

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-835U-L8-835D-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-L8-835D-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	9466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	12721	12403	12261
55	11694	11410	11290
65	10785	10525	10411
75	9146	9141	9137
85	7143	7430	7645

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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	1845.816	1845.816	1845.816	1845.816	1845.816
0.5	1873.689	1847.364	1838.073	1841.945	1835.750
1.0	1873.689	1846.590	1838.073	1841.945	1835.750
1.5	1872.915	1845.816	1837.299	1841.945	1834.976
2.0	1872.140	1845.042	1836.525	1841.170	1834.976
2.5	1871.366	1844.267	1834.976	1840.396	1834.202
3.0	1869.818	1842.719	1834.202	1839.622	1832.653
3.5	1868.269	1841.170	1832.653	1838.073	1831.105
4.0	1866.721	1839.622	1831.105	1836.525	1829.556
4.5	1865.172	1837.299	1829.556	1834.976	1827.234
5.0	1863.624	1835.750	1827.234	1832.653	1824.911
5.5	1861.301	1833.428	1824.911	1830.331	1822.588
6.0	1858.978	1830.331	1822.588	1828.008	1819.491
6.5	1855.881	1828.008	1819.491	1824.911	1817.168
7.0	1853.558	1824.911	1817.168	1821.814	1814.071
7.5	1851.236	1821.814	1814.071	1818.717	1811.749
8.0	1847.364	1818.717	1810.200	1815.620	1808.652
8.5	1844.267	1814.846	1806.329	1811.749	1804.780
9.0	1840.396	1811.749	1803.232	1807.877	1800.909
9.5	1836.525	1807.877	1798.586	1803.232	1797.038
10.0	1832.653	1804.006	1794.715	1799.361	1792.392
10.5	1828.008	1799.361	1790.070	1794.715	1788.521
11.0	1824.137	1794.715	1785.424	1790.070	1783.101
11.5	1818.717	1790.070	1780.779	1785.424	1778.456
12.0	1814.071	1785.424	1776.133	1780.004	1773.036
12.5	1809.426	1780.004	1770.713	1774.585	1767.616
13.0	1804.006	1775.359	1765.294	1769.165	1762.197
13.5	1798.586	1769.165	1759.874	1762.971	1756.777
14.0	1793.167	1763.745	1753.680	1757.551	1751.357
14.5	1787.747	1758.325	1747.486	1751.357	1745.163
15.0	1782.327	1752.131	1741.292	1745.163	1738.969
15.5	1775.359	1746.712	1735.098	1738.195	1732.001
16.0	1767.616	1740.518	1728.130	1732.001	1725.807
16.5	1759.874	1733.549	1721.161	1725.033	1718.839
17.0	1752.906	1726.581	1714.193	1718.064	1711.870
17.5	1745.163	1718.839	1706.450	1710.322	1704.128
18.0	1737.421	1711.096	1698.708	1702.579	1696.385
18.5	1729.678	1703.353	1690.965	1694.062	1688.643
19.0	1721.936	1695.611	1683.997	1686.320	1679.352
19.5	1713.419	1687.868	1676.255	1677.029	1670.061
20.0	1705.676	1679.352	1669.286	1668.512	1660.770
20.5	1697.159	1671.609	1661.544	1659.221	1651.479
21.0	1688.643	1663.092	1653.027	1649.930	1641.413
21.5	1679.352	1654.576	1643.736	1640.639	1631.348
22.0	1670.835	1645.285	1633.671	1630.574	1622.057
22.5	1661.544	1635.994	1624.380	1620.509	1611.992
23.0	1652.253	1626.703	1615.089	1609.669	1601.927
23.5	1642.962	1617.412	1605.024	1599.604	1592.636
24.0	1632.897	1608.121	1595.733	1589.538	1582.570
24.5	1622.831	1598.055	1585.667	1579.473	1572.505
25.0	1613.540	1587.990	1575.602	1569.408	1562.440
25.5	1603.475	1577.925	1564.762	1559.343	1551.600
26.0	1592.636	1567.085	1554.697	1549.277	1541.535
26.5	1582.570	1557.020	1543.858	1539.212	1531.470

