

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-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-L15-830U-L8-830D-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	9372
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	12594	12279	12139
55	11577	11296	11177
65	10678	10420	10307
75	9055	9050	9045
85	7072	7356	7569

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1827.358	1827.358	1827.358	1827.358	1827.358
<b>0.5</b>	1854.952	1828.891	1819.693	1823.525	1817.393
<b>1.0</b>	1854.952	1828.124	1819.693	1823.525	1817.393
<b>1.5</b>	1854.186	1827.358	1818.926	1823.525	1816.627
<b>2.0</b>	1853.419	1826.591	1818.160	1822.759	1816.627
<b>2.5</b>	1852.653	1825.825	1816.627	1821.992	1815.860
<b>3.0</b>	1851.120	1824.292	1815.860	1821.226	1814.327
<b>3.5</b>	1849.586	1822.759	1814.327	1819.693	1812.794
<b>4.0</b>	1848.053	1821.226	1812.794	1818.160	1811.261
<b>4.5</b>	1846.520	1818.926	1811.261	1816.627	1808.962
<b>5.0</b>	1844.987	1817.393	1808.962	1814.327	1806.662
<b>5.5</b>	1842.688	1815.094	1806.662	1812.028	1804.362
<b>6.0</b>	1840.388	1812.028	1804.362	1809.728	1801.296
<b>6.5</b>	1837.322	1809.728	1801.296	1806.662	1798.997
<b>7.0</b>	1835.023	1806.662	1798.997	1803.596	1795.931
<b>7.5</b>	1832.723	1803.596	1795.931	1800.530	1793.631
<b>8.0</b>	1828.891	1800.530	1792.098	1797.464	1790.565
<b>8.5</b>	1825.825	1796.697	1788.266	1793.631	1786.733
<b>9.0</b>	1821.992	1793.631	1785.200	1789.799	1782.900
<b>9.5</b>	1818.160	1789.799	1780.601	1785.200	1779.068
<b>10.0</b>	1814.327	1785.966	1776.768	1781.367	1774.469
<b>10.5</b>	1809.728	1781.367	1772.169	1776.768	1770.636
<b>11.0</b>	1805.895	1776.768	1767.570	1772.169	1765.270
<b>11.5</b>	1800.530	1772.169	1762.971	1767.570	1760.671
<b>12.0</b>	1795.931	1767.570	1758.372	1762.204	1755.306
<b>12.5</b>	1791.332	1762.204	1753.006	1756.839	1749.940
<b>13.0</b>	1785.966	1757.605	1747.641	1751.473	1744.575
<b>13.5</b>	1780.601	1751.473	1742.275	1745.341	1739.209
<b>14.0</b>	1775.235	1746.108	1736.143	1739.976	1733.844
<b>14.5</b>	1769.870	1740.742	1730.011	1733.844	1727.712
<b>15.0</b>	1764.504	1734.610	1723.879	1727.712	1721.579
<b>15.5</b>	1757.605	1729.245	1717.747	1720.813	1714.681
<b>16.0</b>	1749.940	1723.112	1710.848	1714.681	1708.549
<b>16.5</b>	1742.275	1716.214	1703.950	1707.782	1701.650
<b>17.0</b>	1735.377	1709.315	1697.051	1700.884	1694.752
<b>17.5</b>	1727.712	1701.650	1689.386	1693.219	1687.087
<b>18.0</b>	1720.046	1693.985	1681.721	1685.554	1679.421
<b>18.5</b>	1712.381	1686.320	1674.056	1677.122	1671.756
<b>19.0</b>	1704.716	1678.655	1667.157	1669.457	1662.558
<b>19.5</b>	1696.285	1670.990	1659.492	1660.259	1653.360
<b>20.0</b>	1688.620	1662.558	1652.594	1651.827	1644.162
<b>20.5</b>	1680.188	1654.893	1644.929	1642.629	1634.964
<b>21.0</b>	1671.756	1646.462	1636.497	1633.431	1624.999
<b>21.5</b>	1662.558	1638.030	1627.299	1624.233	1615.035
<b>22.0</b>	1654.127	1628.832	1617.334	1614.268	1605.837
<b>22.5</b>	1644.929	1619.634	1608.136	1604.304	1595.872
<b>23.0</b>	1635.730	1610.436	1598.938	1593.572	1585.907
<b>23.5</b>	1626.532	1601.238	1588.973	1583.608	1576.709
<b>24.0</b>	1616.568	1592.039	1579.775	1573.643	1566.745
<b>24.5</b>	1606.603	1582.075	1569.811	1563.679	1556.780
<b>25.0</b>	1597.405	1572.110	1559.846	1553.714	1546.815
<b>25.5</b>	1587.440	1562.146	1549.115	1543.749	1536.084
<b>26.0</b>	1576.709	1551.414	1539.150	1533.785	1526.120
<b>26.5</b>	1566.745	1541.450	1528.419	1523.820	1516.155

