

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-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-L12-840U-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	11338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	15426	15040	14869
55	14180	13837	13691
65	13079	12763	12625
75	11091	11085	11079
85	8663	9010	9271

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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>	2238.341	2238.341	2238.341	2238.341	2238.341
<b>0.5</b>	2272.141	2240.219	2228.952	2233.646	2226.135
<b>1.0</b>	2272.141	2239.280	2228.952	2233.646	2226.135
<b>1.5</b>	2271.203	2238.341	2228.013	2233.646	2225.196
<b>2.0</b>	2270.264	2237.402	2227.074	2232.708	2225.196
<b>2.5</b>	2269.325	2236.463	2225.196	2231.769	2224.257
<b>3.0</b>	2267.447	2234.585	2224.257	2230.830	2222.380
<b>3.5</b>	2265.569	2232.708	2222.380	2228.952	2220.502
<b>4.0</b>	2263.691	2230.830	2220.502	2227.074	2218.624
<b>4.5</b>	2261.814	2228.013	2218.624	2225.196	2215.807
<b>5.0</b>	2259.936	2226.135	2215.807	2222.380	2212.991
<b>5.5</b>	2257.119	2223.319	2212.991	2219.563	2210.174
<b>6.0</b>	2254.302	2219.563	2210.174	2216.746	2206.418
<b>6.5</b>	2250.547	2216.746	2206.418	2212.991	2203.602
<b>7.0</b>	2247.730	2212.991	2203.602	2209.235	2199.846
<b>7.5</b>	2244.913	2209.235	2199.846	2205.479	2197.029
<b>8.0</b>	2240.219	2205.479	2195.152	2201.724	2193.274
<b>8.5</b>	2236.463	2200.785	2190.457	2197.029	2188.579
<b>9.0</b>	2231.769	2197.029	2186.701	2192.335	2183.885
<b>9.5</b>	2227.074	2192.335	2181.068	2186.701	2179.190
<b>10.0</b>	2222.380	2187.640	2176.374	2182.007	2173.557
<b>10.5</b>	2216.746	2182.007	2170.740	2176.374	2168.862
<b>11.0</b>	2212.052	2176.374	2165.107	2170.740	2162.290
<b>11.5</b>	2205.479	2170.740	2159.473	2165.107	2156.657
<b>12.0</b>	2199.846	2165.107	2153.840	2158.534	2150.084
<b>12.5</b>	2194.213	2158.534	2147.268	2151.962	2143.512
<b>13.0</b>	2187.640	2152.901	2140.695	2145.390	2136.940
<b>13.5</b>	2181.068	2145.390	2134.123	2137.879	2130.367
<b>14.0</b>	2174.496	2138.817	2126.612	2131.306	2123.795
<b>14.5</b>	2167.923	2132.245	2119.101	2123.795	2116.284
<b>15.0</b>	2161.351	2124.734	2111.589	2116.284	2108.773
<b>15.5</b>	2152.901	2118.162	2104.078	2107.834	2100.322
<b>16.0</b>	2143.512	2110.650	2095.628	2100.322	2092.811
<b>16.5</b>	2134.123	2102.200	2087.178	2091.872	2084.361
<b>17.0</b>	2125.673	2093.750	2078.728	2083.422	2075.911
<b>17.5</b>	2116.284	2084.361	2069.339	2074.033	2066.522
<b>18.0</b>	2106.895	2074.972	2059.950	2064.644	2057.133
<b>18.5</b>	2097.506	2065.583	2050.561	2054.316	2047.744
<b>19.0</b>	2088.117	2056.194	2042.111	2044.927	2036.477
<b>19.5</b>	2077.789	2046.805	2032.722	2033.660	2025.210
<b>20.0</b>	2068.400	2036.477	2024.271	2023.333	2013.944
<b>20.5</b>	2058.072	2027.088	2014.882	2012.066	2002.677
<b>21.0</b>	2047.744	2016.760	2004.555	2000.799	1990.471
<b>21.5</b>	2036.477	2006.432	1993.288	1989.532	1978.265
<b>22.0</b>	2026.149	1995.166	1981.082	1977.326	1966.998
<b>22.5</b>	2014.882	1983.899	1969.815	1965.121	1954.793
<b>23.0</b>	2003.616	1972.632	1958.548	1951.976	1942.587
<b>23.5</b>	1992.349	1961.365	1946.343	1939.770	1931.320
<b>24.0</b>	1980.143	1950.098	1935.076	1927.565	1919.115
<b>24.5</b>	1967.937	1937.893	1922.870	1915.359	1906.909
<b>25.0</b>	1956.671	1925.687	1910.664	1903.153	1894.703
<b>25.5</b>	1944.465	1913.481	1897.520	1890.947	1881.558
<b>26.0</b>	1931.320	1900.336	1885.314	1878.742	1869.353
<b>26.5</b>	1919.115	1888.131	1872.169	1866.536	1857.147

