

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-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-L15-940U-L8-940D-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	8141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	78.9
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	10940	10666	10545
55	10057	9813	9710
65	9276	9052	8954
75	7866	7862	7857
85	6143	6390	6575

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1587.402	1587.402	1587.402	1587.402	1587.402
<b>0.5</b>	1611.373	1588.733	1580.743	1584.072	1578.746
<b>1.0</b>	1611.373	1588.068	1580.743	1584.072	1578.746
<b>1.5</b>	1610.707	1587.402	1580.077	1584.072	1578.080
<b>2.0</b>	1610.041	1586.736	1579.411	1583.407	1578.080
<b>2.5</b>	1609.375	1586.070	1578.080	1582.741	1577.414
<b>3.0</b>	1608.043	1584.738	1577.414	1582.075	1576.082
<b>3.5</b>	1606.712	1583.407	1576.082	1580.743	1574.750
<b>4.0</b>	1605.380	1582.075	1574.750	1579.411	1573.419
<b>4.5</b>	1604.048	1580.077	1573.419	1578.080	1571.421
<b>5.0</b>	1602.716	1578.746	1571.421	1576.082	1569.424
<b>5.5</b>	1600.719	1576.748	1569.424	1574.085	1567.426
<b>6.0</b>	1598.721	1574.085	1567.426	1572.087	1564.763
<b>6.5</b>	1596.058	1572.087	1564.763	1569.424	1562.765
<b>7.0</b>	1594.060	1569.424	1562.765	1566.760	1560.102
<b>7.5</b>	1592.063	1566.760	1560.102	1564.097	1558.104
<b>8.0</b>	1588.733	1564.097	1556.772	1561.433	1555.441
<b>8.5</b>	1586.070	1560.767	1553.443	1558.104	1552.111
<b>9.0</b>	1582.741	1558.104	1550.780	1554.775	1548.782
<b>9.5</b>	1579.411	1554.775	1546.784	1550.780	1545.453
<b>10.0</b>	1576.082	1551.445	1543.455	1547.450	1541.458
<b>10.5</b>	1572.087	1547.450	1539.460	1543.455	1538.128
<b>11.0</b>	1568.758	1543.455	1535.465	1539.460	1533.467
<b>11.5</b>	1564.097	1539.460	1531.470	1535.465	1529.472
<b>12.0</b>	1560.102	1535.465	1527.475	1530.804	1524.811
<b>12.5</b>	1556.106	1530.804	1522.814	1526.143	1520.150
<b>13.0</b>	1551.445	1526.809	1518.153	1521.482	1515.489
<b>13.5</b>	1546.784	1521.482	1513.492	1516.155	1510.828
<b>14.0</b>	1542.123	1516.821	1508.165	1511.494	1506.167
<b>14.5</b>	1537.462	1512.160	1502.838	1506.167	1500.840
<b>15.0</b>	1532.801	1506.833	1497.511	1500.840	1495.514
<b>15.5</b>	1526.809	1502.172	1492.184	1494.848	1489.521
<b>16.0</b>	1520.150	1496.845	1486.192	1489.521	1484.194
<b>16.5</b>	1513.492	1490.853	1480.199	1483.528	1478.201
<b>17.0</b>	1507.499	1484.860	1474.206	1477.535	1472.209
<b>17.5</b>	1500.840	1478.201	1467.548	1470.877	1465.550
<b>18.0</b>	1494.182	1471.543	1460.889	1464.218	1458.891
<b>18.5</b>	1487.523	1464.884	1454.230	1456.894	1452.233
