

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-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-L12-850U-L8-850D-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	8743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	11895	11597	11465
55	10934	10669	10557
65	10085	9842	9735
75	8552	8548	8543
85	6680	6948	7149

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1725.978	1725.978	1725.978	1725.978	1725.978
0.5	1752.041	1727.426	1718.738	1722.358	1716.566
1.0	1752.041	1726.702	1718.738	1722.358	1716.566
1.5	1751.317	1725.978	1718.014	1722.358	1715.842
2.0	1750.593	1725.254	1717.290	1721.634	1715.842
2.5	1749.869	1724.530	1715.842	1720.910	1715.118
3.0	1748.421	1723.082	1715.118	1720.186	1713.670
3.5	1746.973	1721.634	1713.670	1718.738	1712.222
4.0	1745.525	1720.186	1712.222	1717.290	1710.774
4.5	1744.077	1718.014	1710.774	1715.842	1708.602
5.0	1742.629	1716.566	1708.602	1713.670	1706.430
5.5	1740.457	1714.394	1706.430	1711.498	1704.258
6.0	1738.285	1711.498	1704.258	1709.326	1701.362
6.5	1735.389	1709.326	1701.362	1706.430	1699.190
7.0	1733.217	1706.430	1699.190	1703.534	1696.294
7.5	1731.045	1703.534	1696.294	1700.638	1694.122
8.0	1727.426	1700.638	1692.674	1697.742	1691.226
8.5	1724.530	1697.018	1689.054	1694.122	1687.606
9.0	1720.910	1694.122	1686.158	1690.502	1683.987
9.5	1717.290	1690.502	1681.815	1686.158	1680.367
10.0	1713.670	1686.882	1678.195	1682.539	1676.023
10.5	1709.326	1682.539	1673.851	1678.195	1672.403
11.0	1705.706	1678.195	1669.507	1673.851	1667.335
11.5	1700.638	1673.851	1665.163	1669.507	1662.991
12.0	1696.294	1669.507	1660.819	1664.439	1657.923
12.5	1691.950	1664.439	1655.751	1659.371	1652.855
13.0	1686.882	1660.095	1650.683	1654.303	1647.787
13.5	1681.815	1654.303	1645.615	1648.511	1642.719
14.0	1676.747	1649.235	1639.823	1643.443	1637.652
14.5	1671.679	1644.167	1634.032	1637.652	1631.860
15.0	1666.611	1638.376	1628.240	1631.860	1626.068
15.5	1660.095	1633.308	1622.448	1625.344	1619.552
16.0	1652.855	1627.516	1615.932	1619.552	1613.760
16.5	1645.615	1621.000	1609.416	1613.036	1607.244
17.0	1639.100	1614.484	1602.900	1606.520	1600.728
17.5	1631.860	1607.244	1595.660	1599.280	1593.489
18.0	1624.620	1600.004	1588.421	1592.041	1586.249
18.5	1617.380	1592.765	1581.181	1584.077	1579.009
19.0	1610.140	1585.525	1574.665	1576.837	1570.321
19.5	1602.176	1578.285	1567.425	1568.149	1561.633
20.0	1594.936	1570.321	1560.909	1560.185	1552.945
20.5	1586.973	1563.081	1553.669	1551.497	1544.258
21.0	1579.009	1555.117	1545.706	1542.810	1534.846
21.5	1570.321	1547.154	1537.018	1534.122	1525.434
22.0	1562.357	1538.466	1527.606	1524.710	1516.746
22.5	1553.669	1529.778	1518.918	1515.298	1507.334
23.0	1544.982	1521.090	1510.230	1505.162	1497.923
23.5	1536.294	1512.402	1500.819	1495.751	1489.235
24.0	1526.882	1503.715	1492.131	1486.339	1479.823
24.5	1517.470	1494.303	1482.719	1476.927	1470.411
25.0	1508.782	1484.891	1473.307	1467.515	1460.999
25.5	1499.371	1475.479	1463.171	1458.104	1450.864
26.0	1489.235	1465.343	1453.760	1448.692	1441.452
26.5	1479.823	1455.932	1443.624	1439.280	1432.040

