

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-935U-L12-935D-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-L15-935U-L12-935D-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	9232
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	12407	12096	11958
55	11405	11128	11011
65	10519	10265	10154
75	8920	8915	8911
85	6967	7247	7457

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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>	1800.205	1800.205	1800.205	1800.205	1800.205
<b>0.5</b>	1827.389	1801.715	1792.653	1796.429	1790.388
<b>1.0</b>	1827.389	1800.960	1792.653	1796.429	1790.388
<b>1.5</b>	1826.634	1800.205	1791.898	1796.429	1789.633
<b>2.0</b>	1825.879	1799.449	1791.143	1795.674	1789.633
<b>2.5</b>	1825.124	1798.694	1789.633	1794.919	1788.878
<b>3.0</b>	1823.613	1797.184	1788.878	1794.164	1787.368
<b>3.5</b>	1822.103	1795.674	1787.368	1792.653	1785.857
<b>4.0</b>	1820.593	1794.164	1785.857	1791.143	1784.347
<b>4.5</b>	1819.083	1791.898	1784.347	1789.633	1782.082
<b>5.0</b>	1817.572	1790.388	1782.082	1787.368	1779.816
<b>5.5</b>	1815.307	1788.123	1779.816	1785.102	1777.551
<b>6.0</b>	1813.042	1785.102	1777.551	1782.837	1774.531
<b>6.5</b>	1810.021	1782.837	1774.531	1779.816	1772.265
<b>7.0</b>	1807.756	1779.816	1772.265	1776.796	1769.245
<b>7.5</b>	1805.490	1776.796	1769.245	1773.775	1766.979
<b>8.0</b>	1801.715	1773.775	1765.469	1770.755	1763.959
<b>8.5</b>	1798.694	1770.000	1761.694	1766.979	1760.183
<b>9.0</b>	1794.919	1766.979	1758.673	1763.204	1756.408
<b>9.5</b>	1791.143	1763.204	1754.142	1758.673	1752.632
<b>10.0</b>	1787.368	1759.428	1750.367	1754.897	1748.101
<b>10.5</b>	1782.837	1754.897	1745.836	1750.367	1744.326
<b>11.0</b>	1779.061	1750.367	1741.305	1745.836	1739.040
<b>11.5</b>	1773.775	1745.836	1736.775	1741.305	1734.509
<b>12.0</b>	1769.245	1741.305	1732.244	1736.019	1729.223
<b>12.5</b>	1764.714	1736.019	1726.958	1730.734	1723.938
<b>13.0</b>	1759.428	1731.489	1721.672	1725.448	1718.652
<b>13.5</b>	1754.142	1725.448	1716.386	1719.407	1713.366
<b>14.0</b>	1748.856	1720.162	1710.345	1714.121	1708.080
<b>14.5</b>	1743.571	1714.876	1704.304	1708.080	1702.039
<b>15.0</b>	1738.285	1708.835	1698.263	1702.039	1695.998
<b>15.5</b>	1731.489	1703.549	1692.223	1695.243	1689.202
<b>16.0</b>	1723.938	1697.508	1685.426	1689.202	1683.161
<b>16.5</b>	1716.386	1690.712	1678.630	1682.406	1676.365
<b>17.0</b>	1709.590	1683.916	1671.834	1675.610	1669.569
<b>17.5</b>	1702.039	1676.365	1664.283	1668.059	1662.018
<b>18.0</b>	1694.488	1668.814	1656.732	1660.508	1654.467
<b>18.5</b>	1686.937	1661.263	1649.181	1652.201	1646.915
<b>19.0</b>	1679.386	1653.711	1642.385	1644.650	1637.854
<b>19.5</b>	1671.079	1646.160	1634.833	1635.589	1628.793
<b>20.0</b>	1663.528	1637.854	1628.037	1627.282	1619.731
<b>20.5</b>	1655.222	1630.303	1620.486	1618.221	1610.670
<b>21.0</b>	1646.915	1621.996	1612.180	1609.159	1600.853
<b>21.5</b>	1637.854	1613.690	1603.118	1600.098	1591.037
<b>22.0</b>	1629.548	1604.629	1593.302	1590.281	1581.975
<b>22.5</b>	1620.486	1595.567	1584.240	1580.465	1572.159
<b>23.0</b>	1611.425	1586.506	1575.179	1569.893	1562.342
<b>23.5</b>	1602.363	1577.444	1565.362	1560.077	1553.281
<b>24.0</b>	1592.547	1568.383	1556.301	1550.260	1543.464
<b>24.5</b>	1582.730	1558.566	1546.484	1540.444	1533.647
<b>25.0</b>	1573.669	1548.750	1536.668	1530.627	1523.831
<b>25.5</b>	1563.852	1538.933	1526.096	1520.810	1513.259
<b>26.0</b>	1553.281	1528.362	1516.280	1510.994	1503.443
<b>26.5</b>	1543.464	1518.545	1505.708	1501.177	1493.626

