

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-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-L8-935U-L15-935D-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	7823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	77.6
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	10612	10346	10228
55	9755	9519	9419
65	8997	8780	8685
75	7630	7626	7622
85	5959	6198	6378

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1539.803	1539.803	1539.803	1539.803	1539.803
<b>0.5</b>	1563.055	1541.095	1533.344	1536.573	1531.406
<b>1.0</b>	1563.055	1540.449	1533.344	1536.573	1531.406
<b>1.5</b>	1562.409	1539.803	1532.698	1536.573	1530.760
<b>2.0</b>	1561.763	1539.157	1532.052	1535.927	1530.760
<b>2.5</b>	1561.117	1538.511	1530.760	1535.282	1530.114
<b>3.0</b>	1559.825	1537.219	1530.114	1534.636	1528.823
<b>3.5</b>	1558.534	1535.927	1528.823	1533.344	1527.531
<b>4.0</b>	1557.242	1534.636	1527.531	1532.052	1526.239
<b>4.5</b>	1555.950	1532.698	1526.239	1530.760	1524.301
<b>5.0</b>	1554.658	1531.406	1524.301	1528.823	1522.364
<b>5.5</b>	1552.721	1529.469	1522.364	1526.885	1520.426
<b>6.0</b>	1550.783	1526.885	1520.426	1524.947	1517.843
<b>6.5</b>	1548.199	1524.947	1517.843	1522.364	1515.905
<b>7.0</b>	1546.262	1522.364	1515.905	1519.780	1513.321
<b>7.5</b>	1544.324	1519.780	1513.321	1517.197	1511.384
<b>8.0</b>	1541.095	1517.197	1510.092	1514.613	1508.800
<b>8.5</b>	1538.511	1513.967	1506.862	1511.384	1505.571
<b>9.0</b>	1535.282	1511.384	1504.279	1508.154	1502.341
<b>9.5</b>	1532.052	1508.154	1500.403	1504.279	1499.112
<b>10.0</b>	1528.823	1504.925	1497.174	1501.049	1495.236
<b>10.5</b>	1524.947	1501.049	1493.299	1497.174	1492.007
<b>11.0</b>	1521.718	1497.174	1489.423	1493.299	1487.486
<b>11.5</b>	1517.197	1493.299	1485.548	1489.423	1483.610
<b>12.0</b>	1513.321	1489.423	1481.673	1484.902	1479.089
<b>12.5</b>	1509.446	1484.902	1477.151	1480.381	1474.568
<b>13.0</b>	1504.925	1481.027	1472.630	1475.860	1470.047
<b>13.5</b>	1500.403	1475.860	1468.109	1470.693	1465.525
<b>14.0</b>	1495.882	1471.338	1462.942	1466.171	1461.004
<b>14.5</b>	1491.361	1466.817	1457.775	1461.004	1455.837
<b>15.0</b>	1486.840	1461.650	1452.608	1455.837	1450.670
<b>15.5</b>	1481.027	1457.129	1447.440	1450.024	1444.857
<b>16.0</b>	1474.568	1451.962	1441.627	1444.857	1439.690
<b>16.5</b>	1468.109	1446.149	1435.814	1439.044	1433.877
<b>17.0</b>	1462.296	1440.336	1430.001	1433.231	1428.064
<b>17.5</b>	1455.837	1433.877	1423.543	1426.772	1421.605
<b>18.0</b>	1449.378	1427.418	1417.084	1420.313	1415.146
<b>18.5</b>	1442.919	1420.959	1410.625	1413.208	1408.687
<b>19.0</b>	1436.460	1414.500	1404.812	1406.749	1400.936
<b>19.5</b>	1429.356	1408.041	1398.353	1398.999	1393.186
<b>20.0</b>	1422.897	1400.936	1392.540	1391.894	1385.435
<b>20.5</b>	1415.792	1394.477	1386.081	1384.143	1377.684
<b>21.0</b>	1408.687	1387.373	1378.976	1376.393	1369.288
<b>21.5</b>	1400.936	1380.268	1371.225	1368.642	1360.891
<b>22.0</b>	1393.832	1372.517	1362.829	1360.245	1353.140
<b>22.5</b>	1386.081	1364.767	1355.078	1351.849	1344.744
<b>23.0</b>	1378.330	1357.016	1347.327	1342.806	1336.347
<b>23.5</b>	1370.580	1349.265	1338.931	1334.410	1328.597
<b>24.0</b>	1362.183	1341.514	1331.180	1326.013	1320.200
<b>24.5</b>	1353.786	1333.118	1322.784	1317.617	1311.803
<b>25.0</b>	1346.036	1324.721	1314.387	1309.220	1303.407
<b>25.5</b>	1337.639	1316.325	1305.345	1300.823	1294.364
<b>26.0</b>	1328.597	1307.282	1296.948	1292.427	1285.968
<b>26.5</b>	1320.200	1298.886	1287.906	1284.030	1277.571

