

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-940U-L12-940D-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-L8-940U-L12-940D-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	7157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	9709	9466	9358
55	8925	8708	8617
65	8232	8033	7946
75	6980	6977	6973
85	5452	5671	5835

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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>	1408.742	1408.742	1408.742	1408.742	1408.742
<b>0.5</b>	1430.015	1409.924	1402.833	1405.788	1401.061
<b>1.0</b>	1430.015	1409.333	1402.833	1405.788	1401.061
<b>1.5</b>	1429.425	1408.742	1402.242	1405.788	1400.470
<b>2.0</b>	1428.834	1408.152	1401.651	1405.197	1400.470
<b>2.5</b>	1428.243	1407.561	1400.470	1404.606	1399.879
<b>3.0</b>	1427.061	1406.379	1399.879	1404.015	1398.697
<b>3.5</b>	1425.879	1405.197	1398.697	1402.833	1397.515
<b>4.0</b>	1424.697	1404.015	1397.515	1401.651	1396.333
<b>4.5</b>	1423.515	1402.242	1396.333	1400.470	1394.561
<b>5.0</b>	1422.334	1401.061	1394.561	1398.697	1392.788
<b>5.5</b>	1420.561	1399.288	1392.788	1396.924	1391.015
<b>6.0</b>	1418.788	1396.924	1391.015	1395.151	1388.651
<b>6.5</b>	1416.424	1395.151	1388.651	1392.788	1386.879
<b>7.0</b>	1414.652	1392.788	1386.879	1390.424	1384.515
<b>7.5</b>	1412.879	1390.424	1384.515	1388.060	1382.742
<b>8.0</b>	1409.924	1388.060	1381.560	1385.697	1380.379
<b>8.5</b>	1407.561	1385.106	1378.606	1382.742	1377.424
<b>9.0</b>	1404.606	1382.742	1376.242	1379.788	1374.469
<b>9.5</b>	1401.651	1379.788	1372.697	1376.242	1371.515
<b>10.0</b>	1398.697	1376.833	1369.742	1373.288	1367.969
<b>10.5</b>	1395.151	1373.288	1366.197	1369.742	1365.015
<b>11.0</b>	1392.197	1369.742	1362.651	1366.197	1360.878
<b>11.5</b>	1388.060	1366.197	1359.106	1362.651	1357.333
<b>12.0</b>	1384.515	1362.651	1355.560	1358.515	1353.196
<b>12.5</b>	1380.969	1358.515	1351.424	1354.378	1349.060
<b>13.0</b>	1376.833	1354.969	1347.287	1350.242	1344.924
<b>13.5</b>	1372.697	1350.242	1343.151	1345.515	1340.787
<b>14.0</b>	1368.560	1346.105	1338.424	1341.378	1336.651
<b>14.5</b>	1364.424	1341.969	1333.696	1336.651	1331.923
<b>15.0</b>	1360.287	1337.242	1328.969	1331.923	1327.196
<b>15.5</b>	1354.969	1333.105	1324.242	1326.605	1321.878
<b>16.0</b>	1349.060	1328.378	1318.923	1321.878	1317.151
<b>16.5</b>	1343.151	1323.060	1313.605	1316.560	1311.832
<b>17.0</b>	1337.833	1317.741	1308.287	1311.241	1306.514
<b>17.5</b>	1331.923	1311.832	1302.378	1305.332	1300.605
<b>18.0</b>	1326.014	1305.923	1296.469	1299.423	1294.696
<b>18.5</b>	1320.105	1300.014	1290.559	1292.923	1288.787
