

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-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-L12-935U-L15-935D-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	9136
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	12431	12120	11982
55	11427	11150	11033
65	10539	10285	10174
75	8938	8933	8928
85	6980	7261	7471

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1803.712	1803.712	1803.712	1803.712	1803.712
<b>0.5</b>	1830.949	1805.225	1796.146	1799.929	1793.876
<b>1.0</b>	1830.949	1804.469	1796.146	1799.929	1793.876
<b>1.5</b>	1830.193	1803.712	1795.389	1799.929	1793.120
<b>2.0</b>	1829.436	1802.955	1794.633	1799.172	1793.120
<b>2.5</b>	1828.679	1802.199	1793.120	1798.416	1792.363
<b>3.0</b>	1827.166	1800.686	1792.363	1797.659	1790.850
<b>3.5</b>	1825.653	1799.172	1790.850	1796.146	1789.337
<b>4.0</b>	1824.140	1797.659	1789.337	1794.633	1787.824
<b>4.5</b>	1822.627	1795.389	1787.824	1793.120	1785.554
<b>5.0</b>	1821.114	1793.876	1785.554	1790.850	1783.284
<b>5.5</b>	1818.844	1791.607	1783.284	1788.580	1781.014
<b>6.0</b>	1816.574	1788.580	1781.014	1786.310	1777.988
<b>6.5</b>	1813.548	1786.310	1777.988	1783.284	1775.718
<b>7.0</b>	1811.278	1783.284	1775.718	1780.258	1772.692
<b>7.5</b>	1809.008	1780.258	1772.692	1777.231	1770.422
<b>8.0</b>	1805.225	1777.231	1768.909	1774.205	1767.396
<b>8.5</b>	1802.199	1773.448	1765.126	1770.422	1763.613
<b>9.0</b>	1798.416	1770.422	1762.099	1766.639	1759.830
<b>9.5</b>	1794.633	1766.639	1757.560	1762.099	1756.047
<b>10.0</b>	1790.850	1762.856	1753.777	1758.317	1751.507
<b>10.5</b>	1786.310	1758.317	1749.237	1753.777	1747.724
<b>11.0</b>	1782.527	1753.777	1744.698	1749.237	1742.428
<b>11.5</b>	1777.231	1749.237	1740.158	1744.698	1737.889
<b>12.0</b>	1772.692	1744.698	1735.619	1739.402	1732.592
<b>12.5</b>	1768.152	1739.402	1730.323	1734.106	1727.296
<b>13.0</b>	1762.856	1734.862	1725.027	1728.810	1722.000
<b>13.5</b>	1757.560	1728.810	1719.730	1722.757	1716.704
<b>14.0</b>	1752.264	1723.513	1713.678	1717.461	1711.408
<b>14.5</b>	1746.968	1718.217	1707.625	1711.408	1705.355
<b>15.0</b>	1741.672	1712.165	1701.572	1705.355	1699.302
<b>15.5</b>	1734.862	1706.868	1695.520	1698.546	1692.493
<b>16.0</b>	1727.296	1700.816	1688.710	1692.493	1686.440
<b>16.5</b>	1719.730	1694.006	1681.901	1685.684	1679.631
<b>17.0</b>	1712.921	1687.197	1675.092	1678.875	1672.822
<b>17.5</b>	1705.355	1679.631	1667.526	1671.309	1665.256
<b>18.0</b>	1697.789	1672.065	1659.960	1663.743	1657.690
<b>18.5</b>	1690.223	1664.499	1652.394	1655.420	1650.124
<b>19.0</b>	1682.657	1656.933	1645.585	1647.854	1641.045
<b>19.5</b>	1674.335	1649.367	1638.019	1638.775	1631.966
<b>20.0</b>	1666.769	1641.045	1631.209	1630.453	1622.887
<b>20.5</b>	1658.447	1633.479	1623.643	1621.374	1613.808
<b>21.0</b>	1650.124	1625.157	1615.321	1612.295	1603.972
<b>21.5</b>	1641.045	1616.834	1606.242	1603.215	1594.136
<b>22.0</b>	1632.722	1607.755	1596.406	1593.380	1585.057
<b>22.5</b>	1623.643	1598.676	1587.327	1583.544	1575.222
<b>23.0</b>	1614.564	1589.597	1578.248	1572.952	1565.386
<b>23.5</b>	1605.485	1580.518	1568.412	1563.116	1556.307
<b>24.0</b>	1595.650	1571.439	1559.333	1553.280	1546.471
<b>24.5</b>	1585.814	1561.603	1549.498	1543.445	1536.635
<b>25.0</b>	1576.735	1551.767	1539.662	1533.609	1526.800
<b>25.5</b>	1566.899	1541.932	1529.070	1523.773	1516.208
<b>26.0</b>	1556.307	1531.339	1519.234	1513.938	1506.372
<b>26.5</b>	1546.471	1521.504	1508.642	1504.102	1496.536

