

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L8-840D-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-L8-840D-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	6865
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	54.2
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	9313	9080	8976
55	8561	8353	8265
65	7896	7705	7622
75	6696	6692	6689
85	5229	5439	5597

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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	1351.273	1351.273	1351.273	1351.273	1351.273
0.5	1371.678	1352.406	1345.605	1348.439	1343.904
1.0	1371.678	1351.839	1345.605	1348.439	1343.904
1.5	1371.111	1351.273	1345.038	1348.439	1343.337
2.0	1370.544	1350.706	1344.471	1347.872	1343.337
2.5	1369.977	1350.139	1343.337	1347.305	1342.770
3.0	1368.844	1349.005	1342.770	1346.738	1341.637
3.5	1367.710	1347.872	1341.637	1345.605	1340.503
4.0	1366.576	1346.738	1340.503	1344.471	1339.370
4.5	1365.443	1345.038	1339.370	1343.337	1337.669
5.0	1364.309	1343.904	1337.669	1341.637	1335.969
5.5	1362.609	1342.204	1335.969	1339.936	1334.268
6.0	1360.908	1339.936	1334.268	1338.236	1332.001
6.5	1358.641	1338.236	1332.001	1335.969	1330.301
7.0	1356.941	1335.969	1330.301	1333.702	1328.033
7.5	1355.240	1333.702	1328.033	1331.434	1326.333
8.0	1352.406	1331.434	1325.199	1329.167	1324.066
8.5	1350.139	1328.600	1322.365	1326.333	1321.232
9.0	1347.305	1326.333	1320.098	1323.499	1318.398
9.5	1344.471	1323.499	1316.697	1320.098	1315.564
10.0	1341.637	1320.665	1313.863	1317.264	1312.163
10.5	1338.236	1317.264	1310.462	1313.863	1309.329
11.0	1335.402	1313.863	1307.062	1310.462	1305.361
11.5	1331.434	1310.462	1303.661	1307.062	1301.960
12.0	1328.033	1307.062	1300.260	1303.094	1297.993
12.5	1324.633	1303.094	1296.292	1299.126	1294.025
13.0	1320.665	1299.693	1292.324	1295.159	1290.057
13.5	1316.697	1295.159	1288.357	1290.624	1286.090
14.0	1312.730	1291.191	1283.822	1286.656	1282.122
14.5	1308.762	1287.223	1279.288	1282.122	1277.587
15.0	1304.794	1282.689	1274.753	1277.587	1273.053
15.5	1299.693	1278.721	1270.219	1272.486	1267.952
16.0	1294.025	1274.187	1265.118	1267.952	1263.417
16.5	1288.357	1269.085	1260.016	1262.850	1258.316
17.0	1283.256	1263.984	1254.915	1257.749	1253.215
17.5	1277.587	1258.316	1249.247	1252.081	1247.547
18.0	1271.919	1252.648	1243.579	1246.413	1241.878
18.5	1266.251	1246.980	1237.911	1240.178	1236.210
19.0	1260.583	1241.312	1232.810	1234.510	1229.409
19.5	1254.348	1235.644	1227.141	1227.708	1222.607
20.0	1248.680	1229.409	1222.040	1221.473	1215.805
20.5	1242.445	1223.741	1216.372	1214.672	1209.004
21.0	1236.210	1217.506	1210.137	1207.870	1201.635
21.5	1229.409	1211.271	1203.335	1201.068	1194.267
22.0	1223.174	1204.469	1195.967	1193.700	1187.465
22.5	1216.372	1197.667	1189.165	1186.331	1180.096
23.0	1209.570	1190.866	1182.364	1178.396	1172.728
23.5	1202.769	1184.064	1174.995	1171.027	1165.926
24.0	1195.400	1177.262	1168.193	1163.659	1158.558
24.5	1188.032	1169.894	1160.825	1156.290	1151.189
25.0	1181.230	1162.525	1153.456	1148.922	1143.821
25.5	1173.861	1155.157	1145.521	1141.553	1135.885
26.0	1165.926	1147.221	1138.152	1134.185	1128.517
26.5	1158.558	1139.853	1130.217	1126.816	1121.148

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**CANDELA TABULATION - (Cont.)**

