

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-850U-L12-850D-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-L15-850U-L12-850D-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	11791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	15844	15448	15272
55	14565	14212	14063
65	13434	13110	12968
75	11392	11386	11380
85	8897	9255	9523

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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	2299.057	2299.057	2299.057	2299.057	2299.057
0.5	2333.774	2300.985	2289.413	2294.235	2286.520
1.0	2333.774	2300.021	2289.413	2294.235	2286.520
1.5	2332.810	2299.057	2288.449	2294.235	2285.556
2.0	2331.845	2298.092	2287.484	2293.270	2285.556
2.5	2330.881	2297.128	2285.556	2292.306	2284.591
3.0	2328.952	2295.199	2284.591	2291.342	2282.662
3.5	2327.023	2293.270	2282.662	2289.413	2280.734
4.0	2325.095	2291.342	2280.734	2287.484	2278.805
4.5	2323.166	2288.449	2278.805	2285.556	2275.912
5.0	2321.237	2286.520	2275.912	2282.662	2273.019
5.5	2318.344	2283.627	2273.019	2279.769	2270.126
6.0	2315.451	2279.769	2270.126	2276.876	2266.268
6.5	2311.593	2276.876	2266.268	2273.019	2263.375
7.0	2308.700	2273.019	2263.375	2269.161	2259.518
7.5	2305.807	2269.161	2259.518	2265.304	2256.624
8.0	2300.985	2265.304	2254.696	2261.446	2252.767
8.5	2297.128	2260.482	2249.874	2256.624	2247.945
9.0	2292.306	2256.624	2246.016	2251.803	2243.123
9.5	2287.484	2251.803	2240.230	2246.016	2238.301
10.0	2282.662	2246.981	2235.408	2241.195	2232.515
10.5	2276.876	2241.195	2229.622	2235.408	2227.693
11.0	2272.054	2235.408	2223.836	2229.622	2220.943
11.5	2265.304	2229.622	2218.050	2223.836	2215.157
12.0	2259.518	2223.836	2212.263	2217.085	2208.406
12.5	2253.731	2217.085	2205.513	2210.335	2201.655
13.0	2246.981	2211.299	2198.762	2203.584	2194.905
13.5	2240.230	2203.584	2192.012	2195.869	2188.154
14.0	2233.480	2196.834	2184.297	2189.119	2181.404
14.5	2226.729	2190.083	2176.582	2181.404	2173.689
15.0	2219.978	2182.368	2168.867	2173.689	2165.974
15.5	2211.299	2175.617	2161.152	2165.009	2157.294
16.0	2201.655	2167.902	2152.473	2157.294	2149.579
16.5	2192.012	2159.223	2143.793	2148.615	2140.900
17.0	2183.332	2150.544	2135.114	2139.936	2132.221
17.5	2173.689	2140.900	2125.470	2130.292	2122.577
18.0	2164.045	2131.256	2115.826	2120.648	2112.933
18.5	2154.401	2121.613	2106.183	2110.040	2103.290
19.0	2144.758	2111.969	2097.503	2100.397	2091.717
19.5	2134.150	2102.325	2087.860	2088.824	2080.145
20.0	2124.506	2091.717	2079.180	2078.216	2068.572
20.5	2113.898	2082.074	2069.537	2066.644	2057.000
21.0	2103.290	2071.466	2058.929	2055.071	2044.463
21.5	2091.717	2060.857	2047.356	2043.499	2031.926
22.0	2081.109	2049.285	2034.819	2030.962	2020.354
22.5	2069.537	2037.713	2023.247	2018.425	2007.817
23.0	2057.964	2026.140	2011.675	2004.924	1995.280
23.5	2046.392	2014.568	1999.138	1992.387	1983.708
24.0	2033.855	2002.995	1987.565	1979.850	1971.171
24.5	2021.318	1990.458	1975.029	1967.314	1958.634
25.0	2009.746	1977.922	1962.492	1954.777	1946.097
25.5	1997.209	1965.385	1948.991	1942.240	1932.596
26.0	1983.708	1951.884	1936.454	1929.703	1920.060
26.5	1971.171	1939.347	1922.953	1917.166	1907.523

