

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-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] MX4UDC-4-00-L15-850U-L8-850D-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	10034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	78.9
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	13484	13147	12997
55	12395	12095	11968
65	11433	11157	11036
75	9695	9690	9685
85	7572	7876	8104

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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	1956.565	1956.565	1956.565	1956.565	1956.565
0.5	1986.110	1958.206	1948.358	1952.461	1945.896
1.0	1986.110	1957.386	1948.358	1952.461	1945.896
1.5	1985.290	1956.565	1947.537	1952.461	1945.075
2.0	1984.469	1955.744	1946.716	1951.641	1945.075
2.5	1983.648	1954.923	1945.075	1950.820	1944.254
3.0	1982.007	1953.282	1944.254	1949.999	1942.613
3.5	1980.365	1951.641	1942.613	1948.358	1940.971
4.0	1978.724	1949.999	1940.971	1946.716	1939.330
4.5	1977.083	1947.537	1939.330	1945.075	1936.868
5.0	1975.441	1945.896	1936.868	1942.613	1934.406
5.5	1972.979	1943.434	1934.406	1940.151	1931.944
6.0	1970.517	1940.151	1931.944	1937.689	1928.661
6.5	1967.234	1937.689	1928.661	1934.406	1926.199
7.0	1964.772	1934.406	1926.199	1931.123	1922.916
7.5	1962.310	1931.123	1922.916	1927.840	1920.454
8.0	1958.206	1927.840	1918.812	1924.557	1917.171
8.5	1954.923	1923.737	1914.709	1920.454	1913.067
9.0	1950.820	1920.454	1911.426	1916.350	1908.964
9.5	1946.716	1916.350	1906.502	1911.426	1904.860
10.0	1942.613	1912.247	1902.398	1907.322	1899.936
10.5	1937.689	1907.322	1897.474	1902.398	1895.833
11.0	1933.585	1902.398	1892.550	1897.474	1890.088
11.5	1927.840	1897.474	1887.625	1892.550	1885.163
12.0	1922.916	1892.550	1882.701	1886.805	1879.418
12.5	1917.992	1886.805	1876.956	1881.060	1873.673
13.0	1912.247	1881.881	1871.211	1875.315	1867.929
13.5	1906.502	1875.315	1865.466	1868.749	1862.184
14.0	1900.757	1869.570	1858.901	1863.004	1856.439
14.5	1895.012	1863.825	1852.335	1856.439	1849.873
15.0	1889.267	1857.259	1845.769	1849.873	1843.307
15.5	1881.881	1851.514	1839.204	1842.487	1835.921
16.0	1873.673	1844.949	1831.817	1835.921	1829.355
16.5	1865.466	1837.562	1824.431	1828.535	1821.969
17.0	1858.080	1830.176	1817.045	1821.148	1814.583
17.5	1849.873	1821.969	1808.838	1812.941	1806.376
18.0	1841.666	1813.762	1800.631	1804.734	1798.168
18.5	1833.459	1805.555	1792.423	1795.706	1789.961
19.0	1825.252	1797.348	1785.037	1787.499	1780.113
19.5	1816.224	1789.141	1776.830	1777.651	1770.264
20.0	1808.017	1780.113	1769.444	1768.623	1760.416
20.5	1798.989	1771.906	1761.237	1758.775	1750.567
21.0	1789.961	1762.878	1752.209	1748.926	1739.898
21.5	1780.113	1753.850	1742.360	1739.078	1729.229
22.0	1771.085	1744.002	1731.691	1728.408	1719.381
22.5	1761.237	1734.153	1721.843	1717.739	1708.711
23.0	1751.388	1724.305	1711.994	1706.249	1698.042
23.5	1741.540	1714.456	1701.325	1695.580	1688.194
24.0	1730.870	1704.608	1691.477	1684.911	1677.525
24.5	1720.201	1693.939	1680.807	1674.242	1666.855
25.0	1710.353	1683.269	1670.138	1663.573	1656.186
25.5	1699.684	1672.600	1658.648	1652.903	1644.696
26.0	1688.194	1661.110	1647.979	1642.234	1634.027
26.5	1677.525	1650.441	1636.489	1631.565	1623.358

