

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L12-840D-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-L12-840D-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	10202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	81.9
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	13880	13533	13379
55	12760	12450	12320
65	11769	11485	11360
75	9980	9975	9969
85	7794	8108	8342

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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	2014.060	2014.060	2014.060	2014.060	2014.060
0.5	2044.473	2015.749	2005.611	2009.836	2003.077
1.0	2044.473	2014.905	2005.611	2009.836	2003.077
1.5	2043.629	2014.060	2004.767	2009.836	2002.232
2.0	2042.784	2013.215	2003.922	2008.991	2002.232
2.5	2041.939	2012.370	2002.232	2008.146	2001.387
3.0	2040.249	2010.680	2001.387	2007.301	1999.698
3.5	2038.560	2008.991	1999.698	2005.611	1998.008
4.0	2036.870	2007.301	1998.008	2003.922	1996.318
4.5	2035.180	2004.767	1996.318	2002.232	1993.784
5.0	2033.491	2003.077	1993.784	1999.698	1991.249
5.5	2030.956	2000.543	1991.249	1997.163	1988.715
6.0	2028.422	1997.163	1988.715	1994.629	1985.336
6.5	2025.042	1994.629	1985.336	1991.249	1982.801
7.0	2022.508	1991.249	1982.801	1987.870	1979.422
7.5	2019.973	1987.870	1979.422	1984.491	1976.887
8.0	2015.749	1984.491	1975.198	1981.112	1973.508
8.5	2012.370	1980.267	1970.974	1976.887	1969.284
9.0	2008.146	1976.887	1967.594	1972.663	1965.060
9.5	2003.922	1972.663	1962.525	1967.594	1960.836
10.0	1999.698	1968.439	1958.301	1963.370	1955.767
10.5	1994.629	1963.370	1953.232	1958.301	1951.543
11.0	1990.405	1958.301	1948.163	1953.232	1945.629
11.5	1984.491	1953.232	1943.095	1948.163	1940.560
12.0	1979.422	1948.163	1938.026	1942.250	1934.646
12.5	1974.353	1942.250	1932.112	1936.336	1928.733
13.0	1968.439	1937.181	1926.198	1930.422	1922.819
13.5	1962.525	1930.422	1920.284	1923.664	1916.905
14.0	1956.612	1924.508	1913.526	1917.750	1910.991
14.5	1950.698	1918.595	1906.767	1910.991	1904.233
15.0	1944.784	1911.836	1900.009	1904.233	1897.474
15.5	1937.181	1905.922	1893.250	1896.629	1889.871
16.0	1928.733	1899.164	1885.647	1889.871	1883.112
16.5	1920.284	1891.560	1878.043	1882.267	1875.509
17.0	1912.681	1883.957	1870.440	1874.664	1867.905
17.5	1904.233	1875.509	1861.991	1866.216	1859.457
18.0	1895.784	1867.060	1853.543	1857.767	1851.009
18.5	1887.336	1858.612	1845.095	1848.474	1842.561
19.0	1878.888	1850.164	1837.492	1840.026	1832.423
19.5	1869.595	1841.716	1829.043	1829.888	1822.285
20.0	1861.147	1832.423	1821.440	1820.595	1812.147
20.5	1851.854	1823.974	1812.992	1810.457	1802.009
21.0	1842.561	1814.681	1803.699	1800.319	1791.026
21.5	1832.423	1805.388	1793.561	1790.181	1780.044
22.0	1823.130	1795.250	1782.578	1779.199	1769.906
22.5	1812.992	1785.112	1772.440	1768.216	1758.923
23.0	1802.854	1774.975	1762.302	1756.388	1747.940
23.5	1792.716	1764.837	1751.320	1745.406	1737.802
24.0	1781.733	1754.699	1741.182	1734.423	1726.820
24.5	1770.750	1743.716	1730.199	1723.440	1715.837
25.0	1760.613	1732.733	1719.216	1712.458	1704.854
25.5	1749.630	1721.751	1707.389	1701.475	1693.027
26.0	1737.802	1709.923	1696.406	1690.492	1682.044
26.5	1726.820	1698.940	1684.578	1679.510	1671.061

