

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-835U-L12-835D-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-L15-835U-L12-835D-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	11123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	92.4
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	14948	14574	14407
55	13741	13408	13267
65	12673	12368	12234
75	10747	10742	10736
85	8394	8731	8984

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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	2168.921	2168.921	2168.921	2168.921	2168.921
0.5	2201.673	2170.741	2159.823	2164.372	2157.094
1.0	2201.673	2169.831	2159.823	2164.372	2157.094
1.5	2200.764	2168.921	2158.914	2164.372	2156.184
2.0	2199.854	2168.011	2158.004	2163.463	2156.184
2.5	2198.944	2167.102	2156.184	2162.553	2155.275
3.0	2197.125	2165.282	2155.275	2161.643	2153.455
3.5	2195.305	2163.463	2153.455	2159.823	2151.635
4.0	2193.485	2161.643	2151.635	2158.004	2149.816
4.5	2191.666	2158.914	2149.816	2156.184	2147.086
5.0	2189.846	2157.094	2147.086	2153.455	2144.357
5.5	2187.117	2154.365	2144.357	2150.726	2141.628
6.0	2184.388	2150.726	2141.628	2147.996	2137.989
6.5	2180.748	2147.996	2137.989	2144.357	2135.259
7.0	2178.019	2144.357	2135.259	2140.718	2131.620
7.5	2175.290	2140.718	2131.620	2137.079	2128.891
8.0	2170.741	2137.079	2127.071	2133.440	2125.252
8.5	2167.102	2132.530	2122.522	2128.891	2120.703
9.0	2162.553	2128.891	2118.883	2124.342	2116.154
9.5	2158.004	2124.342	2113.425	2118.883	2111.605
10.0	2153.455	2119.793	2108.876	2114.334	2106.146
10.5	2147.996	2114.334	2103.417	2108.876	2101.597
11.0	2143.447	2108.876	2097.958	2103.417	2095.229
11.5	2137.079	2103.417	2092.500	2097.958	2089.770
12.0	2131.620	2097.958	2087.041	2091.590	2083.402
12.5	2126.161	2091.590	2080.672	2085.221	2077.033
13.0	2119.793	2086.131	2074.304	2078.853	2070.665
13.5	2113.425	2078.853	2067.935	2071.575	2064.296
14.0	2107.056	2072.484	2060.657	2065.206	2057.928
14.5	2100.688	2066.116	2053.379	2057.928	2050.650
15.0	2094.319	2058.838	2046.101	2050.650	2043.371
15.5	2086.131	2052.469	2038.822	2042.462	2035.183
16.0	2077.033	2045.191	2030.634	2035.183	2027.905
16.5	2067.935	2037.003	2022.446	2026.995	2019.717
17.0	2059.747	2028.815	2014.258	2018.807	2011.529
17.5	2050.650	2019.717	2005.160	2009.709	2002.431
18.0	2041.552	2010.619	1996.063	2000.612	1993.333
18.5	2032.454	2001.521	1986.965	1990.604	1984.235
19.0	2023.356	1992.423	1978.777	1981.506	1973.318
19.5	2013.348	1983.326	1969.679	1970.589	1962.401
20.0	2004.251	1973.318	1961.491	1960.581	1951.483
20.5	1994.243	1964.220	1952.393	1949.664	1940.566
21.0	1984.235	1954.213	1942.385	1938.746	1928.739
21.5	1973.318	1944.205	1931.468	1927.829	1916.912
22.0	1963.310	1933.288	1919.641	1916.002	1905.994
22.5	1952.393	1922.370	1908.723	1904.175	1894.167
23.0	1941.476	1911.453	1897.806	1891.438	1882.340
23.5	1930.558	1900.535	1885.979	1879.610	1871.422
24.0	1918.731	1889.618	1875.062	1867.783	1859.595
24.5	1906.904	1877.791	1863.234	1855.956	1847.768
25.0	1895.987	1865.964	1851.407	1844.129	1835.941
25.5	1884.159	1854.137	1838.670	1832.302	1823.204
26.0	1871.422	1841.400	1826.843	1820.475	1811.377
26.5	1859.595	1829.572	1814.106	1808.647	1799.550

