

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-835U-L15-835D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

[IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #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-L8-835U-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	9426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	77.6
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	12785	12466	12323
55	11753	11468	11348
65	10840	10579	10464
75	9193	9188	9183
85	7180	7468	7684

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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>	1855.185	1855.185	1855.185	1855.185	1855.185
<b>0.5</b>	1883.199	1856.741	1847.403	1851.294	1845.068
<b>1.0</b>	1883.199	1855.963	1847.403	1851.294	1845.068
<b>1.5</b>	1882.421	1855.185	1846.625	1851.294	1844.290
<b>2.0</b>	1881.643	1854.406	1845.846	1850.515	1844.290
<b>2.5</b>	1880.864	1853.628	1844.290	1849.737	1843.512
<b>3.0</b>	1879.308	1852.072	1843.512	1848.959	1841.955
<b>3.5</b>	1877.752	1850.515	1841.955	1847.403	1840.399
<b>4.0</b>	1876.195	1848.959	1840.399	1845.846	1838.843
<b>4.5</b>	1874.639	1846.625	1838.843	1844.290	1836.508
<b>5.0</b>	1873.083	1845.068	1836.508	1841.955	1834.174
<b>5.5</b>	1870.748	1842.734	1834.174	1839.621	1831.839
<b>6.0</b>	1868.414	1839.621	1831.839	1837.286	1828.726
<b>6.5</b>	1865.301	1837.286	1828.726	1834.174	1826.392
<b>7.0</b>	1862.966	1834.174	1826.392	1831.061	1823.279
<b>7.5</b>	1860.632	1831.061	1823.279	1827.948	1820.945
<b>8.0</b>	1856.741	1827.948	1819.388	1824.835	1817.832
<b>8.5</b>	1853.628	1824.057	1815.497	1820.945	1813.941
<b>9.0</b>	1849.737	1820.945	1812.385	1817.054	1810.050
<b>9.5</b>	1845.846	1817.054	1807.715	1812.385	1806.159
<b>10.0</b>	1841.955	1813.163	1803.825	1808.494	1801.490
<b>10.5</b>	1837.286	1808.494	1799.155	1803.825	1797.599
<b>11.0</b>	1833.395	1803.825	1794.486	1799.155	1792.152
<b>11.5</b>	1827.948	1799.155	1789.817	1794.486	1787.483
<b>12.0</b>	1823.279	1794.486	1785.148	1789.039	1782.035
<b>12.5</b>	1818.610	1789.039	1779.701	1783.592	1776.588
<b>13.0</b>	1813.163	1784.370	1774.254	1778.145	1771.141
<b>13.5</b>	1807.715	1778.145	1768.806	1771.919	1765.694
<b>14.0</b>	1802.268	1772.697	1762.581	1766.472	1760.246
<b>14.5</b>	1796.821	1767.250	1756.355	1760.246	1754.021
<b>15.0</b>	1791.374	1761.025	1750.130	1754.021	1747.795
<b>15.5</b>	1784.370	1755.577	1743.905	1747.017	1740.792
<b>16.0</b>	1776.588	1749.352	1736.901	1740.792	1734.566
<b>16.5</b>	1768.806	1742.348	1729.897	1733.788	1727.563
<b>17.0</b>	1761.803	1735.345	1722.894	1726.785	1720.559
<b>17.5</b>	1754.021	1727.563	1715.112	1719.003	1712.777
<b>18.0</b>	1746.239	1719.781	1707.330	1711.221	1704.995
<b>18.5</b>	1738.457	1711.999	1699.548	1702.661	1697.214
<b>19.0</b>	1730.675	1704.217	1692.545	1694.879	1687.876
<b>19.5</b>	1722.115	1696.436	1684.763	1685.541	1678.537
<b>20.0</b>	1714.334	1687.876	1677.759	1676.981	1669.199
<b>20.5</b>	1705.774	1680.094	1669.977	1667.643	1659.861
<b>21.0</b>	1697.214	1671.534	1661.417	1658.305	1649.745
<b>21.5</b>	1687.876	1662.974	1652.079	1648.966	1639.628
<b>22.0</b>	1679.316	1653.636	1641.963	1638.850	1630.290
<b>22.5</b>	1669.977	1644.297	1632.625	1628.734	1620.174
<b>23.0</b>	1660.639	1634.959	1623.286	1617.839	1610.057
<b>23.5</b>	1651.301	1625.621	1613.170	1607.723	1600.719
<b>24.0</b>	1641.185	1616.283	1603.832	1597.606	1590.603
<b>24.5</b>	1631.068	1606.166	1593.716	1587.490	1580.486
<b>25.0</b>	1621.730	1596.050	1583.599	1577.374	1570.370
<b>25.5</b>	1611.614	1585.934	1572.705	1567.257	1559.476
<b>26.0</b>	1600.719	1575.039	1562.588	1557.141	1549.359
<b>26.5</b>	1590.603	1564.923	1551.694	1547.025	1539.243