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27.0	1556.014	1530.719	1517.688	1513.856	1505.424
27.5	1545.282	1519.988	1507.723	1503.891	1495.459
28.0	1534.551	1508.490	1496.226	1493.160	1484.728
28.5	1523.054	1496.992	1485.495	1483.195	1473.997
29.0	1511.556	1486.261	1474.764	1472.464	1463.266
29.5	1500.825	1474.764	1464.032	1460.966	1453.301
30.0	1489.327	1463.266	1453.301	1450.235	1442.570
30.5	1477.830	1451.768	1441.804	1439.504	1431.839
31.0	1465.565	1441.037	1430.306	1428.006	1421.108
31.5	1454.068	1429.540	1418.808	1416.509	1409.610
32.0	1441.804	1417.275	1407.311	1404.245	1398.113
32.5	1429.540	1405.778	1395.813	1392.747	1385.848
33.0	1417.275	1394.280	1384.315	1381.249	1373.584
33.5	1405.778	1382.016	1372.051	1368.985	1362.087
34.0	1392.747	1369.752	1360.554	1356.721	1349.823
34.5	1380.483	1357.488	1347.523	1344.457	1336.792
35.0	1368.219	1345.990	1335.259	1332.193	1323.761
35.5	1355.188	1332.959	1322.995	1319.929	1310.731
36.0	1342.157	1320.695	1310.731	1306.898	1298.466
36.5	1329.893	1308.431	1298.466	1294.634	1286.202
37.0	1316.863	1295.400	1285.436	1281.603	1273.172
37.5	1303.832	1282.370	1273.172	1268.573	1260.907
38.0	1290.035	1269.339	1260.141	1255.542	1247.877
38.5	1277.004	1256.308	1247.110	1243.278	1234.846
39.0	1264.740	1243.278	1234.080	1230.247	1222.582
39.5	1250.943	1230.247	1221.816	1217.216	1208.785
40.0	1237.912	1216.450	1208.785	1204.186	1196.521
40.5	1224.115	1203.419	1195.754	1191.155	1183.490
41.0	1211.084	1189.622	1182.724	1177.358	1169.693
41.5	1197.287	1176.591	1168.926	1164.327	1155.896
42.0	1184.257	1162.794	1155.896	1151.297	1142.865
42.5	1171.226	1149.764	1142.865	1137.500	1129.834
43.0	1157.429	1136.733	1129.834	1124.469	1116.037
43.5	1144.398	1122.936	1116.037	1111.438	1103.007
44.0	1130.601	1109.139	1102.240	1097.641	1089.976
44.5	1116.804	1095.342	1088.443	1083.844	1076.179
45.0	1103.007	1082.311	1075.412	1070.047	1063.148
45.5	1089.976	1068.514	1061.615	1057.016	1050.117
46.0	1076.179	1054.717	1047.818	1043.219	1037.087
46.5	1062.382	1040.919	1034.787	1030.188	1024.056
47.0	1048.584	1027.122	1020.990	1016.391	1010.259
47.5	1034.021	1013.325	1007.193	1002.594	997.228
48.0	1020.224	999.528	993.396	989.563	983.431
48.5	1006.426	985.731	980.365	975.766	969.634
49.0	991.863	971.934	966.568	961.969	956.603
49.5	978.066	958.136	952.771	948.938	943.573
50.0	963.502	944.339	938.974	935.141	929.776
50.5	948.938	930.542	925.177	921.344	916.745
51.0	934.375	916.745	911.379	907.547	902.948
51.5	920.577	902.948	897.582	894.516	889.151
52.0	906.780	889.151	883.785	880.719	876.120
52.5	892.217	875.353	869.988	867.688	862.323
53.0	878.419	861.556	856.191	853.891	848.526
53.5	863.856	847.759	842.394	840.094	834.728
54.0	850.059	833.962	829.363	827.063	820.931
54.5	836.261	820.931	815.566	813.266	807.134