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27.0	1846.858	1816.835	1801.369	1796.820	1786.813
27.5	1834.121	1804.099	1789.542	1784.993	1774.985
28.0	1821.384	1790.452	1775.895	1772.256	1762.249
28.5	1807.738	1776.805	1763.158	1760.429	1749.512
29.0	1794.091	1764.068	1750.421	1747.692	1736.775
29.5	1781.354	1750.421	1737.684	1734.045	1724.947
30.0	1767.707	1736.775	1724.947	1721.308	1712.210
30.5	1754.060	1723.128	1711.301	1708.571	1699.474
31.0	1739.504	1710.391	1697.654	1694.925	1686.737
31.5	1725.857	1696.744	1684.007	1681.278	1673.090
32.0	1711.301	1682.188	1670.361	1666.721	1659.443
32.5	1696.744	1668.541	1656.714	1653.075	1644.887
33.0	1682.188	1654.894	1643.067	1639.428	1630.330
33.5	1668.541	1640.338	1628.511	1624.871	1616.683
34.0	1653.075	1625.781	1614.864	1610.315	1602.127
34.5	1638.518	1611.225	1599.397	1595.758	1586.661
35.0	1623.962	1597.578	1584.841	1581.202	1571.194
35.5	1608.495	1582.112	1570.284	1566.645	1555.728
36.0	1593.029	1567.555	1555.728	1551.179	1541.171
36.5	1578.472	1552.999	1541.171	1536.622	1526.615
37.0	1563.006	1537.532	1525.705	1521.156	1511.149
37.5	1547.540	1522.066	1511.149	1505.690	1496.592
38.0	1531.164	1506.600	1495.682	1490.224	1481.126
38.5	1515.697	1491.133	1480.216	1475.667	1465.659
39.0	1501.141	1475.667	1464.750	1460.201	1451.103
39.5	1484.765	1460.201	1450.193	1444.734	1434.727
40.0	1469.299	1443.825	1434.727	1429.268	1420.170
40.5	1452.923	1428.358	1419.261	1413.802	1404.704
41.0	1437.456	1411.982	1403.794	1397.426	1388.328
41.5	1421.080	1396.516	1387.418	1381.959	1371.952
42.0	1405.614	1380.140	1371.952	1366.493	1356.486
42.5	1390.148	1364.674	1356.486	1350.117	1341.019
43.0	1373.771	1349.207	1341.019	1334.651	1324.643
43.5	1358.305	1332.831	1324.643	1319.184	1309.177
44.0	1341.929	1316.455	1308.267	1302.808	1293.711
44.5	1325.553	1300.079	1291.891	1286.432	1277.335
45.0	1309.177	1284.613	1276.425	1270.056	1261.868
45.5	1293.711	1268.237	1260.049	1254.590	1246.402
46.0	1277.335	1251.861	1243.673	1238.214	1230.936
46.5	1260.958	1235.485	1228.206	1222.748	1215.469
47.0	1244.582	1219.108	1211.830	1206.371	1199.093
47.5	1227.296	1202.732	1195.454	1189.995	1183.627
48.0	1210.920	1186.356	1179.078	1174.529	1167.251
48.5	1194.544	1169.980	1163.612	1158.153	1150.875
49.0	1177.258	1153.604	1147.236	1141.777	1135.408
49.5	1160.882	1137.228	1130.860	1126.311	1119.942
50.0	1143.596	1120.852	1114.483	1109.935	1103.566
50.5	1126.311	1104.476	1098.107	1093.558	1088.100
51.0	1109.025	1088.100	1081.731	1077.182	1071.724
51.5	1092.649	1071.724	1065.355	1061.716	1055.348
52.0	1076.273	1055.348	1048.979	1045.340	1039.881
52.5	1058.987	1038.972	1032.603	1029.874	1023.505
53.0	1042.611	1022.595	1016.227	1013.498	1007.129
53.5	1025.325	1006.219	999.851	997.122	990.753
54.0	1008.949	989.843	984.385	981.655	974.377
54.5	992.573	974.377	968.008	965.279	958.001

