

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-DIM-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] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUDC-4-00-L12-930U-L8-930D-F-F-DIM-UNV\_

[LUMINAIRE] White linear extruded luminaire with up and downlight

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

[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	6763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	9202	8972	8869
55	8459	8254	8167
65	7802	7613	7531
75	6616	6613	6609
85	5167	5375	5530

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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	1335.190	1335.190	1335.190	1335.190	1335.190
0.5	1355.353	1336.310	1329.590	1332.390	1327.909
1.0	1355.353	1335.750	1329.590	1332.390	1327.909
1.5	1354.792	1335.190	1329.030	1332.390	1327.349
2.0	1354.232	1334.630	1328.470	1331.830	1327.349
2.5	1353.672	1334.070	1327.349	1331.270	1326.789
3.0	1352.552	1332.950	1326.789	1330.710	1325.669
3.5	1351.432	1331.830	1325.669	1329.590	1324.549
4.0	1350.312	1330.710	1324.549	1328.470	1323.429
4.5	1349.192	1329.030	1323.429	1327.349	1321.749
5.0	1348.072	1327.909	1321.749	1325.669	1320.069
5.5	1346.392	1326.229	1320.069	1323.989	1318.388
6.0	1344.711	1323.989	1318.388	1322.309	1316.148
6.5	1342.471	1322.309	1316.148	1320.069	1314.468
7.0	1340.791	1320.069	1314.468	1317.828	1312.228
7.5	1339.111	1317.828	1312.228	1315.588	1310.548
8.0	1336.310	1315.588	1309.427	1313.348	1308.307
8.5	1334.070	1312.788	1306.627	1310.548	1305.507
9.0	1331.270	1310.548	1304.387	1307.747	1302.707
9.5	1328.470	1307.747	1301.026	1304.387	1299.906
10.0	1325.669	1304.947	1298.226	1301.587	1296.546
10.5	1322.309	1301.587	1294.866	1298.226	1293.746
11.0	1319.509	1298.226	1291.505	1294.866	1289.825
11.5	1315.588	1294.866	1288.145	1291.505	1286.465
12.0	1312.228	1291.505	1284.785	1287.585	1282.544
12.5	1308.867	1287.585	1280.864	1283.664	1278.624
13.0	1304.947	1284.225	1276.944	1279.744	1274.703
13.5	1301.026	1279.744	1273.023	1275.264	1270.783
14.0	1297.106	1275.824	1268.543	1271.343	1266.863
14.5	1293.186	1271.903	1264.062	1266.863	1262.382
15.0	1289.265	1267.423	1259.582	1262.382	1257.902
15.5	1284.225	1263.502	1255.101	1257.342	1252.861
16.0	1278.624	1259.022	1250.061	1252.861	1248.381
16.5	1273.023	1253.981	1245.020	1247.820	1243.340
17.0	1267.983	1248.941	1239.980	1242.780	1238.299
17.5	1262.382	1243.340	1234.379	1237.179	1232.699
18.0	1256.781	1237.739	1228.778	1231.579	1227.098
18.5	1251.181	1232.139	1223.178	1225.418	1221.497
19.0	1245.580	1226.538	1218.137	1219.817	1214.777
19.5	1239.420	1220.937	1212.536	1213.097	1208.056
20.0	1233.819	1214.777	1207.496	1206.936	1201.335
20.5	1227.658	1209.176	1201.895	1200.215	1194.614
21.0	1221.497	1203.015	1195.735	1193.494	1187.334
21.5	1214.777	1196.855	1189.014	1186.774	1180.053
22.0	1208.616	1190.134	1181.733	1179.493	1173.332
22.5	1201.895	1183.413	1175.012	1172.212	1166.051
23.0	1195.175	1176.692	1168.292	1164.371	1158.770
23.5	1188.454	1169.972	1161.011	1157.090	1152.050
24.0	1181.173	1163.251	1154.290	1149.809	1144.769
24.5	1173.892	1155.970	1147.009	1142.529	1137.488
25.0	1167.171	1148.689	1139.728	1135.248	1130.207
25.5	1159.891	1141.408	1131.887	1127.967	1122.366
26.0	1152.050	1133.568	1124.607	1120.686	1115.086
26.5	1144.769	1126.287	1116.766	1113.405	1107.805