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27.0	1579.708	1554.028	1540.799	1536.908	1528.348
27.5	1568.814	1543.134	1530.683	1526.792	1518.232
28.0	1557.919	1531.461	1519.010	1515.897	1507.337
28.5	1546.246	1519.788	1508.116	1505.781	1496.443
29.0	1534.574	1508.894	1497.221	1494.887	1485.548
29.5	1523.679	1497.221	1486.327	1483.214	1475.432
30.0	1512.007	1485.548	1475.432	1472.319	1464.537
30.5	1500.334	1473.876	1463.759	1461.425	1453.643
31.0	1487.883	1462.981	1452.087	1449.752	1442.748
31.5	1476.210	1451.308	1440.414	1438.079	1431.076
32.0	1463.759	1438.857	1428.741	1425.628	1419.403
32.5	1451.308	1427.185	1417.068	1413.956	1406.952
33.0	1438.857	1415.512	1405.396	1402.283	1394.501
33.5	1427.185	1403.061	1392.945	1389.832	1382.828
34.0	1413.956	1390.610	1381.272	1377.381	1370.377
34.5	1401.505	1378.159	1368.043	1364.930	1357.148
35.0	1389.054	1366.487	1355.592	1352.479	1343.919
35.5	1375.825	1353.257	1343.141	1340.028	1330.690
36.0	1362.596	1340.807	1330.690	1326.799	1318.239
36.5	1350.145	1328.356	1318.239	1314.348	1305.788
37.0	1336.916	1315.127	1305.010	1301.119	1292.559
37.5	1323.687	1301.898	1292.559	1287.890	1280.108
38.0	1309.679	1288.668	1279.330	1274.661	1266.879
38.5	1296.450	1275.439	1266.101	1262.210	1253.650
39.0	1283.999	1262.210	1252.872	1248.981	1241.199
39.5	1269.992	1248.981	1240.421	1235.752	1227.192
40.0	1256.763	1234.974	1227.192	1222.523	1214.741
40.5	1242.756	1221.745	1213.963	1209.294	1201.512
41.0	1229.527	1207.738	1200.734	1195.287	1187.505
41.5	1215.519	1194.508	1186.727	1182.058	1173.498
42.0	1202.290	1180.501	1173.498	1168.828	1160.269
42.5	1189.061	1167.272	1160.269	1154.821	1147.039
43.0	1175.054	1154.043	1147.039	1141.592	1133.032
43.5	1161.825	1140.036	1133.032	1128.363	1119.803
44.0	1147.818	1126.029	1119.025	1114.356	1106.574
44.5	1133.810	1112.021	1105.018	1100.349	1092.567
45.0	1119.803	1098.792	1091.789	1086.341	1079.338
45.5	1106.574	1084.785	1077.781	1073.112	1066.109
46.0	1092.567	1070.778	1063.774	1059.105	1052.879
46.5	1078.559	1056.770	1050.545	1045.876	1039.650
47.0	1064.552	1042.763	1036.538	1031.869	1025.643
47.5	1049.767	1028.756	1022.530	1017.861	1012.414
48.0	1035.759	1014.749	1008.523	1004.632	998.407
48.5	1021.752	1000.741	995.294	990.625	984.399
49.0	1006.967	986.734	981.287	976.618	971.170
49.5	992.959	972.727	967.280	963.389	957.941
50.0	978.174	958.720	953.272	949.381	943.934
50.5	963.389	944.712	939.265	935.374	930.705
51.0	948.603	930.705	925.258	921.367	916.698
51.5	934.596	916.698	911.250	908.138	902.690
52.0	920.589	902.690	897.243	894.130	889.461
52.5	905.803	888.683	883.236	880.901	875.454
53.0	891.796	874.676	869.229	866.894	861.447
53.5	877.010	860.669	855.221	852.887	847.440
54.0	863.003	846.661	841.992	839.658	833.432
54.5	848.996	833.432	827.985	825.650	819.425

