

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-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-L15-830U-L15-830D-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	12104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	102.3
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	16266	15859	15678
55	14952	14590	14437
65	13791	13458	13312
75	11695	11689	11682
85	9134	9501	9776

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2360.160	2360.160	2360.160	2360.160	2360.160
0.5	2395.800	2362.140	2350.260	2355.210	2347.290
1.0	2395.800	2361.150	2350.260	2355.210	2347.290
1.5	2394.810	2360.160	2349.270	2355.210	2346.300
2.0	2393.820	2359.170	2348.280	2354.220	2346.300
2.5	2392.830	2358.180	2346.300	2353.230	2345.310
3.0	2390.850	2356.200	2345.310	2352.240	2343.330
3.5	2388.870	2354.220	2343.330	2350.260	2341.350
4.0	2386.890	2352.240	2341.350	2348.280	2339.370
4.5	2384.910	2349.270	2339.370	2346.300	2336.400
5.0	2382.930	2347.290	2336.400	2343.330	2333.430
5.5	2379.960	2344.320	2333.430	2340.360	2330.460
6.0	2376.990	2340.360	2330.460	2337.390	2326.500
6.5	2373.030	2337.390	2326.500	2333.430	2323.530
7.0	2370.060	2333.430	2323.530	2329.470	2319.570
7.5	2367.090	2329.470	2319.570	2325.510	2316.600
8.0	2362.140	2325.510	2314.620	2321.550	2312.640
8.5	2358.180	2320.560	2309.670	2316.600	2307.690
9.0	2353.230	2316.600	2305.710	2311.650	2302.740
9.5	2348.280	2311.650	2299.770	2305.710	2297.790
10.0	2343.330	2306.700	2294.820	2300.760	2291.850
10.5	2337.390	2300.760	2288.880	2294.820	2286.900
11.0	2332.440	2294.820	2282.940	2288.880	2279.970
11.5	2325.510	2288.880	2277.000	2282.940	2274.030
12.0	2319.570	2282.940	2271.060	2276.010	2267.100
12.5	2313.630	2276.010	2264.130	2269.080	2260.170
13.0	2306.700	2270.070	2257.200	2262.150	2253.240
13.5	2299.770	2262.150	2250.270	2254.230	2246.310
14.0	2292.840	2255.220	2242.350	2247.300	2239.380
14.5	2285.910	2248.290	2234.430	2239.380	2231.460
15.0	2278.980	2240.370	2226.510	2231.460	2223.540
15.5	2270.070	2233.440	2218.590	2222.550	2214.630
16.0	2260.170	2225.520	2209.680	2214.630	2206.710
16.5	2250.270	2216.610	2200.770	2205.720	2197.800
17.0	2241.360	2207.700	2191.860	2196.810	2188.890
17.5	2231.460	2197.800	2181.960	2186.910	2178.990
18.0	2221.560	2187.900	2172.060	2177.010	2169.090
18.5	2211.660	2178.000	2162.160	2166.120	2159.190
19.0	2201.760	2168.100	2153.250	2156.220	2147.310
19.5	2190.870	2158.200	2143.350	2144.340	2135.430
20.0	2180.970	2147.310	2134.440	2133.450	2123.550
20.5	2170.080	2137.410	2124.540	2121.570	2111.670
21.0	2159.190	2126.520	2113.650	2109.690	2098.800
21.5	2147.310	2115.630	2101.770	2097.810	2085.930
22.0	2136.420	2103.750	2088.900	2084.940	2074.050
22.5	2124.540	2091.870	2077.020	2072.070	2061.180
23.0	2112.660	2079.990	2065.140	2058.210	2048.310
23.5	2100.780	2068.110	2052.270	2045.340	2036.430
24.0	2087.910	2056.230	2040.390	2032.470	2023.560
24.5	2075.040	2043.360	2027.520	2019.600	2010.690
25.0	2063.160	2030.490	2014.650	2006.730	1997.820
25.5	2050.290	2017.620	2000.790	1993.860	1983.960
26.0	2036.430	2003.760	1987.920	1980.990	1971.090
26.5	2023.560	1990.890	1974.060	1968.120	1958.220