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55.0	976.197	958.911	952.542	949.813	942.535
55.5	960.730	942.535	936.166	933.437	927.068
56.0	943.444	926.158	919.790	917.970	910.692
56.5	927.068	910.692	903.869	901.867	894.680
57.0	911.602	894.316	887.766	885.582	878.759
57.5	895.590	878.486	871.754	869.752	862.656
58.0	879.578	862.838	855.650	853.831	846.734
58.5	863.474	847.098	839.820	838.183	831.450
59.0	847.644	831.268	823.899	822.352	815.893
59.5	832.269	815.256	807.705	806.613	800.518
60.0	816.530	799.335	791.693	790.783	784.869
60.5	800.972	783.778	776.226	774.862	769.039
61.0	785.688	768.220	760.851	759.304	753.573
61.5	769.312	752.845	745.567	743.838	738.288
62.0	753.209	737.015	729.736	728.463	722.640
62.5	736.742	722.367	714.816	713.815	707.811
63.0	720.912	709.448	703.353	702.898	697.985
63.5	704.899	695.347	690.525	689.524	684.429
64.0	695.256	681.609	677.242	675.241	669.418
64.5	680.244	666.961	662.231	660.411	654.952
65.0	663.413	651.313	647.401	645.673	640.396
65.5	646.218	635.483	631.935	631.116	625.748
66.0	629.660	620.017	616.832	616.469	610.737
66.5	613.284	604.186	601.457	601.457	596.362
67.0	597.090	588.447	586.264	586.537	581.897
67.5	581.169	572.981	570.979	571.525	566.976
68.0	565.066	557.515	555.695	556.423	551.692
68.5	548.872	541.775	540.320	541.321	536.681
69.0	532.132	525.945	524.853	525.399	521.123
69.5	515.847	510.388	509.114	509.751	505.839
70.0	499.743	494.649	493.739	494.012	490.555
70.5	483.913	478.818	478.182	478.455	475.179
71.0	467.719	463.079	462.897	463.261	459.713
71.5	451.525	447.340	447.704	447.977	444.884
72.0	435.786	431.510	432.238	432.602	429.963
72.5	420.047	415.953	417.135	417.499	415.316
73.0	404.489	400.759	402.397	402.852	400.941
73.5	389.387	385.748	387.658	388.477	386.385
74.0	374.466	370.736	373.102	373.739	372.374
74.5	359.546	355.998	358.636	359.273	358.272
75.0	344.535	341.350	344.353	344.989	344.171
75.5	329.705	326.703	330.160	330.979	330.069
76.0	314.694	312.601	316.149	317.059	316.331
76.5	300.501	298.682	302.230	303.230	302.594
77.0	286.672	284.671	288.583	289.493	288.492
77.5	272.389	271.024	274.936	275.664	274.663
78.0	258.469	257.377	261.290	262.381	261.380
78.5	244.640	244.095	247.825	249.098	248.280
79.0	231.358	230.812	234.633	236.180	235.543
79.5	218.075	217.802	221.623	223.261	222.715
80.0	204.974	205.065	208.613	210.888	210.160
80.5	191.782	192.601	196.240	198.424	197.878
81.0	179.136	180.410	183.958	186.232	185.869
81.5	166.945	168.310	171.949	174.223	173.950
82.0	155.573	156.483	160.213	162.578	162.305
82.5	144.201	145.019	148.658	151.024	150.842

