

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-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] MX4UDC-4-00-L15-840U-L15-840D-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	12593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	16923	16499	16311
55	15556	15179	15020
65	14348	14002	13850
75	12167	12161	12154
85	9503	9885	10171

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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	2455.520	2455.520	2455.520	2455.520	2455.520
0.5	2492.600	2457.580	2445.220	2450.370	2442.130
1.0	2492.600	2456.550	2445.220	2450.370	2442.130
1.5	2491.570	2455.520	2444.190	2450.370	2441.100
2.0	2490.540	2454.490	2443.160	2449.340	2441.100
2.5	2489.510	2453.460	2441.100	2448.310	2440.070
3.0	2487.450	2451.400	2440.070	2447.280	2438.010
3.5	2485.390	2449.340	2438.010	2445.220	2435.950
4.0	2483.330	2447.280	2435.950	2443.160	2433.890
4.5	2481.270	2444.190	2433.890	2441.100	2430.800
5.0	2479.210	2442.130	2430.800	2438.010	2427.710
5.5	2476.120	2439.040	2427.710	2434.920	2424.620
6.0	2473.030	2434.920	2424.620	2431.830	2420.500
6.5	2468.910	2431.830	2420.500	2427.710	2417.410
7.0	2465.820	2427.710	2417.410	2423.590	2413.290
7.5	2462.730	2423.590	2413.290	2419.470	2410.200
8.0	2457.580	2419.470	2408.140	2415.350	2406.080
8.5	2453.460	2414.320	2402.990	2410.200	2400.930
9.0	2448.310	2410.200	2398.870	2405.050	2395.780
9.5	2443.160	2405.050	2392.690	2398.870	2390.630
10.0	2438.010	2399.900	2387.540	2393.720	2384.450
10.5	2431.830	2393.720	2381.360	2387.540	2379.300
11.0	2426.680	2387.540	2375.180	2381.360	2372.090
11.5	2419.470	2381.360	2369.000	2375.180	2365.910
12.0	2413.290	2375.180	2362.820	2367.970	2358.700
12.5	2407.110	2367.970	2355.610	2360.760	2351.490
13.0	2399.900	2361.790	2348.400	2353.550	2344.280
13.5	2392.690	2353.550	2341.190	2345.310	2337.070
14.0	2385.480	2346.340	2332.950	2338.100	2329.860
14.5	2378.270	2339.130	2324.710	2329.860	2321.620
15.0	2371.060	2330.890	2316.470	2321.620	2313.380
15.5	2361.790	2323.680	2308.230	2312.350	2304.110
16.0	2351.490	2315.440	2298.960	2304.110	2295.870
16.5	2341.190	2306.170	2289.690	2294.840	2286.600
17.0	2331.920	2296.900	2280.420	2285.570	2277.330
17.5	2321.620	2286.600	2270.120	2275.270	2267.030
18.0	2311.320	2276.300	2259.820	2264.970	2256.730
18.5	2301.020	2266.000	2249.520	2253.640	2246.430
19.0	2290.720	2255.700	2240.250	2243.340	2234.070
19.5	2279.390	2245.400	2229.950	2230.980	2221.710
20.0	2269.090	2234.070	2220.680	2219.650	2209.350
20.5	2257.760	2223.770	2210.380	2207.290	2196.990
21.0	2246.430	2212.440	2199.050	2194.930	2183.600
21.5	2234.070	2201.110	2186.690	2182.570	2170.210
22.0	2222.740	2188.750	2173.300	2169.180	2157.850
22.5	2210.380	2176.390	2160.940	2155.790	2144.460
23.0	2198.020	2164.030	2148.580	2141.370	2131.070
23.5	2185.660	2151.670	2135.190	2127.980	2118.710
24.0	2172.270	2139.310	2122.830	2114.590	2105.320
24.5	2158.880	2125.920	2109.440	2101.200	2091.930
25.0	2146.520	2112.530	2096.050	2087.810	2078.540
25.5	2133.130	2099.140	2081.630	2074.420	2064.120
26.0	2118.710	2084.720	2068.240	2061.030	2050.730
26.5	2105.320	2071.330	2053.820	2047.640	2037.340

