

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-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-L15-930U-L15-930D-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	10026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	13473	13135	12986
55	12385	12084	11958
65	11423	11147	11026
75	9687	9681	9676
85	7565	7869	8097

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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	1954.880	1954.880	1954.880	1954.880	1954.880
0.5	1984.400	1956.520	1946.680	1950.780	1944.220
1.0	1984.400	1955.700	1946.680	1950.780	1944.220
1.5	1983.580	1954.880	1945.860	1950.780	1943.400
2.0	1982.760	1954.060	1945.040	1949.960	1943.400
2.5	1981.940	1953.240	1943.400	1949.140	1942.580
3.0	1980.300	1951.600	1942.580	1948.320	1940.940
3.5	1978.660	1949.960	1940.940	1946.680	1939.300
4.0	1977.020	1948.320	1939.300	1945.040	1937.660
4.5	1975.380	1945.860	1937.660	1943.400	1935.200
5.0	1973.740	1944.220	1935.200	1940.940	1932.740
5.5	1971.280	1941.760	1932.740	1938.480	1930.280
6.0	1968.820	1938.480	1930.280	1936.020	1927.000
6.5	1965.540	1936.020	1927.000	1932.740	1924.540
7.0	1963.080	1932.740	1924.540	1929.460	1921.260
7.5	1960.620	1929.460	1921.260	1926.180	1918.800
8.0	1956.520	1926.180	1917.160	1922.900	1915.520
8.5	1953.240	1922.080	1913.060	1918.800	1911.420
9.0	1949.140	1918.800	1909.780	1914.700	1907.320
9.5	1945.040	1914.700	1904.860	1909.780	1903.220
10.0	1940.940	1910.600	1900.760	1905.680	1898.300
10.5	1936.020	1905.680	1895.840	1900.760	1894.200
11.0	1931.920	1900.760	1890.920	1895.840	1888.460
11.5	1926.180	1895.840	1886.000	1890.920	1883.540
12.0	1921.260	1890.920	1881.080	1885.180	1877.800
12.5	1916.340	1885.180	1875.340	1879.440	1872.060
13.0	1910.600	1880.260	1869.600	1873.700	1866.320
13.5	1904.860	1873.700	1863.860	1867.140	1860.580
14.0	1899.120	1867.960	1857.300	1861.400	1854.840
14.5	1893.380	1862.220	1850.740	1854.840	1848.280
15.0	1887.640	1855.660	1844.180	1848.280	1841.720
15.5	1880.260	1849.920	1837.620	1840.900	1834.340
16.0	1872.060	1843.360	1830.240	1834.340	1827.780
16.5	1863.860	1835.980	1822.860	1826.960	1820.400
17.0	1856.480	1828.600	1815.480	1819.580	1813.020
17.5	1848.280	1820.400	1807.280	1811.380	1804.820
18.0	1840.080	1812.200	1799.080	1803.180	1796.620
18.5	1831.880	1804.000	1790.880	1794.160	1788.420
19.0	1823.680	1795.800	1783.500	1785.960	1778.580
19.5	1814.660	1787.600	1775.300	1776.120	1768.740
20.0	1806.460	1778.580	1767.920	1767.100	1758.900
20.5	1797.440	1770.380	1759.720	1757.260	1749.060
21.0	1788.420	1761.360	1750.700	1747.420	1738.400
21.5	1778.580	1752.340	1740.860	1737.580	1727.740
22.0	1769.560	1742.500	1730.200	1726.920	1717.900
22.5	1759.720	1732.660	1720.360	1716.260	1707.240
23.0	1749.880	1722.820	1710.520	1704.780	1696.580
23.5	1740.040	1712.980	1699.860	1694.120	1686.740
24.0	1729.380	1703.140	1690.020	1683.460	1676.080
24.5	1718.720	1692.480	1679.360	1672.800	1665.420
25.0	1708.880	1681.820	1668.700	1662.140	1654.760
25.5	1698.220	1671.160	1657.220	1651.480	1643.280
26.0	1686.740	1659.680	1646.560	1640.820	1632.620
26.5	1676.080	1649.020	1635.080	1630.160	1621.960

