

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-L15-930D-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-L8-930U-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)

[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	7729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	10484	10222	10105
55	9637	9404	9305
65	8889	8674	8581
75	7538	7534	7530
85	5887	6124	6301

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1521.251	1521.251	1521.251	1521.251	1521.251
0.5	1544.223	1522.527	1514.870	1518.060	1512.956
1.0	1544.223	1521.889	1514.870	1518.060	1512.956
1.5	1543.585	1521.251	1514.232	1518.060	1512.317
2.0	1542.947	1520.613	1513.594	1517.422	1512.317
2.5	1542.308	1519.975	1512.317	1516.784	1511.679
3.0	1541.032	1518.698	1511.679	1516.146	1510.403
3.5	1539.756	1517.422	1510.403	1514.870	1509.127
4.0	1538.480	1516.146	1509.127	1513.594	1507.851
4.5	1537.204	1514.232	1507.851	1512.317	1505.936
5.0	1535.927	1512.956	1505.936	1510.403	1504.022
5.5	1534.013	1511.041	1504.022	1508.489	1502.108
6.0	1532.099	1508.489	1502.108	1506.574	1499.555
6.5	1529.546	1506.574	1499.555	1504.022	1497.641
7.0	1527.632	1504.022	1497.641	1501.470	1495.088
7.5	1525.718	1501.470	1495.088	1498.917	1493.174
8.0	1522.527	1498.917	1491.898	1496.365	1490.622
8.5	1519.975	1495.727	1488.707	1493.174	1487.431
9.0	1516.784	1493.174	1486.155	1489.984	1484.241
9.5	1513.594	1489.984	1482.326	1486.155	1481.050
10.0	1510.403	1486.793	1479.136	1482.964	1477.221
10.5	1506.574	1482.964	1475.307	1479.136	1474.031
11.0	1503.384	1479.136	1471.478	1475.307	1469.564
11.5	1498.917	1475.307	1467.650	1471.478	1465.735
12.0	1495.088	1471.478	1463.821	1467.012	1461.269
12.5	1491.260	1467.012	1459.354	1462.545	1456.802
13.0	1486.793	1463.183	1454.888	1458.078	1452.335
13.5	1482.326	1458.078	1450.421	1452.973	1447.868
14.0	1477.860	1453.611	1445.316	1448.507	1443.402
14.5	1473.393	1449.145	1440.211	1443.402	1438.297
15.0	1468.926	1444.040	1435.106	1438.297	1433.192
15.5	1463.183	1439.573	1430.001	1432.554	1427.449
16.0	1456.802	1434.468	1424.258	1427.449	1422.344
16.5	1450.421	1428.725	1418.515	1421.706	1416.601
17.0	1444.678	1422.982	1412.772	1415.963	1410.858
17.5	1438.297	1416.601	1406.391	1409.582	1404.477
18.0	1431.916	1410.220	1400.010	1403.201	1398.096
18.5	1425.535	1403.839	1393.629	1396.182	1391.715
19.0	1419.154	1397.458	1387.886	1389.801	1384.058
19.5	1412.134	1391.077	1381.505	1382.143	1376.400
20.0	1405.753	1384.058	1375.762	1375.124	1368.743
20.5	1398.734	1377.676	1369.381	1367.467	1361.086
21.0	1391.715	1370.657	1362.362	1359.809	1352.790
21.5	1384.058	1363.638	1354.705	1352.152	1344.495
22.0	1377.038	1355.981	1346.409	1343.857	1336.838
22.5	1369.381	1348.323	1338.752	1335.561	1328.542
23.0	1361.724	1340.666	1331.095	1326.628	1320.247
23.5	1354.066	1333.009	1322.799	1318.332	1312.589
24.0	1345.771	1325.352	1315.142	1310.037	1304.294
24.5	1337.476	1317.056	1306.846	1301.742	1295.999
25.0	1329.818	1308.761	1298.551	1293.446	1287.703
25.5	1321.523	1300.465	1289.617	1285.151	1278.770
26.0	1312.589	1291.532	1281.322	1276.855	1270.474
26.5	1304.294	1283.236	1272.389	1268.560	1262.179

