

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #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-L8-850U-L12-850D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[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	8822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	67.7
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	11967	11667	11534
55	11000	10734	10621
65	10146	9901	9794
75	8604	8599	8595
85	6720	6990	7192

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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	1736.358	1736.358	1736.358	1736.358	1736.358
0.5	1762.578	1737.814	1729.074	1732.716	1726.889
1.0	1762.578	1737.086	1729.074	1732.716	1726.889
1.5	1761.850	1736.358	1728.346	1732.716	1726.161
2.0	1761.121	1735.629	1727.618	1731.988	1726.161
2.5	1760.393	1734.901	1726.161	1731.259	1725.433
3.0	1758.936	1733.444	1725.433	1730.531	1723.976
3.5	1757.480	1731.988	1723.976	1729.074	1722.519
4.0	1756.023	1730.531	1722.519	1727.618	1721.063
4.5	1754.566	1728.346	1721.063	1726.161	1718.878
5.0	1753.110	1726.889	1718.878	1723.976	1716.693
5.5	1750.925	1724.704	1716.693	1721.791	1714.508
6.0	1748.740	1721.791	1714.508	1719.606	1711.594
6.5	1745.826	1719.606	1711.594	1716.693	1709.409
7.0	1743.641	1716.693	1709.409	1713.779	1706.496
7.5	1741.456	1713.779	1706.496	1710.866	1704.311
8.0	1737.814	1710.866	1702.854	1707.953	1701.398
8.5	1734.901	1707.224	1699.213	1704.311	1697.756
9.0	1731.259	1704.311	1696.299	1700.669	1694.114
9.5	1727.618	1700.669	1691.929	1696.299	1690.473
10.0	1723.976	1697.028	1688.288	1692.658	1686.102
10.5	1719.606	1692.658	1683.917	1688.288	1682.461
11.0	1715.964	1688.288	1679.547	1683.917	1677.362
11.5	1710.866	1683.917	1675.177	1679.547	1672.992
12.0	1706.496	1679.547	1670.807	1674.449	1667.894
12.5	1702.126	1674.449	1665.709	1669.351	1662.796
13.0	1697.028	1670.079	1660.611	1664.252	1657.697
13.5	1691.929	1664.252	1655.512	1658.426	1652.599
14.0	1686.831	1659.154	1649.686	1653.327	1647.501
14.5	1681.732	1654.056	1643.859	1647.501	1641.674
15.0	1676.634	1648.229	1638.032	1641.674	1635.847
15.5	1670.079	1643.131	1632.205	1635.119	1629.292
16.0	1662.796	1637.304	1625.650	1629.292	1623.465
16.5	1655.512	1630.749	1619.095	1622.737	1616.910
17.0	1648.957	1624.194	1612.540	1616.182	1610.355
17.5	1641.674	1616.910	1605.257	1608.899	1603.072
18.0	1634.390	1609.627	1597.974	1601.615	1595.789
18.5	1627.107	1602.344	1590.690	1593.604	1588.505
19.0	1619.824	1595.060	1584.135	1586.320	1579.765
19.5	1611.812	1587.777	1576.852	1577.580	1571.025