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27.0	1664.600	1637.540	1623.600	1619.500	1610.480
27.5	1653.120	1626.060	1612.940	1608.840	1599.820
28.0	1641.640	1613.760	1600.640	1597.360	1588.340
28.5	1629.340	1601.460	1589.160	1586.700	1576.860
29.0	1617.040	1589.980	1577.680	1575.220	1565.380
29.5	1605.560	1577.680	1566.200	1562.920	1554.720
30.0	1593.260	1565.380	1554.720	1551.440	1543.240
30.5	1580.960	1553.080	1542.420	1539.960	1531.760
31.0	1567.840	1541.600	1530.120	1527.660	1520.280
31.5	1555.540	1529.300	1517.820	1515.360	1507.980
32.0	1542.420	1516.180	1505.520	1502.240	1495.680
32.5	1529.300	1503.880	1493.220	1489.940	1482.560
33.0	1516.180	1491.580	1480.920	1477.640	1469.440
33.5	1503.880	1478.460	1467.800	1464.520	1457.140
34.0	1489.940	1465.340	1455.500	1451.400	1444.020
34.5	1476.820	1452.220	1441.560	1438.280	1430.080
35.0	1463.700	1439.920	1428.440	1425.160	1416.140
35.5	1449.760	1425.980	1415.320	1412.040	1402.200
36.0	1435.820	1412.860	1402.200	1398.100	1389.080
36.5	1422.700	1399.740	1389.080	1384.980	1375.960
37.0	1408.760	1385.800	1375.140	1371.040	1362.020
37.5	1394.820	1371.860	1362.020	1357.100	1348.900
38.0	1380.060	1357.920	1348.080	1343.160	1334.960
38.5	1366.120	1343.980	1334.140	1330.040	1321.020
39.0	1353.000	1330.040	1320.200	1316.100	1307.900
39.5	1338.240	1316.100	1307.080	1302.160	1293.140
40.0	1324.300	1301.340	1293.140	1288.220	1280.020
40.5	1309.540	1287.400	1279.200	1274.280	1266.080
41.0	1295.600	1272.640	1265.260	1259.520	1251.320
41.5	1280.840	1258.700	1250.500	1245.580	1236.560
42.0	1266.900	1243.940	1236.560	1231.640	1222.620
42.5	1252.960	1230.000	1222.620	1216.880	1208.680
43.0	1238.200	1216.060	1208.680	1202.940	1193.920
43.5	1224.260	1201.300	1193.920	1189.000	1179.980
44.0	1209.500	1186.540	1179.160	1174.240	1166.040
44.5	1194.740	1171.780	1164.400	1159.480	1151.280
45.0	1179.980	1157.840	1150.460	1144.720	1137.340
45.5	1166.040	1143.080	1135.700	1130.780	1123.400
46.0	1151.280	1128.320	1120.940	1116.020	1109.460
46.5	1136.520	1113.560	1107.000	1102.080	1095.520
47.0	1121.760	1098.800	1092.240	1087.320	1080.760
47.5	1106.180	1084.040	1077.480	1072.560	1066.820
48.0	1091.420	1069.280	1062.720	1058.620	1052.060
48.5	1076.660	1054.520	1048.780	1043.860	1037.300
49.0	1061.080	1039.760	1034.020	1029.100	1023.360
49.5	1046.320	1025.000	1019.260	1015.160	1009.420
50.0	1030.740	1010.240	1004.500	1000.400	994.660
50.5	1015.160	995.480	989.740	985.640	980.720
51.0	999.580	980.720	974.980	970.880	965.960
51.5	984.820	965.960	960.220	956.940	951.200
52.0	970.060	951.200	945.460	942.180	937.260
52.5	954.480	936.440	930.700	928.240	922.500
53.0	939.720	921.680	915.940	913.480	907.740
53.5	924.140	906.920	901.180	898.720	892.980
54.0	909.380	892.160	887.240	884.780	878.220
54.5	894.620	878.220	872.480	870.020	863.460

