

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-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-L12-840U-L8-840D-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	8495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	11558	11269	11141
55	10625	10368	10259
65	9800	9563	9460
75	8310	8306	8302
85	6491	6751	6947

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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	1677.129	1677.129	1677.129	1677.129	1677.129
0.5	1702.455	1678.536	1670.094	1673.612	1667.984
1.0	1702.455	1677.833	1670.094	1673.612	1667.984
1.5	1701.752	1677.129	1669.391	1673.612	1667.280
2.0	1701.048	1676.426	1668.687	1672.908	1667.280
2.5	1700.345	1675.722	1667.280	1672.205	1666.577
3.0	1698.938	1674.315	1666.577	1671.501	1665.170
3.5	1697.531	1672.908	1665.170	1670.094	1663.763
4.0	1696.124	1671.501	1663.763	1668.687	1662.356
4.5	1694.717	1669.391	1662.356	1667.280	1660.245
5.0	1693.310	1667.984	1660.245	1665.170	1658.135
5.5	1691.199	1665.873	1658.135	1663.059	1656.024
6.0	1689.089	1663.059	1656.024	1660.949	1653.210
6.5	1686.275	1660.949	1653.210	1658.135	1651.100
7.0	1684.164	1658.135	1651.100	1655.321	1648.286
7.5	1682.054	1655.321	1648.286	1652.507	1646.176
8.0	1678.536	1652.507	1644.769	1649.693	1643.362
8.5	1675.722	1648.989	1641.251	1646.176	1639.844
9.0	1672.205	1646.176	1638.437	1642.658	1636.327
9.5	1668.687	1642.658	1634.216	1638.437	1632.809
10.0	1665.170	1639.141	1630.699	1634.920	1628.588
10.5	1660.949	1634.920	1626.478	1630.699	1625.071
11.0	1657.431	1630.699	1622.257	1626.478	1620.146
11.5	1652.507	1626.478	1618.036	1622.257	1615.925
12.0	1648.286	1622.257	1613.815	1617.332	1611.001
12.5	1644.065	1617.332	1608.890	1612.408	1606.076
13.0	1639.141	1613.111	1603.966	1607.483	1601.152
13.5	1634.216	1607.483	1599.041	1601.855	1596.227
14.0	1629.292	1602.559	1593.413	1596.931	1591.303
14.5	1624.367	1597.634	1587.786	1591.303	1585.675
15.0	1619.443	1592.006	1582.158	1585.675	1580.047
15.5	1613.111	1587.082	1576.530	1579.344	1573.716
16.0	1606.076	1581.454	1570.198	1573.716	1568.088
16.5	1599.041	1575.123	1563.867	1567.384	1561.756
17.0	1592.710	1568.791	1557.535	1561.053	1555.425
17.5	1585.675	1561.756	1550.500	1554.018	1548.390
18.0	1578.640	1554.721	1543.465	1546.983	1541.355
18.5	1571.605	1547.686	1536.430	1539.244	1534.320
19.0	1564.570	1540.651	1530.099	1532.210	1525.878
19.5	1556.832	1533.616	1523.064	1523.768	1517.436
20.0	1549.797	1525.878	1516.733	1516.029	1508.994
20.5	1542.058	1518.843	1509.698	1507.587	1500.552
21.0	1534.320	1511.105	1501.959	1499.145	1491.407
21.5	1525.878	1503.366	1493.517	1490.703	1482.261
22.0	1518.140	1494.924	1484.372	1481.558	1473.820
22.5	1509.698	1486.482	1475.930	1472.413	1464.674
23.0	1501.256	1478.040	1467.488	1462.564	1455.529
23.5	1492.814	1469.599	1458.343	1453.418	1447.087
24.0	1483.668	1461.157	1449.901	1444.273	1437.941
24.5	1474.523	1452.011	1440.755	1435.127	1428.796
25.0	1466.081	1442.866	1431.610	1425.982	1419.650
25.5	1456.936	1433.720	1421.761	1416.837	1409.802
26.0	1447.087	1423.871	1412.616	1407.691	1400.656
26.5	1437.941	1414.726	1402.767	1398.546	1391.511