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27.0	1469.687	1445.796	1433.488	1429.868	1421.904
27.5	1459.552	1435.660	1424.076	1420.456	1412.493
28.0	1449.416	1424.800	1413.217	1410.321	1402.357
28.5	1438.556	1413.941	1403.081	1400.909	1392.221
29.0	1427.696	1403.805	1392.945	1390.773	1382.085
29.5	1417.560	1392.945	1382.809	1379.913	1372.673
30.0	1406.701	1382.085	1372.673	1369.778	1362.538
30.5	1395.841	1371.225	1361.814	1359.642	1352.402
31.0	1384.257	1361.090	1350.954	1348.782	1342.266
31.5	1373.397	1350.230	1340.094	1337.922	1331.406
32.0	1361.814	1338.646	1329.234	1326.338	1320.547
32.5	1350.230	1327.786	1318.375	1315.479	1308.963
33.0	1338.646	1316.927	1307.515	1304.619	1297.379
33.5	1327.786	1305.343	1295.931	1293.035	1286.519
34.0	1315.479	1293.759	1285.071	1281.451	1274.936
34.5	1303.895	1282.175	1272.764	1269.868	1262.628
35.0	1292.311	1271.316	1261.180	1258.284	1250.320
35.5	1280.003	1259.008	1249.596	1246.700	1238.012
36.0	1267.696	1247.424	1238.012	1234.393	1226.429
36.5	1256.112	1235.840	1226.429	1222.809	1214.845
37.0	1243.804	1223.533	1214.121	1210.501	1202.537
37.5	1231.497	1211.225	1202.537	1198.193	1190.953
38.0	1218.465	1198.917	1190.229	1185.886	1178.646
38.5	1206.157	1186.610	1177.922	1174.302	1166.338
39.0	1194.573	1174.302	1165.614	1161.994	1154.754
39.5	1181.542	1161.994	1154.030	1149.686	1141.723
40.0	1169.234	1148.962	1141.723	1137.379	1130.139
40.5	1156.202	1136.655	1129.415	1125.071	1117.831
41.0	1143.895	1123.623	1117.107	1112.039	1104.799
41.5	1130.863	1111.315	1104.075	1099.732	1091.768
42.0	1118.555	1098.284	1091.768	1087.424	1079.460
42.5	1106.247	1085.976	1079.460	1074.392	1067.152
43.0	1093.216	1073.668	1067.152	1062.084	1054.121
43.5	1080.908	1060.636	1054.121	1049.777	1041.813
44.0	1067.876	1047.605	1041.089	1036.745	1029.505
44.5	1054.845	1034.573	1028.057	1023.713	1016.473
45.0	1041.813	1022.265	1015.749	1010.681	1004.166
45.5	1029.505	1009.234	1002.718	998.374	991.858
46.0	1016.473	996.202	989.686	985.342	979.550
46.5	1003.442	983.170	977.378	973.034	967.242
47.0	990.410	970.138	964.347	960.003	954.211
47.5	976.654	957.107	951.315	946.971	941.903
48.0	963.623	944.075	938.283	934.663	928.871
48.5	950.591	931.043	925.975	921.631	915.840
49.0	936.835	918.012	912.944	908.600	903.532
49.5	923.803	904.980	899.912	896.292	891.224
50.0	910.048	891.948	886.880	883.260	878.192
50.5	896.292	878.916	873.849	870.229	865.885
51.0	882.536	865.885	860.817	857.197	852.853
51.5	869.505	852.853	847.785	844.889	839.821
52.0	856.473	839.821	834.753	831.857	827.514
52.5	842.717	826.790	821.722	819.550	814.482
53.0	829.686	813.758	808.690	806.518	801.450
53.5	815.930	800.726	795.658	793.486	788.418
54.0	802.898	787.694	783.351	781.179	775.387
54.5	789.866	775.387	770.319	768.147	762.355

