



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-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] 2/33/2026
 [TEST DATE] 2/19/2024
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX4UDC-4'00-L12-835U-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	8248
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	68.4
Ballast Factor	1.00
CIE Type	General Diffuse
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-L12-835U-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>
0.0	1311.915	1311.915	1311.915	1311.915	1311.915
0.5	1331.726	1313.016	1306.412	1309.164	1304.761
1.0	1331.726	1312.466	1306.412	1309.164	1304.761
1.5	1331.176	1311.915	1305.862	1309.164	1304.211
2.0	1330.625	1311.365	1305.312	1308.613	1304.211
2.5	1330.075	1310.815	1304.211	1308.063	1303.661
3.0	1328.975	1309.714	1303.661	1307.513	1302.560
3.5	1327.874	1308.613	1302.560	1306.412	1301.459
4.0	1326.773	1307.513	1301.459	1305.312	1300.359
4.5	1325.673	1305.862	1300.359	1304.211	1298.708
5.0	1324.572	1304.761	1298.708	1302.560	1297.057
5.5	1322.921	1303.110	1297.057	1300.909	1295.406
6.0	1321.270	1300.909	1295.406	1299.258	1293.205
6.5	1319.069	1299.258	1293.205	1297.057	1291.554
7.0	1317.418	1297.057	1291.554	1294.856	1289.353
7.5	1315.767	1294.856	1289.353	1292.655	1287.702
8.0	1313.016	1292.655	1286.601	1290.454	1285.501
8.5	1310.815	1289.903	1283.850	1287.702	1282.749
9.0	1308.063	1287.702	1281.649	1284.950	1279.998
9.5	1305.312	1284.950	1278.347	1281.649	1277.246
10.0	1302.560	1282.199	1275.595	1278.897	1273.945
10.5	1299.258	1278.897	1272.294	1275.595	1271.193
11.0	1296.507	1275.595	1268.992	1272.294	1267.341
11.5	1292.655	1272.294	1265.690	1268.992	1264.039
12.0	1289.353	1268.992	1262.388	1265.140	1260.187
12.5	1286.051	1265.140	1258.536	1261.288	1256.335
13.0	1282.199	1261.838	1254.684	1257.436	1252.483
13.5	1278.347	1257.436	1250.832	1253.033	1248.631
14.0	1274.495	1253.583	1246.429	1249.181	1244.779
14.5	1270.643	1249.731	1242.027	1244.779	1240.376
15.0	1266.791	1245.329	1237.625	1240.376	1235.974
15.5	1261.838	1241.477	1233.222	1235.424	1231.021
16.0	1256.335	1237.074	1228.270	1231.021	1226.619
16.5	1250.832	1232.122	1223.317	1226.068	1221.666
17.0	1245.879	1227.169	1218.364	1221.116	1216.713
17.5	1240.376	1221.666	1212.861	1215.613	1211.210
18.0	1234.873	1216.163	1207.358	1210.110	1205.707
18.5	1229.370	1210.660	1201.855	1204.056	1200.204
19.0	1223.867	1205.157	1196.902	1198.553	1193.601
19.5	1217.814	1199.654	1191.399	1191.950	1186.997
20.0	1212.311	1193.601	1186.447	1185.897	1180.393
20.5	1206.258	1188.098	1180.944	1179.293	1173.790
21.0	1200.204	1182.044	1174.890	1172.689	1166.636
21.5	1193.601	1175.991	1168.287	1166.086	1159.482
22.0	1187.547	1169.388	1161.133	1158.932	1152.879
22.5	1180.944	1162.784	1154.529	1151.778	1145.725
23.0	1174.340	1156.180	1147.926	1144.074	1138.571
23.5	1167.737	1149.577	1140.772	1136.920	1131.967
24.0	1160.583	1142.973	1134.168	1129.766	1124.813
24.5	1153.429	1135.819	1127.014	1122.612	1117.659
25.0	1146.825	1128.665	1119.861	1115.458	1110.505
25.5	1139.671	1121.511	1112.156	1108.304	1102.801
26.0	1131.967	1113.807	1105.002	1101.150	1095.647
26.5	1124.813	1106.653	1097.298	1093.996	1088.493

