

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-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-L15-950U-L8-950D-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	8425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	11322	11038	10912
55	10407	10155	10048
65	9599	9367	9266
75	8140	8136	8131
85	6358	6613	6804

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-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	1642.776	1642.776	1642.776	1642.776	1642.776
0.5	1667.583	1644.154	1635.885	1639.331	1633.818
1.0	1667.583	1643.465	1635.885	1639.331	1633.818
1.5	1666.894	1642.776	1635.196	1639.331	1633.129
2.0	1666.205	1642.087	1634.507	1638.641	1633.129
2.5	1665.516	1641.398	1633.129	1637.952	1632.440
3.0	1664.138	1640.020	1632.440	1637.263	1631.062
3.5	1662.759	1638.641	1631.062	1635.885	1629.683
4.0	1661.381	1637.263	1629.683	1634.507	1628.305
4.5	1660.003	1635.196	1628.305	1633.129	1626.238
5.0	1658.625	1633.818	1626.238	1631.062	1624.171
5.5	1656.558	1631.751	1624.171	1628.994	1622.103
6.0	1654.490	1628.994	1622.103	1626.927	1619.347
6.5	1651.734	1626.927	1619.347	1624.171	1617.280
7.0	1649.667	1624.171	1617.280	1621.414	1614.524
7.5	1647.600	1621.414	1614.524	1618.658	1612.456
8.0	1644.154	1618.658	1611.078	1615.902	1609.700
8.5	1641.398	1615.213	1607.633	1612.456	1606.255
9.0	1637.952	1612.456	1604.876	1609.011	1602.809
9.5	1634.507	1609.011	1600.742	1604.876	1599.364
10.0	1631.062	1605.565	1597.296	1601.431	1595.229
10.5	1626.927	1601.431	1593.162	1597.296	1591.784
11.0	1623.482	1597.296	1589.027	1593.162	1586.960
11.5	1618.658	1593.162	1584.893	1589.027	1582.826
12.0	1614.524	1589.027	1580.758	1584.204	1578.002
12.5	1610.389	1584.204	1575.935	1579.380	1573.178
13.0	1605.565	1580.069	1571.111	1574.557	1568.355
13.5	1600.742	1574.557	1566.288	1569.044	1563.531
14.0	1595.918	1569.733	1560.775	1564.220	1558.708
14.5	1591.095	1564.909	1555.262	1558.708	1553.195
15.0	1586.271	1559.397	1549.750	1553.195	1547.682
15.5	1580.069	1554.573	1544.237	1546.993	1541.481
16.0	1573.178	1549.061	1538.035	1541.481	1535.968
16.5	1566.288	1542.859	1531.833	1535.279	1529.766
17.0	1560.086	1536.657	1525.632	1529.077	1523.564
17.5	1553.195	1529.766	1518.741	1522.186	1516.674
18.0	1546.304	1522.875	1511.850	1515.295	1509.783
18.5	1539.413	1515.985	1504.959	1507.716	1502.892
19.0	1532.523	1509.094	1498.757	1500.825	1494.623
19.5	1524.943	1502.203	1491.867	1492.556	1486.354
20.0	1518.052	1494.623	1485.665	1484.976	1478.085
20.5	1510.472	1487.732	1478.774	1476.707	1469.816
21.0	1502.892	1480.152	1471.194	1468.438	1460.858
21.5	1494.623	1472.572	1462.925	1460.169	1451.900
22.0	1487.043	1464.303	1453.967	1451.211	1443.631
22.5	1478.774	1456.034	1445.698	1442.253	1434.673
23.0	1470.505	1447.765	1437.429	1432.605	1425.715
23.5	1462.236	1439.496	1428.471	1423.647	1417.446
24.0	1453.278	1431.227	1420.202	1414.689	1408.487
24.5	1444.320	1422.269	1411.244	1405.731	1399.529
25.0	1436.051	1413.311	1402.286	1396.773	1390.571
25.5	1427.093	1404.353	1392.639	1387.815	1380.924
26.0	1417.446	1394.706	1383.680	1378.857	1371.966
26.5	1408.487	1385.748	1374.033	1369.899	1363.008