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55.0	834.989	820.203	814.756	812.421	806.196
55.5	821.760	806.196	800.749	798.414	792.967
56.0	806.974	792.189	786.741	785.185	778.960
56.5	792.967	778.960	773.123	771.411	765.264
57.0	779.738	764.952	759.349	757.482	751.645
57.5	766.042	751.412	745.653	743.941	737.872
58.0	752.346	738.027	731.880	730.323	724.253
58.5	738.572	724.565	718.339	716.939	711.180
59.0	725.032	711.024	704.721	703.398	697.873
59.5	711.880	697.328	690.869	689.936	684.722
60.0	698.418	683.710	677.174	676.395	671.337
60.5	685.111	670.403	663.944	662.777	657.797
61.0	672.038	657.096	650.793	649.470	644.568
61.5	658.030	643.945	637.720	636.241	631.494
62.0	644.256	630.405	624.179	623.090	618.110
62.5	630.171	617.876	611.417	610.561	605.425
63.0	616.631	606.826	601.612	601.223	597.021
63.5	602.935	594.764	590.640	589.784	585.426
64.0	594.686	583.014	579.278	577.566	572.586
64.5	581.846	570.485	566.438	564.882	560.213
65.0	567.450	557.100	553.754	552.275	547.762
65.5	552.742	543.560	540.525	539.824	535.233
66.0	538.579	530.331	527.607	527.296	522.393
66.5	524.572	516.790	514.456	514.456	510.098
67.0	510.720	503.328	501.460	501.694	497.725
67.5	497.102	490.099	488.387	488.854	484.963
68.0	483.328	476.870	475.313	475.936	471.889
68.5	469.477	463.407	462.162	463.018	459.049
69.0	455.158	449.867	448.933	449.400	445.742
69.5	441.229	436.560	435.470	436.015	432.669
70.0	427.455	423.097	422.319	422.553	419.595
70.5	413.915	409.557	409.012	409.246	406.444
71.0	400.063	396.094	395.939	396.250	393.215
71.5	386.211	382.632	382.943	383.177	380.531
72.0	372.749	369.091	369.714	370.025	367.769
72.5	359.286	355.785	356.796	357.107	355.240
73.0	345.979	342.789	344.190	344.579	342.945
73.5	333.062	329.949	331.583	332.283	330.494
74.0	320.300	317.109	319.132	319.677	318.510
74.5	307.537	304.502	306.759	307.304	306.448
75.0	294.697	291.974	294.542	295.086	294.386
75.5	282.013	279.445	282.402	283.102	282.324
76.0	269.173	267.383	270.418	271.196	270.574
76.5	257.033	255.477	258.512	259.368	258.823
77.0	245.205	243.493	246.839	247.617	246.761
77.5	232.987	231.820	235.166	235.789	234.933
78.0	221.081	220.148	223.494	224.427	223.572
78.5	209.253	208.786	211.977	213.066	212.366
79.0	197.892	197.425	200.693	202.016	201.471
79.5	186.530	186.297	189.565	190.966	190.499
80.0	175.324	175.402	178.437	180.382	179.760
80.5	164.041	164.741	167.854	169.721	169.255
81.0	153.224	154.313	157.348	159.294	158.982
81.5	142.796	143.964	147.076	149.022	148.788
82.0	133.069	133.847	137.038	139.061	138.828
82.5	123.342	124.042	127.155	129.178	129.022