20.0	1604.529	1579.765	1570.297	1569.568	1562.285
20.5	1596.517	1572.482	1563.013	1560.828	1553.545
21.0	1588.505	1564.470	1555.002	1552.088	1544.077
21.5	1579.765	1556.458	1546.262	1543.348	1534.608
22.0	1571.753	1547.718	1536.793	1533.880	1525.868
22.5	1563.013	1538.978	1528.053	1524.411	1516.400
23.0	1554.273	1530.238	1519.313	1514.215	1506.931
23.5	1545.533	1521.498	1509.845	1504.746	1498.191
24.0	1536.065	1512.758	1501.105	1495.278	1488.723
24.5	1526.596	1503.290	1491.636	1485.810	1479.255
25.0	1517.856	1493.821	1482.168	1476.341	1469.786
25.5	1508.388	1484.353	1471.971	1466.873	1459.589
26.0	1498.191	1474.156	1462.503	1457.404	1450.121
26.5	1488.723	1464.688	1452.306	1447.936	1440.653

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1478.526	1454.491	1442.109	1438.468	1430.456
27.5	1468.329	1444.294	1432.641	1428.999	1420.987
28.0	1458.133	1433.369	1421.716	1418.802	1410.791
28.5	1447.208	1422.444	1411.519	1409.334	1400.594
29.0	1436.283	1412.247	1401.322	1399.137	1390.397
29.5	1426.086	1401.322	1391.126	1388.212	1380.929
30.0	1415.161	1390.397	1380.929	1378.016	1370.732
30.5	1404.236	1379.472	1370.004	1367.819	1360.535
31.0	1392.582	1369.275	1359.079	1356.894	1350.339
31.5	1381.657	1358.350	1348.154	1345.969	1339.414
32.0	1370.004	1346.697	1337.229	1334.315	1328.489
32.5	1358.350	1335.772	1326.304	1323.390	1316.835
33.0	1346.697	1324.847	1315.378	1312.465	1305.182
33.5	1335.772	1313.193	1303.725	1300.812	1294.257
34.0	1323.390	1301.540	1292.800	1289.158	1282.603
34.5	1311.737	1289.887	1280.418	1277.505	1270.221
35.0	1300.083	1278.962	1268.765	1265.851	1257.840
35.5	1287.702	1266.580	1257.111	1254.198	1245.458
36.0	1275.320	1254.926	1245.458	1241.816	1233.805
36.5	1263.666	1243.273	1233.805	1230.163	1222.151
37.0	1251.285	1230.891	1221.423	1217.781	1209.769
37.5	1238.903	1218.509	1209.769	1205.399	1198.116
38.0	1225.793	1206.128	1197.388	1193.018	1185.734
38.5	1213.411	1193.746	1185.006	1181.364	1173.353
39.0	1201.758	1181.364	1172.624	1168.983	1161.699
39.5	1188.648	1168.983	1160.971	1156.601	1148.589
40.0	1176.266	1155.872	1148.589	1144.219	1136.936
40.5	1163.156	1143.491	1136.207	1131.837	1124.554
41.0	1150.774	1130.381	1123.826	1118.727	1111.444
41.5	1137.664	1117.999	1110.715	1106.345	1098.334
42.0	1125.282	1104.889	1098.334	1093.964	1085.952
42.5	1112.900	1092.507	1085.952	1080.854	1073.570
43.0	1099.790	1080.125	1073.570	1068.472	1060.460
43.5	1087.409	1067.015	1060.460	1056.090	1048.078
44.0	1074.299	1053.905	1047.350	1042.980	1035.697
44.5	1061.188	1040.795	1034.240	1029.870	1022.587