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1666.035	1638.951	1624.999	1620.896	1611.868
27.5	1654.545	1627.461	1614.330	1610.227	1601.199
28.0	1643.055	1615.151	1602.020	1598.737	1589.709
28.5	1630.744	1602.840	1590.530	1588.068	1578.219
29.0	1618.434	1591.350	1579.040	1576.578	1566.729
29.5	1606.944	1579.040	1567.550	1564.267	1556.060
30.0	1594.633	1566.729	1556.060	1552.777	1544.570
30.5	1582.323	1554.419	1543.749	1541.287	1533.080
31.0	1569.191	1542.929	1531.439	1528.977	1521.590
31.5	1556.881	1530.618	1519.128	1516.666	1509.280
32.0	1543.749	1517.487	1506.818	1503.535	1496.969
32.5	1530.618	1505.176	1494.507	1491.224	1483.838
33.0	1517.487	1492.866	1482.196	1478.914	1470.706
33.5	1505.176	1479.734	1469.065	1465.782	1458.396
34.0	1491.224	1466.603	1456.754	1452.651	1445.265
34.5	1478.093	1453.472	1442.802	1439.520	1431.313
35.0	1464.962	1441.161	1429.671	1426.388	1417.361
35.5	1451.009	1427.209	1416.540	1413.257	1403.408
36.0	1437.057	1414.078	1403.408	1399.305	1390.277
36.5	1423.926	1400.946	1390.277	1386.174	1377.146
37.0	1409.974	1386.994	1376.325	1372.222	1363.194
37.5	1396.022	1373.042	1363.194	1358.270	1350.063
38.0	1381.249	1359.090	1349.242	1344.318	1336.111
38.5	1367.297	1345.138	1335.290	1331.186	1322.159
39.0	1354.166	1331.186	1321.338	1317.234	1309.027
39.5	1339.393	1317.234	1308.207	1303.282	1294.255
40.0	1325.441	1302.462	1294.255	1289.330	1281.123
40.5	1310.669	1288.510	1280.302	1275.378	1267.171
41.0	1296.717	1273.737	1266.350	1260.606	1252.398
41.5	1281.944	1259.785	1251.578	1246.654	1237.626
42.0	1267.992	1245.012	1237.626	1232.702	1223.674
42.5	1254.040	1231.060	1223.674	1217.929	1209.722
43.0	1239.267	1217.108	1209.722	1203.977	1194.949
43.5	1225.315	1202.335	1194.949	1190.025	1180.997
44.0	1210.542	1187.563	1180.176	1175.252	1167.045
44.5	1195.770	1172.790	1165.404	1160.479	1152.272
45.0	1180.997	1158.838	1151.452	1145.707	1138.320
45.5	1167.045	1144.065	1136.679	1131.755	1124.368
46.0	1152.272	1129.292	1121.906	1116.982	1110.416
46.5	1137.500	1114.520	1107.954	1103.030	1096.464
47.0	1122.727	1099.747	1093.181	1088.257	1081.691
47.5	1107.133	1084.974	1078.409	1073.484	1067.739
48.0	1092.361	1070.202	1063.636	1059.532	1052.967
48.5	1077.588	1055.429	1049.684	1044.760	1038.194
49.0	1061.995	1040.656	1034.911	1029.987	1024.242
49.5	1047.222	1025.883	1020.138	1016.035	1010.290
50.0	1031.628	1011.111	1005.366	1001.262	995.517
50.5	1016.035	996.338	990.593	986.489	981.565
51.0	1000.441	981.565	975.820	971.717	966.793
51.5	985.669	966.793	961.048	957.765	952.020
52.0	970.896	952.020	946.275	942.992	938.068
52.5	955.303	937.247	931.502	929.040	923.295
53.0	940.530	922.474	916.729	914.267	908.522
53.5	924.936	907.702	901.957	899.495	893.750
54.0	910.164	892.929	888.005	885.543	878.977
54.5	895.391	878.977	873.232	870.770	864.204