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

27.0	1714.992	1687.113	1672.751	1668.527	1659.234
27.5	1703.165	1675.285	1661.768	1657.544	1648.251
28.0	1691.337	1662.613	1649.096	1645.717	1636.424
28.5	1678.665	1649.941	1637.268	1634.734	1624.596
29.0	1665.992	1638.113	1625.441	1622.906	1612.768
29.5	1654.165	1625.441	1613.613	1610.234	1601.786
30.0	1641.492	1612.768	1601.786	1598.406	1589.958
30.5	1628.820	1600.096	1589.113	1586.579	1578.131
31.0	1615.303	1588.269	1576.441	1573.907	1566.303
31.5	1602.631	1575.596	1563.769	1561.234	1553.631
32.0	1589.113	1562.079	1551.096	1547.717	1540.958
32.5	1575.596	1549.407	1538.424	1535.045	1527.441
33.0	1562.079	1536.734	1525.752	1522.372	1513.924
33.5	1549.407	1523.217	1512.234	1508.855	1501.252
34.0	1535.045	1509.700	1499.562	1495.338	1487.735
34.5	1521.527	1496.183	1485.200	1481.821	1473.373
35.0	1508.010	1483.510	1471.683	1468.304	1459.011
35.5	1493.648	1469.148	1458.166	1454.786	1444.649
36.0	1479.286	1455.631	1444.649	1440.424	1431.131
36.5	1465.769	1442.114	1431.131	1426.907	1417.614
37.0	1451.407	1427.752	1416.769	1412.545	1403.252
37.5	1437.045	1413.390	1403.252	1398.183	1389.735
38.0	1421.838	1399.028	1388.890	1383.821	1375.373
38.5	1407.476	1384.666	1374.528	1370.304	1361.011
39.0	1393.959	1370.304	1360.166	1355.942	1347.494
39.5	1378.752	1355.942	1346.649	1341.580	1332.287
40.0	1364.390	1340.735	1332.287	1327.218	1318.770
40.5	1349.183	1326.373	1317.925	1312.856	1304.408
41.0	1334.821	1311.166	1303.563	1297.649	1289.201
41.5	1319.615	1296.804	1288.356	1283.287	1273.994
42.0	1305.253	1281.598	1273.994	1268.925	1259.632
42.5	1290.891	1267.236	1259.632	1253.718	1245.270
43.0	1275.684	1252.874	1245.270	1239.356	1230.063
43.5	1261.322	1237.667	1230.063	1224.994	1215.701
44.0	1246.115	1222.460	1214.856	1209.788	1201.339
44.5	1230.908	1207.253	1199.650	1194.581	1186.132
45.0	1215.701	1192.891	1185.288	1179.374	1171.770
45.5	1201.339	1177.684	1170.081	1165.012	1157.408
46.0	1186.132	1162.477	1154.874	1149.805	1143.046
46.5	1170.926	1147.271	1140.512	1135.443	1128.684
47.0	1155.719	1132.064	1125.305	1120.236	1113.478
47.5	1139.667	1116.857	1110.098	1105.029	1099.116
48.0	1124.460	1101.650	1094.892	1090.667	1083.909
48.5	1109.254	1086.443	1080.530	1075.461	1068.702
49.0	1093.202	1071.236	1065.323	1060.254	1054.340
49.5	1077.995	1056.030	1050.116	1045.892	1039.978
50.0	1061.943	1040.823	1034.909	1030.685	1024.771
50.5	1045.892	1025.616	1019.702	1015.478	1010.409
51.0	1029.840	1010.409	1004.495	1000.271	995.202
51.5	1014.633	995.202	989.289	985.909	979.995
52.0	999.426	979.995	974.082	970.702	965.633
52.5	983.375	964.789	958.875	956.340	950.427
53.0	968.168	949.582	943.668	941.134	935.220
53.5	952.116	934.375	928.461	925.927	920.013
54.0	936.909	919.168	914.099	911.565	904.806
54.5	921.703	904.806	898.892	896.358	889.599