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83.0	113.614	114.704	117.428	119.529	119.684
83.5	104.043	105.366	108.012	110.035	110.502
84.0	95.094	96.183	98.673	100.619	101.319
84.5	85.989	87.156	89.491	91.436	92.137
85.0	77.507	78.441	80.620	82.332	82.954
85.5	69.258	69.725	71.593	73.383	74.005
86.0	61.165	61.321	62.955	64.589	65.367
86.5	53.150	53.150	54.628	56.107	56.807
87.0	45.057	45.057	46.146	48.014	48.558
87.5	37.041	37.119	38.131	39.998	40.699
88.0	29.415	29.337	30.349	32.372	33.151
88.5	22.100	21.633	22.956	24.746	25.836
89.0	14.319	14.085	15.875	17.587	18.754
89.5	6.615	7.860	9.494	10.817	11.206
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.803	2.531	2.337	2.272	2.466
91.0	10.580	5.582	4.544	4.479	4.414
91.5	17.006	11.359	6.750	6.685	6.621
92.0	23.496	18.888	9.736	8.698	8.698
92.5	30.247	26.677	15.059	10.904	10.710
93.0	37.257	34.141	21.290	14.474	13.046
93.5	44.332	41.281	27.975	19.537	17.006
94.0	51.277	48.291	35.375	25.574	22.393
94.5	58.417	55.301	43.098	31.805	28.235
95.0	65.427	62.506	50.693	38.166	34.011
95.5	72.437	69.256	58.092	44.721	40.113
96.0	79.122	76.136	65.362	51.536	46.344
96.5	85.872	83.017	72.631	58.482	52.770
97.0	92.428	89.767	79.836	65.427	59.585
97.5	99.178	96.582	87.106	72.502	66.400
98.0	105.864	103.268	94.181	79.512	73.280
98.5	112.549	110.018	100.996	86.651	80.161
99.0	119.365	116.963	107.941	93.467	87.106
99.5	126.245	123.843	114.951	100.282	93.921
100.0	132.995	130.788	121.961	107.292	100.606
100.5	140.005	137.733	128.971	114.562	107.357
101.0	147.210	144.679	136.111	121.896	114.691
101.5	154.544	151.753	143.380	129.231	122.285
102.0	161.684	159.088	150.650	136.565	129.815
102.5	169.149	166.358	158.179	143.900	137.279
103.0	176.808	173.887	165.644	151.169	144.873
103.5	184.467	181.546	173.562	158.958	152.403
104.0	192.321	189.270	181.611	167.007	160.256
104.5	200.434	197.318	189.659	175.250	168.110
105.0	208.742	205.562	197.643	183.363	176.094
105.5	217.245	213.935	205.886	191.542	184.012
106.0	225.878	222.373	214.259	199.850	191.931
106.5	234.575	231.070	223.022	208.223	199.915
107.0	243.857	240.157	232.368	217.115	208.612
107.5	253.463	249.504	241.845	226.527	218.024
108.0	263.005	259.110	251.516	236.717	227.695
108.5	273.065	268.911	261.187	246.908	237.691
109.0	283.386	278.907	271.118	257.228	247.816
109.5	293.965	289.292	281.568	267.483	258.072
110.0	305.259	299.937	292.278	277.998	268.781
110.5	316.813	310.841	303.247	289.292	279.881