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27.0	1571.731	1546.180	1533.018	1529.147	1520.630
27.5	1560.891	1535.341	1522.953	1519.082	1510.565
28.0	1550.052	1523.727	1511.339	1508.242	1499.725
28.5	1538.438	1512.113	1500.500	1498.177	1488.886
29.0	1526.824	1501.274	1489.660	1487.337	1478.046
29.5	1515.985	1489.660	1478.821	1475.724	1467.981
30.0	1504.371	1478.046	1467.981	1464.884	1457.141
30.5	1492.757	1466.432	1456.367	1454.044	1446.302
31.0	1480.369	1455.593	1444.753	1442.431	1435.462
31.5	1468.755	1443.979	1433.140	1430.817	1423.849
32.0	1456.367	1431.591	1421.526	1418.429	1412.235
32.5	1443.979	1419.977	1409.912	1406.815	1399.847
33.0	1431.591	1408.364	1398.298	1395.201	1387.459
33.5	1419.977	1395.976	1385.910	1382.813	1375.845
34.0	1406.815	1383.588	1374.297	1370.425	1363.457
34.5	1394.427	1371.200	1361.134	1358.037	1350.295
35.0	1382.039	1359.586	1348.746	1345.649	1337.132
35.5	1368.877	1346.423	1336.358	1333.261	1323.970
36.0	1355.715	1334.035	1323.970	1320.099	1311.582
36.5	1343.326	1321.647	1311.582	1307.711	1299.194
37.0	1330.164	1308.485	1298.420	1294.549	1286.032
37.5	1317.002	1295.323	1286.032	1281.386	1273.644
38.0	1303.065	1282.161	1272.870	1268.224	1260.482
38.5	1289.903	1268.998	1259.707	1255.836	1247.319
39.0	1277.515	1255.836	1246.545	1242.674	1234.931
39.5	1263.579	1242.674	1234.157	1229.512	1220.995
40.0	1250.416	1228.737	1220.995	1216.349	1208.607
40.5	1236.480	1215.575	1207.832	1203.187	1195.444
41.0	1223.317	1201.638	1194.670	1189.250	1181.508
41.5	1209.381	1188.476	1180.734	1176.088	1167.571
42.0	1196.219	1174.540	1167.571	1162.926	1154.409
42.5	1183.056	1161.377	1154.409	1148.989	1141.247
43.0	1169.120	1148.215	1141.247	1135.827	1127.310
43.5	1155.958	1134.279	1127.310	1122.665	1114.148
44.0	1142.021	1120.342	1113.374	1108.728	1100.986
44.5	1128.085	1106.406	1099.437	1094.792	1087.049
45.0	1114.148	1093.243	1086.275	1080.855	1073.887
45.5	1100.986	1079.307	1072.338	1067.693	1060.725
46.0	1087.049	1065.370	1058.402	1053.756	1047.562
46.5	1073.113	1051.434	1045.240	1040.594	1034.400
47.0	1059.176	1037.497	1031.303	1026.658	1020.464
47.5	1044.465	1023.561	1017.367	1012.721	1007.301
48.0	1030.529	1009.624	1003.430	999.559	993.365
48.5	1016.592	995.688	990.268	985.622	979.428
49.0	1001.882	981.751	976.331	971.686	966.266
49.5	987.945	967.814	962.395	958.523	953.104
50.0	973.234	953.878	948.458	944.587	939.167
50.5	958.523	939.941	934.522	930.650	926.005
51.0	943.813	926.005	920.585	916.714	912.068
51.5	929.876	912.068	906.649	903.552	898.132
52.0	915.940	898.132	892.712	889.615	884.970
52.5	901.229	884.195	878.776	876.453	871.033
53.0	887.292	870.259	864.839	862.516	857.096
53.5	872.582	856.322	850.902	848.580	843.160
54.0	858.645	842.386	837.740	835.417	829.223
54.5	844.708	829.223	823.804	821.481	815.287