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27.0	1905.970	1874.986	1859.025	1854.330	1844.002
27.5	1892.825	1861.842	1846.819	1842.125	1831.797
28.0	1879.681	1847.758	1832.736	1828.980	1818.652
28.5	1865.597	1833.674	1819.591	1816.774	1805.507
29.0	1851.514	1820.530	1806.446	1803.630	1792.363
29.5	1838.369	1806.446	1793.302	1789.546	1780.157
30.0	1824.285	1792.363	1780.157	1776.401	1767.012
30.5	1810.202	1778.279	1766.074	1763.257	1753.868
31.0	1795.180	1765.135	1751.990	1749.173	1740.723
31.5	1781.096	1751.051	1737.907	1735.090	1726.640
32.0	1766.074	1736.029	1723.823	1720.067	1712.556
32.5	1751.051	1721.945	1709.739	1705.984	1697.534
33.0	1736.029	1707.862	1695.656	1691.900	1682.511
33.5	1721.945	1692.839	1680.634	1676.878	1668.428
34.0	1705.984	1677.817	1666.550	1661.856	1653.405
34.5	1690.961	1662.794	1650.589	1646.833	1637.444
35.0	1675.939	1648.711	1635.566	1631.811	1621.483
35.5	1659.978	1632.750	1620.544	1616.788	1605.521
36.0	1644.016	1617.727	1605.521	1600.827	1590.499
36.5	1628.994	1602.705	1590.499	1585.805	1575.477
37.0	1613.033	1586.743	1574.538	1569.843	1559.515
37.5	1597.071	1570.782	1559.515	1553.882	1544.493
38.0	1580.171	1554.821	1543.554	1537.921	1528.532
38.5	1564.210	1538.859	1527.593	1522.898	1512.570
39.0	1549.187	1522.898	1511.631	1506.937	1497.548
39.5	1532.287	1506.937	1496.609	1490.975	1480.648
40.0	1516.326	1490.037	1480.648	1475.014	1465.625
40.5	1499.426	1474.075	1464.686	1459.053	1449.664
41.0	1483.464	1457.175	1448.725	1442.153	1432.764
41.5	1466.564	1441.214	1431.825	1426.191	1415.863
42.0	1450.603	1424.313	1415.863	1410.230	1399.902
42.5	1434.641	1408.352	1399.902	1393.330	1383.941
43.0	1417.741	1392.391	1383.941	1377.368	1367.040
43.5	1401.780	1375.491	1367.040	1361.407	1351.079
44.0	1384.880	1358.590	1350.140	1344.507	1335.118
44.5	1367.979	1341.690	1333.240	1327.607	1318.218
45.0	1351.079	1325.729	1317.279	1310.706	1302.256
45.5	1335.118	1308.829	1300.378	1294.745	1286.295
46.0	1318.218	1291.928	1283.478	1277.845	1270.334
46.5	1301.317	1275.028	1267.517	1261.884	1254.372
47.0	1284.417	1258.128	1250.617	1244.983	1237.472
47.5	1266.578	1241.228	1233.716	1228.083	1221.511
48.0	1249.678	1224.327	1216.816	1212.122	1204.611
48.5	1232.778	1207.427	1200.855	1195.222	1187.710
49.0	1214.938	1190.527	1183.955	1178.321	1171.749
49.5	1198.038	1173.627	1167.054	1162.360	1155.788
50.0	1180.199	1156.727	1150.154	1145.460	1138.887
50.5	1162.360	1139.826	1133.254	1128.560	1122.926
51.0	1144.521	1122.926	1116.354	1111.659	1106.026
51.5	1127.621	1106.026	1099.454	1095.698	1089.126
52.0	1110.720	1089.126	1082.553	1078.798	1073.164
52.5	1092.881	1072.225	1065.653	1062.836	1056.264
53.0	1075.981	1055.325	1048.753	1045.936	1039.364
53.5	1058.142	1038.425	1031.853	1029.036	1022.464
54.0	1041.242	1021.525	1015.891	1013.075	1005.563
54.5	1024.341	1005.563	998.991	996.174	988.663

