

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-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-L15-827U-L12-827D-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	10790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	14499	14136	13975
55	13328	13005	12869
65	12293	11997	11867
75	10425	10419	10414
85	8142	8469	8714

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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>	2103.854	2103.854	2103.854	2103.854	2103.854
<b>0.5</b>	2135.623	2105.619	2095.029	2099.441	2092.381
<b>1.0</b>	2135.623	2104.736	2095.029	2099.441	2092.381
<b>1.5</b>	2134.741	2103.854	2094.146	2099.441	2091.499
<b>2.0</b>	2133.858	2102.971	2093.264	2098.559	2091.499
<b>2.5</b>	2132.976	2102.089	2091.499	2097.676	2090.617
<b>3.0</b>	2131.211	2100.324	2090.617	2096.794	2088.852
<b>3.5</b>	2129.446	2098.559	2088.852	2095.029	2087.087
<b>4.0</b>	2127.681	2096.794	2087.087	2093.264	2085.322
<b>4.5</b>	2125.916	2094.146	2085.322	2091.499	2082.674
<b>5.0</b>	2124.151	2092.381	2082.674	2088.852	2080.027
<b>5.5</b>	2121.504	2089.734	2080.027	2086.204	2077.379
<b>6.0</b>	2118.856	2086.204	2077.379	2083.557	2073.849
<b>6.5</b>	2115.326	2083.557	2073.849	2080.027	2071.202
<b>7.0</b>	2112.679	2080.027	2071.202	2076.497	2067.672
<b>7.5</b>	2110.031	2076.497	2067.672	2072.967	2065.024
<b>8.0</b>	2105.619	2072.967	2063.259	2069.437	2061.494
<b>8.5</b>	2102.089	2068.554	2058.847	2065.024	2057.082
<b>9.0</b>	2097.676	2065.024	2055.317	2060.612	2052.669
<b>9.5</b>	2093.264	2060.612	2050.022	2055.317	2048.257
<b>10.0</b>	2088.852	2056.199	2045.610	2050.904	2042.962
<b>10.5</b>	2083.557	2050.904	2040.315	2045.610	2038.550
<b>11.0</b>	2079.144	2045.610	2035.020	2040.315	2032.372
<b>11.5</b>	2072.967	2040.315	2029.725	2035.020	2027.077
<b>12.0</b>	2067.672	2035.020	2024.430	2028.842	2020.900
<b>12.5</b>	2062.377	2028.842	2018.252	2022.665	2014.722
<b>13.0</b>	2056.199	2023.547	2012.075	2016.487	2008.545
<b>13.5</b>	2050.022	2016.487	2005.898	2009.428	2002.368
<b>14.0</b>	2043.845	2010.310	1998.838	2003.250	1996.190
<b>14.5</b>	2037.667	2004.133	1991.778	1996.190	1989.130
<b>15.0</b>	2031.490	1997.073	1984.718	1989.130	1982.070
<b>15.5</b>	2023.547	1990.895	1977.658	1981.188	1974.128
<b>16.0</b>	2014.722	1983.835	1969.716	1974.128	1967.068
<b>16.5</b>	2005.898	1975.893	1961.773	1966.186	1959.126
<b>17.0</b>	1997.955	1967.951	1953.831	1958.243	1951.183
<b>17.5</b>	1989.130	1959.126	1945.006	1949.418	1942.358
<b>18.0</b>	1980.305	1950.301	1936.181	1940.593	1933.533
<b>18.5</b>	1971.480	1941.476	1927.356	1930.886	1924.709