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27.0	1311.158	1289.843	1278.863	1275.634	1268.529
27.5	1302.115	1280.801	1270.466	1267.237	1260.132
28.0	1293.073	1271.112	1260.778	1258.195	1251.090
28.5	1283.384	1261.424	1251.736	1249.798	1242.047
29.0	1273.696	1252.382	1242.693	1240.756	1233.005
29.5	1264.653	1242.693	1233.651	1231.067	1224.608
30.0	1254.965	1233.005	1224.608	1222.025	1215.566
30.5	1245.277	1223.316	1214.920	1212.982	1206.523
31.0	1234.943	1214.274	1205.232	1203.294	1197.481
31.5	1225.254	1204.586	1195.543	1193.606	1187.793
32.0	1214.920	1194.251	1185.855	1183.271	1178.104
32.5	1204.586	1184.563	1176.166	1173.583	1167.770
33.0	1194.251	1174.875	1166.478	1163.895	1157.436
33.5	1184.563	1164.540	1156.144	1153.560	1147.747
34.0	1173.583	1154.206	1146.456	1143.226	1137.413
34.5	1163.249	1143.872	1135.475	1132.892	1126.433
35.0	1152.914	1134.184	1125.141	1122.558	1115.453
35.5	1141.934	1123.203	1114.807	1112.223	1104.473
36.0	1130.954	1112.869	1104.473	1101.243	1094.138
36.5	1120.620	1102.535	1094.138	1090.909	1083.804
37.0	1109.640	1091.555	1083.158	1079.929	1072.824
37.5	1098.660	1080.575	1072.824	1068.949	1062.490
38.0	1087.034	1069.595	1061.844	1057.969	1051.510
38.5	1076.053	1058.614	1050.864	1047.634	1040.530
39.0	1065.719	1047.634	1039.884	1036.654	1030.195
39.5	1054.093	1036.654	1029.549	1025.674	1018.569
40.0	1043.113	1025.028	1018.569	1014.694	1008.235
40.5	1031.487	1014.048	1007.589	1003.714	997.255
41.0	1020.507	1002.422	996.609	992.088	985.629
41.5	1008.881	991.442	984.983	981.108	974.003
42.0	997.901	979.816	974.003	970.127	963.023
42.5	986.921	968.836	963.023	958.501	952.043
43.0	975.295	957.856	952.043	947.521	940.416
43.5	964.314	946.229	940.416	936.541	929.436
44.0	952.688	934.603	928.790	924.915	918.456
44.5	941.062	922.977	917.164	913.289	906.830
45.0	929.436	911.997	906.184	901.663	895.850
45.5	918.456	900.371	894.558	890.683	884.870
46.0	906.830	888.745	882.932	879.057	873.890
46.5	895.204	877.119	871.952	868.077	862.910
47.0	883.578	865.493	860.326	856.451	851.284
47.5	871.306	853.867	848.700	844.825	840.303
48.0	859.680	842.241	837.074	833.845	828.677
48.5	848.054	830.615	826.094	822.219	817.051
49.0	835.782	818.989	814.468	810.593	806.071
49.5	824.156	807.363	802.842	799.612	795.091
50.0	811.884	795.737	791.216	787.986	783.465
50.5	799.612	784.111	779.590	776.360	772.485
51.0	787.340	772.485	767.964	764.734	760.859
51.5	775.714	760.859	756.338	753.754	749.233
52.0	764.088	749.233	744.712	742.128	738.253
52.5	751.816	737.607	733.086	731.148	726.627
53.0	740.190	725.981	721.460	719.522	715.001
53.5	727.919	714.355	709.834	707.896	703.375
54.0	716.293	702.729	698.853	696.916	691.749
54.5	704.666	691.749	687.227	685.290	680.123