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27.0	1535.879	1510.911	1498.049	1494.266	1485.944
27.5	1525.287	1500.319	1488.214	1484.431	1476.108
28.0	1514.694	1488.970	1476.865	1473.838	1465.516
28.5	1503.346	1477.621	1466.273	1464.003	1454.924
29.0	1491.997	1467.029	1455.680	1453.411	1444.331
29.5	1481.404	1455.680	1445.088	1442.062	1434.496
30.0	1470.056	1444.331	1434.496	1431.469	1423.903
30.5	1458.707	1432.983	1423.147	1420.877	1413.311
31.0	1446.601	1422.390	1411.798	1409.528	1402.719
31.5	1435.252	1411.041	1400.449	1398.179	1391.370
32.0	1423.147	1398.936	1389.100	1386.074	1380.021
32.5	1411.041	1387.587	1377.751	1374.725	1367.916
33.0	1398.936	1376.238	1366.403	1363.376	1355.810
33.5	1387.587	1364.133	1354.297	1351.271	1344.461
34.0	1374.725	1352.027	1342.948	1339.165	1332.356
34.5	1362.620	1339.922	1330.086	1327.060	1319.494
35.0	1350.514	1328.573	1317.981	1314.954	1306.632
35.5	1337.652	1315.711	1305.875	1302.849	1293.770
36.0	1324.790	1303.606	1293.770	1289.987	1281.664
36.5	1312.685	1291.500	1281.664	1277.882	1269.559
37.0	1299.823	1278.638	1268.802	1265.019	1256.697
37.5	1286.961	1265.776	1256.697	1252.157	1244.592
38.0	1273.342	1252.914	1243.835	1239.295	1231.729
38.5	1260.480	1240.052	1230.973	1227.190	1218.867
39.0	1248.374	1227.190	1218.111	1214.328	1206.762
39.5	1234.756	1214.328	1206.005	1201.466	1193.143
40.0	1221.894	1200.709	1193.143	1188.604	1181.038
40.5	1208.275	1187.847	1180.281	1175.742	1168.176
41.0	1195.413	1174.229	1167.419	1162.123	1154.557
41.5	1181.795	1161.367	1153.801	1149.261	1140.939
42.0	1168.932	1147.748	1140.939	1136.399	1128.077
42.5	1156.070	1134.886	1128.077	1122.780	1115.215
43.0	1142.452	1122.024	1115.215	1109.918	1101.596
43.5	1129.590	1108.405	1101.596	1097.056	1088.734
44.0	1115.971	1094.787	1087.977	1083.438	1075.872
44.5	1102.352	1081.168	1074.359	1069.819	1062.253
45.0	1088.734	1068.306	1061.497	1056.200	1049.391
45.5	1075.872	1054.687	1047.878	1043.338	1036.529
46.0	1062.253	1041.069	1034.259	1029.720	1023.667
46.5	1048.635	1027.450	1021.397	1016.858	1010.805
47.0	1035.016	1013.831	1007.779	1003.239	997.186
47.5	1020.641	1000.213	994.160	989.620	984.324
48.0	1007.022	986.594	980.541	976.758	970.706
48.5	993.403	972.976	967.679	963.140	957.087
49.0	979.028	959.357	954.061	949.521	944.225
49.5	965.410	945.738	940.442	936.659	931.363
50.0	951.034	932.120	926.823	923.041	917.744
50.5	936.659	918.501	913.205	909.422	904.882
51.0	922.284	904.882	899.586	895.803	891.264
51.5	908.665	891.264	885.968	882.941	877.645
52.0	895.047	877.645	872.349	869.323	864.783
52.5	880.671	864.026	858.730	856.461	851.164
53.0	867.053	850.408	845.112	842.842	837.546
53.5	852.678	836.789	831.493	829.223	823.927
54.0	839.059	823.171	818.631	816.361	810.309
54.5	825.440	810.309	805.012	802.743	796.690