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27.0	1428.092	1404.877	1392.918	1389.400	1381.662
27.5	1418.244	1395.028	1383.772	1380.255	1372.516
28.0	1408.395	1384.476	1373.220	1370.406	1362.668
28.5	1397.842	1373.923	1363.371	1361.261	1352.819
29.0	1387.290	1364.074	1353.522	1351.412	1342.970
29.5	1377.441	1353.522	1343.673	1340.859	1333.824
30.0	1366.888	1342.970	1333.824	1331.010	1323.975
30.5	1356.336	1332.417	1323.272	1321.161	1314.126
31.0	1345.080	1322.568	1312.719	1310.609	1304.278
31.5	1334.528	1312.016	1302.167	1300.057	1293.725
32.0	1323.272	1300.760	1291.615	1288.801	1283.173
32.5	1312.016	1290.208	1281.062	1278.248	1271.917
33.0	1300.760	1279.655	1270.510	1267.696	1260.661
33.5	1290.208	1268.399	1259.254	1256.440	1250.108
34.0	1278.248	1257.143	1248.702	1245.184	1238.853
34.5	1266.992	1245.888	1236.742	1233.928	1226.893
35.0	1255.736	1235.335	1225.486	1222.672	1214.934
35.5	1243.777	1223.376	1214.230	1211.416	1202.974
36.0	1231.818	1212.120	1202.974	1199.457	1191.719
36.5	1220.562	1200.864	1191.719	1188.201	1180.463
37.0	1208.602	1188.905	1179.759	1176.242	1168.503
37.5	1196.643	1176.945	1168.503	1164.282	1157.247
38.0	1183.980	1164.986	1156.544	1152.323	1145.288
38.5	1172.021	1153.026	1144.584	1141.067	1133.329
39.0	1160.765	1141.067	1132.625	1129.108	1122.073
39.5	1148.102	1129.108	1121.369	1117.148	1109.410
40.0	1136.142	1116.445	1109.410	1105.189	1098.154
40.5	1123.480	1104.485	1097.450	1093.229	1086.194
41.0	1111.520	1091.822	1085.491	1080.566	1073.532
41.5	1098.857	1079.863	1072.828	1068.607	1060.869
42.0	1086.898	1067.200	1060.869	1056.648	1048.909
42.5	1074.939	1055.241	1048.909	1043.985	1036.950
43.0	1062.276	1043.281	1036.950	1032.025	1024.287
43.5	1050.316	1030.618	1024.287	1020.066	1012.328
44.0	1037.653	1017.956	1011.624	1007.403	1000.368
44.5	1024.990	1005.293	998.961	994.740	987.705
45.0	1012.328	993.333	987.002	982.077	975.746
45.5	1000.368	980.670	974.339	970.118	963.787
46.0	987.705	968.007	961.676	957.455	951.827
46.5	975.042	955.345	949.717	945.496	939.868
47.0	962.380	942.682	937.054	932.833	927.205
47.5	949.013	930.019	924.391	920.170	915.245
48.0	936.350	917.356	911.728	908.211	902.583
48.5	923.687	904.693	899.769	895.548	889.920
49.0	910.321	892.030	887.106	882.885	877.960
49.5	897.658	879.367	874.443	870.925	866.001
50.0	884.292	866.704	861.780	858.262	853.338
50.5	870.925	854.041	849.117	845.600	841.379
51.0	857.559	841.379	836.454	832.937	828.716
51.5	844.896	828.716	823.791	820.977	816.053
52.0	832.233	816.053	811.128	808.314	804.093
52.5	818.867	803.390	798.465	796.355	791.431
53.0	806.204	790.727	785.803	783.692	778.768
53.5	792.838	778.064	773.140	771.029	766.105
54.0	780.175	765.401	761.180	759.070	753.442
54.5	767.512	753.442	748.517	746.407	740.779