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	2009.700	1977.030	1960.200	1955.250	1944.360
27.5	1995.840	1963.170	1947.330	1942.380	1931.490
28.0	1981.980	1948.320	1932.480	1928.520	1917.630
28.5	1967.130	1933.470	1918.620	1915.650	1903.770
29.0	1952.280	1919.610	1904.760	1901.790	1889.910
29.5	1938.420	1904.760	1890.900	1886.940	1877.040
30.0	1923.570	1889.910	1877.040	1873.080	1863.180
30.5	1908.720	1875.060	1862.190	1859.220	1849.320
31.0	1892.880	1861.200	1847.340	1844.370	1835.460
31.5	1878.030	1846.350	1832.490	1829.520	1820.610
32.0	1862.190	1830.510	1817.640	1813.680	1805.760
32.5	1846.350	1815.660	1802.790	1798.830	1789.920
33.0	1830.510	1800.810	1787.940	1783.980	1774.080
33.5	1815.660	1784.970	1772.100	1768.140	1759.230
34.0	1798.830	1769.130	1757.250	1752.300	1743.390
34.5	1782.990	1753.290	1740.420	1736.460	1726.560
35.0	1767.150	1738.440	1724.580	1720.620	1709.730
35.5	1750.320	1721.610	1708.740	1704.780	1692.900
36.0	1733.490	1705.770	1692.900	1687.950	1677.060
36.5	1717.650	1689.930	1677.060	1672.110	1661.220
37.0	1700.820	1673.100	1660.230	1655.280	1644.390
37.5	1683.990	1656.270	1644.390	1638.450	1628.550
38.0	1666.170	1639.440	1627.560	1621.620	1611.720
38.5	1649.340	1622.610	1610.730	1605.780	1594.890
39.0	1633.500	1605.780	1593.900	1588.950	1579.050
39.5	1615.680	1588.950	1578.060	1572.120	1561.230
40.0	1598.850	1571.130	1561.230	1555.290	1545.390
40.5	1581.030	1554.300	1544.400	1538.460	1528.560
41.0	1564.200	1536.480	1527.570	1520.640	1510.740
41.5	1546.380	1519.650	1509.750	1503.810	1492.920
42.0	1529.550	1501.830	1492.920	1486.980	1476.090
42.5	1512.720	1485.000	1476.090	1469.160	1459.260
43.0	1494.900	1468.170	1459.260	1452.330	1441.440
43.5	1478.070	1450.350	1441.440	1435.500	1424.610
44.0	1460.250	1432.530	1423.620	1417.680	1407.780
44.5	1442.430	1414.710	1405.800	1399.860	1389.960
45.0	1424.610	1397.880	1388.970	1382.040	1373.130
45.5	1407.780	1380.060	1371.150	1365.210	1356.300
46.0	1389.960	1362.240	1353.330	1347.390	1339.470
46.5	1372.140	1344.420	1336.500	1330.560	1322.640
47.0	1354.320	1326.600	1318.680	1312.740	1304.820
47.5	1335.510	1308.780	1300.860	1294.920	1287.990
48.0	1317.690	1290.960	1283.040	1278.090	1270.170
48.5	1299.870	1273.140	1266.210	1260.270	1252.350
49.0	1281.060	1255.320	1248.390	1242.450	1235.520
49.5	1263.240	1237.500	1230.570	1225.620	1218.690
50.0	1244.430	1219.680	1212.750	1207.800	1200.870
50.5	1225.620	1201.860	1194.930	1189.980	1184.040
51.0	1206.810	1184.040	1177.110	1172.160	1166.220
51.5	1188.990	1166.220	1159.290	1155.330	1148.400
52.0	1171.170	1148.400	1141.470	1137.510	1131.570
52.5	1152.360	1130.580	1123.650	1120.680	1113.750
53.0	1134.540	1112.760	1105.830	1102.860	1095.930
53.5	1115.730	1094.940	1088.010	1085.040	1078.110
54.0	1097.910	1077.120	1071.180	1068.210	1060.290
54.5	1080.090	1060.290	1053.360	1050.390	1042.470