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55.0	1007.441	989.602	983.030	980.213	972.702
55.5	991.480	972.702	966.130	963.313	956.741
56.0	973.641	955.802	949.229	947.352	939.840
56.5	956.741	939.840	932.799	930.733	923.316
57.0	940.779	922.940	916.180	913.927	906.885
57.5	924.255	906.603	899.655	897.590	890.266
58.0	907.730	890.454	883.037	881.159	873.836
58.5	891.111	874.211	866.700	865.010	858.062
59.0	874.774	857.874	850.269	848.673	842.007
59.5	858.907	841.350	833.557	832.430	826.139
60.0	842.664	824.919	817.032	816.093	809.990
60.5	826.609	808.864	801.071	799.662	793.653
61.0	810.835	792.808	785.203	783.607	777.692
61.5	793.935	776.941	769.430	767.646	761.919
62.0	777.317	760.604	753.093	751.778	745.769
62.5	760.322	745.488	737.695	736.662	730.465
63.0	743.985	732.155	725.865	725.395	720.325
63.5	727.461	717.602	712.626	711.593	706.336
64.0	717.509	703.425	698.918	696.853	690.844
64.5	702.017	688.309	683.426	681.549	675.915
65.0	684.647	672.160	668.122	666.338	660.893
65.5	666.902	655.823	652.161	651.316	645.776
66.0	649.814	639.861	636.575	636.200	630.285
66.5	632.913	623.524	620.708	620.708	615.450
67.0	616.201	607.281	605.028	605.310	600.521
67.5	599.770	591.320	589.255	589.818	585.123
68.0	583.152	575.359	573.481	574.232	569.350
68.5	566.439	559.116	557.614	558.646	553.858
69.0	549.163	542.779	541.652	542.216	537.803
69.5	532.357	526.724	525.409	526.066	522.029
70.0	515.739	510.481	509.542	509.823	506.256
70.5	499.402	494.144	493.487	493.768	490.388
71.0	482.689	477.901	477.713	478.089	474.427
71.5	465.977	461.658	462.033	462.315	459.123
72.0	449.734	445.321	446.072	446.448	443.725
72.5	433.491	429.266	430.486	430.862	428.609
73.0	417.436	413.586	415.276	415.746	413.774
73.5	401.850	398.094	400.066	400.911	398.751
74.0	386.452	382.602	385.043	385.701	384.292
74.5	371.054	367.392	370.115	370.772	369.739
75.0	355.562	352.276	355.374	356.031	355.186
75.5	340.258	337.159	340.727	341.572	340.633
76.0	324.766	322.607	326.268	327.207	326.456
76.5	310.119	308.241	311.903	312.936	312.279
77.0	295.848	293.782	297.820	298.758	297.726
77.5	281.107	279.699	283.736	284.487	283.454
78.0	266.742	265.615	269.653	270.779	269.746
78.5	252.471	251.907	255.757	257.071	256.226
79.0	238.763	238.199	242.143	243.739	243.082
79.5	225.055	224.773	228.716	230.406	229.843
80.0	211.535	211.628	215.290	217.637	216.886
80.5	197.920	198.765	202.521	204.774	204.211
81.0	184.870	186.184	189.846	192.193	191.818
81.5	172.288	173.697	177.452	179.800	179.518
82.0	160.552	161.491	165.341	167.782	167.500
82.5	148.816	149.661	153.416	155.858	155.670

