

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-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-L12-835U-L15-835D-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	11008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	91.8
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	14977	14602	14436
55	13767	13434	13293
65	12698	12392	12258
75	10768	10762	10757
85	8410	8748	9001

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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>	2173.147	2173.147	2173.147	2173.147	2173.147
<b>0.5</b>	2205.963	2174.970	2164.032	2168.590	2161.297
<b>1.0</b>	2205.963	2174.059	2164.032	2168.590	2161.297
<b>1.5</b>	2205.052	2173.147	2163.120	2168.590	2160.386
<b>2.0</b>	2204.140	2172.236	2162.209	2167.678	2160.386
<b>2.5</b>	2203.229	2171.324	2160.386	2166.766	2159.474
<b>3.0</b>	2201.406	2169.501	2159.474	2165.855	2157.651
<b>3.5</b>	2199.582	2167.678	2157.651	2164.032	2155.828
<b>4.0</b>	2197.759	2165.855	2155.828	2162.209	2154.005
<b>4.5</b>	2195.936	2163.120	2154.005	2160.386	2151.270
<b>5.0</b>	2194.113	2161.297	2151.270	2157.651	2148.535
<b>5.5</b>	2191.378	2158.562	2148.535	2154.916	2145.801
<b>6.0</b>	2188.644	2154.916	2145.801	2152.182	2142.154
<b>6.5</b>	2184.998	2152.182	2142.154	2148.535	2139.420
<b>7.0</b>	2182.263	2148.535	2139.420	2144.889	2135.774
<b>7.5</b>	2179.528	2144.889	2135.774	2141.243	2133.039
<b>8.0</b>	2174.970	2141.243	2131.216	2137.597	2129.393
<b>8.5</b>	2171.324	2136.685	2126.658	2133.039	2124.835
<b>9.0</b>	2166.766	2133.039	2123.012	2128.481	2120.277
<b>9.5</b>	2162.209	2128.481	2117.542	2123.012	2115.719
<b>10.0</b>	2157.651	2123.923	2112.985	2118.454	2110.250
<b>10.5</b>	2152.182	2118.454	2107.515	2112.985	2105.692
<b>11.0</b>	2147.624	2112.985	2102.046	2107.515	2099.311
<b>11.5</b>	2141.243	2107.515	2096.577	2102.046	2093.842
<b>12.0</b>	2135.774	2102.046	2091.107	2095.665	2087.461
<b>12.5</b>	2130.304	2095.665	2084.726	2089.284	2081.080
<b>13.0</b>	2123.923	2090.196	2078.346	2082.903	2074.699
<b>13.5</b>	2117.542	2082.903	2071.965	2075.611	2068.318
<b>14.0</b>	2111.162	2076.522	2064.672	2069.230	2061.938
<b>14.5</b>	2104.781	2070.142	2057.380	2061.938	2054.645
<b>15.0</b>	2098.400	2062.849	2050.087	2054.645	2047.353
<b>15.5</b>	2090.196	2056.468	2042.795	2046.441	2039.149
<b>16.0</b>	2081.080	2049.176	2034.591	2039.149	2031.856
<b>16.5</b>	2071.965	2040.972	2026.387	2030.945	2023.652
<b>17.0</b>	2063.761	2032.768	2018.183	2022.741	2015.448
<b>17.5</b>	2054.645	2023.652	2009.067	2013.625	2006.333
<b>18.0</b>	2045.530	2014.537	1999.952	2004.510	1997.217
<b>18.5</b>	2036.414	2005.421	1990.836	1994.483	1988.102
<b>19.0</b>	2027.299	1996.306	1982.632	1985.367	1977.163
<b>19.5</b>	2017.271	1987.190	1973.517	1974.428	1966.224
<b>20.0</b>	2008.156	1977.163	1965.313	1964.401	1955.286
<b>20.5</b>	1998.129	1968.047	1956.197	1953.463	1944.347
<b>21.0</b>	1988.102	1958.020	1946.170	1942.524	1932.497
<b>21.5</b>	1977.163	1947.993	1935.231	1931.585	1920.647
<b>22.0</b>	1967.136	1937.055	1923.381	1919.735	1909.708
<b>22.5</b>	1956.197	1926.116	1912.443	1907.885	1897.858
<b>23.0</b>	1945.259	1915.177	1901.504	1895.123	1886.007
<b>23.5</b>	1934.320	1904.239	1889.654	1883.273	1875.069
<b>24.0</b>	1922.470	1893.300	1878.715	1871.423	1863.219
<b>24.5</b>	1910.619	1881.450	1866.865	1859.572	1851.368
<b>25.0</b>	1899.681	1869.599	1855.015	1847.722	1839.518
<b>25.5</b>	1887.831	1857.749	1842.253	1835.872	1826.756
<b>26.0</b>	1875.069	1844.987	1830.403	1824.022	1814.906
<b>26.5</b>	1863.219	1833.137	1817.641	1812.172	1803.056