45.0	1048.078	1028.413	1021.858	1016.760	1010.205
45.5	1035.697	1015.303	1008.748	1004.378	997.823
46.0	1022.587	1002.193	995.638	991.268	985.441
46.5	1009.476	989.083	983.256	978.886	973.060
47.0	996.366	975.973	970.146	965.776	959.949
47.5	982.528	962.863	957.036	952.666	947.568
48.0	969.418	949.753	943.926	940.284	934.458
48.5	956.308	936.643	931.544	927.174	921.348
49.0	942.469	923.533	918.434	914.064	908.966
49.5	929.359	910.423	905.324	901.682	896.584
50.0	915.521	897.312	892.214	888.572	883.474
50.5	901.682	884.202	879.104	875.462	871.092
51.0	887.844	871.092	865.994	862.352	857.982
51.5	874.734	857.982	852.884	849.970	844.872
52.0	861.624	844.872	839.774	836.860	832.490
52.5	847.785	831.762	826.664	824.479	819.380
53.0	834.675	818.652	813.554	811.369	806.270
53.5	820.837	805.542	800.443	798.258	793.160
54.0	807.727	792.432	788.062	785.877	780.050
54.5	794.617	780.050	774.952	772.767	766.940

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55.0	781.507	767.668	762.570	760.385	754.558
55.5	769.125	754.558	749.460	747.275	742.176
56.0	755.287	741.448	736.350	734.893	729.066
56.5	742.176	729.066	723.604	722.001	716.248
57.0	729.795	715.956	710.712	708.964	703.502
57.5	716.976	703.283	697.894	696.291	690.610
58.0	704.157	690.756	685.002	683.545	677.864
58.5	691.266	678.155	672.329	671.018	665.628
59.0	678.593	665.482	659.583	658.345	653.173
59.5	666.284	652.664	646.618	645.745	640.865
60.0	653.683	639.918	633.800	633.071	628.337
60.5	641.229	627.463	621.418	620.325	615.664
61.0	628.993	615.009	609.109	607.871	603.282
61.5	615.883	602.700	596.873	595.489	591.046
62.0	602.991	590.027	584.200	583.180	578.519
62.5	589.808	578.300	572.255	571.454	566.647
63.0	577.135	567.958	563.078	562.714	558.781
63.5	564.316	556.669	552.809	552.007	547.929
64.0	556.596	545.671	542.175	540.573	535.911
64.5	544.578	533.945	530.157	528.701	524.331
65.0	531.104	521.417	518.285	516.901	512.677
65.5	517.339	508.744	505.904	505.248	500.951
66.0	504.083	496.362	493.813	493.522	488.933
66.5	490.973	483.689	481.504	481.504	477.426
67.0	478.008	471.089	469.341	469.560	465.845
67.5	465.262	458.707	457.105	457.542	453.900
68.0	452.371	446.325	444.869	445.452	441.664
68.5	439.406	433.725	432.560	433.361	429.647
69.0	426.005	421.052	420.178	420.615	417.192
69.5	412.968	408.598	407.578	408.088	404.956
70.0	400.076	395.997	395.269	395.488	392.720
70.5	387.403	383.324	382.814	383.033	380.411
71.0	374.439	370.724	370.578	370.870	368.029
71.5	361.474	358.124	358.415	358.634	356.157
72.0	348.874	345.451	346.033	346.325	344.213