27.0	1150.622	1131.918	1122.282	1119.448	1113.213
27.5	1142.687	1123.982	1114.913	1112.079	1105.844
28.0	1134.752	1115.480	1106.411	1104.144	1097.909
28.5	1126.249	1106.978	1098.476	1096.775	1089.974
29.0	1117.747	1099.043	1090.540	1088.840	1082.038
29.5	1109.812	1090.540	1082.605	1080.338	1074.670
30.0	1101.310	1082.038	1074.670	1072.403	1066.735
30.5	1092.808	1073.536	1066.168	1064.467	1058.799
31.0	1083.739	1065.601	1057.666	1055.965	1050.864
31.5	1075.237	1057.099	1049.163	1047.463	1042.362
32.0	1066.168	1048.030	1040.661	1038.394	1033.860
32.5	1057.099	1039.528	1032.159	1029.892	1024.791
33.0	1048.030	1031.026	1023.657	1021.390	1015.722
33.5	1039.528	1021.957	1014.588	1012.321	1007.220
34.0	1029.892	1012.888	1006.086	1003.252	998.151
34.5	1020.823	1003.819	996.450	994.183	988.515
35.0	1011.754	995.317	987.381	985.114	978.879
35.5	1002.118	985.681	978.312	976.045	969.243
36.0	992.483	976.612	969.243	966.409	960.174
36.5	983.414	967.543	960.174	957.340	951.105
37.0	973.778	957.907	950.539	947.705	941.470
37.5	964.142	948.271	941.470	938.069	932.401
38.0	953.940	938.636	931.834	928.433	922.765
38.5	944.304	929.000	922.198	919.364	913.129
39.0	935.235	919.364	912.562	909.728	904.060
39.5	925.032	909.728	903.494	900.093	893.858
40.0	915.397	899.526	893.858	890.457	884.789
40.5	905.194	889.890	884.222	880.821	875.153
41.0	895.558	879.688	874.586	870.619	864.951
41.5	885.356	870.052	864.384	860.983	854.748
42.0	875.720	859.849	854.748	851.347	845.112
42.5	866.084	850.213	845.112	841.145	835.476
43.0	855.882	840.578	835.476	831.509	825.274
43.5	846.246	830.375	825.274	821.873	815.638
44.0	836.043	820.173	815.071	811.670	806.002
44.5	825.841	809.970	804.869	801.468	795.800
45.0	815.638	800.334	795.233	791.265	786.164
45.5	806.002	790.132	785.030	781.630	776.528
46.0	795.800	779.929	774.828	771.427	766.893
46.5	785.597	769.727	765.192	761.791	757.257
47.0	775.395	759.524	754.990	751.589	747.054
47.5	764.625	749.321	744.787	741.386	737.418
48.0	754.423	739.119	734.584	731.750	727.216
48.5	744.220	728.916	724.949	721.548	717.013
49.0	733.451	718.714	714.746	711.345	707.378
49.5	723.248	708.511	704.544	701.710	697.742
50.0	712.479	698.309	694.341	691.507	687.539
50.5	701.710	688.106	684.138	681.304	677.904
51.0	690.940	677.904	673.936	671.102	667.701
51.5	680.738	667.701	663.733	661.466	657.498
52.0	670.535	657.498	653.531	651.264	647.863
52.5	659.766	647.296	643.328	641.628	637.660
53.0	649.563	637.093	633.126	631.425	627.458
53.5	638.794	626.891	622.923	621.223	617.255
54.0	628.591	616.688	613.287	611.587	607.052
54.5	618.389	607.052	603.085	601.384	596.850

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**CANDELA TABULATION - (Cont.)**