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55.0	754.849	741.482	736.558	734.448	728.820
55.5	742.889	728.820	723.895	721.785	716.860
56.0	729.523	716.157	711.232	709.825	704.197
56.5	716.860	704.197	698.921	697.373	691.816
57.0	704.901	691.534	686.469	684.781	679.505
57.5	692.519	679.294	674.088	672.540	667.053
58.0	680.138	667.194	661.636	660.229	654.742
58.5	667.686	655.023	649.395	648.129	642.923
59.0	655.445	642.782	637.084	635.888	630.893
59.5	643.556	630.401	624.562	623.718	619.004
60.0	631.386	618.090	612.180	611.477	606.904
60.5	619.356	606.060	600.221	599.166	594.663
61.0	607.537	594.030	588.332	587.136	582.704
61.5	594.874	582.141	576.513	575.177	570.885
62.0	582.423	569.900	564.272	563.287	558.785
62.5	569.689	558.574	552.735	551.961	547.318
63.0	557.448	548.584	543.871	543.519	539.720
63.5	545.067	537.680	533.952	533.178	529.238
64.0	537.610	527.058	523.681	522.133	517.631
64.5	526.002	515.731	512.073	510.666	506.445
65.0	512.988	503.631	500.606	499.270	495.189
65.5	499.692	491.390	488.647	488.014	483.863
66.0	486.888	479.431	476.969	476.687	472.255
66.5	474.225	467.190	465.080	465.080	461.140
67.0	461.703	455.020	453.331	453.542	449.955
67.5	449.392	443.060	441.513	441.935	438.417
68.0	436.940	431.101	429.694	430.257	426.599
68.5	424.418	418.931	417.805	418.579	414.991
69.0	411.474	406.690	405.846	406.268	402.961
69.5	398.881	394.660	393.675	394.168	391.143
70.0	386.429	382.490	381.786	381.997	379.324
70.5	374.188	370.249	369.756	369.967	367.435
71.0	361.666	358.078	357.938	358.219	355.475
71.5	349.144	345.908	346.189	346.400	344.008
72.0	336.974	333.667	334.230	334.511	332.471
72.5	324.803	321.637	322.552	322.833	321.145
73.0	312.773	309.889	311.155	311.507	310.030
73.5	301.095	298.281	299.759	300.392	298.774
74.0	289.558	286.674	288.503	288.995	287.940
74.5	278.021	275.277	277.317	277.810	277.036
75.0	266.413	263.951	266.272	266.765	266.132
75.5	254.946	252.625	255.298	255.931	255.228
76.0	243.339	241.720	244.464	245.168	244.605
76.5	232.364	230.957	233.701	234.474	233.982
77.0	221.671	220.123	223.148	223.852	223.078
77.5	210.626	209.571	212.596	213.159	212.385
78.0	199.863	199.018	202.043	202.888	202.114
78.5	189.170	188.747	191.632	192.617	191.983
79.0	178.898	178.476	181.431	182.627	182.135
79.5	168.627	168.416	171.371	172.637	172.215
80.0	158.497	158.567	161.311	163.070	162.507
80.5	148.296	148.930	151.744	153.432	153.010
81.0	138.518	139.503	142.246	144.005	143.724
81.5	129.091	130.146	132.960	134.719	134.508
82.0	120.297	121.001	123.885	125.714	125.503
82.5	111.504	112.137	114.951	116.780	116.639