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27.0	1295.360	1274.303	1263.455	1260.264	1253.245
27.5	1286.427	1265.369	1255.160	1251.969	1244.950
28.0	1277.493	1255.798	1245.588	1243.036	1236.016
28.5	1267.922	1246.226	1236.654	1234.740	1227.083
29.0	1258.350	1237.293	1227.721	1225.807	1218.149
29.5	1249.417	1227.721	1218.787	1216.235	1209.854
30.0	1239.845	1218.149	1209.854	1207.301	1200.920
30.5	1230.273	1208.578	1200.282	1198.368	1191.987
31.0	1220.064	1199.644	1190.711	1188.796	1183.053
31.5	1210.492	1190.073	1181.139	1179.225	1173.482
32.0	1200.282	1179.863	1171.567	1169.015	1163.910
32.5	1190.073	1170.291	1161.996	1159.443	1153.700
33.0	1179.863	1160.720	1152.424	1149.872	1143.491
33.5	1170.291	1150.510	1142.214	1139.662	1133.919
34.0	1159.443	1140.300	1132.643	1129.452	1123.709
34.5	1149.234	1130.090	1121.795	1119.242	1112.861
35.0	1139.024	1120.519	1111.585	1109.033	1102.014
35.5	1128.176	1109.671	1101.375	1098.823	1091.166
36.0	1117.328	1099.461	1091.166	1087.975	1080.956
36.5	1107.118	1089.251	1080.956	1077.765	1070.746
37.0	1096.271	1078.404	1070.108	1066.918	1059.898
37.5	1085.423	1067.556	1059.898	1056.070	1049.689
38.0	1073.937	1056.708	1049.051	1045.222	1038.841
38.5	1063.089	1045.860	1038.203	1035.012	1027.993
39.0	1052.879	1035.012	1027.355	1024.164	1017.783
39.5	1041.393	1024.164	1017.145	1013.316	1006.297
40.0	1030.545	1012.678	1006.297	1002.469	996.088
40.5	1019.059	1001.831	995.449	991.621	985.240
41.0	1008.212	990.345	984.602	980.135	973.754
41.5	996.726	979.497	973.116	969.287	962.268
42.0	985.878	968.011	962.268	958.439	951.420
42.5	975.030	957.163	951.420	946.953	940.572
43.0	963.544	946.315	940.572	936.105	929.086
43.5	952.696	934.829	929.086	925.257	918.238
44.0	941.210	923.343	917.600	913.772	907.390
44.5	929.724	911.857	906.114	902.286	895.904
45.0	918.238	901.009	895.266	890.800	885.057
45.5	907.390	889.523	883.780	879.952	874.209
46.0	895.904	878.037	872.294	868.466	863.361
46.5	884.419	866.551	861.447	857.618	852.513
47.0	872.933	855.066	849.961	846.132	841.027
47.5	860.809	843.580	838.475	834.646	830.179
48.0	849.323	832.094	826.989	823.798	818.693
48.5	837.837	820.608	816.141	812.312	807.207
49.0	825.713	809.122	804.655	800.826	796.360
49.5	814.227	797.636	793.169	789.978	785.512
50.0	802.103	786.150	781.683	778.492	774.026
50.5	789.978	774.664	770.197	767.007	763.178
51.0	777.854	763.178	758.711	755.521	751.692
51.5	766.368	751.692	747.225	744.673	740.206
52.0	754.882	740.206	735.739	733.187	729.358
52.5	742.758	728.720	724.253	722.339	717.872
53.0	731.272	717.234	712.767	710.853	706.386
53.5	719.148	705.748	701.281	699.367	694.900
54.0	707.662	694.262	690.434	688.519	683.414
54.5	696.176	683.414	678.948	677.033	671.928