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27.0	1136.928	1118.446	1108.925	1106.125	1099.964
27.5	1129.087	1110.605	1101.644	1098.844	1092.683
28.0	1121.246	1102.204	1093.243	1091.003	1084.842
28.5	1112.845	1093.803	1085.402	1083.722	1077.001
29.0	1104.444	1085.962	1077.561	1075.881	1069.160
29.5	1096.603	1077.561	1069.720	1067.480	1061.880
30.0	1088.202	1069.160	1061.880	1059.639	1054.039
30.5	1079.802	1060.759	1053.479	1051.798	1046.198
31.0	1070.841	1052.919	1045.078	1043.397	1038.357
31.5	1062.440	1044.518	1036.677	1034.996	1029.956
32.0	1053.479	1035.557	1028.276	1026.035	1021.555
32.5	1044.518	1027.156	1019.875	1017.635	1012.594
33.0	1035.557	1018.755	1011.474	1009.234	1003.633
33.5	1027.156	1009.794	1002.513	1000.273	995.232
34.0	1017.635	1000.833	994.112	991.312	986.271
34.5	1008.674	991.872	984.591	982.351	976.750
35.0	999.713	983.471	975.630	973.390	967.229
35.5	990.191	973.950	966.669	964.429	957.708
36.0	980.670	964.989	957.708	954.907	948.747
36.5	971.709	956.028	948.747	945.946	939.786
37.0	962.188	946.507	939.226	936.425	930.265
37.5	952.667	936.985	930.265	926.904	921.304
38.0	942.586	927.464	920.744	917.383	911.783
38.5	933.065	917.943	911.223	908.422	902.262
39.0	924.104	908.422	901.701	898.901	893.301
39.5	914.023	898.901	892.740	889.380	883.219
40.0	904.502	888.820	883.219	879.859	874.258
40.5	894.421	879.299	873.698	870.338	864.737
41.0	884.900	869.218	864.177	860.257	854.656
41.5	874.818	859.697	854.096	850.736	844.575
42.0	865.297	849.616	844.575	841.215	835.054
42.5	855.776	840.095	835.054	831.134	825.533
43.0	845.695	830.573	825.533	821.612	815.452
43.5	836.174	820.492	815.452	812.091	805.931
44.0	826.093	810.411	805.371	802.010	796.410
44.5	816.012	800.330	795.290	791.929	786.329
45.0	805.931	790.809	785.768	781.848	776.807
45.5	796.410	780.728	775.687	772.327	767.286
46.0	786.329	770.647	765.606	762.246	757.765
46.5	776.247	760.566	756.085	752.725	748.244
47.0	766.166	750.484	746.004	742.644	738.163
47.5	755.525	740.403	735.923	732.562	728.642
48.0	745.444	730.322	725.842	723.041	718.561
48.5	735.363	720.241	716.321	712.960	708.480
49.0	724.722	710.160	706.239	702.879	698.959
49.5	714.640	700.079	696.158	693.358	689.438
50.0	703.999	689.998	686.077	683.277	679.356
50.5	693.358	679.917	675.996	673.196	669.835
51.0	682.717	669.835	665.915	663.115	659.754
51.5	672.636	659.754	655.834	653.594	649.673
52.0	662.555	649.673	645.753	643.512	640.152
52.5	651.913	639.592	635.672	633.991	630.071
53.0	641.832	629.511	625.590	623.910	619.990
53.5	631.191	619.430	615.509	613.829	609.909
54.0	621.110	609.349	605.988	604.308	599.828
54.5	611.029	599.828	595.907	594.227	589.746

