

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-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-L12-850U-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	11668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	15875	15478	15302
55	14593	14240	14090
65	13460	13135	12993
75	11414	11408	11402
85	8915	9273	9541

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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>	2303.535	2303.535	2303.535	2303.535	2303.535
<b>0.5</b>	2338.320	2305.467	2293.872	2298.703	2290.973
<b>1.0</b>	2338.320	2304.501	2293.872	2298.703	2290.973
<b>1.5</b>	2337.353	2303.535	2292.906	2298.703	2290.007
<b>2.0</b>	2336.387	2302.568	2291.940	2297.737	2290.007
<b>2.5</b>	2335.421	2301.602	2290.007	2296.771	2289.041
<b>3.0</b>	2333.488	2299.670	2289.041	2295.805	2287.108
<b>3.5</b>	2331.556	2297.737	2287.108	2293.872	2285.176
<b>4.0</b>	2329.623	2295.805	2285.176	2291.940	2283.243
<b>4.5</b>	2327.691	2292.906	2283.243	2290.007	2280.345
<b>5.0</b>	2325.758	2290.973	2280.345	2287.108	2277.446
<b>5.5</b>	2322.860	2288.075	2277.446	2284.210	2274.547
<b>6.0</b>	2319.961	2284.210	2274.547	2281.311	2270.682
<b>6.5</b>	2316.096	2281.311	2270.682	2277.446	2267.783
<b>7.0</b>	2313.197	2277.446	2267.783	2273.581	2263.919
<b>7.5</b>	2310.298	2273.581	2263.919	2269.716	2261.020
<b>8.0</b>	2305.467	2269.716	2259.087	2265.851	2257.155
<b>8.5</b>	2301.602	2264.885	2254.256	2261.020	2252.324
<b>9.0</b>	2296.771	2261.020	2250.391	2256.189	2247.492
<b>9.5</b>	2291.940	2256.189	2244.594	2250.391	2242.661
<b>10.0</b>	2287.108	2251.357	2239.762	2245.560	2236.864
<b>10.5</b>	2281.311	2245.560	2233.965	2239.762	2232.032
<b>11.0</b>	2276.480	2239.762	2228.167	2233.965	2225.269
<b>11.5</b>	2269.716	2233.965	2222.370	2228.167	2219.471
<b>12.0</b>	2263.919	2228.167	2216.572	2221.404	2212.707
<b>12.5</b>	2258.121	2221.404	2209.809	2214.640	2205.944
<b>13.0</b>	2251.357	2215.606	2203.045	2207.876	2199.180
<b>13.5</b>	2244.594	2207.876	2196.281	2200.146	2192.416
<b>14.0</b>	2237.830	2201.112	2188.551	2193.382	2185.652
<b>14.5</b>	2231.066	2194.349	2180.821	2185.652	2177.922
<b>15.0</b>	2224.302	2186.619	2173.091	2177.922	2170.192
<b>15.5</b>	2215.606	2179.855	2165.361	2169.226	2161.496
<b>16.0</b>	2205.944	2172.125	2156.665	2161.496	2153.766
<b>16.5</b>	2196.281	2163.429	2147.969	2152.800	2145.070
<b>17.0</b>	2187.585	2154.733	2139.273	2144.104	2136.374
<b>17.5</b>	2177.922	2145.070	2129.610	2134.441	2126.711
<b>18.0</b>	2168.260	2135.408	2119.948	2124.779	2117.049
<b>18.5</b>	2158.598	2125.745	2110.285	2114.150	2107.386
<b>19.0</b>	2148.935	2116.083	2101.589	2104.488	2095.791
<b>19.5</b>	2138.306	2106.420	2091.926	2092.893	2084.196
<b>20.0</b>	2128.644	2095.791	2083.230	2082.264	2072.601
<b>20.5</b>	2118.015	2086.129	2073.568	2070.669	2061.006
<b>21.0</b>	2107.386	2075.500	2062.939	2059.074	2048.445
<b>21.5</b>	2095.791	2064.871	2051.344	2047.479	2035.884
<b>22.0</b>	2085.163	2053.276	2038.783	2034.918	2024.289
<b>22.5</b>	2073.568	2041.682	2027.188	2022.357	2011.728
<b>23.0</b>	2061.973	2030.087	2015.593	2008.829	1999.167
<b>23.5</b>	2050.378	2018.492	2003.032	1996.268	1987.572
<b>24.0</b>	2037.817	2006.897	1991.437	1983.707	1975.010
<b>24.5</b>	2025.255	1994.335	1978.875	1971.145	1962.449
<b>25.0</b>	2013.660	1981.774	1966.314	1958.584	1949.888
<b>25.5</b>	2001.099	1969.213	1952.787	1946.023	1936.361
<b>26.0</b>	1987.572	1955.685	1940.226	1933.462	1923.799
<b>26.5</b>	1975.010	1943.124	1926.698	1920.901	1911.238

