

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-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-L8-840U-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)

[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	8572
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	11628	11337	11208
55	10689	10430	10320
65	9859	9621	9517
75	8360	8356	8351
85	6530	6792	6988

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-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>
0.0	1687.215	1687.215	1687.215	1687.215	1687.215
0.5	1712.693	1688.630	1680.138	1683.676	1678.014
1.0	1712.693	1687.922	1680.138	1683.676	1678.014
1.5	1711.985	1687.215	1679.430	1683.676	1677.307
2.0	1711.277	1686.507	1678.722	1682.968	1677.307
2.5	1710.570	1685.799	1677.307	1682.261	1676.599
3.0	1709.154	1684.384	1676.599	1681.553	1675.183
3.5	1707.739	1682.968	1675.183	1680.138	1673.768
4.0	1706.323	1681.553	1673.768	1678.722	1672.353
4.5	1704.908	1679.430	1672.353	1677.307	1670.229
5.0	1703.492	1678.014	1670.229	1675.183	1668.106
5.5	1701.369	1675.891	1668.106	1673.060	1665.983
6.0	1699.246	1673.060	1665.983	1670.937	1663.152
6.5	1696.415	1670.937	1663.152	1668.106	1661.029
7.0	1694.292	1668.106	1661.029	1665.275	1658.198
7.5	1692.169	1665.275	1658.198	1662.444	1656.075
8.0	1688.630	1662.444	1654.659	1659.614	1653.244
8.5	1685.799	1658.906	1651.121	1656.075	1649.705
9.0	1682.261	1656.075	1648.290	1652.536	1646.167
9.5	1678.722	1652.536	1644.044	1648.290	1642.628
10.0	1675.183	1648.998	1640.505	1644.751	1638.382
10.5	1670.937	1644.751	1636.259	1640.505	1634.843
11.0	1667.398	1640.505	1632.012	1636.259	1629.889
11.5	1662.444	1636.259	1627.766	1632.012	1625.643
12.0	1658.198	1632.012	1623.520	1627.058	1620.689
12.5	1653.952	1627.058	1618.566	1622.104	1615.735
13.0	1648.998	1622.812	1613.611	1617.150	1610.781
13.5	1644.044	1617.150	1608.657	1611.488	1605.826
14.0	1639.090	1612.196	1602.996	1606.534	1600.872
14.5	1634.135	1607.242	1597.334	1600.872	1595.211
15.0	1629.181	1601.580	1591.672	1595.211	1589.549
15.5	1622.812	1596.626	1586.010	1588.841	1583.179
16.0	1615.735	1590.964	1579.641	1583.179	1577.517
16.5	1608.657	1584.595	1573.271	1576.810	1571.148
17.0	1602.288	1578.225	1566.902	1570.440	1564.778
17.5	1595.211	1571.148	1559.824	1563.363	1557.701
18.0	1588.133	1564.071	1552.747	1556.286	1550.624
18.5	1581.056	1556.993	1545.670	1548.501	1543.547
19.0	1573.979	1549.916	1539.300	1541.424	1535.054
19.5	1566.194	1542.839	1532.223	1532.931	1526.561
20.0	1559.117	1535.054	1525.854	1525.146	1518.069
20.5	1551.332	1527.977	1518.776	1516.653	1509.576
21.0	1543.547	1520.192	1510.991	1508.161	1500.376
21.5	1535.054	1512.407	1502.499	1499.668	1491.175
22.0	1527.269	1503.914	1493.298	1490.467	1482.682
22.5	1518.776	1495.421	1484.806	1481.267	1473.482
23.0	1510.284	1486.929	1476.313	1471.359	1464.282
23.5	1501.791	1478.436	1467.113	1462.158	1455.789
24.0	1492.591	1469.943	1458.620	1452.958	1446.588
24.5	1483.390	1460.743	1449.419	1443.758	1437.388
25.0	1474.897	1451.543	1440.219	1434.557	1428.188
25.5	1465.697	1442.342	1430.311	1425.357	1418.280
26.0	1455.789	1432.434	1421.110	1416.156	1409.079
26.5	1446.588	1423.234	1411.202	1406.956	1399.879

