855.100	843.030	834.360	825.775	811.495
122.0	881.450	868.700	861.050	852.550	838.270
122.5	906.950	894.200	887.400	878.900	863.600
123.0	933.300	921.400	914.600	907.800	891.650
123.5	960.500	948.600	943.500	936.700	920.550
124.0	987.700	976.650	971.550	965.600	950.300
124.5	1014.900	1003.850	999.600	993.650	979.200
125.0	1042.100	1031.050	1026.800	1021.700	1007.250
125.5	1070.150	1059.100	1054.850	1049.750	1034.450
126.0	1097.350	1086.300	1083.750	1077.800	1061.650
126.5	1124.550	1113.500	1112.650	1107.550	1090.550
127.0	1152.600	1141.550	1141.550	1137.300	1121.150
127.5	1180.650	1168.750	1168.750	1166.200	1151.750
128.0	1207.850	1195.950	1196.800	1195.100	1180.650
128.5	1235.050	1222.300	1224.000	1224.000	1208.700
129.0	1262.250	1248.650	1251.200	1252.050	1237.600
129.5	1289.450	1275.850	1279.250	1280.950	1267.350
130.0	1316.650	1303.050	1307.300	1309.850	1298.800
130.5	1343.850	1329.400	1336.200	1337.900	1328.550
131.0	1371.050	1355.750	1363.400	1365.100	1355.750
131.5	1396.550	1381.250	1390.600	1390.600	1382.100
132.0	1422.900	1406.750	1416.950	1417.800	1407.600
132.5	1448.400	1433.100	1443.300	1444.150	1433.100
133.0	1473.900	1459.450	1468.800	1470.500	1457.750
133.5	1499.400	1484.950	1495.150	1496.850	1484.100
134.0	1524.900	1509.600	1519.800	1522.350	1509.600
134.5	1547.850	1534.250	1543.600	1545.300	1534.250
135.0	1570.800	1558.050	1566.550	1568.250	1556.350
135.5	1592.900	1582.700	1589.500	1590.350	1578.450
136.0	1615.000	1605.650	1610.750	1613.300	1601.400
136.5	1637.950	1627.750	1632.000	1636.250	1625.200
137.0	1659.200	1649.850	1654.100	1657.500	1647.300
137.5	1680.450	1670.250	1674.500	1677.050	1666.850
138.0	1700.850	1690.650	1694.050	1695.750	1685.550
138.5	1721.250	1710.200	1713.600	1714.450	1703.400