<b>19.0</b>	1314.196	1294.105	1285.241	1287.014	1281.696
<b>19.5</b>	1307.696	1288.196	1279.332	1279.923	1274.605
<b>20.0</b>	1301.787	1281.696	1274.014	1273.423	1267.514
<b>20.5</b>	1295.287	1275.786	1268.105	1266.332	1260.423
<b>21.0</b>	1288.787	1269.286	1261.605	1259.241	1252.741
<b>21.5</b>	1281.696	1262.786	1254.514	1252.150	1245.059
<b>22.0</b>	1275.196	1255.695	1246.832	1244.468	1237.968
<b>22.5</b>	1268.105	1248.604	1239.741	1236.786	1230.286
<b>23.0</b>	1261.014	1241.513	1232.650	1228.513	1222.604
<b>23.5</b>	1253.923	1234.422	1224.968	1220.831	1215.513
<b>24.0</b>	1246.241	1227.331	1217.877	1213.149	1207.831
<b>24.5</b>	1238.559	1219.650	1210.195	1205.468	1200.149
<b>25.0</b>	1231.468	1211.968	1202.513	1197.786	1192.467
<b>25.5</b>	1223.786	1204.286	1194.240	1190.104	1184.195
<b>26.0</b>	1215.513	1196.013	1186.558	1182.422	1176.513
<b>26.5</b>	1207.831	1188.331	1178.285	1174.740	1168.831

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27.0	1199.558	1180.058	1170.013	1167.058	1160.558
27.5	1191.286	1171.785	1162.331	1159.376	1152.876
28.0	1183.013	1162.922	1153.467	1151.103	1144.603
28.5	1174.149	1154.058	1145.194	1143.421	1136.330
29.0	1165.285	1145.785	1136.921	1135.149	1128.058
29.5	1157.012	1136.921	1128.649	1126.285	1120.376
30.0	1148.149	1128.058	1120.376	1118.012	1112.103
30.5	1139.285	1119.194	1111.512	1109.739	1103.830
31.0	1129.830	1110.921	1102.648	1100.876	1095.557
31.5	1120.967	1102.057	1093.785	1092.012	1086.694
32.0	1111.512	1092.603	1084.921	1082.557	1077.830
32.5	1102.057	1083.739	1076.057	1073.693	1068.375
33.0	1092.603	1074.875	1067.193	1064.830	1058.921
33.5	1083.739	1065.421	1057.739	1055.375	1050.057
34.0	1073.693	1055.966	1048.875	1045.920	1040.602
34.5	1064.239	1046.511	1038.829	1036.466	1030.557
35.0	1054.784	1037.648	1029.375	1027.011	1020.511
35.5	1044.739	1027.602	1019.920	1017.556	1010.465
36.0	1034.693	1018.147	1010.465	1007.511	1001.011
36.5	1025.238	1008.693	1001.011	998.056	991.556
37.0	1015.193	998.647	990.965	988.011	981.511
37.5	1005.147	988.602	981.511	977.965	972.056
38.0	994.511	978.556	971.465	967.920	962.010
38.5	984.465	968.510	961.419	958.465	951.965
39.0	975.011	958.465	951.374	948.419	942.510
39.5	964.374	948.419	941.919	938.374	931.874
40.0	954.328	937.783	931.874	928.328	922.419
40.5	943.692	927.737	921.828	918.283	912.373
41.0	933.646	917.101	911.783	907.646	901.737
41.5	923.010	907.055	901.146	897.601	891.101
42.0	912.964	896.419	891.101	887.555	881.055
42.5	902.919	886.373	881.055	876.919	871.009
43.0	892.282	876.328	871.009	866.873	860.373
