

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-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-L8-850U-L15-850D-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	9991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	13553	13214	13063
55	12458	12156	12029
65	11491	11213	11092
75	9744	9739	9734
85	7610	7916	8145

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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>	1966.495	1966.495	1966.495	1966.495	1966.495
<b>0.5</b>	1996.191	1968.145	1958.247	1962.371	1955.772
<b>1.0</b>	1996.191	1967.320	1958.247	1962.371	1955.772
<b>1.5</b>	1995.366	1966.495	1957.422	1962.371	1954.947
<b>2.0</b>	1994.541	1965.670	1956.597	1961.546	1954.947
<b>2.5</b>	1993.716	1964.846	1954.947	1960.721	1954.122
<b>3.0</b>	1992.066	1963.196	1954.122	1959.896	1952.472
<b>3.5</b>	1990.417	1961.546	1952.472	1958.247	1950.823
<b>4.0</b>	1988.767	1959.896	1950.823	1956.597	1949.173
<b>4.5</b>	1987.117	1957.422	1949.173	1954.947	1946.698
<b>5.0</b>	1985.467	1955.772	1946.698	1952.472	1944.224
<b>5.5</b>	1982.993	1953.297	1944.224	1949.998	1941.749
<b>6.0</b>	1980.518	1949.998	1941.749	1947.523	1938.450
<b>6.5</b>	1977.219	1947.523	1938.450	1944.224	1935.975
<b>7.0</b>	1974.744	1944.224	1935.975	1940.924	1932.676
<b>7.5</b>	1972.269	1940.924	1932.676	1937.625	1930.201
<b>8.0</b>	1968.145	1937.625	1928.551	1934.325	1926.901
<b>8.5</b>	1964.846	1933.500	1924.427	1930.201	1922.777
<b>9.0</b>	1960.721	1930.201	1921.127	1926.077	1918.653
<b>9.5</b>	1956.597	1926.077	1916.178	1921.127	1914.528
<b>10.0</b>	1952.472	1921.952	1912.054	1917.003	1909.579
<b>10.5</b>	1947.523	1917.003	1907.104	1912.054	1905.455
<b>11.0</b>	1943.399	1912.054	1902.155	1907.104	1899.681
<b>11.5</b>	1937.625	1907.104	1897.206	1902.155	1894.731
<b>12.0</b>	1932.676	1902.155	1892.257	1896.381	1888.957
<b>12.5</b>	1927.726	1896.381	1886.483	1890.607	1883.183
<b>13.0</b>	1921.952	1891.432	1880.709	1884.833	1877.409
<b>13.5</b>	1916.178	1884.833	1874.934	1878.234	1871.635
<b>14.0</b>	1910.404	1879.059	1868.336	1872.460	1865.861
<b>14.5</b>	1904.630	1873.285	1861.737	1865.861	1859.262
<b>15.0</b>	1898.856	1866.686	1855.138	1859.262	1852.663
<b>15.5</b>	1891.432	1860.912	1848.539	1851.838	1845.239
<b>16.0</b>	1883.183	1854.313	1841.115	1845.239	1838.640
<b>16.5</b>	1874.934	1846.889	1833.691	1837.815	1831.216
<b>17.0</b>	1867.511	1839.465	1826.267	1830.391	1823.792
<b>17.5</b>	1859.262	1831.216	1818.018	1822.143	1815.544
<b>18.0</b>	1851.013	1822.968	1809.770	1813.894	1807.295
<b>18.5</b>	1842.764	1814.719	1801.521	1804.820	1799.046
<b>19.0</b>	1834.516	1806.470	1794.097	1796.572	1789.148
<b>19.5</b>	1825.442	1798.221	1785.848	1786.673	1779.249
<b>20.0</b>	1817.193	1789.148	1778.424	1777.600	1769.351
<b>20.5</b>	1808.120	1780.899	1770.176	1767.701	1759.452
<b>21.0</b>	1799.046	1771.825	1761.102	1757.803	1748.729
<b>21.5</b>	1789.148	1762.752	1751.204	1747.904	1738.006
<b>22.0</b>	1780.074	1752.853	1740.480	1737.181	1728.107
<b>22.5</b>	1770.176	1742.955	1730.582	1726.457	1717.384
<b>23.0</b>	1760.277	1733.056	1720.683	1714.909	1706.661
<b>23.5</b>	1750.379	1723.158	1709.960	1704.186	1696.762
<b>24.0</b>	1739.655	1713.260	1700.062	1693.463	1686.039
<b>24.5</b>	1728.932	1702.536	1689.338	1682.739	1675.315
<b>25.0</b>	1719.034	1691.813	1678.615	1672.016	1664.592
<b>25.5</b>	1708.310	1681.090	1667.067	1661.293	1653.044
<b>26.0</b>	1696.762	1669.541	1656.343	1650.569	1642.321
<b>26.5</b>	1686.039	1658.818	1644.795	1639.846	1631.597