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55.0	600.948	590.306	586.386	584.706	580.225
55.5	591.427	580.225	576.305	574.625	570.704
56.0	580.785	570.144	566.224	565.104	560.623
56.5	570.704	560.623	556.423	555.190	550.766
57.0	561.183	550.542	546.509	545.165	540.965
57.5	551.326	540.797	536.652	535.420	531.052
58.0	541.469	531.164	526.739	525.619	521.251
58.5	531.556	521.475	516.994	515.986	511.842
59.0	521.811	511.730	507.193	506.241	502.265
59.5	512.346	501.872	497.224	496.552	492.799
60.0	502.657	492.071	487.367	486.807	483.166
60.5	493.079	482.494	477.846	477.006	473.421
61.0	483.670	472.917	468.381	467.429	463.900
61.5	473.589	463.452	458.972	457.908	454.491
62.0	463.676	453.707	449.227	448.442	444.858
62.5	453.539	444.690	440.042	439.425	435.729
63.0	443.794	436.737	432.985	432.705	429.680
63.5	433.937	428.056	425.088	424.472	421.335
64.0	428.000	419.599	416.911	415.679	412.094
64.5	418.759	410.582	407.670	406.550	403.189
65.0	408.398	400.949	398.541	397.477	394.228
65.5	397.813	391.204	389.020	388.516	385.211
66.0	387.620	381.683	379.723	379.499	375.970
66.5	377.538	371.938	370.258	370.258	367.121
67.0	367.569	362.249	360.905	361.073	358.216
67.5	357.768	352.728	351.496	351.832	349.031
68.0	347.855	343.207	342.086	342.535	339.622
68.5	337.886	333.518	332.621	333.238	330.381
69.0	327.581	323.772	323.100	323.436	320.804
69.5	317.556	314.195	313.411	313.803	311.395
70.0	307.643	304.506	303.946	304.114	301.986
70.5	297.898	294.761	294.369	294.537	292.521
71.0	287.928	285.072	284.960	285.184	283.000
71.5	277.959	275.383	275.607	275.775	273.871
72.0	268.270	265.638	266.086	266.310	264.686
72.5	258.581	256.061	256.789	257.013	255.669
73.0	249.004	246.708	247.716	247.996	246.820
73.5	239.707	237.467	238.643	239.147	237.859
74.0	230.522	228.226	229.682	230.074	229.234
74.5	221.337	219.153	220.777	221.169	220.553
75.0	212.096	210.136	211.984	212.376	211.872
75.5	202.967	201.119	203.247	203.751	203.191
76.0	193.726	192.438	194.622	195.182	194.734
76.5	184.989	183.869	186.053	186.669	186.277
77.0	176.476	175.244	177.652	178.212	177.596
77.5	167.683	166.843	169.251	169.699	169.083
78.0	159.114	158.442	160.850	161.522	160.906
78.5	150.601	150.265	152.561	153.345	152.841
79.0	142.424	142.088	144.440	145.392	145.000
79.5	134.247	134.079	136.431	137.439	137.103
80.0	126.182	126.238	128.422	129.823	129.375
80.5	118.061	118.565	120.806	122.150	121.814
81.0	110.276	111.061	113.245	114.645	114.421
81.5	102.772	103.612	105.852	107.252	107.084
82.0	95.771	96.331	98.627	100.083	99.915
82.5	88.770	89.274	91.514	92.970	92.858