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55.0	1062.270	1043.460	1036.530	1033.560	1025.640
55.5	1045.440	1025.640	1018.710	1015.740	1008.810
56.0	1026.630	1007.820	1000.890	998.910	990.990
56.5	1008.810	990.990	983.565	981.387	973.566
57.0	991.980	973.170	966.042	963.666	956.241
57.5	974.556	955.944	948.618	946.440	938.718
58.0	957.132	938.916	931.095	929.115	921.393
58.5	939.609	921.789	913.869	912.087	904.761
59.0	922.383	904.563	896.544	894.861	887.832
59.5	905.652	887.139	878.922	877.734	871.101
60.0	888.525	869.814	861.498	860.508	854.073
60.5	871.596	852.885	844.668	843.183	836.847
61.0	854.964	835.956	827.937	826.254	820.017
61.5	837.144	819.225	811.305	809.424	803.385
62.0	819.621	801.999	794.079	792.693	786.357
62.5	801.702	786.060	777.843	776.754	770.220
63.0	784.476	772.002	765.369	764.874	759.528
63.5	767.052	756.657	751.410	750.321	744.777
64.0	756.558	741.708	736.956	734.778	728.442
64.5	740.223	725.769	720.621	718.641	712.701
65.0	721.908	708.741	704.484	702.603	696.861
65.5	703.197	691.515	687.654	686.763	680.922
66.0	685.179	674.685	671.220	670.824	664.587
66.5	667.359	657.459	654.489	654.489	648.945
67.0	649.737	640.332	637.956	638.253	633.204
67.5	632.412	623.502	621.324	621.918	616.968
68.0	614.889	606.672	604.692	605.484	600.336
68.5	597.267	589.545	587.961	589.050	584.001
69.0	579.051	572.319	571.131	571.725	567.072
69.5	561.330	555.390	554.004	554.697	550.440
70.0	543.807	538.263	537.273	537.570	533.808
70.5	526.581	521.037	520.344	520.641	517.077
71.0	508.959	503.910	503.712	504.108	500.247
71.5	491.337	486.783	487.179	487.476	484.110
72.0	474.210	469.557	470.349	470.745	467.874
72.5	457.083	452.628	453.915	454.311	451.935
73.0	440.154	436.095	437.877	438.372	436.293
73.5	423.720	419.760	421.839	422.730	420.453
74.0	407.484	403.425	405.999	406.692	405.207
74.5	391.248	387.387	390.258	390.951	389.862
75.0	374.913	371.448	374.715	375.408	374.517
75.5	358.776	355.509	359.271	360.162	359.172
76.0	342.441	340.164	344.025	345.015	344.223
76.5	326.997	325.017	328.878	329.967	329.274
77.0	311.949	309.771	314.028	315.018	313.929
77.5	296.406	294.921	299.178	299.970	298.881
78.0	281.259	280.071	284.328	285.516	284.427
78.5	266.211	265.617	269.676	271.062	270.171
79.0	251.757	251.163	255.321	257.004	256.311
79.5	237.303	237.006	241.164	242.946	242.352
80.0	223.047	223.146	227.007	229.482	228.690
80.5	208.692	209.583	213.543	215.919	215.325
81.0	194.931	196.317	200.178	202.653	202.257
81.5	181.665	183.150	187.110	189.585	189.288
82.0	169.290	170.280	174.339	176.913	176.616
82.5	156.915	157.806	161.766	164.340	164.142