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55.0	684.691	672.566	668.100	666.185	661.081
55.5	673.843	661.081	656.614	654.699	650.233
56.0	661.719	649.595	645.128	643.852	638.747
56.5	650.233	638.747	633.961	632.557	627.516
57.0	639.385	627.261	622.666	621.135	616.349
57.5	628.154	616.158	611.436	610.032	605.055
58.0	616.923	605.182	600.141	598.865	593.888
58.5	605.629	594.143	589.038	587.889	583.167
59.0	594.526	583.040	577.871	576.786	572.256
59.5	583.742	571.809	566.513	565.747	561.472
60.0	572.703	560.642	555.282	554.644	550.496
60.5	561.791	549.731	544.434	543.477	539.393
61.0	551.071	538.819	533.650	532.565	528.545
61.5	539.585	528.035	522.930	521.718	517.825
62.0	528.290	516.932	511.827	510.934	506.850
62.5	516.740	506.658	501.362	500.660	496.448
63.0	505.637	497.597	493.322	493.003	489.557
63.5	494.407	487.706	484.324	483.623	480.049
64.0	487.643	478.071	475.008	473.604	469.520
64.5	477.114	467.797	464.479	463.203	459.374
65.0	465.309	456.822	454.078	452.866	449.165
65.5	453.249	445.719	443.230	442.656	438.891
66.0	441.635	434.871	432.638	432.382	428.362
66.5	430.149	423.768	421.854	421.854	418.280
67.0	418.791	412.729	411.197	411.389	408.134
67.5	407.624	401.881	400.477	400.860	397.669
68.0	396.329	391.033	389.757	390.267	386.949
68.5	384.971	379.994	378.973	379.675	376.420
69.0	373.230	368.891	368.125	368.508	365.509
69.5	361.808	357.979	357.086	357.532	354.788
70.0	350.513	346.940	346.302	346.493	344.068
70.5	339.410	335.837	335.390	335.581	333.284
71.0	328.052	324.797	324.670	324.925	322.436
71.5	316.693	313.758	314.013	314.205	312.035
72.0	305.654	302.655	303.165	303.421	301.570
72.5	294.615	291.743	292.573	292.828	291.297
73.0	283.703	281.087	282.235	282.554	281.214
73.5	273.110	270.558	271.898	272.472	271.005
74.0	262.646	260.029	261.688	262.135	261.178
74.5	252.181	249.692	251.542	251.989	251.287
75.0	241.652	239.418	241.524	241.971	241.396
75.5	231.251	229.145	231.570	232.144	231.506
76.0	220.722	219.254	221.743	222.381	221.870
76.5	210.767	209.491	211.980	212.682	212.235
77.0	201.068	199.664	202.408	203.046	202.344
77.5	191.050	190.093	192.836	193.347	192.645
78.0	181.287	180.521	183.265	184.030	183.329
78.5	171.587	171.205	173.821	174.714	174.140
79.0	162.271	161.888	164.568	165.653	165.206
79.5	152.955	152.763	155.443	156.592	156.209
80.0	143.766	143.830	146.318	147.914	147.403
80.5	134.513	135.088	137.640	139.171	138.789
81.0	125.644	126.537	129.026	130.621	130.366
81.5	117.093	118.050	120.603	122.198	122.006
82.0	109.117	109.755	112.371	114.030	113.839
82.5	101.140	101.714	104.267	105.926	105.798