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111.0	328.496	322.265	314.606	301.040	291.045
111.5	340.439	334.013	326.160	312.983	302.533
112.0	352.836	346.086	337.648	324.926	313.503
112.5	365.299	358.483	349.267	336.804	325.121
113.0	378.345	371.270	361.534	349.072	337.259
113.5	391.781	384.641	374.516	362.313	350.305
114.0	405.411	398.272	388.276	376.398	364.779
114.5	419.496	412.357	402.296	391.067	380.162
115.0	433.776	426.831	416.835	405.866	395.740
115.5	448.705	441.435	431.764	420.600	411.123
116.0	463.763	456.623	447.212	436.113	426.766
116.5	479.665	472.201	463.179	452.015	443.447
117.0	496.217	488.103	479.276	469.150	460.648
117.5	508.419	500.501	494.010	484.923	478.108
118.0	523.997	514.975	509.133	501.215	493.621
118.5	542.106	532.240	524.581	516.338	507.576
119.0	559.826	549.246	542.106	533.474	523.089
119.5	577.741	567.355	560.670	550.869	540.484
120.0	596.239	586.114	579.298	569.887	558.852
120.5	614.608	605.131	598.511	590.073	578.455
121.0	633.885	624.539	617.853	610.194	599.290
121.5	652.968	643.751	637.131	630.575	619.671
122.0	673.089	663.353	657.512	651.021	640.117
122.5	692.562	682.826	677.633	671.142	659.459
123.0	712.683	703.596	698.403	693.211	680.878
123.5	733.453	724.366	720.472	715.279	702.947
124.0	754.224	745.786	741.891	737.348	725.664
124.5	774.994	766.556	763.311	758.767	747.733
125.0	795.764	787.326	784.081	780.187	769.152
125.5	817.184	808.746	805.500	801.606	789.923
126.0	837.954	829.516	827.569	823.025	810.693
126.5	858.725	850.287	849.638	845.743	832.762
127.0	880.144	871.706	871.706	868.461	856.128
127.5	901.563	892.476	892.476	890.529	879.495
128.0	922.334	913.247	913.896	912.598	901.563
128.5	943.104	933.368	934.666	934.666	922.983
129.0	963.874	953.489	955.437	956.086	945.051
129.5	984.645	974.260	976.856	978.154	967.769
130.0	1005.415	995.030	998.275	1000.223	991.785
130.5	1026.186	1015.151	1020.344	1021.642	1014.502
131.0	1046.956	1035.273	1041.114	1042.412	1035.273
131.5	1066.428	1054.745	1061.885	1061.885	1055.394
132.0	1086.549	1074.217	1082.006	1082.655	1074.866
132.5	1106.022	1094.338	1102.127	1102.776	1094.338
133.0	1125.494	1114.460	1121.599	1122.898	1113.161
133.5	1144.966	1133.932	1141.721	1143.019	1133.283
134.0	1164.438	1152.755	1160.544	1162.491	1152.755
134.5	1181.963	1171.578	1178.718	1180.016	1171.578
135.0	1199.488	1189.752	1196.243	1197.541	1188.454
135.5	1216.364	1208.575	1213.768	1214.417	1205.330
136.0	1233.240	1226.100	1229.995	1231.942	1222.855
136.5	1250.765	1242.976	1246.222	1249.467	1241.029
137.0	1266.992	1259.852	1263.097	1265.694	1257.905
137.5	1283.219	1275.430	1278.675	1280.622	1272.834
138.0	1298.797	1291.008	1293.604	1294.902	1287.113
138.5	1314.374	1305.936	1308.533	1309.182	1300.744