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55.0	830.772	816.061	810.641	808.319	802.125
55.5	817.610	802.125	796.705	794.382	788.962
56.0	802.899	788.188	782.768	781.220	775.026
56.5	788.962	775.026	769.219	767.516	761.399
57.0	775.800	761.089	755.515	753.656	747.850
57.5	762.173	747.617	741.888	740.185	734.145
58.0	748.546	734.300	728.184	726.635	720.596
58.5	734.842	720.906	714.712	713.318	707.589
59.0	721.370	707.434	701.162	699.846	694.349
59.5	708.285	693.807	687.381	686.451	681.264
60.0	694.891	680.257	673.754	672.979	667.947
60.5	681.651	667.018	660.591	659.430	654.475
61.0	668.644	653.778	647.507	646.190	641.313
61.5	654.707	640.693	634.499	633.028	628.305
62.0	641.003	627.221	621.027	619.943	614.988
62.5	626.989	614.756	608.329	607.478	602.368
63.0	613.517	603.761	598.574	598.187	594.006
63.5	599.890	591.760	587.657	586.805	582.469
64.0	591.683	580.069	576.353	574.650	569.694
64.5	578.908	567.604	563.578	562.029	557.384
65.0	564.584	554.287	550.957	549.486	544.996
65.5	549.951	540.815	537.795	537.098	532.530
66.0	535.860	527.652	524.943	524.633	519.755
66.5	521.923	514.180	511.858	511.858	507.522
67.0	508.141	500.786	498.928	499.160	495.211
67.5	494.592	487.624	485.920	486.385	482.514
68.0	480.888	474.461	472.913	473.532	469.506
68.5	467.106	461.067	459.828	460.680	456.731
69.0	452.860	447.595	446.666	447.130	443.491
69.5	439.001	434.355	433.271	433.813	430.484
70.0	425.296	420.961	420.186	420.419	417.476
70.5	411.824	407.489	406.947	407.179	404.392
71.0	398.043	394.094	393.939	394.249	391.229
71.5	384.261	380.700	381.009	381.241	378.609
72.0	370.867	367.228	367.847	368.157	365.911
72.5	357.472	353.988	354.994	355.304	353.446
73.0	344.232	341.058	342.451	342.839	341.213
73.5	331.380	328.283	329.909	330.605	328.825
74.0	318.682	315.508	317.521	318.063	316.901
74.5	305.984	302.965	305.210	305.752	304.900
75.0	293.209	290.499	293.054	293.596	292.899
75.5	280.589	278.034	280.976	281.673	280.898
76.0	267.814	266.033	269.052	269.827	269.207
76.5	255.735	254.187	257.206	258.058	257.516
77.0	243.967	242.263	245.593	246.367	245.515
77.5	231.811	230.650	233.979	234.598	233.747
78.0	219.965	219.036	222.365	223.294	222.442
78.5	208.196	207.732	210.906	211.990	211.293
79.0	196.892	196.428	199.679	200.996	200.454
79.5	185.588	185.356	188.608	190.001	189.537
80.0	174.439	174.516	177.536	179.472	178.852
80.5	163.212	163.909	167.006	168.864	168.400
81.0	152.450	153.534	156.554	158.489	158.180
81.5	142.075	143.237	146.334	148.269	148.037
82.0	132.397	133.171	136.346	138.359	138.126
82.5	122.719	123.416	126.513	128.526	128.371