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55.0	822.464	807.901	802.535	800.236	794.103
55.5	809.434	794.103	788.738	786.438	781.073
56.0	794.870	780.306	774.941	773.408	767.276
56.5	781.073	767.276	761.527	759.840	753.785
57.0	768.042	753.478	747.960	746.120	740.371
57.5	754.552	740.141	734.469	732.783	726.804
58.0	741.061	726.957	720.902	719.369	713.390
58.5	727.494	713.697	707.565	706.185	700.513
59.0	714.157	700.359	694.151	692.848	687.405
59.5	701.203	686.869	680.507	679.587	674.451
60.0	687.942	673.455	667.016	666.250	661.267
60.5	674.835	660.348	653.986	652.836	647.930
61.0	661.957	647.240	641.032	639.729	634.900
61.5	648.160	634.286	628.154	626.698	622.022
62.0	634.593	620.949	614.817	613.744	608.838
62.5	620.719	608.608	602.246	601.403	596.344
63.0	607.382	597.724	592.588	592.205	588.066
63.5	593.891	585.843	581.780	580.937	576.645
64.0	585.766	574.269	570.589	568.903	563.997
64.5	573.119	561.928	557.942	556.409	551.810
65.0	558.938	548.744	545.448	543.992	539.546
65.5	544.451	535.407	532.417	531.727	527.205
66.0	530.501	522.376	519.693	519.387	514.558
66.5	516.704	509.039	506.739	506.739	502.447
67.0	503.060	495.778	493.938	494.168	490.259
67.5	489.646	482.747	481.061	481.521	477.688
68.0	476.079	469.717	468.184	468.797	464.811
68.5	462.435	456.456	455.230	456.073	452.164
69.0	448.331	443.119	442.199	442.659	439.056
69.5	434.611	430.012	428.939	429.475	426.179
70.0	421.043	416.751	415.984	416.214	413.302
70.5	407.706	403.414	402.877	403.107	400.348
71.0	394.062	390.153	390.000	390.306	387.317
71.5	380.418	376.893	377.199	377.429	374.823
72.0	367.158	363.555	364.168	364.475	362.252
72.5	353.897	350.448	351.444	351.751	349.911
73.0	340.790	337.647	339.027	339.410	337.801
73.5	328.066	325.000	326.610	327.299	325.536
74.0	315.495	312.352	314.345	314.882	313.732
74.5	302.924	299.935	302.158	302.694	301.851
75.0	290.277	287.594	290.124	290.660	289.970
75.5	277.783	275.253	278.166	278.856	278.090
76.0	265.136	263.373	266.362	267.128	266.515
76.5	253.178	251.645	254.634	255.477	254.941
77.0	241.527	239.841	243.137	243.903	243.060
77.5	229.493	228.343	231.639	232.252	231.409
78.0	217.765	216.845	220.141	221.061	220.218
78.5	206.114	205.654	208.797	209.870	209.180
79.0	194.923	194.463	197.683	198.986	198.449
79.5	183.732	183.502	186.722	188.101	187.641
80.0	172.695	172.771	175.761	177.677	177.064
80.5	161.580	162.270	165.336	167.176	166.716
81.0	150.926	151.999	154.988	156.904	156.598
81.5	140.654	141.804	144.870	146.786	146.557
82.0	131.073	131.840	134.982	136.975	136.745
82.5	121.492	122.182	125.248	127.241	127.087