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-835U-L15-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1329.303	1320.865	1323.461	1323.461	1314.374
139.5	1344.232	1335.794	1337.741	1337.092	1327.356
140.0	1358.511	1349.424	1352.021	1351.372	1341.635
140.5	1372.142	1362.406	1365.002	1364.353	1353.968
141.0	1385.772	1376.036	1377.984	1376.685	1366.300
141.5	1398.105	1388.369	1390.965	1389.018	1377.334
142.0	1411.086	1401.350	1403.297	1400.701	1389.018
142.5	1423.419	1413.683	1415.630	1413.034	1400.052
143.0	1435.751	1425.366	1427.313	1424.717	1411.735
143.5	1447.434	1437.698	1438.996	1436.400	1422.770
144.0	1458.469	1449.382	1450.031	1446.785	1433.155
144.5	1469.503	1460.416	1461.065	1457.171	1443.540
145.0	1479.888	1471.450	1471.450	1466.907	1453.276
145.5	1490.922	1482.484	1481.835	1477.941	1463.661
146.0	1501.308	1492.870	1492.221	1487.677	1474.046
146.5	1511.693	1503.255	1501.957	1498.062	1484.432
147.0	1521.429	1513.640	1511.044	1508.447	1494.817
147.5	1531.165	1523.376	1520.780	1518.183	1504.553
148.0	1540.901	1533.112	1529.218	1527.270	1514.938
148.5	1550.637	1542.848	1537.656	1536.358	1525.323
149.0	1559.724	1552.584	1546.094	1545.445	1535.708
149.5	1568.811	1561.671	1553.883	1554.532	1545.445
150.0	1577.898	1570.758	1562.320	1562.970	1554.532
150.5	1586.985	1579.845	1570.109	1570.758	1563.619
151.0	1595.423	1588.283	1577.898	1578.547	1572.057
151.5	1604.510	1596.721	1586.336	1586.336	1579.845
152.0	1612.948	1605.159	1594.125	1593.476	1587.634
152.5	1621.386	1612.948	1601.914	1601.265	1594.774
153.0	1629.824	1620.737	1609.703	1609.054	1601.265
153.5	1637.613	1628.526	1617.492	1616.843	1607.107
154.0	1645.402	1636.315	1625.930	1624.632	1613.597
154.5	1653.840	1643.455	1633.719	1631.771	1620.088
155.0	1661.629	1650.594	1641.507	1639.560	1627.228
155.5	1668.769	1657.085	1649.296	1647.349	1634.368
156.0	1675.908	1664.225	1657.734	1654.489	1641.507
156.5	1683.048	1671.365	1665.523	1662.278	1648.647
157.0	1690.188	1678.505	1673.312	1670.067	1655.787
157.5	1696.679	1684.995	1680.452	1677.207	1662.927
158.0	1703.169	1691.486	1687.592	1684.346	1670.067
158.5	1710.309	1698.626	1694.732	1691.486	1677.856
159.0	1716.151	1705.117	1701.222	1698.626	1684.995
159.5	1722.642	1711.607	1707.713	1705.766	1692.135
160.0	1728.483	1717.449	1714.204	1712.256	1699.275
160.5	1734.325	1723.291	1720.045	1718.747	1706.415
161.0	1740.167	1729.132	1725.887	1725.238	1713.555
161.5	1746.008	1735.623	1731.080	1731.729	1720.694
162.0	1752.499	1741.465	1736.272	1738.219	1727.185
162.5	1758.341	1747.306	1741.465	1744.061	1733.027
163.0	1764.182	1753.148	1746.657	1749.903	1738.869
163.5	1770.024	1758.341	1751.850	1755.744	1744.061
164.0	1775.866	1763.533	1756.394	1760.937	1749.254
164.5	1780.409	1768.726	1760.937	1766.130	1754.446
165.0	1785.602	1773.919	1765.481	1771.322	1758.990
165.5	1790.794	1778.462	1770.024	1775.866	1763.533
166.0	1795.987	1783.006	1774.568	1780.409	1767.428
166.5	1801.180	1787.549	1779.111	1784.304	1771.971

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-835U-L15-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1805.723	1791.443	1783.006	1788.198	1775.866
167.5	1810.267	1795.338	1787.549	1792.093	1780.409
168.0	1814.810	1799.232	1791.443	1795.987	1784.304
168.5	1819.354	1803.127	1795.338	1799.881	1788.847
169.0	1823.248	1806.372	1799.232	1803.127	1792.742
169.5	1826.493	1809.618	1802.478	1806.372	1796.636
170.0	1829.739	1812.863	1805.723	1809.618	1801.180
170.5	1832.984	1816.108	1808.319	1812.863	1804.425
171.0	1836.230	1818.705	1810.916	1816.108	1807.670
171.5	1838.826	1821.301	1813.512	1819.354	1810.916
172.0	1841.422	1823.897	1815.459	1821.950	1813.512
172.5	1844.018	1826.493	1817.406	1823.897	1815.459
173.0	1846.615	1829.090	1819.354	1826.493	1816.757
173.5	1848.562	1831.037	1821.301	1827.792	1818.056
174.0	1850.509	1832.984	1823.248	1829.090	1818.705
174.5	1851.807	1834.282	1824.546	1830.388	1819.354
175.0	1853.105	1836.230	1825.844	1831.037	1819.354
175.5	1854.404	1837.528	1827.792	1831.686	1820.003
176.0	1855.702	1838.826	1829.090	1831.686	1820.003
176.5	1856.351	1840.124	1829.739	1832.335	1820.003
177.0	1857.000	1841.422	1831.037	1832.335	1819.354
177.5	1858.298	1842.720	1832.335	1832.335	1819.354
178.0	1858.947	1842.720	1832.984	1832.335	1820.003
178.5	1858.947	1843.369	1833.633	1832.335	1820.003
179.0	1859.596	1844.018	1833.633	1832.335	1820.003
179.5	1860.245	1844.018	1834.282	1832.335	1820.003
180.0	1837.528	1837.528	1837.528	1837.528	1837.528