55.0	608.186	597.417	593.449	591.749	587.214
55.5	598.550	587.214	583.246	581.546	577.578
56.0	587.781	577.012	573.044	571.910	567.376
56.5	577.578	567.376	563.125	561.878	557.400
57.0	567.943	557.173	553.092	551.732	547.481
57.5	557.967	547.311	543.116	541.869	537.448
58.0	547.991	537.562	533.084	531.950	527.529
58.5	537.958	527.756	523.221	522.201	518.007
59.0	528.096	517.893	513.302	512.339	508.314
59.5	518.517	507.917	503.213	502.533	498.735
60.0	508.711	497.998	493.237	492.670	488.986
60.5	499.019	488.306	483.601	482.751	479.124
61.0	489.496	478.613	474.022	473.059	469.488
61.5	479.294	469.034	464.500	463.423	459.966
62.0	469.261	459.172	454.637	453.844	450.216
62.5	459.002	450.046	445.342	444.718	440.977
63.0	449.139	441.998	438.200	437.917	434.856
63.5	439.164	433.212	430.208	429.585	426.410
64.0	433.155	424.653	421.933	420.686	417.058
64.5	423.803	415.528	412.580	411.447	408.046
65.0	413.317	405.779	403.341	402.264	398.977
65.5	402.604	395.916	393.706	393.195	389.851
66.0	392.288	386.280	384.296	384.070	380.499
66.5	382.086	376.418	374.717	374.717	371.543
67.0	371.997	366.612	365.252	365.422	362.531
67.5	362.078	356.976	355.729	356.069	353.235
68.0	352.045	347.341	346.207	346.660	343.713
68.5	341.956	337.535	336.628	337.251	334.361
69.0	331.527	327.672	326.992	327.332	324.668
69.5	321.381	317.980	317.186	317.583	315.146
70.0	311.348	308.174	307.607	307.777	305.623
70.5	301.486	298.312	297.915	298.085	296.044
71.0	291.396	288.506	288.392	288.619	286.409
71.5	281.307	278.700	278.927	279.097	277.170
72.0	271.502	268.838	269.291	269.518	267.874
72.5	261.696	259.145	259.882	260.109	258.748
73.0	252.003	249.679	250.700	250.983	249.793
73.5	242.594	240.327	241.517	242.027	240.724
74.0	233.299	230.975	232.448	232.845	231.995
74.5	224.003	221.792	223.436	223.833	223.209
75.0	214.651	212.667	214.537	214.934	214.424
75.5	205.412	203.541	205.695	206.205	205.638
76.0	196.059	194.756	196.966	197.533	197.079
76.5	187.217	186.083	188.294	188.917	188.521
77.0	178.601	177.355	179.792	180.359	179.735
77.5	169.703	168.852	171.290	171.743	171.120
78.0	161.030	160.350	162.788	163.468	162.844
78.5	152.415	152.075	154.399	155.192	154.682
79.0	144.140	143.799	146.180	147.144	146.747
79.5	135.864	135.694	138.075	139.095	138.755
80.0	127.702	127.759	129.969	131.386	130.933
80.5	119.483	119.993	122.261	123.621	123.281
81.0	111.605	112.398	114.609	116.026	115.799
81.5	104.010	104.860	107.127	108.544	108.374
82.0	96.924	97.491	99.815	101.289	101.119
82.5	89.839	90.349	92.617	94.090	93.977

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**CANDELA TABULATION - (Cont.)**

83.0	82.754	83.548	85.532	87.062	87.175
83.5	75.782	76.746	78.673	80.147	80.487
84.0	69.264	70.058	71.871	73.288	73.799
84.5	62.632	63.483	65.183	66.600	67.110
85.0	56.454	57.134	58.721	59.968	60.422
85.5	50.446	50.786	52.146	53.450	53.904
86.0	44.551	44.665	45.855	47.045	47.612
86.5	38.713	38.713	39.790	40.867	41.377
87.0	32.818	32.818	33.612	34.972	35.369
87.5	26.980	27.037	27.774	29.134	29.644
88.0	21.425	21.369	22.106	23.579	24.146
88.5	16.097	15.757	16.721	18.024	18.818
89.0	10.429	10.259	11.563	12.810	13.660
89.5	4.818	5.725	6.915	7.879	8.162
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.498	1.844	1.702	1.655	1.797
91.0	7.706	4.066	3.309	3.262	3.215
91.5	12.387	8.273	4.917	4.870	4.822
92.0	17.114	13.758	7.092	6.335	6.335
92.5	22.031	19.431	10.968	7.943	7.801
93.0	27.137	24.868	15.507	10.543	9.503
93.5	32.290	30.068	20.376	14.230	12.387
94.0	37.349	35.174	25.766	18.627	16.311
94.5	42.549	40.280	31.392	23.166	20.565
95.0	47.655	45.528	36.923	27.799	24.773
95.5	52.761	50.445	42.313	32.574	29.217
96.0	57.631	55.456	47.608	37.538	33.756
96.5	62.547	60.467	52.903	42.597	38.436
97.0	67.322	65.384	58.151	47.655	43.400
97.5	72.239	70.348	63.446	52.808	48.364
98.0	77.109	75.218	68.599	57.914	53.376
98.5	81.978	80.135	73.563	63.115	58.387
99.0	86.942	85.193	78.622	68.079	63.446
99.5	91.954	90.205	83.728	73.043	68.410
100.0	96.871	95.263	88.833	78.149	73.279
100.5	101.976	100.322	93.939	83.444	78.196
101.0	107.224	105.380	99.140	88.786	83.538
101.5	112.567	110.534	104.435	94.129	89.070
102.0	117.767	115.876	109.730	99.471	94.554
102.5	123.204	121.171	115.214	104.813	99.991
103.0	128.783	126.655	120.651	110.108	105.522
103.5	134.361	132.234	126.419	115.781	111.006
104.0	140.082	137.860	132.281	121.644	116.727
104.5	145.991	143.722	138.143	127.648	122.447
105.0	152.043	149.726	143.958	133.558	128.262
105.5	158.236	155.825	149.963	139.514	134.030
106.0	164.524	161.971	156.061	145.566	139.798
106.5	170.859	168.306	162.444	151.665	145.613
107.0	177.620	174.925	169.252	158.142	151.948
107.5	184.617	181.733	176.154	164.997	158.803
108.0	191.566	188.730	183.198	172.419	165.848
108.5	198.894	195.869	190.243	179.842	173.128
109.0	206.411	203.149	197.476	187.359	180.504
109.5	214.118	210.714	205.088	194.829	187.973
110.0	222.344	218.467	212.888	202.487	195.774
110.5	230.759	226.410	220.878	210.714	203.858