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1398.840	1376.100	1364.386	1360.941	1353.361
27.5	1389.193	1366.453	1355.428	1351.983	1344.403
28.0	1379.546	1356.117	1345.092	1342.335	1334.755
28.5	1369.210	1345.781	1335.445	1333.377	1325.108
29.0	1358.873	1336.134	1325.797	1323.730	1315.461
29.5	1349.226	1325.797	1316.150	1313.394	1306.503
30.0	1338.890	1315.461	1306.503	1303.747	1296.856
30.5	1328.554	1305.125	1296.167	1294.100	1287.209
31.0	1317.528	1295.478	1285.831	1283.763	1277.562
31.5	1307.192	1285.141	1275.494	1273.427	1267.225
32.0	1296.167	1274.116	1265.158	1262.402	1256.889
32.5	1285.141	1263.780	1254.822	1252.065	1245.864
33.0	1274.116	1253.444	1244.485	1241.729	1234.838
33.5	1263.780	1242.418	1233.460	1230.704	1224.502
34.0	1252.065	1231.393	1223.124	1219.678	1213.477
34.5	1241.040	1220.368	1211.409	1208.653	1201.762
35.0	1230.015	1210.031	1200.384	1197.628	1190.048
35.5	1218.300	1198.317	1189.359	1186.602	1178.333
36.0	1206.586	1187.292	1178.333	1174.888	1167.308
36.5	1195.561	1176.266	1167.308	1163.863	1156.283
37.0	1183.846	1164.552	1155.594	1152.148	1144.568
37.5	1172.132	1152.837	1144.568	1140.434	1133.543
38.0	1159.728	1141.123	1132.854	1128.719	1121.829
38.5	1148.014	1129.408	1121.139	1117.694	1110.114
39.0	1136.988	1117.694	1109.425	1105.980	1099.089
39.5	1124.585	1105.980	1098.400	1094.265	1086.685
40.0	1112.870	1093.576	1086.685	1082.551	1075.660
40.5	1100.467	1081.862	1074.971	1070.836	1063.946
41.0	1088.753	1069.458	1063.256	1058.433	1051.542
41.5	1076.349	1057.744	1050.853	1046.718	1039.138
42.0	1064.635	1045.340	1039.138	1035.004	1027.424
42.5	1052.920	1033.626	1027.424	1022.600	1015.710
43.0	1040.517	1021.911	1015.710	1010.886	1003.306
43.5	1028.802	1009.508	1003.306	999.172	991.592
44.0	1016.399	997.104	990.903	986.768	979.877
44.5	1003.995	984.701	978.499	974.365	967.474
45.0	991.592	972.986	966.785	961.961	955.759
45.5	979.877	960.583	954.381	950.247	944.045
46.0	967.474	948.179	941.978	937.843	932.330
46.5	955.070	935.776	930.263	926.129	920.616
47.0	942.667	923.372	917.860	913.725	908.213
47.5	929.574	910.969	905.456	901.322	896.498
48.0	917.171	898.565	893.053	889.607	884.095
48.5	904.767	886.162	881.338	877.204	871.691
49.0	891.675	873.758	868.935	864.800	859.977
49.5	879.271	861.355	856.531	853.086	848.262
50.0	866.178	848.951	844.128	840.682	835.859
50.5	853.086	836.548	831.724	828.279	824.144
51.0	839.993	824.144	819.321	815.875	811.741
51.5	827.590	811.741	806.917	804.161	799.337
52.0	815.186	799.337	794.514	791.757	787.623
52.5	802.094	786.934	782.110	780.043	775.219
53.0	789.690	774.530	769.707	767.639	762.816
53.5	776.598	762.127	757.303	755.236	750.412
54.0	764.194	749.723	745.589	743.522	738.009
54.5	751.791	738.009	733.185	731.118	725.605