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83.0	113.041	114.125	116.835	118.925	119.080
83.5	103.517	104.834	107.466	109.479	109.944
84.0	94.614	95.697	98.175	100.111	100.808
84.5	85.555	86.716	89.039	90.975	91.671
85.0	77.115	78.045	80.212	81.916	82.535
85.5	68.908	69.373	71.231	73.012	73.631
86.0	60.856	61.011	62.637	64.263	65.037
86.5	52.881	52.881	54.352	55.824	56.520
87.0	44.829	44.829	45.913	47.771	48.313
87.5	36.854	36.932	37.938	39.797	40.493
88.0	29.267	29.189	30.196	32.209	32.983
88.5	21.989	21.524	22.840	24.621	25.705
89.0	14.246	14.014	15.795	17.498	18.659
89.5	6.581	7.820	9.446	10.762	11.149
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.870	2.567	2.369	2.303	2.501
91.0	10.727	5.660	4.607	4.541	4.475
91.5	17.243	11.517	6.844	6.779	6.713
92.0	23.824	19.151	9.872	8.819	8.819
92.5	30.668	27.048	15.268	11.056	10.859
93.0	37.776	34.617	21.586	14.676	13.228
93.5	44.949	41.856	28.365	19.809	17.243
94.0	51.991	48.964	35.867	25.930	22.705
94.5	59.230	56.071	43.699	32.248	28.628
95.0	66.338	63.376	51.399	38.697	34.485
95.5	73.446	70.221	58.901	45.344	40.671
96.0	80.224	77.197	66.272	52.254	46.989
96.5	87.068	84.173	73.643	59.296	53.505
97.0	93.715	91.017	80.948	66.338	60.415
97.5	100.560	97.927	88.319	73.511	67.325
98.0	107.338	104.706	95.492	80.619	74.301
98.5	114.117	111.550	102.403	87.858	81.277
99.0	121.027	118.592	109.444	94.768	88.319
99.5	128.003	125.568	116.552	101.679	95.229
100.0	134.848	132.610	123.660	108.786	102.008
100.5	141.955	139.652	130.767	116.157	108.852
101.0	149.260	146.694	138.006	123.594	116.289
101.5	156.697	153.867	145.377	131.030	123.989
102.0	163.936	161.304	152.748	138.467	131.623
102.5	171.504	168.675	160.382	145.904	139.191
103.0	179.270	176.309	167.951	153.275	146.891
103.5	187.036	184.074	175.980	161.172	154.525
104.0	194.999	191.906	184.140	169.333	162.488
104.5	203.226	200.067	192.301	177.691	170.451
105.0	211.649	208.425	200.396	185.917	178.546
105.5	220.271	216.914	208.754	194.209	186.575
106.0	229.024	225.470	217.243	202.633	194.604
106.5	237.842	234.289	226.128	211.123	202.699
107.0	247.253	243.502	235.605	220.139	211.518
107.5	256.993	252.979	245.213	229.682	221.060
108.0	266.668	262.719	255.019	240.014	230.866
108.5	276.868	272.657	264.825	250.347	241.001
109.0	287.333	282.792	274.894	260.811	251.268
109.5	298.060	293.321	285.490	271.209	261.666
110.0	309.511	304.114	296.349	281.870	272.525
110.5	321.225	315.171	307.471	293.321	283.779