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**CANDELA TABULATION - (Cont.)**

111.0	239.269	234.730	229.152	219.271	211.990
111.5	247.968	243.287	237.567	227.970	220.358
112.0	256.998	252.081	245.935	236.669	228.348
112.5	266.075	261.111	254.398	245.320	236.810
113.0	275.578	270.424	263.333	254.256	245.651
113.5	285.364	280.163	272.788	263.900	255.154
114.0	295.292	290.092	282.811	274.159	265.697
114.5	305.551	300.351	293.023	284.844	276.901
115.0	315.952	310.894	303.613	295.623	288.248
115.5	326.826	321.531	314.487	306.355	299.453
116.0	337.794	332.594	325.739	317.654	310.846
116.5	349.377	343.940	337.369	329.237	322.996
117.0	361.433	355.523	349.093	341.718	335.525
117.5	370.321	364.553	359.825	353.206	348.242
118.0	381.667	375.096	370.841	365.073	359.542
118.5	394.857	387.671	382.093	376.089	369.706
119.0	407.764	400.058	394.857	388.570	381.005
119.5	420.813	413.248	408.379	401.240	393.676
120.0	434.287	426.911	421.947	415.092	407.055
120.5	447.666	440.763	435.941	429.795	421.333
121.0	461.707	454.899	450.030	444.451	436.509
121.5	475.607	468.893	464.071	459.296	451.354
122.0	490.262	483.171	478.916	474.188	466.246
122.5	504.446	497.354	493.572	488.844	480.334
123.0	519.101	512.483	508.701	504.918	495.936
123.5	534.230	527.611	524.775	520.993	512.010
124.0	549.359	543.213	540.376	537.067	528.557
124.5	564.487	558.341	555.978	552.668	544.631
125.0	579.616	573.470	571.106	568.270	560.232
125.5	595.217	589.071	586.708	583.871	575.361
126.0	610.346	604.200	602.782	599.472	590.490
126.5	625.475	619.329	618.856	616.019	606.564
127.0	641.076	634.930	634.930	632.566	623.584
127.5	656.678	650.059	650.059	648.640	640.603
128.0	671.806	665.187	665.660	664.715	656.678
128.5	686.935	679.843	680.789	680.789	672.279
129.0	702.063	694.499	695.917	696.390	688.353
129.5	717.192	709.628	711.519	712.464	704.900
130.0	732.321	724.756	727.120	728.539	722.393
130.5	747.449	739.412	743.194	744.140	738.939
131.0	762.578	754.068	758.323	759.269	754.068
131.5	776.761	768.251	773.452	773.452	768.724
132.0	791.417	782.434	788.108	788.580	782.907
132.5	805.600	797.090	802.763	803.236	797.090
133.0	819.783	811.746	816.947	817.892	810.801
133.5	833.966	825.929	831.602	832.548	825.456
134.0	848.149	839.639	845.313	846.731	839.639
134.5	860.914	853.350	858.550	859.496	853.350
135.0	873.679	866.587	871.315	872.261	865.642
135.5	885.971	880.298	884.080	884.553	877.934
136.0	898.263	893.063	895.899	897.317	890.699
136.5	911.028	905.355	907.718	910.082	903.936
137.0	922.847	917.647	920.010	921.901	916.228
137.5	934.666	928.993	931.357	932.775	927.102
138.0	946.013	940.340	942.231	943.176	937.503
138.5	957.359	951.213	953.104	953.577	947.431