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27.0	1957.670	1925.846	1909.451	1904.630	1894.022
27.5	1944.169	1912.345	1896.915	1892.093	1881.485
28.0	1930.668	1897.879	1882.449	1878.592	1867.984
28.5	1916.202	1883.413	1868.948	1866.055	1854.482
29.0	1901.736	1869.912	1855.447	1852.554	1840.981
29.5	1888.235	1855.447	1841.946	1838.088	1828.444
30.0	1873.770	1840.981	1828.444	1824.587	1814.943
30.5	1859.304	1826.516	1813.979	1811.086	1801.442
31.0	1843.874	1813.015	1799.513	1796.620	1787.941
31.5	1829.409	1798.549	1785.048	1782.155	1773.475
32.0	1813.979	1783.119	1770.582	1766.725	1759.010
32.5	1798.549	1768.654	1756.117	1752.259	1743.580
33.0	1783.119	1754.188	1741.651	1737.794	1728.150
33.5	1768.654	1738.758	1726.221	1722.364	1713.684
34.0	1752.259	1723.328	1711.756	1706.934	1698.255
34.5	1736.829	1707.898	1695.361	1691.504	1681.860
35.0	1721.399	1693.433	1679.932	1676.074	1665.466
35.5	1705.005	1677.038	1664.502	1660.644	1649.072
36.0	1688.611	1661.609	1649.072	1644.250	1633.642
36.5	1673.181	1646.179	1633.642	1628.820	1618.212
37.0	1656.787	1629.784	1617.248	1612.426	1601.818
37.5	1640.392	1613.390	1601.818	1596.031	1586.388
38.0	1623.034	1596.996	1585.423	1579.637	1569.993
38.5	1606.639	1580.601	1569.029	1564.207	1553.599
39.0	1591.210	1564.207	1552.635	1547.813	1538.169
39.5	1573.851	1547.813	1537.205	1531.419	1520.811
40.0	1557.457	1530.454	1520.811	1515.024	1505.381
40.5	1540.098	1514.060	1504.416	1498.630	1488.986
41.0	1523.704	1496.701	1488.022	1481.271	1471.628
41.5	1506.345	1480.307	1470.663	1464.877	1454.269
42.0	1489.951	1462.948	1454.269	1448.483	1437.875
42.5	1473.556	1446.554	1437.875	1431.124	1421.481
43.0	1456.198	1430.160	1421.481	1414.730	1404.122
43.5	1439.804	1412.801	1404.122	1398.336	1387.728
44.0	1422.445	1395.443	1386.763	1380.977	1371.333
44.5	1405.086	1378.084	1369.405	1363.618	1353.975
45.0	1387.728	1361.690	1353.010	1346.260	1337.580
45.5	1371.333	1344.331	1335.652	1329.865	1321.186
46.0	1353.975	1326.972	1318.293	1312.507	1304.792
46.5	1336.616	1309.614	1301.899	1296.112	1288.398
47.0	1319.257	1292.255	1284.540	1278.754	1271.039
47.5	1300.934	1274.896	1267.181	1261.395	1254.645
48.0	1283.576	1257.538	1249.823	1245.001	1237.286
48.5	1266.217	1240.179	1233.428	1227.642	1219.927
49.0	1247.894	1222.820	1216.070	1210.284	1203.533
49.5	1230.535	1205.462	1198.711	1193.889	1187.139
50.0	1212.212	1188.103	1181.353	1176.531	1169.780
50.5	1193.889	1170.744	1163.994	1159.172	1153.386
51.0	1175.566	1153.386	1146.635	1141.813	1136.027
51.5	1158.208	1136.027	1129.277	1125.419	1118.669
52.0	1140.849	1118.669	1111.918	1108.060	1102.274
52.5	1122.526	1101.310	1094.559	1091.666	1084.916
53.0	1105.167	1083.951	1077.201	1074.308	1067.557
53.5	1086.844	1066.593	1059.842	1056.949	1050.198
54.0	1069.486	1049.234	1043.448	1040.555	1032.840
54.5	1052.127	1032.840	1026.089	1023.196	1015.481