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55.0	776.835	763.079	758.011	755.839	750.047
55.5	764.527	750.047	744.979	742.807	737.740
56.0	750.771	737.016	731.948	730.500	724.708
56.5	737.740	724.708	719.278	717.685	711.966
57.0	725.432	711.676	706.463	704.726	699.296
57.5	712.690	699.079	693.721	692.129	686.482
58.0	699.948	686.626	680.907	679.459	673.812
58.5	687.133	674.101	668.309	667.006	661.649
59.0	674.536	661.504	655.640	654.409	649.269
59.5	662.300	648.762	642.753	641.884	637.033
60.0	649.776	636.092	630.011	629.287	624.581
60.5	637.395	623.712	617.703	616.617	611.984
61.0	625.232	611.332	605.468	604.237	599.676
61.5	612.201	599.097	593.305	591.929	587.513
62.0	599.386	586.499	580.707	579.694	575.060
62.5	586.282	574.843	568.834	568.038	563.259
63.0	573.685	564.563	559.712	559.350	555.440
63.5	560.943	553.341	549.504	548.707	544.653
64.0	553.269	542.409	538.934	537.341	532.707
64.5	541.323	530.753	526.988	525.540	521.196
65.0	527.929	518.300	515.187	513.811	509.612
65.5	514.246	505.703	502.879	502.228	497.956
66.0	501.069	493.395	490.861	490.571	486.010
66.5	488.038	480.798	478.626	478.626	474.571
67.0	475.151	468.273	466.535	466.752	463.060
67.5	462.481	455.965	454.372	454.807	451.187
68.0	449.666	443.657	442.209	442.789	439.024
68.5	436.779	431.132	429.974	430.770	427.078
69.0	423.458	418.535	417.666	418.101	414.698
69.5	410.499	406.155	405.141	405.648	402.535
70.0	397.684	393.630	392.906	393.123	390.372
70.5	385.087	381.033	380.526	380.743	378.137
71.0	372.200	368.508	368.363	368.653	365.829
71.5	359.313	355.983	356.272	356.490	354.028
72.0	346.788	343.386	343.965	344.254	342.155
72.5	334.263	331.005	331.947	332.236	330.499
73.0	321.883	318.915	320.218	320.580	319.060
73.5	309.865	306.969	308.490	309.141	307.476
74.0	297.992	295.023	296.906	297.413	296.327
74.5	286.118	283.295	285.394	285.901	285.105
75.0	274.173	271.639	274.028	274.535	273.883
75.5	262.372	259.983	262.734	263.385	262.661
76.0	250.426	248.761	251.584	252.308	251.729
76.5	239.132	237.684	240.507	241.304	240.797
77.0	228.127	226.535	229.648	230.372	229.575
77.5	216.761	215.675	218.788	219.367	218.571
78.0	205.684	204.815	207.928	208.797	208.001
78.5	194.679	194.245	197.213	198.227	197.575
79.0	184.109	183.675	186.715	187.946	187.439
79.5	173.539	173.322	176.362	177.666	177.231
80.0	163.114	163.186	166.010	167.819	167.240
80.5	152.616	153.267	156.163	157.901	157.467
81.0	142.552	143.566	146.390	148.199	147.910
81.5	132.851	133.937	136.833	138.643	138.426
82.0	123.801	124.525	127.494	129.376	129.159
82.5	114.751	115.403	118.299	120.181	120.036