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1436.680	1413.325	1401.294	1397.756	1389.971
27.5	1426.772	1403.417	1392.094	1388.555	1380.770
28.0	1416.864	1392.801	1381.478	1378.647	1370.862
28.5	1406.248	1382.186	1371.570	1369.447	1360.954
29.0	1395.632	1372.277	1361.662	1359.538	1351.046
29.5	1385.724	1361.662	1351.753	1348.923	1341.845
30.0	1375.108	1351.046	1341.845	1339.014	1331.937
30.5	1364.492	1340.430	1331.229	1329.106	1322.029
31.0	1353.169	1330.522	1320.614	1318.490	1312.121
31.5	1342.553	1319.906	1309.998	1307.875	1301.505
32.0	1331.229	1308.582	1299.382	1296.551	1290.889
32.5	1319.906	1297.966	1288.766	1285.935	1279.566
33.0	1308.582	1287.351	1278.150	1275.319	1268.242
33.5	1297.966	1276.027	1266.827	1263.996	1257.626
34.0	1285.935	1264.703	1256.211	1252.672	1246.303
34.5	1274.611	1253.380	1244.179	1241.348	1234.271
35.0	1263.288	1242.764	1232.856	1230.025	1222.240
35.5	1251.257	1230.733	1221.532	1218.701	1210.209
36.0	1239.225	1219.409	1210.209	1206.670	1198.885
36.5	1227.902	1208.085	1198.885	1195.346	1187.561
37.0	1215.870	1196.054	1186.854	1183.315	1175.530
37.5	1203.839	1184.023	1175.530	1171.284	1164.206
38.0	1191.100	1171.991	1163.499	1159.252	1152.175
38.5	1179.069	1159.960	1151.467	1147.929	1140.144
39.0	1167.745	1147.929	1139.436	1135.898	1128.820
39.5	1155.006	1135.898	1128.113	1123.866	1116.081
40.0	1142.975	1123.158	1116.081	1111.835	1104.758
40.5	1130.236	1111.127	1104.050	1099.804	1092.726
41.0	1118.204	1098.388	1092.019	1087.065	1079.987
41.5	1105.465	1086.357	1079.280	1075.033	1067.248
42.0	1093.434	1073.618	1067.248	1063.002	1055.217
42.5	1081.403	1061.586	1055.217	1050.263	1043.186
43.0	1068.664	1049.555	1043.186	1038.232	1030.447
43.5	1056.632	1036.816	1030.447	1026.200	1018.415
44.0	1043.893	1024.077	1017.708	1013.461	1006.384
44.5	1031.154	1011.338	1004.969	1000.722	993.645
45.0	1018.415	999.307	992.937	987.983	981.614
45.5	1006.384	986.568	980.198	975.952	969.582
46.0	993.645	973.829	967.459	963.213	957.551
46.5	980.906	961.090	955.428	951.181	945.520
47.0	968.167	948.351	942.689	938.442	932.781
47.5	954.720	935.612	929.950	925.703	920.749
48.0	941.981	922.873	917.211	913.672	908.010
48.5	929.242	910.133	905.179	900.933	895.271
49.0	915.795	897.394	892.440	888.194	883.240
49.5	903.056	884.655	879.701	876.163	871.209
50.0	889.609	871.916	866.962	863.424	858.470
50.5	876.163	859.177	854.223	850.685	846.438
51.0	862.716	846.438	841.484	837.946	833.699
51.5	849.977	833.699	828.745	825.914	820.960
52.0	837.238	820.960	816.006	813.175	808.929
52.5	823.791	808.221	803.267	801.144	796.190
53.0	811.052	795.482	790.528	788.405	783.451
53.5	797.605	782.743	777.789	775.666	770.712
54.0	784.866	770.004	765.758	763.635	757.973
54.5	772.127	757.973	753.019	750.895	745.234