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27.0	1674.491	1647.270	1633.247	1629.123	1620.049
27.5	1662.942	1635.722	1622.524	1618.399	1609.326
28.0	1651.394	1623.348	1610.151	1606.851	1597.777
28.5	1639.021	1610.975	1598.602	1596.128	1586.229
29.0	1626.648	1599.427	1587.054	1584.579	1574.681
29.5	1615.100	1587.054	1575.506	1572.206	1563.958
30.0	1602.727	1574.681	1563.958	1560.658	1552.409
30.5	1590.354	1562.308	1551.585	1549.110	1540.861
31.0	1577.156	1550.760	1539.212	1536.737	1529.313
31.5	1564.783	1538.387	1526.838	1524.364	1516.940
32.0	1551.585	1525.189	1514.465	1511.166	1504.567
32.5	1538.387	1512.816	1502.092	1498.793	1491.369
33.0	1525.189	1500.443	1489.719	1486.420	1478.171
33.5	1512.816	1487.245	1476.521	1473.222	1465.798
34.0	1498.793	1474.047	1464.148	1460.024	1452.600
34.5	1485.595	1460.849	1450.125	1446.826	1438.577
35.0	1472.397	1448.476	1436.927	1433.628	1424.554
35.5	1458.374	1434.453	1423.729	1420.430	1410.531
36.0	1444.351	1421.255	1410.531	1406.407	1397.333
36.5	1431.153	1408.057	1397.333	1393.209	1384.136
37.0	1417.130	1394.034	1383.311	1379.186	1370.113
37.5	1403.108	1380.011	1370.113	1365.163	1356.915
38.0	1388.260	1365.988	1356.090	1351.141	1342.892
38.5	1374.237	1351.966	1342.067	1337.943	1328.869
39.0	1361.039	1337.943	1328.044	1323.920	1315.671
39.5	1346.191	1323.920	1314.846	1309.897	1300.823
40.0	1332.169	1309.072	1300.823	1295.874	1287.625
40.5	1317.321	1295.049	1286.801	1281.851	1273.603
41.0	1303.298	1280.202	1272.778	1267.004	1258.755
41.5	1288.450	1266.179	1257.930	1252.981	1243.907
42.0	1274.428	1251.331	1243.907	1238.958	1229.884
42.5	1260.405	1237.308	1229.884	1224.110	1215.862
43.0	1245.557	1223.285	1215.862	1210.087	1201.014
43.5	1231.534	1208.438	1201.014	1196.065	1186.991
44.0	1216.686	1193.590	1186.166	1181.217	1172.968
44.5	1201.839	1178.742	1171.319	1166.369	1158.121
45.0	1186.991	1164.720	1157.296	1151.522	1144.098
45.5	1172.968	1149.872	1142.448	1137.499	1130.075
46.0	1158.121	1135.024	1127.600	1122.651	1116.052
46.5	1143.273	1120.176	1113.577	1108.628	1102.029
47.0	1128.425	1105.329	1098.730	1093.781	1087.182
47.5	1112.753	1090.481	1083.882	1078.933	1073.159
48.0	1097.905	1075.633	1069.034	1064.910	1058.311
48.5	1083.057	1060.786	1055.012	1050.062	1043.463
49.0	1067.385	1045.938	1040.164	1035.215	1029.440
49.5	1052.537	1031.090	1025.316	1021.192	1015.418
50.0	1036.864	1016.243	1010.468	1006.344	1000.570
50.5	1021.192	1001.395	995.621	991.496	986.547
51.0	1005.519	986.547	980.773	976.649	971.699
51.5	990.671	971.699	965.925	962.626	956.852
52.0	975.824	956.852	951.078	947.778	942.829
52.5	960.151	942.004	936.230	933.755	927.981
53.0	945.304	927.156	921.382	918.908	913.134
53.5	929.631	912.309	906.535	904.060	898.286
54.0	914.783	897.461	892.512	890.037	883.438
54.5	899.936	883.438	877.664	875.189	868.590