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83.0	132.828	134.102	137.286	139.743	139.925
83.5	121.638	123.185	126.278	128.643	129.189
84.0	111.175	112.449	115.360	117.635	118.454
84.5	100.531	101.896	104.625	106.899	107.718
85.0	90.614	91.706	94.253	96.255	96.983
85.5	80.971	81.517	83.700	85.792	86.520
86.0	71.509	71.691	73.601	75.512	76.422
86.5	62.138	62.138	63.867	65.595	66.414
87.0	52.676	52.676	53.950	56.134	56.770
87.5	43.306	43.397	44.579	46.763	47.582
88.0	34.390	34.299	35.482	37.847	38.757
88.5	25.838	25.292	26.839	28.931	30.205
89.0	16.740	16.467	18.560	20.561	21.926
89.5	7.733	9.189	11.099	12.646	13.101
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.723	3.016	2.784	2.707	2.939
91.0	12.605	6.651	5.413	5.336	5.259
91.5	20.261	13.533	8.042	7.965	7.888
92.0	27.994	22.503	11.600	10.362	10.362
92.5	36.036	31.783	17.941	12.992	12.760
93.0	44.388	40.676	25.365	17.245	15.544
93.5	52.817	49.183	33.330	23.277	20.261
94.0	61.092	57.535	42.146	30.469	26.679
94.5	69.598	65.886	51.348	37.892	33.639
95.0	77.950	74.470	60.396	45.471	40.522
95.5	86.302	82.513	69.212	53.281	47.791
96.0	94.267	90.710	77.873	61.401	55.215
96.5	102.310	98.907	86.534	69.676	62.871
97.0	110.120	106.949	95.118	77.950	70.990
97.5	118.163	115.069	103.779	86.379	79.110
98.0	126.128	123.034	112.208	94.731	87.307
98.5	134.093	131.077	120.328	103.238	95.504
99.0	142.213	139.351	128.602	111.357	103.779
99.5	150.410	147.549	136.954	119.477	111.899
100.0	158.452	155.823	145.306	127.829	119.864
100.5	166.804	164.097	153.658	136.490	127.906
101.0	175.388	172.372	162.164	145.229	136.645
101.5	184.126	180.801	170.825	153.967	145.693
102.0	192.633	189.540	179.486	162.705	154.663
102.5	201.526	198.201	188.457	171.444	163.556
103.0	210.651	207.171	197.350	180.105	172.604
103.5	219.776	216.296	206.784	189.385	181.574
104.0	229.133	225.499	216.374	198.974	190.931
104.5	238.800	235.088	225.963	208.795	200.289
105.0	248.698	244.909	235.474	218.462	209.800
105.5	258.829	254.885	245.296	228.205	219.235
106.0	269.114	264.938	255.271	238.104	228.669
106.5	279.476	275.300	265.711	248.079	238.181
107.0	290.534	286.127	276.847	258.674	248.543
107.5	301.980	297.262	288.137	269.887	259.757
108.0	313.347	308.707	299.660	282.028	271.279
108.5	325.334	320.384	311.182	294.169	283.188
109.0	337.629	332.293	323.014	306.465	295.252
109.5	350.234	344.667	335.464	318.683	307.470
110.0	363.690	357.349	348.224	331.211	320.230
110.5	377.455	370.341	361.293	344.667	333.453