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES****CANDELA TABULATION - (Cont.)**

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	5.032	2.652	2.448	2.380	2.584
91.0	11.084	5.848	4.760	4.692	4.624
91.5	17.816	11.900	7.072	7.004	6.936
92.0	24.616	19.788	10.200	9.112	9.112
92.5	31.688	27.948	15.776	11.424	11.220
93.0	39.032	35.768	22.304	15.164	13.668
93.5	46.444	43.248	29.308	20.468	17.816
94.0	53.720	50.592	37.060	26.792	23.460
94.5	61.200	57.936	45.152	33.320	29.580
95.0	68.544	65.484	53.108	39.984	35.632
95.5	75.888	72.556	60.860	46.852	42.024
96.0	82.892	79.764	68.476	53.992	48.552
96.5	89.964	86.972	76.092	61.268	55.284
97.0	96.832	94.044	83.640	68.544	62.424
97.5	103.904	101.184	91.256	75.956	69.564
98.0	110.908	108.188	98.668	83.300	76.772
98.5	117.912	115.260	105.808	90.780	83.980
99.0	125.052	122.536	113.084	97.920	91.256
99.5	132.260	129.744	120.428	105.060	98.396
100.0	139.332	137.020	127.772	112.404	105.400
100.5	146.676	144.296	135.116	120.020	112.472
101.0	154.224	151.572	142.596	127.704	120.156
101.5	161.908	158.984	150.212	135.388	128.112
102.0	169.388	166.668	157.828	143.072	136.000
102.5	177.208	174.284	165.716	150.756	143.820
103.0	185.232	182.172	173.536	158.372	151.776
103.5	193.256	190.196	181.832	166.532	159.664
104.0	201.484	198.288	190.264	174.964	167.892
104.5	209.984	206.720	198.696	183.600	176.120
105.0	218.688	215.356	207.060	192.100	184.484
105.5	227.596	224.128	215.696	200.668	192.780
106.0	236.640	232.968	224.468	209.372	201.076
106.5	245.752	242.080	233.648	218.144	209.440
107.0	255.476	251.600	243.440	227.460	218.552
107.5	265.540	261.392	253.368	237.320	228.412
108.0	275.536	271.456	263.500	247.996	238.544
108.5	286.076	281.724	273.632	258.672	249.016
109.0	296.888	292.196	284.036	269.484	259.624
109.5	307.972	303.076	294.984	280.228	270.368
110.0	319.804	314.228	306.204	291.244	281.588
110.5	331.908	325.652	317.696	303.076	293.216

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_IES****CANDELA TABULATION - (Cont.)**