43.5	882.237	865.691	860.373	856.827	850.327
44.0	871.600	855.055	849.736	846.191	840.282
44.5	860.964	844.418	839.100	835.554	829.645
45.0	850.327	834.373	829.054	824.918	819.600
45.5	840.282	823.736	818.418	814.872	809.554
46.0	829.645	813.100	807.781	804.236	799.509
46.5	819.009	802.463	797.736	794.190	789.463
47.0	808.372	791.827	787.099	783.554	778.827
47.5	797.145	781.190	776.463	772.917	768.781
48.0	786.508	770.554	765.826	762.872	758.145
48.5	775.872	759.917	755.781	752.235	747.508
49.0	764.645	749.281	745.144	741.599	737.463
49.5	754.008	738.644	734.508	731.553	727.417
50.0	742.781	728.008	723.871	720.917	716.780
50.5	731.553	717.371	713.235	710.280	706.735
51.0	720.326	706.735	702.598	699.644	696.098
51.5	709.689	696.098	691.962	689.598	685.462
52.0	699.053	685.462	681.326	678.962	675.416
52.5	687.826	674.825	670.689	668.916	664.780
53.0	677.189	664.189	660.053	658.280	654.143
53.5	665.962	653.553	649.416	647.643	643.507
54.0	655.325	642.916	639.371	637.598	632.870
54.5	644.689	632.870	628.734	626.961	622.234

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55.0	634.052	622.825	618.688	616.916	612.188
55.5	624.007	612.188	608.052	606.279	602.143
56.0	612.779	601.552	597.416	596.234	591.506
56.5	602.143	591.506	587.075	585.775	581.106
57.0	592.097	580.870	576.615	575.197	570.765
57.5	581.697	570.588	566.215	564.915	560.306
58.0	571.297	560.424	555.756	554.574	549.965
58.5	560.838	550.201	545.474	544.410	540.038
59.0	550.556	539.919	535.133	534.129	529.933
59.5	540.569	529.519	524.615	523.906	519.947
60.0	530.347	519.178	514.215	513.624	509.783
60.5	520.242	509.074	504.169	503.283	499.501
61.0	510.315	498.969	494.183	493.178	489.455
61.5	499.678	488.983	484.255	483.133	479.528
62.0	489.219	478.701	473.973	473.146	469.364
62.5	478.523	469.187	464.282	463.632	459.732
63.0	468.241	460.796	456.837	456.541	453.350
63.5	457.841	451.637	448.505	447.855	444.546
64.0	451.578	442.714	439.877	438.578	434.796
64.5	441.827	433.200	430.127	428.946	425.400
65.0	430.896	423.036	420.495	419.373	415.945
65.5	419.727	412.755	410.450	409.918	406.432
66.0	408.973	402.709	400.641	400.404	396.682
66.5	398.336	392.427	390.654	390.654	387.345
67.0	387.818	382.204	380.786	380.963	377.950
67.5	377.477	372.159	370.859	371.213	368.259
68.0	367.018	362.113	360.931	361.404	358.331
68.5	356.499	351.890	350.945	351.595	348.581
69.0	345.626	341.608	340.899	341.254	338.476
69.5	335.049	331.504	330.676	331.090	328.549
70.0	324.590	321.281	320.690	320.867	318.622
70.5	314.308	310.999	310.585	310.762	308.635
71.0	303.790	300.776	300.658	300.894	298.590