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55.0	879.860	864.280	858.540	856.080	849.520
55.5	865.920	849.520	843.780	841.320	835.580
56.0	850.340	834.760	829.020	827.380	820.820
56.5	835.580	820.820	814.670	812.866	806.388
57.0	821.640	806.060	800.156	798.188	792.038
57.5	807.208	791.792	785.724	783.920	777.524
58.0	792.776	777.688	771.210	769.570	763.174
58.5	778.262	763.502	756.942	755.466	749.398
59.0	763.994	749.234	742.592	741.198	735.376
59.5	750.136	734.802	727.996	727.012	721.518
60.0	735.950	720.452	713.564	712.744	707.414
60.5	721.928	706.430	699.624	698.394	693.146
61.0	708.152	692.408	685.766	684.372	679.206
61.5	693.392	678.550	671.990	670.432	665.430
62.0	678.878	664.282	657.722	656.574	651.326
62.5	664.036	651.080	644.274	643.372	637.960
63.0	649.768	639.436	633.942	633.532	629.104
63.5	635.336	626.726	622.380	621.478	616.886
64.0	626.644	614.344	610.408	608.604	603.356
64.5	613.114	601.142	596.878	595.238	590.318
65.0	597.944	587.038	583.512	581.954	577.198
65.5	582.446	572.770	569.572	568.834	563.996
66.0	567.522	558.830	555.960	555.632	550.466
66.5	552.762	544.562	542.102	542.102	537.510
67.0	538.166	530.376	528.408	528.654	524.472
67.5	523.816	516.436	514.632	515.124	511.024
68.0	509.302	502.496	500.856	501.512	497.248
68.5	494.706	488.310	486.998	487.900	483.718
69.0	479.618	474.042	473.058	473.550	469.696
69.5	464.940	460.020	458.872	459.446	455.920
70.0	450.426	445.834	445.014	445.260	442.144
70.5	436.158	431.566	430.992	431.238	428.286
71.0	421.562	417.380	417.216	417.544	414.346
71.5	406.966	403.194	403.522	403.768	400.980
72.0	392.780	388.926	389.582	389.910	387.532
72.5	378.594	374.904	375.970	376.298	374.330
73.0	364.572	361.210	362.686	363.096	361.374
73.5	350.960	347.680	349.402	350.140	348.254
74.0	337.512	334.150	336.282	336.856	335.626
74.5	324.064	320.866	323.244	323.818	322.916
75.0	310.534	307.664	310.370	310.944	310.206
75.5	297.168	294.462	297.578	298.316	297.496
76.0	283.638	281.752	284.950	285.770	285.114
76.5	270.846	269.206	272.404	273.306	272.732
77.0	258.382	256.578	260.104	260.924	260.022
77.5	245.508	244.278	247.804	248.460	247.558
78.0	232.962	231.978	235.504	236.488	235.586
78.5	220.498	220.006	223.368	224.516	223.778
79.0	208.526	208.034	211.478	212.872	212.298
79.5	196.554	196.308	199.752	201.228	200.736
80.0	184.746	184.828	188.026	190.076	189.420
80.5	172.856	173.594	176.874	178.842	178.350
81.0	161.458	162.606	165.804	167.854	167.526
81.5	150.470	151.700	154.980	157.030	156.784
82.0	140.220	141.040	144.402	146.534	146.288
82.5	129.970	130.708	133.988	136.120	135.956