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

55.0	739.387	726.294	721.471	719.404	713.891
55.5	727.673	713.891	709.067	707.000	702.176
56.0	714.580	701.487	696.664	695.286	689.773
56.5	702.176	689.773	684.605	683.089	677.645
57.0	690.462	677.369	672.408	670.754	665.586
57.5	678.334	665.379	660.280	658.764	653.389
58.0	666.206	653.527	648.083	646.705	641.330
58.5	654.010	641.606	636.093	634.853	629.754
59.0	642.019	629.616	624.034	622.863	617.970
59.5	630.374	617.488	611.769	610.942	606.325
60.0	618.453	605.429	599.641	598.952	594.473
60.5	606.669	593.646	587.926	586.893	582.483
61.0	595.093	581.862	576.281	575.109	570.768
61.5	582.689	570.217	564.704	563.395	559.192
62.0	570.493	558.227	552.714	551.749	547.339
62.5	558.020	547.133	541.413	540.655	536.107
63.0	546.030	537.348	532.731	532.386	528.665
63.5	533.902	526.667	523.015	522.257	518.398
64.0	526.598	516.262	512.954	511.438	507.028
64.5	515.228	505.167	501.584	500.206	496.071
65.0	502.480	493.315	490.352	489.043	485.046
65.5	489.456	481.325	478.638	478.017	473.952
66.0	476.915	469.611	467.199	466.923	462.582
66.5	464.511	457.621	455.553	455.553	451.694
67.0	452.246	445.699	444.046	444.252	440.738
67.5	440.187	433.985	432.469	432.882	429.437
68.0	427.990	422.271	420.892	421.444	417.860
68.5	415.724	410.349	409.247	410.005	406.491
69.0	403.045	398.359	397.532	397.946	394.707
69.5	390.711	386.576	385.611	386.094	383.131
70.0	378.514	374.655	373.966	374.173	371.554
70.5	366.524	362.665	362.182	362.389	359.909
71.0	354.258	350.744	350.606	350.882	348.194
71.5	341.992	338.823	339.098	339.305	336.962
72.0	330.071	326.832	327.384	327.659	325.661
72.5	318.150	315.049	315.945	316.221	314.567
73.0	306.367	303.541	304.782	305.126	303.679
73.5	294.928	292.172	293.619	294.239	292.654
74.0	283.627	280.802	282.593	283.076	282.042
74.5	272.326	269.639	271.637	272.119	271.361
75.0	260.956	258.544	260.818	261.301	260.680
75.5	249.724	247.450	250.069	250.689	250.000
76.0	238.354	236.769	239.457	240.146	239.594
76.5	227.604	226.226	228.914	229.672	229.189
77.0	217.130	215.614	218.577	219.266	218.508
77.5	206.312	205.278	208.241	208.792	208.034
78.0	195.769	194.942	197.905	198.732	197.974
78.5	185.295	184.881	187.706	188.671	188.051
79.0	175.234	174.821	177.715	178.886	178.404
79.5	165.173	164.967	167.861	169.101	168.688
80.0	155.251	155.320	158.007	159.730	159.178
80.5	145.259	145.879	148.635	150.289	149.876
81.0	135.681	136.645	139.333	141.055	140.780
81.5	126.447	127.481	130.237	131.960	131.753
82.0	117.833	118.522	121.348	123.139	122.933
82.5	109.220	109.840	112.596	114.388	114.250