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27.0	1850.457	1820.376	1804.879	1800.321	1790.294
27.5	1837.695	1807.614	1793.029	1788.471	1778.444
28.0	1824.933	1793.940	1779.356	1775.709	1765.682
28.5	1811.260	1780.267	1766.594	1763.859	1752.920
29.0	1797.587	1767.505	1753.832	1751.097	1740.159
29.5	1784.825	1753.832	1741.070	1737.424	1728.308
30.0	1771.152	1740.159	1728.308	1724.662	1715.547
30.5	1757.478	1726.485	1714.635	1711.900	1702.785
31.0	1742.893	1713.724	1700.962	1698.227	1690.023
31.5	1729.220	1700.050	1687.288	1684.554	1676.350
32.0	1714.635	1685.465	1673.615	1669.969	1662.676
32.5	1700.050	1671.792	1659.942	1656.296	1648.092
33.0	1685.465	1658.119	1646.268	1642.622	1633.507
33.5	1671.792	1643.534	1631.684	1628.037	1619.833
34.0	1656.296	1628.949	1618.010	1613.453	1605.249
34.5	1641.711	1614.364	1602.514	1598.868	1589.752
35.0	1627.126	1600.691	1587.929	1584.283	1574.256
35.5	1611.629	1585.194	1573.344	1569.698	1558.759
36.0	1596.133	1570.609	1558.759	1554.201	1544.174
36.5	1581.548	1556.025	1544.174	1539.617	1529.589
37.0	1566.052	1540.528	1528.678	1524.120	1514.093
37.5	1550.555	1525.032	1514.093	1508.624	1499.508
38.0	1534.147	1509.535	1498.597	1493.127	1484.012
38.5	1518.651	1494.039	1483.100	1478.542	1468.515
39.0	1504.066	1478.542	1467.604	1463.046	1453.930
39.5	1487.658	1463.046	1453.019	1447.549	1437.522
40.0	1472.161	1446.638	1437.522	1432.053	1422.937
40.5	1455.753	1431.141	1422.026	1416.557	1407.441
41.0	1440.257	1414.733	1406.529	1400.149	1391.033
41.5	1423.849	1399.237	1390.122	1384.652	1374.625
42.0	1408.353	1382.829	1374.625	1369.156	1359.129
42.5	1392.856	1367.333	1359.129	1352.748	1343.632
43.0	1376.448	1351.836	1343.632	1337.251	1327.224
43.5	1360.952	1335.428	1327.224	1321.755	1311.728
44.0	1344.544	1319.020	1310.816	1305.347	1296.231
44.5	1328.136	1302.612	1294.408	1288.939	1279.823
45.0	1311.728	1287.116	1278.912	1272.531	1264.327
45.5	1296.231	1270.708	1262.504	1257.034	1248.830
46.0	1279.823	1254.300	1246.096	1240.626	1233.334
46.5	1263.415	1237.892	1230.599	1225.130	1217.838
47.0	1247.007	1221.484	1214.191	1208.722	1201.430
47.5	1229.688	1205.076	1197.783	1192.314	1185.933
48.0	1213.280	1188.668	1181.375	1176.818	1169.525
48.5	1196.872	1172.260	1165.879	1160.410	1153.117
49.0	1179.552	1155.852	1149.471	1144.002	1137.621
49.5	1163.144	1139.444	1133.063	1128.505	1122.124
50.0	1145.825	1123.036	1116.655	1112.097	1105.716
50.5	1128.505	1106.628	1100.247	1095.689	1090.220
51.0	1111.186	1090.220	1083.839	1079.281	1073.812
51.5	1094.778	1073.812	1067.431	1063.785	1057.404
52.0	1078.370	1057.404	1051.023	1047.377	1041.907
52.5	1061.050	1040.996	1034.615	1031.880	1025.499
53.0	1044.642	1024.588	1018.207	1015.472	1009.091
53.5	1027.323	1008.180	1001.799	999.064	992.683
54.0	1010.915	991.772	986.303	983.568	976.275
54.5	994.507	976.275	969.895	967.160	959.868