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111.0	333.071	326.754	318.988	305.233	295.098
111.5	345.181	338.665	330.702	317.342	306.747
112.0	357.751	350.906	342.351	329.452	317.869
112.5	370.386	363.476	354.131	341.495	329.649
113.0	383.615	376.441	366.569	353.934	341.956
113.5	397.238	389.998	379.732	367.359	355.184
114.0	411.058	403.819	393.684	381.640	369.860
114.5	425.339	418.100	407.899	396.514	385.457
115.0	439.817	432.776	422.641	411.519	401.252
115.5	454.954	447.583	437.777	426.458	416.849
116.0	470.222	462.983	453.440	442.187	432.710
116.5	486.346	478.778	469.630	458.310	449.623
117.0	503.128	494.902	485.951	475.685	467.063
117.5	515.501	507.472	500.890	491.677	484.767
118.0	531.295	522.148	516.224	508.196	500.496
118.5	549.657	539.653	531.888	523.530	514.645
119.0	567.623	556.896	549.657	540.904	530.374
119.5	585.787	575.257	568.479	558.541	548.011
120.0	604.543	594.277	587.367	577.824	566.636
120.5	623.168	613.560	606.847	598.291	586.511
121.0	642.714	633.237	626.459	618.693	607.637
121.5	662.063	652.717	646.005	639.358	628.301
122.0	682.464	672.592	666.669	660.088	649.032
122.5	702.207	692.336	687.071	680.490	668.644
123.0	722.609	713.395	708.130	702.866	690.361
123.5	743.669	734.455	730.506	725.241	712.737
124.0	764.728	756.173	752.224	747.617	735.771
124.5	785.788	777.232	773.942	769.335	758.147
125.0	806.848	798.292	795.002	791.053	779.865
125.5	828.565	820.010	816.719	812.771	800.925
126.0	849.625	841.069	839.095	834.488	821.984
126.5	870.685	862.129	861.471	857.522	844.360
127.0	892.402	883.847	883.847	880.556	868.052
127.5	914.120	904.907	904.907	902.932	891.744
128.0	935.180	925.966	926.624	925.308	914.120
128.5	956.239	946.368	947.684	947.684	935.838
129.0	977.299	966.769	968.744	969.402	958.214
129.5	998.359	987.829	990.461	991.778	981.248
130.0	1019.418	1008.889	1012.179	1014.153	1005.598
130.5	1040.478	1029.290	1034.555	1035.871	1028.632
131.0	1061.538	1049.692	1055.615	1056.931	1049.692
131.5	1081.281	1069.435	1076.674	1076.674	1070.093
132.0	1101.683	1089.178	1097.076	1097.734	1089.837
132.5	1121.426	1109.580	1117.477	1118.135	1109.580
133.0	1141.169	1129.981	1137.221	1138.537	1128.665
133.5	1160.913	1149.725	1157.622	1158.938	1149.067
134.0	1180.656	1168.810	1176.708	1178.682	1168.810
134.5	1198.425	1187.895	1195.135	1196.451	1187.895
135.0	1216.194	1206.323	1212.904	1214.220	1205.006
135.5	1233.305	1225.408	1230.673	1231.331	1222.117
136.0	1250.416	1243.177	1247.126	1249.100	1239.886
136.5	1268.185	1260.288	1263.579	1266.869	1258.314
137.0	1284.638	1277.399	1280.690	1283.322	1275.425
137.5	1301.091	1293.194	1296.484	1298.459	1290.561
138.0	1316.886	1308.988	1311.621	1312.937	1305.040
138.5	1332.681	1324.125	1326.758	1327.416	1318.860