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83.0	111.910	112.983	115.666	117.736	117.889
83.5	102.482	103.785	106.391	108.384	108.844
84.0	93.667	94.741	97.193	99.110	99.799
84.5	84.699	85.849	88.149	90.065	90.755
85.0	76.344	77.264	79.410	81.097	81.710
85.5	68.219	68.679	70.519	72.282	72.895
86.0	60.248	60.401	62.011	63.620	64.387
86.5	52.353	52.353	53.809	55.265	55.955
87.0	44.381	44.381	45.454	47.294	47.830
87.5	36.486	36.562	37.559	39.399	40.088
88.0	28.974	28.897	29.894	31.887	32.653
88.5	21.769	21.309	22.612	24.375	25.448
89.0	14.104	13.874	15.637	17.323	18.473
89.5	6.515	7.742	9.351	10.654	11.038
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.821	2.541	2.346	2.280	2.476
91.0	10.620	5.603	4.561	4.496	4.430
91.5	17.070	11.402	6.776	6.711	6.646
92.0	23.585	18.960	9.773	8.731	8.731
92.5	30.361	26.778	15.116	10.946	10.750
93.0	37.398	34.271	21.370	14.529	13.096
93.5	44.500	41.437	28.081	19.611	17.070
94.0	51.471	48.474	35.509	25.670	22.478
94.5	58.638	55.511	43.262	31.925	28.342
95.0	65.675	62.743	50.885	38.310	34.140
95.5	72.711	69.519	58.312	44.891	40.265
96.0	79.422	76.425	65.609	51.732	46.519
96.5	86.198	83.331	72.907	58.703	52.970
97.0	92.778	90.107	80.139	65.675	59.811
97.5	99.554	96.948	87.436	72.776	66.652
98.0	106.265	103.659	94.537	79.813	73.558
98.5	112.976	110.435	101.378	86.980	80.464
99.0	119.817	117.406	108.350	93.821	87.436
99.5	126.723	124.312	115.386	100.662	94.277
100.0	133.499	131.284	122.423	107.698	100.988
100.5	140.536	138.255	129.460	114.996	107.764
101.0	147.768	145.227	136.626	122.358	115.126
101.5	155.130	152.328	143.924	129.720	122.749
102.0	162.297	159.691	151.221	137.082	130.307
102.5	169.789	166.988	158.779	144.445	137.799
103.0	177.478	174.546	166.271	151.742	145.422
103.5	185.166	182.234	174.220	159.560	152.980
104.0	193.049	189.987	182.299	167.639	160.863
104.5	201.193	198.066	190.378	175.914	168.747
105.0	209.533	206.340	198.392	184.058	176.761
105.5	218.068	214.745	206.666	192.267	184.710
106.0	226.733	223.215	215.071	200.607	192.658
106.5	235.464	231.946	223.867	209.012	200.672
107.0	244.781	241.067	233.249	217.938	209.403
107.5	254.424	250.449	242.761	227.385	218.850
108.0	264.001	260.092	252.469	237.614	228.558
108.5	274.100	269.930	262.177	247.843	238.591
109.0	284.459	279.964	272.145	258.202	248.755
109.5	295.079	290.388	282.635	268.497	259.049
110.0	306.416	301.073	293.385	279.051	269.800
110.5	318.013	312.019	304.396	290.388	280.941