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83.0	119.720	120.868	123.738	125.952	126.116
83.5	109.634	111.028	113.816	115.948	116.440
84.0	100.204	101.352	103.976	106.026	106.764
84.5	90.610	91.840	94.300	96.350	97.088
85.0	81.672	82.656	84.952	86.756	87.412
85.5	72.980	73.472	75.440	77.326	77.982
86.0	64.452	64.616	66.338	68.060	68.880
86.5	56.006	56.006	57.564	59.122	59.860
87.0	47.478	47.478	48.626	50.594	51.168
87.5	39.032	39.114	40.180	42.148	42.886
88.0	30.996	30.914	31.980	34.112	34.932
88.5	23.288	22.796	24.190	26.076	27.224
89.0	15.088	14.842	16.728	18.532	19.762
89.5	6.970	8.282	10.004	11.398	11.808
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.158	2.718	2.509	2.439	2.649
91.0	11.361	5.994	4.879	4.809	4.740
91.5	18.261	12.197	7.249	7.179	7.109
92.0	25.231	20.283	10.455	9.340	9.340
92.5	32.480	28.647	16.170	11.710	11.500
93.0	40.008	36.662	22.862	15.543	14.010
93.5	47.605	44.329	30.041	20.980	18.261
94.0	55.063	51.857	37.986	27.462	24.046
94.5	62.730	59.384	46.281	34.153	30.319
95.0	70.258	67.121	54.436	40.984	36.523
95.5	77.785	74.370	62.381	48.023	43.075
96.0	84.964	81.758	70.188	55.342	49.766
96.5	92.213	89.146	77.994	62.800	56.666
97.0	99.253	96.395	85.731	70.258	63.985
97.5	106.502	103.714	93.537	77.855	71.303
98.0	113.681	110.893	101.135	85.382	78.691
98.5	120.860	118.141	108.453	93.049	86.079
99.0	128.178	125.599	115.911	100.368	93.537
99.5	135.566	132.988	123.439	107.686	100.856
100.0	142.815	140.445	130.966	115.214	108.035
100.5	150.343	147.903	138.494	123.020	115.284
101.0	158.080	155.361	146.161	130.897	123.160
101.5	165.956	162.959	153.967	138.773	131.315
102.0	173.623	170.835	161.774	146.649	139.400
102.5	181.638	178.641	169.859	154.525	147.415
103.0	189.863	186.726	177.874	162.331	155.570
103.5	198.087	194.951	186.378	170.695	163.656
104.0	206.521	203.245	195.021	179.338	172.089
104.5	215.234	211.888	203.663	188.190	180.523
105.0	224.155	220.740	212.236	196.902	189.096
105.5	233.286	229.731	221.088	205.685	197.599
106.0	242.556	238.792	230.080	214.606	206.103
106.5	251.896	248.132	239.489	223.598	214.676
107.0	261.863	257.890	249.526	233.146	224.016
107.5	272.178	267.927	259.702	243.253	234.122
108.0	282.424	278.242	270.087	254.196	244.508
108.5	293.228	288.767	280.473	265.139	255.241
109.0	304.310	299.501	291.137	276.221	266.115
109.5	315.671	310.653	302.359	287.234	277.127
110.0	327.799	322.084	313.859	298.525	288.628
110.5	340.206	333.793	325.638	310.653	300.546

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111.0	352.752	346.060	337.836	323.269	312.535
111.5	365.576	358.676	350.242	336.093	324.872
112.0	378.889	371.640	362.579	348.918	336.651
112.5	392.272	384.953	375.056	361.673	349.127
113.0	406.281	398.684	388.229	374.847	362.161
113.5	420.709	413.042	402.169	389.065	376.171
114.0	435.346	427.679	416.945	404.190	391.714
114.5	450.471	442.804	432.001	419.942	408.233
115.0	465.805	458.347	447.613	435.834	424.961
115.5	481.836	474.030	463.644	451.656	441.480
116.0	498.006	490.339	480.233	468.314	458.277
116.5	515.083	507.067	497.379	485.391	476.190
117.0	532.856	524.144	514.665	503.792	494.661
117.5	545.960	537.457	530.487	520.729	513.410
118.0	562.688	553.000	546.727	538.223	530.068
118.5	582.134	571.540	563.315	554.463	545.054
119.0	601.162	589.801	582.134	572.864	561.712
119.5	620.400	609.248	602.069	591.544	580.392
120.0	640.264	629.391	622.072	611.966	600.117
120.5	659.989	649.813	642.704	633.643	621.166
121.0	680.690	670.653	663.474	655.250	643.540
121.5	701.182	691.285	684.175	677.135	665.426
122.0	722.789	712.334	706.061	699.091	687.381
122.5	743.699	733.244	727.668	720.698	708.152
123.0	765.306	755.548	749.972	744.396	731.153
123.5	787.610	777.852	773.670	768.094	754.851
124.0	809.914	800.853	796.671	791.792	779.246
124.5	832.218	823.157	819.672	814.793	802.944
125.0	854.522	845.461	841.976	837.794	825.945
125.5	877.523	868.462	864.977	860.795	848.249
126.0	899.827	890.766	888.675	883.796	870.553
126.5	922.131	913.070	912.373	908.191	894.251
127.0	945.132	936.071	936.071	932.586	919.343
127.5	968.133	958.375	958.375	956.284	944.435
128.0	990.437	980.679	981.376	979.982	968.133
128.5	1012.741	1002.286	1003.680	1003.680	991.134
129.0	1035.045	1023.893	1025.984	1026.681	1014.832
129.5	1057.349	1046.197	1048.985	1050.379	1039.227
130.0	1079.653	1068.501	1071.986	1074.077	1065.016
130.5	1101.957	1090.108	1095.684	1097.078	1089.411
131.0	1124.261	1111.715	1117.988	1119.382	1111.715
131.5	1145.171	1132.625	1140.292	1140.292	1133.322
132.0	1166.778	1153.535	1161.899	1162.596	1154.232
132.5	1187.688	1175.142	1183.506	1184.203	1175.142
133.0	1208.598	1196.749	1204.416	1205.810	1195.355
133.5	1229.508	1217.659	1226.023	1227.417	1216.962
134.0	1250.418	1237.872	1246.236	1248.327	1237.872
134.5	1269.237	1258.085	1265.752	1267.146	1258.085
135.0	1288.056	1277.601	1284.571	1285.965	1276.207
135.5	1306.178	1297.814	1303.390	1304.087	1294.329
136.0	1324.300	1316.633	1320.815	1322.906	1313.148
136.5	1343.119	1334.755	1338.240	1341.725	1332.664
137.0	1360.544	1352.877	1356.362	1359.150	1350.786
137.5	1377.969	1369.605	1373.090	1375.181	1366.817
138.0	1394.697	1386.333	1389.121	1390.515	1382.151
138.5	1411.425	1402.364	1405.152	1405.849	1396.788