<b>19.0</b>	1962.656	1932.651	1919.414	1922.061	1914.119
<b>19.5</b>	1952.948	1923.826	1910.589	1911.471	1903.529
<b>20.0</b>	1944.123	1914.119	1902.646	1901.764	1892.939
<b>20.5</b>	1934.416	1905.294	1893.821	1891.174	1882.349
<b>21.0</b>	1924.709	1895.586	1884.114	1880.584	1870.877
<b>21.5</b>	1914.119	1885.879	1873.524	1869.994	1859.404
<b>22.0</b>	1904.411	1875.289	1862.052	1858.522	1848.815
<b>22.5</b>	1893.821	1864.699	1851.462	1847.050	1837.342
<b>23.0</b>	1883.232	1854.109	1840.872	1834.695	1825.870
<b>23.5</b>	1872.642	1843.520	1829.400	1823.222	1815.280
<b>24.0</b>	1861.169	1832.930	1818.810	1811.750	1803.808
<b>24.5</b>	1849.697	1821.457	1807.338	1800.278	1792.335
<b>25.0</b>	1839.107	1809.985	1795.865	1788.805	1780.863
<b>25.5</b>	1827.635	1798.513	1783.510	1777.333	1768.508
<b>26.0</b>	1815.280	1786.158	1772.038	1765.861	1757.036
<b>26.5</b>	1803.808	1774.685	1759.683	1754.388	1745.563

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27.0	1791.453	1762.331	1747.328	1742.916	1733.208
27.5	1779.098	1749.976	1735.856	1731.443	1721.736
28.0	1766.743	1736.738	1722.619	1719.089	1709.381
28.5	1753.506	1723.501	1710.264	1707.616	1697.026
29.0	1740.268	1711.146	1697.909	1695.261	1684.672
29.5	1727.914	1697.909	1685.554	1682.024	1673.199
30.0	1714.676	1684.672	1673.199	1669.669	1660.844
30.5	1701.439	1671.434	1659.962	1657.314	1648.489
31.0	1687.319	1659.079	1646.725	1644.077	1636.135
31.5	1674.082	1645.842	1633.487	1630.840	1622.897
32.0	1659.962	1631.722	1620.250	1616.720	1609.660
32.5	1645.842	1618.485	1607.013	1603.483	1595.540
33.0	1631.722	1605.248	1593.775	1590.245	1581.420
33.5	1618.485	1591.128	1579.655	1576.125	1568.183
34.0	1603.483	1577.008	1566.418	1562.006	1554.063
34.5	1589.363	1562.888	1551.416	1547.886	1539.061
35.0	1575.243	1549.651	1537.296	1533.766	1524.059
35.5	1560.241	1534.648	1523.176	1519.646	1509.056
36.0	1545.238	1520.529	1509.056	1504.644	1494.936
36.5	1531.118	1506.409	1494.936	1490.524	1480.817
37.0	1516.116	1491.406	1479.934	1475.522	1465.814
37.5	1501.114	1476.404	1465.814	1460.519	1451.694
38.0	1485.229	1461.402	1450.812	1445.517	1436.692
38.5	1470.227	1446.400	1435.810	1431.397	1421.690
39.0	1456.107	1431.397	1420.807	1416.395	1407.570
39.5	1440.222	1416.395	1406.688	1401.393	1391.685
40.0	1425.220	1400.510	1391.685	1386.390	1377.565
40.5	1409.335	1385.508	1376.683	1371.388	1362.563
41.0	1394.333	1369.623	1361.681	1355.503	1346.678
41.5	1378.448	1354.621	1345.796	1340.501	1330.793
42.0	1363.446	1338.736	1330.793	1325.499	1315.791
42.5	1348.443	1323.734	1315.791	1309.614	1300.789
43.0	1332.558	1308.731	1300.789	1294.611	1284.904