71.5	293.271	290.553	290.789	290.967	288.958
72.0	283.049	280.271	280.744	280.980	279.267
72.5	272.826	270.167	270.935	271.171	269.753
73.0	262.721	260.298	261.362	261.657	260.416
73.5	252.912	250.548	251.789	252.321	250.962
74.0	243.221	240.798	242.334	242.748	241.862
74.5	233.530	231.225	232.939	233.353	232.702
75.0	223.780	221.712	223.662	224.075	223.543
75.5	214.148	212.198	214.443	214.975	214.384
76.0	204.398	203.039	205.343	205.934	205.461
76.5	195.179	193.998	196.302	196.952	196.539
77.0	186.197	184.897	187.438	188.029	187.379
77.5	176.920	176.034	178.575	179.047	178.397
78.0	167.879	167.170	169.711	170.420	169.770
78.5	158.897	158.543	160.965	161.793	161.261
79.0	150.270	149.915	152.397	153.402	152.988
79.5	141.642	141.465	143.947	145.011	144.656
80.0	133.133	133.192	135.497	136.974	136.501
80.5	124.565	125.097	127.460	128.879	128.524
81.0	116.351	117.179	119.483	120.960	120.724
81.5	108.433	109.319	111.683	113.160	112.983
82.0	101.047	101.637	104.060	105.597	105.419
82.5	93.660	94.192	96.556	98.092	97.974

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83.0	86.274	87.101	89.169	90.765	90.883
83.5	79.005	80.010	82.019	83.555	83.910
84.0	72.210	73.037	74.928	76.405	76.937
84.5	65.296	66.183	67.955	69.433	69.964
85.0	58.855	59.564	61.219	62.519	62.992
85.5	52.591	52.946	54.364	55.723	56.196
86.0	46.446	46.564	47.805	49.046	49.637
86.5	40.360	40.360	41.482	42.605	43.137
87.0	34.214	34.214	35.041	36.459	36.873
87.5	28.128	28.187	28.955	30.373	30.905
88.0	22.337	22.278	23.046	24.582	25.173
88.5	16.782	16.427	17.432	18.791	19.618
89.0	10.873	10.696	12.055	13.355	14.241
89.5	5.023	5.968	7.209	8.214	8.509
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.647	1.922	1.774	1.725	1.873
91.0	8.034	4.239	3.450	3.401	3.352
91.5	12.913	8.625	5.126	5.077	5.027
92.0	17.842	14.343	7.393	6.605	6.605
92.5	22.968	20.257	11.435	8.280	8.132
93.0	28.291	25.925	16.166	10.991	9.907
93.5	33.663	31.347	21.243	14.836	12.913
94.0	38.937	36.670	26.862	19.419	17.004
94.5	44.359	41.993	32.727	24.151	21.440
95.0	49.682	47.464	38.494	28.981	25.827
95.5	55.005	52.590	44.112	33.959	30.460
96.0	60.082	57.814	49.633	39.134	35.191
96.5	65.208	63.039	55.153	44.408	40.071
97.0	70.186	68.165	60.624	49.682	45.246
97.5	75.312	73.340	66.144	55.054	50.421
98.0	80.388	78.417	71.516	60.377	55.646
98.5	85.465	83.543	76.692	65.799	60.870
99.0	90.640	88.816	81.965	70.974	66.144
99.5	95.865	94.041	87.289	76.149	71.319
100.0	100.990	99.315	92.612	81.473	76.396
100.5	106.314	104.588	97.935	86.993	81.522
101.0	111.784	109.862	103.356	92.562	87.091