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27.0	1961.483	1929.597	1913.171	1908.339	1897.711
27.5	1947.955	1916.069	1900.609	1895.778	1885.149
28.0	1934.428	1901.576	1886.116	1882.251	1871.622
28.5	1919.934	1887.082	1872.588	1869.689	1858.094
29.0	1905.441	1873.554	1859.061	1856.162	1844.567
29.5	1891.913	1859.061	1845.533	1841.668	1832.006
30.0	1877.419	1844.567	1832.006	1828.141	1818.478
30.5	1862.926	1830.073	1817.512	1814.613	1804.951
31.0	1847.466	1816.546	1803.018	1800.120	1791.423
31.5	1832.972	1802.052	1788.525	1785.626	1776.930
32.0	1817.512	1786.592	1774.031	1770.166	1762.436
32.5	1802.052	1772.098	1759.537	1755.672	1746.976
33.0	1786.592	1757.605	1745.043	1741.178	1731.516
33.5	1772.098	1742.145	1729.583	1725.719	1717.022
34.0	1755.672	1726.685	1715.090	1710.259	1701.562
34.5	1740.212	1711.225	1698.664	1694.799	1685.136
35.0	1724.752	1696.731	1683.204	1679.339	1668.710
35.5	1708.326	1680.305	1667.744	1663.879	1652.284
36.0	1691.900	1664.845	1652.284	1647.452	1636.824
36.5	1676.440	1649.385	1636.824	1631.992	1621.364
37.0	1660.014	1632.959	1620.397	1615.566	1604.938
37.5	1643.587	1616.533	1604.938	1599.140	1589.478
38.0	1626.195	1600.106	1588.511	1582.714	1573.051
38.5	1609.769	1583.680	1572.085	1567.254	1556.625
39.0	1594.309	1567.254	1555.659	1550.828	1541.165
39.5	1576.916	1550.828	1540.199	1534.401	1523.773
40.0	1560.490	1533.435	1523.773	1517.975	1508.313
40.5	1543.098	1517.009	1507.347	1501.549	1491.887
41.0	1526.671	1499.617	1490.920	1484.157	1474.494
41.5	1509.279	1483.190	1473.528	1467.730	1457.102
42.0	1492.853	1465.798	1457.102	1451.304	1440.675
42.5	1476.427	1449.372	1440.675	1433.912	1424.249
43.0	1459.034	1432.945	1424.249	1417.485	1406.857
43.5	1442.608	1415.553	1406.857	1401.059	1390.431
44.0	1425.215	1398.161	1389.464	1383.667	1374.004
44.5	1407.823	1380.768	1372.072	1366.274	1356.612
45.0	1390.431	1364.342	1355.646	1348.882	1340.186
45.5	1374.004	1346.949	1338.253	1332.456	1323.759
46.0	1356.612	1329.557	1320.861	1315.063	1307.333
46.5	1339.219	1312.164	1304.434	1298.637	1290.907
47.0	1321.827	1294.772	1287.042	1281.245	1273.515
47.5	1303.468	1277.380	1269.650	1263.852	1257.088
48.0	1286.076	1259.987	1252.257	1247.426	1239.696
48.5	1268.683	1242.595	1235.831	1230.033	1222.303
49.0	1250.325	1225.202	1218.438	1212.641	1205.877
49.5	1232.932	1207.810	1201.046	1196.215	1189.451
50.0	1214.573	1190.417	1183.654	1178.822	1172.059
50.5	1196.215	1173.025	1166.261	1161.430	1155.632
51.0	1177.856	1155.632	1148.869	1144.037	1138.240
51.5	1160.464	1138.240	1131.476	1127.611	1120.847
52.0	1143.071	1120.847	1114.084	1110.219	1104.421
52.5	1124.712	1103.455	1096.691	1093.792	1087.029
53.0	1107.320	1086.062	1079.299	1076.400	1069.636
53.5	1088.961	1068.670	1061.906	1059.008	1052.244
54.0	1071.569	1051.278	1045.480	1042.581	1034.851
54.5	1054.176	1034.851	1028.088	1025.189	1017.459