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83.0	144.540	145.926	149.391	152.064	152.262
83.5	132.363	134.046	137.412	139.986	140.580
84.0	120.978	122.364	125.532	128.007	128.898
84.5	109.395	110.880	113.850	116.325	117.216
85.0	98.604	99.792	102.564	104.742	105.534
85.5	88.110	88.704	91.080	93.357	94.149
86.0	77.814	78.012	80.091	82.170	83.160
86.5	67.617	67.617	69.498	71.379	72.270
87.0	57.321	57.321	58.707	61.083	61.776
87.5	47.124	47.223	48.510	50.886	51.777
88.0	37.422	37.323	38.610	41.184	42.174
88.5	28.116	27.522	29.205	31.482	32.868
89.0	18.216	17.919	20.196	22.374	23.859
89.5	8.415	9.999	12.078	13.761	14.256
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.227	3.282	3.029	2.945	3.198
91.0	13.716	7.237	5.891	5.806	5.722
91.5	22.047	14.726	8.752	8.667	8.583
92.0	30.462	24.488	12.623	11.276	11.276
92.5	39.214	34.586	19.523	14.137	13.885
93.0	48.302	44.263	27.601	18.765	16.914
93.5	57.474	53.519	36.269	25.329	22.047
94.0	66.479	62.608	45.862	33.155	29.032
94.5	75.735	71.696	55.876	41.234	36.605
95.0	84.823	81.036	65.721	49.480	44.095
95.5	93.911	89.788	75.314	57.979	52.005
96.0	102.579	98.708	84.739	66.815	60.083
96.5	111.330	107.628	94.164	75.819	68.414
97.0	119.830	116.379	103.505	84.823	77.250
97.5	128.581	125.215	112.929	93.996	86.085
98.0	137.249	133.883	122.102	103.084	95.005
98.5	145.916	142.634	130.937	112.340	103.925
99.0	154.752	151.638	139.941	121.176	112.929
99.5	163.672	160.558	149.030	130.012	121.765
100.0	172.423	169.562	158.118	139.100	130.433
100.5	181.512	178.566	167.206	148.525	139.184
101.0	190.852	187.570	176.463	158.034	148.693
101.5	200.361	196.743	185.887	167.543	158.539
102.0	209.618	206.252	195.312	177.052	168.300
102.5	219.295	215.676	205.074	186.561	177.977
103.0	229.225	225.438	214.751	195.985	187.823
103.5	239.154	235.368	225.017	206.083	197.584
104.0	249.336	245.381	235.452	216.518	207.766
104.5	259.855	255.816	245.886	227.205	217.949
105.0	270.626	266.503	256.237	237.724	228.299
105.5	281.650	277.358	266.924	248.327	238.565
106.0	292.842	288.298	277.779	259.098	248.832
106.5	304.118	299.574	289.139	269.953	259.182
107.0	316.152	311.355	301.257	281.482	270.458
107.5	328.606	323.473	313.543	293.684	282.660
108.0	340.976	335.927	326.081	306.895	295.198
108.5	354.019	348.633	338.620	320.107	308.157
109.0	367.399	361.593	351.495	333.486	321.285
109.5	381.115	375.057	365.043	346.782	334.580
110.0	395.757	388.857	378.927	360.414	348.465
110.5	410.736	402.994	393.149	375.057	362.855

