

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L15-940D-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-L15-940U-L15-940D-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	10515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	14130	13776	13619
55	12989	12674	12541
65	11980	11691	11564
75	10159	10154	10148
85	7935	8253	8492

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2050.240	2050.240	2050.240	2050.240	2050.240
0.5	2081.200	2051.960	2041.640	2045.940	2039.060
1.0	2081.200	2051.100	2041.640	2045.940	2039.060
1.5	2080.340	2050.240	2040.780	2045.940	2038.200
2.0	2079.480	2049.380	2039.920	2045.080	2038.200
2.5	2078.620	2048.520	2038.200	2044.220	2037.340
3.0	2076.900	2046.800	2037.340	2043.360	2035.620
3.5	2075.180	2045.080	2035.620	2041.640	2033.900
4.0	2073.460	2043.360	2033.900	2039.920	2032.180
4.5	2071.740	2040.780	2032.180	2038.200	2029.600
5.0	2070.020	2039.060	2029.600	2035.620	2027.020
5.5	2067.440	2036.480	2027.020	2033.040	2024.440
6.0	2064.860	2033.040	2024.440	2030.460	2021.000
6.5	2061.420	2030.460	2021.000	2027.020	2018.420
7.0	2058.840	2027.020	2018.420	2023.580	2014.980
7.5	2056.260	2023.580	2014.980	2020.140	2012.400
8.0	2051.960	2020.140	2010.680	2016.700	2008.960
8.5	2048.520	2015.840	2006.380	2012.400	2004.660
9.0	2044.220	2012.400	2002.940	2008.100	2000.360
9.5	2039.920	2008.100	1997.780	2002.940	1996.060
10.0	2035.620	2003.800	1993.480	1998.640	1990.900
10.5	2030.460	1998.640	1988.320	1993.480	1986.600
11.0	2026.160	1993.480	1983.160	1988.320	1980.580
11.5	2020.140	1988.320	1978.000	1983.160	1975.420
12.0	2014.980	1983.160	1972.840	1977.140	1969.400
12.5	2009.820	1977.140	1966.820	1971.120	1963.380
13.0	2003.800	1971.980	1960.800	1965.100	1957.360
13.5	1997.780	1965.100	1954.780	1958.220	1951.340
14.0	1991.760	1959.080	1947.900	1952.200	1945.320
14.5	1985.740	1953.060	1941.020	1945.320	1938.440
15.0	1979.720	1946.180	1934.140	1938.440	1931.560
15.5	1971.980	1940.160	1927.260	1930.700	1923.820
16.0	1963.380	1933.280	1919.520	1923.820	1916.940
16.5	1954.780	1925.540	1911.780	1916.080	1909.200
17.0	1947.040	1917.800	1904.040	1908.340	1901.460
17.5	1938.440	1909.200	1895.440	1899.740	1892.860
18.0	1929.840	1900.600	1886.840	1891.140	1884.260
18.5	1921.240	1892.000	1878.240	1881.680	1875.660
19.0	1912.640	1883.400	1870.500	1873.080	1865.340
19.5	1903.180	1874.800	1861.900	1862.760	1855.020
20.0	1894.580	1865.340	1854.160	1853.300	1844.700
20.5	1885.120	1856.740	1845.560	1842.980	1834.380
21.0	1875.660	1847.280	1836.100	1832.660	1823.200
21.5	1865.340	1837.820	1825.780	1822.340	1812.020
22.0	1855.880	1827.500	1814.600	1811.160	1801.700
22.5	1845.560	1817.180	1804.280	1799.980	1790.520
23.0	1835.240	1806.860	1793.960	1787.940	1779.340
23.5	1824.920	1796.540	1782.780	1776.760	1769.020
24.0	1813.740	1786.220	1772.460	1765.580	1757.840
24.5	1802.560	1775.040	1761.280	1754.400	1746.660
25.0	1792.240	1763.860	1750.100	1743.220	1735.480
25.5	1781.060	1752.680	1738.060	1732.040	1723.440
26.0	1769.020	1740.640	1726.880	1720.860	1712.260
26.5	1757.840	1729.460	1714.840	1709.680	1701.080