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111.0	329.741	323.486	315.798	302.181	292.147
111.5	341.729	335.279	327.395	314.169	303.679
112.0	354.173	347.397	338.927	326.157	314.690
112.5	366.683	359.842	350.590	338.080	326.353
113.0	379.778	372.677	362.904	350.394	338.536
113.5	393.265	386.098	375.934	363.686	351.632
114.0	406.947	399.780	389.747	377.824	366.161
114.5	421.086	413.919	403.820	392.548	381.603
115.0	435.419	428.448	418.414	407.403	397.240
115.5	450.405	443.107	433.400	422.193	412.681
116.0	465.520	458.353	448.906	437.765	428.383
116.5	481.483	473.990	464.934	453.727	445.127
117.0	498.097	489.953	481.092	470.928	462.393
117.5	510.346	502.397	495.882	486.760	479.919
118.0	525.982	516.926	511.062	503.114	495.491
118.5	544.160	534.257	526.569	518.294	509.499
119.0	561.947	551.327	544.160	535.495	525.070
119.5	579.929	569.505	562.794	552.956	542.531
120.0	598.498	588.334	581.493	572.046	560.970
120.5	616.936	607.424	600.778	592.308	580.646
121.0	636.287	626.905	620.194	612.506	601.560
121.5	655.442	646.190	639.545	632.964	622.018
122.0	675.639	665.866	660.003	653.487	642.542
122.5	695.185	685.412	680.200	673.685	661.957
123.0	715.383	706.261	701.049	695.837	683.458
123.5	736.232	727.111	723.201	717.989	705.610
124.0	757.081	748.611	744.702	740.141	728.414
124.5	777.930	769.460	766.203	761.642	750.566
125.0	798.779	790.309	787.052	783.142	772.066
125.5	820.280	811.810	808.552	804.643	792.915
126.0	841.129	832.659	830.704	826.144	813.764
126.5	861.978	853.508	852.856	848.947	835.917
127.0	883.478	875.008	875.008	871.751	859.372
127.5	904.979	895.858	895.858	893.903	882.827
128.0	925.828	916.707	917.358	916.055	904.979
128.5	946.677	936.904	938.207	938.207	926.480
129.0	967.526	957.102	959.056	959.708	948.632
129.5	988.375	977.951	980.557	981.860	971.435
130.0	1009.224	998.800	1002.057	1004.012	995.542
130.5	1030.073	1018.997	1024.209	1025.513	1018.346
131.0	1050.922	1039.195	1045.059	1046.362	1039.195
131.5	1070.468	1058.741	1065.908	1065.908	1059.392
132.0	1090.666	1078.287	1086.105	1086.757	1078.938
132.5	1110.212	1098.484	1106.303	1106.954	1098.484
133.0	1129.758	1118.682	1125.849	1127.152	1117.379
133.5	1149.304	1138.228	1146.046	1147.349	1137.576
134.0	1168.850	1157.122	1164.941	1166.895	1157.122
134.5	1186.441	1176.017	1183.183	1184.487	1176.017
135.0	1204.033	1194.260	1200.775	1202.078	1192.956
135.5	1220.972	1213.154	1218.366	1219.018	1209.896
136.0	1237.912	1230.745	1234.655	1236.609	1227.488
136.5	1255.504	1247.685	1250.943	1254.201	1245.731
137.0	1271.792	1264.625	1267.883	1270.489	1262.670
137.5	1288.080	1280.262	1283.520	1285.474	1277.656
138.0	1303.717	1295.899	1298.505	1299.808	1291.989
138.5	1319.354	1310.884	1313.490	1314.142	1305.672