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55.0	978.099	960.779	954.398	951.664	944.371
55.5	962.602	944.371	937.990	935.256	928.875
56.0	945.283	927.963	921.582	919.759	912.467
56.5	928.875	912.467	905.630	903.625	896.423
57.0	913.378	896.059	889.495	887.308	880.471
57.5	897.335	880.198	873.452	871.447	864.337
58.0	881.291	864.519	857.318	855.495	848.384
58.5	865.157	848.749	841.456	839.816	833.070
59.0	849.296	832.888	825.504	823.955	817.483
59.5	833.891	816.844	809.279	808.185	802.077
60.0	818.121	800.892	793.235	792.324	786.399
60.5	802.533	785.305	777.739	776.371	770.538
61.0	787.219	769.717	762.334	760.784	755.041
61.5	770.811	754.312	747.019	745.287	739.727
62.0	754.676	738.451	731.158	729.882	724.048
62.5	738.177	723.775	716.209	715.206	709.190
63.0	722.316	710.831	704.723	704.267	699.345
63.5	706.273	696.702	691.870	690.868	685.763
64.0	696.610	682.937	678.562	676.556	670.722
64.5	681.570	668.261	663.521	661.698	656.229
65.0	664.706	652.582	648.663	646.931	641.644
65.5	647.478	636.721	633.166	632.346	626.968
66.0	630.887	621.225	618.034	617.670	611.927
66.5	614.479	605.364	602.629	602.629	597.524
67.0	598.254	589.594	587.406	587.680	583.031
67.5	582.301	574.097	572.092	572.639	568.081
68.0	566.167	558.601	556.778	557.507	552.767
68.5	549.941	542.831	541.373	542.375	537.726
69.0	533.169	526.970	525.876	526.423	522.139
69.5	516.852	511.382	510.106	510.744	506.825
70.0	500.717	495.612	494.701	494.974	491.511
70.5	484.856	479.751	479.113	479.387	476.105
71.0	468.630	463.982	463.799	464.164	460.609
71.5	452.405	448.212	448.576	448.850	445.750
72.0	436.635	432.351	433.080	433.444	430.801
72.5	420.865	416.763	417.948	418.313	416.125
73.0	405.277	401.540	403.181	403.637	401.722
73.5	390.146	386.499	388.414	389.234	387.137
74.0	375.196	371.459	373.829	374.467	373.100
74.5	360.247	356.692	359.335	359.973	358.970
75.0	345.206	342.016	345.024	345.662	344.841
75.5	330.348	327.339	330.803	331.624	330.712
76.0	315.307	313.210	316.765	317.677	316.948
76.5	301.087	299.264	302.819	303.821	303.183
77.0	287.231	285.226	289.145	290.057	289.054
77.5	272.920	271.552	275.472	276.201	275.199
78.0	258.973	257.879	261.799	262.892	261.890
78.5	245.117	244.570	248.308	249.584	248.763
79.0	231.808	231.262	235.090	236.640	236.002
79.5	218.500	218.226	222.055	223.696	223.149
80.0	205.373	205.464	209.020	211.298	210.569
80.5	192.156	192.976	196.622	198.810	198.263
81.0	179.485	180.761	184.316	186.595	186.231
81.5	167.270	168.638	172.284	174.563	174.289
82.0	155.876	156.787	160.525	162.895	162.621
82.5	144.482	145.302	148.948	151.318	151.136