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	100.606	101.571	103.983	105.843	105.981
83.5	92.131	93.302	95.645	97.436	97.850
84.0	84.206	85.171	87.376	89.099	89.719
84.5	76.144	77.177	79.245	80.967	81.588
85.0	68.633	69.460	71.389	72.905	73.456
85.5	61.328	61.742	63.396	64.981	65.532
86.0	54.162	54.300	55.747	57.194	57.883
86.5	47.064	47.064	48.374	49.683	50.303
87.0	39.898	39.898	40.863	42.516	42.999
87.5	32.800	32.869	33.765	35.419	36.039
88.0	26.047	25.978	26.874	28.666	29.355
88.5	19.570	19.157	20.328	21.913	22.878
89.0	12.679	12.472	14.057	15.573	16.607
89.5	5.857	6.960	8.407	9.578	9.923
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.334	2.284	2.109	2.050	2.226
91.0	9.547	5.037	4.100	4.041	3.983
91.5	15.346	10.250	6.092	6.033	5.974
92.0	21.203	17.044	8.786	7.849	7.849
92.5	27.295	24.073	13.589	9.840	9.664
93.0	33.620	30.809	19.212	13.062	11.773
93.5	40.005	37.252	25.245	17.630	15.346
94.0	46.272	43.578	31.922	23.077	20.207
94.5	52.715	49.903	38.892	28.700	25.479
95.0	59.041	56.405	45.745	34.440	30.692
95.5	65.366	62.496	52.422	40.356	36.198
96.0	71.399	68.705	58.982	46.506	41.821
96.5	77.491	74.914	65.542	52.773	47.619
97.0	83.407	81.005	72.044	59.041	53.769
97.5	89.498	87.155	78.604	65.425	59.919
98.0	95.531	93.188	84.988	71.751	66.128
98.5	101.564	99.280	91.138	78.194	72.337
99.0	107.714	105.547	97.405	84.344	78.604
99.5	113.923	111.756	103.731	90.494	84.754
100.0	120.014	118.023	110.057	96.820	90.787
100.5	126.340	124.290	116.383	103.380	96.878
101.0	132.842	130.557	122.826	109.998	103.497
101.5	139.460	136.942	129.386	116.617	110.350
102.0	145.903	143.560	135.946	123.236	117.144
102.5	152.639	150.120	142.740	129.854	123.880
103.0	159.550	156.915	149.476	136.414	130.733
103.5	166.462	163.826	156.622	143.443	137.527
104.0	173.549	170.796	163.885	150.706	144.615
104.5	180.871	178.059	171.148	158.145	151.702
105.0	188.368	185.498	178.352	165.466	158.906
105.5	196.041	193.054	185.791	172.846	166.052
106.0	203.831	200.668	193.347	180.344	173.198
106.5	211.680	208.517	201.254	187.899	180.402
107.0	220.055	216.717	209.688	195.924	188.251
107.5	228.724	225.151	218.240	204.417	196.744
108.0	237.334	233.820	226.967	213.613	205.471
108.5	246.413	242.664	235.694	222.808	214.491
109.0	255.726	251.684	244.656	232.121	223.628
109.5	265.273	261.056	254.086	241.376	232.883
110.0	275.465	270.662	263.750	250.864	242.547
110.5	285.891	280.502	273.649	261.056	252.563