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55.0	885.088	869.415	863.641	861.167	854.568
55.5	871.065	854.568	848.793	846.319	840.545
56.0	855.392	839.720	833.946	832.296	825.697
56.5	840.545	825.697	819.511	817.696	811.179
57.0	826.522	810.849	804.910	802.931	796.744
57.5	812.004	796.497	790.393	788.578	782.144
58.0	797.486	782.309	775.792	774.143	767.709
58.5	782.886	768.038	761.439	759.955	753.851
59.0	768.533	753.686	747.004	745.602	739.745
59.5	754.593	739.168	732.321	731.332	725.805
60.0	740.323	724.733	717.804	716.979	711.617
60.5	726.217	710.627	703.781	702.544	697.264
61.0	712.360	696.522	689.841	688.438	683.242
61.5	697.512	682.582	675.983	674.416	669.384
62.0	682.912	668.229	661.630	660.475	655.196
62.5	667.981	654.949	648.102	647.195	641.751
63.0	653.629	643.235	637.709	637.296	632.842
63.5	639.111	630.450	626.078	625.171	620.551
64.0	630.367	617.994	614.035	612.220	606.941
64.5	616.757	604.714	600.425	598.775	593.826
65.0	601.497	590.526	586.979	585.412	580.628
65.5	585.907	576.173	572.956	572.214	567.347
66.0	570.894	562.150	559.263	558.933	553.737
66.5	556.046	547.798	545.323	545.323	540.704
67.0	541.364	533.527	531.548	531.795	527.588
67.5	526.928	519.504	517.690	518.185	514.060
68.0	512.328	505.482	503.832	504.492	500.202
68.5	497.645	491.211	489.892	490.799	486.592
69.0	482.468	476.859	475.869	476.364	472.487
69.5	467.703	462.753	461.599	462.176	458.629
70.0	453.102	448.483	447.658	447.906	444.771
70.5	438.750	434.130	433.553	433.800	430.831
71.0	424.067	419.860	419.695	420.025	416.808
71.5	409.384	405.590	405.920	406.167	403.362
72.0	395.114	391.237	391.897	392.227	389.835
72.5	380.843	377.132	378.204	378.534	376.554
73.0	366.738	363.356	364.841	365.253	363.521
73.5	353.045	349.746	351.478	352.220	350.323
74.0	339.517	336.135	338.280	338.857	337.620
74.5	325.990	322.773	325.165	325.742	324.835
75.0	312.379	309.492	312.214	312.792	312.049
75.5	298.934	296.212	299.346	300.088	299.264
76.0	285.323	283.426	286.643	287.468	286.808
76.5	272.455	270.806	274.023	274.930	274.353
77.0	259.917	258.103	261.650	262.474	261.567
77.5	246.967	245.729	249.276	249.936	249.029
78.0	234.346	233.356	236.903	237.893	236.986
78.5	221.808	221.313	224.695	225.850	225.108
79.0	209.765	209.270	212.735	214.137	213.559
79.5	197.722	197.474	200.939	202.424	201.929
80.0	185.844	185.926	189.143	191.205	190.545
80.5	173.883	174.625	177.925	179.905	179.410
81.0	162.417	163.572	166.789	168.851	168.521
81.5	151.364	152.601	155.901	157.963	157.716
82.0	141.053	141.878	145.260	147.405	147.157
82.5	130.742	131.485	134.784	136.929	136.764