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27.0	1532.892	1507.973	1495.136	1491.361	1483.054
27.5	1522.321	1497.402	1485.320	1481.544	1473.238
28.0	1511.749	1486.075	1473.993	1470.973	1462.666
28.5	1500.422	1474.748	1463.421	1461.156	1452.095
29.0	1489.095	1464.176	1452.850	1450.584	1441.523
29.5	1478.524	1452.850	1442.278	1439.258	1431.706
30.0	1467.197	1441.523	1431.706	1428.686	1421.135
30.5	1455.870	1430.196	1420.380	1418.114	1410.563
31.0	1443.788	1419.624	1409.053	1406.787	1399.991
31.5	1432.461	1408.298	1397.726	1395.461	1388.665
32.0	1420.380	1396.216	1386.399	1383.379	1377.338
32.5	1408.298	1384.889	1375.072	1372.052	1365.256
33.0	1396.216	1373.562	1363.746	1360.725	1353.174
33.5	1384.889	1361.480	1351.664	1348.643	1341.847
34.0	1372.052	1349.398	1340.337	1336.561	1329.765
34.5	1359.970	1337.316	1327.500	1324.479	1316.928
35.0	1347.888	1325.990	1315.418	1312.397	1304.091
35.5	1335.051	1313.153	1303.336	1300.316	1291.254
36.0	1322.214	1301.071	1291.254	1287.479	1279.172
36.5	1310.132	1288.989	1279.172	1275.397	1267.090
37.0	1297.295	1276.152	1266.335	1262.560	1254.253
37.5	1284.458	1263.315	1254.253	1249.723	1242.171
38.0	1270.866	1250.478	1241.416	1236.886	1229.334
38.5	1258.029	1237.641	1228.579	1224.804	1216.497
39.0	1245.947	1224.804	1215.742	1211.967	1204.415
39.5	1232.355	1211.967	1203.660	1199.130	1190.823
40.0	1219.518	1198.374	1190.823	1186.293	1178.741
40.5	1205.926	1185.537	1177.986	1173.456	1165.904
41.0	1193.089	1171.945	1165.149	1159.863	1152.312
41.5	1179.496	1159.108	1151.557	1147.026	1138.720
42.0	1166.659	1145.516	1138.720	1134.189	1125.883
42.5	1153.822	1132.679	1125.883	1120.597	1113.046
43.0	1140.230	1119.842	1113.046	1107.760	1099.454
43.5	1127.393	1106.250	1099.454	1094.923	1086.617
44.0	1113.801	1092.658	1085.862	1081.331	1073.780
44.5	1100.209	1079.066	1072.270	1067.739	1060.188
45.0	1086.617	1066.229	1059.432	1054.147	1047.351
45.5	1073.780	1052.636	1045.840	1041.310	1034.514
46.0	1060.188	1039.044	1032.248	1027.717	1021.677
46.5	1046.595	1025.452	1019.411	1014.880	1008.839
47.0	1033.003	1011.860	1005.819	1001.288	995.247
47.5	1018.656	998.268	992.227	987.696	982.410
48.0	1005.064	984.676	978.635	974.859	968.818
48.5	991.472	971.084	965.798	961.267	955.226
49.0	977.124	957.491	952.206	947.675	942.389
49.5	963.532	943.899	938.613	934.838	929.552
50.0	949.185	930.307	925.021	921.246	915.960
50.5	934.838	916.715	911.429	907.653	903.123
51.0	920.491	903.123	897.837	894.061	889.531
51.5	906.898	889.531	884.245	881.224	875.938
52.0	893.306	875.938	870.653	867.632	863.101
52.5	878.959	862.346	857.061	854.795	849.509
53.0	865.367	848.754	843.468	841.203	835.917
53.5	851.020	835.162	829.876	827.611	822.325
54.0	837.427	821.570	817.039	814.774	808.733
54.5	823.835	808.733	803.447	801.182	795.141