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	296.434	290.811	283.899	271.658	262.637
111.5	307.211	301.412	294.325	282.435	273.005
112.0	318.398	312.307	304.692	293.212	282.903
112.5	329.644	323.494	315.177	303.931	293.388
113.0	341.417	335.033	326.247	315.001	304.341
113.5	353.541	347.098	337.961	326.950	316.114
114.0	365.842	359.399	350.378	339.660	329.175
114.5	378.552	372.109	363.030	352.897	343.057
115.0	391.438	385.170	376.150	366.252	357.114
115.5	404.909	398.349	389.622	379.547	370.996
116.0	418.498	412.055	403.562	393.546	385.112
116.5	432.848	426.112	417.971	407.896	400.165
117.0	447.784	440.462	432.497	423.359	415.686
117.5	458.795	451.650	445.792	437.592	431.442
118.0	472.853	464.711	459.440	452.294	445.441
118.5	489.194	480.291	473.380	465.941	458.034
119.0	505.185	495.637	489.194	481.404	472.033
119.5	521.351	511.979	505.946	497.102	487.730
120.0	538.044	528.906	522.756	514.263	504.306
120.5	554.619	546.068	540.094	532.479	521.995
121.0	572.015	563.581	557.548	550.637	540.796
121.5	589.236	580.918	574.944	569.028	559.188
122.0	607.393	598.607	593.336	587.478	577.638
122.5	624.965	616.179	611.493	605.636	595.093
123.0	643.122	634.922	630.236	625.550	614.422
123.5	661.865	653.665	650.151	645.465	634.336
124.0	680.608	672.994	669.479	665.379	654.836
124.5	699.351	691.737	688.808	684.708	674.751
125.0	718.094	710.480	707.551	704.037	694.080
125.5	737.423	729.809	726.880	723.366	712.823
126.0	756.166	748.552	746.795	742.695	731.566
126.5	774.909	767.295	766.709	763.195	751.480
127.0	794.238	786.624	786.624	783.695	772.566
127.5	813.567	805.367	805.367	803.610	793.652
128.0	832.310	824.110	824.696	823.524	813.567
128.5	851.053	842.267	843.439	843.439	832.896
129.0	869.796	860.425	862.182	862.767	852.810
129.5	888.539	879.168	881.511	882.682	873.310
130.0	907.282	897.911	900.839	902.597	894.982
130.5	926.025	916.068	920.754	921.925	915.482
131.0	944.768	934.225	939.497	940.668	934.225
131.5	962.340	951.797	958.240	958.240	952.383
132.0	980.497	969.369	976.397	976.983	969.954
132.5	998.069	987.526	994.555	995.140	987.526
133.0	1015.641	1005.683	1012.126	1013.298	1004.512
133.5	1033.212	1023.255	1030.284	1031.455	1022.669
134.0	1050.784	1040.241	1047.270	1049.027	1040.241
134.5	1066.598	1057.227	1063.670	1064.841	1057.227
135.0	1082.413	1073.627	1079.484	1080.656	1072.456
135.5	1097.642	1090.613	1095.299	1095.885	1087.684
136.0	1112.870	1106.428	1109.942	1111.699	1103.499
136.5	1128.685	1121.656	1124.585	1127.513	1119.899
137.0	1143.328	1136.885	1139.814	1142.157	1135.128
137.5	1157.971	1150.942	1153.871	1155.628	1148.599
138.0	1172.028	1165.000	1167.343	1168.514	1161.485
138.5	1186.086	1178.471	1180.814	1181.400	1173.785