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83.0	120.431	121.586	124.473	126.700	126.865
83.5	110.285	111.688	114.492	116.637	117.132
84.0	100.799	101.954	104.594	106.656	107.398
84.5	91.148	92.386	94.860	96.923	97.665
85.0	82.157	83.147	85.457	87.271	87.931
85.5	73.414	73.909	75.888	77.785	78.445
86.0	64.835	65.000	66.732	68.464	69.289
86.5	56.339	56.339	57.906	59.473	60.216
87.0	47.760	47.760	48.915	50.895	51.472
87.5	39.264	39.346	40.419	42.398	43.141
88.0	31.180	31.098	32.170	34.315	35.140
88.5	23.426	22.931	24.334	26.231	27.386
89.0	15.178	14.930	16.827	18.642	19.879
89.5	7.011	8.331	10.064	11.466	11.878
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.091	2.683	2.477	2.408	2.614
91.0	11.215	5.917	4.816	4.747	4.679
91.5	18.026	12.040	7.155	7.087	7.018
92.0	24.906	20.021	10.320	9.219	9.219
92.5	32.062	28.278	15.962	11.559	11.352
93.0	39.492	36.190	22.567	15.343	13.829
93.5	46.992	43.758	29.654	20.709	18.026
94.0	54.353	51.189	37.497	27.108	23.737
94.5	61.922	58.619	45.684	33.713	29.929
95.0	69.352	66.256	53.734	40.455	36.052
95.5	76.783	73.412	61.578	47.404	42.520
96.0	83.869	80.705	69.283	54.629	49.124
96.5	91.025	87.998	76.989	61.990	55.936
97.0	97.974	95.153	84.626	69.352	63.160
97.5	105.129	102.377	92.332	76.852	70.384
98.0	112.216	109.464	99.831	84.282	77.677
98.5	119.302	116.619	107.056	91.850	84.970
99.0	126.527	123.981	114.417	99.075	92.332
99.5	133.820	131.274	121.848	106.299	99.556
100.0	140.975	138.636	129.279	113.729	106.643
100.5	148.405	145.997	136.709	121.435	113.798
101.0	156.042	153.359	144.277	129.210	121.573
101.5	163.817	160.859	151.983	136.984	129.623
102.0	171.385	168.633	159.689	144.759	137.604
102.5	179.298	176.339	167.670	152.534	145.516
103.0	187.416	184.320	175.582	160.239	153.566
103.5	195.535	192.439	183.976	168.496	161.547
104.0	203.860	200.626	192.507	177.027	169.872
104.5	212.460	209.157	201.039	185.765	178.197
105.0	221.267	217.895	209.501	194.365	186.659
105.5	230.280	226.771	218.239	203.034	195.053
106.0	239.430	235.715	227.115	211.841	203.447
106.5	248.650	244.934	236.403	220.716	211.910
107.0	258.488	254.567	246.310	230.142	221.129
107.5	268.671	264.474	256.356	240.118	231.105
108.0	278.785	274.657	266.607	250.920	241.357
108.5	289.449	285.046	276.858	261.722	251.952
109.0	300.389	295.641	287.385	272.662	262.685
109.5	311.603	306.650	298.462	283.532	273.556
110.0	323.575	317.933	309.815	294.678	284.908
110.5	335.822	329.492	321.442	306.650	296.673