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83.0	93.164	94.057	96.291	98.014	98.141
83.5	85.315	86.400	88.569	90.229	90.611
84.0	77.977	78.870	80.912	82.507	83.082
84.5	70.511	71.468	73.382	74.978	75.552
85.0	63.556	64.321	66.108	67.512	68.022
85.5	56.792	57.175	58.706	60.174	60.684
86.0	50.155	50.283	51.623	52.963	53.601
86.5	43.583	43.583	44.795	46.008	46.582
87.0	36.947	36.947	37.840	39.371	39.818
87.5	30.374	30.438	31.267	32.799	33.373
88.0	24.120	24.057	24.886	26.545	27.183
88.5	18.122	17.739	18.824	20.292	21.185
89.0	11.741	11.550	13.017	14.421	15.378
89.5	5.424	6.445	7.785	8.870	9.189
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.939	2.076	1.916	1.863	2.023
91.0	8.676	4.577	3.726	3.672	3.619
91.5	13.945	9.314	5.535	5.482	5.429
92.0	19.267	15.488	7.984	7.132	7.132
92.5	24.802	21.875	12.348	8.942	8.782
93.0	30.551	27.996	17.457	11.869	10.698
93.5	36.352	33.850	22.940	16.020	13.945
94.0	42.047	39.599	29.007	20.970	18.362
94.5	47.902	45.347	35.341	26.080	23.152
95.0	53.650	51.255	41.568	31.296	27.889
95.5	59.398	56.790	47.636	36.671	32.892
96.0	64.880	62.432	53.597	42.260	38.002
96.5	70.415	68.074	59.558	47.955	43.271
97.0	75.791	73.609	65.466	53.650	48.860
97.5	81.326	79.197	71.427	59.451	54.448
98.0	86.808	84.679	77.228	65.199	60.090
98.5	92.290	90.215	82.817	71.054	65.732
99.0	97.879	95.910	88.512	76.643	71.427
99.5	103.521	101.551	94.260	82.231	77.015
100.0	109.056	107.246	100.008	87.979	82.497
100.5	114.804	112.941	105.756	93.940	88.033
101.0	120.712	118.636	111.611	99.955	94.047
101.5	126.726	124.438	117.572	105.969	100.274
102.0	132.581	130.452	123.533	111.983	106.448
102.5	138.702	136.413	129.707	117.998	112.569
103.0	144.982	142.587	135.828	123.959	118.796
103.5	151.263	148.868	142.321	130.346	124.970
104.0	157.703	155.201	148.921	136.945	131.410
104.5	164.356	161.801	155.521	143.705	137.850
105.0	171.168	168.561	162.067	150.358	144.397
105.5	178.141	175.426	168.827	157.064	150.890
106.0	185.220	182.346	175.693	163.877	157.383
106.5	192.352	189.478	182.878	170.743	163.930
107.0	199.963	196.929	190.542	178.034	171.062
107.5	207.840	204.593	198.313	185.752	178.780
108.0	215.664	212.470	206.243	194.108	186.710
108.5	223.914	220.507	214.174	202.464	194.906
109.0	232.376	228.704	222.317	210.927	203.209
109.5	241.052	237.220	230.886	219.336	211.619
110.0	250.313	245.948	239.668	227.959	220.401
110.5	259.787	254.890	248.663	237.220	229.502