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83.0	105.702	106.715	109.249	111.204	111.349
83.5	96.797	98.027	100.489	102.371	102.806
84.0	88.471	89.484	91.801	93.611	94.263
84.5	80.000	81.086	83.258	85.068	85.720
85.0	72.109	72.978	75.005	76.597	77.177
85.5	64.435	64.869	66.607	68.272	68.851
86.0	56.905	57.050	58.570	60.091	60.815
86.5	49.448	49.448	50.824	52.199	52.851
87.0	41.919	41.919	42.932	44.670	45.177
87.5	34.462	34.534	35.475	37.213	37.864
88.0	27.367	27.294	28.235	30.118	30.842
88.5	20.561	20.127	21.358	23.023	24.036
89.0	13.321	13.104	14.769	16.362	17.448
89.5	6.154	7.312	8.833	10.063	10.425
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.441	2.341	2.161	2.101	2.281
91.0	9.783	5.161	4.201	4.141	4.081
91.5	15.724	10.503	6.242	6.182	6.122
92.0	21.726	17.465	9.002	8.042	8.042
92.5	27.967	24.666	13.924	10.083	9.903
93.0	34.449	31.568	19.685	13.384	12.063
93.5	40.991	38.170	25.867	18.065	15.724
94.0	47.412	44.652	32.709	23.646	20.705
94.5	54.014	51.133	39.850	29.408	26.107
95.0	60.496	57.795	46.872	35.289	31.448
95.5	66.978	64.037	53.714	41.351	37.090
96.0	73.159	70.398	60.436	47.652	42.851
96.5	79.401	76.760	67.158	54.074	48.793
97.0	85.462	83.002	73.819	60.496	55.094
97.5	91.704	89.303	80.541	67.038	61.396
98.0	97.886	95.485	87.083	73.519	67.758
98.5	104.067	101.727	93.384	80.121	74.119
99.0	110.369	108.148	99.806	86.423	80.541
99.5	116.731	114.510	106.288	92.724	86.843
100.0	122.972	120.932	112.770	99.206	93.024
100.5	129.454	127.353	119.251	105.928	99.266
101.0	136.116	133.775	125.853	112.710	106.048
101.5	142.897	140.317	132.575	119.491	113.070
102.0	149.499	147.099	139.297	126.273	120.031
102.5	156.401	153.820	146.258	133.055	126.933
103.0	163.483	160.782	153.160	139.777	133.955
103.5	170.565	167.864	160.482	146.979	140.917
104.0	177.827	175.006	167.924	154.420	148.179
104.5	185.329	182.448	175.366	162.042	155.441
105.0	193.011	190.070	182.748	169.544	162.823
105.5	200.873	197.812	190.370	177.106	170.145
106.0	208.855	205.614	198.112	184.788	177.467
106.5	216.897	213.656	206.214	192.530	184.848
107.0	225.479	222.058	214.856	200.753	192.891
107.5	234.361	230.700	223.619	209.455	201.593
108.0	243.184	239.583	232.561	218.877	210.535
108.5	252.486	248.645	241.503	228.300	219.778
109.0	262.029	257.888	250.686	237.842	229.140
109.5	271.811	267.490	260.348	247.325	238.623
110.0	282.254	277.333	270.251	257.047	248.525
110.5	292.937	287.415	280.393	267.490	258.788