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27.0	2090.900	2056.910	2039.400	2034.250	2022.920
27.5	2076.480	2042.490	2026.010	2020.860	2009.530
28.0	2062.060	2027.040	2010.560	2006.440	1995.110
28.5	2046.610	2011.590	1996.140	1993.050	1980.690
29.0	2031.160	1997.170	1981.720	1978.630	1966.270
29.5	2016.740	1981.720	1967.300	1963.180	1952.880
30.0	2001.290	1966.270	1952.880	1948.760	1938.460
30.5	1985.840	1950.820	1937.430	1934.340	1924.040
31.0	1969.360	1936.400	1921.980	1918.890	1909.620
31.5	1953.910	1920.950	1906.530	1903.440	1894.170
32.0	1937.430	1904.470	1891.080	1886.960	1878.720
32.5	1920.950	1889.020	1875.630	1871.510	1862.240
33.0	1904.470	1873.570	1860.180	1856.060	1845.760
33.5	1889.020	1857.090	1843.700	1839.580	1830.310
34.0	1871.510	1840.610	1828.250	1823.100	1813.830
34.5	1855.030	1824.130	1810.740	1806.620	1796.320
35.0	1838.550	1808.680	1794.260	1790.140	1778.810
35.5	1821.040	1791.170	1777.780	1773.660	1761.300
36.0	1803.530	1774.690	1761.300	1756.150	1744.820
36.5	1787.050	1758.210	1744.820	1739.670	1728.340
37.0	1769.540	1740.700	1727.310	1722.160	1710.830
37.5	1752.030	1723.190	1710.830	1704.650	1694.350
38.0	1733.490	1705.680	1693.320	1687.140	1676.840
38.5	1715.980	1688.170	1675.810	1670.660	1659.330
39.0	1699.500	1670.660	1658.300	1653.150	1642.850
39.5	1680.960	1653.150	1641.820	1635.640	1624.310
40.0	1663.450	1634.610	1624.310	1618.130	1607.830
40.5	1644.910	1617.100	1606.800	1600.620	1590.320
41.0	1627.400	1598.560	1589.290	1582.080	1571.780
41.5	1608.860	1581.050	1570.750	1564.570	1553.240
42.0	1591.350	1562.510	1553.240	1547.060	1535.730
42.5	1573.840	1545.000	1535.730	1528.520	1518.220
43.0	1555.300	1527.490	1518.220	1511.010	1499.680
43.5	1537.790	1508.950	1499.680	1493.500	1482.170
44.0	1519.250	1490.410	1481.140	1474.960	1464.660
44.5	1500.710	1471.870	1462.600	1456.420	1446.120
45.0	1482.170	1454.360	1445.090	1437.880	1428.610
45.5	1464.660	1435.820	1426.550	1420.370	1411.100
46.0	1446.120	1417.280	1408.010	1401.830	1393.590
46.5	1427.580	1398.740	1390.500	1384.320	1376.080
47.0	1409.040	1380.200	1371.960	1365.780	1357.540
47.5	1389.470	1361.660	1353.420	1347.240	1340.030
48.0	1370.930	1343.120	1334.880	1329.730	1321.490
48.5	1352.390	1324.580	1317.370	1311.190	1302.950
49.0	1332.820	1306.040	1298.830	1292.650	1285.440
49.5	1314.280	1287.500	1280.290	1275.140	1267.930
50.0	1294.710	1268.960	1261.750	1256.600	1249.390
50.5	1275.140	1250.420	1243.210	1238.060	1231.880
51.0	1255.570	1231.880	1224.670	1219.520	1213.340
51.5	1237.030	1213.340	1206.130	1202.010	1194.800
52.0	1218.490	1194.800	1187.590	1183.470	1177.290
52.5	1198.920	1176.260	1169.050	1165.960	1158.750
53.0	1180.380	1157.720	1150.510	1147.420	1140.210
53.5	1160.810	1139.180	1131.970	1128.880	1121.670
54.0	1142.270	1120.640	1114.460	1111.370	1103.130
54.5	1123.730	1103.130	1095.920	1092.830	1084.590