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111.0	269.367	264.257	257.977	246.853	238.657
111.5	279.160	273.891	267.451	256.646	248.077
112.0	289.326	283.791	276.871	266.440	257.072
112.5	299.545	293.956	286.399	276.180	266.599
113.0	310.243	304.441	296.458	286.239	276.552
113.5	321.260	315.406	307.103	297.097	287.250
114.0	332.437	326.583	318.386	308.646	299.119
114.5	343.987	338.132	329.883	320.675	311.733
115.0	355.696	350.001	341.805	332.810	324.507
115.5	367.938	361.977	354.046	344.892	337.121
116.0	380.286	374.431	366.714	357.612	349.948
116.5	393.326	387.205	379.807	370.652	363.627
117.0	406.898	400.245	393.006	384.703	377.731
117.5	416.904	410.411	405.088	397.637	392.048
118.0	429.678	422.279	417.489	410.996	404.769
118.5	444.527	436.437	430.157	423.397	416.212
119.0	459.057	450.382	444.527	437.448	428.932
119.5	473.747	465.231	459.749	451.712	443.197
120.0	488.916	480.613	475.024	467.307	458.259
120.5	503.978	496.208	490.779	483.860	474.333
121.0	519.786	512.122	506.640	500.359	491.417
121.5	535.434	527.876	522.447	517.071	508.130
122.0	551.933	543.950	539.159	533.837	524.895
122.5	567.900	559.917	555.659	550.336	540.756
123.0	584.400	576.949	572.691	568.433	558.320
123.5	601.432	593.980	590.787	586.529	576.416
124.0	618.463	611.544	608.351	604.625	595.045
124.5	635.495	628.576	625.915	622.189	613.141
125.0	652.527	645.608	642.946	639.753	630.705
125.5	670.091	663.171	660.510	657.317	647.736
126.0	687.122	680.203	678.606	674.881	664.768
126.5	704.154	697.235	696.703	693.509	682.864
127.0	721.718	714.799	714.799	712.138	702.025
127.5	739.282	731.830	731.830	730.234	721.186
128.0	756.313	748.862	749.394	748.330	739.282
128.5	773.345	765.362	766.426	766.426	756.846
129.0	790.377	781.861	783.458	783.990	774.942
129.5	807.409	798.893	801.022	802.086	793.570
130.0	824.440	815.924	818.586	820.182	813.263
130.5	841.472	832.424	836.682	837.746	831.892
131.0	858.504	848.923	853.713	854.778	848.923
131.5	874.471	864.891	870.745	870.745	865.423
132.0	890.970	880.858	887.245	887.777	881.390
132.5	906.938	897.357	903.744	904.276	897.357
133.0	922.905	913.857	919.711	920.776	912.792
133.5	938.872	929.824	936.211	937.275	929.292
134.0	954.839	945.259	951.646	953.242	945.259
134.5	969.210	960.694	966.548	967.613	960.694
135.0	983.580	975.597	980.919	981.983	974.532
135.5	997.418	991.031	995.289	995.822	988.370
136.0	1011.257	1005.402	1008.595	1010.192	1002.741
136.5	1025.627	1019.240	1021.901	1024.563	1017.643
137.0	1038.933	1033.078	1035.740	1037.869	1031.482
137.5	1052.239	1045.852	1048.513	1050.110	1043.723
138.0	1065.013	1058.626	1060.755	1061.819	1055.433
138.5	1077.787	1070.868	1072.996	1073.529	1066.610