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55.0	1034.768	1016.445	1009.695	1006.802	999.087
55.5	1018.374	999.087	992.336	989.443	982.692
56.0	1000.051	981.728	974.977	973.049	965.334
56.5	982.692	965.334	958.101	955.979	948.361
57.0	966.298	947.975	941.032	938.717	931.484
57.5	949.325	931.195	924.059	921.937	914.415
58.0	932.352	914.608	906.989	905.061	897.539
58.5	915.283	897.924	890.209	888.474	881.337
59.0	898.503	881.144	873.333	871.694	864.846
59.5	882.205	864.171	856.167	855.010	848.549
60.0	865.522	847.295	839.194	838.230	831.961
60.5	849.031	830.804	822.800	821.353	815.181
61.0	832.829	814.314	806.502	804.863	798.787
61.5	815.471	798.016	790.301	788.468	782.586
62.0	798.401	781.236	773.521	772.171	765.999
62.5	780.946	765.709	757.705	756.644	750.279
63.0	764.166	752.015	745.554	745.072	739.864
63.5	747.193	737.068	731.956	730.896	725.495
64.0	736.971	722.506	717.877	715.755	709.583
64.5	721.059	706.979	701.964	700.036	694.250
65.0	703.218	690.392	686.245	684.413	678.820
65.5	684.992	673.612	669.851	668.983	663.293
66.0	667.440	657.218	653.842	653.457	647.381
66.5	650.081	640.438	637.545	637.545	632.144
67.0	632.916	623.754	621.440	621.729	616.811
67.5	616.039	607.360	605.238	605.817	600.995
68.0	598.970	590.966	589.037	589.808	584.794
68.5	581.804	574.282	572.739	573.800	568.882
69.0	564.060	557.502	556.345	556.923	552.391
69.5	546.797	541.011	539.661	540.336	536.189
70.0	529.728	524.328	523.363	523.653	519.988
70.5	512.948	507.548	506.873	507.162	503.690
71.0	495.782	490.864	490.671	491.057	487.296
71.5	478.617	474.180	474.566	474.856	471.577
72.0	461.933	457.400	458.172	458.558	455.761
72.5	445.249	440.910	442.163	442.549	440.235
73.0	428.759	424.805	426.541	427.023	424.998
73.5	412.750	408.893	410.918	411.786	409.568
74.0	396.934	392.981	395.488	396.163	394.716
74.5	381.119	377.358	380.154	380.829	379.769
75.0	365.207	361.831	365.014	365.689	364.821
75.5	349.487	346.305	349.970	350.838	349.873
76.0	333.575	331.357	335.118	336.083	335.311
76.5	318.531	316.602	320.364	321.424	320.749
77.0	303.873	301.751	305.898	306.862	305.802
77.5	288.732	287.286	291.432	292.204	291.143
78.0	273.977	272.820	276.967	278.124	277.063
78.5	259.319	258.740	262.694	264.044	263.176
79.0	245.239	244.661	248.711	250.350	249.675
79.5	231.159	230.870	234.920	236.656	236.078
80.0	217.272	217.369	221.130	223.541	222.769
80.5	203.289	204.157	208.014	210.329	209.750
81.0	189.884	191.234	194.995	197.406	197.021
81.5	176.962	178.408	182.266	184.677	184.387
82.0	164.907	165.872	169.825	172.333	172.044
82.5	152.853	153.720	157.578	160.085	159.892