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83.0	133.087	134.363	137.554	140.015	140.197
83.5	121.875	123.425	126.524	128.894	129.441
84.0	111.392	112.668	115.585	117.864	118.685
84.5	100.727	102.094	104.829	107.108	107.928
85.0	90.791	91.885	94.437	96.442	97.172
85.5	81.128	81.675	83.863	85.960	86.689
86.0	71.648	71.830	73.745	75.659	76.571
86.5	62.259	62.259	63.991	65.723	66.544
87.0	52.779	52.779	54.055	56.243	56.881
87.5	43.390	43.481	44.666	46.854	47.674
88.0	34.457	34.366	35.551	37.921	38.832
88.5	25.888	25.341	26.891	28.987	30.264
89.0	16.773	16.499	18.596	20.601	21.968
89.5	7.748	9.207	11.121	12.671	13.126
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.592	2.947	2.720	2.645	2.871
91.0	12.317	6.499	5.290	5.214	5.138
91.5	19.798	13.224	7.859	7.783	7.708
92.0	27.354	21.989	11.335	10.126	10.126
92.5	35.213	31.057	17.531	12.695	12.468
93.0	43.374	39.747	24.785	16.851	15.189
93.5	51.611	48.059	32.568	22.745	19.798
94.0	59.696	56.220	41.183	29.773	26.070
94.5	68.008	64.381	50.175	37.027	32.871
95.0	76.169	72.769	59.016	44.432	39.596
95.5	84.330	80.628	67.630	52.064	46.699
96.0	92.113	88.637	76.094	59.998	53.953
96.5	99.972	96.647	84.557	68.084	61.434
97.0	107.604	104.506	92.945	76.169	69.368
97.5	115.463	112.440	101.408	84.406	77.303
98.0	123.246	120.223	109.644	92.567	85.313
98.5	131.029	128.082	117.579	100.879	93.322
99.0	138.964	136.168	125.664	108.813	101.408
99.5	146.973	144.177	133.825	116.748	109.342
100.0	154.832	152.263	141.986	124.908	117.125
100.5	162.993	160.348	150.147	133.372	124.984
101.0	171.381	168.434	158.459	141.911	133.523
101.5	179.920	176.670	166.922	150.449	142.364
102.0	188.232	185.209	175.386	158.988	151.129
102.5	196.922	193.672	184.151	167.527	159.819
103.0	205.838	202.438	192.841	175.990	168.660
103.5	214.755	211.355	202.060	185.058	177.426
104.0	223.898	220.347	211.430	194.428	186.569
104.5	233.344	229.717	220.800	204.025	195.713
105.0	243.016	239.313	230.095	213.470	205.007
105.5	252.915	249.061	239.691	222.992	214.226
106.0	262.965	258.885	249.439	232.664	223.445
106.5	273.091	269.010	259.640	242.412	232.739
107.0	283.897	279.589	270.522	252.764	242.865
107.5	295.080	290.471	281.554	263.721	253.822
108.0	306.188	301.654	292.813	275.585	265.081
108.5	317.901	313.065	304.072	287.448	276.718
109.0	329.916	324.702	315.634	299.463	288.506
109.5	342.233	336.792	327.800	311.402	300.445
110.0	355.381	349.185	340.268	323.644	312.914
110.5	368.831	361.879	353.038	336.792	325.835