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

139.0	1347.817	1339.262	1341.894	1341.894	1332.681
139.5	1362.954	1354.398	1356.373	1355.715	1345.843
140.0	1377.432	1368.219	1370.851	1370.193	1360.321
140.5	1391.253	1381.381	1384.013	1383.355	1372.825
141.0	1405.073	1395.201	1397.176	1395.859	1385.330
141.5	1417.577	1407.706	1410.338	1408.364	1396.518
142.0	1430.739	1420.868	1422.842	1420.210	1408.364
142.5	1443.244	1433.372	1435.346	1432.714	1419.552
143.0	1455.748	1445.218	1447.192	1444.560	1431.398
143.5	1467.594	1457.722	1459.038	1456.406	1442.586
144.0	1478.782	1469.568	1470.226	1466.936	1453.115
144.5	1489.970	1480.756	1481.414	1477.466	1463.645
145.0	1500.500	1491.944	1491.944	1487.337	1473.517
145.5	1511.687	1503.132	1502.474	1498.525	1484.047
146.0	1522.217	1513.662	1513.004	1508.397	1494.577
146.5	1532.747	1524.192	1522.875	1518.927	1505.106
147.0	1542.619	1534.721	1532.089	1529.457	1515.636
147.5	1552.491	1544.593	1541.961	1539.328	1525.508
148.0	1562.362	1554.465	1550.516	1548.542	1536.038
148.5	1572.234	1564.337	1559.072	1557.755	1546.568
149.0	1581.448	1574.208	1567.627	1566.969	1557.097
149.5	1590.661	1583.422	1575.525	1576.183	1566.969
150.0	1599.875	1592.636	1584.080	1584.738	1576.183
150.5	1609.088	1601.849	1591.977	1592.636	1585.396
151.0	1617.644	1610.405	1599.875	1600.533	1593.952
151.5	1626.857	1618.960	1608.430	1608.430	1601.849
152.0	1635.413	1627.516	1616.328	1615.669	1609.746
152.5	1643.968	1635.413	1624.225	1623.567	1616.986
153.0	1652.524	1643.310	1632.122	1631.464	1623.567
153.5	1660.421	1651.208	1640.020	1639.362	1629.490
154.0	1668.319	1659.105	1648.575	1647.259	1636.071
154.5	1676.874	1666.344	1656.473	1654.498	1642.652
155.0	1684.771	1673.584	1664.370	1662.396	1649.891
155.5	1692.011	1680.165	1672.267	1670.293	1657.131
156.0	1699.250	1687.404	1680.823	1677.532	1664.370
156.5	1706.489	1694.643	1688.720	1685.430	1671.609
157.0	1713.728	1701.882	1696.617	1693.327	1678.848
157.5	1720.310	1708.464	1703.857	1700.566	1686.088
158.0	1726.891	1715.045	1711.096	1707.805	1693.327
158.5	1734.130	1722.284	1718.335	1715.045	1701.224
159.0	1740.053	1728.865	1724.916	1722.284	1708.464
159.5	1746.634	1735.446	1731.498	1729.523	1715.703
160.0	1752.557	1741.369	1738.079	1736.104	1722.942
160.5	1758.480	1747.292	1744.002	1742.685	1730.181
161.0	1764.403	1753.215	1749.925	1749.267	1737.421
161.5	1770.326	1759.796	1755.190	1755.848	1744.660
162.0	1776.907	1765.719	1760.455	1762.429	1751.241
162.5	1782.830	1771.642	1765.719	1768.352	1757.164
163.0	1788.753	1777.565	1770.984	1774.275	1763.087
163.5	1794.676	1782.830	1776.249	1780.198	1768.352
164.0	1800.599	1788.095	1780.856	1785.463	1773.617
164.5	1805.206	1793.360	1785.463	1790.728	1778.882
165.0	1810.471	1798.625	1790.070	1795.993	1783.489
165.5	1815.736	1803.232	1794.676	1800.599	1788.095
166.0	1821.001	1807.839	1799.283	1805.206	1792.044
166.5	1826.266	1812.446	1803.890	1809.155	1796.651

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

167.0	1830.873	1816.394	1807.839	1813.104	1800.599
167.5	1835.480	1820.343	1812.446	1817.052	1805.206
168.0	1840.086	1824.292	1816.394	1821.001	1809.155
168.5	1844.693	1828.240	1820.343	1824.950	1813.762
169.0	1848.642	1831.531	1824.292	1828.240	1817.710
169.5	1851.932	1834.821	1827.582	1831.531	1821.659
170.0	1855.223	1838.112	1830.873	1834.821	1826.266
170.5	1858.513	1841.403	1833.505	1838.112	1829.556
171.0	1861.804	1844.035	1836.138	1841.403	1832.847
171.5	1864.437	1846.667	1838.770	1844.693	1836.138
172.0	1867.069	1849.300	1840.744	1847.326	1838.770
172.5	1869.701	1851.932	1842.719	1849.300	1840.744
173.0	1872.334	1854.565	1844.693	1851.932	1842.061
173.5	1874.308	1856.539	1846.667	1853.249	1843.377
174.0	1876.283	1858.513	1848.642	1854.565	1844.035
174.5	1877.599	1859.830	1849.958	1855.881	1844.693
175.0	1878.915	1861.804	1851.274	1856.539	1844.693
175.5	1880.231	1863.120	1853.249	1857.197	1845.351
176.0	1881.547	1864.437	1854.565	1857.197	1845.351
176.5	1882.206	1865.753	1855.223	1857.855	1845.351
177.0	1882.864	1867.069	1856.539	1857.855	1844.693
177.5	1884.180	1868.385	1857.855	1857.855	1844.693
178.0	1884.838	1868.385	1858.513	1857.855	1845.351
178.5	1884.838	1869.043	1859.172	1857.855	1845.351
179.0	1885.496	1869.701	1859.172	1857.855	1845.351
179.5	1886.154	1869.701	1859.830	1857.855	1845.351
180.0	1863.120	1863.120	1863.120	1863.120	1863.120