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55.0	1036.784	1018.425	1011.661	1008.763	1001.033
55.5	1020.358	1001.033	994.269	991.370	984.606
56.0	1001.999	983.640	976.876	974.944	967.214
56.5	984.606	967.214	959.967	957.841	950.208
57.0	968.180	949.822	942.865	940.546	933.299
57.5	951.174	933.009	925.859	923.733	916.196
58.0	934.168	916.389	908.756	906.824	899.287
58.5	917.066	899.673	891.943	890.204	883.054
59.0	900.253	882.861	875.034	873.391	866.531
59.5	883.923	865.855	857.835	856.675	850.201
60.0	867.207	848.945	840.829	839.863	833.582
60.5	850.685	832.423	824.403	822.953	816.769
61.0	834.452	815.900	808.073	806.430	800.343
61.5	817.059	799.570	791.840	790.004	784.110
62.0	799.957	782.757	775.027	773.675	767.491
62.5	782.467	767.201	759.181	758.118	751.741
63.0	765.655	753.480	747.006	746.523	741.305
63.5	748.649	738.503	733.382	732.319	726.908
64.0	738.407	723.913	719.275	717.149	710.965
64.5	722.463	708.356	703.332	701.399	695.602
65.0	704.588	691.737	687.582	685.746	680.142
65.5	686.326	674.924	671.156	670.286	664.585
66.0	668.740	658.498	655.116	654.730	648.642
66.5	651.348	641.685	638.786	638.786	633.375
67.0	634.148	624.969	622.650	622.940	618.012
67.5	617.239	608.543	606.417	606.997	602.166
68.0	600.136	592.117	590.184	590.957	585.933
68.5	582.937	575.401	573.855	574.917	569.990
69.0	565.158	558.588	557.428	558.008	553.467
69.5	547.862	542.065	540.712	541.389	537.234
70.0	530.760	525.349	524.383	524.673	521.001
70.5	513.947	508.536	507.860	508.150	504.671
71.0	496.748	491.820	491.627	492.013	488.245
71.5	479.549	475.104	475.490	475.780	472.495
72.0	462.833	458.291	459.064	459.451	456.649
72.5	446.117	441.769	443.025	443.411	441.092
73.0	429.594	425.632	427.371	427.854	425.825
73.5	413.554	409.689	411.718	412.588	410.365
74.0	397.708	393.746	396.258	396.935	395.485
74.5	381.861	378.093	380.895	381.571	380.508
75.0	365.918	362.536	365.725	366.401	365.532
75.5	350.168	346.980	350.651	351.521	350.555
76.0	334.225	332.003	335.771	336.737	335.964
76.5	319.152	317.219	320.988	322.050	321.374
77.0	304.465	302.339	306.494	307.460	306.397
77.5	289.295	287.845	292.000	292.773	291.710
78.0	274.511	273.352	277.506	278.666	277.603
78.5	259.824	259.244	263.206	264.559	263.689
79.0	245.717	245.137	249.195	250.838	250.162
79.5	231.610	231.320	235.378	237.117	236.537
80.0	217.696	217.792	221.561	223.976	223.203
80.5	203.685	204.555	208.420	210.739	210.159
81.0	190.254	191.607	195.375	197.791	197.404
81.5	177.307	178.756	182.621	185.037	184.747
82.0	165.228	166.195	170.156	172.668	172.379
82.5	153.150	154.020	157.885	160.397	160.204