101.5	117.354	115.235	108.877	98.132	92.858
102.0	122.776	120.804	114.397	103.701	98.575
102.5	128.444	126.324	120.114	109.271	104.243
103.0	134.260	132.042	125.782	114.791	110.010
103.5	140.076	137.858	131.795	120.706	115.728
104.0	146.039	143.723	137.907	126.817	121.691
104.5	152.200	149.835	144.019	133.077	127.655
105.0	158.509	156.094	150.081	139.238	133.718
105.5	164.966	162.452	156.341	145.448	139.731
106.0	171.521	168.860	162.699	151.757	145.744
106.5	178.126	175.464	169.353	158.115	151.806
107.0	185.174	182.364	176.450	164.867	158.411
107.5	192.468	189.462	183.646	172.014	165.557
108.0	199.714	196.756	190.990	179.752	172.901
108.5	207.353	204.199	198.334	187.490	180.492
109.0	215.190	211.789	205.875	195.327	188.180
109.5	223.224	219.675	213.810	203.115	195.968
110.0	231.800	227.758	221.943	211.099	204.100
110.5	240.573	236.039	230.272	219.675	212.529

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111.0	249.445	244.713	238.897	228.596	221.006
111.5	258.514	253.634	247.671	237.665	229.730
112.0	267.928	262.802	256.395	246.734	238.060
112.5	277.391	272.216	265.217	255.754	246.882
113.0	287.298	281.926	274.532	265.069	256.099
113.5	297.501	292.079	284.390	275.124	266.006
114.0	307.851	302.429	294.839	285.819	276.997
114.5	318.546	313.125	305.485	296.958	288.678
115.0	329.390	324.116	316.526	308.196	300.507
115.5	340.726	335.206	327.862	319.384	312.188
116.0	352.161	346.739	339.592	331.164	324.067
116.5	364.236	358.568	351.717	343.240	336.734
117.0	376.804	370.643	363.940	356.251	349.795
117.5	386.071	380.057	375.129	368.228	363.053
118.0	397.900	391.049	386.613	380.600	374.833
118.5	411.651	404.159	398.343	392.084	385.430
119.0	425.106	417.072	411.651	405.096	397.210
119.5	438.710	430.824	425.747	418.305	410.419
120.0	452.757	445.068	439.893	432.746	424.367
120.5	466.705	459.509	454.482	448.074	439.252
121.0	481.344	474.246	469.170	463.354	455.073
121.5	495.834	488.835	483.808	478.830	470.550
122.0	511.113	503.720	499.284	494.356	486.075
122.5	525.900	518.507	514.564	509.635	500.763
123.0	541.179	534.279	530.336	526.393	517.028
123.5	556.951	550.051	547.093	543.150	533.786
124.0	572.723	566.316	563.358	559.908	551.036
124.5	588.495	582.088	579.623	576.173	567.794
125.0	604.267	597.860	595.395	592.438	584.059
125.5	620.532	614.125	611.660	608.703	599.831
126.0	636.304	629.897	628.418	624.968	615.603
126.5	652.076	645.669	645.176	642.219	632.361
127.0	668.341	661.934	661.934	659.469	650.105
127.5	684.606	677.706	677.706	676.227	667.848
128.0	700.378	693.478	693.971	692.985	684.606
128.5	716.150	708.757	709.743	709.743	700.871