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111.0	425.883	417.805	407.875	390.288	377.329
111.5	441.367	433.036	422.854	405.771	392.223
112.0	457.439	448.688	437.748	421.255	406.445
112.5	473.596	464.760	452.811	436.654	421.507
113.0	490.510	481.338	468.716	452.559	437.243
113.5	507.929	498.673	485.546	469.725	454.158
114.0	525.601	516.344	503.385	487.986	472.923
114.5	543.861	534.605	521.562	507.004	492.867
115.0	562.374	553.370	540.411	526.190	513.063
115.5	581.729	572.304	559.766	545.292	533.006
116.0	601.252	591.995	579.794	565.404	553.286
116.5	621.869	612.191	600.494	586.021	574.913
117.0	643.327	632.808	621.364	608.236	597.213
117.5	659.147	648.881	640.466	628.685	619.849
118.0	679.343	667.646	660.073	649.806	639.961
118.5	702.821	690.030	680.100	669.413	658.053
119.0	725.794	712.077	702.821	691.629	678.165
119.5	749.019	735.555	726.888	714.181	700.717
120.0	773.002	759.875	751.039	738.837	724.532
120.5	796.816	784.530	775.947	765.008	749.945
121.0	821.809	809.691	801.024	791.094	776.957
121.5	846.549	834.600	826.016	817.517	803.380
122.0	872.636	860.013	852.440	844.025	829.887
122.5	897.881	885.258	878.526	870.111	854.964
123.0	923.967	912.186	905.454	898.722	882.734
123.5	950.895	939.114	934.065	927.333	911.345
124.0	977.823	966.884	961.835	955.944	940.797
124.5	1004.751	993.812	989.604	983.714	969.408
125.0	1031.679	1020.740	1016.532	1011.483	997.178
125.5	1059.449	1048.509	1044.302	1039.253	1024.106
126.0	1086.377	1075.437	1072.913	1067.022	1051.034
126.5	1113.305	1102.365	1101.524	1096.475	1079.645
127.0	1141.074	1130.135	1130.135	1125.927	1109.939
127.5	1168.844	1157.063	1157.063	1154.538	1140.233
128.0	1195.772	1183.991	1184.832	1183.149	1168.844
128.5	1222.700	1210.077	1211.760	1211.760	1196.613
129.0	1249.628	1236.164	1238.688	1239.530	1225.224
129.5	1276.556	1263.092	1266.458	1268.141	1254.677
130.0	1303.484	1290.020	1294.227	1296.752	1285.812
130.5	1330.412	1316.106	1322.838	1324.521	1315.265
131.0	1357.340	1342.193	1349.766	1351.449	1342.193
131.5	1382.585	1367.438	1376.694	1376.694	1368.279
132.0	1408.671	1392.683	1402.781	1403.622	1393.524
132.5	1433.916	1418.769	1428.867	1429.709	1418.769
133.0	1459.161	1444.856	1454.112	1455.795	1443.173
133.5	1484.406	1470.101	1480.199	1481.882	1469.259
134.0	1509.651	1494.504	1504.602	1507.127	1494.504
134.5	1532.372	1518.908	1528.164	1529.847	1518.908
135.0	1555.092	1542.470	1550.885	1552.568	1540.787
135.5	1576.971	1566.873	1573.605	1574.447	1562.666
136.0	1598.850	1589.594	1594.643	1597.167	1585.386
136.5	1621.571	1611.473	1615.680	1619.888	1608.948
137.0	1642.608	1633.352	1637.559	1640.925	1630.827
137.5	1663.646	1653.548	1657.755	1660.280	1650.182
138.0	1683.842	1673.744	1677.110	1678.793	1668.695
138.5	1704.038	1693.098	1696.464	1697.306	1686.366