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111.0	391.375	383.951	374.826	358.664	346.754
111.5	405.604	397.948	388.591	372.893	360.442
112.0	420.374	412.332	402.278	387.122	373.511
112.5	435.222	427.102	416.121	401.273	387.354
113.0	450.765	442.336	430.736	415.889	401.814
113.5	466.773	458.266	446.203	431.664	417.358
114.0	483.013	474.506	462.597	448.445	434.603
114.5	499.794	491.287	479.301	465.922	452.931
115.0	516.806	508.532	496.623	483.554	471.490
115.5	534.593	525.932	514.409	501.108	489.818
116.0	552.534	544.027	532.814	519.590	508.455
116.5	571.480	562.587	551.838	538.537	528.329
117.0	591.199	581.533	571.016	558.952	548.822
117.5	605.738	596.303	588.570	577.744	569.624
118.0	624.297	613.548	606.588	597.154	588.106
118.5	645.873	634.118	624.993	615.172	604.732
119.0	666.984	654.379	645.873	635.588	623.215
119.5	688.328	675.955	667.990	656.312	643.939
120.0	710.367	698.303	690.184	678.971	665.824
120.5	732.252	720.962	713.074	703.021	689.178
121.0	755.219	744.084	736.119	726.993	714.002
121.5	777.955	766.974	759.086	751.276	738.284
122.0	801.928	790.328	783.368	775.635	762.643
122.5	825.127	813.527	807.341	799.608	785.688
123.0	849.100	838.274	832.087	825.900	811.207
123.5	873.846	863.020	858.380	852.193	837.500
124.0	898.592	888.539	883.899	878.486	864.566
124.5	923.338	913.285	909.418	904.005	890.859
125.0	948.084	938.031	934.165	929.525	916.378
125.5	973.604	963.551	959.684	955.044	941.124
126.0	998.350	988.297	985.977	980.563	965.870
126.5	1023.096	1013.043	1012.269	1007.630	992.163
127.0	1048.615	1038.562	1038.562	1034.696	1020.003
127.5	1074.135	1063.308	1063.308	1060.988	1047.842
128.0	1098.881	1088.054	1088.828	1087.281	1074.135
128.5	1123.627	1112.027	1113.574	1113.574	1099.654
129.0	1148.373	1136.000	1138.320	1139.093	1125.947
129.5	1173.119	1160.746	1163.839	1165.386	1153.013
130.0	1197.865	1185.492	1189.359	1191.678	1181.625
130.5	1222.611	1209.465	1215.651	1217.198	1208.691
131.0	1247.357	1233.438	1240.397	1241.944	1233.438
131.5	1270.557	1256.637	1265.143	1265.143	1257.410
132.0	1294.529	1279.836	1289.116	1289.890	1280.610
132.5	1317.729	1303.809	1313.089	1313.862	1303.809
133.0	1340.928	1327.782	1336.288	1337.835	1326.235
133.5	1364.128	1350.981	1360.261	1361.808	1350.208
134.0	1387.327	1373.408	1382.687	1385.007	1373.408
134.5	1408.207	1395.834	1404.340	1405.887	1395.834
135.0	1429.086	1417.486	1425.220	1426.766	1415.940
135.5	1449.192	1439.913	1446.099	1446.872	1436.046
136.0	1469.299	1460.792	1465.432	1467.752	1456.926
136.5	1490.178	1480.898	1484.765	1488.631	1478.578
137.0	1509.511	1501.005	1504.871	1507.964	1498.685
137.5	1528.844	1519.564	1523.431	1525.751	1516.471
138.0	1547.403	1538.124	1541.217	1542.764	1533.484
138.5	1565.963	1555.910	1559.003	1559.776	1549.723