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1334.339	1325.869	1328.475	1328.475	1319.354
139.5	1349.324	1340.854	1342.809	1342.157	1332.384
140.0	1363.658	1354.537	1357.143	1356.491	1346.718
140.5	1377.340	1367.567	1370.173	1369.522	1359.097
141.0	1391.022	1381.249	1383.204	1381.901	1371.476
141.5	1403.402	1393.629	1396.235	1394.280	1382.552
142.0	1416.432	1406.659	1408.614	1406.008	1394.280
142.5	1428.811	1419.038	1420.993	1418.387	1405.356
143.0	1441.190	1430.766	1432.721	1430.114	1417.084
143.5	1452.918	1443.145	1444.448	1441.842	1428.160
144.0	1463.994	1454.873	1455.524	1452.266	1438.584
144.5	1475.070	1465.949	1466.600	1462.691	1449.009
145.0	1485.495	1477.025	1477.025	1472.464	1458.782
145.5	1496.571	1488.101	1487.449	1483.540	1469.206
146.0	1506.995	1498.525	1497.874	1493.313	1479.631
146.5	1517.420	1508.950	1507.647	1503.738	1490.055
147.0	1527.193	1519.374	1516.768	1514.162	1500.480
147.5	1536.966	1529.147	1526.541	1523.935	1510.253
148.0	1546.739	1538.920	1535.011	1533.057	1520.677
148.5	1556.512	1548.693	1543.481	1542.178	1531.102
149.0	1565.633	1558.466	1551.951	1551.299	1541.526
149.5	1574.755	1567.588	1559.769	1560.421	1551.299
150.0	1583.876	1576.709	1568.239	1568.891	1560.421
150.5	1592.998	1585.831	1576.058	1576.709	1569.542
151.0	1601.467	1594.301	1583.876	1584.528	1578.012
151.5	1610.589	1602.771	1592.346	1592.346	1585.831
152.0	1619.059	1611.240	1600.164	1599.513	1593.649
152.5	1627.529	1619.059	1607.983	1607.331	1600.816
153.0	1635.999	1626.877	1615.801	1615.150	1607.331
153.5	1643.817	1634.696	1623.620	1622.968	1613.195
154.0	1651.636	1642.514	1632.090	1630.786	1619.710
154.5	1660.105	1649.681	1639.908	1637.953	1626.226
155.0	1667.924	1656.848	1647.726	1645.772	1633.393
155.5	1675.091	1663.363	1655.545	1653.590	1640.559
156.0	1682.258	1670.530	1664.015	1660.757	1647.726
156.5	1689.424	1677.697	1671.833	1668.575	1654.893
157.0	1696.591	1684.864	1679.651	1676.394	1662.060
157.5	1703.107	1691.379	1686.818	1683.561	1669.227
158.0	1709.622	1697.894	1693.985	1690.727	1676.394
158.5	1716.789	1705.061	1701.152	1697.894	1684.212
159.0	1722.653	1711.577	1707.667	1705.061	1691.379
159.5	1729.168	1718.092	1714.183	1712.228	1698.546
160.0	1735.032	1723.956	1720.698	1718.743	1705.713
160.5	1740.896	1729.819	1726.562	1725.259	1712.880
161.0	1746.759	1735.683	1732.426	1731.774	1720.046
161.5	1752.623	1742.199	1737.638	1738.289	1727.213
162.0	1759.138	1748.062	1742.850	1744.805	1733.729
162.5	1765.002	1753.926	1748.062	1750.668	1739.592
163.0	1770.866	1759.790	1753.275	1756.532	1745.456
163.5	1776.730	1765.002	1758.487	1762.396	1750.668
164.0	1782.594	1770.214	1763.048	1767.608	1755.881
164.5	1787.154	1775.427	1767.608	1772.821	1761.093
165.0	1792.367	1780.639	1772.169	1778.033	1766.654
165.5	1797.579	1785.200	1776.730	1782.594	1770.214
166.0	1802.791	1789.760	1781.291	1787.154	1774.124
166.5	1808.003	1794.321	1785.851	1791.064	1778.684

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1812.564	1798.230	1789.760	1794.973	1782.594
167.5	1817.125	1802.140	1794.321	1798.882	1787.154
168.0	1821.686	1806.049	1798.230	1802.791	1791.064
168.5	1826.246	1809.958	1802.140	1806.700	1795.624
169.0	1830.155	1813.216	1806.049	1809.958	1799.533
169.5	1833.413	1816.473	1809.306	1813.216	1803.443
170.0	1836.671	1819.731	1812.564	1816.473	1808.003
170.5	1839.928	1822.989	1815.170	1819.731	1811.261
171.0	1843.186	1825.595	1817.776	1822.989	1814.519
171.5	1845.792	1828.201	1820.382	1826.246	1817.776
172.0	1848.398	1830.807	1822.337	1828.852	1820.382
172.5	1851.005	1833.413	1824.292	1830.807	1822.337
173.0	1853.611	1836.019	1826.246	1833.413	1823.640
173.5	1855.565	1837.974	1828.201	1834.716	1824.943
174.0	1857.520	1839.928	1830.155	1836.019	1825.595
174.5	1858.823	1841.232	1831.459	1837.322	1826.246
175.0	1860.126	1843.186	1832.762	1837.974	1826.246
175.5	1861.429	1844.489	1834.716	1838.625	1826.898
176.0	1862.732	1845.792	1836.019	1838.625	1826.898
176.5	1863.384	1847.095	1836.671	1839.277	1826.898
177.0	1864.035	1848.398	1837.974	1839.277	1826.246
177.5	1865.338	1849.701	1839.277	1839.277	1826.246
178.0	1865.990	1849.701	1839.928	1839.277	1826.898
178.5	1865.990	1850.353	1840.580	1839.277	1826.898
179.0	1866.641	1851.005	1840.580	1839.277	1826.898
179.5	1867.293	1851.005	1841.232	1839.277	1826.898
180.0	1844.489	1844.489	1844.489	1844.489	1844.489