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27.0	1745.800	1717.420	1702.800	1698.500	1689.040
27.5	1733.760	1705.380	1691.620	1687.320	1677.860
28.0	1721.720	1692.480	1678.720	1675.280	1665.820
28.5	1708.820	1679.580	1666.680	1664.100	1653.780
29.0	1695.920	1667.540	1654.640	1652.060	1641.740
29.5	1683.880	1654.640	1642.600	1639.160	1630.560
30.0	1670.980	1641.740	1630.560	1627.120	1618.520
30.5	1658.080	1628.840	1617.660	1615.080	1606.480
31.0	1644.320	1616.800	1604.760	1602.180	1594.440
31.5	1631.420	1603.900	1591.860	1589.280	1581.540
32.0	1617.660	1590.140	1578.960	1575.520	1568.640
32.5	1603.900	1577.240	1566.060	1562.620	1554.880
33.0	1590.140	1564.340	1553.160	1549.720	1541.120
33.5	1577.240	1550.580	1539.400	1535.960	1528.220
34.0	1562.620	1536.820	1526.500	1522.200	1514.460
34.5	1548.860	1523.060	1511.880	1508.440	1499.840
35.0	1535.100	1510.160	1498.120	1494.680	1485.220
35.5	1520.480	1495.540	1484.360	1480.920	1470.600
36.0	1505.860	1481.780	1470.600	1466.300	1456.840
36.5	1492.100	1468.020	1456.840	1452.540	1443.080
37.0	1477.480	1453.400	1442.220	1437.920	1428.460
37.5	1462.860	1438.780	1428.460	1423.300	1414.700
38.0	1447.380	1424.160	1413.840	1408.680	1400.080
38.5	1432.760	1409.540	1399.220	1394.920	1385.460
39.0	1419.000	1394.920	1384.600	1380.300	1371.700
39.5	1403.520	1380.300	1370.840	1365.680	1356.220
40.0	1388.900	1364.820	1356.220	1351.060	1342.460
40.5	1373.420	1350.200	1341.600	1336.440	1327.840
41.0	1358.800	1334.720	1326.980	1320.960	1312.360
41.5	1343.320	1320.100	1311.500	1306.340	1296.880
42.0	1328.700	1304.620	1296.880	1291.720	1282.260
42.5	1314.080	1290.000	1282.260	1276.240	1267.640
43.0	1298.600	1275.380	1267.640	1261.620	1252.160
43.5	1283.980	1259.900	1252.160	1247.000	1237.540
44.0	1268.500	1244.420	1236.680	1231.520	1222.920
44.5	1253.020	1228.940	1221.200	1216.040	1207.440
45.0	1237.540	1214.320	1206.580	1200.560	1192.820
45.5	1222.920	1198.840	1191.100	1185.940	1178.200
46.0	1207.440	1183.360	1175.620	1170.460	1163.580
46.5	1191.960	1167.880	1161.000	1155.840	1148.960
47.0	1176.480	1152.400	1145.520	1140.360	1133.480
47.5	1160.140	1136.920	1130.040	1124.880	1118.860
48.0	1144.660	1121.440	1114.560	1110.260	1103.380
48.5	1129.180	1105.960	1099.940	1094.780	1087.900
49.0	1112.840	1090.480	1084.460	1079.300	1073.280
49.5	1097.360	1075.000	1068.980	1064.680	1058.660
50.0	1081.020	1059.520	1053.500	1049.200	1043.180
50.5	1064.680	1044.040	1038.020	1033.720	1028.560
51.0	1048.340	1028.560	1022.540	1018.240	1013.080
51.5	1032.860	1013.080	1007.060	1003.620	997.600
52.0	1017.380	997.600	991.580	988.140	982.980
52.5	1001.040	982.120	976.100	973.520	967.500
53.0	985.560	966.640	960.620	958.040	952.020
53.5	969.220	951.160	945.140	942.560	936.540
54.0	953.740	935.680	930.520	927.940	921.060
54.5	938.260	921.060	915.040	912.460	905.580