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83.0	102.710	103.695	106.157	108.057	108.197
83.5	94.057	95.253	97.645	99.474	99.896
84.0	85.967	86.952	89.203	90.962	91.595
84.5	77.736	78.791	80.902	82.661	83.294
85.0	70.068	70.912	72.882	74.430	74.992
85.5	62.611	63.033	64.721	66.339	66.902
86.0	55.295	55.435	56.913	58.390	59.093
86.5	48.049	48.049	49.385	50.722	51.355
87.0	40.732	40.732	41.717	43.406	43.898
87.5	33.486	33.557	34.471	36.160	36.793
88.0	26.592	26.522	27.436	29.265	29.969
88.5	19.979	19.557	20.753	22.371	23.356
89.0	12.944	12.733	14.351	15.899	16.954
89.5	5.980	7.105	8.583	9.779	10.130
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.315	2.274	2.099	2.041	2.216
91.0	9.506	5.015	4.082	4.024	3.966
91.5	15.279	10.206	6.065	6.007	5.948
92.0	21.111	16.970	8.748	7.815	7.815
92.5	27.176	23.968	13.530	9.797	9.622
93.0	33.474	30.675	19.128	13.005	11.722
93.5	39.831	37.090	25.135	17.553	15.279
94.0	46.071	43.388	31.783	22.977	20.119
94.5	52.485	49.686	38.723	28.575	25.368
95.0	58.784	56.159	45.546	34.290	30.558
95.5	65.082	62.224	52.194	40.181	36.040
96.0	71.089	68.406	58.725	46.304	41.638
96.5	77.154	74.588	65.257	52.544	47.412
97.0	83.044	80.653	71.730	58.784	53.535
97.5	89.109	86.776	78.262	65.140	59.658
98.0	95.115	92.783	84.618	71.439	65.840
98.5	101.122	98.848	90.742	77.853	72.022
99.0	107.245	105.088	96.981	83.977	78.262
99.5	113.427	111.269	103.280	90.100	84.385
100.0	119.492	117.509	109.578	96.398	90.392
100.5	125.790	123.749	115.876	102.930	96.457
101.0	132.263	129.989	122.291	109.520	103.046
101.5	138.853	136.346	128.823	116.109	109.870
102.0	145.268	142.935	135.354	122.699	116.634
102.5	151.975	149.467	142.119	129.289	123.341
103.0	158.856	156.232	148.825	135.821	130.164
103.5	165.737	163.113	155.940	142.819	136.929
104.0	172.794	170.053	163.171	150.050	143.985
104.5	180.083	177.284	170.403	157.456	151.041
105.0	187.548	184.690	177.576	164.746	158.214
105.5	195.188	192.213	184.982	172.094	165.329
106.0	202.944	199.795	192.505	179.559	172.444
106.5	210.758	207.609	200.378	187.081	179.617
107.0	219.098	215.774	208.775	195.071	187.431
107.5	227.729	224.171	217.290	203.527	195.887
108.0	236.301	232.802	225.979	212.683	204.577
108.5	245.340	241.608	234.668	221.839	213.557
109.0	254.613	250.589	243.591	231.111	222.655
109.5	264.118	259.920	252.980	240.325	231.869
110.0	274.266	269.484	262.602	249.772	241.491
110.5	284.646	279.281	272.458	259.920	251.464