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55.0	693.040	680.769	676.247	674.310	669.142
55.5	682.060	669.142	664.621	662.684	658.162
56.0	669.788	657.516	652.995	651.703	646.536
56.5	658.162	646.536	641.692	640.271	635.169
57.0	647.182	634.910	630.260	628.710	623.866
57.5	635.815	623.672	618.892	617.471	612.433
58.0	624.447	612.562	607.460	606.168	601.130
58.5	613.015	601.389	596.221	595.059	590.279
59.0	601.776	590.150	584.918	583.820	579.235
59.5	590.861	578.782	573.421	572.646	568.319
60.0	579.687	567.479	562.054	561.408	557.210
60.5	568.642	556.435	551.074	550.105	545.971
61.0	557.791	545.390	540.158	539.060	534.991
61.5	546.165	534.474	529.307	528.080	524.140
62.0	534.733	523.236	518.069	517.164	513.031
62.5	523.042	512.837	507.476	506.766	502.503
63.0	511.804	503.665	499.338	499.015	495.527
63.5	500.436	493.654	490.231	489.520	485.903
64.0	493.590	483.901	480.801	479.380	475.246
64.5	482.932	473.502	470.144	468.852	464.977
65.0	470.983	462.393	459.616	458.388	454.642
65.5	458.776	451.155	448.636	448.054	444.243
66.0	447.021	440.174	437.914	437.655	433.586
66.5	435.395	428.936	426.998	426.998	423.381
67.0	423.898	417.762	416.212	416.406	413.112
67.5	412.595	406.782	405.361	405.748	402.519
68.0	401.163	395.802	394.510	395.027	391.668
68.5	389.666	384.628	383.594	384.305	381.011
69.0	377.781	373.389	372.614	373.002	369.966
69.5	366.220	362.345	361.440	361.892	359.115
70.0	354.788	351.171	350.525	350.719	348.264
70.5	343.549	339.932	339.480	339.674	337.349
71.0	332.052	328.758	328.629	328.887	326.368
71.5	320.555	317.584	317.843	318.036	315.840
72.0	309.382	306.346	306.863	307.121	305.248
72.5	298.208	295.301	296.141	296.399	294.849
73.0	287.163	284.515	285.677	286.000	284.644
73.5	276.441	273.858	275.214	275.795	274.310
74.0	265.849	263.200	264.880	265.332	264.363
74.5	255.256	252.737	254.610	255.062	254.352
75.0	244.599	242.338	244.470	244.922	244.340
75.5	234.071	231.939	234.394	234.975	234.329
76.0	223.414	221.928	224.447	225.093	224.576
76.5	213.338	212.046	214.565	215.275	214.823
77.0	203.520	202.099	204.876	205.522	204.812
77.5	193.380	192.411	195.188	195.705	194.994
78.0	183.497	182.722	185.500	186.275	185.564
78.5	173.680	173.292	175.941	176.845	176.264
79.0	164.250	163.862	166.575	167.673	167.221
79.5	154.820	154.626	157.339	158.501	158.114
80.0	145.519	145.584	148.103	149.717	149.201
80.5	136.154	136.735	139.319	140.869	140.481
81.0	127.176	128.080	130.599	132.214	131.955
81.5	118.521	119.490	122.073	123.688	123.494
82.0	110.447	111.093	113.741	115.421	115.227
82.5	102.374	102.955	105.538	107.218	107.089