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83.0	81.769	82.553	84.514	86.026	86.138
83.5	74.880	75.833	77.737	79.193	79.529
84.0	68.440	69.224	71.016	72.416	72.920
84.5	61.887	62.727	64.407	65.807	66.311
85.0	55.782	56.454	58.023	59.255	59.703
85.5	49.846	50.182	51.526	52.814	53.262
86.0	44.021	44.133	45.309	46.485	47.045
86.5	38.252	38.252	39.316	40.381	40.885
87.0	32.428	32.428	33.212	34.556	34.948
87.5	26.659	26.715	27.443	28.787	29.291
88.0	21.170	21.114	21.842	23.299	23.859
88.5	15.906	15.570	16.522	17.810	18.594
89.0	10.305	10.137	11.425	12.657	13.497
89.5	4.761	5.657	6.833	7.785	8.065
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.436	1.811	1.671	1.625	1.764
91.0	7.568	3.993	3.250	3.203	3.157
91.5	12.164	8.125	4.828	4.782	4.736
92.0	16.807	13.510	6.964	6.221	6.221
92.5	21.635	19.082	10.771	7.800	7.660
93.0	26.649	24.421	15.228	10.353	9.332
93.5	31.710	29.528	20.010	13.975	12.164
94.0	36.678	34.542	25.303	18.292	16.017
94.5	41.785	39.556	30.828	22.749	20.196
95.0	46.799	44.709	36.260	27.299	24.328
95.5	51.813	49.538	41.552	31.988	28.692
96.0	56.595	54.459	46.752	36.863	33.149
96.5	61.423	59.380	51.952	41.831	37.745
97.0	66.112	64.209	57.106	46.799	42.620
97.5	70.941	69.084	62.305	51.859	47.495
98.0	75.723	73.866	67.366	56.873	52.416
98.5	80.505	78.694	72.241	61.980	57.338
99.0	85.380	83.662	77.209	66.855	62.305
99.5	90.301	88.583	82.223	71.730	67.180
100.0	95.129	93.551	87.237	76.744	71.962
100.5	100.144	98.519	92.251	81.944	76.791
101.0	105.297	103.486	97.358	87.190	82.037
101.5	110.543	108.547	102.558	92.437	87.469
102.0	115.650	113.793	107.758	97.683	92.855
102.5	120.989	118.993	113.143	102.929	98.194
103.0	126.468	124.379	118.482	108.129	103.626
103.5	131.946	129.857	124.147	113.700	109.011
104.0	137.564	135.382	129.903	119.457	114.629
104.5	143.367	141.139	135.660	125.354	120.247
105.0	149.310	147.035	141.371	131.157	125.957
105.5	155.392	153.024	147.267	137.007	131.621
106.0	161.567	159.060	153.256	142.950	137.285
106.5	167.788	165.281	159.524	148.939	142.996
107.0	174.427	171.781	166.210	155.299	149.217
107.5	181.298	178.466	172.988	162.031	155.949
108.0	188.123	185.338	179.906	169.320	162.867
108.5	195.320	192.348	186.823	176.609	170.017
109.0	202.701	199.498	193.927	183.991	177.259
109.5	210.269	206.926	201.401	191.327	184.595
110.0	218.347	214.540	209.062	198.848	192.255
110.5	226.611	222.340	216.908	206.926	200.194