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83.0	140.798	142.148	145.523	148.127	148.320
83.5	128.936	130.576	133.854	136.362	136.940
84.0	117.846	119.196	122.282	124.693	125.561
84.5	106.563	108.009	110.902	113.313	114.181
85.0	96.051	97.208	99.909	102.030	102.802
85.5	85.829	86.407	88.722	90.940	91.712
86.0	75.799	75.992	78.017	80.043	81.007
86.5	65.866	65.866	67.699	69.531	70.399
87.0	55.837	55.837	57.187	59.502	60.177
87.5	45.904	46.000	47.254	49.569	50.437
88.0	36.453	36.357	37.610	40.118	41.082
88.5	27.388	26.809	28.449	30.667	32.017
89.0	17.744	17.455	19.673	21.795	23.241
89.5	8.197	9.740	11.765	13.405	13.887
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.066	3.197	2.951	2.869	3.115
91.0	13.361	7.050	5.738	5.656	5.574
91.5	21.477	14.345	8.525	8.443	8.361
92.0	29.674	23.854	12.296	10.984	10.984
92.5	38.199	33.690	19.017	13.771	13.525
93.0	47.052	43.117	26.887	18.280	16.476
93.5	55.986	52.134	35.330	24.673	21.477
94.0	64.757	60.987	44.674	32.297	28.280
94.5	73.774	69.840	54.429	40.166	35.658
95.0	82.627	78.938	64.020	48.199	42.953
95.5	91.480	87.463	73.364	56.478	50.658
96.0	99.923	96.152	82.545	65.085	58.528
96.5	108.448	104.841	91.726	73.856	66.643
97.0	116.727	113.366	100.825	82.627	75.250
97.5	125.252	121.973	110.006	91.562	83.857
98.0	133.695	130.416	118.941	100.415	92.546
98.5	142.138	138.942	127.547	109.432	101.235
99.0	150.745	147.712	136.318	118.039	110.006
99.5	159.434	156.401	145.171	126.646	118.613
100.0	167.959	165.172	154.024	135.499	127.056
100.5	176.812	173.943	162.877	144.680	135.581
101.0	185.911	182.714	171.894	153.942	144.843
101.5	195.174	191.649	181.075	163.205	154.434
102.0	204.191	200.912	190.256	172.468	163.943
102.5	213.617	210.093	199.764	181.731	173.370
103.0	223.290	219.601	209.191	190.911	182.960
103.5	232.963	229.274	219.192	200.748	192.469
104.0	242.881	239.029	229.356	210.912	202.387
104.5	253.128	249.193	239.520	221.323	212.306
105.0	263.620	259.603	249.603	231.569	222.388
105.5	274.358	270.178	260.013	241.898	232.389
106.0	285.260	280.834	270.588	252.390	242.389
106.5	296.245	291.818	281.654	262.964	252.472
107.0	307.967	303.294	293.458	274.194	263.456
107.5	320.098	315.098	305.425	286.080	275.342
108.0	332.148	327.230	317.639	298.950	287.556
108.5	344.854	339.608	329.853	311.819	300.179
109.0	357.887	352.231	342.395	324.853	312.967
109.5	371.248	365.347	355.592	337.804	325.918
110.0	385.511	378.790	369.117	351.084	339.444
110.5	400.102	392.561	382.970	365.347	353.461