111.0	344.148	337.620	329.596	315.384	304.912
111.5	356.660	349.928	341.700	327.896	316.948
112.0	369.648	362.576	353.736	340.408	328.440
112.5	382.704	375.564	365.908	352.852	340.612
113.0	396.372	388.960	378.760	365.704	353.328
113.5	410.448	402.968	392.360	379.576	366.996
114.0	424.728	417.248	406.776	394.332	382.160
114.5	439.484	432.004	421.464	409.700	398.276
115.0	454.444	447.168	436.696	425.204	414.596
115.5	470.084	462.468	452.336	440.640	430.712
116.0	485.860	478.380	468.520	456.892	447.100
116.5	502.520	494.700	485.248	473.552	464.576
117.0	519.860	511.360	502.112	491.504	482.596
117.5	532.644	524.348	517.548	508.028	500.888
118.0	548.964	539.512	533.392	525.096	517.140
118.5	567.936	557.600	549.576	540.940	531.760
119.0	586.500	575.416	567.936	558.892	548.012
119.5	605.268	594.388	587.384	577.116	566.236
120.0	624.648	614.040	606.900	597.040	585.480
120.5	643.892	633.964	627.028	618.188	606.016
121.0	664.088	654.296	647.292	639.268	627.844
121.5	684.080	674.424	667.488	660.620	649.196
122.0	705.160	694.960	688.840	682.040	670.616
122.5	725.560	715.360	709.920	703.120	690.880
123.0	746.640	737.120	731.680	726.240	713.320
123.5	768.400	758.880	754.800	749.360	736.440
124.0	790.160	781.320	777.240	772.480	760.240
124.5	811.920	803.080	799.680	794.920	783.360
125.0	833.680	824.840	821.440	817.360	805.800
125.5	856.120	847.280	843.880	839.800	827.560
126.0	877.880	869.040	867.000	862.240	849.320
126.5	899.640	890.800	890.120	886.040	872.440
127.0	922.080	913.240	913.240	909.840	896.920
127.5	944.520	935.000	935.000	932.960	921.400
128.0	966.280	956.760	957.440	956.080	944.520
128.5	988.040	977.840	979.200	979.200	966.960
129.0	1009.800	998.920	1000.960	1001.640	990.080
129.5	1031.560	1020.680	1023.400	1024.760	1013.880
130.0	1053.320	1042.440	1045.840	1047.880	1039.040
130.5	1075.080	1063.520	1068.960	1070.320	1062.840
131.0	1096.840	1084.600	1090.720	1092.080	1084.600
131.5	1117.240	1105.000	1112.480	1112.480	1105.680
132.0	1138.320	1125.400	1133.560	1134.240	1126.080
132.5	1158.720	1146.480	1154.640	1155.320	1146.480
133.0	1179.120	1167.560	1175.040	1176.400	1166.200
133.5	1199.520	1187.960	1196.120	1197.480	1187.280
134.0	1219.920	1207.680	1215.840	1217.880	1207.680
134.5	1238.280	1227.400	1234.880	1236.240	1227.400
135.0	1256.640	1246.440	1253.240	1254.600	1245.080
135.5	1274.320	1266.160	1271.600	1272.280	1262.760
136.0	1292.000	1284.520	1288.600	1290.640	1281.120
136.5	1310.360	1302.200	1305.600	1309.000	1300.160
137.0	1327.360	1319.880	1323.280	1326.000	1317.840
137.5	1344.360	1336.200	1339.600	1341.640	1333.480
138.0	1360.680	1352.520	1355.240	1356.600	1348.440
138.5	1377.000	1368.160	1370.880	1371.560	1362.720

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_IES****CANDELA TABULATION - (Cont.)**