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55.0	1105.190	1085.620	1078.410	1075.320	1067.080
55.5	1087.680	1067.080	1059.870	1056.780	1049.570
56.0	1068.110	1048.540	1041.330	1039.270	1031.030
56.5	1049.570	1031.030	1023.305	1021.039	1012.902
57.0	1032.060	1012.490	1005.074	1002.602	994.877
57.5	1013.932	994.568	986.946	984.680	976.646
58.0	995.804	976.852	968.715	966.655	958.621
58.5	977.573	959.033	950.793	948.939	941.317
59.0	959.651	941.111	932.768	931.017	923.704
59.5	942.244	922.983	914.434	913.198	906.297
60.0	924.425	904.958	896.306	895.276	888.581
60.5	906.812	887.345	878.796	877.251	870.659
61.0	889.508	869.732	861.389	859.638	853.149
61.5	870.968	852.325	844.085	842.128	835.845
62.0	852.737	834.403	826.163	824.721	818.129
62.5	834.094	817.820	809.271	808.138	801.340
63.0	816.172	803.194	796.293	795.778	790.216
63.5	798.044	787.229	781.770	780.637	774.869
64.0	787.126	771.676	766.732	764.466	757.874
64.5	770.131	755.093	749.737	747.677	741.497
65.0	751.076	737.377	732.948	730.991	725.017
65.5	731.609	719.455	715.438	714.511	708.434
66.0	712.863	701.945	698.340	697.928	691.439
66.5	694.323	684.023	680.933	680.933	675.165
67.0	675.989	666.204	663.732	664.041	658.788
67.5	657.964	648.694	646.428	647.046	641.896
68.0	639.733	631.184	629.124	629.948	624.592
68.5	621.399	613.365	611.717	612.850	607.597
69.0	602.447	595.443	594.207	594.825	589.984
69.5	584.010	577.830	576.388	577.109	572.680
70.0	565.779	560.011	558.981	559.290	555.376
70.5	547.857	542.089	541.368	541.677	537.969
71.0	529.523	524.270	524.064	524.476	520.459
71.5	511.189	506.451	506.863	507.172	503.670
72.0	493.370	488.529	489.353	489.765	486.778
72.5	475.551	470.916	472.255	472.667	470.195
73.0	457.938	453.715	455.569	456.084	453.921
73.5	440.840	436.720	438.883	439.810	437.441
74.0	423.948	419.725	422.403	423.124	421.579
74.5	407.056	403.039	406.026	406.747	405.614
75.0	390.061	386.456	389.855	390.576	389.649
75.5	373.272	369.873	373.787	374.714	373.684
76.0	356.277	353.908	357.925	358.955	358.131
76.5	340.209	338.149	342.166	343.299	342.578
77.0	324.553	322.287	326.716	327.746	326.613
77.5	308.382	306.837	311.266	312.090	310.957
78.0	292.623	291.387	295.816	297.052	295.919
78.5	276.967	276.349	280.572	282.014	281.087
79.0	261.929	261.311	265.637	267.388	266.667
79.5	246.891	246.582	250.908	252.762	252.144
80.0	232.059	232.162	236.179	238.754	237.930
80.5	217.124	218.051	222.171	224.643	224.025
81.0	202.807	204.249	208.266	210.841	210.429
81.5	189.005	190.550	194.670	197.245	196.936
82.0	176.130	177.160	181.383	184.061	183.752
82.5	163.255	164.182	168.302	170.980	170.774