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-835U-L15-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	670.48	N.A.	7.10
0-30	1401.73	N.A.	14.90
0-40	2251.9	N.A.	23.90
0-60	3826.49	N.A.	40.60
0-80	4685.97	N.A.	49.70
0-90	4776.78	N.A.	50.70
10-90	4601.77	N.A.	48.80
20-40	1581.43	N.A.	16.80
20-50	2425.39	N.A.	25.70
40-70	2121.81	N.A.	22.50
60-80	859.48	N.A.	9.10
70-80	312.26	N.A.	3.30
80-90	90.81	N.A.	1.00
90-110	265.92	N.A.	2.80
90-120	682.65	N.A.	7.20
90-130	1382.93	N.A.	14.70
90-150	3216.59	N.A.	34.10
90-180	4648.82	N.A.	49.30
110-180	4382.9	N.A.	46.50
0-180	9425.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	175.01
10-20	495.47
20-30	731.26
30-40	850.17
40-50	843.97
50-60	730.62
60-70	547.22
70-80	312.26
80-90	90.81
90-100	57.36
100-110	208.57
110-120	416.72
120-130	700.28
130-140	915.68
140-150	917.97
150-160	758.29
160-170	499.68
170-180	174.26

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-835U-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	39	35	38	34	30	31	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	25	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-L8-835U-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	16.7	17.6	17.7	18.6	19.8	16.6	17.5	17.6	18.5	19.7
	3H	18.5	19.3	19.4	20.2	21.5	18.4	19.2	19.3	20.1	21.4
	4H	19.1	19.8	20.1	20.8	22.1	19.0	19.8	20.0	20.7	22.0
	6H	19.5	20.2	20.5	21.2	22.5	19.5	20.2	20.5	21.1	22.4
	8H	19.7	20.3	20.6	21.3	22.6	19.6	20.3	20.6	21.3	22.6
	12H	19.7	20.4	20.7	21.3	22.7	19.7	20.3	20.7	21.3	22.7