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L8-840D-F-F-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

139.0	968.233	962.087	963.978	963.978	957.359
139.5	979.107	972.961	974.379	973.906	966.815
140.0	989.508	982.889	984.780	984.307	977.216
140.5	999.436	992.344	994.235	993.763	986.198
141.0	1009.364	1002.272	1003.691	1002.745	995.181
141.5	1018.347	1011.255	1013.146	1011.728	1003.218
142.0	1027.802	1020.710	1022.129	1020.238	1011.728
142.5	1036.785	1029.693	1031.111	1029.220	1019.765
143.0	1045.767	1038.203	1039.621	1037.730	1028.275
143.5	1054.277	1047.186	1048.131	1046.240	1036.312
144.0	1062.314	1055.695	1056.168	1053.804	1043.876
144.5	1070.351	1063.732	1064.205	1061.369	1051.440
145.0	1077.916	1071.770	1071.770	1068.460	1058.532
145.5	1085.953	1079.807	1079.334	1076.497	1066.096
146.0	1093.517	1087.371	1086.898	1083.589	1073.661
146.5	1101.081	1094.935	1093.990	1091.153	1081.225
147.0	1108.173	1102.500	1100.609	1098.717	1088.789
147.5	1115.264	1109.591	1107.700	1105.809	1095.881
148.0	1122.356	1116.683	1113.846	1112.428	1103.445
148.5	1129.447	1123.774	1119.992	1119.047	1111.009
149.0	1136.066	1130.866	1126.138	1125.665	1118.574
149.5	1142.685	1137.485	1131.811	1132.284	1125.665
150.0	1149.304	1144.103	1137.957	1138.430	1132.284
150.5	1155.923	1150.722	1143.631	1144.103	1138.903
151.0	1162.069	1156.868	1149.304	1149.777	1145.049
151.5	1168.687	1163.014	1155.450	1155.450	1150.722
152.0	1174.833	1169.160	1161.123	1160.650	1156.395
152.5	1180.979	1174.833	1166.796	1166.324	1161.596
153.0	1187.125	1180.507	1172.470	1171.997	1166.324
153.5	1192.799	1186.180	1178.143	1177.670	1170.578
154.0	1198.472	1191.853	1184.289	1183.343	1175.306
154.5	1204.618	1197.054	1189.962	1188.544	1180.034
155.0	1210.291	1202.254	1195.635	1194.217	1185.234
155.5	1215.492	1206.982	1201.309	1199.890	1190.435
156.0	1220.692	1212.182	1207.455	1205.091	1195.635
156.5	1225.893	1217.383	1213.128	1210.764	1200.836
157.0	1231.093	1222.583	1218.801	1216.437	1206.036
157.5	1235.821	1227.311	1224.001	1221.638	1211.237
158.0	1240.548	1232.039	1229.202	1226.838	1216.437
158.5	1245.749	1237.239	1234.402	1232.039	1222.110
159.0	1250.004	1241.967	1239.130	1237.239	1227.311
159.5	1254.732	1246.694	1243.858	1242.440	1232.511
160.0	1258.986	1250.949	1248.586	1247.167	1237.712
160.5	1263.241	1255.204	1252.840	1251.895	1242.912
161.0	1267.496	1259.459	1257.095	1256.623	1248.113
161.5	1271.751	1264.187	1260.878	1261.350	1253.313
162.0	1276.479	1268.442	1264.660	1266.078	1258.041
162.5	1280.734	1272.697	1268.442	1270.333	1262.296
163.0	1284.989	1276.952	1272.224	1274.588	1266.551
163.5	1289.244	1280.734	1276.006	1278.843	1270.333
164.0	1293.499	1284.516	1279.316	1282.625	1274.115
164.5	1296.808	1288.298	1282.625	1286.407	1277.897
165.0	1300.590	1292.080	1285.934	1290.189	1281.207
165.5	1304.372	1295.390	1289.244	1293.499	1284.516
166.0	1308.155	1298.699	1292.553	1296.808	1287.353
166.5	1311.937	1302.009	1295.863	1299.645	1290.662

CANDELA TABULATION - (Cont.)