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111.0	295.143	289.545	282.663	270.475	261.494
111.5	305.874	300.100	293.044	281.205	271.816
112.0	317.012	310.947	303.366	291.936	281.672
112.5	328.209	322.086	313.805	302.608	292.111
113.0	339.931	333.574	324.827	313.630	303.016
113.5	352.002	345.588	336.490	325.526	314.738
114.0	364.249	357.834	348.853	338.181	327.743
114.5	376.904	370.489	361.450	351.361	341.564
115.0	389.734	383.494	374.513	364.657	355.560
115.5	403.147	396.615	387.926	377.895	369.381
116.0	416.676	410.261	401.805	391.833	383.435
116.5	430.964	424.257	416.151	406.121	398.423
117.0	445.835	438.545	430.614	421.517	413.877
117.5	456.798	449.684	443.852	435.688	429.564
118.0	470.795	462.688	457.440	450.325	443.502
118.5	487.065	478.201	471.319	463.913	456.040
119.0	502.986	493.480	487.065	479.309	469.978
119.5	519.081	509.750	503.744	494.938	485.607
120.0	535.702	526.604	520.481	512.025	502.111
120.5	552.205	543.691	537.743	530.161	519.723
121.0	569.526	561.128	555.121	548.240	538.442
121.5	586.671	578.390	572.441	566.551	556.754
122.0	604.749	596.002	590.753	584.921	575.124
122.5	622.244	613.497	608.831	603.000	592.502
123.0	640.323	632.158	627.493	622.827	611.747
123.5	658.984	650.820	647.321	642.655	631.575
124.0	677.646	670.064	666.565	662.483	651.986
124.5	696.307	688.726	685.810	681.728	671.814
125.0	714.969	707.387	704.471	700.972	691.059
125.5	734.213	726.632	723.716	720.217	709.720
126.0	752.875	745.293	743.544	739.462	728.382
126.5	771.536	763.955	763.372	759.873	748.209
127.0	790.781	783.200	783.200	780.284	769.204
127.5	810.026	801.861	801.861	800.112	790.198
128.0	828.687	820.523	821.106	819.939	810.026
128.5	847.349	838.601	839.767	839.767	829.270
129.0	866.010	856.679	858.429	859.012	849.098
129.5	884.672	875.341	877.673	878.840	869.509
130.0	903.333	894.002	896.918	898.668	891.086
130.5	921.995	912.081	916.746	917.912	911.497
131.0	940.656	930.159	935.407	936.574	930.159
131.5	958.151	947.654	954.069	954.069	948.237
132.0	976.230	965.149	972.147	972.730	965.732
132.5	993.725	983.228	990.226	990.809	983.228
133.0	1011.220	1001.306	1007.721	1008.887	1000.140
133.5	1028.715	1018.801	1025.799	1026.965	1018.218
134.0	1046.210	1035.713	1042.711	1044.461	1035.713
134.5	1061.956	1052.625	1059.040	1060.206	1052.625
135.0	1077.701	1068.954	1074.786	1075.952	1067.787
135.5	1092.864	1085.866	1090.531	1091.114	1082.950
136.0	1108.026	1101.611	1105.110	1106.860	1098.696
136.5	1123.772	1116.774	1119.690	1122.606	1115.024
137.0	1138.351	1131.936	1134.852	1137.185	1130.187
137.5	1152.931	1145.932	1148.848	1150.598	1143.600
138.0	1166.927	1159.929	1162.261	1163.428	1156.430
138.5	1180.923	1173.342	1175.674	1176.257	1168.676