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111.0	382.433	375.179	366.262	350.469	338.832
111.5	396.337	388.856	379.713	364.373	352.207
112.0	410.770	402.911	393.088	378.277	364.978
112.5	425.278	417.344	406.614	392.105	378.504
113.0	440.467	432.230	420.896	406.387	392.634
113.5	456.109	447.797	436.008	421.802	407.823
114.0	471.977	463.665	452.028	438.200	424.674
114.5	488.375	480.063	468.350	455.277	442.583
115.0	504.999	496.914	485.277	472.506	460.718
115.5	522.379	513.916	502.657	489.659	478.627
116.0	539.910	531.598	520.641	507.719	496.838
116.5	558.423	549.733	539.230	526.233	516.258
117.0	577.692	568.247	557.970	546.182	536.283
117.5	591.899	582.680	575.123	564.544	556.610
118.0	610.034	599.531	592.730	583.511	574.670
118.5	631.117	619.631	610.714	601.117	590.916
119.0	651.746	639.429	631.117	621.066	608.976
119.5	672.602	660.511	652.728	641.318	629.227
120.0	694.138	682.349	674.415	663.458	650.612
120.5	715.522	704.490	696.782	686.959	673.433
121.0	737.965	727.084	719.301	710.384	697.689
121.5	760.181	749.451	741.743	734.111	721.416
122.0	783.606	772.272	765.471	757.914	745.219
122.5	806.276	794.941	788.896	781.339	767.738
123.0	829.701	819.122	813.076	807.031	792.674
123.5	853.881	843.302	838.768	832.723	818.366
124.0	878.062	868.239	863.705	858.415	844.814
124.5	902.243	892.419	888.641	883.352	870.506
125.0	926.424	916.600	912.822	908.288	895.442
125.5	951.360	941.537	937.758	933.224	919.623
126.0	975.541	965.717	963.450	958.161	943.803
126.5	999.721	989.898	989.142	984.608	969.495
127.0	1024.658	1014.834	1014.834	1011.056	996.699
127.5	1049.594	1039.015	1039.015	1036.748	1023.902
128.0	1073.775	1063.196	1063.951	1062.440	1049.594
128.5	1097.955	1086.621	1088.132	1088.132	1074.530
129.0	1122.136	1110.046	1112.313	1113.068	1100.222
129.5	1146.317	1134.227	1137.249	1138.760	1126.670
130.0	1170.498	1158.407	1162.186	1164.452	1154.629
130.5	1194.678	1181.832	1187.878	1189.389	1181.077
131.0	1218.859	1205.257	1212.058	1213.570	1205.257
131.5	1241.528	1227.927	1236.239	1236.239	1228.682
132.0	1264.954	1250.596	1259.664	1260.420	1251.352
132.5	1287.623	1274.021	1283.089	1283.845	1274.021
133.0	1310.292	1297.446	1305.758	1307.270	1295.935
133.5	1332.962	1320.116	1329.184	1330.695	1319.360
134.0	1355.631	1342.030	1351.097	1353.364	1342.030
134.5	1376.034	1363.943	1372.255	1373.767	1363.943
135.0	1396.436	1385.101	1392.658	1394.169	1383.590
135.5	1416.083	1407.015	1413.060	1413.816	1403.237
136.0	1435.730	1427.418	1431.952	1434.219	1423.639
136.5	1456.132	1447.065	1450.843	1454.621	1444.798
137.0	1475.023	1466.711	1470.490	1473.512	1464.444
137.5	1493.915	1484.847	1488.625	1490.892	1481.824
138.0	1512.050	1502.982	1506.005	1507.516	1498.449
138.5	1530.186	1520.362	1523.385	1524.141	1514.317