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55.0	922.780	906.440	900.420	897.840	890.960
55.5	908.160	890.960	884.940	882.360	876.340
56.0	891.820	875.480	869.460	867.740	860.860
56.5	876.340	860.860	854.410	852.518	845.724
57.0	861.720	845.380	839.188	837.124	830.674
57.5	846.584	830.416	824.052	822.160	815.452
58.0	831.448	815.624	808.830	807.110	800.402
58.5	816.226	800.746	793.866	792.318	785.954
59.0	801.262	785.782	778.816	777.354	771.248
59.5	786.728	770.646	763.508	762.476	756.714
60.0	771.850	755.596	748.372	747.512	741.922
60.5	757.144	740.890	733.752	732.462	726.958
61.0	742.696	726.184	719.218	717.756	712.338
61.5	727.216	711.650	704.770	703.136	697.890
62.0	711.994	696.686	689.806	688.602	683.098
62.5	696.428	682.840	675.702	674.756	669.080
63.0	681.464	670.628	664.866	664.436	659.792
63.5	666.328	657.298	652.740	651.794	646.978
64.0	657.212	644.312	640.184	638.292	632.788
64.5	643.022	630.466	625.994	624.274	619.114
65.0	627.112	615.674	611.976	610.342	605.354
65.5	610.858	600.710	597.356	596.582	591.508
66.0	595.206	586.090	583.080	582.736	577.318
66.5	579.726	571.126	568.546	568.546	563.730
67.0	564.418	556.248	554.184	554.442	550.056
67.5	549.368	541.628	539.736	540.252	535.952
68.0	534.146	527.008	525.288	525.976	521.504
68.5	518.838	512.130	510.754	511.700	507.314
69.0	503.014	497.166	496.134	496.650	492.608
69.5	487.620	482.460	481.256	481.858	478.160
70.0	472.398	467.582	466.722	466.980	463.712
70.5	457.434	452.618	452.016	452.274	449.178
71.0	442.126	437.740	437.568	437.912	434.558
71.5	426.818	422.862	423.206	423.464	420.540
72.0	411.940	407.898	408.586	408.930	406.436
72.5	397.062	393.192	394.310	394.654	392.590
73.0	382.356	378.830	380.378	380.808	379.002
73.5	368.080	364.640	366.446	367.220	365.242
74.0	353.976	350.450	352.686	353.288	351.998
74.5	339.872	336.518	339.012	339.614	338.668
75.0	325.682	322.672	325.510	326.112	325.338
75.5	311.664	308.826	312.094	312.868	312.008
76.0	297.474	295.496	298.850	299.710	299.022
76.5	284.058	282.338	285.692	286.638	286.036
77.0	270.986	269.094	272.792	273.652	272.706
77.5	257.484	256.194	259.892	260.580	259.634
78.0	244.326	243.294	246.992	248.024	247.078
78.5	231.254	230.738	234.264	235.468	234.694
79.0	218.698	218.182	221.794	223.256	222.654
79.5	206.142	205.884	209.496	211.044	210.528
80.0	193.758	193.844	197.198	199.348	198.660
80.5	181.288	182.062	185.502	187.566	187.050
81.0	169.334	170.538	173.892	176.042	175.698
81.5	157.810	159.100	162.540	164.690	164.432
82.0	147.060	147.920	151.446	153.682	153.424
82.5	136.310	137.084	140.524	142.760	142.588