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83.0	94.300	95.204	97.465	99.209	99.338
83.5	86.356	87.454	89.650	91.329	91.716
84.0	78.928	79.832	81.899	83.514	84.095
84.5	71.371	72.340	74.277	75.892	76.473
85.0	64.331	65.106	66.914	68.335	68.852
85.5	57.484	57.872	59.422	60.907	61.424
86.0	50.767	50.896	52.253	53.609	54.255
86.5	44.114	44.114	45.342	46.569	47.150
87.0	37.397	37.397	38.301	39.851	40.304
87.5	30.744	30.809	31.649	33.199	33.780
88.0	24.415	24.350	25.190	26.869	27.515
88.5	18.343	17.956	19.054	20.539	21.444
89.0	11.884	11.691	13.176	14.597	15.566
89.5	5.490	6.523	7.880	8.978	9.301
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.987	2.101	1.939	1.886	2.047
91.0	8.781	4.633	3.771	3.717	3.663
91.5	14.115	9.428	5.603	5.549	5.495
92.0	19.502	15.677	8.081	7.219	7.219
92.5	25.105	22.142	12.499	9.051	8.889
93.0	30.923	28.337	17.670	12.014	10.828
93.5	36.795	34.263	23.219	16.216	14.115
94.0	42.560	40.082	29.361	21.226	18.586
94.5	48.486	45.900	35.772	26.398	23.435
95.0	54.304	51.880	42.075	31.677	28.230
95.5	60.122	57.483	48.216	37.119	33.294
96.0	65.671	63.193	54.250	42.775	38.465
96.5	71.274	68.904	60.284	48.540	43.799
97.0	76.715	74.507	66.264	54.304	49.456
97.5	82.318	80.163	72.298	60.176	55.112
98.0	87.867	85.712	78.170	65.995	60.823
98.5	93.416	91.315	83.827	71.921	66.533
99.0	99.073	97.079	89.591	77.577	72.298
99.5	104.783	102.790	95.409	83.234	77.954
100.0	110.386	108.554	101.228	89.052	83.503
100.5	116.204	114.319	107.046	95.086	89.106
101.0	122.184	120.083	112.972	101.174	95.194
101.5	128.272	125.955	119.006	107.261	101.497
102.0	134.198	132.043	125.039	113.349	107.746
102.5	140.393	138.077	131.289	119.437	113.942
103.0	146.750	144.326	137.484	125.470	120.245
103.5	153.107	150.683	144.057	131.935	126.494
104.0	159.626	157.094	150.737	138.616	133.013
104.5	166.360	163.774	157.417	145.457	139.531
105.0	173.256	170.616	164.044	152.192	146.158
105.5	180.313	177.566	170.885	158.980	152.730
106.0	187.478	184.569	177.835	165.875	159.303
106.5	194.697	191.788	185.108	172.825	165.929
107.0	202.401	199.330	192.866	180.206	173.148
107.5	210.374	207.088	200.731	188.017	180.960
108.0	218.294	215.061	208.758	196.475	188.987
108.5	226.644	223.196	216.785	204.933	197.283
109.0	235.210	231.493	225.028	213.499	205.688
109.5	243.991	240.112	233.702	222.011	214.199
110.0	253.365	248.948	242.591	230.739	223.089
110.5	262.955	257.998	251.695	240.112	232.301