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111.0	414.857	406.988	397.315	380.183	367.560
111.5	429.940	421.825	411.906	395.266	382.069
112.0	445.597	437.072	426.415	410.349	395.922
112.5	461.335	452.728	441.088	425.350	410.595
113.0	477.811	468.876	456.581	440.842	425.923
113.5	494.779	485.763	472.975	457.564	442.400
114.0	511.993	502.977	490.353	475.352	460.679
114.5	529.781	520.764	508.059	493.878	480.106
115.0	547.815	539.044	526.420	512.567	499.780
115.5	566.668	557.487	545.274	531.175	519.207
116.0	585.686	576.669	564.783	550.766	538.962
116.5	605.769	596.342	584.948	570.849	560.029
117.0	626.671	616.425	605.277	592.489	581.751
117.5	642.082	632.081	623.884	612.408	603.801
118.0	661.755	650.361	642.984	632.983	623.392
118.5	684.625	672.165	662.493	652.082	641.016
119.0	707.003	693.642	684.625	673.723	660.608
119.5	729.627	716.512	708.069	695.691	682.576
120.0	752.989	740.202	731.595	719.709	705.774
120.5	776.187	764.219	755.858	745.202	730.529
121.0	800.533	788.729	780.286	770.613	756.842
121.5	824.632	812.992	804.631	796.352	782.581
122.0	850.043	837.748	830.370	822.173	808.402
122.5	874.635	862.339	855.781	847.584	832.829
123.0	900.046	888.570	882.012	875.455	859.880
123.5	926.277	914.801	909.883	903.325	887.750
124.0	952.508	941.851	936.933	931.195	916.440
124.5	978.739	968.082	963.984	958.246	944.311
125.0	1004.969	994.313	990.215	985.296	971.361
125.5	1032.020	1021.364	1017.265	1012.347	997.592
126.0	1058.251	1047.594	1045.135	1039.397	1023.823
126.5	1084.482	1073.825	1073.006	1068.087	1051.693
127.0	1111.532	1100.876	1100.876	1096.777	1081.203
127.5	1138.583	1127.107	1127.107	1124.648	1110.712
128.0	1164.814	1153.338	1154.157	1152.518	1138.583
128.5	1191.044	1178.749	1180.388	1180.388	1165.633
129.0	1217.275	1204.160	1206.619	1207.439	1193.504
129.5	1243.506	1230.391	1233.670	1235.309	1222.194
130.0	1269.737	1256.622	1260.720	1263.179	1252.523
130.5	1295.968	1282.033	1288.590	1290.230	1281.213
131.0	1322.199	1307.444	1314.821	1316.461	1307.444
131.5	1346.790	1332.035	1341.052	1341.052	1332.855
132.0	1372.201	1356.627	1366.463	1367.283	1357.446
132.5	1396.793	1382.038	1391.874	1392.694	1382.038
133.0	1421.384	1407.449	1416.466	1418.105	1405.810
133.5	1445.976	1432.040	1441.877	1443.516	1431.221
134.0	1470.567	1455.812	1465.649	1468.108	1455.812
134.5	1492.699	1479.584	1488.601	1490.240	1479.584
135.0	1514.831	1502.536	1510.733	1512.372	1500.896
135.5	1536.144	1526.307	1532.865	1533.685	1522.209
136.0	1557.457	1548.440	1553.358	1555.817	1544.341
136.5	1579.589	1569.752	1573.851	1577.949	1567.293
137.0	1600.082	1591.065	1595.163	1598.442	1588.606
137.5	1620.575	1610.738	1614.837	1617.296	1607.459
138.0	1640.248	1630.411	1633.690	1635.329	1625.493
138.5	1659.921	1649.265	1652.543	1653.363	1642.707