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1199.557	1191.943	1194.286	1194.286	1186.086
139.5	1213.029	1205.414	1207.172	1206.586	1197.800
140.0	1225.915	1217.715	1220.057	1219.472	1210.686
140.5	1238.215	1229.429	1231.772	1231.186	1221.815
141.0	1250.515	1241.729	1243.486	1242.315	1232.943
141.5	1261.644	1252.858	1255.201	1253.444	1242.901
142.0	1273.358	1264.572	1266.329	1263.987	1253.444
142.5	1284.487	1275.701	1277.458	1275.115	1263.401
143.0	1295.616	1286.244	1288.001	1285.658	1273.944
143.5	1306.158	1297.373	1298.544	1296.201	1283.901
144.0	1316.116	1307.916	1308.501	1305.573	1293.273
144.5	1326.073	1317.873	1318.459	1314.944	1302.644
145.0	1335.445	1327.830	1327.830	1323.730	1311.430
145.5	1345.402	1337.787	1337.202	1333.687	1320.802
146.0	1354.773	1347.159	1346.573	1342.473	1330.173
146.5	1364.145	1356.531	1355.359	1351.845	1339.545
147.0	1372.931	1365.902	1363.559	1361.216	1348.916
147.5	1381.717	1374.688	1372.345	1370.002	1357.702
148.0	1390.502	1383.474	1379.959	1378.202	1367.073
148.5	1399.288	1392.260	1387.574	1386.402	1376.445
149.0	1407.488	1401.045	1395.188	1394.602	1385.817
149.5	1415.688	1409.245	1402.217	1402.802	1394.602
150.0	1423.888	1417.446	1409.831	1410.417	1402.802
150.5	1432.089	1425.646	1416.860	1417.446	1411.003
151.0	1439.703	1433.260	1423.888	1424.474	1418.617
151.5	1447.903	1440.874	1431.503	1431.503	1425.646
152.0	1455.517	1448.489	1438.531	1437.946	1432.674
152.5	1463.132	1455.517	1445.560	1444.974	1439.117
153.0	1470.746	1462.546	1452.589	1452.003	1444.974
153.5	1477.775	1469.575	1459.617	1459.032	1450.246
154.0	1484.803	1476.603	1467.232	1466.060	1456.103
154.5	1492.418	1483.046	1474.260	1472.503	1461.960
155.0	1499.447	1489.489	1481.289	1479.532	1468.403
155.5	1505.889	1495.346	1488.318	1486.561	1474.846
156.0	1512.332	1501.789	1495.932	1493.004	1481.289
156.5	1518.775	1508.232	1502.961	1500.032	1487.732
157.0	1525.218	1514.675	1509.989	1507.061	1494.175
157.5	1531.075	1520.532	1516.432	1513.504	1500.618
158.0	1536.933	1526.390	1522.875	1519.947	1507.061
158.5	1543.376	1532.833	1529.318	1526.390	1514.090
159.0	1548.647	1538.690	1535.176	1532.833	1520.532
159.5	1554.504	1544.547	1541.033	1539.276	1526.975
160.0	1559.776	1549.819	1546.890	1545.133	1533.418
160.5	1565.047	1555.090	1552.161	1550.990	1539.861
161.0	1570.319	1560.362	1557.433	1556.847	1546.304
161.5	1575.590	1566.219	1562.119	1562.704	1552.747
162.0	1581.447	1571.490	1566.804	1568.562	1558.604
162.5	1586.719	1576.762	1571.490	1573.833	1563.876
163.0	1591.990	1582.033	1576.176	1579.105	1569.147
163.5	1597.262	1586.719	1580.862	1584.376	1573.833
164.0	1602.533	1591.405	1584.962	1589.062	1578.519
164.5	1606.634	1596.091	1589.062	1593.748	1583.205
165.0	1611.319	1600.776	1593.162	1598.433	1587.305
165.5	1616.005	1604.876	1597.262	1602.533	1591.405
166.0	1620.691	1608.976	1601.362	1606.634	1594.919
166.5	1625.377	1613.076	1605.462	1610.148	1599.019

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1629.477	1616.591	1608.976	1613.662	1602.533
167.5	1633.577	1620.105	1613.076	1617.176	1606.634
168.0	1637.677	1623.619	1616.591	1620.691	1610.148
168.5	1641.777	1627.134	1620.105	1624.205	1614.248
169.0	1645.291	1630.062	1623.619	1627.134	1617.762
169.5	1648.220	1632.991	1626.548	1630.062	1621.277
170.0	1651.148	1635.920	1629.477	1632.991	1625.377
170.5	1654.077	1638.848	1631.820	1635.920	1628.305
171.0	1657.006	1641.191	1634.162	1638.848	1631.234
171.5	1659.348	1643.534	1636.505	1641.777	1634.162
172.0	1661.691	1645.877	1638.262	1644.120	1636.505
172.5	1664.034	1648.220	1640.020	1645.877	1638.262
173.0	1666.377	1650.563	1641.777	1648.220	1639.434
173.5	1668.134	1652.320	1643.534	1649.391	1640.605
174.0	1669.891	1654.077	1645.291	1650.563	1641.191
174.5	1671.063	1655.248	1646.463	1651.734	1641.777
175.0	1672.234	1657.006	1647.634	1652.320	1641.777
175.5	1673.406	1658.177	1649.391	1652.905	1642.363
176.0	1674.577	1659.348	1650.563	1652.905	1642.363
176.5	1675.163	1660.520	1651.148	1653.491	1642.363
177.0	1675.749	1661.691	1652.320	1653.491	1641.777
177.5	1676.920	1662.863	1653.491	1653.491	1641.777
178.0	1677.506	1662.863	1654.077	1653.491	1642.363
178.5	1677.506	1663.448	1654.663	1653.491	1642.363
179.0	1678.092	1664.034	1654.663	1653.491	1642.363
179.5	1678.677	1664.034	1655.248	1653.491	1642.363
180.0	1658.177	1658.177	1658.177	1658.177	1658.177