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55.0	880.618	865.025	859.280	856.818	850.252
55.5	866.666	850.252	844.507	842.045	836.300
56.0	851.073	835.479	829.734	828.093	821.527
56.5	836.300	821.527	815.372	813.567	807.083
57.0	822.348	806.755	800.846	798.876	792.721
57.5	807.904	792.474	786.401	784.596	778.194
58.0	793.459	778.358	771.875	770.233	763.832
58.5	778.933	764.160	757.594	756.117	750.044
59.0	764.652	749.880	743.232	741.837	736.010
59.5	750.783	735.435	728.623	727.639	722.140
60.0	736.584	721.073	714.179	713.358	708.024
60.5	722.550	707.039	700.227	698.996	693.743
61.0	708.762	693.005	686.357	684.962	679.791
61.5	693.990	679.135	672.569	671.010	666.004
62.0	679.463	664.855	658.289	657.140	651.887
62.5	664.608	651.641	644.829	643.926	638.510
63.0	650.328	639.987	634.488	634.078	629.646
63.5	635.884	627.266	622.916	622.014	617.418
64.0	627.184	614.873	610.934	609.129	603.876
64.5	613.642	601.660	597.392	595.751	590.827
65.0	598.459	587.544	584.015	582.456	577.695
65.5	582.948	573.264	570.063	569.324	564.482
66.0	568.011	559.312	556.439	556.111	550.940
66.5	553.238	545.031	542.569	542.569	537.973
67.0	538.630	530.833	528.863	529.110	524.924
67.5	524.267	516.881	515.076	515.568	511.464
68.0	509.741	502.929	501.288	501.944	497.677
68.5	495.132	488.731	487.418	488.321	484.135
69.0	480.031	474.451	473.466	473.958	470.101
69.5	465.341	460.416	459.267	459.842	456.313
70.0	450.814	446.218	445.398	445.644	442.525
70.5	436.534	431.938	431.363	431.610	428.655
71.0	421.925	417.740	417.576	417.904	414.703
71.5	407.317	403.541	403.870	404.116	401.326
72.0	393.119	389.261	389.918	390.246	387.866
72.5	378.920	375.227	376.294	376.622	374.653
73.0	364.886	361.521	362.999	363.409	361.685
73.5	351.262	347.980	349.703	350.442	348.554
74.0	337.803	334.438	336.572	337.146	335.915
74.5	324.343	321.143	323.523	324.097	323.194
75.0	310.802	307.929	310.637	311.212	310.473
75.5	297.424	294.716	297.834	298.573	297.752
76.0	283.882	281.995	285.196	286.016	285.360
76.5	271.079	269.438	272.639	273.542	272.967
77.0	258.605	256.799	260.328	261.149	260.246
77.5	245.720	244.489	248.018	248.674	247.771
78.0	233.163	232.178	235.707	236.692	235.789
78.5	220.688	220.196	223.561	224.710	223.971
79.0	208.706	208.213	211.660	213.055	212.481
79.5	196.723	196.477	199.924	201.401	200.909
80.0	184.905	184.987	188.188	190.240	189.583
80.5	173.005	173.744	177.026	178.996	178.504
81.0	161.597	162.746	165.947	167.999	167.670
81.5	150.600	151.831	155.114	157.165	156.919
82.0	140.341	141.162	144.526	146.660	146.414
82.5	130.082	130.821	134.103	136.237	136.073