72.5	336.274	332.996	333.943	334.234	332.486
73.0	323.819	320.833	322.144	322.508	320.979
73.5	311.729	308.815	310.345	311.000	309.325
74.0	299.784	296.798	298.691	299.201	298.109
74.5	287.839	284.999	287.111	287.621	286.819
75.0	275.822	273.272	275.676	276.186	275.530
75.5	263.950	261.546	264.314	264.969	264.241
76.0	251.932	250.257	253.098	253.826	253.243
76.5	240.570	239.113	241.954	242.755	242.245
77.0	229.499	227.897	231.029	231.757	230.956
77.5	218.064	216.972	220.104	220.686	219.885
78.0	206.921	206.047	209.179	210.053	209.252
78.5	195.850	195.413	198.399	199.419	198.763
79.0	185.216	184.779	187.838	189.077	188.567
79.5	174.583	174.364	177.423	178.734	178.297
80.0	164.095	164.167	167.008	168.829	168.246
80.5	153.534	154.189	157.102	158.850	158.414
81.0	143.410	144.429	147.270	149.091	148.799
81.5	133.650	134.743	137.656	139.477	139.258
82.0	124.546	125.274	128.260	130.154	129.935
82.5	115.442	116.097	119.010	120.904	120.758

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83.0	106.337	107.357	109.906	111.873	112.018
83.5	97.379	98.617	101.093	102.987	103.424
84.0	89.003	90.023	92.353	94.174	94.830
84.5	80.481	81.574	83.759	85.580	86.235
85.0	72.542	73.416	75.456	77.058	77.641
85.5	64.822	65.259	67.007	68.682	69.265
86.0	57.247	57.393	58.923	60.452	61.180
86.5	49.745	49.745	51.129	52.513	53.169
87.0	42.171	42.171	43.190	44.938	45.448
87.5	34.669	34.742	35.689	37.437	38.092
88.0	27.531	27.458	28.405	30.299	31.027
88.5	20.685	20.248	21.486	23.161	24.181
89.0	13.401	13.183	14.858	16.460	17.553
89.5	6.191	7.356	8.886	10.124	10.488
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.495	2.369	2.187	2.126	2.308
91.0	9.902	5.224	4.252	4.192	4.131
91.5	15.916	10.631	6.318	6.257	6.196
92.0	21.991	17.678	9.112	8.140	8.140
92.5	28.309	24.968	14.094	10.206	10.024
93.0	34.870	31.954	19.926	13.547	12.211
93.5	41.492	38.637	26.183	18.286	15.916
94.0	47.992	45.198	33.109	23.935	20.959
94.5	54.675	51.759	40.338	29.767	26.426
95.0	61.236	58.502	47.446	35.721	31.833
95.5	67.797	64.820	54.371	41.857	37.543
96.0	74.054	71.260	61.175	48.235	43.375
96.5	80.372	77.699	67.979	54.736	49.390
97.0	86.508	84.017	74.722	61.236	55.768
97.5	92.826	90.396	81.526	67.858	62.147
98.0	99.083	96.653	88.148	74.419	68.587
98.5	105.340	102.971	94.527	81.101	75.026
99.0	111.719	109.471	101.027	87.480	81.526
99.5	118.159	115.911	107.588	93.859	87.905
100.0	124.477	122.411	114.149	100.420	94.162
100.5	131.038	128.911	120.710	107.224	100.480
101.0	137.781	135.412	127.393	114.088	107.345
101.5	144.646	142.033	134.197	120.953	114.453