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1090.028	1083.109	1085.238	1085.238	1077.787
139.5	1102.270	1095.351	1096.947	1096.415	1088.431
140.0	1113.979	1106.528	1108.657	1108.124	1100.141
140.5	1125.156	1117.172	1119.301	1118.769	1110.253
141.0	1136.333	1128.349	1129.946	1128.882	1120.366
141.5	1146.446	1138.462	1140.591	1138.994	1129.414
142.0	1157.090	1149.107	1150.704	1148.575	1138.994
142.5	1167.203	1159.219	1160.816	1158.687	1148.042
143.0	1177.316	1168.800	1170.396	1168.268	1157.623
143.5	1186.896	1178.912	1179.977	1177.848	1166.671
144.0	1195.944	1188.493	1189.025	1186.364	1175.187
144.5	1204.992	1197.541	1198.073	1194.880	1183.702
145.0	1213.508	1206.589	1206.589	1202.863	1191.686
145.5	1222.556	1215.637	1215.105	1211.911	1200.202
146.0	1231.072	1224.153	1223.621	1219.895	1208.718
146.5	1239.588	1232.669	1231.604	1228.411	1217.234
147.0	1247.571	1241.184	1239.055	1236.927	1225.749
147.5	1255.555	1249.168	1247.039	1244.910	1233.733
148.0	1263.539	1257.152	1253.958	1252.361	1242.249
148.5	1271.522	1265.135	1260.877	1259.813	1250.765
149.0	1278.973	1273.119	1267.796	1267.264	1259.281
149.5	1286.425	1280.570	1274.183	1274.716	1267.264
150.0	1293.876	1288.022	1281.102	1281.635	1274.716
150.5	1301.328	1295.473	1287.489	1288.022	1282.167
151.0	1308.247	1302.392	1293.876	1294.408	1289.086
151.5	1315.698	1309.311	1300.795	1300.795	1295.473
152.0	1322.617	1316.230	1307.182	1306.650	1301.860
152.5	1329.536	1322.617	1313.569	1313.037	1307.714
153.0	1336.455	1329.004	1319.956	1319.424	1313.037
153.5	1342.842	1335.391	1326.343	1325.811	1317.827
154.0	1349.229	1341.778	1333.262	1332.198	1323.149
154.5	1356.148	1347.632	1339.649	1338.052	1328.472
155.0	1362.535	1353.487	1346.036	1344.439	1334.326
155.5	1368.390	1358.810	1352.423	1350.826	1340.181
156.0	1374.245	1364.664	1359.342	1356.681	1346.036
156.5	1380.099	1370.519	1365.729	1363.067	1351.890
157.0	1385.954	1376.373	1372.116	1369.454	1357.745
157.5	1391.276	1381.696	1377.970	1375.309	1363.600
158.0	1396.599	1387.018	1383.825	1381.164	1369.454
158.5	1402.453	1392.873	1389.679	1387.018	1375.841
159.0	1407.243	1398.195	1395.002	1392.873	1381.696
159.5	1412.566	1403.518	1400.324	1398.728	1387.551
160.0	1417.356	1408.308	1405.647	1404.050	1393.405
160.5	1422.146	1413.098	1410.437	1409.372	1399.260
161.0	1426.936	1417.888	1415.227	1414.695	1405.114
161.5	1431.726	1423.211	1419.485	1420.017	1410.969
162.0	1437.049	1428.001	1423.743	1425.340	1416.291
162.5	1441.839	1432.791	1428.001	1430.130	1421.082
163.0	1446.629	1437.581	1432.259	1434.920	1425.872
163.5	1451.419	1441.839	1436.517	1439.710	1430.130
164.0	1456.210	1446.097	1440.242	1443.968	1434.388
164.5	1459.935	1450.355	1443.968	1448.226	1438.646
165.0	1464.193	1454.613	1447.694	1452.484	1442.371
165.5	1468.451	1458.338	1451.419	1456.210	1446.097
166.0	1472.709	1462.064	1455.145	1459.935	1449.290
166.5	1476.967	1465.790	1458.871	1463.129	1453.016

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1480.693	1468.983	1462.064	1466.322	1456.210
167.5	1484.418	1472.177	1465.790	1469.516	1459.935
168.0	1488.144	1475.370	1468.983	1472.709	1463.129
168.5	1491.870	1478.564	1472.177	1475.902	1466.854
169.0	1495.063	1481.225	1475.370	1478.564	1470.048
169.5	1497.724	1483.886	1478.031	1481.225	1473.241
170.0	1500.385	1486.547	1480.693	1483.886	1476.967
170.5	1503.047	1489.208	1482.822	1486.547	1479.628
171.0	1505.708	1491.337	1484.950	1489.208	1482.289
171.5	1507.837	1493.466	1487.079	1491.870	1484.950
172.0	1509.966	1495.595	1488.676	1493.999	1487.079
172.5	1512.095	1497.724	1490.273	1495.595	1488.676
173.0	1514.224	1499.853	1491.870	1497.724	1489.741
173.5	1515.820	1501.450	1493.466	1498.789	1490.805
174.0	1517.417	1503.047	1495.063	1499.853	1491.337
174.5	1518.482	1504.111	1496.128	1500.918	1491.870
175.0	1519.546	1505.708	1497.192	1501.450	1491.870
175.5	1520.611	1506.772	1498.789	1501.982	1492.402
176.0	1521.675	1507.837	1499.853	1501.982	1492.402
176.5	1522.207	1508.901	1500.385	1502.514	1492.402
177.0	1522.740	1509.966	1501.450	1502.514	1491.870
177.5	1523.804	1511.030	1502.514	1502.514	1491.870
178.0	1524.336	1511.030	1503.047	1502.514	1492.402
178.5	1524.336	1511.563	1503.579	1502.514	1492.402
179.0	1524.869	1512.095	1503.579	1502.514	1492.402
179.5	1525.401	1512.095	1504.111	1502.514	1492.402
180.0	1506.772	1506.772	1506.772	1506.772	1506.772