129.0	731.922	724.036	725.515	726.008	717.629
129.5	747.694	739.808	741.780	742.766	734.880
130.0	763.466	755.580	758.045	759.523	753.116
130.5	779.238	770.860	774.803	775.788	770.367
131.0	795.011	786.139	790.575	791.560	786.139
131.5	809.797	800.925	806.347	806.347	801.418
132.0	825.076	815.711	821.626	822.119	816.204
132.5	839.862	830.991	836.905	837.398	830.991
133.0	854.649	846.270	851.691	852.677	845.284
133.5	869.435	861.056	866.971	867.956	860.563
134.0	884.221	875.350	881.264	882.743	875.350
134.5	897.529	889.643	895.065	896.050	889.643
135.0	910.837	903.443	908.372	909.358	902.458
135.5	923.651	917.737	921.680	922.173	915.273
136.0	936.466	931.045	934.002	935.481	928.580
136.5	949.774	943.859	946.324	948.788	942.381
137.0	962.096	956.674	959.139	961.110	955.196
137.5	974.418	968.503	970.968	972.446	966.532
138.0	986.247	980.332	982.304	983.290	977.375
138.5	998.076	991.668	993.640	994.133	987.725

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-940U-L12-940D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1009.412	1003.005	1004.976	1004.976	998.076
139.5	1020.748	1014.341	1015.819	1015.327	1007.933
140.0	1031.592	1024.691	1026.663	1026.170	1018.777
140.5	1041.942	1034.549	1036.520	1036.027	1028.141
141.0	1052.292	1044.899	1046.378	1045.392	1037.506
141.5	1061.657	1054.264	1056.235	1054.757	1045.885
142.0	1071.515	1064.121	1065.600	1063.629	1054.757
142.5	1080.879	1073.486	1074.965	1072.993	1063.136
143.0	1090.244	1082.358	1083.836	1081.865	1072.007
143.5	1099.116	1091.723	1092.708	1090.737	1080.386
144.0	1107.495	1100.594	1101.087	1098.623	1088.272
144.5	1115.873	1108.973	1109.466	1106.509	1096.158
145.0	1123.760	1117.352	1117.352	1113.902	1103.552
145.5	1132.138	1125.731	1125.238	1122.281	1111.438
146.0	1140.024	1133.617	1133.124	1129.674	1119.324
146.5	1147.910	1141.503	1140.517	1137.560	1127.210
147.0	1155.304	1149.389	1147.418	1145.446	1135.096
147.5	1162.697	1156.782	1154.811	1152.839	1142.489
148.0	1170.090	1164.175	1161.218	1159.740	1150.375
148.5	1177.483	1171.569	1167.626	1166.640	1158.261
149.0	1184.383	1178.962	1174.033	1173.540	1166.147
149.5	1191.284	1185.862	1179.947	1180.440	1173.540
150.0	1198.184	1192.762	1186.355	1186.848	1180.440
150.5	1205.084	1199.663	1192.269	1192.762	1187.341
151.0	1211.492	1206.070	1198.184	1198.677	1193.748
151.5	1218.392	1212.477	1204.591	1204.591	1199.663
152.0	1224.799	1218.885	1210.506	1210.013	1205.577
152.5	1231.207	1224.799	1216.420	1215.927	1210.999
153.0	1237.614	1230.714	1222.335	1221.842	1215.927
153.5	1243.529	1236.628	1228.249	1227.757	1220.363