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

139.0	1583.749	1573.696	1576.789	1576.789	1565.963
139.5	1601.535	1591.482	1593.802	1593.029	1581.429
140.0	1618.548	1607.722	1610.815	1610.042	1598.442
140.5	1634.788	1623.188	1626.282	1625.508	1613.135
141.0	1651.028	1639.428	1641.748	1640.201	1627.828
141.5	1665.721	1654.121	1657.214	1654.894	1640.975
142.0	1681.187	1669.587	1671.907	1668.814	1654.894
142.5	1695.880	1684.280	1686.600	1683.507	1668.041
143.0	1710.573	1698.200	1700.520	1697.427	1681.960
143.5	1724.493	1712.893	1714.439	1711.346	1695.107
144.0	1737.639	1726.813	1727.586	1723.719	1707.480
144.5	1750.785	1739.959	1740.732	1736.092	1719.853
145.0	1763.158	1753.105	1753.105	1747.692	1731.452
145.5	1776.305	1766.252	1765.478	1760.838	1743.825
146.0	1788.678	1778.625	1777.851	1772.438	1756.198
146.5	1801.051	1790.998	1789.451	1784.811	1768.572
147.0	1812.650	1803.371	1800.277	1797.184	1780.945
147.5	1824.250	1814.970	1811.877	1808.784	1792.544
148.0	1835.850	1826.570	1821.930	1819.610	1804.917
148.5	1847.450	1838.170	1831.983	1830.437	1817.290
149.0	1858.276	1849.770	1842.036	1841.263	1829.663
149.5	1869.102	1860.596	1851.316	1852.090	1841.263
150.0	1879.929	1871.422	1861.369	1862.143	1852.090
150.5	1890.755	1882.249	1870.649	1871.422	1862.916
151.0	1900.808	1892.302	1879.929	1880.702	1872.969
151.5	1911.635	1902.355	1889.982	1889.982	1882.249
152.0	1921.688	1912.408	1899.262	1898.488	1891.529
152.5	1931.741	1921.688	1908.542	1907.768	1900.035
153.0	1941.794	1930.968	1917.821	1917.048	1907.768
153.5	1951.074	1940.247	1927.101	1926.328	1914.728
154.0	1960.354	1949.527	1937.154	1935.608	1922.461
154.5	1970.407	1958.034	1946.434	1944.114	1930.194
155.0	1979.687	1966.540	1955.714	1953.394	1938.701
155.5	1988.193	1974.273	1964.994	1962.674	1947.207
156.0	1996.699	1982.780	1975.047	1971.180	1955.714
156.5	2005.206	1991.286	1984.326	1980.460	1964.220
157.0	2013.712	1999.793	1993.606	1989.740	1972.727
157.5	2021.446	2007.526	2002.113	1998.246	1981.233
158.0	2029.179	2015.259	2010.619	2006.753	1989.740
158.5	2037.685	2023.765	2019.126	2015.259	1999.019
159.0	2044.645	2031.499	2026.859	2023.765	2007.526
159.5	2052.378	2039.232	2034.592	2032.272	2016.032
160.0	2059.338	2046.192	2042.325	2040.005	2024.539
160.5	2066.298	2053.151	2049.285	2047.738	2033.045
161.0	2073.258	2060.111	2056.245	2055.471	2041.552
161.5	2080.217	2067.844	2062.431	2063.205	2050.058
162.0	2087.951	2074.804	2068.618	2070.938	2057.791
162.5	2094.910	2081.764	2074.804	2077.898	2064.751
163.0	2101.870	2088.724	2080.991	2084.857	2071.711
163.5	2108.830	2094.910	2087.177	2091.817	2077.898
164.0	2115.790	2101.097	2092.591	2098.004	2084.084
164.5	2121.203	2107.284	2098.004	2104.190	2090.271
165.0	2127.390	2113.470	2103.417	2110.377	2095.684
165.5	2133.576	2118.883	2108.830	2115.790	2101.097
166.0	2139.763	2124.296	2114.243	2121.203	2105.737
166.5	2145.949	2129.710	2119.657	2125.843	2111.150