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

55.0	759.388	745.941	740.987	738.864	733.202
55.5	747.357	733.202	728.248	726.125	721.171
56.0	733.910	720.463	715.509	714.094	708.432
56.5	721.171	708.432	703.124	701.567	695.976
57.0	709.140	695.693	690.597	688.899	683.591
57.5	696.684	683.379	678.141	676.584	671.064
58.0	684.228	671.206	665.615	664.199	658.679
58.5	671.701	658.962	653.300	652.026	646.789
59.0	659.387	646.648	640.915	639.712	634.687
59.5	647.426	634.192	628.318	627.468	622.727
60.0	635.183	621.807	615.862	615.154	610.554
60.5	623.080	609.705	603.830	602.769	598.239
61.0	611.191	597.602	591.870	590.667	586.208
61.5	598.452	585.642	579.980	578.635	574.318
62.0	585.925	573.327	567.666	566.675	562.145
62.5	573.115	561.933	556.059	555.281	550.610
63.0	560.801	551.883	547.142	546.788	542.966
63.5	548.345	540.914	537.163	536.384	532.421
64.0	540.843	530.227	526.830	525.273	520.743
64.5	529.165	518.833	515.153	513.737	509.491
65.0	516.073	506.660	503.617	502.272	498.167
65.5	502.697	494.345	491.585	490.948	486.773
66.0	489.816	482.314	479.837	479.554	475.095
66.5	477.077	470.000	467.877	467.877	463.913
67.0	464.479	457.756	456.058	456.270	452.660
67.5	452.094	445.725	444.168	444.592	441.054
68.0	439.568	433.693	432.278	432.844	429.164
68.5	426.970	421.450	420.318	421.096	417.487
69.0	413.948	409.135	408.286	408.711	405.384
69.5	401.280	397.033	396.043	396.538	393.495
70.0	388.753	384.790	384.082	384.294	381.605
70.5	376.439	372.475	371.980	372.192	369.644
71.0	363.841	360.232	360.090	360.373	357.613
71.5	351.244	347.988	348.271	348.483	346.077
72.0	339.000	335.674	336.240	336.523	334.471
72.5	326.756	323.572	324.492	324.775	323.076
73.0	314.654	311.753	313.026	313.380	311.894
73.5	302.906	300.075	301.561	302.198	300.571
74.0	291.299	288.398	290.238	290.733	289.672
74.5	279.693	276.933	278.985	279.480	278.702
75.0	268.015	265.538	267.874	268.369	267.732
75.5	256.479	254.144	256.833	257.470	256.762
76.0	244.802	243.174	245.934	246.642	246.076
76.5	233.761	232.346	235.106	235.885	235.389
77.0	223.004	221.447	224.490	225.198	224.419
77.5	211.893	210.831	213.874	214.440	213.662
78.0	201.064	200.215	203.258	204.108	203.329
78.5	190.307	189.882	192.784	193.775	193.138
79.0	179.974	179.550	182.522	183.725	183.230
79.5	169.642	169.429	172.402	173.676	173.251
80.0	159.450	159.521	162.281	164.050	163.484
80.5	149.188	149.825	152.656	154.355	153.930
81.0	139.351	140.342	143.102	144.871	144.588
81.5	129.867	130.929	133.760	135.529	135.317
82.0	121.021	121.729	124.630	126.470	126.258
82.5	112.174	112.811	115.642	117.482	117.341