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83.0	137.080	138.394	141.680	144.215	144.403
83.5	125.531	127.127	130.319	132.761	133.324
84.0	114.734	116.048	119.053	121.400	122.245
84.5	103.749	105.157	107.974	110.321	111.166
85.0	93.515	94.641	97.270	99.336	100.087
85.5	83.562	84.126	86.379	88.538	89.289
86.0	73.798	73.985	75.957	77.929	78.868
86.5	64.127	64.127	65.911	67.695	68.540
87.0	54.362	54.362	55.677	57.930	58.587
87.5	44.692	44.786	46.006	48.260	49.105
88.0	35.490	35.397	36.617	39.058	39.997
88.5	26.665	26.101	27.698	29.857	31.172
89.0	17.276	16.994	19.154	21.219	22.627
89.5	7.981	9.483	11.455	13.051	13.520
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.760	3.035	2.802	2.724	2.958
91.0	12.687	6.694	5.448	5.370	5.293
91.5	20.392	13.621	8.094	8.017	7.939
92.0	28.175	22.649	11.675	10.429	10.429
92.5	36.270	31.989	18.057	13.076	12.842
93.0	44.675	40.939	25.529	17.356	15.644
93.5	53.159	49.501	33.545	23.427	20.392
94.0	61.487	57.907	42.418	30.666	26.852
94.5	70.048	66.313	51.680	38.138	33.857
95.0	78.454	74.952	60.787	45.765	40.784
95.5	86.860	83.046	69.659	53.626	48.100
96.0	94.877	91.297	78.376	61.798	55.572
96.5	102.971	99.547	87.094	70.126	63.277
97.0	110.832	107.641	95.733	78.454	71.449
97.5	118.927	115.813	104.450	86.938	79.622
98.0	126.943	123.830	112.934	95.344	87.872
98.5	134.960	131.925	121.106	103.905	96.122
99.0	143.132	140.253	129.434	112.078	104.450
99.5	151.383	148.503	137.840	120.250	112.622
100.0	159.477	156.831	146.246	128.656	120.639
100.5	167.883	165.159	154.651	137.373	128.734
101.0	176.522	173.487	163.213	146.168	137.529
101.5	185.317	181.970	171.930	154.963	146.635
102.0	193.879	190.765	180.647	163.758	155.663
102.5	202.829	199.483	189.676	172.553	164.614
103.0	212.013	208.511	198.626	181.270	173.720
103.5	221.198	217.695	208.122	190.610	182.749
104.0	230.615	226.957	217.773	200.261	192.166
104.5	240.344	236.608	227.424	210.145	201.584
105.0	250.307	246.493	236.997	219.874	211.157
105.5	260.503	256.533	246.882	229.681	220.653
106.0	270.854	266.651	256.922	239.644	230.148
106.5	281.284	277.081	267.430	249.684	239.721
107.0	292.413	287.977	278.637	260.347	250.151
107.5	303.933	299.185	290.001	271.632	261.436
108.0	315.374	310.704	301.598	283.852	273.033
108.5	327.438	322.456	313.195	296.072	285.019
109.0	339.813	334.443	325.103	308.447	297.161
109.5	352.500	346.896	337.634	320.744	309.459
110.0	366.042	359.660	350.476	333.353	322.301
110.5	379.896	372.736	363.629	346.896	335.610