43.5	1317.556	1292.846	1284.904	1279.609	1269.902
44.0	1301.671	1276.962	1269.019	1263.724	1254.899
44.5	1285.787	1261.077	1253.134	1247.839	1239.015
45.0	1269.902	1246.075	1238.132	1231.955	1224.012
45.5	1254.899	1230.190	1222.247	1216.952	1209.010
46.0	1239.015	1214.305	1206.362	1201.068	1194.008
46.5	1223.130	1198.420	1191.360	1186.065	1179.005
47.0	1207.245	1182.535	1175.475	1170.180	1163.121
47.5	1190.478	1166.650	1159.591	1154.296	1148.118
48.0	1174.593	1150.766	1143.706	1139.293	1132.233
48.5	1158.708	1134.881	1128.703	1123.409	1116.349
49.0	1141.941	1118.996	1112.819	1107.524	1101.346
49.5	1126.056	1103.111	1096.934	1092.521	1086.344
50.0	1109.289	1087.226	1081.049	1076.637	1070.459
50.5	1092.521	1071.342	1065.164	1060.752	1055.457
51.0	1075.754	1055.457	1049.279	1044.867	1039.572
51.5	1059.869	1039.572	1033.395	1029.865	1023.687
52.0	1043.985	1023.687	1017.510	1013.980	1008.685
52.5	1027.217	1007.802	1001.625	998.978	992.800
53.0	1011.332	991.918	985.740	983.093	976.915
53.5	994.565	976.033	969.855	967.208	961.031
54.0	978.680	960.148	954.853	952.206	945.146
54.5	962.796	945.146	938.968	936.321	929.261

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55.0	946.911	930.143	923.966	921.319	914.259
55.5	931.908	914.259	908.081	905.434	899.256
56.0	915.141	898.374	892.196	890.431	883.372
56.5	899.256	883.372	876.753	874.811	867.840
57.0	884.254	867.487	861.133	859.015	852.396
57.5	868.722	852.131	845.601	843.660	836.776
58.0	853.190	836.953	829.981	828.216	821.333
58.5	837.570	821.686	814.626	813.037	806.507
59.0	822.215	806.330	799.182	797.682	791.416
59.5	807.301	790.798	783.474	782.415	776.502
60.0	792.034	775.355	767.942	767.059	761.323
60.5	776.943	760.264	752.940	751.616	745.968
61.0	762.118	745.174	738.026	736.525	730.966
61.5	746.233	730.260	723.200	721.523	716.140
62.0	730.613	714.904	707.844	706.609	700.961
62.5	714.640	700.696	693.372	692.401	686.576
63.0	699.284	688.165	682.252	681.811	677.046
63.5	683.752	674.486	669.809	668.838	663.896
64.0	674.398	661.161	656.925	654.983	649.335
64.5	659.837	646.953	642.364	640.599	635.304
65.0	643.511	631.774	627.979	626.302	621.184
65.5	626.832	616.419	612.977	612.183	606.976
66.0	610.771	601.416	598.328	597.975	592.415
66.5	594.886	586.061	583.413	583.413	578.472
67.0	579.178	570.794	568.676	568.941	564.440
67.5	563.734	555.792	553.850	554.380	549.967
68.0	548.114	540.789	539.024	539.730	535.141
68.5	532.406	525.522	524.110	525.081	520.580
69.0	516.168	510.167	509.108	509.637	505.490
69.5	500.371	495.076	493.841	494.459	490.664
70.0	484.751	479.809	478.927	479.192	475.838
70.5	469.396	464.454	463.836	464.101	460.924