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83.0	119.823	120.972	123.845	126.061	126.225
83.5	109.728	111.124	113.914	116.048	116.540
84.0	100.290	101.439	104.066	106.117	106.856
84.5	90.688	91.919	94.381	96.433	97.172
85.0	81.742	82.727	85.025	86.831	87.487
85.5	73.043	73.535	75.505	77.393	78.049
86.0	64.508	64.672	66.395	68.119	68.939
86.5	56.054	56.054	57.614	59.173	59.912
87.0	47.519	47.519	48.668	50.638	51.212
87.5	39.066	39.148	40.215	42.184	42.923
88.0	31.023	30.941	32.008	34.141	34.962
88.5	23.308	22.816	24.211	26.098	27.247
89.0	15.101	14.855	16.742	18.548	19.779
89.5	6.976	8.289	10.013	11.408	11.818
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.162	2.721	2.511	2.442	2.651
91.0	11.371	5.999	4.883	4.813	4.744
91.5	18.277	12.208	7.255	7.185	7.116
92.0	25.253	20.300	10.464	9.348	9.348
92.5	32.508	28.671	16.184	11.720	11.510
93.0	40.042	36.694	22.881	15.556	14.022
93.5	47.646	44.367	30.067	20.998	18.277
94.0	55.110	51.901	38.019	27.485	24.067
94.5	62.784	59.436	46.321	34.182	30.346
95.0	70.318	67.179	54.483	41.019	36.554
95.5	77.852	74.434	62.435	48.065	43.112
96.0	85.038	81.829	70.248	55.389	49.809
96.5	92.293	89.223	78.062	62.854	56.715
97.0	99.338	96.478	85.805	70.318	64.040
97.5	106.593	103.803	93.618	77.922	71.365
98.0	113.779	110.988	101.222	85.456	78.759
98.5	120.964	118.243	108.547	93.130	86.154
99.0	128.289	125.708	116.011	100.455	93.618
99.5	135.683	133.102	123.545	107.779	100.943
100.0	142.938	140.567	131.079	115.313	108.128
100.5	150.472	148.031	138.613	123.127	115.383
101.0	158.216	155.495	146.287	131.009	123.266
101.5	166.099	163.099	154.100	138.892	131.428
102.0	173.772	170.982	161.913	146.775	139.520
102.5	181.795	178.795	170.005	154.658	147.543
103.0	190.026	186.887	178.028	162.471	155.704
103.5	198.258	195.119	186.538	170.842	163.797
104.0	206.699	203.420	195.189	179.493	172.238
104.5	215.419	212.071	203.839	188.352	180.679
105.0	224.348	220.930	212.419	197.072	189.259
105.5	233.487	229.929	221.279	205.862	197.770
106.0	242.765	238.998	230.278	214.791	206.281
106.5	252.113	248.346	239.696	223.790	214.861
107.0	262.089	258.112	249.741	233.347	224.209
107.5	272.413	268.158	259.926	243.463	234.324
108.0	282.668	278.482	270.320	254.415	244.718
108.5	293.481	289.016	280.715	265.367	255.461
109.0	304.572	299.759	291.388	276.459	266.344
109.5	315.943	310.921	302.619	287.481	277.366
110.0	328.082	322.361	314.130	298.782	288.876
110.5	340.499	334.081	325.919	310.921	300.805