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1740.800	1729.750	1733.150	1733.150	1721.250
139.5	1760.350	1749.300	1751.850	1751.000	1738.250
140.0	1779.050	1767.150	1770.550	1769.700	1756.950
140.5	1796.900	1784.150	1787.550	1786.700	1773.100
141.0	1814.750	1802.000	1804.550	1802.850	1789.250
141.5	1830.900	1818.150	1821.550	1819.000	1803.700
142.0	1847.900	1835.150	1837.700	1834.300	1819.000
142.5	1864.050	1851.300	1853.850	1850.450	1833.450
143.0	1880.200	1866.600	1869.150	1865.750	1848.750
143.5	1895.500	1882.750	1884.450	1881.050	1863.200
144.0	1909.950	1898.050	1898.900	1894.650	1876.800
144.5	1924.400	1912.500	1913.350	1908.250	1890.400
145.0	1938.000	1926.950	1926.950	1921.000	1903.150
145.5	1952.450	1941.400	1940.550	1935.450	1916.750
146.0	1966.050	1955.000	1954.150	1948.200	1930.350
146.5	1979.650	1968.600	1966.900	1961.800	1943.950
147.0	1992.400	1982.200	1978.800	1975.400	1957.550
147.5	2005.150	1994.950	1991.550	1988.150	1970.300
148.0	2017.900	2007.700	2002.600	2000.050	1983.900
148.5	2030.650	2020.450	2013.650	2011.950	1997.500
149.0	2042.550	2033.200	2024.700	2023.850	2011.100
149.5	2054.450	2045.100	2034.900	2035.750	2023.850
150.0	2066.350	2057.000	2045.950	2046.800	2035.750
150.5	2078.250	2068.900	2056.150	2057.000	2047.650
151.0	2089.300	2079.950	2066.350	2067.200	2058.700
151.5	2101.200	2091.000	2077.400	2077.400	2068.900
152.0	2112.250	2102.050	2087.600	2086.750	2079.100
152.5	2123.300	2112.250	2097.800	2096.950	2088.450
153.0	2134.350	2122.450	2108.000	2107.150	2096.950
153.5	2144.550	2132.650	2118.200	2117.350	2104.600
154.0	2154.750	2142.850	2129.250	2127.550	2113.100
154.5	2165.800	2152.200	2139.450	2136.900	2121.600
155.0	2176.000	2161.550	2149.650	2147.100	2130.950
155.5	2185.350	2170.050	2159.850	2157.300	2140.300
156.0	2194.700	2179.400	2170.900	2166.650	2149.650
156.5	2204.050	2188.750	2181.100	2176.850	2159.000
157.0	2213.400	2198.100	2191.300	2187.050	2168.350
157.5	2221.900	2206.600	2200.650	2196.400	2177.700
158.0	2230.400	2215.100	2210.000	2205.750	2187.050
158.5	2239.750	2224.450	2219.350	2215.100	2197.250
159.0	2247.400	2232.950	2227.850	2224.450	2206.600
159.5	2255.900	2241.450	2236.350	2233.800	2215.950
160.0	2263.550	2249.100	2244.850	2242.300	2225.300
160.5	2271.200	2256.750	2252.500	2250.800	2234.650
161.0	2278.850	2264.400	2260.150	2259.300	2244.000
161.5	2286.500	2272.900	2266.950	2267.800	2253.350
162.0	2295.000	2280.550	2273.750	2276.300	2261.850
162.5	2302.650	2288.200	2280.550	2283.950	2269.500
163.0	2310.300	2295.850	2287.350	2291.600	2277.150
163.5	2317.950	2302.650	2294.150	2299.250	2283.950
164.0	2325.600	2309.450	2300.100	2306.050	2290.750
164.5	2331.550	2316.250	2306.050	2312.850	2297.550
165.0	2338.350	2323.050	2312.000	2319.650	2303.500
165.5	2345.150	2329.000	2317.950	2325.600	2309.450
166.0	2351.950	2334.950	2323.900	2331.550	2314.550
166.5	2358.750	2340.900	2329.850	2336.650	2320.500

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2364.700	2346.000	2334.950	2341.750	2325.600
167.5	2370.650	2351.100	2340.900	2346.850	2331.550
168.0	2376.600	2356.200	2346.000	2351.950	2336.650
168.5	2382.550	2361.300	2351.100	2357.050	2342.600
169.0	2387.650	2365.550	2356.200	2361.300	2347.700
169.5	2391.900	2369.800	2360.450	2365.550	2352.800
170.0	2396.150	2374.050	2364.700	2369.800	2358.750
170.5	2400.400	2378.300	2368.100	2374.050	2363.000
171.0	2404.650	2381.700	2371.500	2378.300	2367.250
171.5	2408.050	2385.100	2374.900	2382.550	2371.500
172.0	2411.450	2388.500	2377.450	2385.950	2374.900
172.5	2414.850	2391.900	2380.000	2388.500	2377.450
173.0	2418.250	2395.300	2382.550	2391.900	2379.150
173.5	2420.800	2397.850	2385.100	2393.600	2380.850
174.0	2423.350	2400.400	2387.650	2395.300	2381.700
174.5	2425.050	2402.100	2389.350	2397.000	2382.550
175.0	2426.750	2404.650	2391.050	2397.850	2382.550
175.5	2428.450	2406.350	2393.600	2398.700	2383.400
176.0	2430.150	2408.050	2395.300	2398.700	2383.400
176.5	2431.000	2409.750	2396.150	2399.550	2383.400
177.0	2431.850	2411.450	2397.850	2399.550	2382.550
177.5	2433.550	2413.150	2399.550	2399.550	2382.550
178.0	2434.400	2413.150	2400.400	2399.550	2383.400
178.5	2434.400	2414.000	2401.250	2399.550	2383.400
179.0	2435.250	2414.850	2401.250	2399.550	2383.400
179.5	2436.100	2414.850	2402.100	2399.550	2383.400
180.0	2406.350	2406.350	2406.350	2406.350	2406.350