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111.0	348.206	341.601	333.482	319.103	308.507
111.5	360.865	354.054	345.729	331.762	320.685
112.0	374.007	366.851	357.907	344.422	332.313
112.5	387.217	379.992	370.223	357.013	344.628
113.0	401.046	393.546	383.226	370.016	357.494
113.5	415.288	407.719	396.986	384.052	371.323
114.0	429.736	422.168	411.572	398.982	386.666
114.5	444.666	437.098	426.434	414.531	402.972
115.0	459.802	452.441	441.845	430.218	419.485
115.5	475.627	467.921	457.670	445.836	435.791
116.0	491.589	484.021	474.044	462.279	452.372
116.5	508.445	500.533	490.970	479.136	470.054
117.0	525.990	517.390	508.033	497.299	488.286
117.5	538.925	530.531	523.651	514.018	506.794
118.0	555.437	545.874	539.681	531.288	523.238
118.5	574.633	564.175	556.056	547.318	538.030
119.0	593.416	582.201	574.633	565.482	554.474
119.5	612.405	601.397	594.310	583.921	572.913
120.0	632.013	621.280	614.056	604.080	592.384
120.5	651.484	641.439	634.421	625.477	613.162
121.0	671.918	662.011	654.924	646.806	635.247
121.5	692.146	682.376	675.359	668.410	656.851
122.0	713.475	703.154	696.962	690.082	678.523
122.5	734.115	723.795	718.291	711.411	699.026
123.0	755.444	745.812	740.307	734.803	721.731
123.5	777.460	767.828	763.700	758.196	745.124
124.0	799.477	790.533	786.405	781.589	769.204
124.5	821.494	812.549	809.109	804.293	792.597
125.0	843.510	834.566	831.126	826.998	815.301
125.5	866.215	857.270	853.830	849.702	837.318
126.0	888.231	879.287	877.223	872.407	859.335
126.5	910.248	901.304	900.616	896.488	882.727
127.0	932.952	924.008	924.008	920.568	907.496
127.5	955.657	946.025	946.025	943.961	932.264
128.0	977.674	968.041	968.729	967.353	955.657
128.5	999.690	989.370	990.746	990.746	978.362
129.0	1021.707	1010.699	1012.763	1013.451	1001.754
129.5	1043.723	1032.715	1035.467	1036.843	1025.835
130.0	1065.740	1054.732	1058.172	1060.236	1051.292
130.5	1087.757	1076.060	1081.564	1082.940	1075.372
131.0	1109.773	1097.389	1103.581	1104.957	1097.389
131.5	1130.414	1118.029	1125.598	1125.598	1118.717
132.0	1151.742	1138.670	1146.926	1147.614	1139.358
132.5	1172.383	1159.998	1168.255	1168.943	1159.998
133.0	1193.023	1181.327	1188.895	1190.271	1179.951
133.5	1213.664	1201.968	1210.224	1211.600	1201.280
134.0	1234.304	1221.920	1230.176	1232.240	1221.920
134.5	1252.881	1241.873	1249.441	1250.817	1241.873
135.0	1271.457	1261.137	1268.017	1269.393	1259.761
135.5	1289.346	1281.090	1286.594	1287.282	1277.650
136.0	1307.234	1299.666	1303.794	1305.858	1296.226
136.5	1325.811	1317.555	1320.995	1324.435	1315.491
137.0	1343.011	1335.443	1338.883	1341.635	1333.379
137.5	1360.212	1351.955	1355.396	1357.460	1349.203
138.0	1376.724	1368.468	1371.220	1372.596	1364.340
138.5	1393.237	1384.292	1387.044	1387.732	1378.788