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	593.71	N.A.	7.00
0-30	1241.24	N.A.	14.70
0-40	1994.07	N.A.	23.70
0-60	3388.38	N.A.	40.20
0-80	4149.45	N.A.	49.30
0-90	4229.87	N.A.	50.20
10-90	4074.9	N.A.	48.40
20-40	1400.36	N.A.	16.60
20-50	2147.7	N.A.	25.50
40-70	1878.87	N.A.	22.30
60-80	761.07	N.A.	9.00
70-80	276.50	N.A.	3.30
80-90	80.42	N.A.	1.00
90-110	239.97	N.A.	2.80
90-120	616.02	N.A.	7.30
90-130	1247.95	N.A.	14.80
90-150	2902.63	N.A.	34.50
90-180	4195.08	N.A.	49.80
110-180	3955.11	N.A.	46.90
0-180	8424.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.97
10-20	438.74
20-30	647.53
30-40	752.83
40-50	747.34
50-60	646.97
60-70	484.57
70-80	276.50
80-90	80.42
90-100	51.76
100-110	188.21
110-120	376.05
120-130	631.93
130-140	826.31
140-150	828.38
150-160	684.28
160-170	450.91
170-180	157.25

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-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	47	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-L15-950U-L8-950D-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	16.2	17.1	17.2	18.1	19.3	16.1	17.0	17.1	18.0	19.2
	3H	18.0	18.8	19.0	19.7	21.0	17.9	18.7	18.9	19.7	20.9
	4H	18.6	19.3	19.6	20.3	21.6	18.5	19.3	19.5	20.2	21.5
	6H	19.0	19.7	20.0	20.7	22.0	19.0	19.7	20.0	20.7	22.0
	8H	19.2	19.8	20.2	20.8	22.1	19.1	19.8	20.1	20.8	22.1
	12H	19.2	19.9	20.2	20.9	22.2	19.2	19.8	20.2	20.8	22.2

UGR Viewed Endwise

4H	2H	16.8	17.5	17.8	18.5	19.8	16.7	17.4	17.7	18.4	19.7
	3H	18.7	19.3	19.7	20.4	21.7	18.7	19.3	19.7	20.3	21.6
	4H	19.5	20.0	20.5	21.0	22.4	19.4	20.0	20.4	21.0	22.3
	6H	20.0	20.5	21.0	21.5	22.9	20.0	20.5	21.0	21.5	22.9
	8H	20.2	20.7	21.2	21.7	23.0	20.2	20.7	21.2	21.7	23.0
	12H	20.3	20.7	21.4	21.8	23.1	20.3	20.7	21.4	21.8	23.1

8H	4H	19.7	20.2	20.7	21.2	22.5	19.7	20.1	20.7	21.1	22.5
	6H	20.4	20.8	21.4	21.8	23.2	20.4	20.8	21.4	21.8	23.2
	8H	20.7	21.0	21.7	22.0	23.4	20.7	21.0	21.7	22.1	23.4
	12H	20.9	21.1	21.9	22.2	23.6	20.9	21.2	22.0	22.2	23.6