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55.0	810.243	795.896	790.610	788.345	782.304
55.5	797.406	782.304	777.018	774.752	769.467
56.0	783.059	768.712	763.426	761.915	755.875
56.5	769.467	755.875	750.211	748.550	742.584
57.0	756.630	742.282	736.845	735.033	729.370
57.5	743.340	729.143	723.555	721.894	716.004
58.0	730.049	716.155	710.190	708.680	702.790
58.5	716.684	703.092	697.051	695.691	690.104
59.0	703.545	689.953	683.836	682.552	677.191
59.5	690.783	676.662	670.395	669.489	664.430
60.0	677.720	663.448	657.105	656.350	651.441
60.5	664.807	650.535	644.268	643.135	638.302
61.0	652.121	637.623	631.506	630.223	625.465
61.5	638.529	624.861	618.820	617.386	612.779
62.0	625.163	611.722	605.681	604.624	599.791
62.5	611.496	599.565	593.297	592.467	587.483
63.0	598.357	588.842	583.783	583.405	579.328
63.5	585.066	577.138	573.136	572.305	568.076
64.0	577.062	565.735	562.111	560.450	555.617
64.5	564.603	553.578	549.651	548.141	543.610
65.0	550.633	540.590	537.343	535.908	531.529
65.5	536.361	527.451	524.506	523.826	519.371
66.0	522.618	514.614	511.971	511.669	506.912
66.5	509.026	501.475	499.209	499.209	494.981
67.0	495.585	488.411	486.599	486.825	482.974
67.5	482.370	475.574	473.913	474.366	470.590
68.0	469.005	462.737	461.227	461.831	457.904
68.5	455.564	449.674	448.465	449.296	445.445
69.0	441.669	436.535	435.628	436.081	432.532
69.5	428.153	423.622	422.565	423.093	419.846
70.0	414.787	410.558	409.803	410.030	407.160
70.5	401.648	397.419	396.891	397.117	394.399
71.0	388.207	384.356	384.205	384.507	381.562
71.5	374.766	371.292	371.594	371.821	369.253
72.0	361.702	358.153	358.757	359.059	356.869
72.5	348.639	345.241	346.222	346.524	344.712
73.0	335.726	332.630	333.989	334.367	332.781
73.5	323.191	320.171	321.756	322.436	320.699
74.0	310.807	307.711	309.674	310.203	309.070
74.5	298.423	295.478	297.668	298.197	297.366
75.0	285.964	283.321	285.813	286.341	285.662
75.5	273.655	271.163	274.033	274.712	273.957
76.0	261.196	259.459	262.404	263.159	262.555
76.5	249.416	247.906	250.851	251.681	251.153
77.0	237.938	236.277	239.524	240.279	239.448
77.5	226.083	224.950	228.197	228.801	227.971
78.0	214.529	213.623	216.870	217.776	216.946
78.5	203.052	202.599	205.695	206.752	206.072
79.0	192.027	191.574	194.745	196.029	195.500
79.5	181.002	180.776	183.947	185.306	184.853
80.0	170.128	170.204	173.149	175.037	174.433
80.5	159.179	159.859	162.879	164.692	164.238
81.0	148.683	149.740	152.685	154.573	154.271
81.5	138.564	139.697	142.718	144.605	144.379
82.0	129.125	129.881	132.977	134.940	134.713
82.5	119.686	120.366	123.387	125.350	125.199