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55.0	906.496	890.444	884.530	881.996	875.237
55.5	892.134	875.237	869.324	866.789	860.875
56.0	876.082	860.031	854.117	852.427	845.669
56.5	860.875	845.669	839.332	837.474	830.800
57.0	846.513	830.462	824.379	822.351	816.015
57.5	831.644	815.762	809.510	807.651	801.062
58.0	816.776	801.231	794.557	792.867	786.277
58.5	801.822	786.615	779.857	778.336	772.084
59.0	787.122	771.915	765.072	763.636	757.638
59.5	772.845	757.046	750.034	749.021	743.360
60.0	758.229	742.262	735.166	734.321	728.829
60.5	743.783	727.816	720.804	719.536	714.129
61.0	729.590	713.369	706.526	705.090	699.767
61.5	714.383	699.092	692.333	690.728	685.574
62.0	699.430	684.392	677.633	676.450	671.043
62.5	684.138	670.790	663.778	662.849	657.273
63.0	669.438	658.793	653.133	652.711	648.149
63.5	654.569	645.699	641.221	640.292	635.561
64.0	645.614	632.942	628.887	627.028	621.621
64.5	631.675	619.340	614.947	613.258	608.189
65.0	616.045	604.809	601.177	599.571	594.671
65.5	600.078	590.109	586.815	586.054	581.070
66.0	584.702	575.747	572.790	572.453	567.130
66.5	569.496	561.047	558.513	558.513	553.782
67.0	554.458	546.432	544.404	544.658	540.349
67.5	539.673	532.070	530.211	530.718	526.494
68.0	524.720	517.708	516.018	516.694	512.301
68.5	509.682	503.093	501.741	502.670	498.362
69.0	494.137	488.393	487.379	487.886	483.915
69.5	479.015	473.946	472.763	473.355	469.722
70.0	464.062	459.331	458.486	458.739	455.529
70.5	449.362	444.631	444.039	444.293	441.251
71.0	434.324	430.015	429.846	430.184	426.889
71.5	419.286	415.400	415.738	415.991	413.119
72.0	404.671	400.700	401.376	401.714	399.264
72.5	390.055	386.253	387.352	387.690	385.662
73.0	375.609	372.145	373.666	374.088	372.314
73.5	361.585	358.205	359.979	360.740	358.797
74.0	347.729	344.266	346.462	347.054	345.786
74.5	333.874	330.580	333.030	333.621	332.692
75.0	319.935	316.978	319.766	320.357	319.597
75.5	306.164	303.376	306.587	307.347	306.502
76.0	292.225	290.281	293.576	294.421	293.745
76.5	279.045	277.356	280.650	281.580	280.988
77.0	266.204	264.345	267.978	268.823	267.894
77.5	252.940	251.673	255.306	255.982	255.052
78.0	240.014	239.001	242.633	243.647	242.718
78.5	227.173	226.666	230.130	231.313	230.552
79.0	214.839	214.332	217.880	219.316	218.725
79.5	202.504	202.251	205.799	207.320	206.813
80.0	190.339	190.423	193.718	195.830	195.154
80.5	178.089	178.849	182.228	184.256	183.749
81.0	166.346	167.529	170.823	172.935	172.597
81.5	155.025	156.292	159.672	161.784	161.530
82.0	144.465	145.310	148.773	150.970	150.717
82.5	133.905	134.665	138.044	140.241	140.072

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83.0	123.344	124.527	127.484	129.765	129.934
83.5	112.953	114.389	117.261	119.458	119.965
84.0	103.237	104.420	107.124	109.236	109.996
84.5	93.353	94.620	97.155	99.267	100.027
85.0	84.144	85.158	87.524	89.382	90.058
85.5	75.189	75.696	77.724	79.667	80.343
86.0	66.403	66.572	68.346	70.120	70.965
86.5	57.701	57.701	59.307	60.912	61.672
87.0	48.915	48.915	50.098	52.126	52.717
87.5	40.214	40.298	41.396	43.424	44.184
88.0	31.934	31.850	32.948	35.145	35.990
88.5	23.993	23.486	24.922	26.865	28.048
89.0	15.545	15.291	17.234	19.093	20.360
89.5	7.181	8.533	10.307	11.743	12.165
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.182	2.731	2.521	2.451	2.661
91.0	11.415	6.023	4.902	4.832	4.762
91.5	18.349	12.256	7.283	7.213	7.143
92.0	25.352	20.380	10.505	9.384	9.384
92.5	32.635	28.784	16.248	11.766	11.555
93.0	40.199	36.837	22.971	15.617	14.077
93.5	47.832	44.541	30.184	21.080	18.349
94.0	55.326	52.104	38.168	27.593	24.161
94.5	63.030	59.668	46.502	34.316	30.464
95.0	70.593	67.442	54.696	41.179	36.697
95.5	78.157	74.725	62.679	48.253	43.280
96.0	85.370	82.149	70.523	55.606	50.004
96.5	92.654	89.572	78.367	63.100	56.937
97.0	99.727	96.856	86.141	70.593	64.290
97.5	107.010	104.209	93.984	78.227	71.644
98.0	114.224	111.422	101.618	85.790	79.067
98.5	121.437	118.706	108.971	93.494	86.491
99.0	128.791	126.199	116.465	100.847	93.984
99.5	136.214	133.623	124.028	108.201	101.338
100.0	143.497	141.116	131.592	115.764	108.551
100.5	151.061	148.610	139.155	123.608	115.834
101.0	158.835	156.103	146.859	131.522	123.748
101.5	166.748	163.737	154.703	139.436	131.942
102.0	174.452	171.651	162.546	147.349	140.066
102.5	182.506	179.494	170.670	155.263	148.120
103.0	190.770	187.618	178.724	163.107	156.313
103.5	199.034	195.882	187.268	171.511	164.437
104.0	207.508	204.216	195.952	180.195	172.911
104.5	216.262	212.900	204.636	189.089	181.385
105.0	225.226	221.794	213.250	197.843	189.999
105.5	234.400	230.829	222.144	206.667	198.543
106.0	243.715	239.933	231.179	215.631	207.087
106.5	253.099	249.317	240.633	224.666	215.701
107.0	263.114	259.122	250.718	234.260	225.086
107.5	273.479	269.207	260.943	244.415	235.241
108.0	283.773	279.571	271.378	255.410	245.676
108.5	294.629	290.146	281.813	266.405	256.461
109.0	305.764	300.931	292.528	277.540	267.386
109.5	317.179	312.137	303.803	288.606	278.451
110.0	329.365	323.622	315.358	299.951	290.006
110.5	341.831	335.388	327.194	312.137	301.982