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55.0	811.822	797.446	792.150	789.881	783.828
55.5	798.960	783.828	778.532	776.262	770.966
56.0	784.584	770.209	764.913	763.400	757.347
56.5	770.966	757.347	751.673	750.008	744.031
57.0	758.104	743.729	738.281	736.465	730.791
57.5	744.788	730.564	724.965	723.301	717.399
58.0	731.472	717.550	711.573	710.060	704.159
58.5	718.080	704.461	698.409	697.047	691.448
59.0	704.915	691.297	685.168	683.882	678.510
59.5	692.129	677.981	671.701	670.793	665.724
60.0	679.040	664.741	658.385	657.629	652.711
60.5	666.102	651.803	645.523	644.388	639.546
61.0	653.392	638.865	632.737	631.451	626.684
61.5	639.773	626.079	620.026	618.588	613.973
62.0	626.381	612.914	606.861	605.802	600.960
62.5	612.687	600.733	594.453	593.621	588.627
63.0	599.522	589.989	584.920	584.542	580.456
63.5	586.206	578.262	574.252	573.420	569.183
64.0	578.187	566.838	563.206	561.542	556.699
64.5	565.703	554.657	550.722	549.209	544.670
65.0	551.706	541.643	538.390	536.952	532.564
65.5	537.406	528.479	525.528	524.847	520.383
66.0	523.636	515.617	512.968	512.666	507.899
66.5	510.018	502.452	500.182	500.182	495.945
67.0	496.550	489.363	487.547	487.774	483.915
67.5	483.310	476.501	474.836	475.290	471.507
68.0	469.918	463.639	462.125	462.731	458.797
68.5	456.451	450.550	449.339	450.171	446.313
69.0	442.530	437.385	436.477	436.931	433.375
69.5	428.987	424.447	423.388	423.918	420.664
70.0	415.595	411.358	410.602	410.829	407.954
70.5	402.431	398.194	397.664	397.891	395.167
71.0	388.963	385.105	384.953	385.256	382.305
71.5	375.496	372.016	372.318	372.545	369.973
72.0	362.407	358.851	359.456	359.759	357.565
72.5	349.318	345.913	346.897	347.199	345.384
73.0	336.380	333.278	334.640	335.018	333.429
73.5	323.821	320.794	322.383	323.064	321.324
74.0	311.413	308.311	310.278	310.807	309.673
74.5	299.005	296.054	298.248	298.778	297.945
75.0	286.521	283.873	286.370	286.899	286.218
75.5	274.188	271.692	274.567	275.248	274.491
76.0	261.705	259.965	262.915	263.672	263.067
76.5	249.902	248.389	251.339	252.172	251.642
77.0	238.402	236.737	239.991	240.747	239.915
77.5	226.523	225.388	228.642	229.247	228.415
78.0	214.947	214.040	217.293	218.201	217.368
78.5	203.447	202.993	206.095	207.154	206.474
79.0	192.401	191.947	195.125	196.411	195.881
79.5	181.355	181.128	184.305	185.667	185.213
80.0	170.460	170.536	173.486	175.378	174.772
80.5	159.489	160.170	163.197	165.012	164.559
81.0	148.973	150.032	152.983	154.874	154.571
81.5	138.834	139.969	142.996	144.887	144.660
82.0	129.377	130.134	133.236	135.203	134.976
82.5	119.920	120.601	123.627	125.594	125.443