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	103.328	104.319	106.796	108.706	108.848
83.5	94.623	95.826	98.232	100.072	100.497
84.0	86.484	87.475	89.739	91.509	92.146
84.5	78.204	79.265	81.388	83.158	83.795
85.0	70.489	71.339	73.320	74.877	75.443
85.5	62.987	63.412	65.111	66.738	67.305
86.0	55.627	55.769	57.255	58.741	59.449
86.5	48.338	48.338	49.682	51.027	51.664
87.0	40.977	40.977	41.968	43.667	44.162
87.5	33.688	33.758	34.678	36.377	37.014
88.0	26.752	26.681	27.601	29.441	30.149
88.5	20.099	19.675	20.878	22.506	23.496
89.0	13.022	12.810	14.438	15.995	17.056
89.5	6.016	7.148	8.634	9.837	10.191
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.368	2.302	2.125	2.066	2.243
91.0	9.622	5.077	4.132	4.073	4.014
91.5	15.466	10.330	6.139	6.080	6.021
92.0	21.369	17.178	8.855	7.910	7.910
92.5	27.508	24.262	13.695	9.917	9.740
93.0	33.884	31.050	19.362	13.164	11.865
93.5	40.318	37.543	25.442	17.768	15.466
94.0	46.634	43.919	32.172	23.258	20.366
94.5	53.128	50.294	39.196	28.925	25.678
95.0	59.503	56.846	46.103	34.710	30.932
95.5	65.878	62.986	52.832	40.672	36.481
96.0	71.958	69.243	59.444	46.870	42.148
96.5	78.098	75.500	66.055	53.187	47.992
97.0	84.060	81.639	72.608	59.503	54.190
97.5	90.199	87.838	79.219	65.937	60.388
98.0	96.279	93.918	85.653	72.313	66.646
98.5	102.359	100.057	91.852	78.806	72.903
99.0	108.557	106.373	98.168	85.004	79.219
99.5	114.815	112.630	104.543	91.202	85.417
100.0	120.954	118.947	110.919	97.578	91.497
100.5	127.329	125.263	117.294	104.189	97.637
101.0	133.881	131.579	123.787	110.859	104.307
101.5	140.552	138.014	130.399	117.530	111.214
102.0	147.045	144.684	137.010	124.200	118.061
102.5	153.834	151.295	143.858	130.871	124.850
103.0	160.799	158.143	150.646	137.482	131.756
103.5	167.765	165.109	157.848	144.566	138.604
104.0	174.908	172.133	165.168	151.886	145.747
104.5	182.287	179.453	172.487	159.383	152.889
105.0	189.842	186.950	179.748	166.761	160.150
105.5	197.575	194.565	187.245	174.199	167.352
106.0	205.427	202.239	194.860	181.755	174.554
106.5	213.337	210.149	202.829	189.370	181.814
107.0	221.778	218.413	211.330	197.457	189.724
107.5	230.515	226.914	219.948	206.017	198.284
108.0	239.192	235.650	228.744	215.285	207.079
108.5	248.342	244.564	237.539	224.552	216.170
109.0	257.728	253.655	246.571	233.938	225.379
109.5	267.350	263.099	256.075	243.265	234.706
110.0	277.621	272.780	265.815	252.828	244.446
110.5	288.128	282.698	275.791	263.099	254.540