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111.0	354.437	347.713	339.450	324.813	314.028
111.5	367.323	360.389	351.915	337.699	326.423
112.0	380.699	373.416	364.311	350.585	338.259
112.5	394.145	386.792	376.847	363.401	350.795
113.0	408.222	400.588	390.083	376.637	363.891
113.5	422.719	415.015	404.090	390.924	377.968
114.0	437.426	429.722	418.937	406.121	393.585
114.5	452.623	444.919	434.064	421.948	410.183
115.0	468.030	460.537	449.751	437.916	426.991
115.5	484.138	476.294	465.859	453.813	443.589
116.0	500.385	492.682	482.527	470.551	460.467
116.5	517.543	509.490	499.755	487.709	478.465
117.0	535.402	526.648	517.123	506.198	497.024
117.5	548.568	540.024	533.021	523.216	515.863
118.0	565.376	555.641	549.338	540.794	532.600
118.5	584.915	574.270	566.006	557.112	547.658
119.0	604.034	592.619	584.915	575.601	564.395
119.5	623.363	612.158	604.944	594.369	583.164
120.0	643.322	632.397	625.044	614.889	602.984
120.5	663.142	652.917	645.774	636.669	624.133
121.0	683.942	673.857	666.643	658.380	646.614
121.5	704.531	694.587	687.443	680.370	668.604
122.0	726.241	715.737	709.434	702.430	690.665
122.5	747.251	736.746	731.144	724.140	711.535
123.0	768.962	759.157	753.554	747.952	734.645
123.5	791.372	781.567	777.366	771.763	758.457
124.0	813.783	804.678	800.476	795.574	782.968
124.5	836.193	827.089	823.587	818.685	806.779
125.0	858.604	849.499	845.998	841.796	829.890
125.5	881.715	872.610	869.109	864.907	852.301
126.0	904.125	895.021	892.920	888.018	874.711
126.5	926.536	917.431	916.731	912.529	898.522
127.0	949.647	940.542	940.542	937.041	923.734
127.5	972.757	962.953	962.953	960.852	948.946
128.0	995.168	985.363	986.064	984.663	972.757
128.5	1017.578	1007.074	1008.474	1008.474	995.868
129.0	1039.989	1028.784	1030.885	1031.585	1019.679
129.5	1062.400	1051.194	1053.996	1055.396	1044.191
130.0	1084.810	1073.605	1077.106	1079.207	1070.103
130.5	1107.221	1095.315	1100.918	1102.318	1094.615
131.0	1129.631	1117.025	1123.328	1124.729	1117.025
131.5	1150.641	1138.035	1145.739	1145.739	1138.735
132.0	1172.351	1159.045	1167.449	1168.149	1159.745
132.5	1193.361	1180.755	1189.159	1189.859	1180.755
133.0	1214.371	1202.465	1210.169	1211.570	1201.065
133.5	1235.381	1223.475	1231.879	1233.280	1222.775
134.0	1256.391	1243.785	1252.189	1254.290	1243.785
134.5	1275.300	1264.094	1271.798	1273.199	1264.094
135.0	1294.209	1283.704	1290.707	1292.108	1282.303
135.5	1312.417	1304.013	1309.616	1310.316	1300.511
136.0	1330.626	1322.922	1327.124	1329.225	1319.420
136.5	1349.535	1341.131	1344.632	1348.134	1339.030
137.0	1367.043	1359.339	1362.841	1365.642	1357.238
137.5	1384.551	1376.147	1379.649	1381.750	1373.346
138.0	1401.359	1392.955	1395.756	1397.157	1388.753
138.5	1418.167	1409.063	1411.864	1412.564	1403.460