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83.0	110.247	111.305	113.948	115.986	116.137
83.5	100.959	102.243	104.811	106.774	107.227
84.0	92.276	93.333	95.749	97.637	98.317
84.5	83.441	84.573	86.839	88.727	89.406
85.0	75.210	76.116	78.230	79.892	80.496
85.5	67.206	67.659	69.471	71.208	71.812
86.0	59.352	59.503	61.089	62.675	63.430
86.5	51.575	51.575	53.009	54.444	55.124
87.0	43.721	43.721	44.779	46.591	47.119
87.5	35.944	36.019	37.001	38.813	39.493
88.0	28.544	28.468	29.450	31.413	32.168
88.5	21.445	20.992	22.276	24.013	25.070
89.0	13.894	13.668	15.404	17.066	18.198
89.5	6.419	7.627	9.212	10.496	10.874
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.750	2.503	2.311	2.246	2.439
91.0	10.462	5.520	4.493	4.429	4.365
91.5	16.817	11.232	6.675	6.611	6.547
92.0	23.235	18.678	9.628	8.601	8.601
92.5	29.910	26.380	14.891	10.783	10.591
93.0	36.842	33.761	21.053	14.313	12.901
93.5	43.838	40.822	27.664	19.320	16.817
94.0	50.706	47.754	34.981	25.289	22.144
94.5	57.767	54.686	42.619	31.451	27.921
95.0	64.699	61.810	50.129	37.741	33.633
95.5	71.631	68.486	57.446	44.224	39.666
96.0	78.242	75.289	64.634	50.963	45.828
96.5	84.917	82.093	71.823	57.831	52.183
97.0	91.400	88.768	78.948	64.699	58.922
97.5	98.075	95.507	86.136	71.695	65.661
98.0	104.686	102.119	93.133	78.627	72.465
98.5	111.297	108.794	99.872	85.687	79.269
99.0	118.036	115.662	106.740	92.427	86.136
99.5	124.840	122.465	113.672	99.166	92.876
100.0	131.515	129.333	120.604	106.098	99.487
100.5	138.447	136.201	127.536	113.287	106.162
101.0	145.572	143.069	134.596	120.540	113.415
101.5	152.825	150.065	141.785	127.793	120.925
102.0	159.885	157.318	148.974	135.046	128.370
102.5	167.266	164.507	156.419	142.298	135.752
103.0	174.840	171.952	163.800	149.487	143.261
103.5	182.414	179.526	171.631	157.189	150.707
104.0	190.181	187.164	179.590	165.148	158.473
104.5	198.204	195.123	187.549	173.300	166.240
105.0	206.419	203.274	195.444	181.323	174.134
105.5	214.828	211.554	203.595	189.410	181.965
106.0	223.364	219.898	211.875	197.626	189.795
106.5	231.965	228.499	220.540	205.906	197.690
107.0	241.144	237.485	229.783	214.699	206.291
107.5	250.643	246.728	239.154	224.006	215.598
108.0	260.078	256.227	248.717	234.083	225.161
108.5	270.027	265.919	258.281	244.160	235.046
109.0	280.232	275.804	268.101	254.366	245.059
109.5	290.695	286.073	278.435	264.507	255.200
110.0	301.863	296.600	289.026	274.905	265.791
110.5	313.288	307.383	299.873	286.073	276.766