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111.0	303.740	297.978	290.896	278.353	269.111
111.5	314.783	308.841	301.579	289.396	279.733
112.0	326.246	320.004	312.202	300.439	289.876
112.5	337.769	331.467	322.945	311.422	300.619
113.0	349.832	343.290	334.288	322.765	311.842
113.5	362.255	355.653	346.291	335.008	323.905
114.0	374.858	368.257	359.014	348.031	337.288
114.5	387.882	381.280	371.977	361.595	351.512
115.0	401.085	394.663	385.421	375.278	365.916
115.5	414.889	408.167	399.225	388.902	380.140
116.0	428.812	422.211	413.508	403.246	394.603
116.5	443.516	436.614	428.272	417.950	410.027
117.0	458.820	451.318	443.156	433.794	425.932
117.5	470.103	462.781	456.780	448.378	442.076
118.0	484.507	476.165	470.763	463.441	456.420
118.5	501.251	492.129	485.047	477.425	469.323
119.0	517.636	507.853	501.251	493.269	483.667
119.5	534.200	524.598	518.416	509.354	499.751
120.0	551.305	541.942	535.640	526.938	516.735
120.5	568.289	559.527	553.405	545.603	534.860
121.0	586.114	577.471	571.290	564.208	554.125
121.5	603.758	595.236	589.114	583.053	572.970
122.0	622.363	613.361	607.959	601.958	591.875
122.5	640.368	631.365	626.564	620.563	609.760
123.0	658.973	650.571	645.769	640.968	629.565
123.5	678.178	669.776	666.175	661.373	649.970
124.0	697.383	689.581	685.980	681.779	670.976
124.5	716.588	708.786	705.785	701.584	691.381
125.0	735.793	727.991	724.990	721.389	711.186
125.5	755.598	747.796	744.795	741.194	730.391
126.0	774.803	767.001	765.201	760.999	749.596
126.5	794.008	786.206	785.606	782.005	770.002
127.0	813.813	806.011	806.011	803.010	791.607
127.5	833.618	825.216	825.216	823.416	813.213
128.0	852.824	844.421	845.021	843.821	833.618
128.5	872.029	863.026	864.227	864.227	853.424
129.0	891.234	881.631	883.432	884.032	873.829
129.5	910.439	900.836	903.237	904.437	894.835
130.0	929.644	920.041	923.042	924.842	917.040
130.5	948.849	938.646	943.447	944.648	938.046
131.0	968.054	957.251	962.652	963.853	957.251
131.5	986.058	975.256	981.857	981.857	975.856
132.0	1004.663	993.260	1000.462	1001.062	993.860
132.5	1022.668	1011.865	1019.067	1019.667	1011.865
133.0	1040.673	1030.470	1037.072	1038.272	1029.270
133.5	1058.677	1048.475	1055.677	1056.877	1047.875
134.0	1076.682	1065.879	1073.081	1074.882	1065.879
134.5	1092.886	1083.284	1089.886	1091.086	1083.284
135.0	1109.091	1100.088	1106.090	1107.290	1098.888
135.5	1124.695	1117.493	1122.294	1122.894	1114.492
136.0	1140.299	1133.697	1137.298	1139.099	1130.696
136.5	1156.503	1149.301	1152.302	1155.303	1147.501
137.0	1171.507	1164.905	1167.906	1170.307	1163.105
137.5	1186.511	1179.309	1182.310	1184.110	1176.908
138.0	1200.915	1193.713	1196.114	1197.314	1190.112
138.5	1215.319	1207.517	1209.917	1210.517	1202.715