<b>19.0</b>	1480.865	1458.226	1448.238	1450.235	1444.243
<b>19.5</b>	1473.540	1451.567	1441.579	1442.245	1436.252
<b>20.0</b>	1466.882	1444.243	1435.586	1434.921	1428.262
<b>20.5</b>	1459.557	1437.584	1428.928	1426.930	1420.272
<b>21.0</b>	1452.233	1430.260	1421.603	1418.940	1411.616
<b>21.5</b>	1444.243	1422.935	1413.613	1410.950	1402.959
<b>22.0</b>	1436.918	1414.945	1404.957	1402.294	1394.969
<b>22.5</b>	1428.928	1406.955	1396.967	1393.637	1386.313
<b>23.0</b>	1420.938	1398.964	1388.976	1384.315	1377.657
<b>23.5</b>	1412.947	1390.974	1380.320	1375.659	1369.667
<b>24.0</b>	1404.291	1382.984	1372.330	1367.003	1361.011
<b>24.5</b>	1395.635	1374.328	1363.674	1358.347	1352.354
<b>25.0</b>	1387.645	1365.672	1355.018	1349.691	1343.698
<b>25.5</b>	1378.989	1357.015	1345.696	1341.035	1334.376
<b>26.0</b>	1369.667	1347.693	1337.040	1332.379	1325.720
<b>26.5</b>	1361.011	1339.037	1327.718	1323.723	1317.064

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27.0	1351.689	1329.715	1318.396	1315.066	1307.742
27.5	1342.367	1320.393	1309.740	1306.410	1299.086
28.0	1333.045	1310.405	1299.752	1297.088	1289.764
28.5	1323.057	1300.418	1290.430	1288.432	1280.442
29.0	1313.069	1291.096	1281.108	1279.110	1271.120
29.5	1303.747	1281.108	1271.786	1269.122	1262.464
30.0	1293.759	1271.120	1262.464	1259.800	1253.142
30.5	1283.771	1261.132	1252.476	1250.478	1243.820
31.0	1273.117	1251.810	1242.488	1240.491	1234.498
31.5	1263.130	1241.822	1232.500	1230.503	1224.510
32.0	1252.476	1231.169	1222.512	1219.849	1214.522
32.5	1241.822	1221.181	1212.525	1209.861	1203.868
33.0	1231.169	1211.193	1202.537	1199.873	1193.215
33.5	1221.181	1200.539	1191.883	1189.220	1183.227
34.0	1209.861	1189.885	1181.895	1178.566	1172.573
34.5	1199.207	1179.232	1170.576	1167.912	1161.254
35.0	1188.554	1169.244	1159.922	1157.258	1149.934
35.5	1177.234	1157.924	1149.268	1146.605	1138.614
36.0	1165.915	1147.271	1138.614	1135.285	1127.961
36.5	1155.261	1136.617	1127.961	1124.631	1117.307
37.0	1143.941	1125.297	1116.641	1113.312	1105.988
37.5	1132.622	1113.978	1105.988	1101.992	1095.334
38.0	1120.636	1102.658	1094.668	1090.673	1084.014
38.5	1109.317	1091.339	1083.348	1080.019	1072.695
39.0	1098.663	1080.019	1072.029	1068.700	1062.041
39.5	1086.678	1068.700	1061.375	1057.380	1050.056
40.0	1075.358	1056.714	1050.056	1046.060	1039.402
40.5	1063.373	1045.395	1038.736	1034.741	1028.082
41.0	1052.053	1033.409	1027.416	1022.755	1016.097
41.5	1040.068	1022.090	1015.431	1011.436	1004.111
42.0	1028.748	1010.104	1004.111	1000.116	992.792
42.5	1017.429	998.785	992.792	988.131	981.472