154.0	1249.443	1242.543	1234.657	1233.671	1225.292
154.5	1255.851	1247.965	1240.571	1239.093	1230.221
155.0	1261.765	1253.386	1246.486	1245.007	1235.643
155.5	1267.187	1258.315	1252.400	1250.922	1241.064
156.0	1272.608	1263.737	1258.808	1256.343	1246.486
156.5	1278.030	1269.158	1264.722	1262.258	1251.908
157.0	1283.452	1274.580	1270.637	1268.172	1257.329
157.5	1288.380	1279.509	1276.058	1273.594	1262.751
158.0	1293.309	1284.437	1281.480	1279.016	1268.172
158.5	1298.731	1289.859	1286.902	1284.437	1274.087
159.0	1303.167	1294.788	1291.831	1289.859	1279.509
159.5	1308.095	1299.717	1296.759	1295.281	1284.930
160.0	1312.531	1304.152	1301.688	1300.209	1290.352
160.5	1316.967	1308.588	1306.124	1305.138	1295.774
161.0	1321.403	1313.024	1310.560	1310.067	1301.195
161.5	1325.839	1317.953	1314.503	1314.996	1306.617
162.0	1330.768	1322.389	1318.446	1319.925	1311.546
162.5	1335.204	1326.825	1322.389	1324.360	1315.982
163.0	1339.640	1331.261	1326.332	1328.796	1320.417
163.5	1344.076	1335.204	1330.275	1333.232	1324.360
164.0	1348.511	1339.147	1333.725	1337.175	1328.303
164.5	1351.962	1343.090	1337.175	1341.118	1332.246
165.0	1355.905	1347.033	1340.625	1345.061	1335.697
165.5	1359.848	1350.483	1344.076	1348.511	1339.147
166.0	1363.791	1353.933	1347.526	1351.962	1342.104
166.5	1367.734	1357.383	1350.976	1354.919	1345.554

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-940U-L12-940D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1371.184	1360.340	1353.933	1357.876	1348.511
167.5	1374.634	1363.298	1357.383	1360.833	1351.962
168.0	1378.084	1366.255	1360.340	1363.791	1354.919
168.5	1381.534	1369.212	1363.298	1366.748	1358.369
169.0	1384.491	1371.677	1366.255	1369.212	1361.326
169.5	1386.956	1374.141	1368.719	1371.677	1364.283
170.0	1389.420	1376.605	1371.184	1374.141	1367.734
170.5	1391.885	1379.070	1373.155	1376.605	1370.198
171.0	1394.349	1381.041	1375.127	1379.070	1372.662
171.5	1396.320	1383.013	1377.098	1381.534	1375.127
172.0	1398.292	1384.984	1378.577	1383.506	1377.098
172.5	1400.263	1386.956	1380.056	1384.984	1378.577
173.0	1402.235	1388.927	1381.534	1386.956	1379.563
173.5	1403.714	1390.406	1383.013	1387.942	1380.548
174.0	1405.192	1391.885	1384.491	1388.927	1381.041
174.5	1406.178	1392.870	1385.477	1389.913	1381.534
175.0	1407.164	1394.349	1386.463	1390.406	1381.534
175.5	1408.150	1395.335	1387.942	1390.899	1382.027
176.0	1409.135	1396.320	1388.927	1390.899	1382.027
176.5	1409.628	1397.306	1389.420	1391.392	1382.027
177.0	1410.121	1398.292	1390.406	1391.392	1381.534
177.5	1411.107	1399.278	1391.392	1391.392	1381.534