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111.0	234.968	230.511	225.033	215.330	208.180
111.5	243.511	238.915	233.297	223.872	216.397
112.0	252.379	247.550	241.515	232.415	224.244
112.5	261.293	256.418	249.825	240.911	232.554
113.0	270.625	265.564	258.600	249.686	241.236
113.5	280.235	275.128	267.885	259.157	250.568
114.0	289.985	284.878	277.728	269.232	260.921
114.5	300.059	294.952	287.756	279.724	271.925
115.0	310.273	305.306	298.156	290.310	283.067
115.5	320.952	315.752	308.834	300.849	294.070
116.0	331.723	326.616	319.884	311.945	305.259
116.5	343.098	337.758	331.305	323.319	317.191
117.0	354.936	349.133	342.819	335.576	329.494
117.5	363.665	358.001	353.358	346.858	341.983
118.0	374.807	368.354	364.175	358.511	353.079
118.5	387.761	380.704	375.225	369.329	363.061
119.0	400.435	392.868	387.761	381.586	374.157
119.5	413.249	405.821	401.039	394.028	386.600
120.0	426.481	419.238	414.363	407.631	399.739
120.5	439.620	432.841	428.106	422.070	413.760
121.0	453.409	446.723	441.941	436.463	428.663
121.5	467.058	460.466	455.730	451.041	443.241
122.0	481.451	474.487	470.308	465.665	457.866
122.5	495.379	488.415	484.701	480.058	471.701
123.0	509.771	503.272	499.557	495.843	487.022
123.5	524.628	518.128	515.343	511.628	502.807
124.0	539.485	533.449	530.664	527.414	519.057
124.5	554.342	548.306	545.985	542.735	534.842
125.0	569.198	563.163	560.841	558.056	550.163
125.5	584.519	578.484	576.162	573.377	565.020
126.0	599.376	593.340	591.948	588.698	579.877
126.5	614.233	608.197	607.733	604.947	595.662
127.0	629.554	623.518	623.518	621.197	612.376
127.5	644.875	638.375	638.375	636.982	629.089
128.0	659.731	653.232	653.696	652.767	644.875
128.5	674.588	667.624	668.553	668.553	660.196
129.0	689.445	682.017	683.409	683.874	675.981
129.5	704.302	696.873	698.730	699.659	692.231
130.0	719.158	711.730	714.051	715.444	709.409
130.5	734.015	726.122	729.837	730.765	725.658
131.0	748.872	740.515	744.693	745.622	740.515
131.5	762.800	754.443	759.550	759.550	754.907
132.0	777.192	768.371	773.943	774.407	768.836
132.5	791.121	782.764	788.335	788.799	782.764
133.0	805.049	797.156	802.263	803.192	796.228
133.5	818.977	811.084	816.656	817.584	810.620
134.0	832.905	824.548	830.120	831.512	824.548
134.5	845.441	838.012	843.119	844.048	838.012
135.0	857.976	851.012	855.655	856.583	850.083
135.5	870.047	864.476	868.190	868.654	862.154
136.0	882.118	877.011	879.797	881.190	874.690
136.5	894.653	889.082	891.404	893.725	887.689
137.0	906.260	901.153	903.475	905.332	899.760
137.5	917.867	912.296	914.617	916.010	910.439
138.0	929.010	923.438	925.295	926.224	920.653
138.5	940.152	934.117	935.974	936.438	930.402