43.0	1005.443	987.465	981.472	976.811	969.487
43.5	994.124	975.480	969.487	965.492	958.167
44.0	982.138	963.494	957.502	953.506	946.848
44.5	970.153	951.509	945.516	941.521	934.862
45.0	958.167	940.189	934.197	929.536	923.543
45.5	946.848	928.204	922.211	918.216	912.223
46.0	934.862	916.218	910.226	906.231	900.904
46.5	922.877	904.233	898.906	894.911	889.584
47.0	910.892	892.248	886.921	882.926	877.599
47.5	898.240	880.262	874.935	870.940	866.279
48.0	886.255	868.277	862.950	859.621	854.294
48.5	874.269	856.291	851.630	847.635	842.308
49.0	861.618	844.306	839.645	835.650	830.989
49.5	849.633	832.321	827.660	824.330	819.669
50.0	836.982	820.335	815.674	812.345	807.684
50.5	824.330	808.350	803.689	800.359	796.364
51.0	811.679	796.364	791.703	788.374	784.379
51.5	799.694	784.379	779.718	777.054	772.393
52.0	787.708	772.393	767.732	765.069	761.074
52.5	775.057	760.408	755.747	753.749	749.088
53.0	763.071	748.423	743.762	741.764	737.103
53.5	750.420	736.437	731.776	729.779	725.118
54.0	738.435	724.452	720.457	718.459	713.132
54.5	726.449	713.132	708.471	706.474	701.147

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55.0	714.464	701.813	697.152	695.154	689.827
55.5	703.144	689.827	685.166	683.169	678.508
56.0	690.493	677.842	673.181	671.849	666.522
56.5	678.508	666.522	661.528	660.063	654.803
57.0	667.188	654.537	649.743	648.145	643.151
57.5	655.469	642.951	638.024	636.559	631.365
58.0	643.750	631.498	626.238	624.906	619.713
58.5	631.964	619.979	614.652	613.454	608.526
59.0	620.378	608.393	603.000	601.868	597.140
59.5	609.125	596.674	591.147	590.348	585.887
60.0	597.606	585.021	579.428	578.762	574.434
60.5	586.220	573.635	568.109	567.110	562.848
61.0	575.034	562.249	556.856	555.724	551.529
61.5	563.048	550.996	545.669	544.404	540.342
62.0	551.263	539.410	534.083	533.151	528.890
62.5	539.211	528.690	523.163	522.431	518.036
63.0	527.625	519.235	514.774	514.441	510.845
63.5	515.906	508.914	505.385	504.653	500.924
64.0	508.847	498.860	495.664	494.199	489.937
64.5	497.861	488.139	484.677	483.345	479.350
65.0	485.543	476.687	473.823	472.558	468.696
65.5	472.958	465.101	462.504	461.905	457.976
66.0	460.839	453.781	451.451	451.184	446.989
66.5	448.854	442.195	440.198	440.198	436.469
67.0	437.002	430.676	429.078	429.278	425.882
67.5	425.349	419.356	417.891	418.291	414.962
68.0	413.563	408.037	406.705	407.238	403.775
68.5	401.711	396.517	395.452	396.185	392.789
69.0	389.459	384.932	384.133	384.532	381.403
69.5	377.541	373.545	372.613	373.079	370.216
70.0	365.755	362.026	361.360	361.560	359.030
70.5	354.169	350.440	349.974	350.174	347.777