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111.0	324.841	318.679	311.105	297.691	287.806
111.5	336.651	330.297	322.530	309.501	299.167
112.0	348.910	342.235	333.891	321.311	310.014
112.5	361.234	354.495	345.380	333.057	321.503
113.0	374.135	367.139	357.511	345.188	333.506
113.5	387.422	380.361	370.348	358.281	346.407
114.0	400.900	393.840	383.956	372.210	360.721
114.5	414.829	407.768	397.820	386.716	375.932
115.0	428.949	422.082	412.197	401.350	391.337
115.5	443.712	436.523	426.960	415.920	406.549
116.0	458.603	451.543	442.236	431.260	422.017
116.5	474.328	466.947	458.025	446.985	438.513
117.0	490.695	482.672	473.943	463.930	455.522
117.5	502.762	494.932	488.513	479.527	472.788
118.0	518.167	509.245	503.468	495.638	488.128
118.5	536.074	526.318	518.744	510.593	501.928
119.0	553.597	543.135	536.074	527.538	517.268
119.5	571.312	561.042	554.431	544.739	534.470
120.0	589.605	579.592	572.852	563.546	552.634
120.5	607.769	598.398	591.851	583.507	572.018
121.0	626.832	617.589	610.978	603.405	592.621
121.5	645.703	636.588	630.041	623.559	612.776
122.0	665.600	655.972	650.196	643.777	632.994
122.5	684.856	675.228	670.093	663.674	652.121
123.0	704.753	695.767	690.632	685.497	673.302
123.5	725.292	716.306	712.455	707.320	695.125
124.0	745.831	737.487	733.636	729.143	717.590
124.5	766.371	758.027	754.817	750.324	739.413
125.0	786.910	778.566	775.357	771.505	760.594
125.5	808.091	799.747	796.538	792.687	781.133
126.0	828.630	820.286	818.361	813.868	801.672
126.5	849.170	840.825	840.184	836.332	823.495
127.0	870.351	862.007	862.007	858.797	846.602
127.5	891.532	882.546	882.546	880.620	869.709
128.0	912.071	903.085	903.727	902.443	891.532
128.5	932.610	922.982	924.266	924.266	912.713
129.0	953.149	942.880	944.805	945.447	934.536
129.5	973.689	963.419	965.986	967.270	957.001
130.0	994.228	983.958	987.168	989.093	980.749
130.5	1014.767	1003.856	1008.991	1010.274	1003.214
131.0	1035.306	1023.753	1029.530	1030.813	1023.753
131.5	1054.562	1043.009	1050.069	1050.069	1043.650
132.0	1074.459	1062.264	1069.966	1070.608	1062.906
132.5	1093.715	1082.162	1089.864	1090.506	1082.162
133.0	1112.970	1102.059	1109.119	1110.403	1100.775
133.5	1132.226	1121.315	1129.017	1130.300	1120.673
134.0	1151.482	1139.928	1147.630	1149.556	1139.928
134.5	1168.812	1158.542	1165.602	1166.886	1158.542
135.0	1186.142	1176.514	1182.932	1184.216	1175.230
135.5	1202.830	1195.127	1200.262	1200.904	1191.918
136.0	1219.518	1212.457	1216.309	1218.234	1209.248
136.5	1236.848	1229.146	1232.355	1235.564	1227.220
137.0	1252.894	1245.834	1249.043	1251.610	1243.908
137.5	1268.940	1261.238	1264.447	1266.373	1258.671
138.0	1284.345	1276.643	1279.210	1280.494	1272.791
138.5	1299.749	1291.405	1293.973	1294.614	1286.270