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

139.0	1678.774	1668.118	1671.397	1671.397	1659.921
139.5	1697.628	1686.971	1689.431	1688.611	1676.315
140.0	1715.661	1704.185	1707.464	1706.645	1694.349
140.5	1732.875	1720.580	1723.859	1723.039	1709.923
141.0	1750.089	1737.794	1740.253	1738.613	1725.498
141.5	1765.664	1753.368	1756.647	1754.188	1739.433
142.0	1782.058	1769.763	1772.222	1768.943	1754.188
142.5	1797.633	1785.337	1787.796	1784.517	1768.123
143.0	1813.207	1800.092	1802.551	1799.272	1782.878
143.5	1827.962	1815.667	1817.306	1814.027	1796.813
144.0	1841.897	1830.421	1831.241	1827.143	1809.929
144.5	1855.833	1844.357	1845.176	1840.258	1823.044
145.0	1868.948	1858.292	1858.292	1852.554	1835.340
145.5	1882.883	1872.227	1871.407	1866.489	1848.455
146.0	1895.998	1885.342	1884.522	1878.784	1861.571
146.5	1909.114	1898.458	1896.818	1891.900	1874.686
147.0	1921.410	1911.573	1908.294	1905.015	1887.801
147.5	1933.705	1923.869	1920.590	1917.311	1900.097
148.0	1946.001	1936.164	1931.246	1928.787	1913.212
148.5	1958.297	1948.460	1941.902	1940.263	1926.328
149.0	1969.773	1960.756	1952.559	1951.739	1939.443
149.5	1981.249	1972.232	1962.395	1963.215	1951.739
150.0	1992.725	1983.708	1973.052	1973.871	1963.215
150.5	2004.201	1995.184	1982.888	1983.708	1974.691
151.0	2014.857	2005.840	1992.725	1993.544	1985.347
151.5	2026.333	2016.496	2003.381	2003.381	1995.184
152.0	2036.989	2027.153	2013.218	2012.398	2005.020
152.5	2047.646	2036.989	2023.054	2022.234	2014.037
153.0	2058.302	2046.826	2032.891	2032.071	2022.234
153.5	2068.138	2056.662	2042.727	2041.908	2029.612
154.0	2077.975	2066.499	2053.384	2051.744	2037.809
154.5	2088.631	2075.516	2063.220	2060.761	2046.006
155.0	2098.468	2084.533	2073.057	2070.598	2055.023
155.5	2107.485	2092.730	2082.893	2080.434	2064.040
156.0	2116.502	2101.747	2093.550	2089.451	2073.057
156.5	2125.518	2110.764	2103.386	2099.288	2082.074
157.0	2134.535	2119.780	2113.223	2109.124	2091.090
157.5	2142.732	2127.978	2122.240	2118.141	2100.107
158.0	2150.930	2136.175	2131.256	2127.158	2109.124
158.5	2159.946	2145.192	2140.273	2136.175	2118.961
159.0	2167.324	2153.389	2148.470	2145.192	2127.978
159.5	2175.521	2161.586	2156.668	2154.208	2136.994
160.0	2182.898	2168.963	2164.865	2162.406	2146.011
160.5	2190.276	2176.341	2172.242	2170.603	2155.028
161.0	2197.653	2183.718	2179.620	2178.800	2164.045
161.5	2205.031	2191.915	2186.177	2186.997	2173.062
162.0	2213.228	2199.293	2192.735	2195.194	2181.259
162.5	2220.605	2206.670	2199.293	2202.572	2188.636
163.0	2227.983	2214.048	2205.850	2209.949	2196.014
163.5	2235.360	2220.605	2212.408	2217.326	2202.572
164.0	2242.738	2227.163	2218.146	2223.884	2209.129
164.5	2248.476	2233.721	2223.884	2230.442	2215.687
165.0	2255.033	2240.278	2229.622	2237.000	2221.425
165.5	2261.591	2246.016	2235.360	2242.738	2227.163
166.0	2268.149	2251.754	2241.098	2248.476	2232.081
166.5	2274.706	2257.492	2246.836	2253.394	2237.819