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83.0	141.072	142.425	145.807	148.416	148.609
83.5	129.187	130.830	134.115	136.627	137.207
84.0	118.076	119.428	122.520	124.936	125.806
84.5	106.770	108.220	111.118	113.534	114.404
85.0	96.238	97.398	100.103	102.229	103.002
85.5	85.996	86.576	88.895	91.117	91.890
86.0	75.947	76.140	78.169	80.199	81.165
86.5	65.995	65.995	67.831	69.666	70.536
87.0	55.946	55.946	57.299	59.617	60.294
87.5	45.993	46.090	47.346	49.665	50.535
88.0	36.524	36.428	37.684	40.196	41.162
88.5	27.441	26.862	28.504	30.727	32.079
89.0	17.779	17.489	19.711	21.837	23.287
89.5	8.213	9.759	11.788	13.431	13.914
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.927	3.124	2.884	2.803	3.044
91.0	13.056	6.888	5.607	5.527	5.447
91.5	20.986	14.017	8.330	8.250	8.170
92.0	28.996	23.309	12.015	10.733	10.733
92.5	37.326	32.921	18.583	13.457	13.216
93.0	45.977	42.132	26.272	17.862	16.100
93.5	54.707	50.943	34.522	24.110	20.986
94.0	63.278	59.593	43.654	31.559	27.634
94.5	72.089	68.244	53.185	39.248	34.843
95.0	80.739	77.135	62.557	47.098	41.972
95.5	89.390	85.465	71.688	55.188	49.501
96.0	97.640	93.956	80.659	63.598	57.190
96.5	105.970	102.446	89.630	72.169	65.120
97.0	114.060	110.776	98.521	80.739	73.530
97.5	122.391	119.187	107.492	89.470	81.941
98.0	130.641	127.437	116.223	98.121	90.431
98.5	138.891	135.767	124.633	106.932	98.922
99.0	147.301	144.338	133.204	115.342	107.492
99.5	155.792	152.828	141.855	123.752	115.903
100.0	164.122	161.399	150.505	132.403	124.153
100.5	172.773	169.969	159.156	141.374	132.483
101.0	181.664	178.540	167.967	150.425	141.534
101.5	190.715	187.270	176.938	159.476	150.906
102.0	199.526	196.322	185.909	168.527	160.197
102.5	208.737	205.293	195.200	177.579	169.408
103.0	218.188	214.584	204.412	186.550	178.780
103.5	227.640	224.036	214.184	196.161	188.071
104.0	237.332	233.567	224.116	206.094	197.763
104.5	247.344	243.500	234.048	216.266	207.455
105.0	257.597	253.672	243.900	226.278	217.307
105.5	268.090	264.005	254.073	236.371	227.079
106.0	278.743	274.418	264.405	246.623	236.851
106.5	289.476	285.151	275.219	256.956	246.704
107.0	300.930	296.365	286.753	267.930	257.437
107.5	312.785	307.899	298.447	279.544	269.051
108.0	324.559	319.753	310.382	292.119	280.986
108.5	336.975	331.848	322.317	304.695	293.321
109.0	349.710	344.184	334.572	317.431	305.816
109.5	362.766	356.999	347.468	330.086	318.472
110.0	376.704	370.135	360.684	343.062	331.688
110.5	390.961	383.592	374.220	356.999	345.385