178.0	1411.600	1399.278	1391.885	1391.392	1382.027
178.5	1411.600	1399.771	1392.377	1391.392	1382.027
179.0	1412.093	1400.263	1392.377	1391.392	1382.027
179.5	1412.585	1400.263	1392.870	1391.392	1382.027
180.0	1395.335	1395.335	1395.335	1395.335	1395.335



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-940U-L12-940D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	509.13	N.A.	7.10
0-30	1064.41	N.A.	14.90
0-40	1709.99	N.A.	23.90
0-60	2905.66	N.A.	40.60
0-80	3558.31	N.A.	49.70
0-90	3627.27	N.A.	50.70
10-90	3494.38	N.A.	48.80
20-40	1200.86	N.A.	16.80
20-50	1841.73	N.A.	25.70
40-70	1611.2	N.A.	22.50
60-80	652.65	N.A.	9.10
70-80	237.11	N.A.	3.30
80-90	68.96	N.A.	1.00
90-110	201.93	N.A.	2.80
90-120	518.37	N.A.	7.20
90-130	1050.13	N.A.	14.70
90-150	2442.53	N.A.	34.10
90-180	3530.1	N.A.	49.30
110-180	3328.17	N.A.	46.50
0-180	7157.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.89
10-20	376.24
20-30	555.28
30-40	645.58
40-50	640.87
50-60	554.80
60-70	415.53
70-80	237.11
80-90	68.96
90-100	43.55
100-110	158.38
110-120	316.44
120-130	531.76
130-140	695.33
140-150	697.07
150-160	575.81
160-170	379.44
170-180	132.32

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-940U-L12-940D-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-L8-940U-L12-940D-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	15.7	16.6	16.7	17.6	18.8	15.6	16.5	16.6	17.5	18.7
	3H	17.5	18.3	18.4	19.2	20.5	17.4	18.2	18.3	19.1	20.4
	4H	18.1	18.8	19.1	19.8	21.1	18.0	18.8	19.0	19.7	21.0
	6H	18.5	19.2	19.5	20.2	21.5	18.5	19.2	19.5	20.1	21.4
	8H	18.7	19.3	19.6	20.3	21.6	18.6	19.3	19.6	20.3	21.6
	12H	18.7	19.4	19.7	20.3	21.7	18.7	19.3	19.7	20.3	21.7

### UGR Viewed Endwise

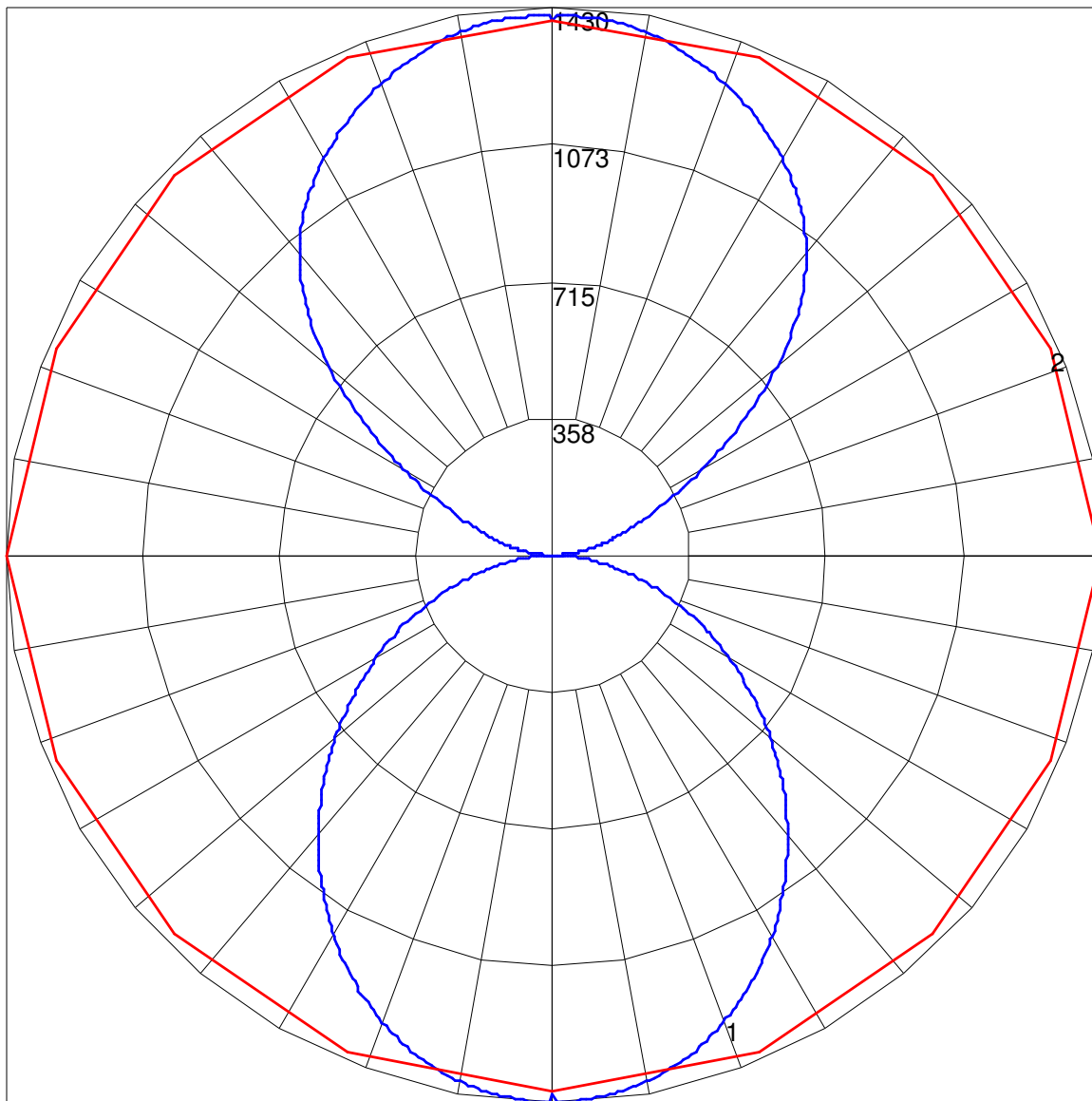
4H	2H	16.3	17.0	17.2	18.0	19.3	16.2	16.9	17.1	17.9	19.2
	3H	18.2	18.8	19.2	19.8	21.1	18.1	18.8	19.1	19.8	21.1
	4H	19.0	19.5	19.9	20.5	21.8	18.9	19.5	19.9	20.5	21.8
	6H	19.5	20.0	20.5	21.0	22.3	19.5	20.0	20.5	21.0	22.3
	8H	19.7	20.1	20.7	21.2	22.5	19.7	20.1	20.7	21.2	22.5
	12H	19.8	20.2	20.8	21.2	22.6	19.8	20.2	20.9	21.3	22.6

8H	4H	19.2	19.7	20.2	20.7	22.0	19.2	19.6	20.2	20.6	22.0
	6H	19.9	20.3	20.9	21.3	22.7	19.9	20.3	20.9	21.3	22.6
	8H	20.2	20.5	21.2	21.5	22.9	20.2	20.5	21.2	21.5	22.9
	12H	20.3	20.6	21.4	21.7	23.1	20.4	20.7	21.4	21.7	23.1

12H	4H	19.2	19.6	20.2	20.6	22.0	19.1	19.6	20.2	20.6	21.9
	6H	19.9	20.3	21.0	21.3	22.7	19.9	20.3	21.0	21.3	22.7
	8H	20.2	20.5	21.3	21.6	23.0	20.2	20.5	21.3	21.6	23.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1430.015 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.)