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83.0	110.462	111.521	114.170	116.212	116.364
83.5	101.156	102.442	105.015	106.982	107.436
84.0	92.455	93.515	95.936	97.827	98.508
84.5	83.603	84.738	87.008	88.899	89.580
85.0	75.356	76.264	78.383	80.047	80.653
85.5	67.337	67.791	69.606	71.347	71.952
86.0	59.468	59.619	61.208	62.797	63.554
86.5	51.675	51.675	53.113	54.550	55.231
87.0	43.807	43.807	44.866	46.682	47.211
87.5	36.014	36.089	37.073	38.889	39.570
88.0	28.599	28.523	29.507	31.474	32.231
88.5	21.487	21.033	22.319	24.060	25.119
89.0	13.921	13.694	15.434	17.099	18.234
89.5	6.431	7.642	9.230	10.517	10.895
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.641	2.446	2.258	2.195	2.383
91.0	10.223	5.394	4.390	4.328	4.265
91.5	16.432	10.976	6.523	6.460	6.397
92.0	22.704	18.251	9.408	8.404	8.404
92.5	29.227	25.777	14.551	10.537	10.349
93.0	36.001	32.990	20.572	13.986	12.606
93.5	42.837	39.889	27.032	18.878	16.432
94.0	49.548	46.663	34.182	24.711	21.638
94.5	56.447	53.436	41.645	30.732	27.283
95.0	63.220	60.398	48.983	36.879	32.865
95.5	69.994	66.921	56.133	43.213	38.760
96.0	76.454	73.569	63.158	49.799	44.781
96.5	82.977	80.217	70.182	56.510	50.990
97.0	89.311	86.740	77.144	63.220	57.576
97.5	95.834	93.325	84.169	70.057	64.161
98.0	102.294	99.785	91.005	76.830	70.809
98.5	108.754	106.308	97.590	83.729	77.458
99.0	115.340	113.019	104.301	90.315	84.169
99.5	121.988	119.667	111.075	96.900	90.754
100.0	128.511	126.378	117.848	103.674	97.214
100.5	135.284	133.089	124.622	110.699	103.737
101.0	142.246	139.800	131.521	117.786	110.824
101.5	149.333	146.636	138.546	124.873	118.162
102.0	156.232	153.724	145.570	131.960	125.437
102.5	163.445	160.748	152.846	139.047	132.650
103.0	170.846	168.023	160.058	146.072	139.988
103.5	178.247	175.424	167.710	153.598	147.264
104.0	185.836	182.888	175.487	161.375	154.853
104.5	193.675	190.665	183.264	169.341	162.441
105.0	201.703	198.630	190.978	177.180	170.156
105.5	209.920	206.721	198.944	185.083	177.808
106.0	218.261	214.874	207.034	193.111	185.459
106.5	226.665	223.279	215.501	201.202	193.174
107.0	235.634	232.059	224.533	209.794	201.578
107.5	244.917	241.091	233.690	218.888	210.672
108.0	254.136	250.373	243.035	228.735	220.017
108.5	263.858	259.844	252.380	238.582	229.676
109.0	273.830	269.502	261.976	248.554	239.460
109.5	284.053	279.537	272.074	258.464	249.370
110.0	294.966	289.823	282.422	268.624	259.718
110.5	306.130	300.360	293.022	279.537	270.443