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1194.336	1186.755	1189.087	1189.087	1180.923
139.5	1207.749	1200.167	1201.917	1201.334	1192.586
140.0	1220.578	1212.414	1214.747	1214.164	1205.416
140.5	1232.825	1224.078	1226.410	1225.827	1216.496
141.0	1245.072	1236.324	1238.074	1236.907	1227.577
141.5	1256.152	1247.404	1249.737	1247.988	1237.490
142.0	1267.815	1259.068	1260.817	1258.485	1247.988
142.5	1278.896	1270.148	1271.898	1269.565	1257.901
143.0	1289.976	1280.645	1282.395	1280.062	1268.399
143.5	1300.473	1291.725	1292.892	1290.559	1278.312
144.0	1310.387	1302.223	1302.806	1299.890	1287.643
144.5	1320.301	1312.136	1312.720	1309.221	1296.974
145.0	1329.632	1322.050	1322.050	1317.968	1305.722
145.5	1339.546	1331.964	1331.381	1327.882	1315.052
146.0	1348.876	1341.295	1340.712	1336.630	1324.383
146.5	1358.207	1350.626	1349.459	1345.960	1333.714
147.0	1366.955	1359.957	1357.624	1355.291	1343.045
147.5	1375.702	1368.704	1366.371	1364.039	1351.792
148.0	1384.450	1377.452	1373.953	1372.203	1361.123
148.5	1393.197	1386.199	1381.534	1380.368	1370.454
149.0	1401.362	1394.947	1389.115	1388.532	1379.784
149.5	1409.526	1403.111	1396.113	1396.696	1388.532
150.0	1417.691	1411.276	1403.694	1404.278	1396.696
150.5	1425.855	1419.440	1410.692	1411.276	1404.861
151.0	1433.436	1427.021	1417.691	1418.274	1412.442
151.5	1441.601	1434.603	1425.272	1425.272	1419.440
152.0	1449.182	1442.184	1432.270	1431.687	1426.438
152.5	1456.763	1449.182	1439.268	1438.685	1432.853
153.0	1464.344	1456.180	1446.266	1445.683	1438.685
153.5	1471.342	1463.178	1453.264	1452.681	1443.933
154.0	1478.340	1470.176	1460.845	1459.679	1449.765
154.5	1485.922	1476.591	1467.843	1466.094	1455.597
155.0	1492.920	1483.006	1474.841	1473.092	1462.012
155.5	1499.335	1488.837	1481.839	1480.090	1468.426
156.0	1505.749	1495.252	1489.421	1486.505	1474.841
156.5	1512.164	1501.667	1496.419	1493.503	1481.256
157.0	1518.579	1508.082	1503.417	1500.501	1487.671
157.5	1524.411	1513.914	1509.832	1506.916	1494.086
158.0	1530.243	1519.746	1516.247	1513.331	1500.501
158.5	1536.658	1526.160	1522.661	1519.746	1507.499
159.0	1541.906	1531.992	1528.493	1526.160	1513.914
159.5	1547.738	1537.824	1534.325	1532.575	1520.329
160.0	1552.986	1543.072	1540.157	1538.407	1526.744
160.5	1558.235	1548.321	1545.405	1544.239	1533.159
161.0	1563.483	1553.570	1550.654	1550.071	1539.573
161.5	1568.732	1559.401	1555.319	1555.902	1545.988
162.0	1574.564	1564.650	1559.984	1561.734	1551.820
162.5	1579.812	1569.898	1564.650	1566.982	1557.069
163.0	1585.061	1575.147	1569.315	1572.231	1562.317
163.5	1590.309	1579.812	1573.981	1577.480	1566.982
164.0	1595.558	1584.478	1578.063	1582.145	1571.648
164.5	1599.640	1589.143	1582.145	1586.810	1576.313
165.0	1604.305	1593.808	1586.227	1591.476	1580.395
165.5	1608.971	1597.891	1590.309	1595.558	1584.478
166.0	1613.636	1601.973	1594.392	1599.640	1587.977
166.5	1618.302	1606.055	1598.474	1603.139	1592.059

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1622.384	1609.554	1601.973	1606.638	1595.558
167.5	1626.466	1613.053	1606.055	1610.137	1599.640
168.0	1630.548	1616.552	1609.554	1613.636	1603.139
168.5	1634.630	1620.051	1613.053	1617.135	1607.221
169.0	1638.129	1622.967	1616.552	1620.051	1610.720
169.5	1641.045	1625.883	1619.468	1622.967	1614.219
170.0	1643.961	1628.799	1622.384	1625.883	1618.302
170.5	1646.877	1631.715	1624.716	1628.799	1621.217
171.0	1649.793	1634.047	1627.049	1631.715	1624.133
171.5	1652.126	1636.380	1629.382	1634.630	1627.049
172.0	1654.458	1638.713	1631.131	1636.963	1629.382
172.5	1656.791	1641.045	1632.881	1638.713	1631.131
173.0	1659.124	1643.378	1634.630	1641.045	1632.298
173.5	1660.873	1645.128	1636.380	1642.212	1633.464
174.0	1662.623	1646.877	1638.129	1643.378	1634.047
174.5	1663.789	1648.043	1639.296	1644.544	1634.630
175.0	1664.955	1649.793	1640.462	1645.128	1634.630
175.5	1666.122	1650.959	1642.212	1645.711	1635.214
176.0	1667.288	1652.126	1643.378	1645.711	1635.214
176.5	1667.871	1653.292	1643.961	1646.294	1635.214
177.0	1668.454	1654.458	1645.128	1646.294	1634.630
177.5	1669.621	1655.625	1646.294	1646.294	1634.630
178.0	1670.204	1655.625	1646.877	1646.294	1635.214
178.5	1670.204	1656.208	1647.460	1646.294	1635.214
179.0	1670.787	1656.791	1647.460	1646.294	1635.214
179.5	1671.370	1656.791	1648.043	1646.294	1635.214
180.0	1650.959	1650.959	1650.959	1650.959	1650.959