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

111.0	272.652	267.480	261.123	249.863	241.567
111.5	282.564	277.231	270.712	259.776	251.103
112.0	292.854	287.251	280.248	269.689	260.207
112.5	303.198	297.541	289.891	279.548	269.850
113.0	314.026	308.154	300.073	289.730	279.925
113.5	325.178	319.252	310.848	300.720	290.753
114.0	336.491	330.565	322.269	312.410	302.767
114.5	348.182	342.256	333.906	324.585	315.535
115.0	360.034	354.270	345.973	336.869	328.464
115.5	372.425	366.391	358.364	349.098	341.232
116.0	384.923	378.997	371.186	361.973	354.216
116.5	398.122	391.927	384.438	375.172	368.061
117.0	411.860	405.126	397.799	389.395	382.337
117.5	421.988	415.416	410.028	402.486	396.829
118.0	434.918	427.429	422.581	416.008	409.705
118.5	449.948	441.759	435.402	428.561	421.288
119.0	464.656	455.874	449.948	442.783	434.163
119.5	479.525	470.905	465.356	457.221	448.601
120.0	494.878	486.474	480.817	473.006	463.847
120.5	510.124	502.259	496.764	489.760	480.117
121.0	526.125	518.367	512.818	506.461	497.410
121.5	541.963	534.313	528.818	523.377	514.327
122.0	558.664	550.583	545.735	540.347	531.297
122.5	574.826	566.745	562.435	557.048	547.351
123.0	591.527	583.984	579.675	575.365	565.129
123.5	608.766	601.224	597.991	593.682	583.446
124.0	626.006	619.002	615.770	611.999	602.301
124.5	643.245	636.241	633.548	629.777	620.618
125.0	660.484	653.481	650.787	647.555	638.396
125.5	678.262	671.259	668.565	665.333	655.636
126.0	695.502	688.498	686.882	683.111	672.875
126.5	712.741	705.738	705.199	701.967	691.192
127.0	730.519	723.516	723.516	720.822	710.586
127.5	748.297	740.755	740.755	739.139	729.981
128.0	765.537	757.995	758.533	757.456	748.297
128.5	782.776	774.695	775.773	775.773	766.076
129.0	800.016	791.396	793.012	793.551	784.392
129.5	817.255	808.635	810.790	811.868	803.248
130.0	834.494	825.875	828.568	830.185	823.181
130.5	851.734	842.575	846.885	847.963	842.037
131.0	868.973	859.276	864.125	865.202	859.276
131.5	885.135	875.438	881.364	881.364	875.977
132.0	901.836	891.600	898.065	898.603	892.139
132.5	917.998	908.301	914.765	915.304	908.301
133.0	934.160	925.001	930.927	932.005	923.924
133.5	950.322	941.163	947.628	948.705	940.624
134.0	966.484	956.786	963.251	964.867	956.786
134.5	981.029	972.410	978.336	979.413	972.410
135.0	995.575	987.494	992.881	993.959	986.417
135.5	1009.582	1003.117	1007.427	1007.966	1000.424
136.0	1023.589	1017.663	1020.895	1022.512	1014.969
136.5	1038.135	1031.670	1034.364	1037.057	1030.054
137.0	1051.603	1045.677	1048.371	1050.526	1044.061
137.5	1065.071	1058.607	1061.300	1062.916	1056.452
138.0	1078.001	1071.536	1073.691	1074.769	1068.304
138.5	1090.930	1083.927	1086.082	1086.621	1079.617