102.0	151.328	148.898	141.001	127.818	121.500
102.5	158.314	155.702	148.048	134.683	128.486
103.0	165.483	162.749	155.034	141.487	135.594
103.5	172.651	169.918	162.445	148.777	142.641
104.0	180.002	177.147	169.978	156.310	149.992
104.5	187.596	184.680	177.511	164.025	157.342
105.0	195.372	192.395	184.984	171.619	164.815
105.5	203.330	200.232	192.699	179.273	172.226
106.0	211.410	208.129	200.536	187.049	179.638
106.5	219.550	216.270	208.737	194.886	187.110
107.0	228.238	224.775	217.485	203.209	195.250
107.5	237.229	233.523	226.354	212.017	204.059
108.0	246.159	242.514	235.406	221.555	213.111
108.5	255.575	251.687	244.458	231.093	222.466
109.0	265.234	261.043	253.753	240.752	231.943
109.5	275.137	270.763	263.533	250.351	241.542
110.0	285.707	280.726	273.557	260.192	251.566
110.5	296.521	290.932	283.824	270.763	261.954

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111.0	307.456	301.624	294.455	281.758	272.403
111.5	318.634	312.619	305.269	292.936	283.156
112.0	330.237	323.919	316.021	304.114	293.422
112.5	341.901	335.522	326.896	315.232	304.297
113.0	354.112	347.490	338.377	326.713	315.657
113.5	366.687	360.004	350.527	339.106	327.868
114.0	379.444	372.762	363.406	352.289	341.415
114.5	392.627	385.945	376.528	366.019	355.813
115.0	405.992	399.492	390.136	379.870	370.393
115.5	419.965	413.161	404.109	393.660	384.790
116.0	434.059	427.376	418.567	408.179	399.431
116.5	448.942	441.956	433.512	423.063	415.044
117.0	464.434	456.840	448.578	439.101	431.143
117.5	475.855	468.443	462.368	453.863	447.484
118.0	490.435	481.990	476.523	469.111	462.004
118.5	507.384	498.150	490.981	483.266	475.065
119.0	523.969	514.066	507.384	499.304	489.584
119.5	540.736	531.016	524.758	515.585	505.865
120.0	558.049	548.572	542.194	533.385	523.057
120.5	575.242	566.372	560.176	552.278	541.404
121.0	593.284	584.536	578.279	571.111	560.905
121.5	611.145	602.518	596.322	590.186	579.980
122.0	629.977	620.865	615.397	609.322	599.116
122.5	648.202	639.090	634.230	628.155	617.220
123.0	667.035	658.530	653.670	648.810	637.267
123.5	686.475	677.970	674.325	669.465	657.922
124.0	705.915	698.017	694.372	690.120	679.185
124.5	725.355	717.457	714.420	710.167	699.840
125.0	744.795	736.897	733.860	730.215	719.887
125.5	764.842	756.945	753.907	750.262	739.327
126.0	784.282	776.385	774.562	770.310	758.767
126.5	803.722	795.825	795.217	791.572	779.422
127.0	823.770	815.872	815.872	812.835	801.292
127.5	843.817	835.312	835.312	833.490	823.162
128.0	863.257	854.752	855.360	854.145	843.817
128.5	882.697	873.585	874.800	874.800	863.865