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111.0	393.906	386.434	377.250	360.983	348.997
111.5	408.227	400.522	391.104	375.304	362.773
112.0	423.093	414.998	404.880	389.625	375.927
112.5	438.036	429.864	418.812	403.868	389.859
113.0	453.681	445.197	433.522	418.579	404.413
113.5	469.792	461.230	449.089	434.456	420.057
114.0	486.136	477.575	465.589	451.346	437.414
114.5	503.026	494.464	482.401	468.936	455.860
115.0	520.149	511.821	499.835	486.681	474.540
115.5	538.050	529.333	517.736	504.349	492.986
116.0	556.107	547.546	536.260	522.951	511.743
116.5	575.176	566.225	555.407	542.020	531.746
117.0	595.023	585.294	574.709	562.567	552.371
117.5	609.655	600.160	592.377	581.480	573.308
118.0	628.335	617.516	610.511	601.016	591.910
118.5	650.050	638.219	629.035	619.151	608.643
119.0	671.298	658.611	650.050	639.698	627.245
119.5	692.779	680.326	672.310	660.557	648.104
120.0	714.961	702.820	694.647	683.362	670.130
120.5	736.988	725.624	717.686	707.567	693.636
121.0	760.104	748.896	740.879	731.695	718.620
121.5	782.986	771.934	763.995	756.134	743.059
122.0	807.114	795.439	788.435	780.651	767.576
122.5	830.464	818.789	812.562	804.779	790.769
123.0	854.591	843.695	837.468	831.242	816.454
123.5	879.498	868.601	863.931	857.705	842.917
124.0	904.404	894.286	889.616	884.167	870.158
124.5	929.310	919.192	915.300	909.852	896.621
125.0	954.216	944.098	940.206	935.536	922.305
125.5	979.900	969.782	965.891	961.221	947.211
126.0	1004.807	994.688	992.353	986.905	972.117
126.5	1029.713	1019.595	1018.816	1014.146	998.580
127.0	1055.397	1045.279	1045.279	1041.387	1026.599
127.5	1081.082	1070.185	1070.185	1067.850	1054.619
128.0	1105.988	1095.091	1095.870	1094.313	1081.082
128.5	1130.894	1119.219	1120.776	1120.776	1106.766
129.0	1155.800	1143.347	1145.682	1146.460	1133.229
129.5	1180.706	1168.253	1171.366	1172.923	1160.470
130.0	1205.612	1193.159	1197.051	1199.386	1189.268
130.5	1230.518	1217.287	1223.513	1225.070	1216.509
131.0	1255.424	1241.415	1248.420	1249.976	1241.415
131.5	1278.774	1264.764	1273.326	1273.326	1265.543
132.0	1302.902	1288.114	1297.453	1298.232	1288.892
132.5	1326.251	1312.242	1321.581	1322.360	1312.242
133.0	1349.601	1336.369	1344.931	1346.487	1334.813
133.5	1372.950	1359.719	1369.059	1370.615	1358.940
134.0	1396.300	1382.290	1391.630	1393.965	1382.290
134.5	1417.314	1404.861	1413.423	1414.979	1404.861
135.0	1438.329	1426.654	1434.437	1435.994	1425.097
135.5	1458.565	1449.225	1455.452	1456.230	1445.334
136.0	1478.801	1470.240	1474.910	1477.245	1466.348
136.5	1499.816	1490.476	1494.368	1498.259	1488.141
137.0	1519.274	1510.712	1514.604	1517.717	1508.377
137.5	1538.732	1529.392	1533.283	1535.618	1526.279
138.0	1557.411	1548.071	1551.185	1552.741	1543.401
138.5	1576.091	1565.973	1569.086	1569.864	1559.746