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

139.0	1434.274	1425.170	1427.971	1427.971	1418.167
139.5	1450.382	1441.278	1443.379	1442.678	1432.173
140.0	1465.789	1455.985	1458.786	1458.086	1447.581
140.5	1480.496	1469.991	1472.793	1472.092	1460.887
141.0	1495.203	1484.698	1486.799	1485.398	1474.193
141.5	1508.509	1498.004	1500.806	1498.705	1486.099
142.0	1522.516	1512.011	1514.112	1511.311	1498.705
142.5	1535.822	1525.317	1527.418	1524.617	1510.610
143.0	1549.128	1537.923	1540.024	1537.223	1523.216
143.5	1561.734	1551.229	1552.630	1549.829	1535.122
144.0	1573.640	1563.835	1564.536	1561.034	1546.327
144.5	1585.546	1575.741	1576.441	1572.239	1557.532
145.0	1596.751	1587.647	1587.647	1582.744	1568.037
145.5	1608.656	1599.552	1598.852	1594.650	1579.243
146.0	1619.862	1610.757	1610.057	1605.155	1590.448
146.5	1631.067	1621.963	1620.562	1616.360	1601.653
147.0	1641.572	1633.168	1630.367	1627.565	1612.858
147.5	1652.077	1643.673	1640.872	1638.070	1623.363
148.0	1662.582	1654.178	1649.976	1647.875	1634.569
148.5	1673.087	1664.683	1659.080	1657.679	1645.774
149.0	1682.891	1675.188	1668.184	1667.484	1656.979
149.5	1692.696	1684.992	1676.588	1677.289	1667.484
150.0	1702.501	1694.797	1685.693	1686.393	1677.289
150.5	1712.305	1704.602	1694.097	1694.797	1687.093
151.0	1721.409	1713.706	1702.501	1703.201	1696.198
151.5	1731.214	1722.810	1711.605	1711.605	1704.602
152.0	1740.318	1731.914	1720.009	1719.308	1713.005
152.5	1749.423	1740.318	1728.413	1727.712	1720.709
153.0	1758.527	1748.722	1736.817	1736.116	1727.712
153.5	1766.931	1757.126	1745.221	1744.520	1734.015
154.0	1775.335	1765.530	1754.325	1752.924	1741.019
154.5	1784.439	1773.234	1762.729	1760.628	1748.022
155.0	1792.843	1780.937	1771.133	1769.032	1755.726
155.5	1800.547	1787.941	1779.537	1777.436	1763.429
156.0	1808.250	1795.644	1788.641	1785.139	1771.133
156.5	1815.954	1803.348	1797.045	1793.543	1778.836
157.0	1823.657	1811.052	1805.449	1801.947	1786.540
157.5	1830.661	1818.055	1813.153	1809.651	1794.244
158.0	1837.664	1825.058	1820.856	1817.355	1801.947
158.5	1845.368	1832.762	1828.560	1825.058	1810.351
159.0	1851.671	1839.765	1835.563	1832.762	1818.055
159.5	1858.674	1846.768	1842.566	1840.465	1825.758
160.0	1864.977	1853.071	1849.570	1847.469	1833.462
160.5	1871.280	1859.374	1855.873	1854.472	1841.166
161.0	1877.583	1865.677	1862.176	1861.475	1848.869
161.5	1883.886	1872.681	1867.778	1868.479	1856.573
162.0	1890.889	1878.983	1873.381	1875.482	1863.576
162.5	1897.192	1885.286	1878.983	1881.785	1869.879
163.0	1903.495	1891.589	1884.586	1888.088	1876.182
163.5	1909.798	1897.192	1890.189	1894.391	1881.785
164.0	1916.101	1902.795	1895.091	1899.993	1887.387
164.5	1921.003	1908.397	1899.993	1905.596	1892.990
165.0	1926.606	1914.000	1904.896	1911.199	1897.892
165.5	1932.209	1918.902	1909.798	1916.101	1902.795
166.0	1937.811	1923.805	1914.700	1921.003	1906.997
166.5	1943.414	1928.707	1919.603	1925.205	1911.899