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	298.754	293.087	286.121	273.784	264.693
111.5	309.616	303.772	296.629	284.646	275.142
112.0	320.890	314.751	307.077	295.507	285.118
112.5	332.224	326.026	317.644	306.310	295.684
113.0	344.089	337.655	328.801	317.467	306.723
113.5	356.309	349.815	340.607	329.509	318.588
114.0	368.705	362.212	353.121	342.319	331.752
114.5	381.515	375.021	365.872	355.659	345.742
115.0	394.502	388.185	379.095	369.118	359.910
115.5	408.079	401.467	392.672	382.518	373.900
116.0	421.774	415.280	406.721	396.627	388.126
116.5	436.236	429.448	421.242	411.089	403.297
117.0	451.289	443.910	435.882	426.673	418.940
117.5	462.387	455.185	449.282	441.018	434.819
118.0	476.554	468.349	463.036	455.834	448.928
118.5	493.024	484.051	477.085	469.589	461.619
119.0	509.139	499.517	493.024	485.173	475.728
119.5	525.431	515.987	509.906	500.993	491.548
120.0	542.255	533.046	526.848	518.289	508.254
120.5	558.961	550.342	544.321	536.647	526.081
121.0	576.493	567.993	561.912	554.947	545.030
121.5	593.848	585.466	579.444	573.482	563.565
122.0	612.147	603.293	597.980	592.077	582.160
122.5	629.857	621.002	616.280	610.377	599.751
123.0	648.156	639.892	635.169	630.447	619.231
123.5	667.046	658.782	655.240	650.517	639.302
124.0	685.936	678.262	674.720	670.588	659.962
124.5	704.826	697.152	694.200	690.068	680.033
125.0	723.715	716.041	713.090	709.548	699.513
125.5	743.195	735.521	732.570	729.028	718.403
126.0	762.085	754.411	752.640	748.508	737.292
126.5	780.975	773.301	772.711	769.169	757.363
127.0	800.455	792.781	792.781	789.830	778.614
127.5	819.935	811.671	811.671	809.900	799.865
128.0	838.825	830.561	831.151	829.970	819.935
128.5	857.715	848.860	850.041	850.041	839.415
129.0	876.605	867.160	868.931	869.521	859.486
129.5	895.494	886.049	888.411	889.591	880.146
130.0	914.384	904.939	907.891	909.662	901.988
130.5	933.274	923.239	927.961	929.142	922.648
131.0	952.164	941.538	946.851	948.032	941.538
131.5	969.873	959.247	965.741	965.741	959.838
132.0	988.172	976.957	984.040	984.631	977.547
132.5	1005.882	995.256	1002.340	1002.930	995.256
133.0	1023.591	1013.556	1020.049	1021.230	1012.375
133.5	1041.300	1031.265	1038.348	1039.529	1030.674
134.0	1059.009	1048.384	1055.467	1057.238	1048.384
134.5	1074.947	1065.503	1071.996	1073.177	1065.503
135.0	1090.886	1082.031	1087.934	1089.115	1080.851
135.5	1106.234	1099.150	1103.872	1104.463	1096.198
136.0	1121.582	1115.088	1118.630	1120.401	1112.137
136.5	1137.520	1130.436	1133.388	1136.339	1128.665
137.0	1152.278	1145.784	1148.736	1151.097	1144.013
137.5	1167.035	1159.952	1162.903	1164.674	1157.590
138.0	1181.203	1174.119	1176.480	1177.661	1170.577
138.5	1195.370	1187.696	1190.057	1190.647	1182.973