71.0	453.688	449.187	449.010	449.363	445.922
71.5	437.979	433.920	434.273	434.538	431.537
72.0	422.712	418.565	419.271	419.624	417.064
72.5	407.445	403.474	404.621	404.974	402.856
73.0	392.355	388.736	390.325	390.766	388.913
73.5	377.705	374.175	376.029	376.823	374.793
74.0	363.232	359.614	361.909	362.526	361.203
74.5	348.760	345.318	347.877	348.495	347.524
75.0	334.199	331.110	334.022	334.640	333.846
75.5	319.814	316.902	320.255	321.050	320.167
76.0	305.253	303.223	306.665	307.547	306.841
76.5	291.486	289.721	293.163	294.134	293.516
77.0	278.072	276.131	279.926	280.808	279.837
77.5	264.217	262.893	266.688	267.394	266.423
78.0	250.715	249.656	253.451	254.510	253.539
78.5	237.301	236.772	240.390	241.625	240.831
79.0	224.417	223.887	227.594	229.094	228.476
79.5	211.533	211.268	214.974	216.563	216.033
80.0	198.825	198.913	202.355	204.561	203.855
80.5	186.029	186.823	190.353	192.471	191.941
81.0	173.762	174.998	178.439	180.646	180.293
81.5	161.937	163.260	166.790	168.997	168.732
82.0	150.906	151.788	155.406	157.701	157.436
82.5	139.875	140.669	144.199	146.493	146.317

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83.0	128.843	130.079	133.168	135.550	135.727
83.5	117.989	119.489	122.489	124.784	125.313
84.0	107.840	109.076	111.900	114.106	114.900
84.5	97.515	98.839	101.486	103.692	104.487
85.0	87.896	88.955	91.426	93.367	94.073
85.5	78.542	79.071	81.189	83.219	83.925
86.0	69.364	69.540	71.393	73.247	74.129
86.5	60.274	60.274	61.951	63.627	64.422
87.0	51.096	51.096	52.332	54.450	55.067
87.5	42.006	42.095	43.242	45.360	46.154
88.0	33.358	33.270	34.417	36.712	37.594
88.5	25.063	24.533	26.033	28.063	29.299
89.0	16.238	15.973	18.003	19.944	21.268
89.5	7.501	8.913	10.766	12.267	12.708
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.551	2.925	2.700	2.625	2.850
91.0	12.227	6.451	5.251	5.176	5.101
91.5	19.653	13.127	7.801	7.726	7.651
92.0	27.154	21.828	11.252	10.052	10.052
92.5	34.955	30.830	17.403	12.602	12.377
93.0	43.057	39.456	24.604	16.728	15.077
93.5	51.233	47.707	32.330	22.578	19.653
94.0	59.259	55.809	40.881	29.555	25.879
94.5	67.510	63.910	49.808	36.756	32.630
95.0	75.612	72.236	58.584	44.107	39.306
95.5	83.713	80.037	67.135	51.683	46.357
96.0	91.439	87.989	75.537	59.559	53.558
96.5	99.240	95.940	83.938	67.585	60.984
97.0	106.816	103.741	92.264	75.612	68.861
97.5	114.618	111.617	100.666	83.788	76.737
98.0	122.344	119.343	108.842	91.889	84.688
98.5	130.070	127.145	116.718	100.140	92.639
99.0	137.946	135.171	124.744	108.017	100.666
99.5	145.897	143.122	132.845	115.893	108.542
100.0	153.699	151.148	140.947	123.994	116.268
100.5	161.800	159.175	149.048	132.395	124.069