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	474.13	N.A.	5.00
0-30	991.25	N.A.	10.50
0-40	1592.46	N.A.	16.80
0-60	2705.95	N.A.	28.60
0-80	3313.74	N.A.	35.00
0-90	3377.96	N.A.	35.70
10-90	3254.2	N.A.	34.40
20-40	1118.33	N.A.	11.80
20-50	1715.15	N.A.	18.10
40-70	1500.46	N.A.	15.90
60-80	607.79	N.A.	6.40
70-80	220.82	N.A.	2.30
80-90	64.22	N.A.	0.70
90-110	348.24	N.A.	3.70
90-120	893.96	N.A.	9.40
90-130	1811.03	N.A.	19.10
90-150	4212.31	N.A.	44.50
90-180	6087.9	N.A.	64.30
110-180	5739.66	N.A.	60.60
0-180	9465.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.76
10-20	350.38
20-30	517.12
30-40	601.21
40-50	596.82
50-60	516.67
60-70	386.97
70-80	220.82
80-90	64.22
90-100	75.11
100-110	273.13
110-120	545.72
120-130	917.06
130-140	1199.14
140-150	1202.14
150-160	993.03
160-170	654.37
170-180	228.20

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-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	14.7	15.0	15.8	17.2	13.8	14.6	14.9	15.7	17.1
	3H	15.7	16.4	16.8	17.4	18.9	15.6	16.3	16.7	17.4	18.8
	4H	16.3	16.9	17.4	18.0	19.5	16.2	16.9	17.3	17.9	19.4
	6H	16.7	17.3	17.8	18.4	19.9	16.7	17.3	17.8	18.4	19.8
	8H	16.9	17.4	18.0	18.5	20.0	16.8	17.4	17.9	18.5	20.0
	12H	16.9	17.5	18.0	18.6	20.1	16.9	17.4	18.0	18.5	20.1

### UGR Viewed Endwise

4H	2H	14.5	15.1	15.6	16.2	17.7	14.4	15.0	15.5	16.1	17.6
	3H	16.4	16.9	17.5	18.1	19.5	16.3	16.9	17.4	18.0	19.5
	4H	17.2	17.6	18.3	18.7	20.3	17.1	17.6	18.2	18.7	20.2
	6H	17.7	18.1	18.8	19.2	20.7	17.7	18.1	18.8	19.2	20.7
	8H	17.9	18.3	19.0	19.4	20.9	17.9	18.3	19.0	19.4	20.9
	12H	18.0	18.3	19.1	19.5	21.0	18.0	18.4	19.1	19.5	21.0

8H	4H	17.4	17.8	18.5	18.9	20.4	17.3	17.7	18.5	18.8	20.4
	6H	18.1	18.4	19.2	19.5	21.1	18.1	18.4	19.2	19.5	21.1
	8H	18.3	18.6	19.5	19.7	21.3	18.3	18.6	19.5	19.8	21.3
	12H	18.5	18.8	19.7	19.9	21.5	18.6	18.8	19.7	19.9	21.5