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L15-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1593.992	1583.874	1586.987	1586.987	1576.091
139.5	1611.893	1601.775	1604.110	1603.332	1591.657
140.0	1629.016	1618.120	1621.233	1620.455	1608.780
140.5	1645.361	1633.686	1636.799	1636.021	1623.568
141.0	1661.706	1650.031	1652.366	1650.809	1638.356
141.5	1676.494	1664.819	1667.932	1665.597	1651.587
142.0	1692.060	1680.385	1682.720	1679.607	1665.597
142.5	1706.848	1695.173	1697.508	1694.395	1678.829
143.0	1721.636	1709.183	1711.518	1708.405	1692.838
143.5	1735.646	1723.971	1725.528	1722.414	1706.070
144.0	1748.877	1737.981	1738.759	1734.867	1718.523
144.5	1762.108	1751.212	1751.990	1747.320	1730.976
145.0	1774.561	1764.443	1764.443	1758.995	1742.650
145.5	1787.793	1777.675	1776.896	1772.227	1755.104
146.0	1800.246	1790.128	1789.349	1783.901	1767.557
146.5	1812.699	1802.581	1801.024	1796.354	1780.010
147.0	1824.374	1815.034	1811.921	1808.807	1792.463
147.5	1836.048	1826.709	1823.595	1820.482	1804.137
148.0	1847.723	1838.383	1833.714	1831.379	1816.591
148.5	1859.398	1850.058	1843.832	1842.275	1829.044
149.0	1870.294	1861.733	1853.950	1853.171	1841.497
149.5	1881.191	1872.629	1863.290	1864.068	1853.171
150.0	1892.087	1883.526	1873.408	1874.186	1864.068
150.5	1902.984	1894.422	1882.747	1883.526	1874.964
151.0	1913.102	1904.540	1892.087	1892.866	1885.082
151.5	1923.998	1914.658	1902.205	1902.205	1894.422
152.0	1934.116	1924.777	1911.545	1910.767	1903.762
152.5	1944.234	1934.116	1920.885	1920.107	1912.323
153.0	1954.353	1943.456	1930.225	1929.446	1920.107
153.5	1963.692	1952.796	1939.565	1938.786	1927.111
154.0	1973.032	1962.136	1949.683	1948.126	1934.895
154.5	1983.150	1970.697	1959.022	1956.688	1942.678
155.0	1992.490	1979.259	1968.362	1966.027	1951.239
155.5	2001.052	1987.042	1977.702	1975.367	1959.801
156.0	2009.613	1995.603	1987.820	1983.929	1968.362
156.5	2018.175	2004.165	1997.160	1993.268	1976.924
157.0	2026.736	2012.726	2006.500	2002.608	1985.485
157.5	2034.519	2020.509	2015.061	2011.170	1994.047
158.0	2042.302	2028.293	2023.623	2019.731	2002.608
158.5	2050.864	2036.854	2032.184	2028.293	2011.948
159.0	2057.869	2044.637	2039.967	2036.854	2020.509
159.5	2065.652	2052.420	2047.751	2045.416	2029.071
160.0	2072.657	2059.425	2055.534	2053.199	2037.632
160.5	2079.662	2066.430	2062.539	2060.982	2046.194
161.0	2086.666	2073.435	2069.543	2068.765	2054.755
161.5	2093.671	2081.218	2075.770	2076.548	2063.317
162.0	2101.454	2088.223	2081.996	2084.331	2071.100
162.5	2108.459	2095.228	2088.223	2091.336	2078.105
163.0	2115.464	2102.233	2094.450	2098.341	2085.110
163.5	2122.469	2108.459	2100.676	2105.346	2091.336
164.0	2129.474	2114.686	2106.124	2111.572	2097.563
164.5	2134.922	2120.912	2111.572	2117.799	2103.789
165.0	2141.149	2127.139	2117.021	2124.026	2109.238
165.5	2147.375	2132.587	2122.469	2129.474	2114.686
166.0	2153.602	2138.035	2127.917	2134.922	2119.356
166.5	2159.828	2143.483	2133.365	2139.592	2124.804

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L15-840D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2165.276	2148.153	2138.035	2144.262	2129.474
167.5	2170.725	2152.823	2143.483	2148.932	2134.922
168.0	2176.173	2157.493	2148.153	2153.602	2139.592
168.5	2181.621	2162.163	2152.823	2158.271	2145.040
169.0	2186.291	2166.055	2157.493	2162.163	2149.710
169.5	2190.182	2169.946	2161.385	2166.055	2154.380
170.0	2194.074	2173.838	2165.276	2169.946	2159.828
170.5	2197.966	2177.729	2168.390	2173.838	2163.720
171.0	2201.857	2180.843	2171.503	2177.729	2167.611
171.5	2204.970	2183.956	2174.616	2181.621	2171.503
172.0	2208.084	2187.069	2176.951	2184.734	2174.616
172.5	2211.197	2190.182	2179.286	2187.069	2176.951
173.0	2214.310	2193.296	2181.621	2190.182	2178.508
173.5	2216.645	2195.631	2183.956	2191.739	2180.064
174.0	2218.980	2197.966	2186.291	2193.296	2180.843
174.5	2220.537	2199.522	2187.847	2194.852	2181.621
175.0	2222.093	2201.857	2189.404	2195.631	2181.621
175.5	2223.650	2203.414	2191.739	2196.409	2182.399
176.0	2225.207	2204.970	2193.296	2196.409	2182.399
176.5	2225.985	2206.527	2194.074	2197.187	2182.399
177.0	2226.763	2208.084	2195.631	2197.187	2181.621
177.5	2228.320	2209.640	2197.187	2197.187	2181.621
178.0	2229.098	2209.640	2197.966	2197.187	2182.399
178.5	2229.098	2210.419	2198.744	2197.187	2182.399
179.0	2229.877	2211.197	2198.744	2197.187	2182.399
179.5	2230.655	2211.197	2199.522	2197.187	2182.399
180.0	2203.414	2203.414	2203.414	2203.414	2203.414