139.0	1392.640	1383.800	1386.520	1386.520	1377.000
139.5	1408.280	1399.440	1401.480	1400.800	1390.600
140.0	1423.240	1413.720	1416.440	1415.760	1405.560
140.5	1437.520	1427.320	1430.040	1429.360	1418.480
141.0	1451.800	1441.600	1443.640	1442.280	1431.400
141.5	1464.720	1454.520	1457.240	1455.200	1442.960
142.0	1478.320	1468.120	1470.160	1467.440	1455.200
142.5	1491.240	1481.040	1483.080	1480.360	1466.760
143.0	1504.160	1493.280	1495.320	1492.600	1479.000
143.5	1516.400	1506.200	1507.560	1504.840	1490.560
144.0	1527.960	1518.440	1519.120	1515.720	1501.440
144.5	1539.520	1530.000	1530.680	1526.600	1512.320
145.0	1550.400	1541.560	1541.560	1536.800	1522.520
145.5	1561.960	1553.120	1552.440	1548.360	1533.400
146.0	1572.840	1564.000	1563.320	1558.560	1544.280
146.5	1583.720	1574.880	1573.520	1569.440	1555.160
147.0	1593.920	1585.760	1583.040	1580.320	1566.040
147.5	1604.120	1595.960	1593.240	1590.520	1576.240
148.0	1614.320	1606.160	1602.080	1600.040	1587.120
148.5	1624.520	1616.360	1610.920	1609.560	1598.000
149.0	1634.040	1626.560	1619.760	1619.080	1608.880
149.5	1643.560	1636.080	1627.920	1628.600	1619.080
150.0	1653.080	1645.600	1636.760	1637.440	1628.600
150.5	1662.600	1655.120	1644.920	1645.600	1638.120
151.0	1671.440	1663.960	1653.080	1653.760	1646.960
151.5	1680.960	1672.800	1661.920	1661.920	1655.120
152.0	1689.800	1681.640	1670.080	1669.400	1663.280
152.5	1698.640	1689.800	1678.240	1677.560	1670.760
153.0	1707.480	1697.960	1686.400	1685.720	1677.560
153.5	1715.640	1706.120	1694.560	1693.880	1683.680
154.0	1723.800	1714.280	1703.400	1702.040	1690.480
154.5	1732.640	1721.760	1711.560	1709.520	1697.280
155.0	1740.800	1729.240	1719.720	1717.680	1704.760
155.5	1748.280	1736.040	1727.880	1725.840	1712.240
156.0	1755.760	1743.520	1736.720	1733.320	1719.720
156.5	1763.240	1751.000	1744.880	1741.480	1727.200
157.0	1770.720	1758.480	1753.040	1749.640	1734.680
157.5	1777.520	1765.280	1760.520	1757.120	1742.160
158.0	1784.320	1772.080	1768.000	1764.600	1749.640
158.5	1791.800	1779.560	1775.480	1772.080	1757.800
159.0	1797.920	1786.360	1782.280	1779.560	1765.280
159.5	1804.720	1793.160	1789.080	1787.040	1772.760
160.0	1810.840	1799.280	1795.880	1793.840	1780.240
160.5	1816.960	1805.400	1802.000	1800.640	1787.720
161.0	1823.080	1811.520	1808.120	1807.440	1795.200
161.5	1829.200	1818.320	1813.560	1814.240	1802.680
162.0	1836.000	1824.440	1819.000	1821.040	1809.480
162.5	1842.120	1830.560	1824.440	1827.160	1815.600
163.0	1848.240	1836.680	1829.880	1833.280	1821.720
163.5	1854.360	1842.120	1835.320	1839.400	1827.160
164.0	1860.480	1847.560	1840.080	1844.840	1832.600
164.5	1865.240	1853.000	1844.840	1850.280	1838.040
165.0	1870.680	1858.440	1849.600	1855.720	1842.800
165.5	1876.120	1863.200	1854.360	1860.480	1847.560
166.0	1881.560	1867.960	1859.120	1865.240	1851.640
166.5	1887.000	1872.720	1863.880	1869.320	1856.400

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1891.760	1876.800	1867.960	1873.400	1860.480
167.5	1896.520	1880.880	1872.720	1877.480	1865.240
168.0	1901.280	1884.960	1876.800	1881.560	1869.320
168.5	1906.040	1889.040	1880.880	1885.640	1874.080
169.0	1910.120	1892.440	1884.960	1889.040	1878.160
169.5	1913.520	1895.840	1888.360	1892.440	1882.240
170.0	1916.920	1899.240	1891.760	1895.840	1887.000
170.5	1920.320	1902.640	1894.480	1899.240	1890.400
171.0	1923.720	1905.360	1897.200	1902.640	1893.800
171.5	1926.440	1908.080	1899.920	1906.040	1897.200
172.0	1929.160	1910.800	1901.960	1908.760	1899.920
172.5	1931.880	1913.520	1904.000	1910.800	1901.960
173.0	1934.600	1916.240	1906.040	1913.520	1903.320
173.5	1936.640	1918.280	1908.080	1914.880	1904.680
174.0	1938.680	1920.320	1910.120	1916.240	1905.360
174.5	1940.040	1921.680	1911.480	1917.600	1906.040
175.0	1941.400	1923.720	1912.840	1918.280	1906.040
175.5	1942.760	1925.080	1914.880	1918.960	1906.720
176.0	1944.120	1926.440	1916.240	1918.960	1906.720
176.5	1944.800	1927.800	1916.920	1919.640	1906.720
177.0	1945.480	1929.160	1918.280	1919.640	1906.040
177.5	1946.840	1930.520	1919.640	1919.640	1906.040
178.0	1947.520	1930.520	1920.320	1919.640	1906.720
178.5	1947.520	1931.200	1921.000	1919.640	1906.720
179.0	1948.200	1931.880	1921.000	1919.640	1906.720
179.5	1948.880	1931.880	1921.680	1919.640	1906.720
180.0	1925.080	1925.080	1925.080	1925.080	1925.080