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83.0	150.380	151.822	155.427	158.208	158.414
83.5	137.711	139.462	142.964	145.642	146.260
84.0	125.866	127.308	130.604	133.179	134.106
84.5	113.815	115.360	118.450	121.025	121.952
85.0	102.588	103.824	106.708	108.974	109.798
85.5	91.670	92.288	94.760	97.129	97.953
86.0	80.958	81.164	83.327	85.490	86.520
86.5	70.349	70.349	72.306	74.263	75.190
87.0	59.637	59.637	61.079	63.551	64.272
87.5	49.028	49.131	50.470	52.942	53.869
88.0	38.934	38.831	40.170	42.848	43.878
88.5	29.252	28.634	30.385	32.754	34.196
89.0	18.952	18.643	21.012	23.278	24.823
89.5	8.755	10.403	12.566	14.317	14.832
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.479	3.414	3.152	3.064	3.327
91.0	14.271	7.529	6.128	6.041	5.953
91.5	22.938	15.321	9.105	9.018	8.930
92.0	31.693	25.477	13.132	11.732	11.732
92.5	40.798	35.983	20.312	14.708	14.446
93.0	50.254	46.051	28.716	19.524	17.598
93.5	59.797	55.682	37.734	26.353	22.938
94.0	69.164	65.137	47.715	34.495	30.205
94.5	78.795	74.593	58.133	42.899	38.084
95.0	88.250	84.311	68.377	51.479	45.876
95.5	97.706	93.416	78.357	60.322	54.106
96.0	106.723	102.696	88.163	69.515	62.511
96.5	115.829	111.976	97.968	78.883	71.178
97.0	124.671	121.082	107.686	88.250	80.371
97.5	133.776	130.274	117.492	97.793	89.564
98.0	142.794	139.292	127.035	107.249	98.844
98.5	151.812	148.397	136.228	116.879	108.124
99.0	161.004	157.765	145.596	126.072	117.492
99.5	170.285	167.045	155.051	135.265	126.685
100.0	179.390	176.413	164.506	144.720	135.702
100.5	188.845	185.781	173.962	154.526	144.808
101.0	198.563	195.149	183.592	164.419	154.701
101.5	208.457	204.692	193.398	174.312	164.944
102.0	218.087	214.585	203.204	184.205	175.100
102.5	228.155	224.391	213.359	194.098	185.168
103.0	238.486	234.546	223.428	203.904	195.412
103.5	248.817	244.877	234.109	214.410	205.567
104.0	259.411	255.296	244.965	225.266	216.161
104.5	270.354	266.152	255.821	236.385	226.754
105.0	281.561	277.271	266.590	247.329	237.523
105.5	293.030	288.565	277.709	258.360	248.204
106.0	304.674	299.946	289.003	269.566	258.885
106.5	316.406	311.678	300.822	280.860	269.654
107.0	328.925	323.935	313.429	292.855	281.386
107.5	341.883	336.542	326.211	305.549	294.080
108.0	354.753	349.500	339.256	319.295	307.125
108.5	368.323	362.720	352.301	333.040	320.608
109.0	382.243	376.202	365.696	346.961	334.266
109.5	396.514	390.210	379.792	360.794	348.099
110.0	411.748	404.569	394.238	374.977	362.545
110.5	427.332	419.277	409.034	390.210	377.516