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111.0	405.379	397.689	388.238	371.497	359.162
111.5	420.117	412.187	402.495	386.235	373.339
112.0	435.416	427.086	416.673	400.973	386.876
112.5	450.795	442.384	431.010	415.631	401.214
113.0	466.894	458.164	446.149	430.770	416.192
113.5	483.475	474.664	462.169	447.110	432.292
114.0	500.296	491.485	479.150	464.492	450.154
114.5	517.677	508.866	496.451	482.594	469.137
115.0	535.299	526.728	514.393	500.856	488.361
115.5	553.721	544.750	532.816	519.039	507.344
116.0	572.304	563.493	551.879	538.182	526.648
116.5	591.928	582.717	571.583	557.806	547.233
117.0	612.353	602.341	591.448	578.952	568.459
117.5	627.412	617.640	609.630	598.416	590.006
118.0	646.636	635.502	628.293	618.521	609.150
118.5	668.983	656.808	647.357	637.184	626.371
119.0	690.850	677.794	668.983	658.330	645.514
119.5	712.957	700.142	691.891	679.796	666.981
120.0	735.785	723.290	714.880	703.265	689.649
120.5	758.453	746.759	738.589	728.176	713.838
121.0	782.243	770.708	762.458	753.007	739.550
121.5	805.792	794.418	786.247	778.157	764.701
122.0	830.622	818.607	811.398	803.389	789.932
122.5	854.652	842.637	836.229	828.219	813.801
123.0	879.482	868.268	861.860	855.453	840.234
123.5	905.114	893.900	889.094	882.686	867.467
124.0	930.745	920.332	915.527	909.920	895.502
124.5	956.377	945.964	941.959	936.352	922.735
125.0	982.008	971.596	967.591	962.785	949.168
125.5	1008.441	998.028	994.023	989.217	974.799
126.0	1034.072	1023.660	1021.257	1015.650	1000.431
126.5	1059.704	1049.291	1048.490	1043.684	1027.665
127.0	1086.136	1075.724	1075.724	1071.719	1056.500
127.5	1112.569	1101.355	1101.355	1098.952	1085.335
128.0	1138.201	1126.987	1127.788	1126.186	1112.569
128.5	1163.832	1151.817	1153.419	1153.419	1139.002
129.0	1189.464	1176.648	1179.051	1179.852	1166.235
129.5	1215.095	1202.279	1205.483	1207.085	1194.270
130.0	1240.727	1227.911	1231.916	1234.319	1223.906
130.5	1266.358	1252.741	1259.149	1260.751	1251.940
131.0	1291.990	1277.572	1284.781	1286.383	1277.572
131.5	1316.019	1301.602	1310.412	1310.412	1302.403
132.0	1340.850	1325.631	1335.243	1336.044	1326.432
132.5	1364.879	1350.462	1360.074	1360.875	1350.462
133.0	1388.909	1375.292	1384.103	1385.705	1373.690
133.5	1412.939	1399.322	1408.934	1410.536	1398.521
134.0	1436.968	1422.550	1432.162	1434.565	1422.550
134.5	1458.595	1445.779	1454.590	1456.192	1445.779
135.0	1480.221	1468.207	1476.216	1477.818	1466.605
135.5	1501.047	1491.435	1497.843	1498.644	1487.430
136.0	1521.873	1513.062	1517.868	1520.271	1509.057
136.5	1543.499	1533.887	1537.892	1541.897	1531.484
137.0	1563.524	1554.713	1558.718	1561.922	1552.310
137.5	1583.549	1573.937	1577.942	1580.345	1570.733
138.0	1602.772	1593.160	1596.364	1597.966	1588.354
138.5	1621.996	1611.583	1614.787	1615.588	1605.175