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1103.321	1096.318	1098.473	1098.473	1090.930
139.5	1115.712	1108.709	1110.325	1109.786	1101.705
140.0	1127.564	1120.022	1122.177	1121.638	1113.557
140.5	1138.878	1130.797	1132.951	1132.413	1123.793
141.0	1150.191	1142.110	1143.726	1142.649	1134.029
141.5	1160.427	1152.346	1154.501	1152.885	1143.187
142.0	1171.201	1163.120	1164.737	1162.582	1152.885
142.5	1181.437	1173.356	1174.972	1172.818	1162.043
143.0	1191.673	1183.053	1184.670	1182.515	1171.740
143.5	1201.370	1193.289	1194.367	1192.212	1180.899
144.0	1210.529	1202.986	1203.525	1200.832	1189.518
144.5	1219.687	1212.145	1212.684	1209.451	1198.138
145.0	1228.307	1221.303	1221.303	1217.532	1206.219
145.5	1237.465	1230.462	1229.923	1226.691	1214.839
146.0	1246.085	1239.081	1238.543	1234.772	1223.458
146.5	1254.705	1247.701	1246.624	1243.391	1232.078
147.0	1262.786	1256.321	1254.166	1252.011	1240.698
147.5	1270.867	1264.402	1262.247	1260.092	1248.779
148.0	1278.948	1272.483	1269.250	1267.634	1257.398
148.5	1287.029	1280.564	1276.254	1275.176	1266.018
149.0	1294.571	1288.645	1283.257	1282.719	1274.638
149.5	1302.113	1296.187	1289.722	1290.261	1282.719
150.0	1309.655	1303.729	1296.726	1297.264	1290.261
150.5	1317.197	1311.271	1303.190	1303.729	1297.803
151.0	1324.201	1318.275	1309.655	1310.194	1304.807
151.5	1331.743	1325.278	1316.659	1316.659	1311.271
152.0	1338.747	1332.282	1323.124	1322.585	1317.736
152.5	1345.750	1338.747	1329.588	1329.050	1323.662
153.0	1352.754	1345.212	1336.053	1335.514	1329.050
153.5	1359.219	1351.676	1342.518	1341.979	1333.898
154.0	1365.683	1358.141	1349.521	1348.444	1339.285
154.5	1372.687	1364.067	1355.986	1354.370	1344.673
155.0	1379.152	1369.993	1362.451	1360.835	1350.599
155.5	1385.078	1375.380	1368.916	1367.299	1356.525
156.0	1391.004	1381.306	1375.919	1373.226	1362.451
156.5	1396.930	1387.233	1382.384	1379.690	1368.377
157.0	1402.856	1393.159	1388.849	1386.155	1374.303
157.5	1408.243	1398.546	1394.775	1392.081	1380.229
158.0	1413.630	1403.933	1400.701	1398.007	1386.155
158.5	1419.556	1409.859	1406.627	1403.933	1392.620
159.0	1424.405	1415.247	1412.014	1409.859	1398.546
159.5	1429.792	1420.634	1417.401	1415.785	1404.472
160.0	1434.641	1425.482	1422.789	1421.173	1410.398
160.5	1439.489	1430.331	1427.637	1426.560	1416.324
161.0	1444.338	1435.180	1432.486	1431.947	1422.250
161.5	1449.187	1440.567	1436.796	1437.335	1428.176
162.0	1454.574	1445.415	1441.106	1442.722	1433.563
162.5	1459.422	1450.264	1445.415	1447.570	1438.412
163.0	1464.271	1455.113	1449.725	1452.419	1443.261
163.5	1469.120	1459.422	1454.035	1457.268	1447.570
164.0	1473.968	1463.732	1457.806	1461.577	1451.880
164.5	1477.739	1468.042	1461.577	1465.887	1456.190
165.0	1482.049	1472.352	1465.349	1470.197	1459.961
165.5	1486.359	1476.123	1469.120	1473.968	1463.732
166.0	1490.669	1479.894	1472.891	1477.739	1466.965
166.5	1494.979	1483.665	1476.662	1480.972	1470.736

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1498.750	1486.898	1479.894	1484.204	1473.968
167.5	1502.521	1490.130	1483.665	1487.437	1477.739
168.0	1506.292	1493.363	1486.898	1490.669	1480.972
168.5	1510.063	1496.595	1490.130	1493.901	1484.743
169.0	1513.296	1499.289	1493.363	1496.595	1487.975
169.5	1515.989	1501.982	1496.056	1499.289	1491.208
170.0	1518.683	1504.676	1498.750	1501.982	1494.979
170.5	1521.377	1507.370	1500.905	1504.676	1497.672
171.0	1524.070	1509.524	1503.060	1507.370	1500.366
171.5	1526.225	1511.679	1505.215	1510.063	1503.060
172.0	1528.380	1513.834	1506.831	1512.218	1505.215
172.5	1530.535	1515.989	1508.447	1513.834	1506.831
173.0	1532.690	1518.144	1510.063	1515.989	1507.908
173.5	1534.306	1519.760	1511.679	1517.067	1508.986
174.0	1535.922	1521.377	1513.296	1518.144	1509.524
174.5	1537.000	1522.454	1514.373	1519.222	1510.063
175.0	1538.077	1524.070	1515.451	1519.760	1510.063
175.5	1539.155	1525.148	1517.067	1520.299	1510.602
176.0	1540.232	1526.225	1518.144	1520.299	1510.602
176.5	1540.771	1527.303	1518.683	1520.838	1510.602
177.0	1541.310	1528.380	1519.760	1520.838	1510.063
177.5	1542.387	1529.458	1520.838	1520.838	1510.063
178.0	1542.926	1529.458	1521.377	1520.838	1510.602
178.5	1542.926	1529.996	1521.915	1520.838	1510.602
179.0	1543.465	1530.535	1521.915	1520.838	1510.602
179.5	1544.003	1530.535	1522.454	1520.838	1510.602
180.0	1525.148	1525.148	1525.148	1525.148	1525.148