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-L15-930D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	549.79	N.A.	7.10
0-30	1149.42	N.A.	14.90
0-40	1846.56	N.A.	23.90
0-60	3137.72	N.A.	40.60
0-80	3842.49	N.A.	49.70
0-90	3916.96	N.A.	50.70
10-90	3773.45	N.A.	48.80
20-40	1296.77	N.A.	16.80
20-50	1988.82	N.A.	25.70
40-70	1739.88	N.A.	22.50
60-80	704.77	N.A.	9.10
70-80	256.05	N.A.	3.30
80-90	74.47	N.A.	1.00
90-110	218.06	N.A.	2.80
90-120	559.77	N.A.	7.20
90-130	1134.00	N.A.	14.70
90-150	2637.6	N.A.	34.10
90-180	3812.03	N.A.	49.30
110-180	3593.98	N.A.	46.50
0-180	7728.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.51
10-20	406.28
20-30	599.63
30-40	697.14
40-50	692.05
50-60	599.11
60-70	448.72
70-80	256.05
80-90	74.47
90-100	47.03
100-110	171.02
110-120	341.71
120-130	574.23
130-140	750.86
140-150	752.74
150-160	621.80
160-170	409.74
170-180	142.89

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-930U-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	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-L8-930U-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	16.0	16.9	17.0	17.9	19.1	15.9	16.8	16.9	17.8	19.0
	3H	17.8	18.6	18.7	19.5	20.8	17.7	18.5	18.6	19.4	20.7
	4H	18.4	19.1	19.4	20.1	21.4	18.3	19.1	19.3	20.0	21.3
	6H	18.8	19.5	19.8	20.5	21.8	18.8	19.5	19.8	20.4	21.7
	8H	19.0	19.6	19.9	20.6	21.9	18.9	19.6	19.9	20.6	21.9
	12H	19.0	19.7	20.0	20.6	22.0	19.0	19.6	20.0	20.6	22.0