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1640.418	1630.006	1633.210	1633.210	1621.996
139.5	1658.841	1648.428	1650.831	1650.030	1638.016
140.0	1676.463	1665.249	1668.453	1667.652	1655.637
140.5	1693.284	1681.269	1684.473	1683.672	1670.856
141.0	1710.104	1698.089	1700.492	1698.890	1686.075
141.5	1725.323	1713.308	1716.512	1714.109	1699.691
142.0	1741.343	1729.328	1731.731	1728.527	1714.109
142.5	1756.561	1744.547	1746.950	1743.746	1727.726
143.0	1771.780	1758.964	1761.367	1758.163	1742.144
143.5	1786.198	1774.183	1775.785	1772.581	1755.760
144.0	1799.815	1788.601	1789.402	1785.397	1768.576
144.5	1813.431	1802.218	1803.019	1798.213	1781.392
145.0	1826.247	1815.834	1815.834	1810.227	1793.407
145.5	1839.864	1829.451	1828.650	1823.844	1806.223
146.0	1852.680	1842.267	1841.466	1835.859	1819.038
146.5	1865.495	1855.083	1853.481	1848.675	1831.854
147.0	1877.510	1867.898	1864.694	1861.491	1844.670
147.5	1889.525	1879.913	1876.709	1873.505	1856.685
148.0	1901.540	1891.928	1887.122	1884.719	1869.500
148.5	1913.555	1903.943	1897.535	1895.933	1882.316
149.0	1924.768	1915.958	1907.948	1907.147	1895.132
149.5	1935.982	1927.171	1917.560	1918.360	1907.147
150.0	1947.196	1938.385	1927.972	1928.773	1918.360
150.5	1958.410	1949.599	1937.584	1938.385	1929.574
151.0	1968.823	1960.012	1947.196	1947.997	1939.987
151.5	1980.036	1970.425	1957.609	1957.609	1949.599
152.0	1990.449	1980.837	1967.221	1966.420	1959.211
152.5	2000.862	1990.449	1976.832	1976.031	1968.022
153.0	2011.275	2000.061	1986.444	1985.643	1976.031
153.5	2020.887	2009.673	1996.056	1995.255	1983.240
154.0	2030.498	2019.285	2006.469	2004.867	1991.250
154.5	2040.911	2028.096	2016.081	2013.678	1999.260
155.0	2050.523	2036.906	2025.693	2023.290	2008.071
155.5	2059.334	2044.916	2035.304	2032.901	2016.882
156.0	2068.145	2053.727	2045.717	2041.712	2025.693
156.5	2076.956	2062.538	2055.329	2051.324	2034.503
157.0	2085.766	2071.349	2064.941	2060.936	2043.314
157.5	2093.776	2079.359	2073.752	2069.747	2052.125
158.0	2101.786	2087.368	2082.563	2078.558	2060.936
158.5	2110.597	2096.179	2091.373	2087.368	2070.548
159.0	2117.806	2104.189	2099.383	2096.179	2079.359
159.5	2125.816	2112.199	2107.393	2104.990	2088.169
160.0	2133.025	2119.408	2115.403	2113.000	2096.980
160.5	2140.233	2126.617	2122.612	2121.010	2105.791
161.0	2147.442	2133.826	2129.821	2129.020	2114.602
161.5	2154.651	2141.835	2136.229	2137.030	2123.413
162.0	2162.661	2149.044	2142.636	2145.039	2131.423
162.5	2169.870	2156.253	2149.044	2152.248	2138.632
163.0	2177.079	2163.462	2155.452	2159.457	2145.840
163.5	2184.288	2169.870	2161.860	2166.666	2152.248
164.0	2191.497	2176.278	2167.467	2173.074	2158.656
164.5	2197.103	2182.686	2173.074	2179.482	2165.064
165.0	2203.511	2189.094	2178.681	2185.890	2170.671
165.5	2209.919	2194.701	2184.288	2191.497	2176.278
166.0	2216.327	2200.307	2189.895	2197.103	2181.084
166.5	2222.735	2205.914	2195.501	2201.909	2186.691

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2228.342	2210.720	2200.307	2206.715	2191.497
167.5	2233.949	2215.526	2205.914	2211.521	2197.103
168.0	2239.556	2220.332	2210.720	2216.327	2201.909
168.5	2245.163	2225.138	2215.526	2221.133	2207.516
169.0	2249.969	2229.143	2220.332	2225.138	2212.322
169.5	2253.973	2233.148	2224.337	2229.143	2217.128
170.0	2257.978	2237.153	2228.342	2233.148	2222.735
170.5	2261.983	2241.158	2231.546	2237.153	2226.740
171.0	2265.988	2244.362	2234.750	2241.158	2230.745
171.5	2269.192	2247.566	2237.954	2245.163	2234.750
172.0	2272.396	2250.770	2240.357	2248.367	2237.954
172.5	2275.600	2253.973	2242.760	2250.770	2240.357
173.0	2278.804	2257.177	2245.163	2253.973	2241.959
173.5	2281.207	2259.580	2247.566	2255.575	2243.561
174.0	2283.610	2261.983	2249.969	2257.177	2244.362
174.5	2285.212	2263.585	2251.570	2258.779	2245.163
175.0	2286.814	2265.988	2253.172	2259.580	2245.163
175.5	2288.416	2267.590	2255.575	2260.381	2245.964
176.0	2290.018	2269.192	2257.177	2260.381	2245.964
176.5	2290.819	2270.794	2257.978	2261.182	2245.964
177.0	2291.620	2272.396	2259.580	2261.182	2245.163
177.5	2293.222	2273.998	2261.182	2261.182	2245.163
178.0	2294.023	2273.998	2261.983	2261.182	2245.964
178.5	2294.023	2274.799	2262.784	2261.182	2245.964
179.0	2294.824	2275.600	2262.784	2261.182	2245.964
179.5	2295.625	2275.600	2263.585	2261.182	2245.964
180.0	2267.590	2267.590	2267.590	2267.590	2267.590