### UGR Viewed Endwise

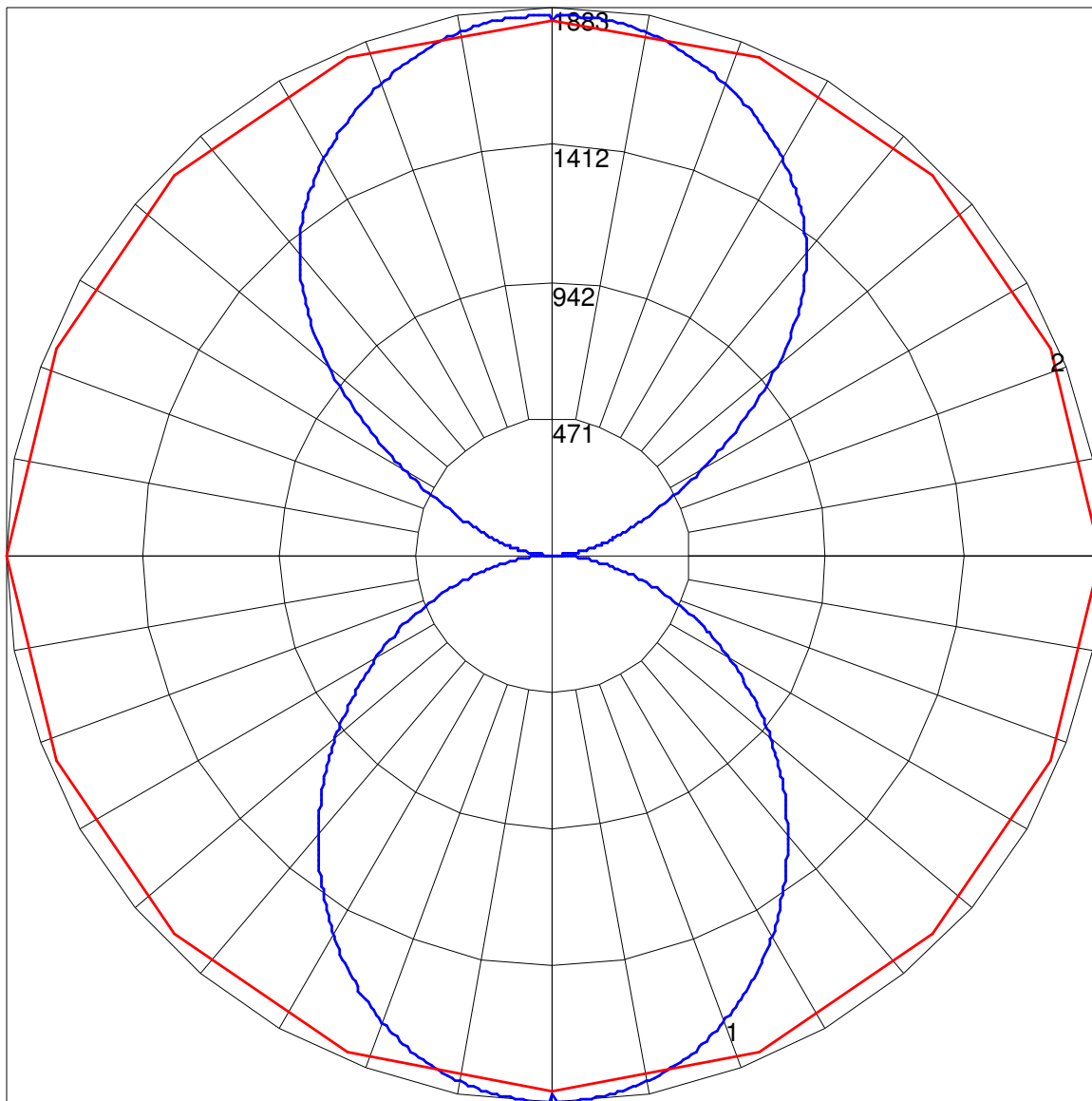
4H	2H	17.2	18.0	18.2	19.0	20.3	17.2	17.9	18.1	18.9	20.2
	3H	19.2	19.8	20.2	20.8	22.1	19.1	19.8	20.1	20.8	22.1
	4H	20.0	20.5	20.9	21.5	22.8	19.9	20.5	20.9	21.5	22.8
	6H	20.5	21.0	21.5	22.0	23.3	20.5	21.0	21.5	22.0	23.3
	8H	20.7	21.1	21.7	22.2	23.5	20.7	21.1	21.7	22.2	23.5
	12H	20.8	21.2	21.8	22.2	23.6	20.8	21.2	21.9	22.3	23.6

8H	4H	20.2	20.7	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	21.9	22.3	23.7	20.9	21.3	21.9	22.3	23.6
	8H	21.2	21.5	22.2	22.5	23.9	21.2	21.5	22.2	22.5	23.9
	12H	21.3	21.6	22.4	22.7	24.1	21.4	21.7	22.4	22.7	24.1

12H	4H	20.2	20.6	21.2	21.6	23.0	20.1	20.6	21.2	21.6	22.9
	6H	20.9	21.3	22.0	22.3	23.7	20.9	21.3	22.0	22.3	23.7
	8H	21.2	21.5	22.3	22.6	24.0	21.2	21.5	22.3	22.6	24.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1883.199 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.)