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

167.0	1948.316	1932.909	1923.805	1929.407	1916.101
167.5	1953.218	1937.111	1928.707	1933.609	1921.003
168.0	1958.121	1941.313	1932.909	1937.811	1925.205
168.5	1963.023	1945.515	1937.111	1942.013	1930.108
169.0	1967.225	1949.016	1941.313	1945.515	1934.310
169.5	1970.727	1952.518	1944.814	1949.016	1938.511
170.0	1974.228	1956.020	1948.316	1952.518	1943.414
170.5	1977.730	1959.521	1951.117	1956.020	1946.915
171.0	1981.232	1962.323	1953.919	1959.521	1950.417
171.5	1984.033	1965.124	1956.720	1963.023	1953.919
172.0	1986.834	1967.925	1958.821	1965.824	1956.720
172.5	1989.636	1970.727	1960.922	1967.925	1958.821
173.0	1992.437	1973.528	1963.023	1970.727	1960.222
173.5	1994.538	1975.629	1965.124	1972.127	1961.622
174.0	1996.639	1977.730	1967.225	1973.528	1962.323
174.5	1998.039	1979.131	1968.626	1974.929	1963.023
175.0	1999.440	1981.232	1970.026	1975.629	1963.023
175.5	2000.841	1982.632	1972.127	1976.329	1963.723
176.0	2002.241	1984.033	1973.528	1976.329	1963.723
176.5	2002.942	1985.434	1974.228	1977.030	1963.723
177.0	2003.642	1986.834	1975.629	1977.030	1963.023
177.5	2005.043	1988.235	1977.030	1977.030	1963.023
178.0	2005.743	1988.235	1977.730	1977.030	1963.723
178.5	2005.743	1988.935	1978.430	1977.030	1963.723
179.0	2006.443	1989.636	1978.430	1977.030	1963.723
179.5	2007.144	1989.636	1979.131	1977.030	1963.723
180.0	1982.632	1982.632	1982.632	1982.632	1982.632

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

Zone	Lumens	%Lamp	%Fixt
0-20	727.89	N.A.	7.10
0-30	1521.78	N.A.	14.90
0-40	2444.75	N.A.	24.00
0-60	4154.19	N.A.	40.70
0-80	5087.27	N.A.	49.90
0-90	5185.86	N.A.	50.80
10-90	4995.86	N.A.	49.00
20-40	1716.86	N.A.	16.80
20-50	2633.1	N.A.	25.80
40-70	2303.52	N.A.	22.60
60-80	933.08	N.A.	9.10
70-80	339.00	N.A.	3.30
80-90	98.59	N.A.	1.00
90-110	286.92	N.A.	2.80
90-120	736.55	N.A.	7.20
90-130	1492.14	N.A.	14.60
90-150	3470.59	N.A.	34.00
90-180	5015.93	N.A.	49.20
110-180	4729.00	N.A.	46.40
0-180	10201.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.99
10-20	537.90
20-30	793.88
30-40	922.98
40-50	916.24
50-60	793.19
60-70	594.08
70-80	339.00
80-90	98.59
90-100	61.89
100-110	225.04
110-120	449.63
120-130	755.58
130-140	987.99
140-150	990.46
150-160	818.17
160-170	539.14
170-180	188.02

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L12-840D-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	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-L12-840D-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	17.0	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	20.6	21.8	18.7	19.5	19.7	20.5	21.7
	4H	19.4	20.2	20.4	21.1	22.4	19.3	20.1	20.3	21.1	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	20.1	20.7	21.1	21.7	23.0	20.0	20.7	21.0	21.7	23.0

UGR Viewed Endwise

4H	2H	17.6	18.3	18.5	19.3	20.6	17.5	18.2	18.5	19.2	20.5
	3H	19.5	20.2	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	23.6
	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	22.1	22.6	23.9	21.1	21.6	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	22.0	22.7	23.0	24.4	21.7	22.0	22.7	23.0	24.4