71.0	342.317	338.921	338.788	339.054	336.457
71.5	330.465	327.402	327.668	327.868	325.604
72.0	318.945	315.816	316.348	316.615	314.684
72.5	307.426	304.430	305.295	305.562	303.963
73.0	296.040	293.310	294.508	294.841	293.443
73.5	284.987	282.323	283.721	284.321	282.789
74.0	274.067	271.336	273.068	273.534	272.535
74.5	263.146	260.550	262.481	262.947	262.214
75.0	252.160	249.829	252.027	252.493	251.893
75.5	241.306	239.109	241.639	242.239	241.573
76.0	230.320	228.788	231.385	232.051	231.518
76.5	219.932	218.601	221.198	221.930	221.464
77.0	209.811	208.346	211.210	211.876	211.143
77.5	199.357	198.359	201.222	201.754	201.022
78.0	189.170	188.371	191.234	192.033	191.301
78.5	179.049	178.649	181.379	182.311	181.712
79.0	169.327	168.928	171.724	172.856	172.390
79.5	159.606	159.406	162.203	163.401	163.002
80.0	150.017	150.084	152.681	154.346	153.813
80.5	140.363	140.962	143.625	145.223	144.824
81.0	131.107	132.039	134.636	136.301	136.034
81.5	122.185	123.183	125.847	127.512	127.312
82.0	113.861	114.527	117.257	118.989	118.789
82.5	105.538	106.138	108.801	110.532	110.399

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83.0	97.215	98.147	100.478	102.276	102.409
83.5	89.025	90.157	92.421	94.152	94.552
84.0	81.368	82.300	84.431	86.095	86.695
84.5	73.577	74.576	76.573	78.238	78.837
85.0	66.319	67.118	68.983	70.448	70.980
85.5	59.261	59.661	61.259	62.790	63.323
86.0	52.336	52.469	53.868	55.266	55.932
86.5	45.478	45.478	46.743	48.008	48.608
87.0	38.553	38.553	39.485	41.083	41.549
87.5	31.695	31.761	32.627	34.225	34.824
88.0	25.169	25.103	25.968	27.700	28.365
88.5	18.910	18.511	19.643	21.174	22.106
89.0	12.252	12.052	13.583	15.048	16.047
89.5	5.660	6.725	8.123	9.255	9.588
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.188	2.207	2.038	1.981	2.151
91.0	9.225	4.867	3.962	3.905	3.849
91.5	14.829	9.905	5.886	5.830	5.773
92.0	20.488	16.470	8.490	7.584	7.584
92.5	26.375	23.262	13.131	9.508	9.339
93.0	32.487	29.770	18.564	12.621	11.376
93.5	38.656	35.996	24.394	17.036	14.829
94.0	44.712	42.109	30.846	22.300	19.526
94.5	50.938	48.221	37.581	27.733	24.620
95.0	57.051	54.504	44.203	33.280	29.657
95.5	63.163	60.390	50.655	38.996	34.977
96.0	68.993	66.389	56.994	44.939	40.411
96.5	74.879	72.389	63.333	50.995	46.014
97.0	80.595	78.275	69.615	57.051	51.957
97.5	86.481	84.218	75.954	63.220	57.900
98.0	92.311	90.047	82.123	69.332	63.899
98.5	98.141	95.933	88.066	75.558	69.898
99.0	104.083	101.989	94.122	81.501	75.954
99.5	110.083	107.989	100.235	87.444	81.897
100.0	115.969	114.045	106.347	93.556	87.727
100.5	122.081	120.101	112.460	99.895	93.613