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111.0	443.091	434.686	424.355	406.057	392.574
111.5	459.200	450.532	439.939	422.166	408.071
112.0	475.922	466.817	455.435	438.275	422.866
112.5	492.731	483.539	471.107	454.297	438.538
113.0	510.329	500.786	487.653	470.844	454.910
113.5	528.452	518.821	505.163	488.704	472.507
114.0	546.837	537.207	523.724	507.702	492.031
114.5	565.836	556.205	542.635	527.489	512.780
115.0	585.097	575.729	562.246	547.450	533.792
115.5	605.233	595.428	582.383	567.324	554.542
116.0	625.545	615.914	603.219	588.248	575.641
116.5	646.994	636.926	624.757	609.698	598.142
117.0	669.320	658.376	646.469	632.811	621.342
117.5	685.779	675.098	666.343	654.086	644.893
118.0	706.791	694.622	686.742	676.061	665.818
118.5	731.218	717.910	707.579	696.460	684.641
119.0	755.119	740.848	731.218	719.573	705.565
119.5	779.283	765.275	756.257	743.037	729.029
120.0	804.234	790.576	781.384	768.689	753.805
120.5	829.011	816.229	807.299	795.917	780.246
121.0	855.013	842.406	833.388	823.058	808.349
121.5	880.753	868.321	859.391	850.548	835.840
122.0	907.893	894.761	886.881	878.126	863.418
122.5	934.158	921.026	914.022	905.267	889.508
123.0	961.299	949.042	942.038	935.034	918.399
123.5	989.315	977.058	971.805	964.801	948.166
124.0	1017.331	1005.949	1000.696	994.568	978.809
124.5	1045.347	1033.965	1029.588	1023.459	1008.576
125.0	1073.363	1061.981	1057.604	1052.351	1037.467
125.5	1102.254	1090.873	1086.495	1081.242	1065.483
126.0	1130.270	1118.889	1116.262	1110.134	1093.499
126.5	1158.286	1146.905	1146.029	1140.776	1123.266
127.0	1187.178	1175.796	1175.796	1171.419	1154.784
127.5	1216.069	1203.812	1203.812	1201.186	1186.302
128.0	1244.085	1231.828	1232.704	1230.953	1216.069
128.5	1272.101	1258.969	1260.720	1260.720	1244.961
129.0	1300.117	1286.109	1288.736	1289.611	1274.728
129.5	1328.133	1314.125	1317.627	1319.378	1305.370
130.0	1356.149	1342.141	1346.519	1349.145	1337.764
130.5	1384.165	1369.282	1376.286	1378.037	1368.406
131.0	1412.181	1396.422	1404.302	1406.053	1396.422
131.5	1438.446	1422.687	1432.318	1432.318	1423.563
132.0	1465.587	1448.952	1459.458	1460.334	1449.828
132.5	1491.852	1476.093	1486.599	1487.474	1476.093
133.0	1518.117	1503.233	1512.864	1514.615	1501.482
133.5	1544.382	1529.498	1540.004	1541.755	1528.623
134.0	1570.647	1554.888	1565.394	1568.020	1554.888
134.5	1594.285	1580.277	1589.908	1591.659	1580.277
135.0	1617.924	1604.791	1613.546	1615.297	1603.040
135.5	1640.687	1630.181	1637.185	1638.060	1625.803
136.0	1663.450	1653.819	1659.072	1661.699	1649.442
136.5	1687.088	1676.582	1680.960	1685.337	1673.956
137.0	1708.976	1699.345	1703.723	1707.225	1696.719
137.5	1730.863	1720.357	1724.735	1727.361	1716.855
138.0	1751.875	1741.369	1744.871	1746.622	1736.116
138.5	1772.887	1761.506	1765.008	1765.883	1754.502