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1409.061	1400.117	1402.869	1402.869	1393.237
139.5	1424.885	1415.941	1418.005	1417.317	1406.997
140.0	1440.022	1430.390	1433.142	1432.454	1422.133
140.5	1454.470	1444.150	1446.902	1446.214	1435.206
141.0	1468.919	1458.598	1460.662	1459.286	1448.278
141.5	1481.991	1471.671	1474.423	1472.359	1459.974
142.0	1495.751	1485.431	1487.495	1484.743	1472.359
142.5	1508.824	1498.503	1500.567	1497.815	1484.055
143.0	1521.896	1510.888	1512.952	1510.200	1496.439
143.5	1534.280	1523.960	1525.336	1522.584	1508.136
144.0	1545.977	1536.344	1537.032	1533.592	1519.144
144.5	1557.673	1548.041	1548.729	1544.601	1530.152
145.0	1568.681	1559.737	1559.737	1554.921	1540.472
145.5	1580.377	1571.433	1570.745	1566.617	1551.481
146.0	1591.386	1582.442	1581.754	1576.937	1562.489
146.5	1602.394	1593.450	1592.074	1587.946	1573.497
147.0	1612.714	1604.458	1601.706	1598.954	1584.506
147.5	1623.035	1614.778	1612.026	1609.274	1594.826
148.0	1633.355	1625.099	1620.971	1618.906	1605.834
148.5	1643.675	1635.419	1629.915	1628.539	1616.842
149.0	1653.307	1645.739	1638.859	1638.171	1627.851
149.5	1662.940	1655.371	1647.115	1647.803	1638.171
150.0	1672.572	1665.004	1656.059	1656.747	1647.803
150.5	1682.204	1674.636	1664.316	1665.004	1657.435
151.0	1691.148	1683.580	1672.572	1673.260	1666.380
151.5	1700.781	1692.524	1681.516	1681.516	1674.636
152.0	1709.725	1701.469	1689.772	1689.084	1682.892
152.5	1718.669	1709.725	1698.029	1697.341	1690.460
153.0	1727.613	1717.981	1706.285	1705.597	1697.341
153.5	1735.870	1726.237	1714.541	1713.853	1703.533
154.0	1744.126	1734.494	1723.485	1722.109	1710.413
154.5	1753.070	1742.062	1731.741	1729.677	1717.293
155.0	1761.326	1749.630	1739.998	1737.934	1724.861
155.5	1768.894	1756.510	1748.254	1746.190	1732.429
156.0	1776.463	1764.078	1757.198	1753.758	1739.998
156.5	1784.031	1771.646	1765.454	1762.014	1747.566
157.0	1791.599	1779.215	1773.711	1770.270	1755.134
157.5	1798.479	1786.095	1781.279	1777.839	1762.702
158.0	1805.359	1792.975	1788.847	1785.407	1770.270
158.5	1812.928	1800.543	1796.415	1792.975	1778.527
159.0	1819.120	1807.423	1803.295	1800.543	1786.095
159.5	1826.000	1814.304	1810.175	1808.111	1793.663
160.0	1832.192	1820.496	1817.056	1814.992	1801.231
160.5	1838.384	1826.688	1823.248	1821.872	1808.799
161.0	1844.576	1832.880	1829.440	1828.752	1816.368
161.5	1850.769	1839.760	1834.944	1835.632	1823.936
162.0	1857.649	1845.952	1840.448	1842.512	1830.816
162.5	1863.841	1852.145	1845.952	1848.705	1837.008
163.0	1870.033	1858.337	1851.457	1854.897	1843.200
163.5	1876.225	1863.841	1856.961	1861.089	1848.705
164.0	1882.417	1869.345	1861.777	1866.593	1854.209
164.5	1887.234	1874.849	1866.593	1872.097	1859.713
165.0	1892.738	1880.353	1871.409	1877.601	1864.529
165.5	1898.242	1885.169	1876.225	1882.417	1869.345
166.0	1903.746	1889.986	1881.041	1887.234	1873.473
166.5	1909.250	1894.802	1885.857	1891.362	1878.289

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1914.066	1898.930	1889.986	1895.490	1882.417
167.5	1918.882	1903.058	1894.802	1899.618	1887.234
168.0	1923.698	1907.186	1898.930	1903.746	1891.362
168.5	1928.515	1911.314	1903.058	1907.874	1896.178
169.0	1932.643	1914.754	1907.186	1911.314	1900.306
169.5	1936.083	1918.194	1910.626	1914.754	1904.434
170.0	1939.523	1921.634	1914.066	1918.194	1909.250
170.5	1942.963	1925.075	1916.818	1921.634	1912.690
171.0	1946.403	1927.827	1919.570	1925.075	1916.130
171.5	1949.155	1930.579	1922.322	1928.515	1919.570
172.0	1951.907	1933.331	1924.386	1931.267	1922.322
172.5	1954.659	1936.083	1926.451	1933.331	1924.386
173.0	1957.411	1938.835	1928.515	1936.083	1925.763
173.5	1959.475	1940.899	1930.579	1937.459	1927.139
174.0	1961.539	1942.963	1932.643	1938.835	1927.827
174.5	1962.916	1944.339	1934.019	1940.211	1928.515
175.0	1964.292	1946.403	1935.395	1940.899	1928.515
175.5	1965.668	1947.779	1937.459	1941.587	1929.203
176.0	1967.044	1949.155	1938.835	1941.587	1929.203
176.5	1967.732	1950.531	1939.523	1942.275	1929.203
177.0	1968.420	1951.907	1940.899	1942.275	1928.515
177.5	1969.796	1953.283	1942.275	1942.275	1928.515
178.0	1970.484	1953.283	1942.963	1942.275	1929.203
178.5	1970.484	1953.971	1943.651	1942.275	1929.203
179.0	1971.172	1954.659	1943.651	1942.275	1929.203
179.5	1971.860	1954.659	1944.339	1942.275	1929.203
180.0	1947.779	1947.779	1947.779	1947.779	1947.779