129.0	902.137	892.417	894.240	894.847	884.520
129.5	921.577	911.857	914.287	915.502	905.782
130.0	941.017	931.297	934.335	936.157	928.260
130.5	960.457	950.130	954.990	956.205	949.522
131.0	979.897	968.962	974.430	975.645	968.962
131.5	998.122	987.187	993.870	993.870	987.795
132.0	1016.955	1005.412	1012.702	1013.310	1006.020
132.5	1035.180	1024.245	1031.535	1032.142	1024.245
133.0	1053.405	1043.077	1049.760	1050.975	1041.862
133.5	1071.630	1061.302	1068.592	1069.807	1060.695
134.0	1089.855	1078.920	1086.210	1088.032	1078.920
134.5	1106.257	1096.537	1103.220	1104.435	1096.537
135.0	1122.660	1113.547	1119.622	1120.837	1112.332
135.5	1138.455	1131.165	1136.025	1136.632	1128.127
136.0	1154.250	1147.567	1151.212	1153.035	1144.530
136.5	1170.652	1163.362	1166.400	1169.437	1161.540
137.0	1185.840	1179.157	1182.195	1184.625	1177.335
137.5	1201.027	1193.737	1196.775	1198.597	1191.307
138.0	1215.607	1208.317	1210.747	1211.962	1204.672
138.5	1230.187	1222.290	1224.720	1225.327	1217.430

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1244.160	1236.262	1238.692	1238.692	1230.187
139.5	1258.132	1250.235	1252.057	1251.450	1242.337
140.0	1271.497	1262.992	1265.422	1264.815	1255.702
140.5	1284.255	1275.142	1277.572	1276.965	1267.245
141.0	1297.012	1287.900	1289.722	1288.507	1278.787
141.5	1308.555	1299.442	1301.872	1300.050	1289.115
142.0	1320.705	1311.592	1313.415	1310.985	1300.050
142.5	1332.247	1323.135	1324.957	1322.527	1310.377
143.0	1343.790	1334.070	1335.892	1333.462	1321.312
143.5	1354.725	1345.612	1346.827	1344.397	1331.640
144.0	1365.052	1356.547	1357.155	1354.117	1341.360
144.5	1375.380	1366.875	1367.482	1363.837	1351.080
145.0	1385.100	1377.202	1377.202	1372.950	1360.192
145.5	1395.427	1387.530	1386.922	1383.277	1369.912
146.0	1405.147	1397.250	1396.642	1392.390	1379.632
146.5	1414.867	1406.970	1405.755	1402.110	1389.352
147.0	1423.980	1416.690	1414.260	1411.830	1399.072
147.5	1433.092	1425.802	1423.372	1420.942	1408.185
148.0	1442.205	1434.915	1431.270	1429.447	1417.905
148.5	1451.317	1444.027	1439.167	1437.952	1427.625
149.0	1459.822	1453.140	1447.065	1446.457	1437.345
149.5	1468.327	1461.645	1454.355	1454.962	1446.457
150.0	1476.832	1470.150	1462.252	1462.860	1454.962
150.5	1485.337	1478.655	1469.542	1470.150	1463.467
151.0	1493.235	1486.552	1476.832	1477.440	1471.365
151.5	1501.740	1494.450	1484.730	1484.730	1478.655
152.0	1509.637	1502.347	1492.020	1491.412	1485.945
152.5	1517.535	1509.637	1499.310	1498.702	1492.627
153.0	1525.432	1516.927	1506.600	1505.992	1498.702