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1208.947	1201.273	1203.634	1203.634	1195.370
139.5	1222.524	1214.850	1216.621	1216.031	1207.176
140.0	1235.511	1227.246	1229.608	1229.017	1220.163
140.5	1247.907	1239.053	1241.414	1240.823	1231.379
141.0	1260.304	1251.449	1253.220	1252.039	1242.594
141.5	1271.519	1262.665	1265.026	1263.255	1252.630
142.0	1283.326	1274.471	1276.242	1273.881	1263.255
142.5	1294.541	1285.687	1287.458	1285.096	1273.290
143.0	1305.757	1296.312	1298.083	1295.722	1283.916
143.5	1316.383	1307.528	1308.709	1306.347	1293.951
144.0	1326.418	1318.154	1318.744	1315.792	1303.396
144.5	1336.453	1328.189	1328.779	1325.237	1312.841
145.0	1345.898	1338.224	1338.224	1334.092	1321.695
145.5	1355.933	1348.259	1347.669	1344.127	1331.140
146.0	1365.378	1357.704	1357.114	1352.982	1340.585
146.5	1374.823	1367.149	1365.968	1362.427	1350.030
147.0	1383.678	1376.594	1374.233	1371.871	1359.475
147.5	1392.532	1385.448	1383.087	1380.726	1368.330
148.0	1401.387	1394.303	1390.761	1388.990	1377.774
148.5	1410.241	1403.158	1398.435	1397.255	1387.219
149.0	1418.506	1412.012	1406.109	1405.519	1396.664
149.5	1426.770	1420.277	1413.193	1413.783	1405.519
150.0	1435.034	1428.541	1420.867	1421.457	1413.783
150.5	1443.298	1436.805	1427.951	1428.541	1422.047
151.0	1450.972	1444.479	1435.034	1435.624	1429.721
151.5	1459.237	1452.153	1442.708	1442.708	1436.805
152.0	1466.911	1459.827	1449.792	1449.202	1443.889
152.5	1474.585	1466.911	1456.876	1456.285	1450.382
153.0	1482.259	1473.994	1463.959	1463.369	1456.285
153.5	1489.342	1481.078	1471.043	1470.453	1461.598
154.0	1496.426	1488.162	1478.717	1477.536	1467.501
154.5	1504.100	1494.655	1485.801	1484.030	1473.404
155.0	1511.184	1501.148	1492.884	1491.113	1479.897
155.5	1517.677	1507.052	1499.968	1498.197	1486.391
156.0	1524.170	1513.545	1507.642	1504.690	1492.884
156.5	1530.664	1520.038	1514.726	1511.774	1499.378
157.0	1537.157	1526.532	1521.809	1518.858	1505.871
157.5	1543.060	1532.435	1528.303	1525.351	1512.364
158.0	1548.963	1538.338	1534.796	1531.844	1518.858
158.5	1555.457	1544.831	1541.289	1538.338	1525.941
159.0	1560.769	1550.734	1547.192	1544.831	1532.435
159.5	1566.672	1556.637	1553.095	1551.324	1538.928
160.0	1571.985	1561.950	1558.998	1557.228	1545.421
160.5	1577.298	1567.263	1564.311	1563.131	1551.915
161.0	1582.611	1572.576	1569.624	1569.034	1558.408
161.5	1587.923	1578.479	1574.346	1574.937	1564.902
162.0	1593.827	1583.791	1579.069	1580.840	1570.805
162.5	1599.139	1589.104	1583.791	1586.153	1576.117
163.0	1604.452	1594.417	1588.514	1591.465	1581.430
163.5	1609.765	1599.139	1593.236	1596.778	1586.153
164.0	1615.078	1603.862	1597.368	1601.501	1590.875
164.5	1619.210	1608.584	1601.501	1606.223	1595.597
165.0	1623.932	1613.307	1605.633	1610.945	1599.730
165.5	1628.655	1617.439	1609.765	1615.078	1603.862
166.0	1633.377	1621.571	1613.897	1619.210	1607.404
166.5	1638.099	1625.703	1618.029	1622.752	1611.536

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1642.232	1629.245	1621.571	1626.293	1615.078
167.5	1646.364	1632.787	1625.703	1629.835	1619.210
168.0	1650.496	1636.329	1629.245	1633.377	1622.752
168.5	1654.628	1639.870	1632.787	1636.919	1626.884
169.0	1658.170	1642.822	1636.329	1639.870	1630.426
169.5	1661.121	1645.773	1639.280	1642.822	1633.967
170.0	1664.073	1648.725	1642.232	1645.773	1638.099
170.5	1667.024	1651.677	1644.593	1648.725	1641.051
171.0	1669.976	1654.038	1646.954	1651.677	1644.003
171.5	1672.337	1656.399	1649.315	1654.628	1646.954
172.0	1674.698	1658.760	1651.086	1656.989	1649.315
172.5	1677.060	1661.121	1652.857	1658.760	1651.086
173.0	1679.421	1663.483	1654.628	1661.121	1652.267
173.5	1681.192	1665.254	1656.399	1662.302	1653.447
174.0	1682.963	1667.024	1658.170	1663.483	1654.038
174.5	1684.143	1668.205	1659.351	1664.663	1654.628
175.0	1685.324	1669.976	1660.531	1665.254	1654.628
175.5	1686.505	1671.157	1662.302	1665.844	1655.218
176.0	1687.685	1672.337	1663.483	1665.844	1655.218
176.5	1688.276	1673.518	1664.073	1666.434	1655.218
177.0	1688.866	1674.698	1665.254	1666.434	1654.628
177.5	1690.046	1675.879	1666.434	1666.434	1654.628
178.0	1690.637	1675.879	1667.024	1666.434	1655.218
178.5	1690.637	1676.469	1667.615	1666.434	1655.218
179.0	1691.227	1677.060	1667.615	1666.434	1655.218
179.5	1691.817	1677.060	1668.205	1666.434	1655.218
180.0	1671.157	1671.157	1671.157	1671.157	1671.157