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1723.392	1712.453	1715.819	1715.819	1704.038
139.5	1742.747	1731.807	1734.332	1733.490	1720.868
140.0	1761.260	1749.479	1752.845	1752.003	1739.381
140.5	1778.931	1766.309	1769.675	1768.833	1755.369
141.0	1796.603	1783.980	1786.505	1784.822	1771.358
141.5	1812.591	1799.969	1803.335	1800.810	1785.663
142.0	1829.421	1816.799	1819.323	1815.957	1800.810
142.5	1845.410	1832.787	1835.312	1831.946	1815.116
143.0	1861.398	1847.934	1850.459	1847.093	1830.263
143.5	1876.545	1863.923	1865.606	1862.240	1844.568
144.0	1890.851	1879.070	1879.911	1875.704	1858.032
144.5	1905.156	1893.375	1894.217	1889.168	1871.496
145.0	1918.620	1907.681	1907.681	1901.790	1884.119
145.5	1932.926	1921.986	1921.145	1916.096	1897.583
146.0	1946.390	1935.450	1934.609	1928.718	1911.047
146.5	1959.854	1948.914	1947.231	1942.182	1924.511
147.0	1972.476	1962.378	1959.012	1955.646	1937.975
147.5	1985.099	1975.001	1971.635	1968.269	1950.597
148.0	1997.721	1987.623	1982.574	1980.050	1964.061
148.5	2010.344	2000.246	1993.514	1991.831	1977.525
149.0	2022.125	2012.868	2004.453	2003.612	1990.989
149.5	2033.906	2024.649	2014.551	2015.393	2003.612
150.0	2045.687	2036.430	2025.491	2026.332	2015.393
150.5	2057.468	2048.211	2035.589	2036.430	2027.174
151.0	2068.407	2059.151	2045.687	2046.528	2038.113
151.5	2080.188	2070.090	2056.626	2056.626	2048.211
152.0	2091.128	2081.030	2066.724	2065.883	2058.309
152.5	2102.067	2091.128	2076.822	2075.981	2067.566
153.0	2113.007	2101.226	2086.920	2086.079	2075.981
153.5	2123.105	2111.324	2097.018	2096.177	2083.554
154.0	2133.203	2121.422	2107.958	2106.275	2091.969
154.5	2144.142	2130.678	2118.056	2115.531	2100.384
155.0	2154.240	2139.935	2128.154	2125.629	2109.641
155.5	2163.497	2148.350	2138.252	2135.727	2118.897
156.0	2172.753	2157.606	2149.191	2144.984	2128.154
156.5	2182.010	2166.863	2159.289	2155.082	2137.410
157.0	2191.266	2176.119	2169.387	2165.180	2146.667
157.5	2199.681	2184.534	2178.644	2174.436	2155.923
158.0	2208.096	2192.949	2187.900	2183.693	2165.180
158.5	2217.353	2202.206	2197.157	2192.949	2175.278
159.0	2224.926	2210.621	2205.572	2202.206	2184.534
159.5	2233.341	2219.036	2213.987	2211.462	2193.791
160.0	2240.915	2226.609	2222.402	2219.877	2203.047
160.5	2248.488	2234.183	2229.975	2228.292	2212.304
161.0	2256.062	2241.756	2237.549	2236.707	2221.560
161.5	2263.635	2250.171	2244.281	2245.122	2230.817
162.0	2272.050	2257.745	2251.013	2253.537	2239.232
162.5	2279.624	2265.318	2257.745	2261.111	2246.805
163.0	2287.197	2272.892	2264.477	2268.684	2254.379
163.5	2294.771	2279.624	2271.209	2276.258	2261.111
164.0	2302.344	2286.356	2277.099	2282.990	2267.843
164.5	2308.235	2293.088	2282.990	2289.722	2274.575
165.0	2314.967	2299.820	2288.880	2296.454	2280.465
165.5	2321.699	2305.710	2294.771	2302.344	2286.356
166.0	2328.431	2311.601	2300.661	2308.235	2291.405
166.5	2335.163	2317.491	2306.552	2313.284	2297.295

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2341.053	2322.540	2311.601	2318.333	2302.344
167.5	2346.944	2327.589	2317.491	2323.382	2308.235
168.0	2352.834	2332.638	2322.540	2328.431	2313.284
168.5	2358.725	2337.687	2327.589	2333.480	2319.174
169.0	2363.774	2341.895	2332.638	2337.687	2324.223
169.5	2367.981	2346.102	2336.846	2341.895	2329.272
170.0	2372.189	2350.310	2341.053	2346.102	2335.163
170.5	2376.396	2354.517	2344.419	2350.310	2339.370
171.0	2380.604	2357.883	2347.785	2354.517	2343.578
171.5	2383.970	2361.249	2351.151	2358.725	2347.785
172.0	2387.336	2364.615	2353.676	2362.091	2351.151
172.5	2390.702	2367.981	2356.200	2364.615	2353.676
173.0	2394.068	2371.347	2358.725	2367.981	2355.359
173.5	2396.592	2373.872	2361.249	2369.664	2357.042
174.0	2399.117	2376.396	2363.774	2371.347	2357.883
174.5	2400.800	2378.079	2365.457	2373.030	2358.725
175.0	2402.483	2380.604	2367.140	2373.872	2358.725
175.5	2404.166	2382.287	2369.664	2374.713	2359.566
176.0	2405.849	2383.970	2371.347	2374.713	2359.566
176.5	2406.690	2385.653	2372.189	2375.555	2359.566
177.0	2407.532	2387.336	2373.872	2375.555	2358.725
177.5	2409.215	2389.019	2375.555	2375.555	2358.725
178.0	2410.056	2389.019	2376.396	2375.555	2359.566
178.5	2410.056	2389.860	2377.238	2375.555	2359.566
179.0	2410.898	2390.702	2377.238	2375.555	2359.566
179.5	2411.739	2390.702	2378.079	2375.555	2359.566
180.0	2382.287	2382.287	2382.287	2382.287	2382.287