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	950.830	944.795	946.652	946.652	940.152
139.5	961.509	955.473	956.866	956.402	949.438
140.0	971.723	965.223	967.080	966.616	959.652
140.5	981.472	974.508	976.365	975.901	968.473
141.0	991.222	984.258	985.651	984.722	977.294
141.5	1000.043	993.079	994.936	993.544	985.187
142.0	1009.329	1002.365	1003.758	1001.900	993.544
142.5	1018.150	1011.186	1012.579	1010.722	1001.436
143.0	1026.971	1019.543	1020.936	1019.079	1009.793
143.5	1035.328	1028.364	1029.293	1027.435	1017.686
144.0	1043.221	1036.721	1037.185	1034.864	1025.114
144.5	1051.113	1044.613	1045.078	1042.292	1032.542
145.0	1058.542	1052.506	1052.506	1049.256	1039.506
145.5	1066.434	1060.399	1059.934	1057.149	1046.935
146.0	1073.863	1067.827	1067.363	1064.113	1054.363
146.5	1081.291	1075.255	1074.327	1071.541	1061.792
147.0	1088.255	1082.684	1080.827	1078.970	1069.220
147.5	1095.219	1089.648	1087.791	1085.934	1076.184
148.0	1102.183	1096.612	1093.826	1092.434	1083.612
148.5	1109.147	1103.576	1099.862	1098.933	1091.041
149.0	1115.647	1110.540	1105.897	1105.433	1098.469
149.5	1122.147	1117.040	1111.469	1111.933	1105.433
150.0	1128.647	1123.540	1117.504	1117.969	1111.933
150.5	1135.147	1130.040	1123.076	1123.540	1118.433
151.0	1141.182	1136.075	1128.647	1129.111	1124.468
151.5	1147.682	1142.111	1134.682	1134.682	1130.040
152.0	1153.718	1148.146	1140.254	1139.789	1135.611
152.5	1159.753	1153.718	1145.825	1145.361	1140.718
153.0	1165.789	1159.289	1151.396	1150.932	1145.361
153.5	1171.360	1164.860	1156.967	1156.503	1149.539
154.0	1176.931	1170.431	1163.003	1162.074	1154.182
154.5	1182.967	1175.538	1168.574	1167.181	1158.825
155.0	1188.538	1180.645	1174.146	1172.753	1163.932
155.5	1193.645	1185.288	1179.717	1178.324	1169.039
156.0	1198.752	1190.395	1185.752	1183.431	1174.146
156.5	1203.859	1195.502	1191.324	1189.002	1179.253
157.0	1208.966	1200.609	1196.895	1194.574	1184.360
157.5	1213.609	1205.252	1202.002	1199.681	1189.467
158.0	1218.251	1209.895	1207.109	1204.788	1194.574
158.5	1223.358	1215.002	1212.216	1209.895	1200.145
159.0	1227.537	1219.644	1216.859	1215.002	1205.252
159.5	1232.180	1224.287	1221.501	1220.109	1210.359
160.0	1236.358	1228.465	1226.144	1224.751	1215.466
160.5	1240.537	1232.644	1230.323	1229.394	1220.573
161.0	1244.715	1236.822	1234.501	1234.037	1225.680
161.5	1248.893	1241.465	1238.215	1238.679	1230.787
162.0	1253.536	1245.644	1241.929	1243.322	1235.430
162.5	1257.715	1249.822	1245.644	1247.501	1239.608
163.0	1261.893	1254.000	1249.358	1251.679	1243.786
163.5	1266.072	1257.715	1253.072	1255.858	1247.501
164.0	1270.250	1261.429	1256.322	1259.572	1251.215
164.5	1273.500	1265.143	1259.572	1263.286	1254.929
165.0	1277.214	1268.857	1262.822	1267.000	1258.179
165.5	1280.928	1272.107	1266.072	1270.250	1261.429
166.0	1284.642	1275.357	1269.321	1273.500	1264.214
166.5	1288.357	1278.607	1272.571	1276.286	1267.464

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1291.607	1281.393	1275.357	1279.071	1270.250
167.5	1294.856	1284.178	1278.607	1281.857	1273.500
168.0	1298.106	1286.964	1281.393	1284.642	1276.286
168.5	1301.356	1289.749	1284.178	1287.428	1279.535
169.0	1304.142	1292.071	1286.964	1289.749	1282.321
169.5	1306.463	1294.392	1289.285	1292.071	1285.107
170.0	1308.785	1296.714	1291.607	1294.392	1288.357
170.5	1311.106	1299.035	1293.464	1296.714	1290.678
171.0	1313.427	1300.892	1295.321	1299.035	1292.999
171.5	1315.284	1302.749	1297.178	1301.356	1295.321
172.0	1317.142	1304.606	1298.571	1303.213	1297.178
172.5	1318.999	1306.463	1299.963	1304.606	1298.571
173.0	1320.856	1308.320	1301.356	1306.463	1299.499
173.5	1322.249	1309.713	1302.749	1307.392	1300.428
174.0	1323.641	1311.106	1304.142	1308.320	1300.892
174.5	1324.570	1312.035	1305.070	1309.249	1301.356
175.0	1325.498	1313.427	1305.999	1309.713	1301.356
175.5	1326.427	1314.356	1307.392	1310.177	1301.821
176.0	1327.356	1315.284	1308.320	1310.177	1301.821
176.5	1327.820	1316.213	1308.785	1310.642	1301.821
177.0	1328.284	1317.142	1309.713	1310.642	1301.356
177.5	1329.213	1318.070	1310.642	1310.642	1301.356
178.0	1329.677	1318.070	1311.106	1310.642	1301.821
178.5	1329.677	1318.534	1311.570	1310.642	1301.821
179.0	1330.141	1318.999	1311.570	1310.642	1301.821
179.5	1330.605	1318.999	1312.035	1310.642	1301.821
180.0	1314.356	1314.356	1314.356	1314.356	1314.356