101.0	170.126	167.201	157.299	140.872	132.545
101.5	178.603	175.377	165.701	149.348	141.322
102.0	186.854	183.853	174.102	157.824	150.023
102.5	195.480	192.255	182.803	166.301	158.649
103.0	204.332	200.956	191.430	174.702	167.426
103.5	213.183	209.807	200.581	183.703	176.127
104.0	222.259	218.734	209.882	193.005	185.204
104.5	231.636	228.035	219.184	202.531	194.280
105.0	241.237	237.562	228.410	211.908	203.506
105.5	251.064	247.238	237.937	221.359	212.658
106.0	261.040	256.990	247.613	230.961	221.809
106.5	271.092	267.041	257.740	240.637	231.036
107.0	281.818	277.543	268.541	250.914	241.087
107.5	292.920	288.344	279.493	261.790	251.964
108.0	303.947	299.446	290.670	273.567	263.141
108.5	315.574	310.773	301.847	285.344	274.692
109.0	327.501	322.325	313.323	297.271	286.394
109.5	339.727	334.327	325.400	309.123	298.246
110.0	352.779	346.628	337.777	321.275	310.623
110.5	366.131	359.230	350.454	334.327	323.450

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111.0	379.634	372.432	363.581	347.904	336.352
111.5	393.436	386.010	376.933	361.706	349.629
112.0	407.763	399.962	390.210	375.508	362.306
112.5	422.165	414.289	403.637	389.235	375.733
113.0	437.242	429.066	417.814	403.412	389.760
113.5	452.770	444.519	432.817	418.715	404.837
114.0	468.522	460.271	448.719	434.992	421.565
114.5	484.800	476.548	464.922	451.945	439.343
115.0	501.302	493.276	481.724	469.047	457.346
115.5	518.555	510.154	498.977	486.075	475.123
116.0	535.958	527.706	516.830	504.003	493.201
116.5	554.335	545.709	535.283	522.381	512.479
117.0	573.463	564.087	553.885	542.184	532.357
117.5	587.566	578.414	570.913	560.411	552.535
118.0	605.568	595.142	588.391	579.239	570.463
118.5	626.497	615.095	606.243	596.717	586.590
119.0	646.975	634.748	626.497	616.520	604.518
119.5	667.678	655.676	647.950	636.623	624.621
120.0	689.056	677.354	669.478	658.602	645.850
120.5	710.285	699.333	691.682	681.930	668.503
121.0	732.563	721.761	714.035	705.184	692.582
121.5	754.616	743.965	736.314	728.737	716.135
122.0	777.870	766.618	759.867	752.366	739.764
122.5	800.373	789.122	783.121	775.620	762.118
123.0	823.627	813.125	807.124	801.124	786.871
123.5	847.631	837.129	832.628	826.627	812.375
124.0	871.634	861.883	857.382	852.131	838.629
124.5	895.638	885.887	882.136	876.885	864.133
125.0	919.642	909.890	906.140	901.639	888.887
125.5	944.396	934.644	930.894	926.393	912.891
126.0	968.399	958.648	956.397	951.147	936.894
126.5	992.403	982.652	981.901	977.401	962.398
127.0	1017.157	1007.405	1007.405	1003.655	989.403
127.5	1041.911	1031.409	1031.409	1029.159	1016.407
128.0	1065.914	1055.413	1056.163	1054.663	1041.911