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111.0	317.419	311.398	303.998	290.889	281.231
111.5	328.960	322.750	315.162	302.430	292.332
112.0	340.939	334.416	326.263	313.970	302.931
112.5	352.981	346.395	337.489	325.447	314.158
113.0	365.587	358.751	349.343	337.301	325.886
113.5	378.570	371.671	361.887	350.096	338.493
114.0	391.741	384.842	375.183	363.706	352.479
114.5	405.351	398.452	388.731	377.880	367.344
115.0	419.149	412.438	402.780	392.180	382.396
115.5	433.574	426.550	417.205	406.417	397.260
116.0	448.125	441.226	432.132	421.407	412.376
116.5	463.491	456.279	447.561	436.773	428.494
117.0	479.485	471.645	463.115	453.331	445.115
117.5	491.276	483.624	477.352	468.572	461.986
118.0	506.328	497.610	491.966	484.314	476.976
118.5	523.827	514.293	506.893	498.927	490.460
119.0	540.949	530.726	523.827	515.485	505.450
119.5	558.259	548.224	541.764	532.294	522.259
120.0	576.134	566.350	559.765	550.670	540.008
120.5	593.883	584.727	578.329	570.176	558.949
121.0	612.511	603.479	597.019	589.619	579.082
121.5	630.950	622.044	615.647	609.312	598.776
122.0	650.393	640.985	635.341	629.069	618.532
122.5	669.209	659.801	654.783	648.511	637.222
123.0	688.651	679.871	674.853	669.836	657.919
123.5	708.721	699.941	696.178	691.160	679.244
124.0	728.791	720.638	716.875	712.485	701.195
124.5	748.861	740.708	737.572	733.182	722.520
125.0	768.931	760.778	757.642	753.879	743.217
125.5	789.629	781.475	778.339	774.576	763.287
126.0	809.699	801.545	799.664	795.273	783.357
126.5	829.769	821.615	820.988	817.225	804.681
127.0	850.466	842.312	842.312	839.176	827.260
127.5	871.163	862.382	862.382	860.501	849.839
128.0	891.233	882.452	883.079	881.825	871.163
128.5	911.303	901.895	903.149	903.149	891.860
129.0	931.373	921.338	923.219	923.847	913.184
129.5	951.443	941.408	943.917	945.171	935.136
130.0	971.513	961.478	964.614	966.495	958.342
130.5	991.583	980.921	985.938	987.193	980.293
131.0	1011.653	1000.363	1006.008	1007.263	1000.363
131.5	1030.468	1019.179	1026.078	1026.078	1019.806
132.0	1049.911	1037.995	1045.521	1046.148	1038.622
132.5	1068.727	1057.438	1064.964	1065.591	1057.438
133.0	1087.542	1076.880	1083.779	1085.034	1075.626
133.5	1106.358	1095.696	1103.222	1104.477	1095.069
134.0	1125.174	1113.884	1121.411	1123.292	1113.884
134.5	1142.108	1132.073	1138.972	1140.226	1132.073
135.0	1159.042	1149.634	1155.906	1157.160	1148.380
135.5	1175.349	1167.822	1172.840	1173.467	1164.687
136.0	1191.656	1184.756	1188.520	1190.401	1181.621
136.5	1208.590	1201.063	1204.199	1207.335	1199.182
137.0	1224.269	1217.370	1220.506	1223.015	1215.489
137.5	1239.949	1232.423	1235.559	1237.440	1229.914
138.0	1255.001	1247.475	1249.984	1251.238	1243.712
138.5	1270.054	1261.901	1264.409	1265.036	1256.883