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111.0	353.056	346.359	338.127	323.547	312.804
111.5	365.892	358.985	350.544	336.383	325.152
112.0	379.216	371.961	362.892	349.219	336.941
112.5	392.610	385.285	375.379	361.985	349.428
113.0	406.631	399.028	388.564	375.170	362.473
113.5	421.072	413.398	402.516	389.401	376.495
114.0	435.721	428.048	417.305	404.539	392.052
114.5	450.859	443.186	432.373	420.304	408.585
115.0	466.207	458.742	447.999	436.210	425.327
115.5	482.251	474.438	464.044	452.045	441.860
116.0	498.436	490.762	480.647	468.718	458.672
116.5	515.527	507.505	497.808	485.809	476.601
117.0	533.316	524.596	515.108	504.226	495.087
117.5	546.431	537.920	530.944	521.177	513.853
118.0	563.173	553.476	547.198	538.687	530.525
118.5	582.636	572.033	563.801	554.941	545.524
119.0	601.681	590.310	582.636	573.358	562.196
119.5	620.934	609.773	602.587	592.054	580.892
120.0	640.816	629.933	622.609	612.493	600.634
120.5	660.558	650.373	643.258	634.189	621.702
121.0	681.277	671.231	664.046	655.814	644.095
121.5	701.786	691.880	684.765	677.719	665.999
122.0	723.412	712.948	706.670	699.694	687.974
122.5	744.340	733.876	728.295	721.319	708.762
123.0	765.966	756.199	750.618	745.038	731.783
123.5	788.289	778.522	774.337	768.756	755.502
124.0	810.612	801.543	797.358	792.474	779.918
124.5	832.935	823.866	820.378	815.495	803.636
125.0	855.258	846.190	842.702	838.516	826.657
125.5	878.279	869.210	865.722	861.537	848.980
126.0	900.603	891.534	889.441	884.558	871.303
126.5	922.926	913.857	913.159	908.974	895.022
127.0	945.947	936.878	936.878	933.390	920.135
127.5	968.967	959.201	959.201	957.108	945.249
128.0	991.291	981.524	982.222	980.827	968.967
128.5	1013.614	1003.150	1004.545	1004.545	991.988
129.0	1035.937	1024.775	1026.868	1027.566	1015.707
129.5	1058.260	1047.099	1049.889	1051.284	1040.123
130.0	1080.584	1069.422	1072.910	1075.003	1065.934
130.5	1102.907	1091.048	1096.628	1098.024	1090.350
131.0	1125.230	1112.673	1118.952	1120.347	1112.673
131.5	1146.158	1133.601	1141.275	1141.275	1134.299
132.0	1167.784	1154.529	1162.900	1163.598	1155.227
132.5	1188.712	1176.155	1184.526	1185.224	1176.155
133.0	1209.640	1197.780	1205.454	1206.849	1196.385
133.5	1230.568	1218.708	1227.080	1228.475	1218.011
134.0	1251.496	1238.939	1247.310	1249.403	1238.939
134.5	1270.331	1259.169	1266.843	1268.238	1259.169
135.0	1289.166	1278.702	1285.678	1287.073	1277.307
135.5	1307.304	1298.933	1304.513	1305.211	1295.445
136.0	1325.441	1317.768	1321.953	1324.046	1314.280
136.5	1344.277	1335.905	1339.393	1342.881	1333.813
137.0	1361.717	1354.043	1357.531	1360.321	1351.950
137.5	1379.157	1370.785	1374.273	1376.366	1367.995
138.0	1395.899	1387.528	1390.318	1391.713	1383.342
138.5	1412.641	1403.573	1406.363	1407.061	1397.992