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	556.49	N.A.	7.10
0-30	1163.44	N.A.	14.90
0-40	1869.08	N.A.	23.90
0-60	3175.99	N.A.	40.60
0-80	3889.35	N.A.	49.70
0-90	3964.73	N.A.	50.70
10-90	3819.47	N.A.	48.80
20-40	1312.59	N.A.	16.80
20-50	2013.08	N.A.	25.70
40-70	1761.1	N.A.	22.50
60-80	713.37	N.A.	9.10
70-80	259.17	N.A.	3.30
80-90	75.38	N.A.	1.00
90-110	220.72	N.A.	2.80
90-120	566.60	N.A.	7.20
90-130	1147.83	N.A.	14.70
90-150	2669.77	N.A.	34.10
90-180	3858.52	N.A.	49.30
110-180	3637.8	N.A.	46.50
0-180	7823.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.26
10-20	411.24
20-30	606.94
30-40	705.64
40-50	700.49
50-60	606.42
60-70	454.19
70-80	259.17
80-90	75.38
90-100	47.61
100-110	173.11
110-120	345.88
120-130	581.24
130-140	760.02
140-150	761.92
150-160	629.38
160-170	414.74
170-180	144.63

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L15-935D-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-L8-935U-L15-935D-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	16.1	17.0	17.1	18.0	19.2	UGR Viewed Endwise	16.0	16.9	17.0	17.9	19.1
	3H	17.9	18.7	18.8	19.6	20.9		17.8	18.6	18.7	19.5	20.8
	4H	18.5	19.2	19.5	20.2	21.5		18.4	19.2	19.4	20.1	21.4
	6H	18.9	19.6	19.9	20.6	21.9		18.9	19.6	19.9	20.5	21.8
	8H	19.1	19.7	20.0	20.7	22.0		19.0	19.7	20.0	20.7	22.0
	12H	19.1	19.8	20.1	20.7	22.1		19.1	19.7	20.1	20.7	22.1