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L15-840D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	808.95	N.A.	7.10
0-30	1691.24	N.A.	14.90
0-40	2717.00	N.A.	24.00
0-60	4616.79	N.A.	40.70
0-80	5653.77	N.A.	49.90
0-90	5763.34	N.A.	50.80
10-90	5552.19	N.A.	49.00
20-40	1908.05	N.A.	16.80
20-50	2926.32	N.A.	25.80
40-70	2560.03	N.A.	22.60
60-80	1036.99	N.A.	9.10
70-80	376.75	N.A.	3.30
80-90	109.57	N.A.	1.00
90-110	318.87	N.A.	2.80
90-120	818.57	N.A.	7.20
90-130	1658.3	N.A.	14.60
90-150	3857.07	N.A.	34.00
90-180	5574.49	N.A.	49.20
110-180	5255.61	N.A.	46.40
0-180	11337.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.15
10-20	597.80
20-30	882.29
30-40	1025.76
40-50	1018.27
50-60	881.52
60-70	660.24
70-80	376.75
80-90	109.57
90-100	68.78
100-110	250.10
110-120	499.70
120-130	839.72
130-140	1098.01
140-150	1100.76
150-160	909.28
160-170	599.18
170-180	208.95

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L15-840D-F-F-DIM-UNV\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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 : MX4UDC-4-00-L12-840U-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	17.3	18.2	18.3	19.2	20.4	UGR Viewed Endwise	17.2	18.1	18.2	19.1	20.3
	3H	19.1	19.9	20.1	20.9	22.1	19.0	19.8	20.0	20.8	22.0	
	4H	19.7	20.5	20.7	21.4	22.7	19.6	20.4	20.6	21.4	22.6	
	6H	20.1	20.8	21.1	21.8	23.1	20.1	20.8	21.1	21.8	23.1	
	8H	20.3	20.9	21.3	21.9	23.2	20.2	20.9	21.2	21.9	23.2	
	12H	20.4	21.0	21.4	22.0	23.3	20.3	21.0	21.3	22.0	23.3	

4H	2H	17.9	18.6	18.8	19.6	20.9	17.8	18.5	18.8	19.5	20.8	
	3H	19.8	20.5	20.8	21.5	22.8	19.8	20.4	20.8	21.4	22.7	
	4H	20.6	21.1	21.6	22.1	23.5	20.5	21.1	21.5	22.1	23.4	
	6H	21.1	21.6	22.1	22.6	24.0	21.1	21.6	22.1	22.6	23.9	
	8H	21.3	21.8	22.3	22.8	24.1	21.3	21.8	22.3	22.8	24.1	
	12H	21.4	21.8	22.4	22.9	24.2	21.4	21.9	22.5	22.9	24.2	

8H	4H	20.8	21.3	21.8	22.3	23.6	20.8	21.2	21.8	22.2	23.6	
	6H	21.5	21.9	22.5	22.9	24.3	21.5	21.9	22.5	22.9	24.3	
	8H	21.8	22.1	22.8	23.1	24.5	21.8	22.1	22.8	23.2	24.5	
	12H	22.0	22.3	23.0	23.3	24.7	22.0	22.3	23.0	23.3	24.7	