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	660.42	N.A.	7.00
0-30	1380.71	N.A.	14.70
0-40	2218.13	N.A.	23.70
0-60	3769.1	N.A.	40.20
0-80	4615.68	N.A.	49.30
0-90	4705.13	N.A.	50.20
10-90	4532.75	N.A.	48.40
20-40	1557.71	N.A.	16.60
20-50	2389.02	N.A.	25.50
40-70	2089.98	N.A.	22.30
60-80	846.58	N.A.	9.00
70-80	307.57	N.A.	3.30
80-90	89.45	N.A.	1.00
90-110	266.93	N.A.	2.80
90-120	685.23	N.A.	7.30
90-130	1388.17	N.A.	14.80
90-150	3228.77	N.A.	34.50
90-180	4666.43	N.A.	49.80
110-180	4399.5	N.A.	46.90
0-180	9371.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	172.38
10-20	488.04
20-30	720.29
30-40	837.42
40-50	831.31
50-60	719.66
60-70	539.01
70-80	307.57
80-90	89.45
90-100	57.57
100-110	209.36
110-120	418.30
120-130	702.94
130-140	919.15
140-150	921.45
150-160	761.17
160-170	501.58
170-180	174.92

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L8-830D-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-L15-830U-L8-830D-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	16.6	17.5	17.6	18.5	19.7	16.5	17.4	17.5	18.4	19.6
	3H	18.4	19.2	19.4	20.1	21.4	18.3	19.1	19.3	20.1	21.3
	4H	19.0	19.7	20.0	20.7	22.0	18.9	19.7	19.9	20.6	21.9
	6H	19.4	20.1	20.4	21.1	22.4	19.4	20.1	20.4	21.1	22.4
	8H	19.6	20.2	20.6	21.2	22.5	19.5	20.2	20.5	21.2	22.5
	12H	19.6	20.3	20.6	21.3	22.6	19.6	20.2	20.6	21.2	22.6