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	852.98	N.A.	7.00
0-30	1783.28	N.A.	14.70
0-40	2864.87	N.A.	23.70
0-60	4868.05	N.A.	40.20
0-80	5961.47	N.A.	49.30
0-90	6077.01	N.A.	50.20
10-90	5854.36	N.A.	48.40
20-40	2011.89	N.A.	16.60
20-50	3085.58	N.A.	25.50
40-70	2699.36	N.A.	22.30
60-80	1093.42	N.A.	9.00
70-80	397.25	N.A.	3.30
80-90	115.53	N.A.	1.00
90-110	344.76	N.A.	2.80
90-120	885.03	N.A.	7.30
90-130	1792.92	N.A.	14.80
90-150	4170.19	N.A.	34.50
90-180	6027.02	N.A.	49.80
110-180	5682.26	N.A.	46.90
0-180	12104.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.64
10-20	630.33
20-30	930.30
30-40	1081.58
40-50	1073.69
50-60	929.49
60-70	696.17
70-80	397.25
80-90	115.53
90-100	74.36
100-110	270.40
110-120	540.27
120-130	907.89
130-140	1187.15
140-150	1190.12
150-160	983.10
160-170	647.82
170-180	225.92

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-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	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-L15-830U-L15-830D-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	17.5	18.4	18.5	19.4	20.6	17.4	18.3	18.4	19.3	20.5
	3H	19.3	20.1	20.3	21.0	22.3	19.2	20.0	20.2	21.0	22.2
	4H	19.9	20.6	20.9	21.6	22.9	19.8	20.6	20.8	21.5	22.8
	6H	20.3	21.0	21.3	22.0	23.3	20.3	21.0	21.3	22.0	23.3
	8H	20.5	21.1	21.5	22.1	23.4	20.4	21.1	21.4	22.1	23.4
	12H	20.5	21.2	21.5	22.2	23.5	20.5	21.1	21.5	22.1	23.5

UGR Viewed Endwise

4H	2H	18.1	18.8	19.1	19.8	21.1	18.0	18.7	19.0	19.7	21.0
	3H	20.0	20.6	21.0	21.7	23.0	20.0	20.6	21.0	21.6	22.9
	4H	20.8	21.3	21.8	22.3	23.7	20.7	21.3	21.7	22.3	23.6
	6H	21.3	21.8	22.3	22.8	24.2	21.3	21.8	22.3	22.8	24.2
	8H	21.5	22.0	22.5	23.0	24.3	21.5	22.0	22.5	23.0	24.3
	12H	21.6	22.0	22.7	23.1	24.4	21.6	22.0	22.7	23.1	24.4

8H	4H	21.0	21.5	22.0	22.5	23.8	21.0	21.4	22.0	22.4	23.8
	6H	21.7	22.1	22.7	23.1	24.5	21.7	22.1	22.7	23.1	24.5
	8H	22.0	22.3	23.0	23.3	24.7	22.0	22.3	23.0	23.4	24.7
	12H	22.2	22.4	23.2	23.5	24.9	22.2	22.5	23.3	23.5	24.9