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1547.566	1537.742	1540.765	1540.765	1530.186
139.5	1564.946	1555.122	1557.389	1556.633	1545.299
140.0	1581.570	1570.991	1574.013	1573.258	1561.923
140.5	1597.438	1586.104	1589.126	1588.371	1576.280
141.0	1613.307	1601.972	1604.239	1602.728	1590.638
141.5	1627.664	1616.330	1619.352	1617.085	1603.484
142.0	1642.777	1631.442	1633.709	1630.687	1617.085
142.5	1657.134	1645.800	1648.067	1645.044	1629.931
143.0	1671.492	1659.401	1661.668	1658.646	1643.533
143.5	1685.093	1673.759	1675.270	1672.247	1656.379
144.0	1697.939	1687.360	1688.116	1684.338	1668.469
144.5	1710.785	1700.206	1700.962	1696.428	1680.560
145.0	1722.876	1713.052	1713.052	1707.763	1691.894
145.5	1735.722	1725.898	1725.143	1720.609	1703.985
146.0	1747.812	1737.989	1737.233	1731.944	1716.075
146.5	1759.902	1750.079	1748.568	1744.034	1728.165
147.0	1771.237	1762.169	1759.147	1756.124	1740.256
147.5	1782.572	1773.504	1770.482	1767.459	1751.590
148.0	1793.907	1784.839	1780.305	1778.038	1763.681
148.5	1805.241	1796.174	1790.128	1788.617	1775.771
149.0	1815.820	1807.508	1799.952	1799.196	1787.861
149.5	1826.399	1818.087	1809.020	1809.775	1799.196
150.0	1836.979	1828.666	1818.843	1819.599	1809.775
150.5	1847.558	1839.245	1827.911	1828.666	1820.354
151.0	1857.381	1849.069	1836.979	1837.734	1830.178
151.5	1867.960	1858.892	1846.802	1846.802	1839.245
152.0	1877.783	1868.716	1855.870	1855.114	1848.313
152.5	1887.607	1877.783	1864.937	1864.182	1856.625
153.0	1897.430	1886.851	1874.005	1873.250	1864.182
153.5	1906.498	1895.919	1883.073	1882.317	1870.983
154.0	1915.566	1904.987	1892.896	1891.385	1878.539
154.5	1925.389	1913.299	1901.964	1899.697	1886.096
155.0	1934.457	1921.611	1911.032	1908.765	1894.408
155.5	1942.769	1929.167	1920.100	1917.833	1902.720
156.0	1951.081	1937.480	1929.923	1926.145	1911.032
156.5	1959.393	1945.792	1938.991	1935.213	1919.344
157.0	1967.705	1954.104	1948.059	1944.280	1927.656
157.5	1975.262	1961.660	1956.371	1952.593	1935.968
158.0	1982.818	1969.217	1964.683	1960.905	1944.280
158.5	1991.131	1977.529	1972.995	1969.217	1953.348
159.0	1997.931	1985.085	1980.552	1977.529	1961.660
159.5	2005.488	1992.642	1988.108	1985.841	1969.972
160.0	2012.289	1999.443	1995.664	1993.398	1978.285
160.5	2019.090	2006.244	2002.465	2000.954	1986.597
161.0	2025.890	2013.044	2009.266	2008.510	1994.909
161.5	2032.691	2020.601	2015.311	2016.067	2003.221
162.0	2040.248	2027.402	2021.356	2023.623	2010.777
162.5	2047.048	2034.202	2027.402	2030.424	2017.578
163.0	2053.849	2041.003	2033.447	2037.225	2024.379
163.5	2060.650	2047.048	2039.492	2044.026	2030.424
164.0	2067.451	2053.094	2044.782	2050.071	2036.469
164.5	2072.740	2059.139	2050.071	2056.116	2042.515
165.0	2078.786	2065.184	2055.361	2062.161	2047.804
165.5	2084.831	2070.474	2060.650	2067.451	2053.094
166.0	2090.876	2075.763	2065.940	2072.740	2057.628
166.5	2096.921	2081.053	2071.229	2077.274	2062.917

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2102.211	2085.586	2075.763	2081.808	2067.451
167.5	2107.500	2090.120	2081.053	2086.342	2072.740
168.0	2112.790	2094.654	2085.586	2090.876	2077.274
168.5	2118.079	2099.188	2090.120	2095.410	2082.564
169.0	2122.613	2102.966	2094.654	2099.188	2087.098
169.5	2126.391	2106.745	2098.432	2102.966	2091.632
170.0	2130.170	2110.523	2102.211	2106.745	2096.921
170.5	2133.948	2114.301	2105.233	2110.523	2100.699
171.0	2137.726	2117.324	2108.256	2114.301	2104.478
171.5	2140.749	2120.346	2111.278	2118.079	2108.256
172.0	2143.771	2123.369	2113.545	2121.102	2111.278
172.5	2146.794	2126.391	2115.812	2123.369	2113.545
173.0	2149.816	2129.414	2118.079	2126.391	2115.057
173.5	2152.083	2131.681	2120.346	2127.903	2116.568
174.0	2154.350	2133.948	2122.613	2129.414	2117.324
174.5	2155.862	2135.459	2124.124	2130.925	2118.079
175.0	2157.373	2137.726	2125.636	2131.681	2118.079
175.5	2158.884	2139.237	2127.903	2132.437	2118.835
176.0	2160.396	2140.749	2129.414	2132.437	2118.835
176.5	2161.151	2142.260	2130.170	2133.192	2118.835
177.0	2161.907	2143.771	2131.681	2133.192	2118.079
177.5	2163.418	2145.283	2133.192	2133.192	2118.079
178.0	2164.174	2145.283	2133.948	2133.192	2118.835
178.5	2164.174	2146.038	2134.704	2133.192	2118.835
179.0	2164.929	2146.794	2134.704	2133.192	2118.835
179.5	2165.685	2146.794	2135.459	2133.192	2118.835
180.0	2139.237	2139.237	2139.237	2139.237	2139.237