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1229.122	1221.320	1223.721	1223.721	1215.319
139.5	1242.926	1235.124	1236.924	1236.324	1227.322
140.0	1256.129	1247.727	1250.128	1249.528	1240.525
140.5	1268.733	1259.730	1262.131	1261.531	1251.928
141.0	1281.336	1272.333	1274.134	1272.934	1263.331
141.5	1292.739	1283.736	1286.137	1284.337	1273.534
142.0	1304.742	1295.740	1297.540	1295.139	1284.337
142.5	1316.145	1307.143	1308.943	1306.542	1294.539
143.0	1327.548	1317.945	1319.746	1317.345	1305.342
143.5	1338.351	1329.348	1330.549	1328.148	1315.545
144.0	1348.553	1340.151	1340.751	1337.751	1325.147
144.5	1358.756	1350.354	1350.954	1347.353	1334.750
145.0	1368.359	1360.557	1360.557	1356.356	1343.752
145.5	1378.561	1370.759	1370.159	1366.558	1353.355
146.0	1388.164	1380.362	1379.762	1375.561	1362.957
146.5	1397.766	1389.964	1388.764	1385.163	1372.560
147.0	1406.769	1399.567	1397.166	1394.766	1382.162
147.5	1415.771	1408.569	1406.169	1403.768	1391.165
148.0	1424.773	1417.572	1413.971	1412.170	1400.767
148.5	1433.776	1426.574	1421.773	1420.572	1410.370
149.0	1442.178	1435.576	1429.575	1428.975	1419.972
149.5	1450.580	1443.978	1436.777	1437.377	1428.975
150.0	1458.982	1452.381	1444.579	1445.179	1437.377
150.5	1467.385	1460.783	1451.781	1452.381	1445.779
151.0	1475.187	1468.585	1458.982	1459.583	1453.581
151.5	1483.589	1476.387	1466.784	1466.784	1460.783
152.0	1491.391	1484.189	1473.986	1473.386	1467.985
152.5	1499.193	1491.391	1481.188	1480.588	1474.587
153.0	1506.995	1498.593	1488.390	1487.790	1480.588
153.5	1514.197	1505.795	1495.592	1494.992	1485.989
154.0	1521.399	1512.997	1503.394	1502.194	1491.991
154.5	1529.201	1519.598	1510.596	1508.795	1497.993
155.0	1536.403	1526.200	1517.798	1515.997	1504.594
155.5	1543.004	1532.202	1525.000	1523.199	1511.196
156.0	1549.606	1538.803	1532.802	1529.801	1517.798
156.5	1556.208	1545.405	1540.004	1537.003	1524.400
157.0	1562.810	1552.007	1547.206	1544.205	1531.001
157.5	1568.811	1558.008	1553.807	1550.806	1537.603
158.0	1574.813	1564.010	1560.409	1557.408	1544.205
158.5	1581.415	1570.612	1567.011	1564.010	1551.407
159.0	1586.816	1576.613	1573.012	1570.612	1558.008
159.5	1592.817	1582.615	1579.014	1577.213	1564.610
160.0	1598.219	1588.016	1585.015	1583.215	1571.212
160.5	1603.620	1593.418	1590.417	1589.217	1577.814
161.0	1609.022	1598.819	1595.818	1595.218	1584.415
161.5	1614.423	1604.821	1600.620	1601.220	1591.017
162.0	1620.425	1610.222	1605.421	1607.221	1597.019
162.5	1625.826	1615.623	1610.222	1612.623	1602.420
163.0	1631.228	1621.025	1615.023	1618.024	1607.821
163.5	1636.629	1625.826	1619.825	1623.426	1612.623
164.0	1642.030	1630.627	1624.026	1628.227	1617.424
164.5	1646.231	1635.429	1628.227	1633.028	1622.225
165.0	1651.033	1640.230	1632.428	1637.829	1626.426
165.5	1655.834	1644.431	1636.629	1642.030	1630.627
166.0	1660.635	1648.632	1640.830	1646.231	1634.228
166.5	1665.437	1652.833	1645.031	1649.832	1638.429

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1669.638	1656.434	1648.632	1653.433	1642.030
167.5	1673.839	1660.035	1652.833	1657.034	1646.231
168.0	1678.040	1663.636	1656.434	1660.635	1649.832
168.5	1682.241	1667.237	1660.035	1664.236	1654.034
169.0	1685.842	1670.238	1663.636	1667.237	1657.634
169.5	1688.843	1673.239	1666.637	1670.238	1661.235
170.0	1691.843	1676.239	1669.638	1673.239	1665.437
170.5	1694.844	1679.240	1672.038	1676.239	1668.437
171.0	1697.845	1681.641	1674.439	1679.240	1671.438
171.5	1700.246	1684.041	1676.840	1682.241	1674.439
172.0	1702.646	1686.442	1678.640	1684.642	1676.840
172.5	1705.047	1688.843	1680.440	1686.442	1678.640
173.0	1707.448	1691.243	1682.241	1688.843	1679.840
173.5	1709.248	1693.044	1684.041	1690.043	1681.041
174.0	1711.048	1694.844	1685.842	1691.243	1681.641
174.5	1712.249	1696.045	1687.042	1692.444	1682.241
175.0	1713.449	1697.845	1688.243	1693.044	1682.241
175.5	1714.649	1699.045	1690.043	1693.644	1682.841
176.0	1715.850	1700.246	1691.243	1693.644	1682.841
176.5	1716.450	1701.446	1691.843	1694.244	1682.841
177.0	1717.050	1702.646	1693.044	1694.244	1682.241
177.5	1718.250	1703.847	1694.244	1694.244	1682.241
178.0	1718.851	1703.847	1694.844	1694.244	1682.841
178.5	1718.851	1704.447	1695.444	1694.244	1682.841
179.0	1719.451	1705.047	1695.444	1694.244	1682.841
179.5	1720.051	1705.047	1696.045	1694.244	1682.841
180.0	1699.045	1699.045	1699.045	1699.045	1699.045