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	606.12	N.A.	7.10
0-30	1267.2	N.A.	14.90
0-40	2035.77	N.A.	24.00
0-60	3459.24	N.A.	40.70
0-80	4236.22	N.A.	49.90
0-90	4318.32	N.A.	50.80
10-90	4160.11	N.A.	49.00
20-40	1429.65	N.A.	16.80
20-50	2192.61	N.A.	25.80
40-70	1918.16	N.A.	22.60
60-80	776.99	N.A.	9.10
70-80	282.29	N.A.	3.30
80-90	82.10	N.A.	1.00
90-110	238.92	N.A.	2.80
90-120	613.34	N.A.	7.20
90-130	1242.52	N.A.	14.60
90-150	2890.00	N.A.	34.00
90-180	4176.81	N.A.	49.20
110-180	3937.89	N.A.	46.40
0-180	8495.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.21
10-20	447.91
20-30	661.07
30-40	768.57
40-50	762.96
50-60	660.50
60-70	494.70
70-80	282.29
80-90	82.10
90-100	51.53
100-110	187.39
110-120	374.41
120-130	629.18
130-140	822.71
140-150	824.77
150-160	681.30
160-170	448.95
170-180	156.56

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-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-L12-840U-L8-840D-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	16.3	17.2	17.3	18.2	19.4	UGR Viewed Endwise			
	3H	18.1	18.9	19.1	19.9	21.1	16.2	17.1	17.2	18.1
	4H	18.7	19.5	19.7	20.4	21.7	18.0	18.8	19.0	19.8
	6H	19.1	19.8	20.1	20.8	22.1	18.6	19.4	19.6	20.4
	8H	19.3	19.9	20.3	20.9	22.2	19.1	19.8	20.1	20.8
	12H	19.4	20.0	20.4	21.0	22.3	19.2	19.9	20.2	20.9

4H	2H	16.9	17.6	17.8	18.6	19.9	19.3	20.0	20.3	21.0
	3H	18.8	19.5	19.8	20.5	21.8	16.8	17.5	17.8	18.5
	4H	19.6	20.1	20.6	21.1	22.5	18.8	19.4	19.8	20.4
	6H	20.1	20.6	21.1	21.6	23.0	19.5	20.1	20.5	21.1
	8H	20.3	20.8	21.3	21.8	23.1	20.1	20.6	21.1	21.6
	12H	20.4	20.8	21.4	21.9	23.2	20.3	20.8	21.3	21.8

8H	4H	19.8	20.3	20.8	21.3	22.6	20.4	20.9	21.5	21.9
	6H	20.5	20.9	21.5	21.9	23.3	19.8	20.2	20.8	21.2
	8H	20.8	21.1	21.8	22.1	23.5	20.5	20.9	21.5	21.9
	12H	21.0	21.3	22.0	22.3	23.7	20.8	21.1	21.8	22.2