128.5	1089.918	1078.666	1080.167	1080.167	1066.664
129.0	1113.922	1101.920	1104.170	1104.920	1092.168
129.5	1137.925	1125.924	1128.924	1130.424	1118.422
130.0	1161.929	1149.927	1153.678	1155.928	1146.177
130.5	1185.933	1173.181	1179.182	1180.682	1172.431
131.0	1209.937	1196.434	1203.186	1204.686	1196.434
131.5	1232.440	1218.938	1227.189	1227.189	1219.688
132.0	1255.694	1241.441	1250.443	1251.193	1242.192
132.5	1278.197	1264.695	1273.696	1274.447	1264.695
133.0	1300.701	1287.949	1296.200	1297.700	1286.448
133.5	1323.204	1310.452	1319.453	1320.954	1309.702
134.0	1345.708	1332.205	1341.207	1343.457	1332.205
134.5	1365.961	1353.959	1362.210	1363.710	1353.959
135.0	1386.214	1374.962	1382.463	1383.963	1373.462
135.5	1405.717	1396.715	1402.716	1403.466	1392.965
136.0	1425.220	1416.969	1421.469	1423.720	1413.218
136.5	1445.473	1436.472	1440.222	1443.973	1434.221
137.0	1464.226	1455.975	1459.725	1462.726	1453.724
137.5	1482.979	1473.977	1477.728	1479.978	1470.977
138.0	1500.981	1491.980	1494.981	1496.481	1487.479
138.5	1518.984	1509.233	1512.233	1512.983	1503.232

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1536.237	1526.485	1529.486	1529.486	1518.984
139.5	1553.490	1543.738	1545.988	1545.238	1533.987
140.0	1569.992	1559.490	1562.491	1561.741	1550.489
140.5	1585.745	1574.493	1577.493	1576.743	1564.741
141.0	1601.497	1590.245	1592.496	1590.995	1578.993
141.5	1615.749	1604.497	1607.498	1605.248	1591.745
142.0	1630.751	1619.500	1621.750	1618.750	1605.248
142.5	1645.004	1633.752	1636.002	1633.002	1618.000
143.0	1659.256	1647.254	1649.504	1646.504	1631.502
143.5	1672.758	1661.506	1663.006	1660.006	1644.254
144.0	1685.510	1675.008	1675.758	1672.008	1656.255
144.5	1698.262	1687.760	1688.510	1684.010	1668.257
145.0	1710.264	1700.512	1700.512	1695.261	1679.509
145.5	1723.016	1713.264	1712.514	1708.013	1691.511
146.0	1735.018	1725.266	1724.516	1719.265	1703.513
146.5	1747.019	1737.268	1735.768	1731.267	1715.515
147.0	1758.271	1749.270	1746.269	1743.269	1727.516
147.5	1769.523	1760.521	1757.521	1754.521	1738.768
148.0	1780.775	1771.773	1767.273	1765.022	1750.770
148.5	1792.026	1783.025	1777.024	1775.524	1762.772
149.0	1802.528	1794.277	1786.776	1786.025	1774.774
149.5	1813.030	1804.778	1795.777	1796.527	1786.025
150.0	1823.531	1815.280	1805.528	1806.279	1796.527
150.5	1834.033	1825.782	1814.530	1815.280	1807.029
151.0	1843.784	1835.533	1823.531	1824.281	1816.780
151.5	1854.286	1845.285	1833.283	1833.283	1825.782
152.0	1864.037	1855.036	1842.284	1841.534	1834.783
152.5	1873.789	1864.037	1851.285	1850.535	1843.034
153.0	1883.540	1873.039	1860.287	1859.537	1850.535