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	710.70	N.A.	7.10
0-30	1485.84	N.A.	14.90
0-40	2387.02	N.A.	23.90
0-60	4056.08	N.A.	40.60
0-80	4967.13	N.A.	49.70
0-90	5063.39	N.A.	50.70
10-90	4877.88	N.A.	48.80
20-40	1676.31	N.A.	16.80
20-50	2570.92	N.A.	25.70
40-70	2249.12	N.A.	22.50
60-80	911.04	N.A.	9.10
70-80	330.99	N.A.	3.30
80-90	96.26	N.A.	1.00
90-110	281.88	N.A.	2.80
90-120	723.60	N.A.	7.20
90-130	1465.91	N.A.	14.70
90-150	3409.58	N.A.	34.10
90-180	4927.75	N.A.	49.30
110-180	4645.87	N.A.	46.50
0-180	9991.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	185.51
10-20	525.20
20-30	775.13
30-40	901.18
40-50	894.60
50-60	774.46
60-70	580.05
70-80	330.99
80-90	96.26
90-100	60.80
100-110	221.08
110-120	441.73
120-130	742.30
130-140	970.62
140-150	973.05
150-160	803.79
160-170	529.66
170-180	184.71

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-F-F-DIM-UNV\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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-L8-850U-L15-850D-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	16.9	17.8	17.9	18.8	20.0	16.8	17.7	17.8	18.7	19.9
	3H	18.7	19.5	19.6	20.4	21.7	18.6	19.4	19.5	20.3	21.6
	4H	19.3	20.0	20.3	21.0	22.3	19.2	20.0	20.2	20.9	22.2
	6H	19.7	20.4	20.7	21.4	22.7	19.7	20.4	20.7	21.3	22.6
	8H	19.9	20.5	20.8	21.5	22.8	19.8	20.5	20.8	21.5	22.8
	12H	19.9	20.6	20.9	21.5	22.9	19.9	20.5	20.9	21.5	22.9

### UGR Viewed Endwise

4H	2H	17.5	18.2	18.4	19.2	20.5	17.4	18.1	18.3	19.1	20.4
	3H	19.4	20.0	20.4	21.0	22.3	19.3	20.0	20.3	21.0	22.3
	4H	20.2	20.7	21.1	21.7	23.0	20.1	20.7	21.1	21.7	23.0
	6H	20.7	21.2	21.7	22.2	23.5	20.7	21.2	21.7	22.2	23.5
	8H	20.9	21.3	21.9	22.4	23.7	20.9	21.3	21.9	22.4	23.7
	12H	21.0	21.4	22.0	22.4	23.8	21.0	21.4	22.1	22.5	23.8

8H	4H	20.4	20.9	21.4	21.9	23.2	20.4	20.8	21.4	21.8	23.2
	6H	21.1	21.5	22.1	22.5	23.9	21.1	21.5	22.1	22.5	23.8
	8H	21.4	21.7	22.4	22.7	24.1	21.4	21.7	22.4	22.7	24.1
	12H	21.5	21.8	22.6	22.9	24.3	21.6	21.9	22.6	22.9	24.3