101.0	128.364	126.156	118.686	106.291	100.008
101.5	134.759	132.326	125.025	112.686	106.630
102.0	140.985	138.721	131.363	119.082	113.196
102.5	147.494	145.060	137.929	125.477	119.704
103.0	154.172	151.625	144.438	131.816	126.326
103.5	160.851	158.304	151.343	138.608	132.892
104.0	167.699	165.039	158.361	145.626	139.740
104.5	174.774	172.057	165.379	152.814	146.588
105.0	182.019	179.245	172.340	159.889	153.550
105.5	189.433	186.546	179.528	167.020	160.455
106.0	196.960	193.904	186.829	174.265	167.360
106.5	204.544	201.488	194.470	181.566	174.321
107.0	212.638	209.412	202.620	189.320	181.905
107.5	221.014	217.562	210.883	197.526	190.112
108.0	229.334	225.938	219.316	206.412	198.545
108.5	238.107	234.485	227.750	215.298	207.261
109.0	247.106	243.201	236.409	224.297	216.090
109.5	256.331	252.256	245.521	233.240	225.033
110.0	266.179	261.538	254.860	242.408	234.371
110.5	276.254	271.047	264.425	252.256	244.050

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111.0	286.441	281.008	274.330	262.501	253.785
111.5	296.855	291.252	284.404	272.915	263.802
112.0	307.666	301.779	294.422	283.329	273.367
112.5	318.532	312.590	304.553	293.686	283.498
113.0	329.909	323.739	315.250	304.383	294.082
113.5	341.624	335.399	326.569	315.929	305.458
114.0	353.510	347.284	338.568	328.211	318.080
114.5	365.792	359.566	350.793	341.002	331.493
115.0	378.243	372.187	363.471	353.906	345.077
115.5	391.261	384.922	376.489	366.754	358.490
116.0	404.391	398.165	389.959	380.281	372.131
116.5	418.258	411.749	403.882	394.147	386.676
117.0	432.690	425.615	417.918	409.089	401.675
117.5	443.331	436.426	430.766	422.842	416.899
118.0	456.914	449.047	443.953	437.048	430.426
118.5	472.705	464.102	457.423	450.235	442.595
119.0	488.156	478.931	472.705	465.177	456.122
119.5	503.777	494.721	488.892	480.345	471.290
120.0	519.907	511.078	505.135	496.929	487.307
120.5	535.925	527.661	521.888	514.531	504.400
121.0	552.734	544.584	538.754	532.076	522.567
121.5	569.374	561.337	555.564	549.848	540.339
122.0	586.919	578.429	573.336	567.676	558.167
122.5	603.898	595.409	590.881	585.221	575.034
123.0	621.444	613.520	608.992	604.464	593.711
123.5	639.555	631.631	628.236	623.708	612.954
124.0	657.666	650.309	646.913	642.951	632.763
124.5	675.778	668.420	665.590	661.628	652.007
125.0	693.889	686.531	683.701	680.306	670.684
125.5	712.566	705.209	702.379	698.983	688.795
126.0	730.678	723.320	721.622	717.660	706.906
126.5	748.789	741.431	740.865	737.469	726.150
127.0	767.466	760.108	760.108	757.279	746.525
127.5	786.143	778.220	778.220	776.522	766.900
128.0	804.255	796.331	796.897	795.765	786.143