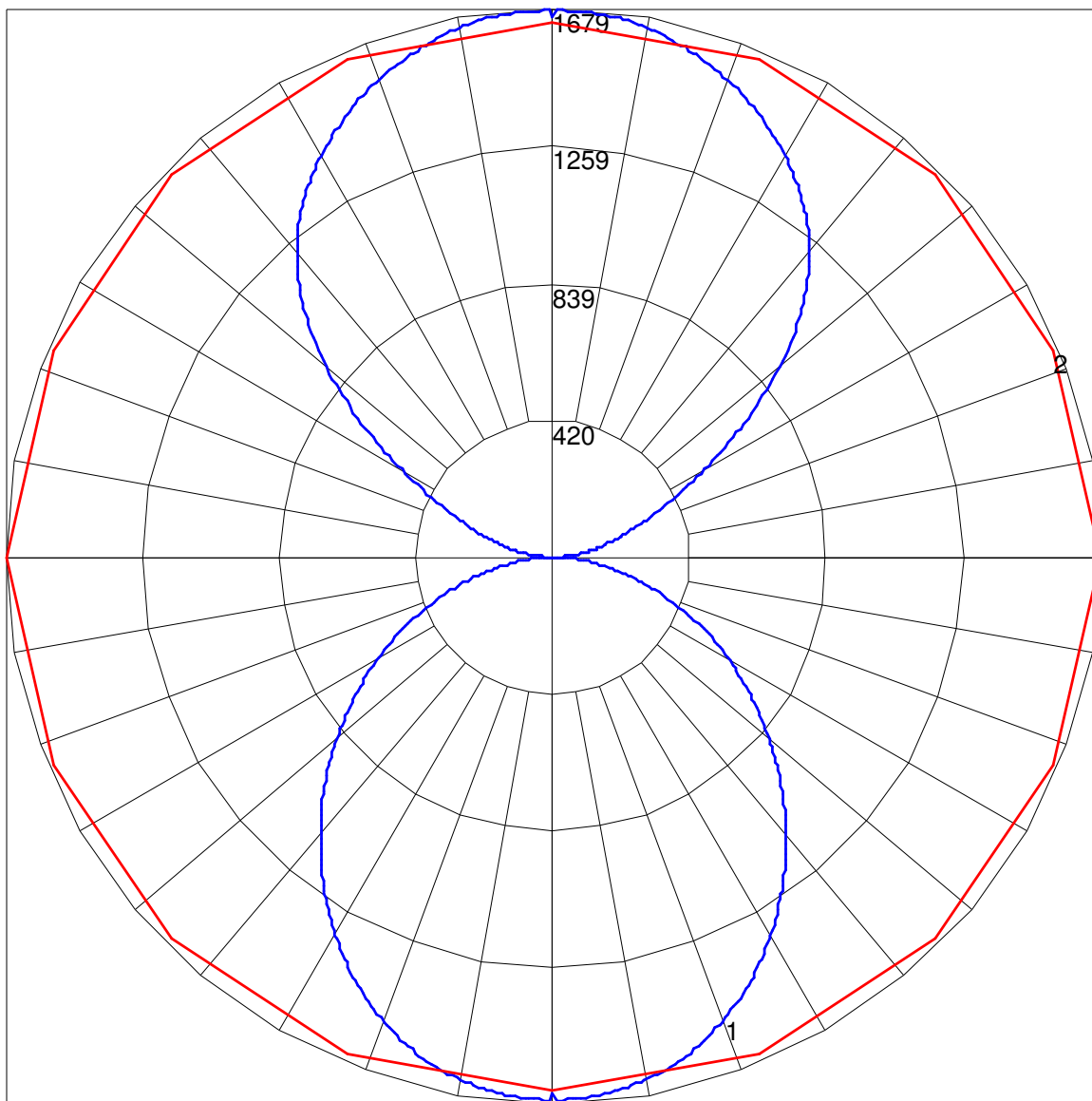
12H	4H	19.7	20.1	20.7	21.2	22.5	19.7	20.1	20.7	21.1	22.5
	6H	20.4	20.8	21.5	21.8	23.2	20.4	20.8	21.5	21.8	23.2
	8H	20.7	21.0	21.8	22.1	23.5	20.8	21.0	21.8	22.1	23.5

Maximum UGR = 23.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-950U-L8-950D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1678.677 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.)