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83.0	125.560	126.764	129.774	132.096	132.268
83.5	114.982	116.444	119.368	121.604	122.120
84.0	105.092	106.296	109.048	111.198	111.972
84.5	95.030	96.320	98.900	101.050	101.824
85.0	85.656	86.688	89.096	90.988	91.676
85.5	76.540	77.056	79.120	81.098	81.786
86.0	67.596	67.768	69.574	71.380	72.240
86.5	58.738	58.738	60.372	62.006	62.780
87.0	49.794	49.794	50.998	53.062	53.664
87.5	40.936	41.022	42.140	44.204	44.978
88.0	32.508	32.422	33.540	35.776	36.636
88.5	24.424	23.908	25.370	27.348	28.552
89.0	15.824	15.566	17.544	19.436	20.726
89.5	7.310	8.686	10.492	11.954	12.384
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.409	2.851	2.632	2.559	2.778
91.0	11.915	6.287	5.117	5.044	4.971
91.5	19.152	12.793	7.602	7.529	7.456
92.0	26.462	21.272	10.965	9.795	9.795
92.5	34.065	30.044	16.959	12.281	12.062
93.0	41.959	38.451	23.977	16.301	14.693
93.5	49.927	46.492	31.506	22.003	19.152
94.0	57.749	54.386	39.840	28.801	25.220
94.5	65.790	62.281	48.538	35.819	31.799
95.0	73.685	70.395	57.091	42.983	38.304
95.5	81.580	77.998	65.425	50.366	45.176
96.0	89.109	85.746	73.612	58.041	52.193
96.5	96.711	93.495	81.799	65.863	59.430
97.0	104.094	101.097	89.913	73.685	67.106
97.5	111.697	108.773	98.100	81.653	74.781
98.0	119.226	116.302	106.068	89.548	82.530
98.5	126.755	123.905	113.744	97.589	90.279
99.0	134.431	131.726	121.565	105.264	98.100
99.5	142.180	139.475	129.460	112.940	105.776
100.0	149.782	147.297	137.355	120.834	113.305
100.5	157.677	155.118	145.250	129.022	120.907
101.0	165.791	162.940	153.291	137.282	129.168
101.5	174.051	170.908	161.478	145.542	137.720
102.0	182.092	179.168	169.665	153.802	146.200
102.5	190.499	187.355	178.145	162.063	154.607
103.0	199.124	195.835	186.551	170.250	163.159
103.5	207.750	204.461	195.469	179.022	171.639
104.0	216.595	213.160	204.534	188.086	180.484
104.5	225.733	222.224	213.598	197.370	189.329
105.0	235.090	231.508	222.590	206.508	198.320
105.5	244.666	240.938	231.873	215.718	207.239
106.0	254.388	250.441	241.303	225.075	216.157
106.5	264.183	260.236	251.172	234.505	225.148
107.0	274.637	270.470	261.698	244.520	234.943
107.5	285.456	280.996	272.371	255.119	245.543
108.0	296.201	291.815	283.263	266.596	256.435
108.5	307.532	302.853	294.154	278.072	267.692
109.0	319.155	314.111	305.339	289.695	279.096
109.5	331.070	325.807	317.108	301.245	290.646
110.0	343.789	337.795	329.169	313.087	302.707
110.5	356.801	350.076	341.523	325.807	315.207