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	785.39	N.A.	7.10
0-30	1641.98	N.A.	14.90
0-40	2637.86	N.A.	24.00
0-60	4482.32	N.A.	40.70
0-80	5489.1	N.A.	49.90
0-90	5595.48	N.A.	50.80
10-90	5390.48	N.A.	49.00
20-40	1852.47	N.A.	16.80
20-50	2841.09	N.A.	25.80
40-70	2485.47	N.A.	22.60
60-80	1006.78	N.A.	9.10
70-80	365.77	N.A.	3.30
80-90	106.38	N.A.	1.00
90-110	309.59	N.A.	2.80
90-120	794.73	N.A.	7.20
90-130	1610.00	N.A.	14.60
90-150	3744.73	N.A.	34.00
90-180	5412.13	N.A.	49.20
110-180	5102.54	N.A.	46.40
0-180	11007.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	205.00
10-20	580.39
20-30	856.59
30-40	995.88
40-50	988.61
50-60	855.84
60-70	641.01
70-80	365.77
80-90	106.38
90-100	66.77
100-110	242.81
110-120	485.15
120-130	815.27
130-140	1066.03
140-150	1068.7
150-160	882.80
160-170	581.73
170-180	202.87

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-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-L12-835U-L15-835D-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	17.2	18.1	18.2	19.1	20.3	17.1	18.0	18.1	19.0	20.2
	3H	19.0	19.8	20.0	20.8	22.0	18.9	19.7	19.9	20.7	21.9
	4H	19.6	20.4	20.6	21.3	22.6	19.5	20.3	20.5	21.3	22.5
	6H	20.0	20.7	21.0	21.7	23.0	20.0	20.7	21.0	21.7	23.0
	8H	20.2	20.8	21.2	21.8	23.1	20.1	20.8	21.1	21.8	23.1
	12H	20.3	20.9	21.3	21.9	23.2	20.2	20.9	21.2	21.9	23.2

### UGR Viewed Endwise

4H	2H	17.8	18.5	18.7	19.5	20.8	17.7	18.4	18.7	19.4	20.7
	3H	19.7	20.4	20.7	21.4	22.7	19.7	20.3	20.7	21.3	22.6
	4H	20.5	21.0	21.5	22.0	23.4	20.4	21.0	21.4	22.0	23.3
	6H	21.0	21.5	22.0	22.5	23.9	21.0	21.5	22.0	22.5	23.8
	8H	21.2	21.7	22.2	22.7	24.0	21.2	21.7	22.2	22.7	24.0
	12H	21.3	21.7	22.3	22.8	24.1	21.3	21.8	22.4	22.8	24.1

8H	4H	20.7	21.2	21.7	22.2	23.5	20.7	21.1	21.7	22.1	23.5
	6H	21.4	21.8	22.4	22.8	24.2	21.4	21.8	22.4	22.8	24.2
	8H	21.7	22.0	22.7	23.0	24.4	21.7	22.0	22.7	23.1	24.4
	12H	21.9	22.2	22.9	23.2	24.6	21.9	22.2	22.9	23.2	24.6