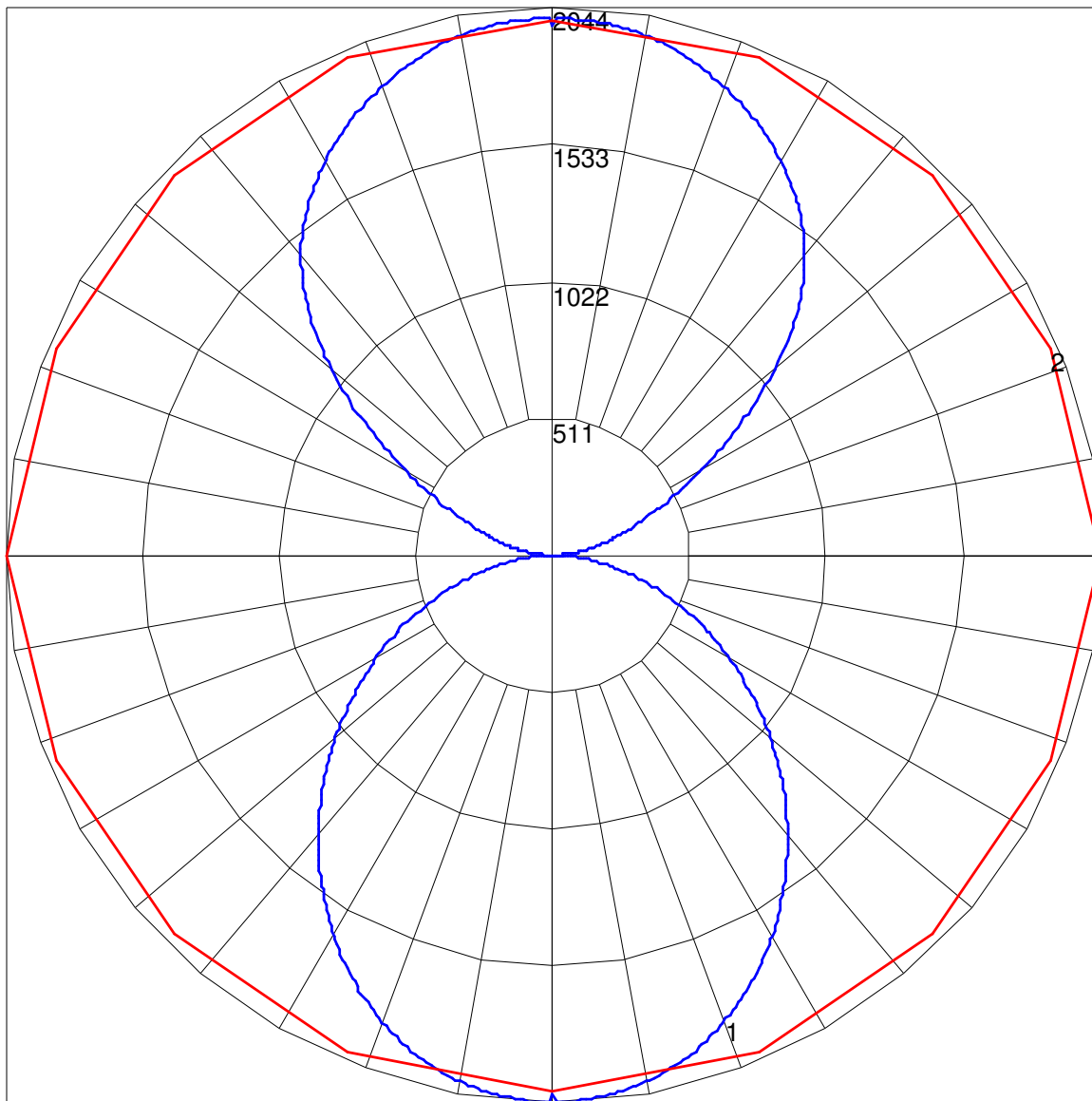
12H	4H	20.5	20.9	21.5	22.0	23.3	20.5	20.9	21.5	21.9	23.3
	6H	21.3	21.6	22.3	22.6	24.0	21.2	21.6	22.3	22.6	24.0
	8H	21.5	21.8	22.6	22.9	24.3	21.6	21.9	22.6	22.9	24.3

Maximum UGR = 24.4

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-840U-L12-840D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2044.473 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.)