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111.0	369.959	362.942	354.316	339.038	327.780
111.5	383.410	376.173	367.328	352.488	340.719
112.0	397.372	389.769	380.266	365.939	353.073
112.5	411.407	403.731	393.351	379.316	366.158
113.0	426.100	418.132	407.167	393.132	379.828
113.5	441.232	433.191	421.787	408.044	394.521
114.0	456.583	448.542	437.284	423.907	410.822
114.5	472.445	464.404	453.074	440.428	428.147
115.0	488.527	480.706	469.448	457.094	445.691
115.5	505.340	497.153	486.261	473.688	463.015
116.0	522.300	514.259	503.659	491.159	480.633
116.5	540.209	531.803	521.642	509.068	499.419
117.0	558.850	549.712	539.770	528.367	518.791
117.5	572.592	563.674	556.364	546.130	538.455
118.0	590.136	579.975	573.396	564.478	555.926
118.5	610.531	599.420	590.794	581.511	571.642
119.0	630.488	618.572	610.531	600.809	589.113
119.5	650.663	638.967	631.438	620.400	608.704
120.0	671.497	660.093	652.418	641.818	629.391
120.5	692.184	681.511	674.055	664.552	651.467
121.0	713.895	703.368	695.839	687.213	674.932
121.5	735.386	725.006	717.550	710.167	697.886
122.0	758.047	747.082	740.503	733.193	720.912
122.5	779.977	769.012	763.164	755.854	742.696
123.0	802.638	792.404	786.556	780.708	766.819
123.5	826.030	815.796	811.410	805.562	791.673
124.0	849.422	839.919	835.533	830.416	817.258
124.5	872.814	863.311	859.656	854.539	842.112
125.0	896.206	886.703	883.048	878.662	866.235
125.5	920.329	910.826	907.171	902.785	889.627
126.0	943.721	934.218	932.025	926.908	913.019
126.5	967.113	957.610	956.879	952.493	937.873
127.0	991.236	981.733	981.733	978.078	964.189
127.5	1015.359	1005.125	1005.125	1002.932	990.505
128.0	1038.751	1028.517	1029.248	1027.786	1015.359
128.5	1062.143	1051.178	1052.640	1052.640	1039.482
129.0	1085.535	1073.839	1076.032	1076.763	1064.336
129.5	1108.927	1097.231	1100.155	1101.617	1089.921
130.0	1132.319	1120.623	1124.278	1126.471	1116.968
130.5	1155.711	1143.284	1149.132	1150.594	1142.553
131.0	1179.103	1165.945	1172.524	1173.986	1165.945
131.5	1201.033	1187.875	1195.916	1195.916	1188.606
132.0	1223.694	1209.805	1218.577	1219.308	1210.536
132.5	1245.624	1232.466	1241.238	1241.969	1232.466
133.0	1267.554	1255.127	1263.168	1264.630	1253.665
133.5	1289.484	1277.057	1285.829	1287.291	1276.326
134.0	1311.414	1298.256	1307.028	1309.221	1298.256
134.5	1331.151	1319.455	1327.496	1328.958	1319.455
135.0	1350.888	1339.923	1347.233	1348.695	1338.461
135.5	1369.894	1361.122	1366.970	1367.701	1357.467
136.0	1388.900	1380.859	1385.245	1387.438	1377.204
136.5	1408.637	1399.865	1403.520	1407.175	1397.672
137.0	1426.912	1418.871	1422.526	1425.450	1416.678
137.5	1445.187	1436.415	1440.070	1442.263	1433.491
138.0	1462.731	1453.959	1456.883	1458.345	1449.573
138.5	1480.275	1470.772	1473.696	1474.427	1464.924