### UGR Viewed Endwise

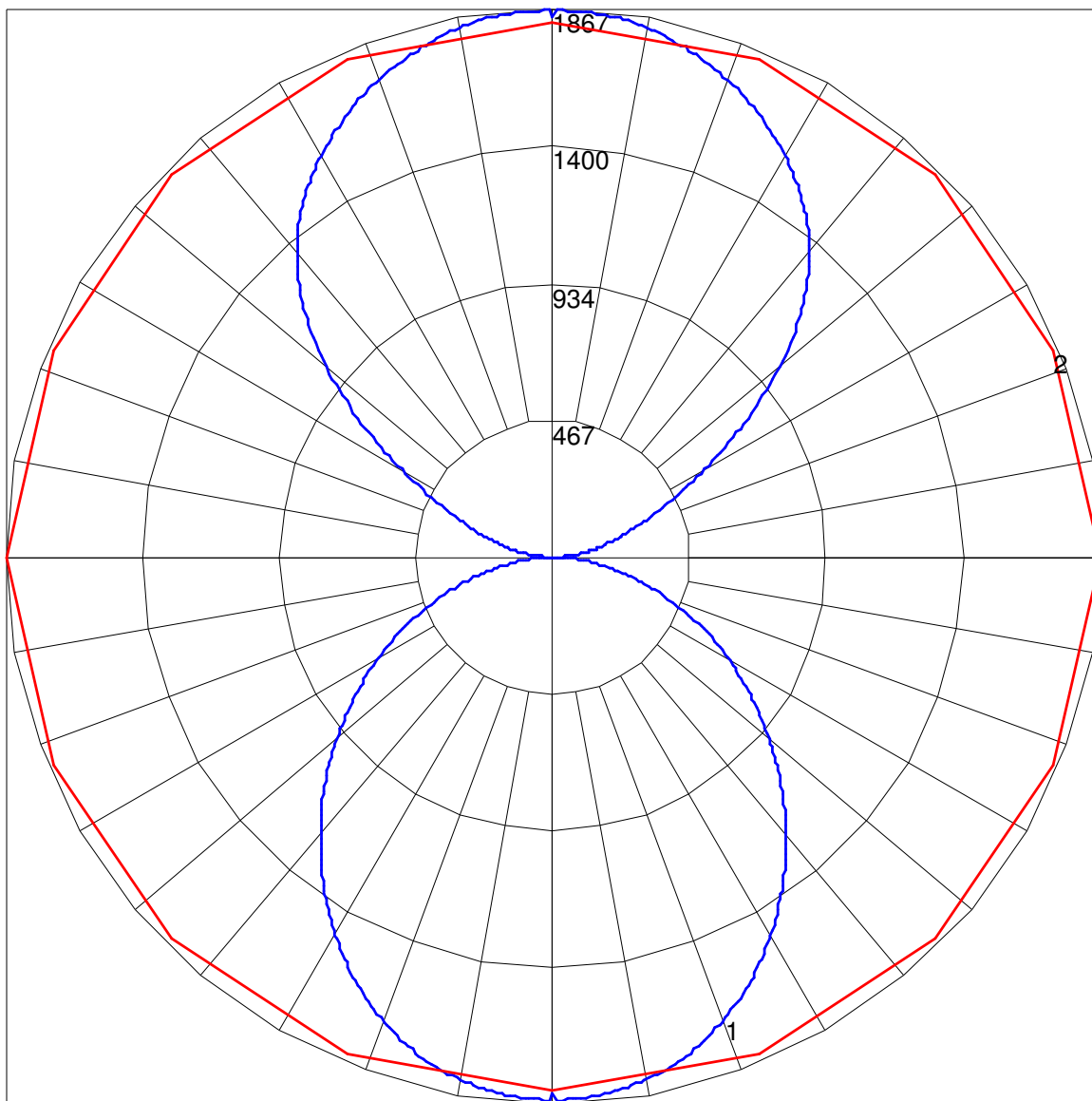
4H	2H	17.2	17.9	18.2	18.9	20.2	17.1	17.8	18.1	18.8	20.1
	3H	19.1	19.7	20.1	20.8	22.1	19.1	19.7	20.1	20.7	22.0
	4H	19.9	20.4	20.9	21.4	22.8	19.8	20.4	20.8	21.4	22.7
	6H	20.4	20.9	21.4	21.9	23.3	20.4	20.9	21.4	21.9	23.3
	8H	20.6	21.1	21.6	22.1	23.4	20.6	21.1	21.6	22.1	23.4
	12H	20.7	21.1	21.8	22.2	23.5	20.7	21.1	21.8	22.2	23.5

8H	4H	20.1	20.6	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.8	21.2	21.8	22.2	23.6	20.8	21.2	21.8	22.2	23.6
	8H	21.1	21.4	22.1	22.4	23.8	21.1	21.4	22.1	22.5	23.8
	12H	21.3	21.5	22.3	22.6	24.0	21.3	21.6	22.4	22.6	24.0

12H	4H	20.1	20.5	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.8	21.2	21.9	22.2	23.6	20.8	21.2	21.9	22.2	23.6
	8H	21.1	21.4	22.2	22.5	23.9	21.2	21.4	22.2	22.5	23.9

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1867.293 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.)