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

167.0	2151.362	2134.350	2124.296	2130.483	2115.790
167.5	2156.776	2138.989	2129.710	2135.123	2121.203
168.0	2162.189	2143.629	2134.350	2139.763	2125.843
168.5	2167.602	2148.269	2138.989	2144.403	2131.256
169.0	2172.242	2152.136	2143.629	2148.269	2135.896
169.5	2176.109	2156.002	2147.496	2152.136	2140.536
170.0	2179.975	2159.869	2151.362	2156.002	2145.949
170.5	2183.842	2163.736	2154.456	2159.869	2149.816
171.0	2187.708	2166.829	2157.549	2163.736	2153.682
171.5	2190.802	2169.922	2160.642	2167.602	2157.549
172.0	2193.895	2173.015	2162.962	2170.695	2160.642
172.5	2196.988	2176.109	2165.282	2173.015	2162.962
173.0	2200.081	2179.202	2167.602	2176.109	2164.509
173.5	2202.401	2181.522	2169.922	2177.655	2166.055
174.0	2204.721	2183.842	2172.242	2179.202	2166.829
174.5	2206.268	2185.388	2173.789	2180.748	2167.602
175.0	2207.814	2187.708	2175.335	2181.522	2167.602
175.5	2209.361	2189.255	2177.655	2182.295	2168.375
176.0	2210.908	2190.802	2179.202	2182.295	2168.375
176.5	2211.681	2192.348	2179.975	2183.068	2168.375
177.0	2212.454	2193.895	2181.522	2183.068	2167.602
177.5	2214.001	2195.441	2183.068	2183.068	2167.602
178.0	2214.774	2195.441	2183.842	2183.068	2168.375
178.5	2214.774	2196.215	2184.615	2183.068	2168.375
179.0	2215.548	2196.988	2184.615	2183.068	2168.375
179.5	2216.321	2196.988	2185.388	2183.068	2168.375
180.0	2189.255	2189.255	2189.255	2189.255	2189.255

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

Zone	Lumens	%Lamp	%Fixt
0-20	783.86	N.A.	7.00
0-30	1638.78	N.A.	14.70
0-40	2632.73	N.A.	23.70
0-60	4473.6	N.A.	40.20
0-80	5478.43	N.A.	49.30
0-90	5584.6	N.A.	50.20
10-90	5380.00	N.A.	48.40
20-40	1848.87	N.A.	16.60
20-50	2835.56	N.A.	25.50
40-70	2480.63	N.A.	22.30
60-80	1004.83	N.A.	9.00
70-80	365.06	N.A.	3.30
80-90	106.17	N.A.	1.00
90-110	316.82	N.A.	2.80
90-120	813.31	N.A.	7.30
90-130	1647.64	N.A.	14.80
90-150	3832.29	N.A.	34.50
90-180	5538.67	N.A.	49.80
110-180	5221.84	N.A.	46.90
0-180	11123.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.60
10-20	579.26
20-30	854.92
30-40	993.95
40-50	986.69
50-60	854.18
60-70	639.76
70-80	365.06
80-90	106.17
90-100	68.33
100-110	248.49
110-120	496.49
120-130	834.33
130-140	1090.96
140-150	1093.69
150-160	903.44
160-170	595.33
170-180	207.61

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-835U-L12-835D-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	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	54	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-L15-835U-L12-835D-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	20.7	22.0	18.9	19.7	19.9	20.7	21.9
	4H	19.6	20.3	20.6	21.3	22.6	19.5	20.3	20.5	21.2	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	20.2	20.9	21.2	21.9	23.2	20.2	20.8	21.2	21.8	23.2

UGR Viewed Endwise

4H	2H	17.8	18.5	18.8	19.5	20.8	17.7	18.4	18.7	19.4	20.7
	3H	19.7	20.3	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	23.9
	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	22.4	22.8	24.1	21.3	21.7	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	22.1	22.9	23.2	24.6	21.9	22.2	23.0	23.2	24.6