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	482.55	N.A.	7.10
0-30	1008.84	N.A.	14.90
0-40	1620.71	N.A.	24.00
0-60	2753.95	N.A.	40.70
0-80	3372.53	N.A.	49.90
0-90	3437.89	N.A.	50.80
10-90	3311.93	N.A.	49.00
20-40	1138.17	N.A.	16.80
20-50	1745.57	N.A.	25.80
40-70	1527.08	N.A.	22.60
60-80	618.57	N.A.	9.10
70-80	224.73	N.A.	3.30
80-90	65.36	N.A.	1.00
90-110	190.21	N.A.	2.80
90-120	488.29	N.A.	7.20
90-130	989.19	N.A.	14.60
90-150	2300.78	N.A.	34.00
90-180	3325.23	N.A.	49.20
110-180	3135.02	N.A.	46.40
0-180	6763.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	125.95
10-20	356.59
20-30	526.29
30-40	611.87
40-50	607.41
50-60	525.83
60-70	393.84
70-80	224.73
80-90	65.36
90-100	41.03
100-110	149.18
110-120	298.08
120-130	500.90
130-140	654.97
140-150	656.61
150-160	542.39
160-170	357.42
170-180	124.64

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	45	40	45	40	35	38	34	30	32	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-930U-L8-930D-F-F-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	15.5	16.4	16.5	17.4	18.6	15.4	16.3	16.4	17.3	18.5
	3H	17.3	18.1	18.3	19.1	20.3	17.2	18.0	18.2	19.0	20.2
	4H	17.9	18.7	18.9	19.6	20.9	17.8	18.6	18.8	19.6	20.8
	6H	18.3	19.0	19.3	20.0	21.3	18.3	19.0	19.3	20.0	21.3
	8H	18.5	19.1	19.5	20.1	21.4	18.4	19.1	19.4	20.1	21.4
	12H	18.6	19.2	19.6	20.2	21.5	18.5	19.2	19.5	20.2	21.5