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

139.0	1314.512	1306.168	1308.735	1308.735	1299.749
139.5	1329.274	1320.930	1322.856	1322.214	1312.586
140.0	1343.395	1334.409	1336.977	1336.335	1326.707
140.5	1356.874	1347.246	1349.814	1349.172	1338.902
141.0	1370.353	1360.725	1362.651	1361.367	1351.097
141.5	1382.548	1372.920	1375.488	1373.562	1362.009
142.0	1395.385	1385.757	1387.683	1385.115	1373.562
142.5	1407.580	1397.953	1399.878	1397.311	1384.474
143.0	1419.775	1409.506	1411.431	1408.864	1396.027
143.5	1431.329	1421.701	1422.985	1420.417	1406.938
144.0	1442.240	1433.254	1433.896	1430.687	1417.208
144.5	1453.152	1444.166	1444.808	1440.957	1427.478
145.0	1463.421	1455.077	1455.077	1450.584	1437.105
145.5	1474.333	1465.989	1465.347	1461.496	1447.375
146.0	1484.602	1476.258	1475.617	1471.124	1457.645
146.5	1494.872	1486.528	1485.244	1481.393	1467.914
147.0	1504.500	1496.798	1494.230	1491.663	1478.184
147.5	1514.128	1506.425	1503.858	1501.291	1487.812
148.0	1523.755	1516.053	1512.202	1510.277	1498.081
148.5	1533.383	1525.681	1520.546	1519.262	1508.351
149.0	1542.369	1535.309	1528.890	1528.248	1518.621
149.5	1551.355	1544.295	1536.592	1537.234	1528.248
150.0	1560.341	1553.281	1544.937	1545.578	1537.234
150.5	1569.327	1562.266	1552.639	1553.281	1546.220
151.0	1577.671	1570.611	1560.341	1560.983	1554.564
151.5	1586.657	1578.955	1568.685	1568.685	1562.266
152.0	1595.001	1587.299	1576.387	1575.745	1569.969
152.5	1603.345	1595.001	1584.089	1583.448	1577.029
153.0	1611.689	1602.703	1591.792	1591.150	1583.448
153.5	1619.391	1610.405	1599.494	1598.852	1589.224
154.0	1627.093	1618.108	1607.838	1606.554	1595.643
154.5	1635.438	1625.168	1615.540	1613.615	1602.061
155.0	1643.140	1632.228	1623.242	1621.317	1609.122
155.5	1650.200	1638.647	1630.945	1629.019	1616.182
156.0	1657.261	1645.707	1639.289	1636.079	1623.242
156.5	1664.321	1652.768	1646.991	1643.782	1630.303
157.0	1671.381	1659.828	1654.693	1651.484	1637.363
157.5	1677.800	1666.246	1661.753	1658.544	1644.423
158.0	1684.218	1672.665	1668.814	1665.605	1651.484
158.5	1691.279	1679.725	1675.874	1672.665	1659.186
159.0	1697.055	1686.144	1682.293	1679.725	1666.246
159.5	1703.474	1692.562	1688.711	1686.786	1673.307
160.0	1709.250	1698.339	1695.130	1693.204	1680.367
160.5	1715.027	1704.116	1700.906	1699.623	1687.428
161.0	1720.804	1709.892	1706.683	1706.041	1694.488
161.5	1726.580	1716.311	1711.818	1712.460	1701.548
162.0	1732.999	1722.088	1716.953	1718.878	1707.967
162.5	1738.776	1727.864	1722.088	1724.655	1713.743
163.0	1744.552	1733.641	1727.222	1730.432	1719.520
163.5	1750.329	1738.776	1732.357	1736.208	1724.655
164.0	1756.106	1743.910	1736.850	1741.343	1729.790
164.5	1760.599	1749.045	1741.343	1746.478	1734.925
165.0	1765.733	1754.180	1745.836	1751.613	1739.417
165.5	1770.868	1758.673	1750.329	1756.106	1743.910
166.0	1776.003	1763.166	1754.822	1760.599	1747.762
166.5	1781.138	1767.659	1759.315	1764.450	1752.255

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

167.0	1785.631	1771.510	1763.166	1768.301	1756.106
167.5	1790.124	1775.361	1767.659	1772.152	1760.599
168.0	1794.617	1779.212	1771.510	1776.003	1764.450
168.5	1799.110	1783.063	1775.361	1779.854	1768.943
169.0	1802.961	1786.273	1779.212	1783.063	1772.794
169.5	1806.170	1789.482	1782.422	1786.273	1776.645
170.0	1809.379	1792.691	1785.631	1789.482	1781.138
170.5	1812.589	1795.900	1788.198	1792.691	1784.347
171.0	1815.798	1798.468	1790.766	1795.900	1787.556
171.5	1818.365	1801.035	1793.333	1799.110	1790.766
172.0	1820.933	1803.603	1795.259	1801.677	1793.333
172.5	1823.500	1806.170	1797.184	1803.603	1795.259
173.0	1826.067	1808.737	1799.110	1806.170	1796.542
173.5	1827.993	1810.663	1801.035	1807.454	1797.826
174.0	1829.919	1812.589	1802.961	1808.737	1798.468
174.5	1831.202	1813.872	1804.244	1810.021	1799.110
175.0	1832.486	1815.798	1805.528	1810.663	1799.110
175.5	1833.770	1817.082	1807.454	1811.305	1799.752
176.0	1835.053	1818.365	1808.737	1811.305	1799.752
176.5	1835.695	1819.649	1809.379	1811.947	1799.752
177.0	1836.337	1820.933	1810.663	1811.947	1799.110
177.5	1837.621	1822.216	1811.947	1811.947	1799.110
178.0	1838.263	1822.216	1812.589	1811.947	1799.752
178.5	1838.263	1822.858	1813.230	1811.947	1799.752
179.0	1838.904	1823.500	1813.230	1811.947	1799.752
179.5	1839.546	1823.500	1813.872	1811.947	1799.752
180.0	1817.082	1817.082	1817.082	1817.082	1817.082