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	609.77	N.A.	7.10
0-30	1274.82	N.A.	14.90
0-40	2048.02	N.A.	23.90
0-60	3480.04	N.A.	40.60
0-80	4261.7	N.A.	49.70
0-90	4344.29	N.A.	50.70
10-90	4185.13	N.A.	48.80
20-40	1438.25	N.A.	16.80
20-50	2205.8	N.A.	25.70
40-70	1929.7	N.A.	22.50
60-80	781.66	N.A.	9.10
70-80	283.98	N.A.	3.30
80-90	82.59	N.A.	1.00
90-110	241.85	N.A.	2.80
90-120	620.84	N.A.	7.20
90-130	1257.72	N.A.	14.70
90-150	2925.36	N.A.	34.10
90-180	4227.91	N.A.	49.30
110-180	3986.07	N.A.	46.50
0-180	8572.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.16
10-20	450.61
20-30	665.05
30-40	773.20
40-50	767.55
50-60	664.47
60-70	497.67
70-80	283.98
80-90	82.59
90-100	52.16
100-110	189.68
110-120	378.99
120-130	636.88
130-140	832.78
140-150	834.86
150-160	689.64
160-170	454.44
170-180	158.48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-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	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-L8-840U-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	16.4	17.3	17.4	18.3	19.5	UGR Viewed Endwise			
	3H	18.2	19.0	19.1	19.9	21.2	16.3	17.2	17.3	18.2
	4H	18.8	19.5	19.8	20.5	21.8	18.1	18.9	19.0	19.8
	6H	19.2	19.9	20.2	20.9	22.2	18.7	19.5	19.7	20.4
	8H	19.4	20.0	20.3	21.0	22.3	19.2	19.9	20.2	20.8
	12H	19.4	20.1	20.4	21.0	22.4	19.3	20.0	20.3	21.0

4H	2H	17.0	17.7	17.9	18.7	20.0	16.9	17.6	17.8	18.6	19.9
	3H	18.9	19.5	19.9	20.5	21.8	18.8	19.5	19.8	20.5	21.8
	4H	19.7	20.2	20.6	21.2	22.5	19.6	20.2	20.6	21.2	22.5
	6H	20.2	20.7	21.2	21.7	23.0	20.2	20.7	21.2	21.7	23.0
	8H	20.4	20.8	21.4	21.9	23.2	20.4	20.8	21.4	21.9	23.2
	12H	20.5	20.9	21.5	21.9	23.3	20.5	20.9	21.6	22.0	23.3

8H	4H	19.9	20.4	20.9	21.4	22.7	19.9	20.3	20.9	21.3	22.7
	6H	20.6	21.0	21.6	22.0	23.4	20.6	21.0	21.6	22.0	23.3
	8H	20.9	21.2	21.9	22.2	23.6	20.9	21.2	21.9	22.2	23.6
	12H	21.0	21.3	22.1	22.4	23.8	21.1	21.4	22.1	22.4	23.8