153.5	1532.722	1524.217	1513.890	1513.282	1504.170
154.0	1540.012	1531.507	1521.787	1520.572	1510.245
154.5	1547.910	1538.190	1529.077	1527.255	1516.320
155.0	1555.200	1544.872	1536.367	1534.545	1523.002
155.5	1561.882	1550.947	1543.657	1541.835	1529.685
156.0	1568.565	1557.630	1551.555	1548.517	1536.367
156.5	1575.247	1564.312	1558.845	1555.807	1543.050
157.0	1581.930	1570.995	1566.135	1563.097	1549.732
157.5	1588.005	1577.070	1572.817	1569.780	1556.415
158.0	1594.080	1583.145	1579.500	1576.462	1563.097
158.5	1600.762	1589.827	1586.182	1583.145	1570.387
159.0	1606.230	1595.902	1592.257	1589.827	1577.070
159.5	1612.305	1601.977	1598.332	1596.510	1583.752
160.0	1617.772	1607.445	1604.407	1602.585	1590.435
160.5	1623.240	1612.912	1609.875	1608.660	1597.117
161.0	1628.707	1618.380	1615.342	1614.735	1603.800
161.5	1634.174	1624.455	1620.202	1620.810	1610.482
162.0	1640.249	1629.922	1625.062	1626.885	1616.557
162.5	1645.717	1635.389	1629.922	1632.352	1622.025
163.0	1651.184	1640.857	1634.782	1637.819	1627.492
163.5	1656.652	1645.717	1639.642	1643.287	1632.352
164.0	1662.119	1650.577	1643.894	1648.147	1637.212
164.5	1666.372	1655.437	1648.147	1653.007	1642.072
165.0	1671.232	1660.297	1652.399	1657.867	1646.324
165.5	1676.092	1664.549	1656.652	1662.119	1650.577
166.0	1680.952	1668.802	1660.904	1666.372	1654.222
166.5	1685.812	1673.054	1665.157	1670.017	1658.474

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1690.064	1676.699	1668.802	1673.662	1662.119
167.5	1694.317	1680.344	1673.054	1677.307	1666.372
168.0	1698.569	1683.989	1676.699	1680.952	1670.017
168.5	1702.822	1687.634	1680.344	1684.597	1674.269
169.0	1706.467	1690.672	1683.989	1687.634	1677.914
169.5	1709.504	1693.709	1687.027	1690.672	1681.559
170.0	1712.542	1696.747	1690.064	1693.709	1685.812
170.5	1715.579	1699.784	1692.494	1696.747	1688.849
171.0	1718.617	1702.214	1694.924	1699.784	1691.887
171.5	1721.047	1704.644	1697.354	1702.822	1694.924
172.0	1723.477	1707.074	1699.177	1705.252	1697.354
172.5	1725.907	1709.504	1700.999	1707.074	1699.177
173.0	1728.337	1711.934	1702.822	1709.504	1700.392
173.5	1730.159	1713.757	1704.644	1710.719	1701.607
174.0	1731.982	1715.579	1706.467	1711.934	1702.214
174.5	1733.197	1716.794	1707.682	1713.149	1702.822
175.0	1734.412	1718.617	1708.897	1713.757	1702.822
175.5	1735.627	1719.832	1710.719	1714.364	1703.429
176.0	1736.842	1721.047	1711.934	1714.364	1703.429
176.5	1737.449	1722.262	1712.542	1714.972	1703.429
177.0	1738.057	1723.477	1713.757	1714.972	1702.822
177.5	1739.272	1724.692	1714.972	1714.972	1702.822