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

Zone	Lumens	%Lamp	%Fixt
0-20	667.09	N.A.	7.00
0-30	1394.65	N.A.	14.70
0-40	2240.53	N.A.	23.70
0-60	3807.17	N.A.	40.20
0-80	4662.3	N.A.	49.30
0-90	4752.66	N.A.	50.20
10-90	4578.54	N.A.	48.40
20-40	1573.44	N.A.	16.60
20-50	2413.15	N.A.	25.50
40-70	2111.09	N.A.	22.30
60-80	855.14	N.A.	9.00
70-80	310.68	N.A.	3.30
80-90	90.36	N.A.	1.00
90-110	269.63	N.A.	2.80
90-120	692.15	N.A.	7.30
90-130	1402.19	N.A.	14.80
90-150	3261.39	N.A.	34.50
90-180	4713.57	N.A.	49.80
110-180	4443.94	N.A.	46.90
0-180	9466.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.12
10-20	492.97
20-30	727.56
30-40	845.88
40-50	839.70
50-60	726.93
60-70	544.46
70-80	310.68
80-90	90.36
90-100	58.15
100-110	211.47
110-120	422.53
120-130	710.04
130-140	928.44
140-150	930.76
150-160	768.85
160-170	506.64
170-180	176.68

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-835U-L8-835D-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-L8-835D-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	16.6	17.5	17.6	18.5	19.7	16.5	17.4	17.5	18.4	19.6
	3H	18.4	19.2	19.4	20.1	21.4	18.3	19.1	19.3	20.1	21.3
	4H	19.0	19.7	20.0	20.7	22.0	18.9	19.7	19.9	20.6	21.9
	6H	19.4	20.1	20.4	21.1	22.4	19.4	20.1	20.4	21.1	22.4
	8H	19.6	20.2	20.6	21.2	22.5	19.5	20.2	20.5	21.2	22.5
	12H	19.6	20.3	20.6	21.3	22.6	19.6	20.2	20.6	21.2	22.6