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1428.686	1419.617	1422.408	1422.408	1412.641
139.5	1444.731	1435.662	1437.755	1437.057	1426.593
140.0	1460.078	1450.312	1453.102	1452.405	1441.941
140.5	1474.728	1464.264	1467.054	1466.357	1455.195
141.0	1489.378	1478.914	1481.006	1479.611	1468.450
141.5	1502.632	1492.168	1494.958	1492.866	1480.309
142.0	1516.584	1506.120	1508.213	1505.422	1492.866
142.5	1529.838	1519.374	1521.467	1518.677	1504.725
143.0	1543.093	1531.931	1534.024	1531.234	1517.282
143.5	1555.650	1545.186	1546.581	1543.790	1529.141
144.0	1567.509	1557.742	1558.440	1554.952	1540.302
144.5	1579.368	1569.602	1570.299	1566.114	1551.464
145.0	1590.530	1581.461	1581.461	1576.578	1561.928
145.5	1602.389	1593.320	1592.622	1588.437	1573.090
146.0	1613.550	1604.482	1603.784	1598.901	1584.251
146.5	1624.712	1615.643	1614.248	1610.062	1595.413
147.0	1635.176	1626.805	1624.014	1621.224	1606.574
147.5	1645.640	1637.269	1634.478	1631.688	1617.038
148.0	1656.104	1647.733	1643.547	1641.454	1628.200
148.5	1666.568	1658.197	1652.616	1651.221	1639.362
149.0	1676.335	1668.661	1661.685	1660.987	1650.523
149.5	1686.101	1678.427	1670.056	1670.754	1660.987
150.0	1695.867	1688.194	1679.125	1679.823	1670.754
150.5	1705.634	1697.960	1687.496	1688.194	1680.520
151.0	1714.703	1707.029	1695.867	1696.565	1689.589
151.5	1724.469	1716.098	1704.936	1704.936	1697.960
152.0	1733.538	1725.167	1713.307	1712.610	1706.331
152.5	1742.607	1733.538	1721.679	1720.981	1714.005
153.0	1751.675	1741.909	1730.050	1729.352	1720.981
153.5	1760.047	1750.280	1738.421	1737.723	1727.259
154.0	1768.418	1758.651	1747.490	1746.095	1734.235
154.5	1777.487	1766.325	1755.861	1753.768	1741.211
155.0	1785.858	1773.999	1764.232	1762.139	1748.885
155.5	1793.531	1780.975	1772.603	1770.511	1756.559
156.0	1801.205	1788.648	1781.672	1778.184	1764.232
156.5	1808.879	1796.322	1790.043	1786.555	1771.906
157.0	1816.552	1803.995	1798.415	1794.927	1779.579
157.5	1823.528	1810.971	1806.088	1802.600	1787.253
158.0	1830.504	1817.947	1813.762	1810.274	1794.927
158.5	1838.178	1825.621	1821.435	1817.947	1803.298
159.0	1844.456	1832.597	1828.411	1825.621	1810.971
159.5	1851.432	1839.573	1835.387	1833.295	1818.645
160.0	1857.711	1845.851	1842.363	1840.271	1826.319
160.5	1863.989	1852.130	1848.642	1847.247	1833.992
161.0	1870.268	1858.408	1854.920	1854.223	1841.666
161.5	1876.546	1865.384	1860.501	1861.199	1849.339
162.0	1883.522	1871.663	1866.082	1868.175	1856.316
162.5	1889.800	1877.941	1871.663	1874.453	1862.594
163.0	1896.079	1884.220	1877.244	1880.732	1868.872
163.5	1902.357	1889.800	1882.824	1887.010	1874.453
164.0	1908.636	1895.381	1887.708	1892.591	1880.034
164.5	1913.519	1900.962	1892.591	1898.172	1885.615
165.0	1919.100	1906.543	1897.474	1903.752	1890.498
165.5	1924.680	1911.426	1902.357	1908.636	1895.381
166.0	1930.261	1916.309	1907.240	1913.519	1899.567
166.5	1935.842	1921.192	1912.124	1917.704	1904.450

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1940.725	1925.378	1916.309	1921.890	1908.636
167.5	1945.608	1929.564	1921.192	1926.076	1913.519
168.0	1950.492	1933.749	1925.378	1930.261	1917.704
168.5	1955.375	1937.935	1929.564	1934.447	1922.588
169.0	1959.560	1941.423	1933.749	1937.935	1926.773
169.5	1963.048	1944.911	1937.237	1941.423	1930.959
170.0	1966.536	1948.399	1940.725	1944.911	1935.842
170.5	1970.024	1951.887	1943.516	1948.399	1939.330
171.0	1973.512	1954.677	1946.306	1951.887	1942.818
171.5	1976.303	1957.468	1949.096	1955.375	1946.306
172.0	1979.093	1960.258	1951.189	1958.165	1949.096
172.5	1981.884	1963.048	1953.282	1960.258	1951.189
173.0	1984.674	1965.839	1955.375	1963.048	1952.584
173.5	1986.767	1967.932	1957.468	1964.444	1953.980
174.0	1988.860	1970.024	1959.560	1965.839	1954.677
174.5	1990.255	1971.420	1960.956	1967.234	1955.375
175.0	1991.650	1973.512	1962.351	1967.932	1955.375
175.5	1993.045	1974.908	1964.444	1968.629	1956.072
176.0	1994.440	1976.303	1965.839	1968.629	1956.072
176.5	1995.138	1977.698	1966.536	1969.327	1956.072
177.0	1995.836	1979.093	1967.932	1969.327	1955.375
177.5	1997.231	1980.488	1969.327	1969.327	1955.375
178.0	1997.928	1980.488	1970.024	1969.327	1956.072
178.5	1997.928	1981.186	1970.722	1969.327	1956.072
179.0	1998.626	1981.884	1970.722	1969.327	1956.072
179.5	1999.324	1981.884	1971.420	1969.327	1956.072
180.0	1974.908	1974.908	1974.908	1974.908	1974.908