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1284.479	1276.326	1278.835	1278.835	1270.054
139.5	1298.905	1290.751	1292.633	1292.005	1282.598
140.0	1312.703	1303.922	1306.431	1305.804	1296.396
140.5	1325.874	1316.466	1318.975	1318.347	1308.312
141.0	1339.045	1329.637	1331.518	1330.264	1320.229
141.5	1350.961	1341.553	1344.062	1342.180	1330.891
142.0	1363.505	1354.097	1355.979	1353.470	1342.180
142.5	1375.421	1366.014	1367.895	1365.386	1352.843
143.0	1387.338	1377.303	1379.184	1376.676	1364.132
143.5	1398.627	1389.219	1390.474	1387.965	1374.794
144.0	1409.289	1400.509	1401.136	1398.000	1384.829
144.5	1419.952	1411.171	1411.798	1408.035	1394.864
145.0	1429.987	1421.833	1421.833	1417.443	1404.272
145.5	1440.649	1432.495	1431.868	1428.105	1414.307
146.0	1450.684	1442.530	1441.903	1437.513	1424.342
146.5	1460.719	1452.565	1451.311	1447.548	1434.377
147.0	1470.127	1462.600	1460.092	1457.583	1444.412
147.5	1479.534	1472.008	1469.499	1466.991	1453.820
148.0	1488.942	1481.416	1477.653	1475.771	1463.855
148.5	1498.350	1490.824	1485.806	1484.552	1473.890
149.0	1507.131	1500.232	1493.960	1493.333	1483.925
149.5	1515.911	1509.012	1501.486	1502.113	1493.333
150.0	1524.692	1517.793	1509.639	1510.267	1502.113
150.5	1533.473	1526.573	1517.166	1517.793	1510.894
151.0	1541.626	1534.727	1524.692	1525.319	1519.047
151.5	1550.407	1542.880	1532.845	1532.845	1526.573
152.0	1558.560	1551.034	1540.372	1539.744	1534.100
152.5	1566.713	1558.560	1547.898	1547.271	1540.999
153.0	1574.867	1566.086	1555.424	1554.797	1547.271
153.5	1582.393	1573.613	1562.950	1562.323	1552.915
154.0	1589.919	1581.139	1571.104	1569.849	1559.187
154.5	1598.073	1588.038	1578.630	1576.748	1565.459
155.0	1605.599	1594.937	1586.156	1584.275	1572.358
155.5	1612.498	1601.209	1593.682	1591.801	1579.257
156.0	1619.397	1608.108	1601.836	1598.700	1586.156
156.5	1626.296	1615.007	1609.362	1606.226	1593.055
157.0	1633.195	1621.906	1616.888	1613.752	1599.954
157.5	1639.467	1628.178	1623.787	1620.652	1606.853
158.0	1645.739	1634.450	1630.687	1627.551	1613.752
158.5	1652.638	1641.349	1637.586	1634.450	1621.279
159.0	1658.283	1647.621	1643.857	1641.349	1628.178
159.5	1664.555	1653.892	1650.129	1648.248	1635.077
160.0	1670.199	1659.537	1656.401	1654.520	1641.976
160.5	1675.844	1665.182	1662.046	1660.792	1648.875
161.0	1681.489	1670.827	1667.691	1667.063	1655.774
161.5	1687.133	1677.098	1672.708	1673.335	1662.673
162.0	1693.405	1682.743	1677.726	1679.607	1668.945
162.5	1699.050	1688.388	1682.743	1685.252	1674.590
163.0	1704.695	1694.032	1687.761	1690.897	1680.234
163.5	1710.339	1699.050	1692.778	1696.541	1685.252
164.0	1715.984	1704.067	1697.168	1701.559	1690.269
164.5	1720.374	1709.085	1701.559	1706.576	1695.287
165.0	1725.392	1714.102	1705.949	1711.594	1699.677
165.5	1730.409	1718.493	1710.339	1715.984	1704.067
166.0	1735.427	1722.883	1714.730	1720.374	1707.831
166.5	1740.444	1727.273	1719.120	1724.137	1712.221