128.5	822.366	813.876	815.008	815.008	804.821
129.0	840.477	831.422	833.120	833.686	824.064
129.5	858.589	849.533	851.797	852.929	843.873
130.0	876.700	867.644	870.474	872.172	864.814
130.5	894.811	885.190	889.717	890.849	884.624
131.0	912.922	902.735	907.829	908.961	902.735
131.5	929.902	919.714	925.940	925.940	920.280
132.0	947.447	936.694	943.485	944.051	937.259
132.5	964.426	954.239	961.031	961.597	954.239
133.0	981.406	971.784	978.010	979.142	970.652
133.5	998.385	988.763	995.555	996.687	988.198
134.0	1015.364	1005.177	1011.969	1013.667	1005.177
134.5	1030.646	1021.590	1027.816	1028.948	1021.590
135.0	1045.927	1037.438	1043.097	1044.229	1036.306
135.5	1060.643	1053.851	1058.379	1058.945	1051.021
136.0	1075.358	1069.132	1072.528	1074.226	1066.302
136.5	1090.640	1083.848	1086.678	1089.508	1082.150
137.0	1104.789	1098.563	1101.393	1103.657	1096.865
137.5	1118.938	1112.147	1114.977	1116.675	1109.883
138.0	1132.522	1125.730	1127.994	1129.126	1122.334
138.5	1146.105	1138.748	1141.012	1141.578	1134.220

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1159.123	1151.765	1154.029	1154.029	1146.105
139.5	1172.140	1164.783	1166.481	1165.915	1157.425
140.0	1184.592	1176.668	1178.932	1178.366	1169.876
140.5	1196.477	1187.988	1190.252	1189.686	1180.630
141.0	1208.363	1199.873	1201.571	1200.439	1191.384
141.5	1219.117	1210.627	1212.891	1211.193	1201.005
142.0	1230.436	1221.946	1223.644	1221.380	1211.193
142.5	1241.190	1232.700	1234.398	1232.134	1220.814
143.0	1251.943	1242.888	1244.586	1242.322	1231.002
143.5	1262.131	1253.641	1254.773	1252.509	1240.624
144.0	1271.752	1263.829	1264.395	1261.565	1249.679
144.5	1281.374	1273.450	1274.016	1270.621	1258.735
145.0	1290.430	1283.072	1283.072	1279.110	1267.225
145.5	1300.051	1292.694	1292.128	1288.732	1276.280
146.0	1309.107	1301.749	1301.183	1297.221	1285.336
146.5	1318.163	1310.805	1309.673	1306.277	1294.392
147.0	1326.652	1319.861	1317.597	1315.333	1303.447
147.5	1335.142	1328.350	1326.086	1323.822	1311.937
148.0	1343.632	1336.840	1333.444	1331.746	1320.993
148.5	1352.121	1345.330	1340.802	1339.670	1330.048
149.0	1360.045	1353.819	1348.159	1347.594	1339.104
149.5	1367.969	1361.743	1354.951	1355.517	1347.594
150.0	1375.892	1369.667	1362.309	1362.875	1355.517
150.5	1383.816	1377.590	1369.101	1369.667	1363.441
151.0	1391.174	1384.948	1375.892	1376.458	1370.799
151.5	1399.098	1392.306	1383.250	1383.250	1377.590
152.0	1406.455	1399.663	1390.042	1389.476	1384.382
152.5	1413.813	1406.455	1396.834	1396.268	1390.608
153.0	1421.171	1413.247	1403.625	1403.059	1396.268
153.5	1427.962	1420.039	1410.417	1409.851	1401.361