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

Zone	Lumens	%Lamp	%Fixt
0-20	650.60	N.A.	7.00
0-30	1360.19	N.A.	14.70
0-40	2185.17	N.A.	23.70
0-60	3713.09	N.A.	40.20
0-80	4547.1	N.A.	49.30
0-90	4635.22	N.A.	50.20
10-90	4465.4	N.A.	48.40
20-40	1534.56	N.A.	16.60
20-50	2353.52	N.A.	25.50
40-70	2058.93	N.A.	22.30
60-80	834.00	N.A.	9.00
70-80	303.00	N.A.	3.30
80-90	88.12	N.A.	1.00
90-110	262.96	N.A.	2.80
90-120	675.05	N.A.	7.30
90-130	1367.54	N.A.	14.80
90-150	3180.8	N.A.	34.50
90-180	4597.09	N.A.	49.80
110-180	4334.13	N.A.	46.90
0-180	9232.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.82
10-20	480.78
20-30	709.59
30-40	824.98
40-50	818.95
50-60	708.97
60-70	531.00
70-80	303.00
80-90	88.12
90-100	56.72
100-110	206.25
110-120	412.09
120-130	692.49
130-140	905.50
140-150	907.76
150-160	749.85
160-170	494.12
170-180	172.32

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-935U-L12-935D-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	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-L15-935U-L12-935D-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	16.5	17.4	17.5	18.4	19.6	16.4	17.3	17.4	18.3	19.5
	3H	18.3	19.1	19.3	20.0	21.3	18.2	19.0	19.2	20.0	21.2
	4H	18.9	19.6	19.9	20.6	21.9	18.8	19.6	19.8	20.5	21.8
	6H	19.3	20.0	20.3	21.0	22.3	19.3	20.0	20.3	21.0	22.3
	8H	19.5	20.1	20.5	21.1	22.4	19.4	20.1	20.4	21.1	22.4
	12H	19.5	20.2	20.5	21.2	22.5	19.5	20.1	20.5	21.1	22.5

### UGR Viewed Endwise

4H	2H	17.1	17.8	18.1	18.8	20.1	17.0	17.7	18.0	18.7	20.0
	3H	19.0	19.6	20.0	20.7	22.0	19.0	19.6	20.0	20.6	21.9
	4H	19.8	20.3	20.8	21.3	22.7	19.7	20.3	20.7	21.3	22.6
	6H	20.3	20.8	21.3	21.8	23.2	20.3	20.8	21.3	21.8	23.2
	8H	20.5	21.0	21.5	22.0	23.3	20.5	21.0	21.5	22.0	23.3
	12H	20.6	21.0	21.7	22.1	23.4	20.6	21.0	21.7	22.1	23.4

8H	4H	20.0	20.5	21.0	21.5	22.8	20.0	20.4	21.0	21.4	22.8
	6H	20.7	21.1	21.7	22.1	23.5	20.7	21.1	21.7	22.1	23.5
	8H	21.0	21.3	22.0	22.3	23.7	21.0	21.3	22.0	22.4	23.7
	12H	21.2	21.4	22.2	22.5	23.9	21.2	21.5	22.3	22.5	23.9