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1744.835	1731.036	1722.883	1727.901	1715.984
167.5	1749.225	1734.800	1727.273	1731.664	1720.374
168.0	1753.615	1738.563	1731.036	1735.427	1724.137
168.5	1758.006	1742.326	1734.800	1739.190	1728.528
169.0	1761.769	1745.462	1738.563	1742.326	1732.291
169.5	1764.905	1748.598	1741.699	1745.462	1736.054
170.0	1768.041	1751.734	1744.835	1748.598	1740.444
170.5	1771.176	1754.870	1747.343	1751.734	1743.580
171.0	1774.312	1757.378	1749.852	1754.870	1746.716
171.5	1776.821	1759.887	1752.361	1758.006	1749.852
172.0	1779.330	1762.396	1754.242	1760.514	1752.361
172.5	1781.839	1764.905	1756.124	1762.396	1754.242
173.0	1784.347	1767.413	1758.006	1764.905	1755.497
173.5	1786.229	1769.295	1759.887	1766.159	1756.751
174.0	1788.111	1771.176	1761.769	1767.413	1757.378
174.5	1789.365	1772.431	1763.023	1768.668	1758.006
175.0	1790.619	1774.312	1764.277	1769.295	1758.006
175.5	1791.874	1775.567	1766.159	1769.922	1758.633
176.0	1793.128	1776.821	1767.413	1769.922	1758.633
176.5	1793.755	1778.076	1768.041	1770.549	1758.633
177.0	1794.382	1779.330	1769.295	1770.549	1758.006
177.5	1795.637	1780.584	1770.549	1770.549	1758.006
178.0	1796.264	1780.584	1771.176	1770.549	1758.633
178.5	1796.264	1781.211	1771.804	1770.549	1758.633
179.0	1796.891	1781.839	1771.804	1770.549	1758.633
179.5	1797.518	1781.839	1772.431	1770.549	1758.633
180.0	1775.567	1775.567	1775.567	1775.567	1775.567



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	651.87	N.A.	7.10
0-30	1362.84	N.A.	14.90
0-40	2189.42	N.A.	24.00
0-60	3720.32	N.A.	40.70
0-80	4555.95	N.A.	49.90
0-90	4644.25	N.A.	50.80
10-90	4474.1	N.A.	49.00
20-40	1537.55	N.A.	16.80
20-50	2358.1	N.A.	25.80
40-70	2062.94	N.A.	22.60
60-80	835.63	N.A.	9.10
70-80	303.59	N.A.	3.30
80-90	88.29	N.A.	1.00
90-110	256.96	N.A.	2.80
90-120	659.63	N.A.	7.20
90-130	1336.3	N.A.	14.60
90-150	3108.13	N.A.	34.00
90-180	4492.06	N.A.	49.20
110-180	4235.11	N.A.	46.40
0-180	9136.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.15
10-20	481.72
20-30	710.97
30-40	826.58
40-50	820.55
50-60	710.35
60-70	532.04
70-80	303.59
80-90	88.29
90-100	55.42
100-110	201.53
110-120	402.67
120-130	676.67
130-140	884.81
140-150	887.02
150-160	732.72
160-170	482.83
170-180	168.38

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-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-L12-935U-L15-935D-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	20.2	21.4	18.3	19.1	19.3	20.1	21.3
	4H	19.0	19.8	20.0	20.7	22.0	18.9	19.7	19.9	20.7	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	19.7	20.3	20.7	21.3	22.6	19.6	20.3	20.6	21.3	22.6

### UGR Viewed Endwise

4H	2H	17.2	17.9	18.1	18.9	20.2	17.1	17.8	18.1	18.8	20.1
	3H	19.1	19.8	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	23.2
	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	21.7	22.2	23.5	20.7	21.2	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	21.6	22.3	22.6	24.0	21.3	21.6	22.3	22.6	24.0