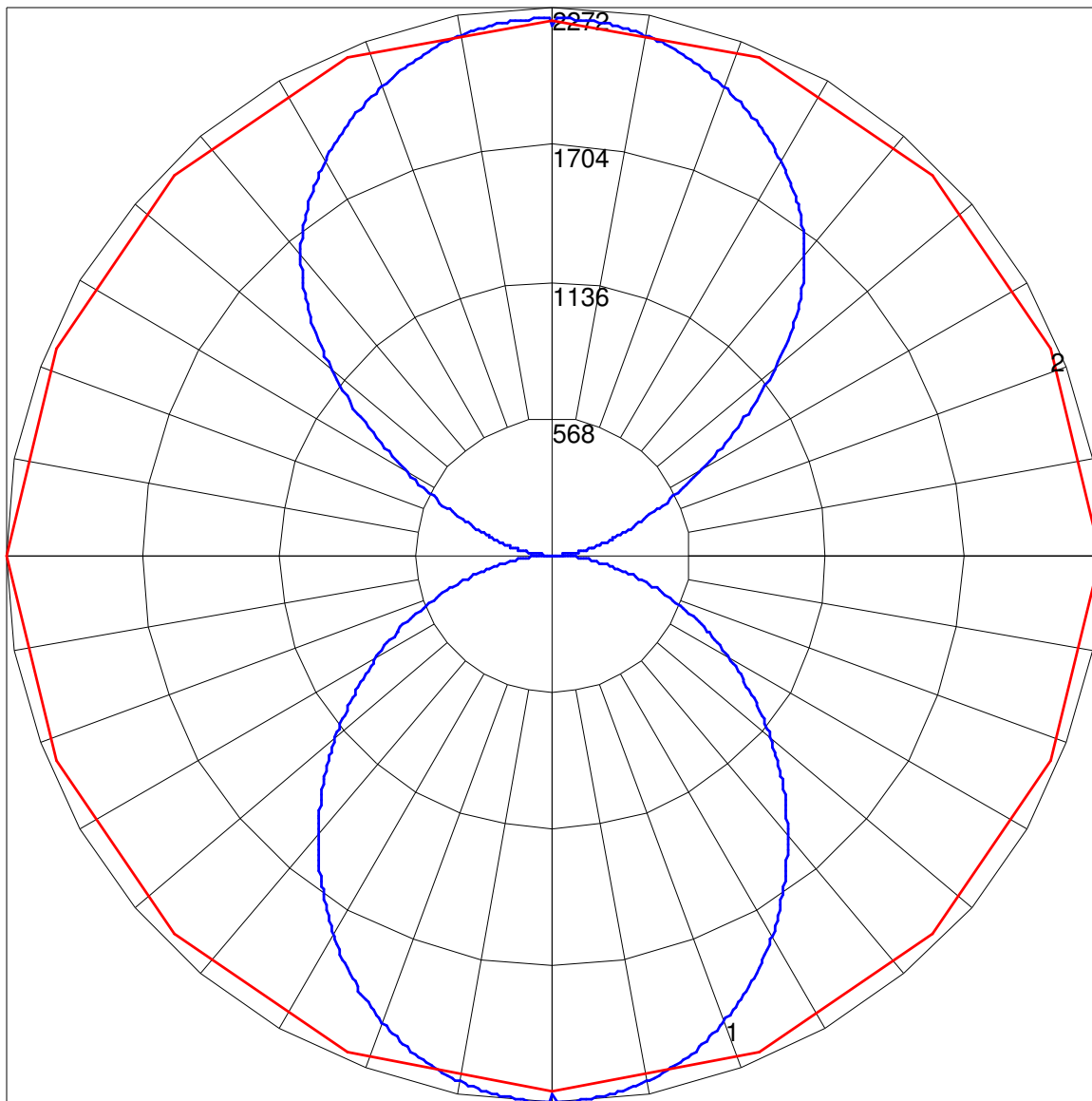
12H	4H	20.8	21.2	21.8	22.3	23.6	20.8	21.2	21.8	22.2	23.6	
	6H	21.6	21.9	22.6	22.9	24.3	21.5	21.9	22.6	22.9	24.3	
	8H	21.8	22.1	22.9	23.2	24.6	21.9	22.2	22.9	23.2	24.6	

Maximum UGR = 24.7

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L15-840D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2272.141 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.)