154.0	1434.754	1426.830	1417.775	1416.643	1407.021
154.5	1442.112	1433.056	1424.567	1422.869	1412.681
155.0	1448.904	1439.282	1431.358	1429.660	1418.907
155.5	1455.129	1444.942	1438.150	1436.452	1425.132
156.0	1461.355	1451.167	1445.508	1442.678	1431.358
156.5	1467.581	1457.393	1452.299	1449.470	1437.584
157.0	1473.807	1463.619	1459.091	1456.261	1443.810
157.5	1479.466	1469.279	1465.317	1462.487	1450.036
158.0	1485.126	1474.939	1471.543	1468.713	1456.261
158.5	1491.352	1481.164	1477.768	1474.939	1463.053
159.0	1496.446	1486.824	1483.428	1481.164	1469.279
159.5	1502.106	1492.484	1489.088	1487.390	1475.505
160.0	1507.199	1497.578	1494.748	1493.050	1481.730
160.5	1512.293	1502.671	1499.842	1498.710	1487.956
161.0	1517.387	1507.765	1504.935	1504.369	1494.182
161.5	1522.481	1513.425	1509.463	1510.029	1500.408
162.0	1528.140	1518.519	1513.991	1515.689	1506.067
162.5	1533.234	1523.613	1518.519	1520.783	1511.161
163.0	1538.328	1528.706	1523.047	1525.877	1516.255
163.5	1543.422	1533.234	1527.575	1530.970	1520.783
164.0	1548.516	1537.762	1531.536	1535.498	1525.311
164.5	1552.478	1542.290	1535.498	1540.026	1529.838
165.0	1557.005	1546.818	1539.460	1544.554	1533.800
165.5	1561.533	1550.780	1543.422	1548.516	1537.762
166.0	1566.061	1554.741	1547.384	1552.478	1541.158
166.5	1570.589	1558.703	1551.346	1555.873	1545.120

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1574.551	1562.099	1554.741	1559.269	1548.516
167.5	1578.513	1565.495	1558.703	1562.665	1552.478
168.0	1582.474	1568.891	1562.099	1566.061	1555.873
168.5	1586.436	1572.287	1565.495	1569.457	1559.835
169.0	1589.832	1575.117	1568.891	1572.287	1563.231
169.5	1592.662	1577.947	1571.721	1575.117	1566.627
170.0	1595.492	1580.776	1574.551	1577.947	1570.589
170.5	1598.322	1583.606	1576.815	1580.776	1573.419
171.0	1601.152	1585.870	1579.079	1583.606	1576.249
171.5	1603.416	1588.134	1581.342	1586.436	1579.079
172.0	1605.679	1590.398	1583.040	1588.700	1581.342
172.5	1607.943	1592.662	1584.738	1590.398	1583.040
173.0	1610.207	1594.926	1586.436	1592.662	1584.172
173.5	1611.905	1596.624	1588.134	1593.794	1585.304
174.0	1613.603	1598.322	1589.832	1594.926	1585.870
174.5	1614.735	1599.454	1590.964	1596.058	1586.436
175.0	1615.867	1601.152	1592.096	1596.624	1586.436
175.5	1616.999	1602.284	1593.794	1597.190	1587.002
176.0	1618.131	1603.416	1594.926	1597.190	1587.002
176.5	1618.697	1604.548	1595.492	1597.756	1587.002
177.0	1619.263	1605.679	1596.624	1597.756	1586.436
177.5	1620.395	1606.811	1597.756	1597.756	1586.436
178.0	1620.961	1606.811	1598.322	1597.756	1587.002
178.5	1620.961	1607.377	1598.888	1597.756	1587.002