### UGR Viewed Endwise

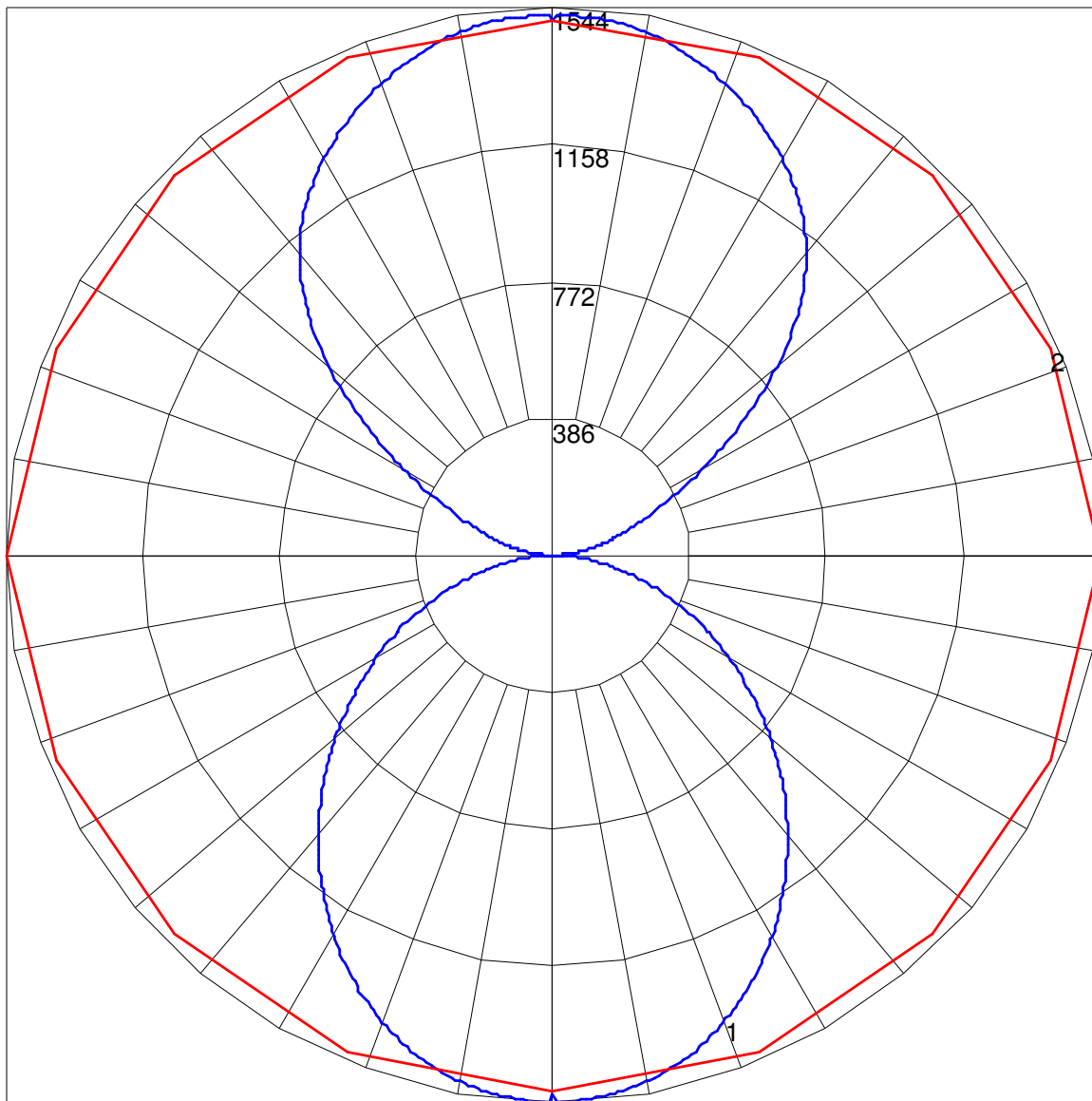
4H	2H	16.5	17.3	17.5	18.3	19.6	16.5	17.2	17.4	18.2	19.5
	3H	18.5	19.1	19.5	20.1	21.4	18.4	19.1	19.4	20.1	21.4
	4H	19.3	19.8	20.2	20.8	22.1	19.2	19.8	20.2	20.8	22.1
	6H	19.8	20.3	20.8	21.3	22.6	19.8	20.3	20.8	21.3	22.6
	8H	20.0	20.4	21.0	21.5	22.8	20.0	20.4	21.0	21.5	22.8
	12H	20.1	20.5	21.1	21.5	22.9	20.1	20.5	21.2	21.6	22.9

8H	4H	19.5	20.0	20.5	21.0	22.3	19.5	19.9	20.5	20.9	22.3
	6H	20.2	20.6	21.2	21.6	23.0	20.2	20.6	21.2	21.6	22.9
	8H	20.4	20.8	21.5	21.8	23.2	20.5	20.8	21.5	21.8	23.2
	12H	20.6	20.9	21.7	22.0	23.4	20.7	21.0	21.7	22.0	23.4

12H	4H	19.5	19.9	20.5	20.9	22.3	19.4	19.9	20.5	20.9	22.2
	6H	20.2	20.6	21.3	21.6	23.0	20.2	20.6	21.3	21.6	23.0
	8H	20.5	20.8	21.6	21.9	23.3	20.5	20.8	21.6	21.9	23.3

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1544.223 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.)