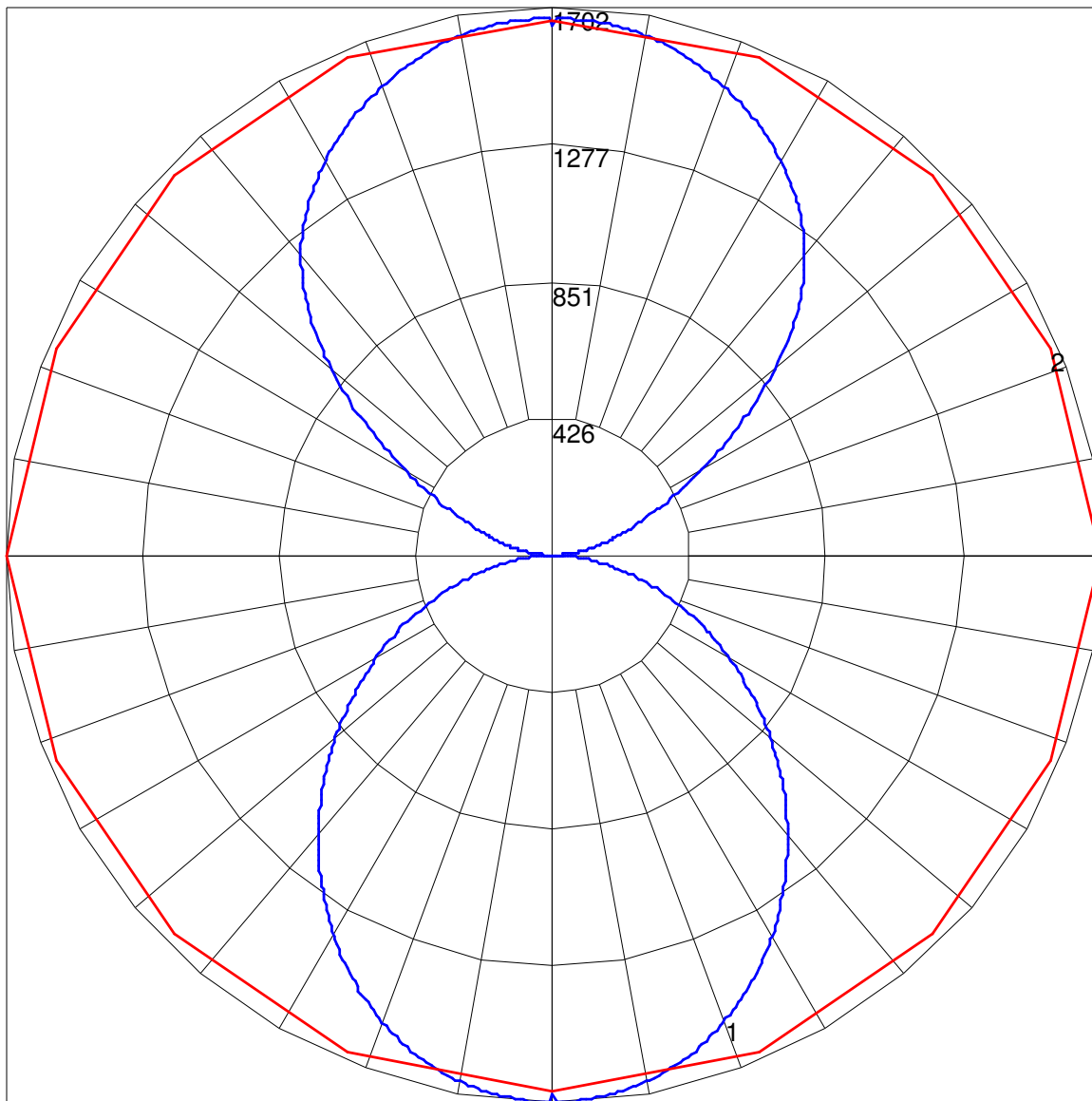
12H	4H	19.8	20.2	20.8	21.3	22.6	21.0	21.3	22.0	22.3
	6H	20.6	20.9	21.6	21.9	23.3	19.8	20.2	20.8	21.2
	8H	20.8	21.1	21.9	22.2	23.6	20.5	20.9	21.6	21.9

Maximum UGR = 23.7

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-840U-L8-840D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1702.455 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.)