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	832.51	N.A.	7.10
0-30	1740.5	N.A.	14.90
0-40	2796.13	N.A.	24.00
0-60	4751.26	N.A.	40.70
0-80	5818.45	N.A.	49.90
0-90	5931.21	N.A.	50.80
10-90	5713.91	N.A.	49.00
20-40	1963.62	N.A.	16.80
20-50	3011.55	N.A.	25.80
40-70	2634.59	N.A.	22.60
60-80	1067.19	N.A.	9.10
70-80	387.72	N.A.	3.30
80-90	112.76	N.A.	1.00
90-110	328.16	N.A.	2.80
90-120	842.42	N.A.	7.20
90-130	1706.6	N.A.	14.60
90-150	3969.41	N.A.	34.00
90-180	5736.85	N.A.	49.20
110-180	5408.69	N.A.	46.40
0-180	11668.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	217.30
10-20	615.21
20-30	907.98
30-40	1055.64
40-50	1047.93
50-60	907.19
60-70	679.47
70-80	387.72
80-90	112.76
90-100	70.78
100-110	257.38
110-120	514.25
120-130	864.18
130-140	1129.99
140-150	1132.82
150-160	935.77
160-170	616.63
170-180	215.04

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-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-L12-850U-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	17.4	18.3	18.4	19.3	20.5	17.3	18.2	18.3	19.2	20.4
	3H	19.2	20.0	20.2	21.0	22.2	19.1	19.9	20.1	20.9	22.1
	4H	19.8	20.6	20.8	21.5	22.8	19.7	20.5	20.7	21.5	22.7
	6H	20.2	20.9	21.2	21.9	23.2	20.2	20.9	21.2	21.9	23.2
	8H	20.4	21.0	21.4	22.0	23.3	20.3	21.0	21.3	22.0	23.3
	12H	20.5	21.1	21.5	22.1	23.4	20.4	21.1	21.4	22.1	23.4

### UGR Viewed Endwise

4H	2H	18.0	18.7	18.9	19.7	21.0	17.9	18.6	18.9	19.6	20.9
	3H	19.9	20.6	20.9	21.6	22.9	19.9	20.5	20.9	21.5	22.8
	4H	20.7	21.2	21.7	22.2	23.6	20.6	21.2	21.6	22.2	23.5
	6H	21.2	21.7	22.2	22.7	24.1	21.2	21.7	22.2	22.7	24.0
	8H	21.4	21.9	22.4	22.9	24.2	21.4	21.9	22.4	22.9	24.2
	12H	21.5	21.9	22.5	23.0	24.3	21.5	22.0	22.6	23.0	24.3

8H	4H	20.9	21.4	21.9	22.4	23.7	20.9	21.3	21.9	22.3	23.7
	6H	21.6	22.0	22.6	23.0	24.4	21.6	22.0	22.6	23.0	24.4
	8H	21.9	22.2	22.9	23.2	24.6	21.9	22.2	22.9	23.3	24.6
	12H	22.1	22.4	23.1	23.4	24.8	22.1	22.4	23.1	23.4	24.8