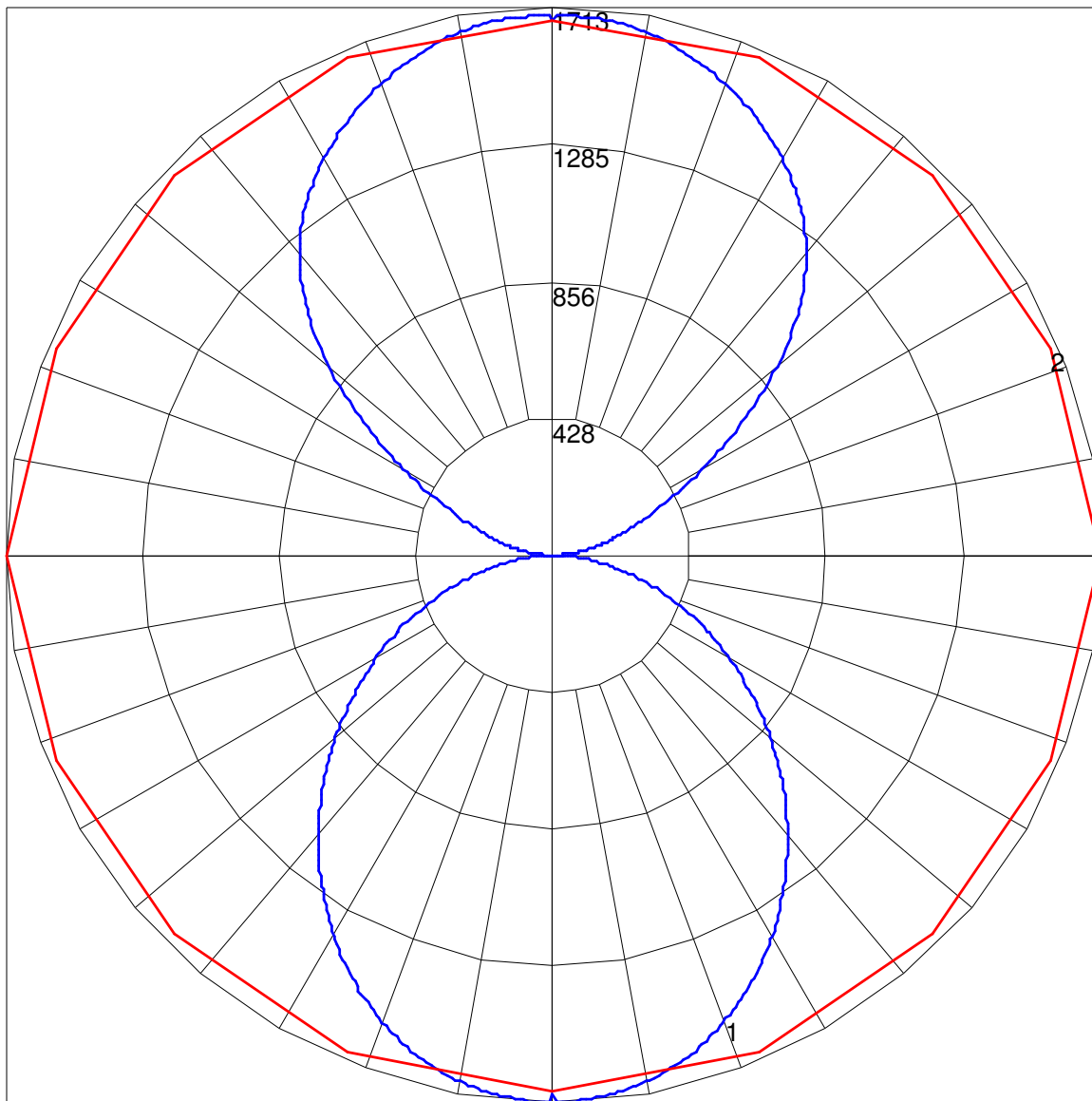
12H	4H	19.9	20.3	20.9	21.3	22.7	19.8	20.3	20.9	21.3	22.6
	6H	20.6	21.0	21.7	22.0	23.4	20.6	21.0	21.7	22.0	23.4
	8H	20.9	21.2	22.0	22.3	23.7	20.9	21.2	22.0	22.3	23.7

Maximum UGR = 23.8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L12-840D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1712.693 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.)