153.5	1892.542	1882.040	1869.288	1868.538	1857.286
154.0	1901.543	1891.042	1879.040	1877.540	1864.788
154.5	1911.295	1899.293	1888.041	1885.791	1872.289
155.0	1920.296	1907.544	1897.043	1894.792	1880.540
155.5	1928.547	1915.045	1906.044	1903.794	1888.791
156.0	1936.799	1923.297	1915.795	1912.045	1897.043
156.5	1945.050	1931.548	1924.797	1921.046	1905.294
157.0	1953.301	1939.799	1933.798	1930.048	1913.545
157.5	1960.802	1947.300	1942.049	1938.299	1921.796
158.0	1968.304	1954.801	1950.301	1946.550	1930.048
158.5	1976.555	1963.053	1958.552	1954.801	1939.049
159.0	1983.306	1970.554	1966.053	1963.053	1947.300
159.5	1990.807	1978.055	1973.554	1971.304	1955.552
160.0	1997.558	1984.806	1981.055	1978.805	1963.803
160.5	2004.309	1991.557	1987.807	1986.306	1972.054
161.0	2011.060	1998.308	1994.558	1993.807	1980.305
161.5	2017.811	2005.809	2000.558	2001.309	1988.557
162.0	2025.312	2012.560	2006.559	2008.810	1996.058
162.5	2032.063	2019.311	2012.560	2015.561	2002.809
163.0	2038.814	2026.062	2018.561	2022.312	2009.560
163.5	2045.565	2032.063	2024.562	2029.063	2015.561
164.0	2052.316	2038.064	2029.813	2035.064	2021.562
164.5	2057.567	2044.065	2035.064	2041.065	2027.563
165.0	2063.568	2050.066	2040.315	2047.066	2032.813
165.5	2069.569	2055.317	2045.565	2052.316	2038.064
166.0	2075.570	2060.568	2050.816	2057.567	2042.565
166.5	2081.571	2065.819	2056.067	2062.068	2047.816

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2086.822	2070.319	2060.568	2066.569	2052.316
167.5	2092.073	2074.820	2065.819	2071.069	2057.567
168.0	2097.323	2079.321	2070.319	2075.570	2062.068
168.5	2102.574	2083.821	2074.820	2080.071	2067.319
169.0	2107.075	2087.572	2079.321	2083.821	2071.819
169.5	2110.826	2091.322	2083.071	2087.572	2076.320
170.0	2114.576	2095.073	2086.822	2091.322	2081.571
170.5	2118.327	2098.824	2089.822	2095.073	2085.322
171.0	2122.077	2101.824	2092.823	2098.824	2089.072
171.5	2125.078	2104.825	2095.823	2102.574	2092.823
172.0	2128.078	2107.825	2098.074	2105.575	2095.823
172.5	2131.079	2110.826	2100.324	2107.825	2098.074
173.0	2134.079	2113.826	2102.574	2110.826	2099.574
173.5	2136.329	2116.076	2104.825	2112.326	2101.074
174.0	2138.580	2118.327	2107.075	2113.826	2101.824
174.5	2140.080	2119.827	2108.575	2115.326	2102.574
175.0	2141.580	2122.077	2110.075	2116.076	2102.574
175.5	2143.080	2123.577	2112.326	2116.826	2103.324
176.0	2144.581	2125.078	2113.826	2116.826	2103.324
176.5	2145.331	2126.578	2114.576	2117.577	2103.324
177.0	2146.081	2128.078	2116.076	2117.577	2102.574
177.5	2147.581	2129.578	2117.577	2117.577	2102.574
178.0	2148.331	2129.578	2118.327	2117.577	2103.324
178.5	2148.331	2130.329	2119.077	2117.577	2103.324