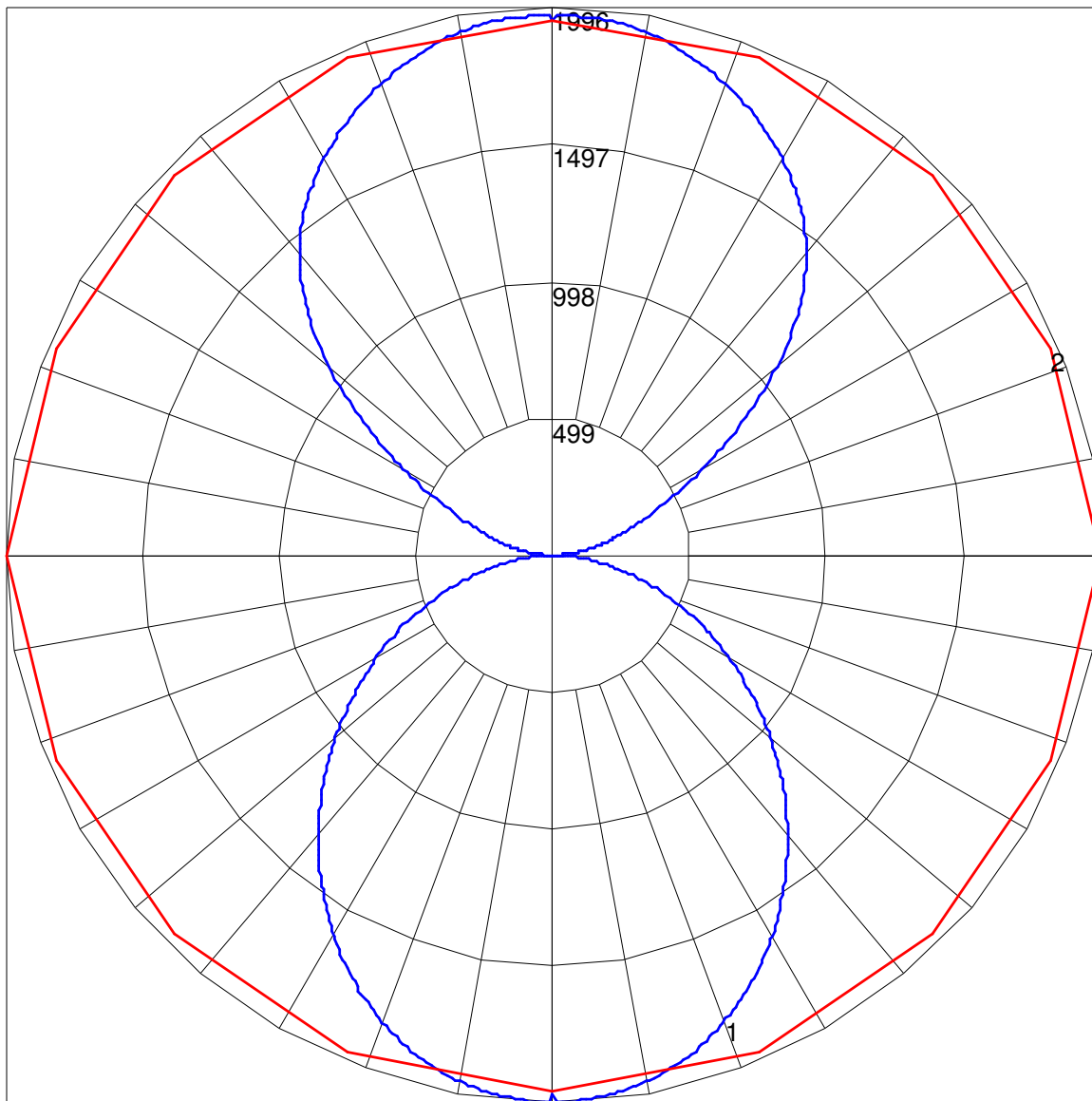
12H	4H	20.4	20.8	21.4	21.8	23.2	20.3	20.8	21.4	21.8	23.1
	6H	21.1	21.5	22.2	22.5	23.9	21.1	21.5	22.2	22.5	23.9
	8H	21.4	21.7	22.5	22.8	24.2	21.4	21.7	22.5	22.8	24.2

Maximum UGR = 24.3

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-850U-L15-850D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1996.191 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.)