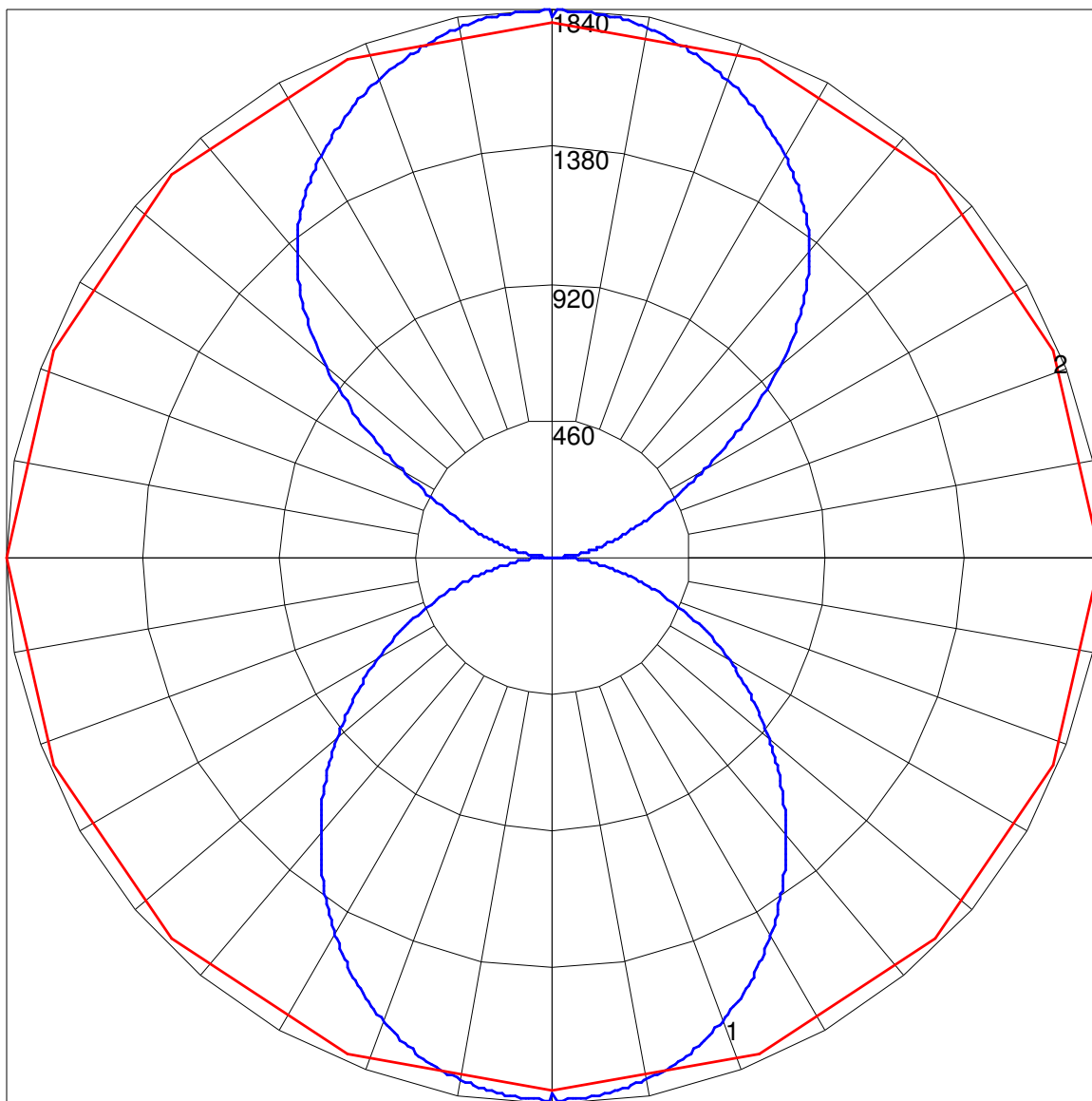
12H	4H	20.0	20.4	21.0	21.5	22.8	20.0	20.4	21.0	21.4	22.8
	6H	20.7	21.1	21.8	22.1	23.5	20.7	21.1	21.8	22.1	23.5
	8H	21.0	21.3	22.1	22.4	23.8	21.1	21.3	22.1	22.4	23.8

Maximum UGR = 23.9

# IES INDOOR REPORT

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

## POLAR GRAPH



Maximum Candela = 1839.546 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.)