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	623.78	N.A.	7.10
0-30	1304.11	N.A.	14.90
0-40	2095.07	N.A.	24.00
0-60	3559.99	N.A.	40.70
0-80	4359.61	N.A.	49.90
0-90	4444.1	N.A.	50.80
10-90	4281.28	N.A.	49.00
20-40	1471.29	N.A.	16.80
20-50	2256.47	N.A.	25.80
40-70	1974.03	N.A.	22.60
60-80	799.62	N.A.	9.10
70-80	290.51	N.A.	3.30
80-90	84.49	N.A.	1.00
90-110	245.88	N.A.	2.80
90-120	631.20	N.A.	7.20
90-130	1278.71	N.A.	14.60
90-150	2974.17	N.A.	34.00
90-180	4298.47	N.A.	49.20
110-180	4052.59	N.A.	46.40
0-180	8742.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.82
10-20	460.96
20-30	680.33
30-40	790.96
40-50	785.19
50-60	679.74
60-70	509.11
70-80	290.51
80-90	84.49
90-100	53.03
100-110	192.85
110-120	385.32
120-130	647.51
130-140	846.67
140-150	848.79
150-160	701.14
160-170	462.03
170-180	161.12

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-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-L12-850U-L8-850D-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	16.4	17.3	17.4	18.3	19.5	16.3	17.2	17.3	18.2	19.4
	3H	18.2	19.0	19.2	20.0	21.2	18.1	18.9	19.1	19.9	21.1
	4H	18.8	19.6	19.8	20.5	21.8	18.7	19.5	19.7	20.5	21.7
	6H	19.2	19.9	20.2	20.9	22.2	19.2	19.9	20.2	20.9	22.2
	8H	19.4	20.0	20.4	21.0	22.3	19.3	20.0	20.3	21.0	22.3
	12H	19.5	20.1	20.5	21.1	22.4	19.4	20.1	20.4	21.1	22.4

UGR Viewed Endwise

4H	2H	17.0	17.7	17.9	18.7	20.0	16.9	17.6	17.9	18.6	19.9
	3H	18.9	19.6	19.9	20.6	21.9	18.9	19.5	19.9	20.5	21.8
	4H	19.7	20.2	20.7	21.2	22.6	19.6	20.2	20.6	21.2	22.5
	6H	20.2	20.7	21.2	21.7	23.1	20.2	20.7	21.2	21.7	23.0
	8H	20.4	20.9	21.4	21.9	23.2	20.4	20.9	21.4	21.9	23.2
	12H	20.5	20.9	21.5	22.0	23.3	20.5	21.0	21.6	22.0	23.3

8H	4H	19.9	20.4	20.9	21.4	22.7	19.9	20.3	20.9	21.3	22.7
	6H	20.6	21.0	21.6	22.0	23.4	20.6	21.0	21.6	22.0	23.4
	8H	20.9	21.2	21.9	22.2	23.6	20.9	21.2	21.9	22.3	23.6
	12H	21.1	21.4	22.1	22.4	23.8	21.1	21.4	22.1	22.4	23.8