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1427.456	1418.395	1421.183	1421.183	1411.425
139.5	1443.487	1434.426	1436.517	1435.820	1425.365
140.0	1458.821	1449.063	1451.851	1451.154	1440.699
140.5	1473.458	1463.003	1465.791	1465.094	1453.942
141.0	1488.095	1477.640	1479.731	1478.337	1467.185
141.5	1501.338	1490.883	1493.671	1491.580	1479.034
142.0	1515.278	1504.823	1506.914	1504.126	1491.580
142.5	1528.521	1518.066	1520.157	1517.369	1503.429
143.0	1541.764	1530.612	1532.703	1529.915	1515.975
143.5	1554.310	1543.855	1545.249	1542.461	1527.824
144.0	1566.159	1556.401	1557.098	1553.613	1538.976
144.5	1578.008	1568.250	1568.947	1564.765	1550.128
145.0	1589.160	1580.099	1580.099	1575.220	1560.583
145.5	1601.009	1591.948	1591.251	1587.069	1571.735
146.0	1612.161	1603.100	1602.403	1597.524	1582.887
146.5	1623.313	1614.252	1612.858	1608.676	1594.039
147.0	1633.768	1625.404	1622.616	1619.828	1605.191
147.5	1644.223	1635.859	1633.071	1630.283	1615.646
148.0	1654.678	1646.314	1642.132	1640.041	1626.798
148.5	1665.133	1656.769	1651.193	1649.799	1637.950
149.0	1674.891	1667.224	1660.254	1659.557	1649.102
149.5	1684.649	1676.982	1668.618	1669.315	1659.557
150.0	1694.407	1686.740	1677.679	1678.376	1669.315
150.5	1704.165	1696.498	1686.043	1686.740	1679.073
151.0	1713.226	1705.559	1694.407	1695.104	1688.134
151.5	1722.984	1714.620	1703.468	1703.468	1696.498
152.0	1732.045	1723.681	1711.832	1711.135	1704.862
152.5	1741.106	1732.045	1720.196	1719.499	1712.529
153.0	1750.167	1740.409	1728.560	1727.863	1719.499
153.5	1758.531	1748.773	1736.924	1736.227	1725.772
154.0	1766.895	1757.137	1745.985	1744.591	1732.742
154.5	1775.956	1764.804	1754.349	1752.258	1739.712
155.0	1784.320	1772.471	1762.713	1760.622	1747.379
155.5	1791.987	1779.441	1771.077	1768.986	1755.046
156.0	1799.654	1787.108	1780.138	1776.653	1762.713
156.5	1807.321	1794.775	1788.502	1785.017	1770.380
157.0	1814.988	1802.442	1796.866	1793.381	1778.047
157.5	1821.958	1809.412	1804.533	1801.048	1785.714
158.0	1828.928	1816.382	1812.200	1808.715	1793.381
158.5	1836.595	1824.049	1819.867	1816.382	1801.745
159.0	1842.868	1831.019	1826.837	1824.049	1809.412
159.5	1849.838	1837.989	1833.807	1831.716	1817.079
160.0	1856.111	1844.262	1840.777	1838.686	1824.746
160.5	1862.384	1850.535	1847.050	1845.656	1832.413
161.0	1868.657	1856.808	1853.323	1852.626	1840.080
161.5	1874.930	1863.778	1858.899	1859.596	1847.747
162.0	1881.900	1870.051	1864.475	1866.566	1854.717
162.5	1888.173	1876.324	1870.051	1872.839	1860.990
163.0	1894.446	1882.597	1875.627	1879.112	1867.263
163.5	1900.719	1888.173	1881.203	1885.385	1872.839
164.0	1906.992	1893.749	1886.082	1890.961	1878.415
164.5	1911.871	1899.325	1890.961	1896.537	1883.991
165.0	1917.447	1904.901	1895.840	1902.113	1888.870
165.5	1923.023	1909.780	1900.719	1906.992	1893.749
166.0	1928.599	1914.659	1905.598	1911.871	1897.931
166.5	1934.175	1919.538	1910.477	1916.053	1902.810