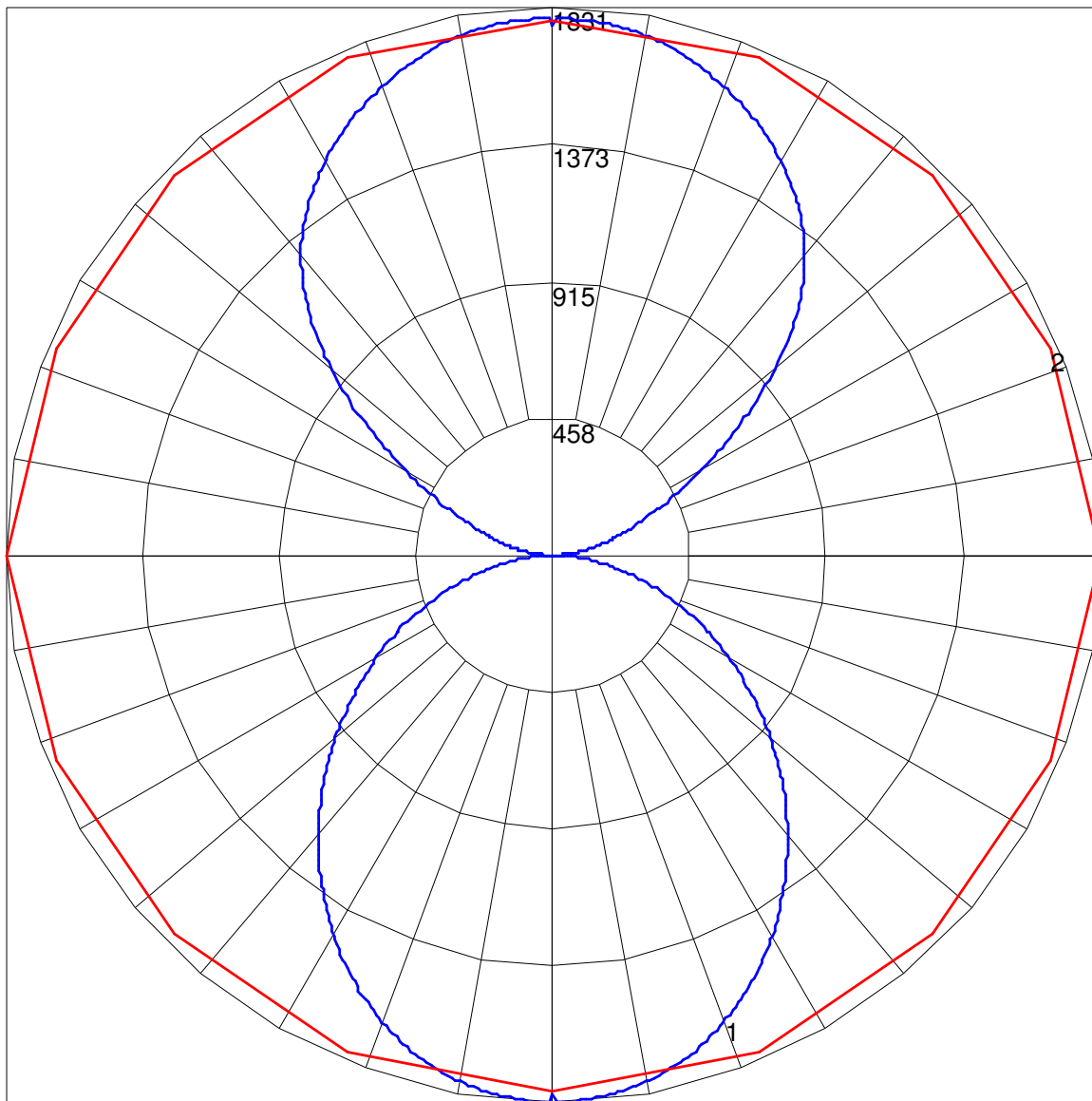
12H	4H	20.1	20.5	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.9	21.2	21.9	22.2	23.6	20.8	21.2	21.9	22.2	23.6
	8H	21.1	21.4	22.2	22.5	23.9	21.2	21.5	22.2	22.5	23.9

Maximum UGR = 24.0

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-935U-L15-935D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1830.949 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.)