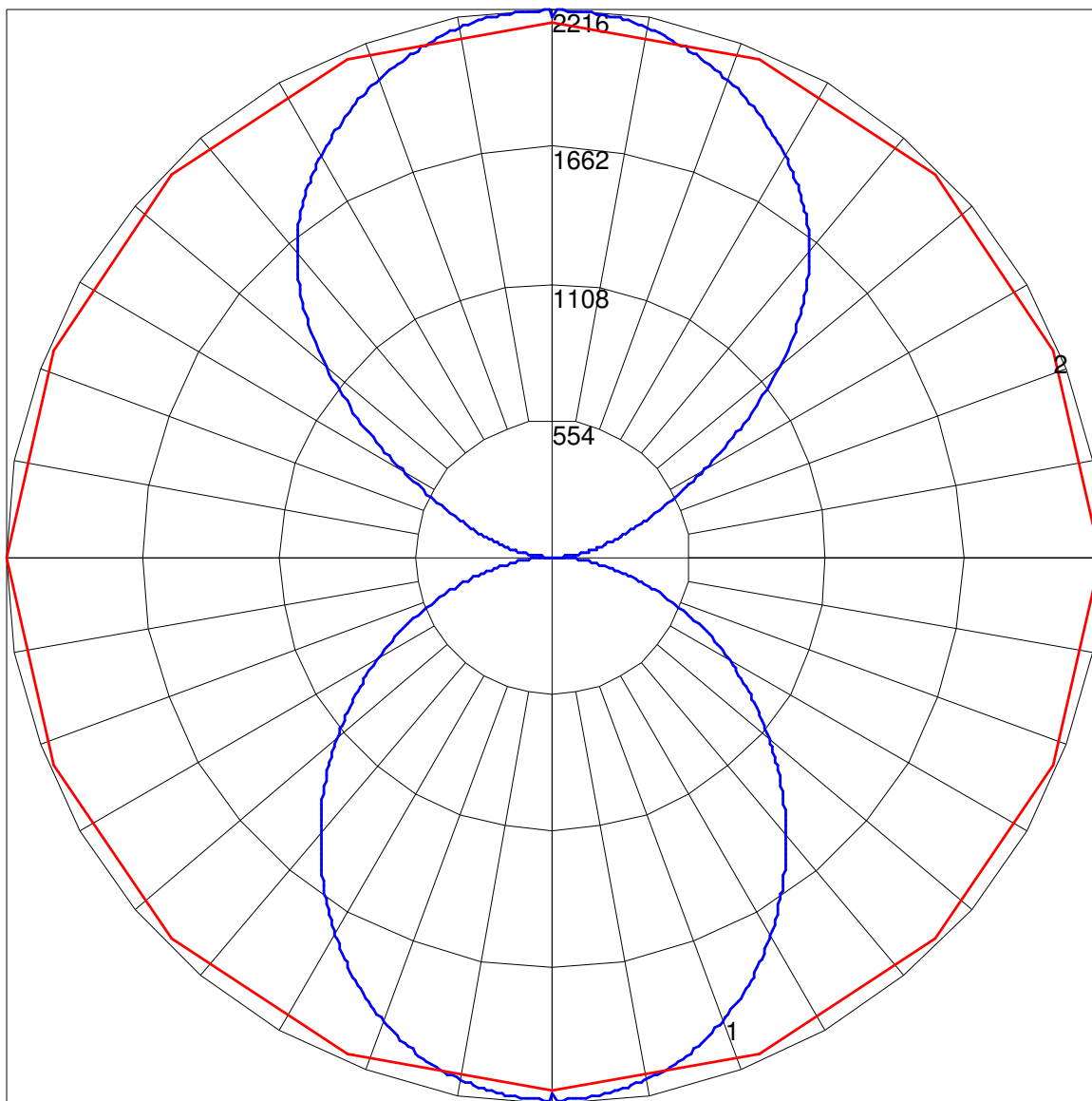
12H	4H	20.7	21.1	21.7	22.2	23.5	20.7	21.1	21.7	22.1	23.5
	6H	21.4	21.8	22.5	22.8	24.2	21.4	21.8	22.5	22.8	24.2
	8H	21.7	22.0	22.8	23.1	24.5	21.8	22.0	22.8	23.1	24.5

Maximum UGR = 24.6

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 2216.321 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.)