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

167.0	2280.444	2262.411	2251.754	2258.312	2242.738
167.5	2286.182	2267.329	2257.492	2263.230	2248.476
168.0	2291.920	2272.247	2262.411	2268.149	2253.394
168.5	2297.658	2277.166	2267.329	2273.067	2259.132
169.0	2302.577	2281.264	2272.247	2277.166	2264.050
169.5	2306.675	2285.363	2276.346	2281.264	2268.968
170.0	2310.774	2289.461	2280.444	2285.363	2274.706
170.5	2314.872	2293.560	2283.723	2289.461	2278.805
171.0	2318.971	2296.839	2287.002	2293.560	2282.904
171.5	2322.250	2300.117	2290.281	2297.658	2287.002
172.0	2325.529	2303.396	2292.740	2300.937	2290.281
172.5	2328.807	2306.675	2295.199	2303.396	2292.740
173.0	2332.086	2309.954	2297.658	2306.675	2294.379
173.5	2334.545	2312.413	2300.117	2308.315	2296.019
174.0	2337.005	2314.872	2302.577	2309.954	2296.839
174.5	2338.644	2316.512	2304.216	2311.593	2297.658
175.0	2340.283	2318.971	2305.855	2312.413	2297.658
175.5	2341.923	2320.610	2308.315	2313.233	2298.478
176.0	2343.562	2322.250	2309.954	2313.233	2298.478
176.5	2344.382	2323.889	2310.774	2314.053	2298.478
177.0	2345.202	2325.529	2312.413	2314.053	2297.658
177.5	2346.841	2327.168	2314.053	2314.053	2297.658
178.0	2347.661	2327.168	2314.872	2314.053	2298.478
178.5	2347.661	2327.988	2315.692	2314.053	2298.478
179.0	2348.481	2328.807	2315.692	2314.053	2298.478
179.5	2349.300	2328.807	2316.512	2314.053	2298.478
180.0	2320.610	2320.610	2320.610	2320.610	2320.610



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

Zone	Lumens	%Lamp	%Fixt
0-20	830.89	N.A.	7.00
0-30	1737.11	N.A.	14.70
0-40	2790.7	N.A.	23.70
0-60	4742.02	N.A.	40.20
0-80	5807.13	N.A.	49.30
0-90	5919.68	N.A.	50.20
10-90	5702.8	N.A.	48.40
20-40	1959.8	N.A.	16.60
20-50	3005.7	N.A.	25.50
40-70	2629.47	N.A.	22.30
60-80	1065.11	N.A.	9.00
70-80	386.97	N.A.	3.30
80-90	112.54	N.A.	1.00
90-110	335.83	N.A.	2.80
90-120	862.11	N.A.	7.30
90-130	1746.5	N.A.	14.80
90-150	4062.22	N.A.	34.50
90-180	5870.99	N.A.	49.80
110-180	5535.15	N.A.	46.90
0-180	11790.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.88
10-20	614.01
20-30	906.22
30-40	1053.58
40-50	1045.89
50-60	905.43
60-70	678.15
70-80	386.97
80-90	112.54
90-100	72.43
100-110	263.40
110-120	526.28
120-130	884.39
130-140	1156.42
140-150	1159.31
150-160	957.65
160-170	631.05
170-180	220.07

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-850U-L12-850D-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	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-L15-850U-L12-850D-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	20.9	22.2	19.1	19.9	20.1	20.9	22.1
	4H	19.8	20.5	20.8	21.5	22.8	19.7	20.5	20.7	21.4	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	20.4	21.1	21.4	22.1	23.4	20.4	21.0	21.4	22.0	23.4

### UGR Viewed Endwise

4H	2H	18.0	18.7	19.0	19.7	21.0	17.9	18.6	18.9	19.6	20.9
	3H	19.9	20.5	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	24.1
	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	22.6	23.0	24.3	21.5	21.9	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	22.3	23.1	23.4	24.8	22.1	22.4	23.2	23.4	24.8