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1939.054	1923.720	1914.659	1920.235	1906.992
167.5	1943.933	1927.902	1919.538	1924.417	1911.871
168.0	1948.812	1932.084	1923.720	1928.599	1916.053
168.5	1953.691	1936.266	1927.902	1932.781	1920.932
169.0	1957.873	1939.751	1932.084	1936.266	1925.114
169.5	1961.358	1943.236	1935.569	1939.751	1929.296
170.0	1964.843	1946.721	1939.054	1943.236	1934.175
170.5	1968.328	1950.206	1941.842	1946.721	1937.660
171.0	1971.813	1952.994	1944.630	1950.206	1941.145
171.5	1974.601	1955.782	1947.418	1953.691	1944.630
172.0	1977.389	1958.570	1949.509	1956.479	1947.418
172.5	1980.177	1961.358	1951.600	1958.570	1949.509
173.0	1982.965	1964.146	1953.691	1961.358	1950.903
173.5	1985.056	1966.237	1955.782	1962.752	1952.297
174.0	1987.147	1968.328	1957.873	1964.146	1952.994
174.5	1988.541	1969.722	1959.267	1965.540	1953.691
175.0	1989.935	1971.813	1960.661	1966.237	1953.691
175.5	1991.329	1973.207	1962.752	1966.934	1954.388
176.0	1992.723	1974.601	1964.146	1966.934	1954.388
176.5	1993.420	1975.995	1964.843	1967.631	1954.388
177.0	1994.117	1977.389	1966.237	1967.631	1953.691
177.5	1995.511	1978.783	1967.631	1967.631	1953.691
178.0	1996.208	1978.783	1968.328	1967.631	1954.388
178.5	1996.208	1979.480	1969.025	1967.631	1954.388
179.0	1996.905	1980.177	1969.025	1967.631	1954.388
179.5	1997.602	1980.177	1969.722	1967.631	1954.388
180.0	1973.207	1973.207	1973.207	1973.207	1973.207



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	706.51	N.A.	7.00
0-30	1477.06	N.A.	14.70
0-40	2372.92	N.A.	23.70
0-60	4032.12	N.A.	40.20
0-80	4937.79	N.A.	49.30
0-90	5033.48	N.A.	50.20
10-90	4849.07	N.A.	48.40
20-40	1666.41	N.A.	16.60
20-50	2555.73	N.A.	25.50
40-70	2235.83	N.A.	22.30
60-80	905.66	N.A.	9.00
70-80	329.04	N.A.	3.30
80-90	95.69	N.A.	1.00
90-110	285.56	N.A.	2.80
90-120	733.05	N.A.	7.30
90-130	1485.04	N.A.	14.80
90-150	3454.09	N.A.	34.50
90-180	4992.08	N.A.	49.80
110-180	4706.52	N.A.	46.90
0-180	10025.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.41
10-20	522.09
20-30	770.55
30-40	895.86
40-50	889.32
50-60	769.88
60-70	576.63
70-80	329.04
80-90	95.69
90-100	61.59
100-110	223.97
110-120	447.49
120-130	751.99
130-140	983.30
140-150	985.76
150-160	814.28
160-170	536.58
170-180	187.12

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-F-F-DIM-UNV\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	36	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-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