### UGR Viewed Endwise

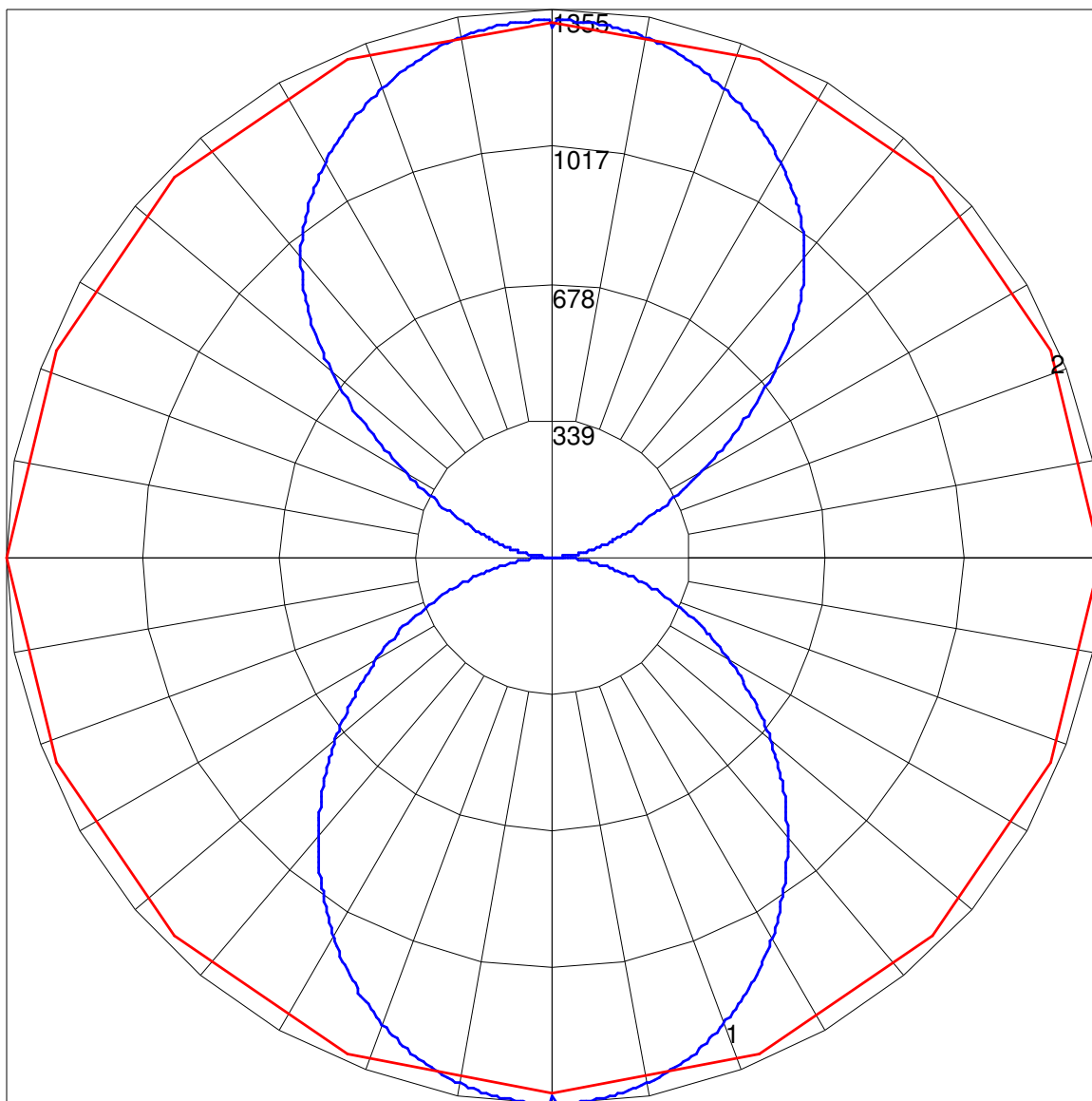
4H	2H	16.1	16.8	17.0	17.8	19.1	16.0	16.7	17.0	17.7	19.0
	3H	18.0	18.7	19.0	19.7	21.0	18.0	18.6	19.0	19.6	20.9
	4H	18.8	19.3	19.8	20.3	21.7	18.7	19.3	19.7	20.3	21.6
	6H	19.3	19.8	20.3	20.8	22.2	19.3	19.8	20.3	20.8	22.1
	8H	19.5	20.0	20.5	21.0	22.3	19.5	20.0	20.5	21.0	22.3
	12H	19.6	20.0	20.6	21.1	22.4	19.6	20.1	20.7	21.1	22.4

8H	4H	19.0	19.5	20.0	20.5	21.8	19.0	19.4	20.0	20.4	21.8
	6H	19.7	20.1	20.7	21.1	22.5	19.7	20.1	20.7	21.1	22.5
	8H	20.0	20.3	21.0	21.3	22.7	20.0	20.3	21.0	21.4	22.7
	12H	20.2	20.5	21.2	21.5	22.9	20.2	20.5	21.2	21.5	22.9

12H	4H	19.0	19.4	20.0	20.5	21.8	19.0	19.4	20.0	20.4	21.8
	6H	19.8	20.1	20.8	21.1	22.5	19.7	20.1	20.8	21.1	22.5
	8H	20.0	20.3	21.1	21.4	22.8	20.1	20.4	21.1	21.4	22.8

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1355.353 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)