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L15-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1497.088	1487.585	1490.509	1490.509	1480.275
139.5	1513.901	1504.398	1506.591	1505.860	1494.895
140.0	1529.983	1519.749	1522.673	1521.942	1510.977
140.5	1545.334	1534.369	1537.293	1536.562	1524.866
141.0	1560.685	1549.720	1551.913	1550.451	1538.755
141.5	1574.574	1563.609	1566.533	1564.340	1551.182
142.0	1589.194	1578.229	1580.422	1577.498	1564.340
142.5	1603.083	1592.118	1594.311	1591.387	1576.767
143.0	1616.972	1605.276	1607.469	1604.545	1589.925
143.5	1630.130	1619.165	1620.627	1617.703	1602.352
144.0	1642.557	1632.323	1633.054	1629.399	1614.048
144.5	1654.984	1644.750	1645.481	1641.095	1625.744
145.0	1666.680	1657.177	1657.177	1652.060	1636.709
145.5	1679.107	1669.604	1668.873	1664.487	1648.405
146.0	1690.803	1681.300	1680.569	1675.452	1660.101
146.5	1702.499	1692.996	1691.534	1687.148	1671.797
147.0	1713.464	1704.692	1701.768	1698.844	1683.493
147.5	1724.429	1715.657	1712.733	1709.809	1694.458
148.0	1735.394	1726.622	1722.236	1720.043	1706.154
148.5	1746.359	1737.587	1731.739	1730.277	1717.850
149.0	1756.593	1748.552	1741.242	1740.511	1729.546
149.5	1766.827	1758.786	1750.014	1750.745	1740.511
150.0	1777.061	1769.020	1759.517	1760.248	1750.745
150.5	1787.295	1779.254	1768.289	1769.020	1760.979
151.0	1796.798	1788.757	1777.061	1777.792	1770.482
151.5	1807.032	1798.260	1786.564	1786.564	1779.254
152.0	1816.535	1807.763	1795.336	1794.605	1788.026
152.5	1826.038	1816.535	1804.108	1803.377	1796.067
153.0	1835.541	1825.307	1812.880	1812.149	1803.377
153.5	1844.313	1834.079	1821.652	1820.921	1809.956
154.0	1853.085	1842.851	1831.155	1829.693	1817.266
154.5	1862.588	1850.892	1839.927	1837.734	1824.576
155.0	1871.360	1858.933	1848.699	1846.506	1832.617
155.5	1879.401	1866.243	1857.471	1855.278	1840.658
156.0	1887.442	1874.284	1866.974	1863.319	1848.699
156.5	1895.483	1882.325	1875.746	1872.091	1856.740
157.0	1903.524	1890.366	1884.518	1880.863	1864.781
157.5	1910.834	1897.676	1892.559	1888.904	1872.822
158.0	1918.144	1904.986	1900.600	1896.945	1880.863
158.5	1926.185	1913.027	1908.641	1904.986	1889.635
159.0	1932.764	1920.337	1915.951	1913.027	1897.676
159.5	1940.074	1927.647	1923.261	1921.068	1905.717
160.0	1946.653	1934.226	1930.571	1928.378	1913.758
160.5	1953.232	1940.805	1937.150	1935.688	1921.799
161.0	1959.811	1947.384	1943.729	1942.998	1929.840
161.5	1966.390	1954.694	1949.577	1950.308	1937.881
162.0	1973.700	1961.273	1955.425	1957.618	1945.191
162.5	1980.279	1967.852	1961.273	1964.197	1951.770
163.0	1986.858	1974.431	1967.121	1970.776	1958.349
163.5	1993.437	1980.279	1972.969	1977.355	1964.197
164.0	2000.016	1986.127	1978.086	1983.203	1970.045
164.5	2005.133	1991.975	1983.203	1989.051	1975.893
165.0	2010.981	1997.823	1988.320	1994.899	1981.010
165.5	2016.829	2002.940	1993.437	2000.016	1986.127
166.0	2022.677	2008.057	1998.554	2005.133	1990.513
166.5	2028.525	2013.174	2003.671	2009.519	1995.630

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L15-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2033.642	2017.560	2008.057	2013.905	2000.016
167.5	2038.759	2021.946	2013.174	2018.291	2005.133
168.0	2043.876	2026.332	2017.560	2022.677	2009.519
168.5	2048.993	2030.718	2021.946	2027.063	2014.636
169.0	2053.379	2034.373	2026.332	2030.718	2019.022
169.5	2057.034	2038.028	2029.987	2034.373	2023.408
170.0	2060.689	2041.683	2033.642	2038.028	2028.525
170.5	2064.344	2045.338	2036.566	2041.683	2032.180
171.0	2067.999	2048.262	2039.490	2045.338	2035.835
171.5	2070.923	2051.186	2042.414	2048.993	2039.490
172.0	2073.847	2054.110	2044.607	2051.917	2042.414
172.5	2076.771	2057.034	2046.800	2054.110	2044.607
173.0	2079.695	2059.958	2048.993	2057.034	2046.069
173.5	2081.888	2062.151	2051.186	2058.496	2047.531
174.0	2084.081	2064.344	2053.379	2059.958	2048.262
174.5	2085.543	2065.806	2054.841	2061.420	2048.993
175.0	2087.005	2067.999	2056.303	2062.151	2048.993
175.5	2088.467	2069.461	2058.496	2062.882	2049.724
176.0	2089.929	2070.923	2059.958	2062.882	2049.724
176.5	2090.660	2072.385	2060.689	2063.613	2049.724
177.0	2091.391	2073.847	2062.151	2063.613	2048.993
177.5	2092.853	2075.309	2063.613	2063.613	2048.993
178.0	2093.584	2075.309	2064.344	2063.613	2049.724
178.5	2093.584	2076.040	2065.075	2063.613	2049.724
179.0	2094.315	2076.771	2065.075	2063.613	2049.724
179.5	2095.046	2076.771	2065.806	2063.613	2049.724
180.0	2069.461	2069.461	2069.461	2069.461	2069.461