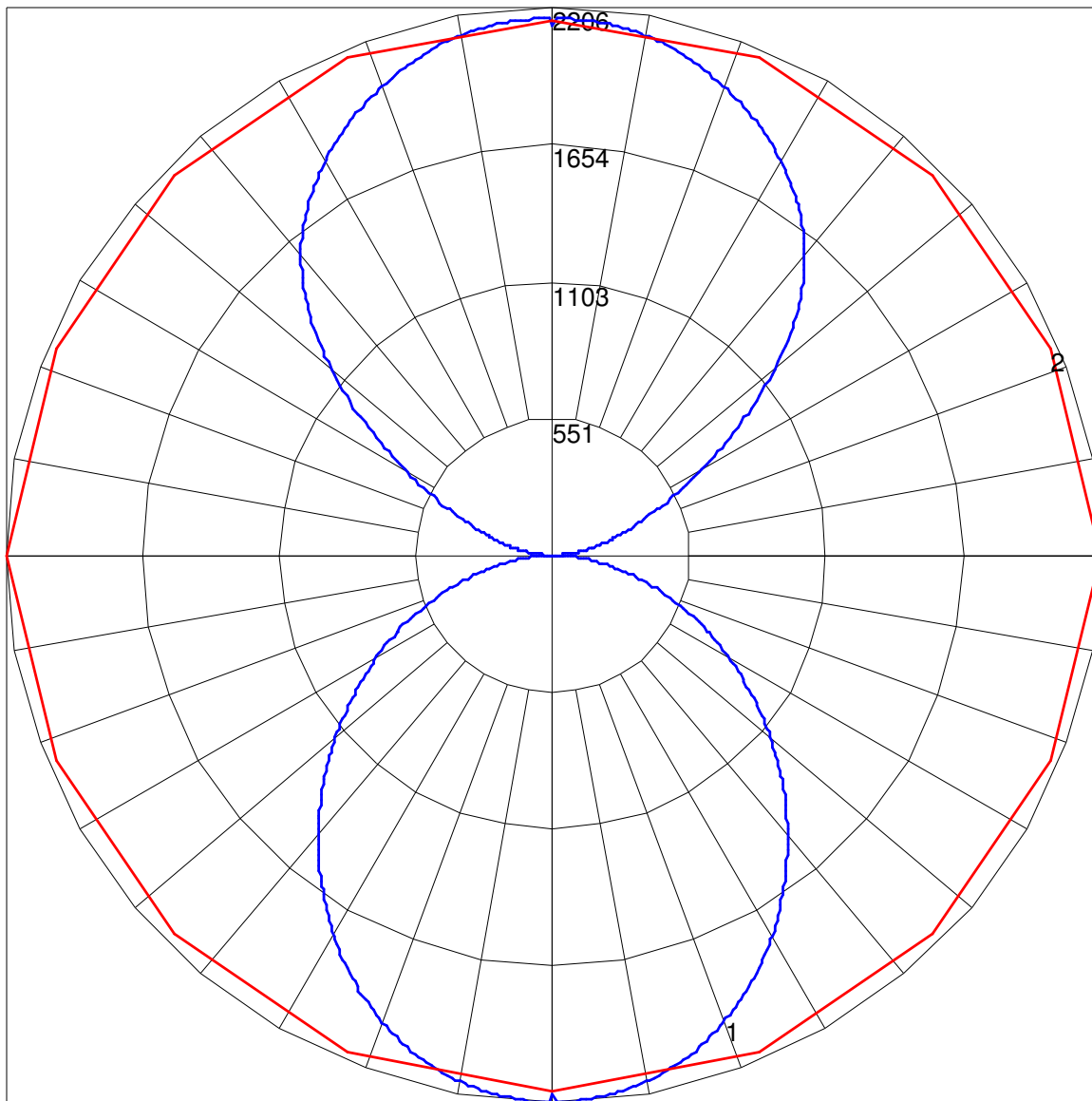
12H	4H	20.7	21.1	21.7	22.2	23.5	20.7	21.1	21.7	22.1	23.5
	6H	21.5	21.8	22.5	22.8	24.2	21.4	21.8	22.5	22.8	24.2
	8H	21.7	22.0	22.8	23.1	24.5	21.8	22.1	22.8	23.1	24.5

Maximum UGR = 24.6

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-835U-L15-835D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2205.963 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.)