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1793.024	1781.642	1785.144	1785.144	1772.887
139.5	1813.160	1801.779	1804.405	1803.530	1790.397
140.0	1832.421	1820.164	1823.666	1822.791	1809.658
140.5	1850.807	1837.674	1841.176	1840.301	1826.293
141.0	1869.192	1856.060	1858.686	1856.935	1842.927
141.5	1885.827	1872.694	1876.196	1873.570	1857.811
142.0	1903.337	1890.204	1892.831	1889.329	1873.570
142.5	1919.971	1906.839	1909.465	1905.963	1888.453
143.0	1936.606	1922.598	1925.224	1921.722	1904.212
143.5	1952.365	1939.232	1940.983	1937.481	1919.096
144.0	1967.248	1954.991	1955.867	1951.489	1933.104
144.5	1982.132	1969.875	1970.750	1965.497	1947.112
145.0	1996.140	1984.758	1984.758	1978.630	1960.244
145.5	2011.023	1999.642	1998.766	1993.513	1974.252
146.0	2025.031	2013.650	2012.774	2006.646	1988.260
146.5	2039.039	2027.658	2025.907	2020.654	2002.268
147.0	2052.172	2041.666	2038.164	2034.662	2016.276
147.5	2065.304	2054.798	2051.296	2047.794	2029.409
148.0	2078.437	2067.931	2062.678	2060.051	2043.417
148.5	2091.569	2081.063	2074.059	2072.308	2057.425
149.0	2103.826	2094.196	2085.441	2084.565	2071.433
149.5	2116.083	2106.453	2095.947	2096.822	2084.565
150.0	2128.340	2118.710	2107.328	2108.204	2096.822
150.5	2140.597	2130.967	2117.834	2118.710	2109.079
151.0	2151.979	2142.348	2128.340	2129.216	2120.461
151.5	2164.236	2153.730	2139.722	2139.722	2130.967
152.0	2175.617	2165.111	2150.228	2149.352	2141.473
152.5	2186.999	2175.617	2160.734	2159.858	2151.103
153.0	2198.380	2186.123	2171.240	2170.364	2159.858
153.5	2208.886	2196.629	2181.746	2180.870	2167.738
154.0	2219.392	2207.135	2193.127	2191.376	2176.493
154.5	2230.774	2216.766	2203.633	2201.007	2185.248
155.0	2241.280	2226.396	2214.139	2211.513	2194.878
155.5	2250.910	2235.151	2224.645	2222.019	2204.509
156.0	2260.541	2244.782	2236.027	2231.649	2214.139
156.5	2270.171	2254.412	2246.533	2242.155	2223.770
157.0	2279.802	2264.043	2257.039	2252.661	2233.400
157.5	2288.557	2272.798	2266.669	2262.292	2243.031
158.0	2297.312	2281.553	2276.300	2271.922	2252.661
158.5	2306.942	2291.183	2285.930	2281.553	2263.167
159.0	2314.822	2299.938	2294.685	2291.183	2272.798
159.5	2323.577	2308.693	2303.440	2300.814	2282.428
160.0	2331.456	2316.573	2312.195	2309.569	2292.059
160.5	2339.336	2324.452	2320.075	2318.324	2301.689
161.0	2347.215	2332.332	2327.954	2327.079	2311.320
161.5	2355.095	2341.087	2334.958	2335.834	2320.950
162.0	2363.850	2348.966	2341.962	2344.589	2329.705
162.5	2371.729	2356.846	2348.966	2352.468	2337.585
163.0	2379.609	2364.725	2355.970	2360.348	2345.464
163.5	2387.488	2371.729	2362.974	2368.227	2352.468
164.0	2395.368	2378.733	2369.103	2375.231	2359.472
164.5	2401.496	2385.737	2375.231	2382.235	2366.476
165.0	2408.500	2392.741	2381.360	2389.239	2372.605
165.5	2415.504	2398.870	2387.488	2395.368	2378.733
166.0	2422.508	2404.998	2393.617	2401.496	2383.986
166.5	2429.512	2411.127	2399.745	2406.749	2390.115

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2435.641	2416.380	2404.998	2412.002	2395.368
167.5	2441.769	2421.633	2411.127	2417.255	2401.496
168.0	2447.898	2426.886	2416.380	2422.508	2406.749
168.5	2454.026	2432.139	2421.633	2427.761	2412.878
169.0	2459.279	2436.516	2426.886	2432.139	2418.131
169.5	2463.657	2440.894	2431.263	2436.516	2423.384
170.0	2468.034	2445.271	2435.641	2440.894	2429.512
170.5	2472.412	2449.649	2439.143	2445.271	2433.890
171.0	2476.789	2453.151	2442.645	2449.649	2438.267
171.5	2480.291	2456.653	2446.147	2454.026	2442.645
172.0	2483.793	2460.155	2448.773	2457.528	2446.147
172.5	2487.295	2463.657	2451.400	2460.155	2448.773
173.0	2490.797	2467.159	2454.026	2463.657	2450.524
173.5	2493.424	2469.785	2456.653	2465.408	2452.275
174.0	2496.050	2472.412	2459.279	2467.159	2453.151
174.5	2497.801	2474.163	2461.030	2468.910	2454.026
175.0	2499.552	2476.789	2462.781	2469.785	2454.026
175.5	2501.303	2478.540	2465.408	2470.661	2454.902
176.0	2503.054	2480.291	2467.159	2470.661	2454.902
176.5	2503.930	2482.042	2468.034	2471.536	2454.902
177.0	2504.805	2483.793	2469.785	2471.536	2454.026
177.5	2506.556	2485.544	2471.536	2471.536	2454.026
178.0	2507.432	2485.544	2472.412	2471.536	2454.902
178.5	2507.432	2486.420	2473.287	2471.536	2454.902
179.0	2508.307	2487.295	2473.287	2471.536	2454.902
179.5	2509.183	2487.295	2474.163	2471.536	2454.902
180.0	2478.540	2478.540	2478.540	2478.540	2478.540