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L15-940D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	740.97	N.A.	7.00
0-30	1549.11	N.A.	14.70
0-40	2488.67	N.A.	23.70
0-60	4228.81	N.A.	40.20
0-80	5178.65	N.A.	49.30
0-90	5279.02	N.A.	50.20
10-90	5085.61	N.A.	48.40
20-40	1747.7	N.A.	16.60
20-50	2680.4	N.A.	25.50
40-70	2344.9	N.A.	22.30
60-80	949.84	N.A.	9.00
70-80	345.09	N.A.	3.30
80-90	100.36	N.A.	1.00
90-110	299.49	N.A.	2.80
90-120	768.81	N.A.	7.30
90-130	1557.48	N.A.	14.80
90-150	3622.59	N.A.	34.50
90-180	5235.6	N.A.	49.80
110-180	4936.11	N.A.	46.90
0-180	10514.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.41
10-20	547.56
20-30	808.14
30-40	939.56
40-50	932.70
50-60	807.44
60-70	604.76
70-80	345.09
80-90	100.36
90-100	64.60
100-110	234.89
110-120	469.32
120-130	788.67
130-140	1031.26
140-150	1033.84
150-160	854.00
160-170	562.75
170-180	196.25

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-940U-L15-940D-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-L15-940U-L15-940D-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	17.0	17.9	18.0	18.9	20.1	16.9	17.8	17.9	18.8	20.0
	3H	18.8	19.6	19.8	20.5	21.8	18.7	19.5	19.7	20.5	21.7
	4H	19.4	20.1	20.4	21.1	22.4	19.3	20.1	20.3	21.0	22.3
	6H	19.8	20.5	20.8	21.5	22.8	19.8	20.5	20.8	21.5	22.8
	8H	20.0	20.6	21.0	21.6	22.9	19.9	20.6	20.9	21.6	22.9
	12H	20.0	20.7	21.0	21.7	23.0	20.0	20.6	21.0	21.6	23.0