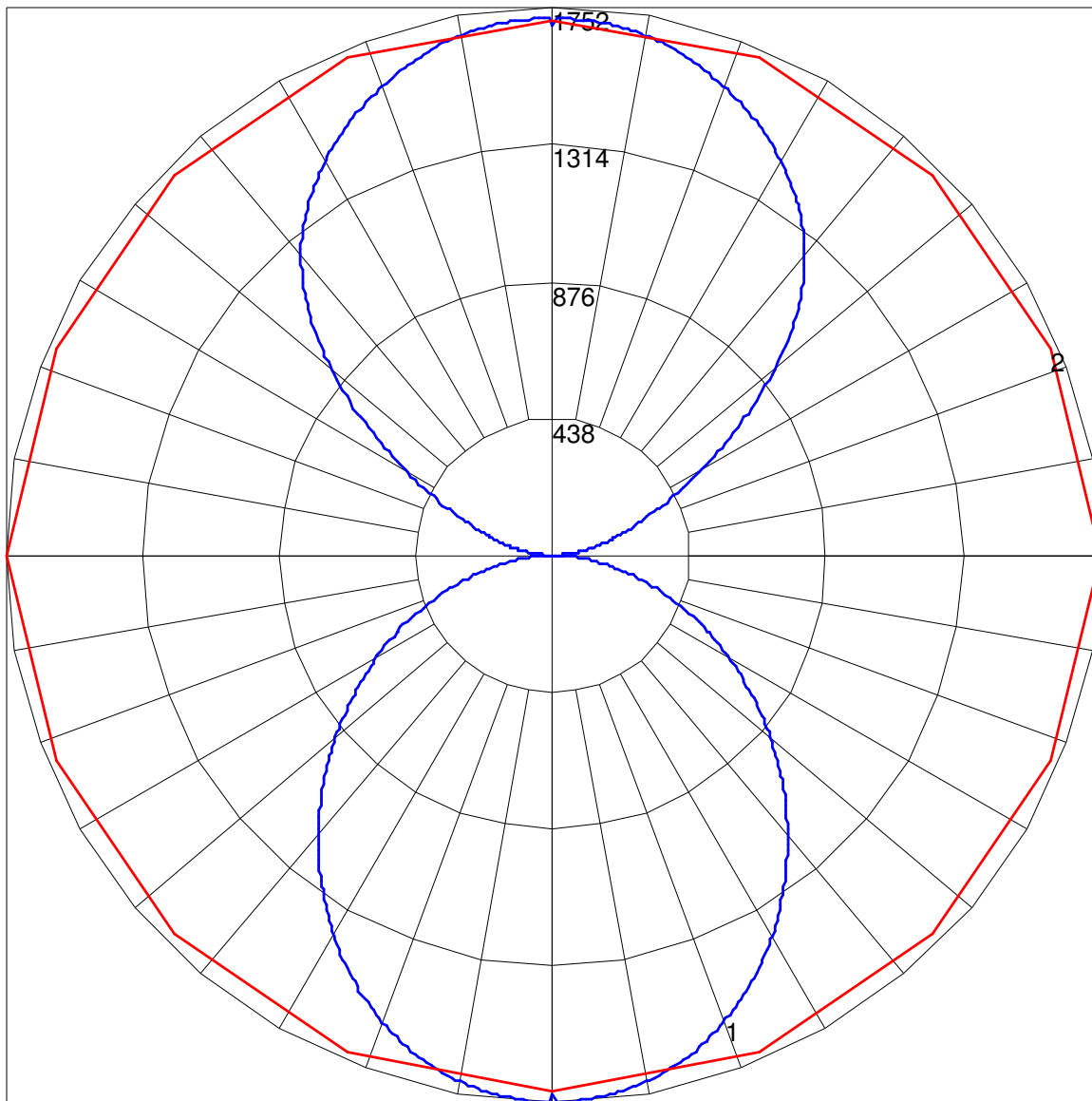
12H	4H	19.9	20.3	20.9	21.4	22.7	19.9	20.3	20.9	21.3	22.7
	6H	20.7	21.0	21.7	22.0	23.4	20.6	21.0	21.7	22.0	23.4
	8H	20.9	21.2	22.0	22.3	23.7	21.0	21.3	22.0	22.3	23.7

Maximum UGR = 23.8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L8-850D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1752.041 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.)