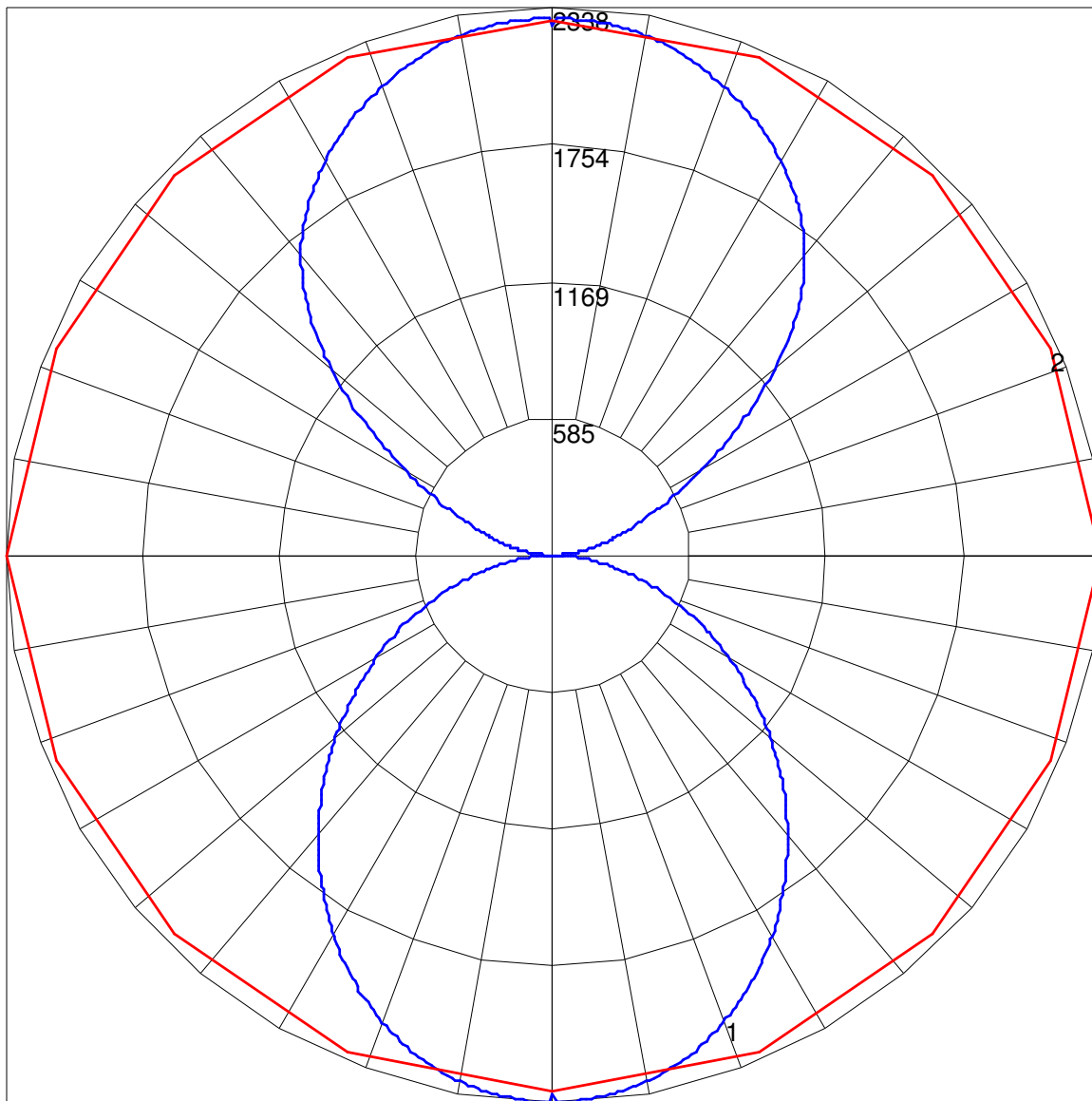
12H	4H	20.9	21.3	21.9	22.4	23.7	20.9	21.3	21.9	22.3	23.7
	6H	21.7	22.0	22.7	23.0	24.4	21.6	22.0	22.7	23.0	24.4
	8H	21.9	22.2	23.0	23.3	24.7	22.0	22.3	23.0	23.3	24.7

Maximum UGR = 24.8

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L12-850U-L15-850D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2338.32 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.)