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	707.11	N.A.	7.00
0-30	1478.33	N.A.	14.70
0-40	2374.96	N.A.	23.70
0-60	4035.6	N.A.	40.20
0-80	4942.04	N.A.	49.30
0-90	5037.82	N.A.	50.20
10-90	4853.25	N.A.	48.40
20-40	1667.85	N.A.	16.60
20-50	2557.94	N.A.	25.50
40-70	2237.76	N.A.	22.30
60-80	906.44	N.A.	9.00
70-80	329.32	N.A.	3.30
80-90	95.78	N.A.	1.00
90-110	285.80	N.A.	2.80
90-120	733.68	N.A.	7.30
90-130	1486.32	N.A.	14.80
90-150	3457.07	N.A.	34.50
90-180	4996.38	N.A.	49.80
110-180	4710.58	N.A.	46.90
0-180	10034.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.57
10-20	522.54
20-30	771.22
30-40	896.63
40-50	890.09
50-60	770.55
60-70	577.12
70-80	329.32
80-90	95.78
90-100	61.64
100-110	224.16
110-120	447.88
120-130	752.64
130-140	984.14
140-150	986.60
150-160	814.98
160-170	537.04
170-180	187.28

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-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	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-L15-850U-L8-850D-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	16.8	17.7	17.8	18.7	19.9	UGR Viewed Endwise			
	3H	18.6	19.4	19.6	20.3	21.6	16.7	17.6	17.7	18.6
	4H	19.2	19.9	20.2	20.9	22.2	18.5	19.3	19.5	20.3
	6H	19.6	20.3	20.6	21.3	22.6	19.1	19.9	20.1	20.8
	8H	19.8	20.4	20.8	21.4	22.7	19.6	20.3	20.6	21.3
	12H	19.8	20.5	20.8	21.5	22.8	19.7	20.4	20.7	21.4

4H	2H	17.4	18.1	18.4	19.1	20.4	19.8	20.4	20.8	21.4	22.8
	3H	19.3	19.9	20.3	21.0	22.3	17.3	18.0	18.3	19.0	20.3
	4H	20.1	20.6	21.1	21.6	23.0	19.3	19.9	20.3	20.9	22.2
	6H	20.6	21.1	21.6	22.1	23.5	20.0	20.6	21.0	21.6	22.9
	8H	20.8	21.3	21.8	22.3	23.6	20.6	21.1	21.6	22.1	23.5
	12H	20.9	21.3	22.0	22.4	23.7	20.8	21.3	21.8	22.3	23.6

8H	4H	20.3	20.8	21.3	21.8	23.1	20.9	21.3	22.0	22.4	23.7
	6H	21.0	21.4	22.0	22.4	23.8	20.3	20.7	21.3	21.7	23.1
	8H	21.3	21.6	22.3	22.6	24.0	21.0	21.4	22.0	22.4	23.8
	12H	21.5	21.7	22.5	22.8	24.2	21.3	21.6	22.3	22.7	24.0