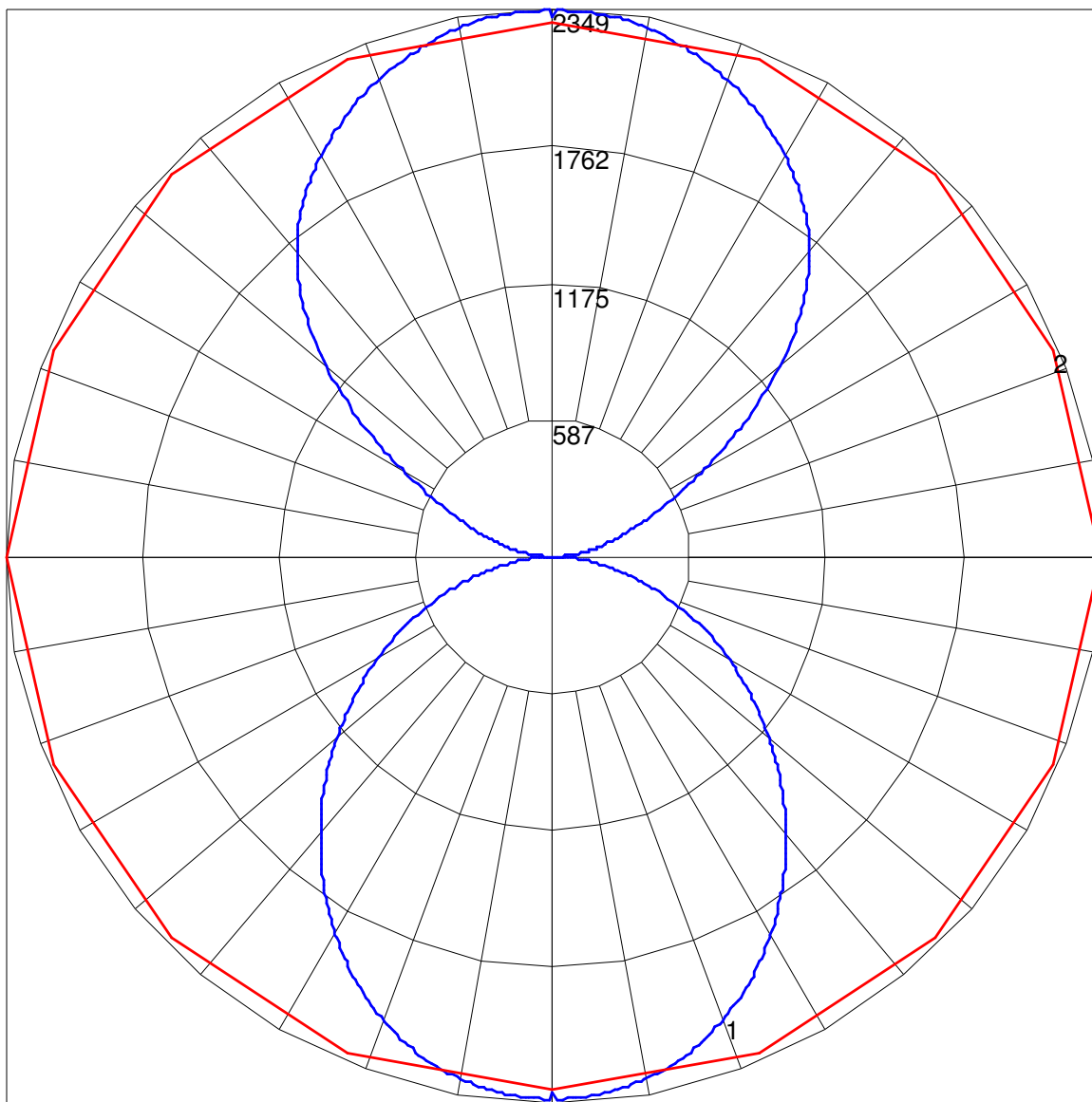
12H	4H	20.9	21.3	21.9	22.4	23.7	20.9	21.3	21.9	22.3	23.7
	6H	21.6	22.0	22.7	23.0	24.4	21.6	22.0	22.7	23.0	24.4
	8H	21.9	22.2	23.0	23.3	24.7	22.0	22.2	23.0	23.3	24.7

Maximum UGR = 24.8

# IES INDOOR REPORT

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

## POLAR GRAPH



Maximum Candela = 2349.3 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.)