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	474.13	N.A.	5.70
0-30	991.25	N.A.	12.00
0-40	1592.46	N.A.	19.30
0-60	2705.95	N.A.	32.80
0-80	3313.74	N.A.	40.20
0-90	3377.96	N.A.	41.00
10-90	3254.2	N.A.	39.50
20-40	1118.33	N.A.	13.60
20-50	1715.15	N.A.	20.80
40-70	1500.46	N.A.	18.20
60-80	607.79	N.A.	7.40
70-80	220.82	N.A.	2.70
80-90	64.22	N.A.	0.80
90-110	278.59	N.A.	3.40
90-120	715.17	N.A.	8.70
90-130	1448.82	N.A.	17.60
90-150	3369.85	N.A.	40.90
90-180	4870.32	N.A.	59.00
110-180	4591.73	N.A.	55.70
0-180	8248.28	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	60.09
100-110	218.50
110-120	436.58
120-130	733.65
130-140	959.31
140-150	961.71
150-160	794.42
160-170	523.49
170-180	182.56

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	91	88	84	87	83	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	42	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	30	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	27	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-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	14.5	15.3	15.5	16.3	17.7	14.4	15.2	15.4	16.2	17.6
	3H	16.3	17.0	17.3	18.0	19.4	16.2	16.9	17.2	17.9	19.3
	4H	16.9	17.5	17.9	18.6	20.0	16.8	17.5	17.9	18.5	19.9
	6H	17.3	17.9	18.4	19.0	20.4	17.3	17.9	18.3	18.9	20.4
	8H	17.4	18.0	18.5	19.1	20.5	17.4	18.0	18.5	19.1	20.5
	12H	17.5	18.1	18.6	19.1	20.6	17.5	18.0	18.6	19.1	20.6

UGR Viewed Endwise

4H	2H	15.0	15.7	16.1	16.8	18.2	15.0	15.6	16.0	16.7	18.1
	3H	17.0	17.5	18.1	18.6	20.1	16.9	17.5	18.0	18.6	20.0
	4H	17.7	18.2	18.8	19.3	20.8	17.7	18.2	18.7	19.3	20.7
	6H	18.3	18.7	19.4	19.8	21.3	18.3	18.7	19.3	19.8	21.2
	8H	18.5	18.9	19.5	20.0	21.4	18.5	18.9	19.5	20.0	21.4
	12H	18.6	18.9	19.7	20.0	21.5	18.6	19.0	19.7	20.1	21.5

8H	4H	18.0	18.4	19.0	19.5	20.9	17.9	18.3	19.0	19.4	20.9
	6H	18.7	19.0	19.8	20.1	21.6	18.6	19.0	19.8	20.1	21.6
	8H	18.9	19.2	20.0	20.3	21.8	18.9	19.2	20.0	20.3	21.8
	12H	19.1	19.4	20.2	20.5	22.0	19.1	19.4	20.3	20.5	22.0