179.0	1621.527	1607.943	1598.888	1597.756	1587.002
179.5	1622.093	1607.943	1599.454	1597.756	1587.002
180.0	1602.284	1602.284	1602.284	1602.284	1602.284



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	573.70	N.A.	7.00
0-30	1199.4	N.A.	14.70
0-40	1926.86	N.A.	23.70
0-60	3274.16	N.A.	40.20
0-80	4009.58	N.A.	49.30
0-90	4087.29	N.A.	50.20
10-90	3937.54	N.A.	48.40
20-40	1353.16	N.A.	16.60
20-50	2075.31	N.A.	25.50
40-70	1815.54	N.A.	22.30
60-80	735.42	N.A.	9.00
70-80	267.18	N.A.	3.30
80-90	77.71	N.A.	1.00
90-110	231.88	N.A.	2.80
90-120	595.25	N.A.	7.30
90-130	1205.88	N.A.	14.80
90-150	2804.79	N.A.	34.50
90-180	4053.67	N.A.	49.80
110-180	3821.79	N.A.	46.90
0-180	8140.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.75
10-20	423.95
20-30	625.71
30-40	727.45
40-50	722.15
50-60	625.16
60-70	468.23
70-80	267.18
80-90	77.71
90-100	50.01
100-110	181.87
110-120	363.37
120-130	610.63
130-140	798.46
140-150	800.45
150-160	661.21
160-170	435.71
170-180	151.95

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-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	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	36	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-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	16.1	17.0	17.1	18.0	19.2	UGR Viewed Endwise	16.0	16.9	17.0	17.9	19.1
	3H	17.9	18.7	18.9	19.6	20.9		17.8	18.6	18.8	19.6	20.8
	4H	18.5	19.2	19.5	20.2	21.5		18.4	19.2	19.4	20.1	21.4
	6H	18.9	19.6	19.9	20.6	21.9		18.9	19.6	19.9	20.6	21.9
	8H	19.1	19.7	20.1	20.7	22.0		19.0	19.7	20.0	20.7	22.0
	12H	19.1	19.8	20.1	20.8	22.1		19.1	19.7	20.1	20.7	22.1

4H	2H	16.7	17.4	17.7	18.4	19.7		16.6	17.3	17.6	18.3	19.6
	3H	18.6	19.2	19.6	20.3	21.6		18.6	19.2	19.6	20.2	21.5
	4H	19.4	19.9	20.4	20.9	22.3		19.3	19.9	20.3	20.9	22.2
	6H	19.9	20.4	20.9	21.4	22.8		19.9	20.4	20.9	21.4	22.8
	8H	20.1	20.6	21.1	21.6	22.9		20.1	20.6	21.1	21.6	22.9
	12H	20.2	20.6	21.3	21.7	23.0		20.2	20.6	21.3	21.7	23.0

8H	4H	19.6	20.1	20.6	21.1	22.4		19.6	20.0	20.6	21.0	22.4
	6H	20.3	20.7	21.3	21.7	23.1		20.3	20.7	21.3	21.7	23.1
	8H	20.6	20.9	21.6	21.9	23.3		20.6	20.9	21.6	22.0	23.3
	12H	20.8	21.0	21.8	22.1	23.5		20.8	21.1	21.9	22.1	23.5

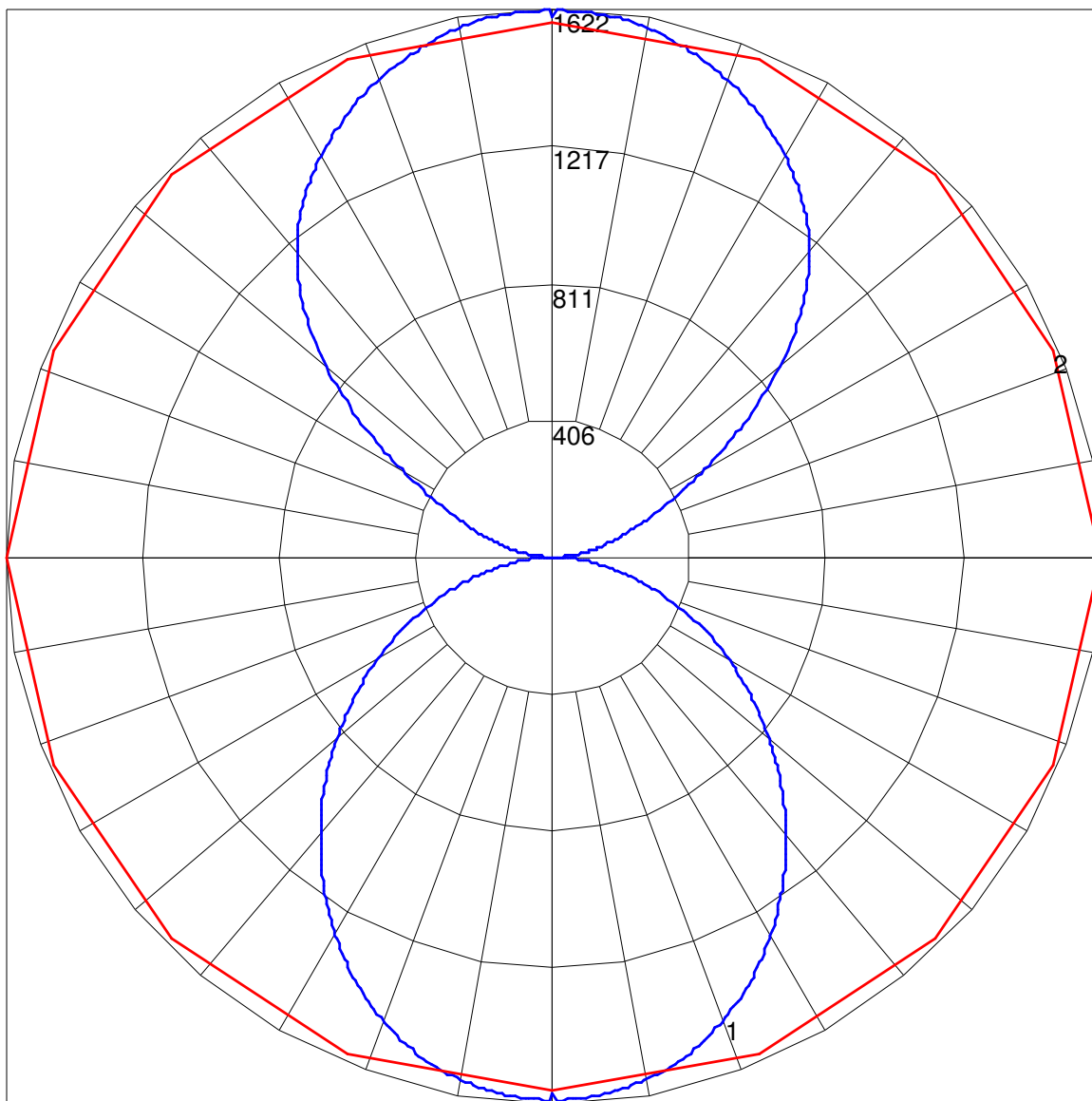
12H	4H	19.6	20.0	20.6	21.1	22.4		19.6	20.0	20.6	21.0	22.4
	6H	20.3	20.7	21.4	21.7	23.1		20.3	20.7	21.4	21.7	23.1
	8H	20.6	20.9	21.7	22.0	23.4		20.7	20.9	21.7	22.0	23.4

Maximum UGR = 23.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L8-940D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1622.093 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.)