179.0	2149.081	2131.079	2119.077	2117.577	2103.324
179.5	2149.832	2131.079	2119.827	2117.577	2103.324
180.0	2123.577	2123.577	2123.577	2123.577	2123.577



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	760.35	N.A.	7.00
0-30	1589.62	N.A.	14.70
0-40	2553.75	N.A.	23.70
0-60	4339.4	N.A.	40.20
0-80	5314.08	N.A.	49.30
0-90	5417.06	N.A.	50.20
10-90	5218.6	N.A.	48.40
20-40	1793.4	N.A.	16.60
20-50	2750.5	N.A.	25.50
40-70	2406.22	N.A.	22.30
60-80	974.68	N.A.	9.00
70-80	354.11	N.A.	3.30
80-90	102.99	N.A.	1.00
90-110	307.32	N.A.	2.80
90-120	788.91	N.A.	7.30
90-130	1598.21	N.A.	14.80
90-150	3717.32	N.A.	34.50
90-180	5372.51	N.A.	49.80
110-180	5065.19	N.A.	46.90
0-180	10789.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	198.47
10-20	561.88
20-30	829.28
30-40	964.13
40-50	957.09
50-60	828.55
60-70	620.57
70-80	354.11
80-90	102.99
90-100	66.28
100-110	241.03
110-120	481.60
120-130	809.30
130-140	1058.23
140-150	1060.88
150-160	876.34
160-170	577.47
170-180	201.38

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-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	47	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	53	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-L15-827U-L12-827D-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	17.1	18.0	18.1	19.0	20.2	UGR Viewed Endwise	17.0	17.9	18.0	18.9	20.1
	3H	18.9	19.7	19.9	20.6	21.9		18.8	19.6	19.8	20.6	21.8
	4H	19.5	20.2	20.5	21.2	22.5		19.4	20.2	20.4	21.1	22.4
	6H	19.9	20.6	20.9	21.6	22.9		19.9	20.6	20.9	21.6	22.9
	8H	20.1	20.7	21.1	21.7	23.0		20.0	20.7	21.0	21.7	23.0
	12H	20.1	20.8	21.1	21.8	23.1		20.1	20.7	21.1	21.7	23.1

4H	2H	17.7	18.4	18.7	19.4	20.7		17.6	18.3	18.6	19.3	20.6
	3H	19.6	20.2	20.6	21.3	22.6		19.6	20.2	20.6	21.2	22.5
	4H	20.4	20.9	21.4	21.9	23.3		20.3	20.9	21.3	21.9	23.2
	6H	20.9	21.4	21.9	22.4	23.8		20.9	21.4	21.9	22.4	23.8
	8H	21.1	21.6	22.1	22.6	23.9		21.1	21.6	22.1	22.6	23.9
	12H	21.2	21.6	22.3	22.7	24.0		21.2	21.6	22.3	22.7	24.0

8H	4H	20.6	21.1	21.6	22.1	23.4		20.6	21.0	21.6	22.0	23.4
	6H	21.3	21.7	22.3	22.7	24.1		21.3	21.7	22.3	22.7	24.1
	8H	21.6	21.9	22.6	22.9	24.3		21.6	21.9	22.6	23.0	24.3
	12H	21.8	22.0	22.8	23.1	24.5		21.8	22.1	22.9	23.1	24.5

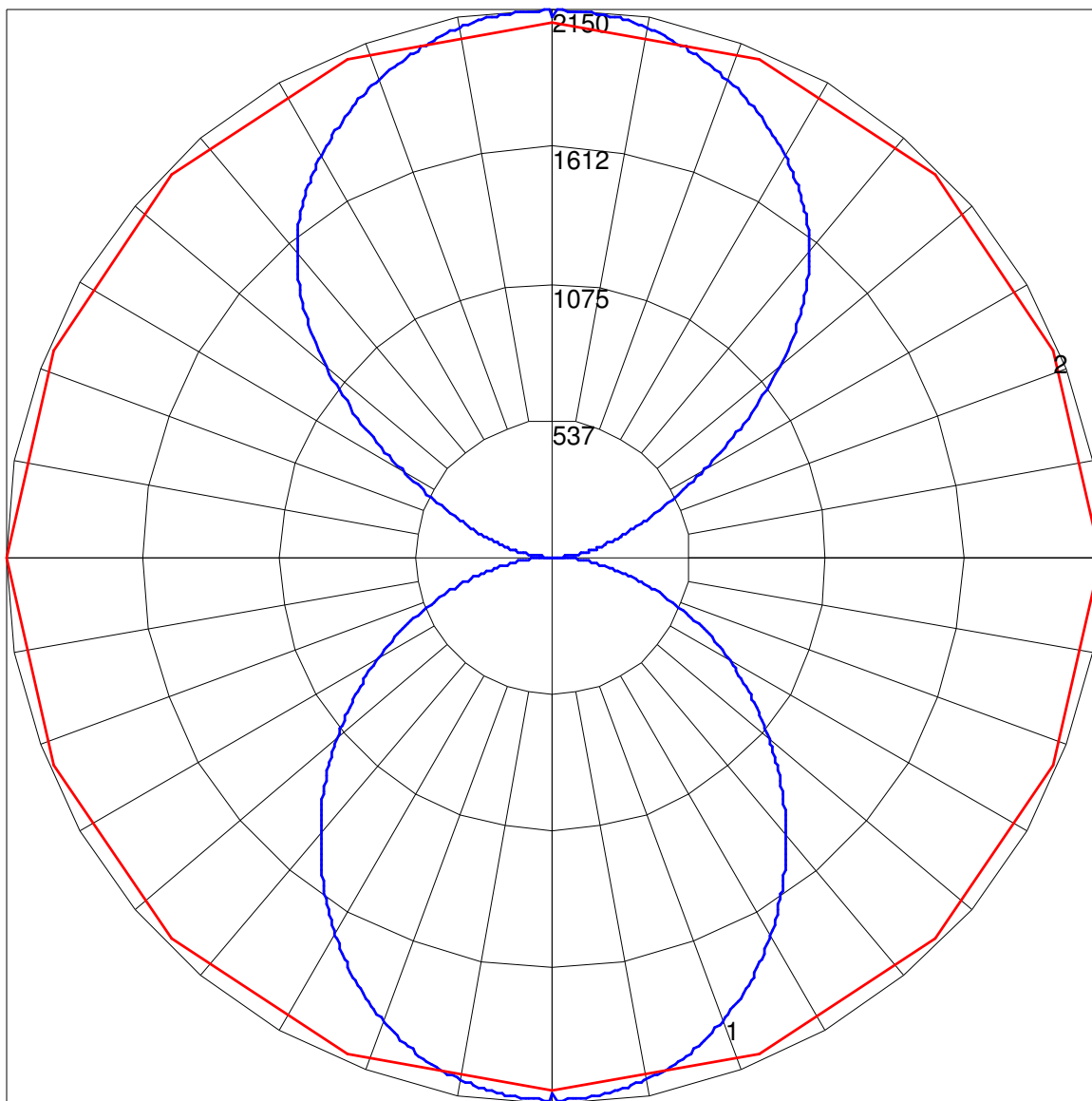
12H	4H	20.6	21.0	21.6	22.1	23.4		20.6	21.0	21.6	22.0	23.4
	6H	21.3	21.7	22.4	22.7	24.1		21.3	21.7	22.4	22.7	24.1
	8H	21.6	21.9	22.7	23.0	24.4		21.7	21.9	22.7	23.0	24.4

Maximum UGR = 24.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-827U-L12-827D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2149.832 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.)