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	887.44	N.A.	7.00
0-30	1855.33	N.A.	14.70
0-40	2980.62	N.A.	23.70
0-60	5064.74	N.A.	40.20
0-80	6202.34	N.A.	49.30
0-90	6322.54	N.A.	50.20
10-90	6090.9	N.A.	48.40
20-40	2093.18	N.A.	16.60
20-50	3210.25	N.A.	25.50
40-70	2808.42	N.A.	22.30
60-80	1137.6	N.A.	9.00
70-80	413.30	N.A.	3.30
80-90	120.20	N.A.	1.00
90-110	358.69	N.A.	2.80
90-120	920.78	N.A.	7.30
90-130	1865.36	N.A.	14.80
90-150	4338.68	N.A.	34.50
90-180	6270.54	N.A.	49.80
110-180	5911.85	N.A.	46.90
0-180	12593.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	231.64
10-20	655.80
20-30	967.89
30-40	1125.29
40-50	1117.07
50-60	967.05
60-70	724.30
70-80	413.30
80-90	120.20
90-100	77.36
100-110	281.32
110-120	562.10
120-130	944.57
130-140	1235.12
140-150	1238.2
150-160	1022.82
160-170	674.00
170-180	235.05

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-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 : MX4UDC-4-00-L15-840U-L15-840D-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	17.6	18.5	18.6	19.5	20.7	17.5	18.4	18.5	19.4	20.6
	3H	19.4	20.2	20.4	21.1	22.4	19.3	20.1	20.3	21.1	22.3
	4H	20.0	20.7	21.0	21.7	23.0	19.9	20.7	20.9	21.6	22.9
	6H	20.4	21.1	21.4	22.1	23.4	20.4	21.1	21.4	22.1	23.4
	8H	20.6	21.2	21.6	22.2	23.5	20.5	21.2	21.5	22.2	23.5
	12H	20.6	21.3	21.6	22.3	23.6	20.6	21.2	21.6	22.2	23.6

### UGR Viewed Endwise

4H	2H	18.2	18.9	19.2	19.9	21.2	18.1	18.8	19.1	19.8	21.1
	3H	20.1	20.7	21.1	21.8	23.1	20.1	20.7	21.1	21.7	23.0
	4H	20.9	21.4	21.9	22.4	23.8	20.8	21.4	21.8	22.4	23.7
	6H	21.4	21.9	22.4	22.9	24.3	21.4	21.9	22.4	22.9	24.3
	8H	21.6	22.1	22.6	23.1	24.4	21.6	22.1	22.6	23.1	24.4
	12H	21.7	22.1	22.8	23.2	24.5	21.7	22.1	22.8	23.2	24.5

8H	4H	21.1	21.6	22.1	22.6	23.9	21.1	21.5	22.1	22.5	23.9
	6H	21.8	22.2	22.8	23.2	24.6	21.8	22.2	22.8	23.2	24.6
	8H	22.1	22.4	23.1	23.4	24.8	22.1	22.4	23.1	23.5	24.8
	12H	22.3	22.5	23.3	23.6	25.0	22.3	22.6	23.4	23.6	25.0