178.0	1739.879	1724.692	1715.579	1714.972	1703.429
178.5	1739.879	1725.299	1716.187	1714.972	1703.429
179.0	1740.487	1725.907	1716.187	1714.972	1703.429
179.5	1741.094	1725.907	1716.794	1714.972	1703.429
180.0	1719.832	1719.832	1719.832	1719.832	1719.832

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	627.53	N.A.	7.10
0-30	1311.95	N.A.	14.90
0-40	2107.67	N.A.	23.90
0-60	3581.4	N.A.	40.60
0-80	4385.83	N.A.	49.70
0-90	4470.82	N.A.	50.70
10-90	4307.03	N.A.	48.80
20-40	1480.14	N.A.	16.80
20-50	2270.05	N.A.	25.70
40-70	1985.9	N.A.	22.50
60-80	804.43	N.A.	9.10
70-80	292.26	N.A.	3.30
80-90	85.00	N.A.	1.00
90-110	248.89	N.A.	2.80
90-120	638.92	N.A.	7.20
90-130	1294.35	N.A.	14.70
90-150	3010.56	N.A.	34.10
90-180	4351.06	N.A.	49.30
110-180	4102.17	N.A.	46.50
0-180	8821.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.80
10-20	463.73
20-30	684.42
30-40	795.72
40-50	789.91
50-60	683.82
60-70	512.17
70-80	292.26
80-90	85.00
90-100	53.68
100-110	195.21
110-120	390.03
120-130	655.43
130-140	857.03
140-150	859.18
150-160	709.72
160-170	467.68
170-180	163.10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-850U-L12-850D-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	39	35	38	34	30	31	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	25	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-L8-850U-L12-850D-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	16.5	17.4	17.5	18.4	19.6	UGR Viewed Endwise			
	3H	18.3	19.1	19.2	20.0	21.3	16.4	17.3	17.4	18.3
	4H	18.9	19.6	19.9	20.6	21.9	18.2	19.0	19.1	19.9
	6H	19.3	20.0	20.3	21.0	22.3	18.8	19.6	19.8	20.5
	8H	19.5	20.1	20.4	21.1	22.4	19.3	20.0	20.3	20.9
	12H	19.5	20.2	20.5	21.1	22.5	19.4	20.1	20.4	21.1

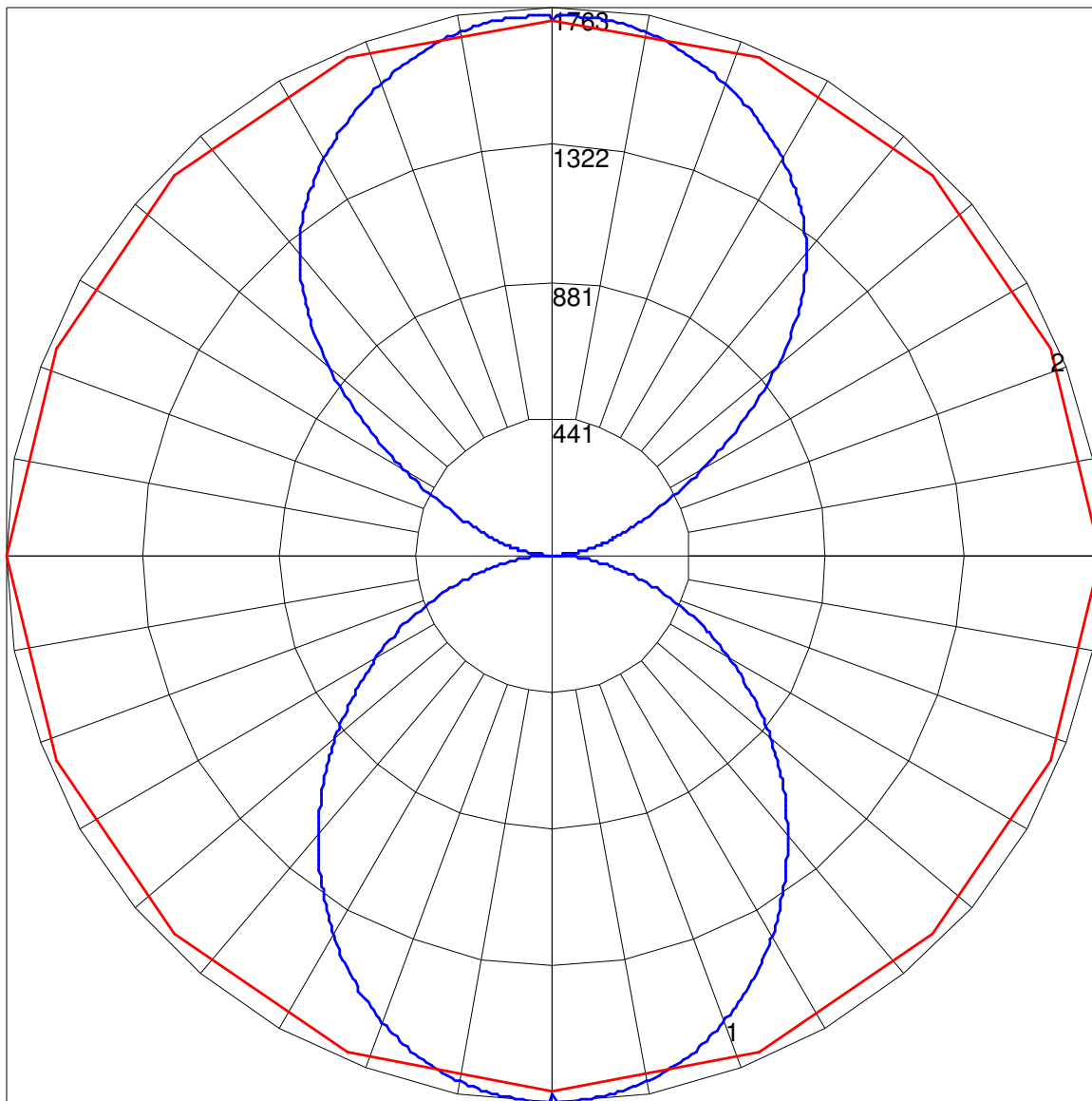
4H	2H	17.1	17.8	18.0	18.8	20.1	19.5	20.1	20.5	21.1	22.5
	3H	19.0	19.6	20.0	20.6	21.9	16.4	17.3	17.4	18.3	19.5
	4H	19.8	20.3	20.7	21.3	22.6	18.2	19.0	19.1	19.9	21.2
	6H	20.3	20.8	21.3	21.8	23.1	18.8	19.6	19.8	20.5	21.8
	8H	20.5	20.9	21.5	22.0	23.3	19.3	20.0	20.3	20.9	22.2
	12H	20.6	21.0	21.6	22.0	23.4	19.4	20.1	20.4	21.1	22.4

8H	4H	20.0	20.5	21.0	21.5	22.8	20.3	20.8	21.3	21.8	23.1
	6H	20.7	21.1	21.7	22.1	23.5	20.5	20.9	21.5	22.0	23.3
	8H	21.0	21.3	22.0	22.3	23.7	20.6	21.0	21.7	22.1	23.4
	12H	21.1	21.4	22.2	22.5	23.9	19.9	20.4	21.0	21.4	22.8

12H	4H	20.0	20.4	21.0	21.4	22.8	20.7	21.1	21.7	22.1	23.4
	6H	20.7	21.1	21.8	22.1	23.5	21.0	21.3	22.0	22.3	23.7
	8H	21.0	21.3	22.1	22.4	23.8	21.2	21.5	22.2	22.5	23.9

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1762.578 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.)