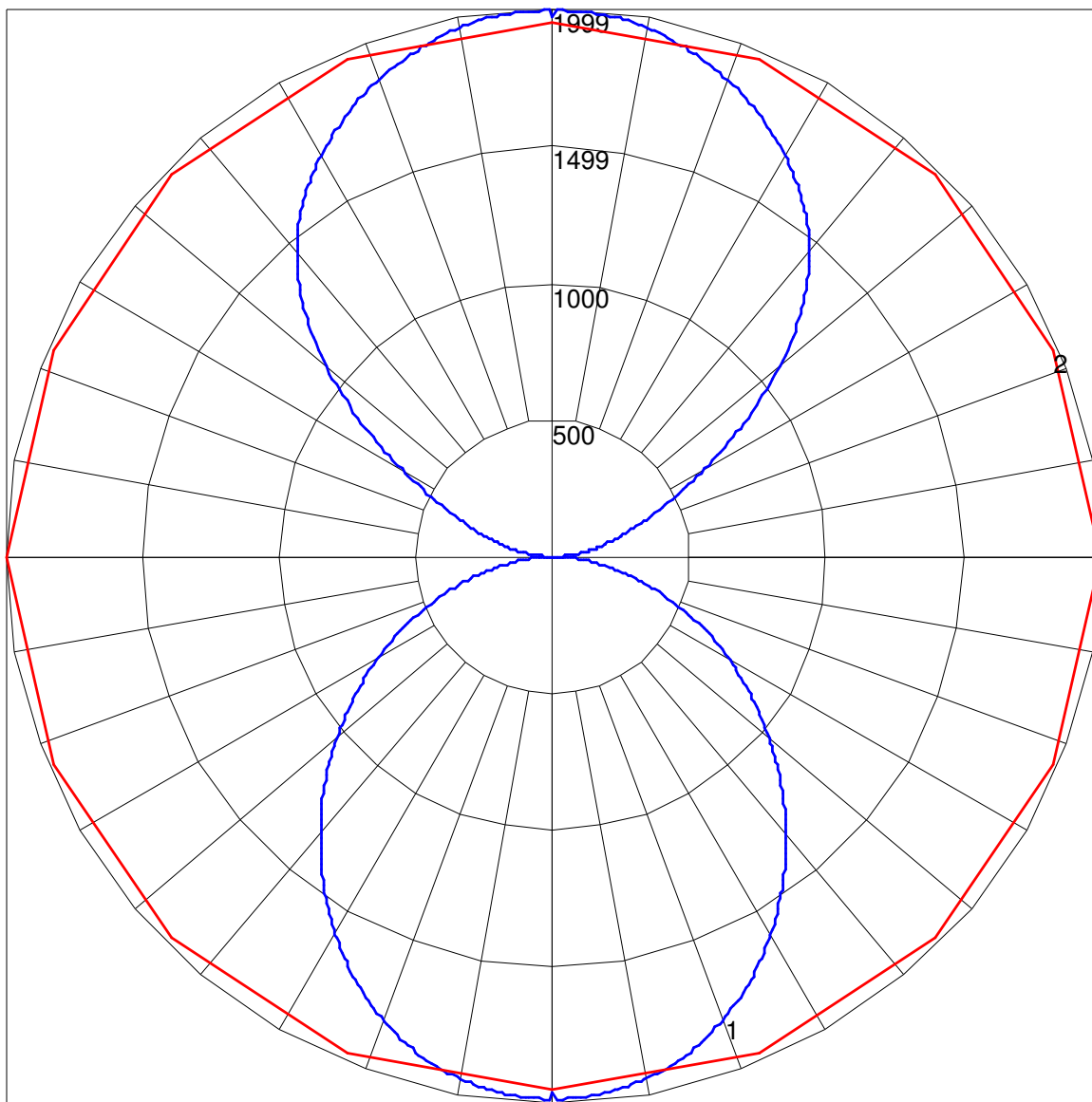
12H	4H	20.3	20.7	21.3	21.8	23.1	21.5	21.8	22.6	22.8	24.2
	6H	21.0	21.4	22.1	22.4	23.8	20.3	20.7	21.3	21.7	23.1
	8H	21.3	21.6	22.4	22.7	24.1	21.0	21.4	22.1	22.4	23.8

Maximum UGR = 24.2

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L8-850D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1999.324 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.)