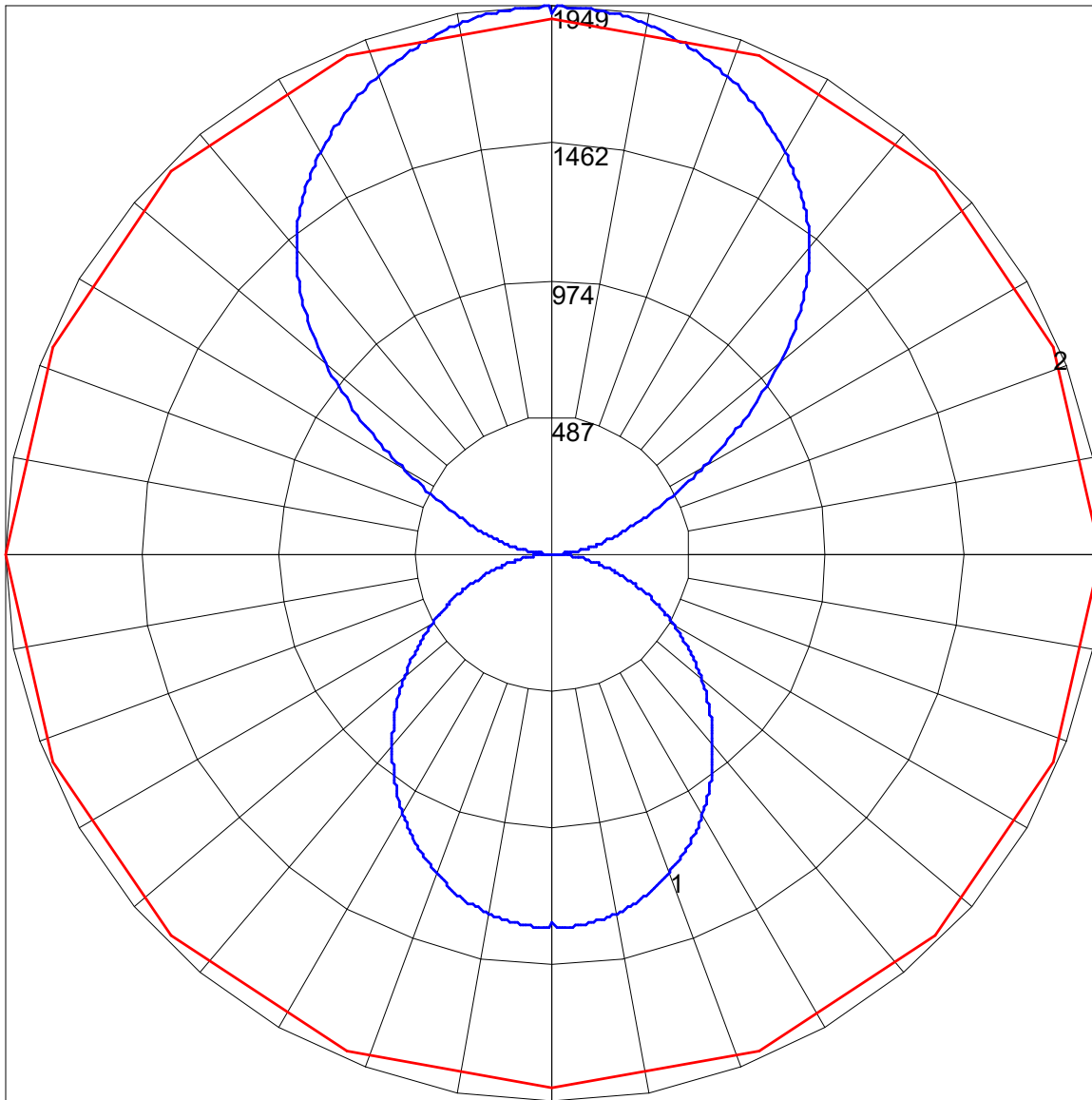
12H	4H	18.0	18.3	19.1	19.4	20.9	17.9	18.3	19.0	19.4	20.9
	6H	18.7	19.0	19.8	20.1	21.6	18.7	19.0	19.8	20.1	21.6
	8H	19.0	19.3	20.1	20.4	21.9	19.0	19.3	20.1	20.4	21.9

Maximum UGR = 22.0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4'00-L12-835U-L8-835D-F-F-DIMU-DIMD-UNV_.IES

POLAR GRAPH



Maximum Candela = 1948.88 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.)