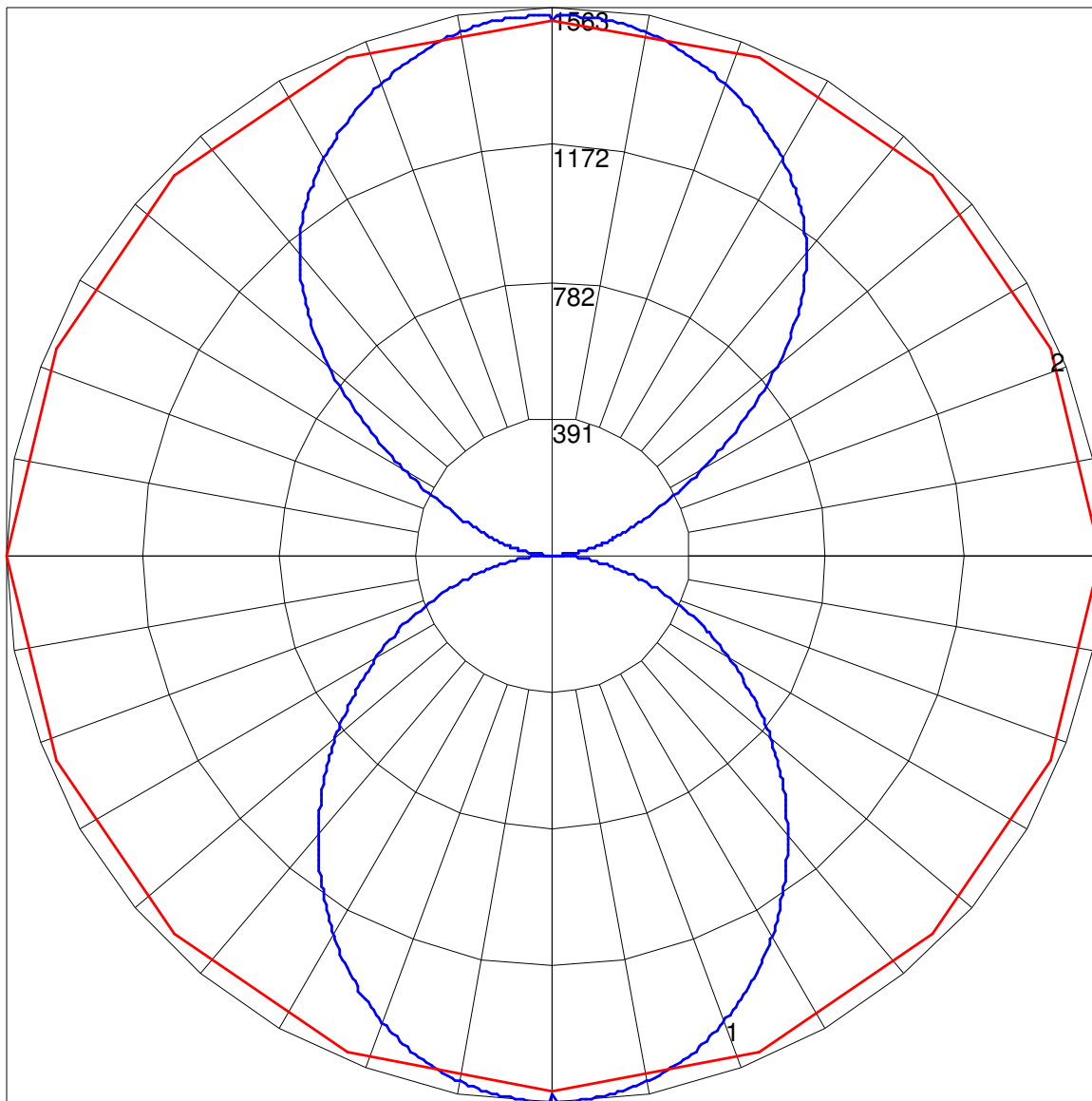
4H	2H	16.7	17.4	17.6	18.4	19.7		16.6	17.3	17.5	18.3	19.6
	3H	18.6	19.2	19.6	20.2	21.5		18.5	19.2	19.5	20.2	21.5
	4H	19.4	19.9	20.3	20.9	22.2		19.3	19.9	20.3	20.9	22.2
	6H	19.9	20.4	20.9	21.4	22.7		19.9	20.4	20.9	21.4	22.7
	8H	20.1	20.5	21.1	21.6	22.9		20.1	20.5	21.1	21.6	22.9
	12H	20.2	20.6	21.2	21.6	23.0		20.2	20.6	21.3	21.7	23.0

8H	4H	19.6	20.1	20.6	21.1	22.4		19.6	20.0	20.6	21.0	22.4
	6H	20.3	20.7	21.3	21.7	23.1		20.3	20.7	21.3	21.7	23.0
	8H	20.6	20.9	21.6	21.9	23.3		20.6	20.9	21.6	21.9	23.3
	12H	20.7	21.0	21.8	22.1	23.5		20.8	21.1	21.8	22.1	23.5

12H	4H	19.6	20.0	20.6	21.0	22.4		19.5	20.0	20.6	21.0	22.3
	6H	20.3	20.7	21.4	21.7	23.1		20.3	20.7	21.4	21.7	23.1
	8H	20.6	20.9	21.7	22.0	23.4		20.6	20.9	21.7	22.0	23.4

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1563.055 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.)