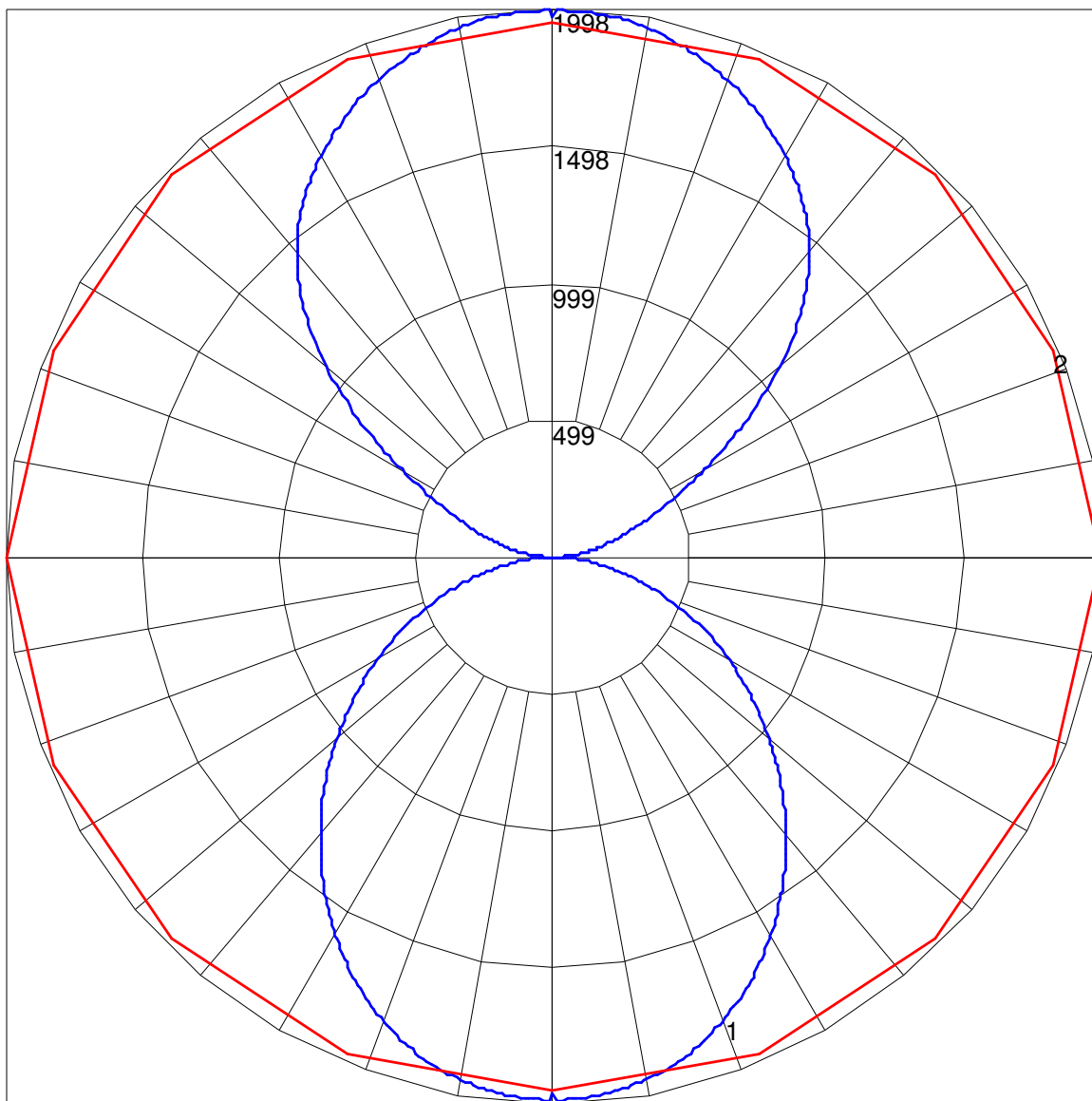
12H	4H	20.3	20.7	21.3	21.8	23.1	21.5	21.8	22.6	22.8	24.2
	6H	21.0	21.4	22.1	22.4	23.8	20.3	20.7	21.3	21.7	23.1
	8H	21.3	21.6	22.4	22.7	24.1	21.0	21.4	22.1	22.4	23.8

Maximum UGR = 24.2

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L15-930D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1997.602 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.)