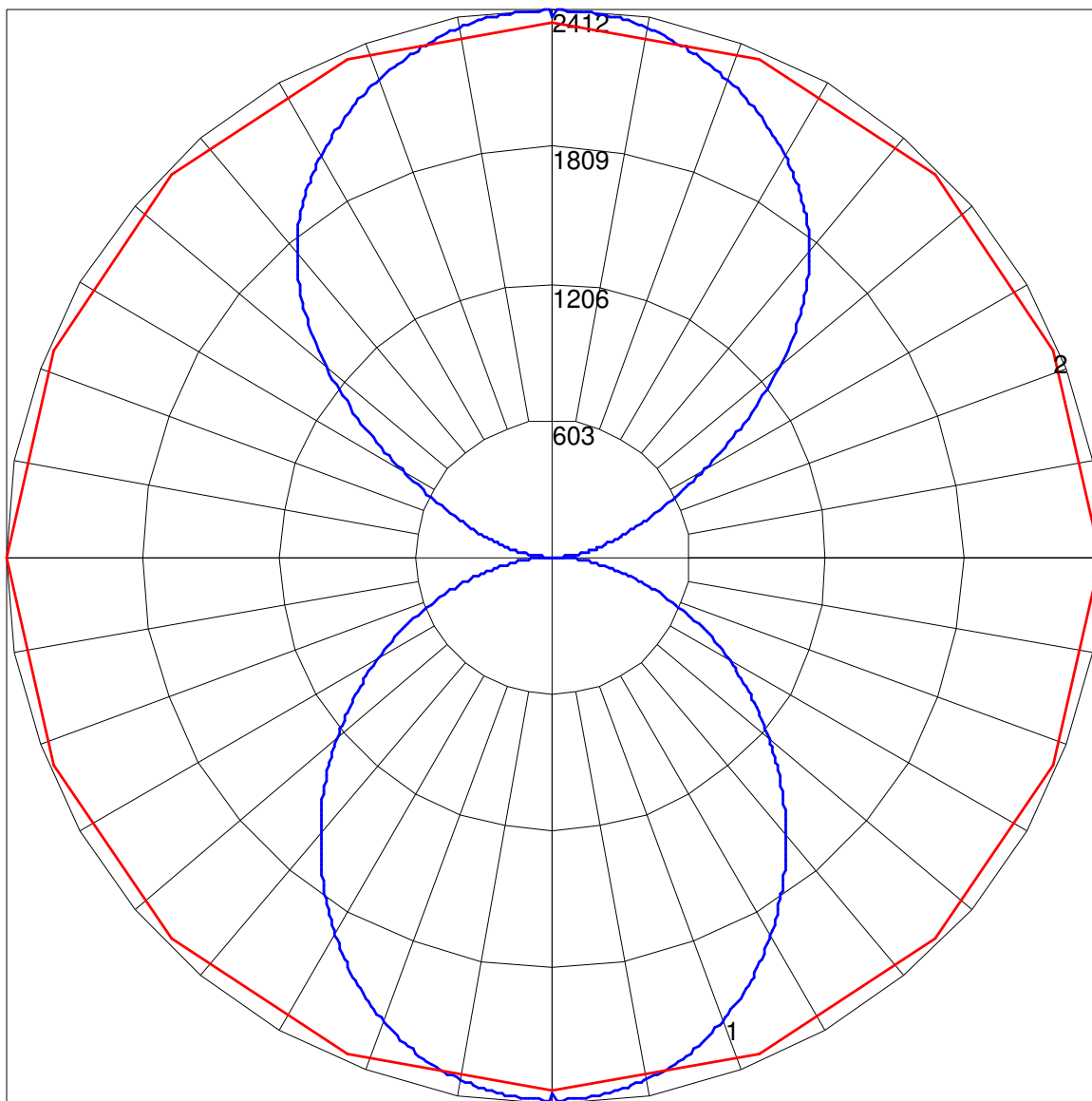
12H	4H	21.0	21.4	22.0	22.5	23.8	21.0	21.4	22.0	22.4	23.8
	6H	21.7	22.1	22.8	23.1	24.5	21.7	22.1	22.8	23.1	24.5
	8H	22.0	22.3	23.1	23.4	24.8	22.1	22.3	23.1	23.4	24.8

Maximum UGR = 24.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-830U-L15-830D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2411.739 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.)