UGR Viewed Endwise

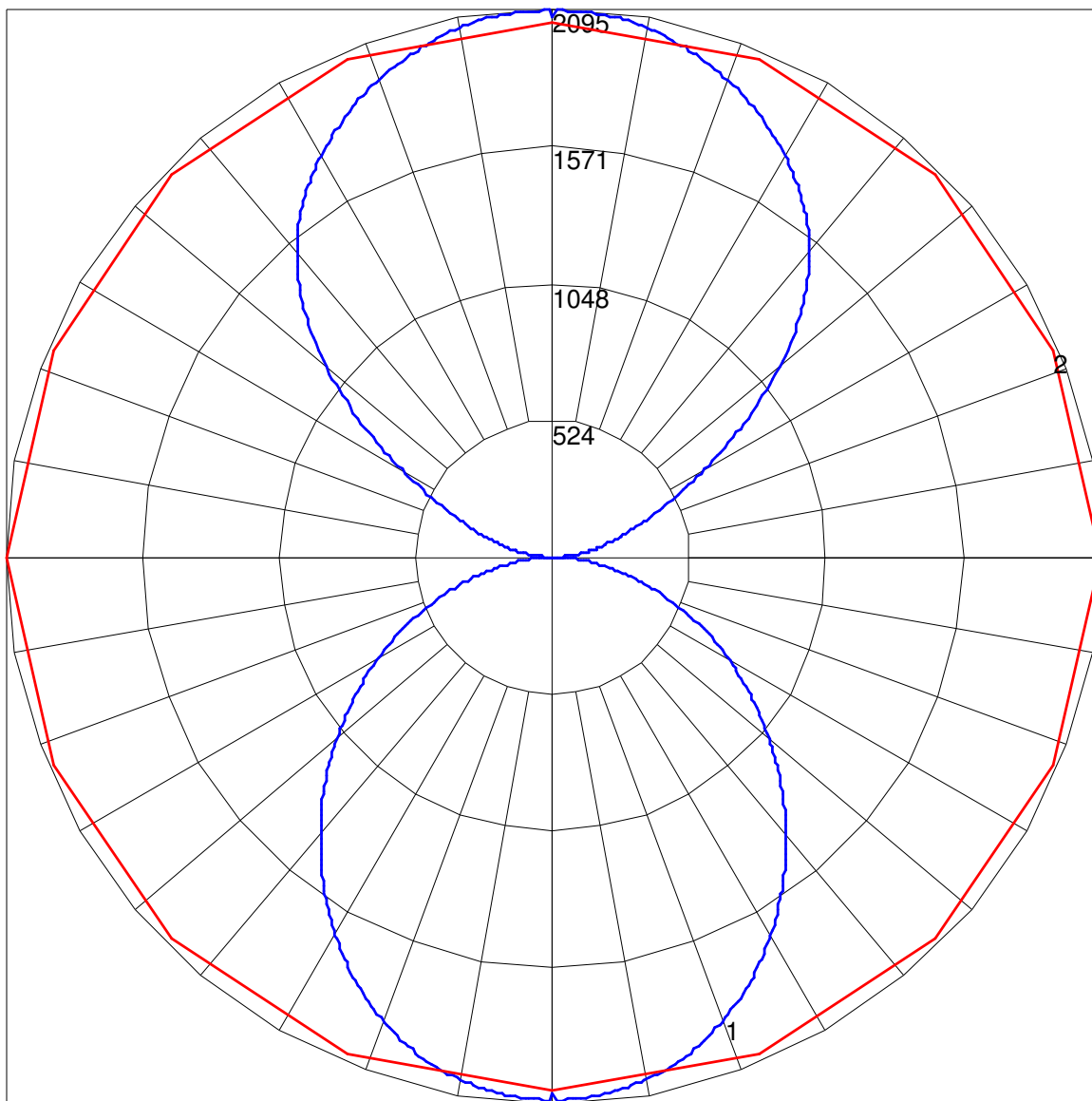
4H	2H	17.6	18.3	18.6	19.3	20.6	17.5	18.2	18.5	19.2	20.5
	3H	19.5	20.1	20.5	21.2	22.5	19.5	20.1	20.5	21.1	22.4
	4H	20.3	20.8	21.3	21.8	23.2	20.2	20.8	21.2	21.8	23.1
	6H	20.8	21.3	21.8	22.3	23.7	20.8	21.3	21.8	22.3	23.7
	8H	21.0	21.5	22.0	22.5	23.8	21.0	21.5	22.0	22.5	23.8
	12H	21.1	21.5	22.2	22.6	23.9	21.1	21.5	22.2	22.6	23.9

8H	4H	20.5	21.0	21.5	22.0	23.3	20.5	20.9	21.5	21.9	23.3
	6H	21.2	21.6	22.2	22.6	24.0	21.2	21.6	22.2	22.6	24.0
	8H	21.5	21.8	22.5	22.8	24.2	21.5	21.8	22.5	22.9	24.2
	12H	21.7	21.9	22.7	23.0	24.4	21.7	22.0	22.8	23.0	24.4

12H	4H	20.5	20.9	21.5	22.0	23.3	20.5	20.9	21.5	21.9	23.3
	6H	21.2	21.6	22.3	22.6	24.0	21.2	21.6	22.3	22.6	24.0
	8H	21.5	21.8	22.6	22.9	24.3	21.6	21.8	22.6	22.9	24.3

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 2095.046 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.)