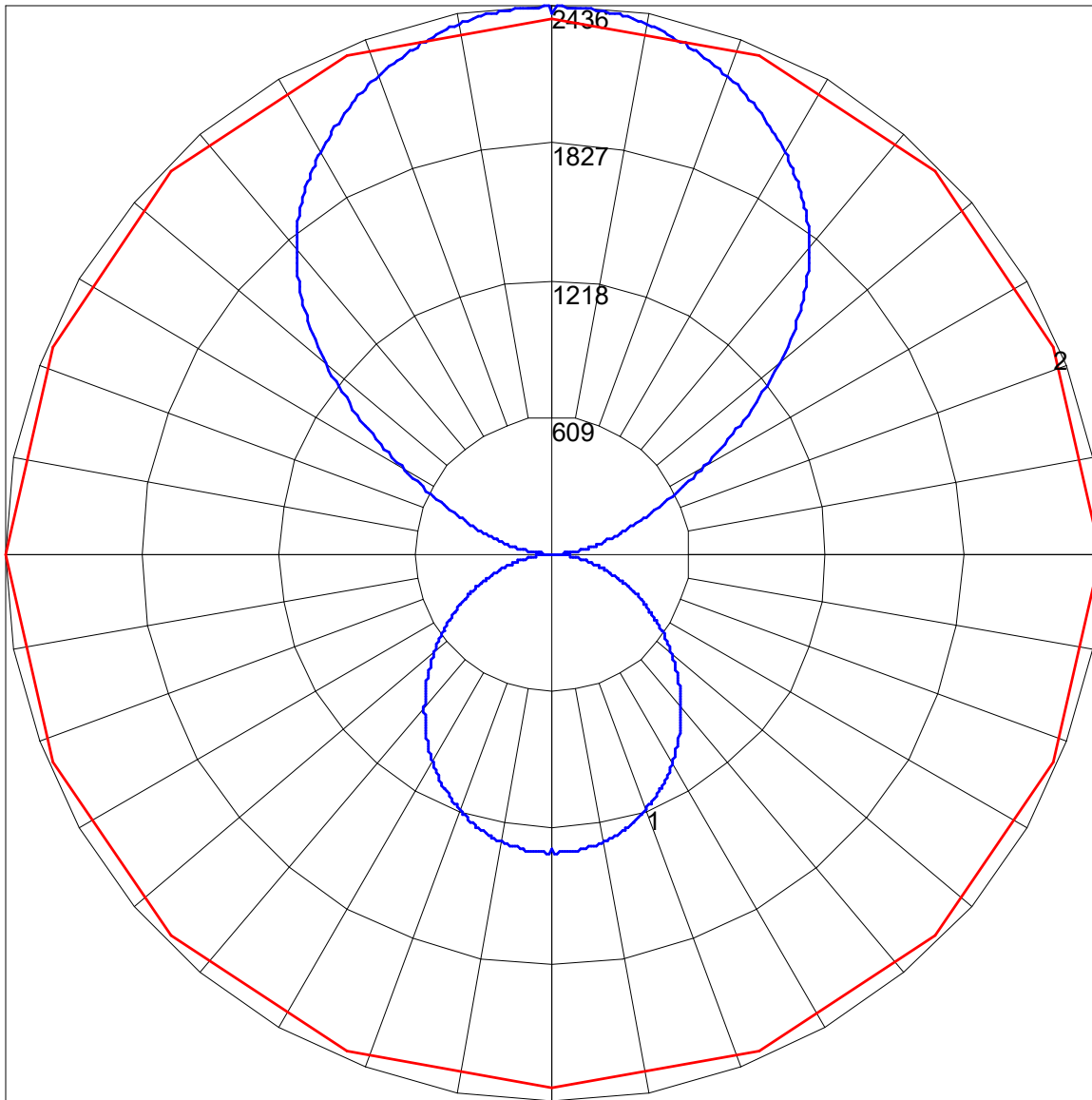
12H	4H	17.4	17.7	18.5	18.9	20.4	17.3	17.7	18.5	18.8	20.3
	6H	18.1	18.4	19.2	19.5	21.1	18.1	18.4	19.2	19.5	21.1
	8H	18.4	18.7	19.5	19.8	21.4	18.4	18.7	19.6	19.8	21.4

Maximum UGR = 21.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-835U-L8-835D-F-F-DIMU-DIMD-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2436.1 Located At Horizontal Angle = 0, Vertical Angle = 179.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (179.5) (Through Max. Cd.)