### UGR Viewed Endwise

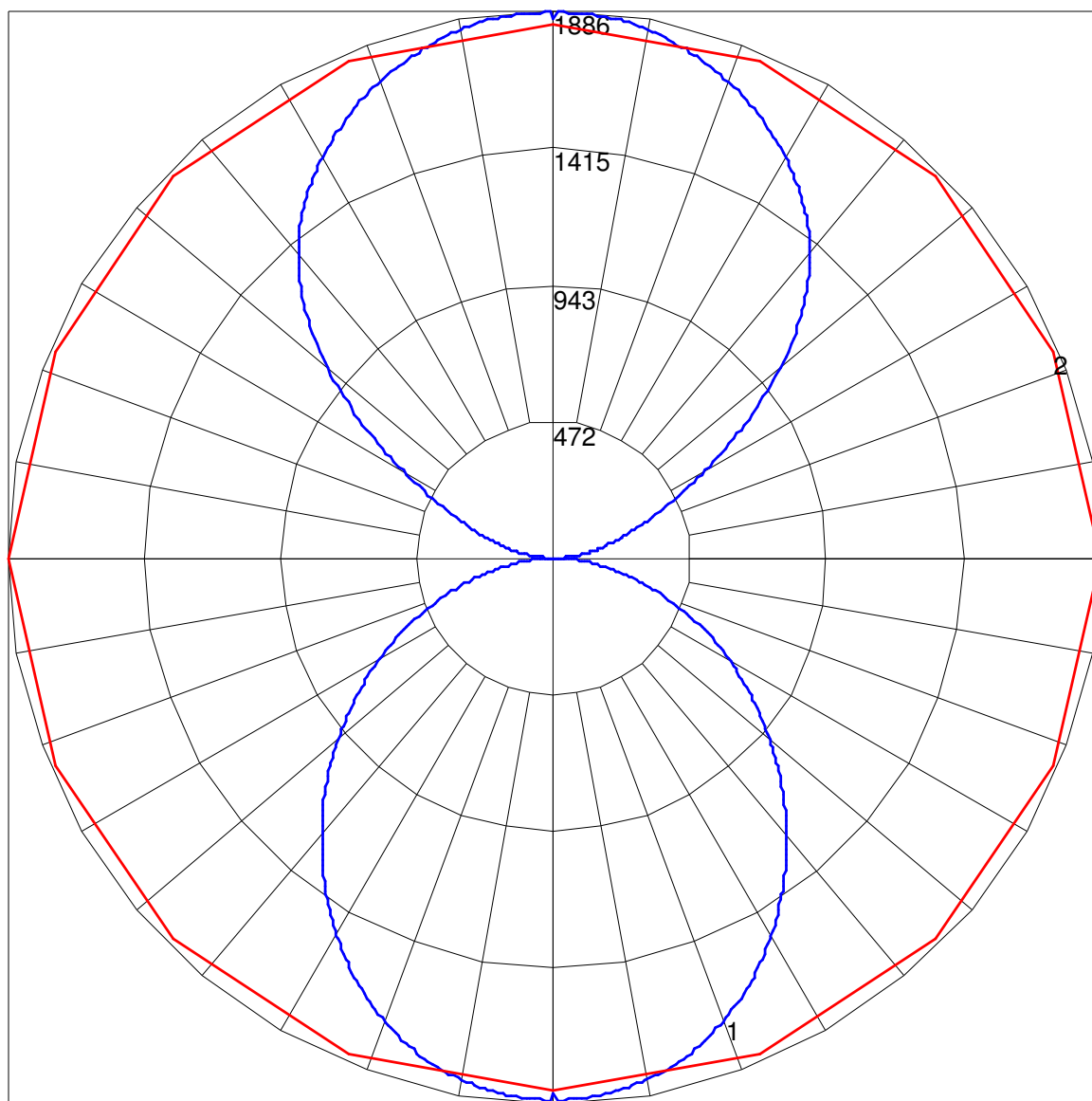
4H	2H	17.2	17.9	18.2	18.9	20.2	17.1	17.8	18.1	18.8	20.1
	3H	19.1	19.7	20.1	20.8	22.1	19.1	19.7	20.1	20.7	22.0
	4H	19.9	20.4	20.9	21.4	22.8	19.8	20.4	20.8	21.4	22.7
	6H	20.4	20.9	21.4	21.9	23.3	20.4	20.9	21.4	21.9	23.3
	8H	20.6	21.1	21.6	22.1	23.4	20.6	21.1	21.6	22.1	23.4
	12H	20.7	21.1	21.8	22.2	23.5	20.7	21.1	21.8	22.2	23.5

8H	4H	20.1	20.6	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.8	21.2	21.8	22.2	23.6	20.8	21.2	21.8	22.2	23.6
	8H	21.1	21.4	22.1	22.4	23.8	21.1	21.4	22.1	22.5	23.8
	12H	21.3	21.5	22.3	22.6	24.0	21.3	21.6	22.4	22.6	24.0

12H	4H	20.1	20.5	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.8	21.2	21.9	22.2	23.6	20.8	21.2	21.9	22.2	23.6
	8H	21.1	21.4	22.2	22.5	23.9	21.2	21.4	22.2	22.5	23.9

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1886.154 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.)