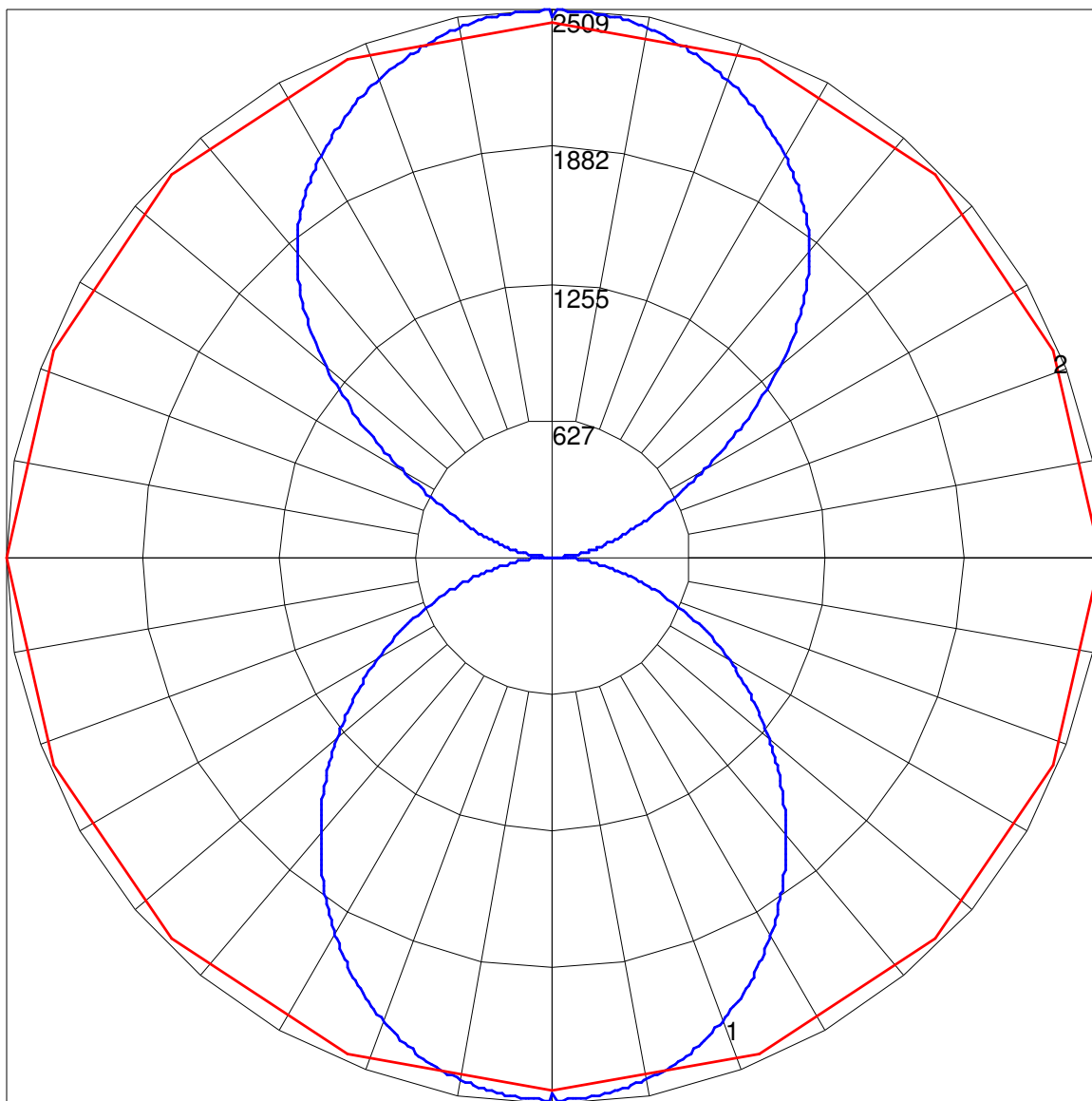
12H	4H	21.1	21.5	22.1	22.6	23.9	21.1	21.5	22.1	22.5	23.9
	6H	21.8	22.2	22.9	23.2	24.6	21.8	22.2	22.9	23.2	24.6
	8H	22.1	22.4	23.2	23.5	24.9	22.2	22.4	23.2	23.5	24.9

Maximum UGR = 25.0

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L15-840D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2509.183 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.)