167.0	1315.246	1304.845	1298.699	1302.481	1293.499
167.5	1318.555	1307.682	1302.009	1305.318	1296.808
168.0	1321.865	1310.518	1304.845	1308.155	1299.645
168.5	1325.174	1313.355	1307.682	1310.991	1302.954
169.0	1328.011	1315.719	1310.518	1313.355	1305.791
169.5	1330.375	1318.083	1312.882	1315.719	1308.627
170.0	1332.739	1320.447	1315.246	1318.083	1311.937
170.5	1335.102	1322.810	1317.137	1320.447	1314.301
171.0	1337.466	1324.702	1319.028	1322.810	1316.664
171.5	1339.357	1326.593	1320.919	1325.174	1319.028
172.0	1341.248	1328.484	1322.338	1327.065	1320.919
172.5	1343.140	1330.375	1323.756	1328.484	1322.338
173.0	1345.031	1332.266	1325.174	1330.375	1323.283
173.5	1346.449	1333.684	1326.593	1331.320	1324.229
174.0	1347.867	1335.102	1328.011	1332.266	1324.702
174.5	1348.813	1336.048	1328.956	1333.211	1325.174
175.0	1349.758	1337.466	1329.902	1333.684	1325.174
175.5	1350.704	1338.412	1331.320	1334.157	1325.647
176.0	1351.649	1339.357	1332.266	1334.157	1325.647
176.5	1352.122	1340.303	1332.739	1334.630	1325.647
177.0	1352.595	1341.248	1333.684	1334.630	1325.174
177.5	1353.540	1342.194	1334.630	1334.630	1325.174
178.0	1354.013	1342.194	1335.102	1334.630	1325.647
178.5	1354.013	1342.667	1335.575	1334.630	1325.647
179.0	1354.486	1343.140	1335.575	1334.630	1325.647
179.5	1354.959	1343.140	1336.048	1334.630	1325.647
180.0	1338.412	1338.412	1338.412	1338.412	1338.412



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L8-840D-F-F-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	488.36	N.A.	7.10
0-30	1020.99	N.A.	14.90
0-40	1640.23	N.A.	23.90
0-60	2787.13	N.A.	40.60
0-80	3413.15	N.A.	49.70
0-90	3479.3	N.A.	50.70
10-90	3351.82	N.A.	48.80
20-40	1151.88	N.A.	16.80
20-50	1766.6	N.A.	25.70
40-70	1545.47	N.A.	22.50
60-80	626.02	N.A.	9.10
70-80	227.44	N.A.	3.30
80-90	66.15	N.A.	1.00
90-110	193.69	N.A.	2.80
90-120	497.22	N.A.	7.20
90-130	1007.29	N.A.	14.70
90-150	2342.89	N.A.	34.10
90-180	3386.09	N.A.	49.30
110-180	3192.4	N.A.	46.50
0-180	6865.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.47
10-20	360.89
20-30	532.63
30-40	619.24
40-50	614.72
50-60	532.17
60-70	398.58
70-80	227.44
80-90	66.15
90-100	41.78
100-110	151.92
110-120	303.53
120-130	510.07
130-140	666.96
140-150	668.63
150-160	552.32
160-170	363.96
170-180	126.92

IES INDOOR REPORT  
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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-L8-840D-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	15.6	16.5	16.6	17.5	18.7	15.5	16.4	16.5	17.4	18.6
	3H	17.4	18.2	18.3	19.1	20.4	17.3	18.1	18.2	19.0	20.3
	4H	18.0	18.7	19.0	19.7	21.0	17.9	18.7	18.9	19.6	20.9
	6H	18.4	19.1	19.4	20.1	21.4	18.4	19.1	19.4	20.0	21.3
	8H	18.6	19.2	19.5	20.2	21.5	18.5	19.2	19.5	20.2	21.5
	12H	18.6	19.3	19.6	20.2	21.6	18.6	19.2	19.6	20.2	21.6

### UGR Viewed Endwise

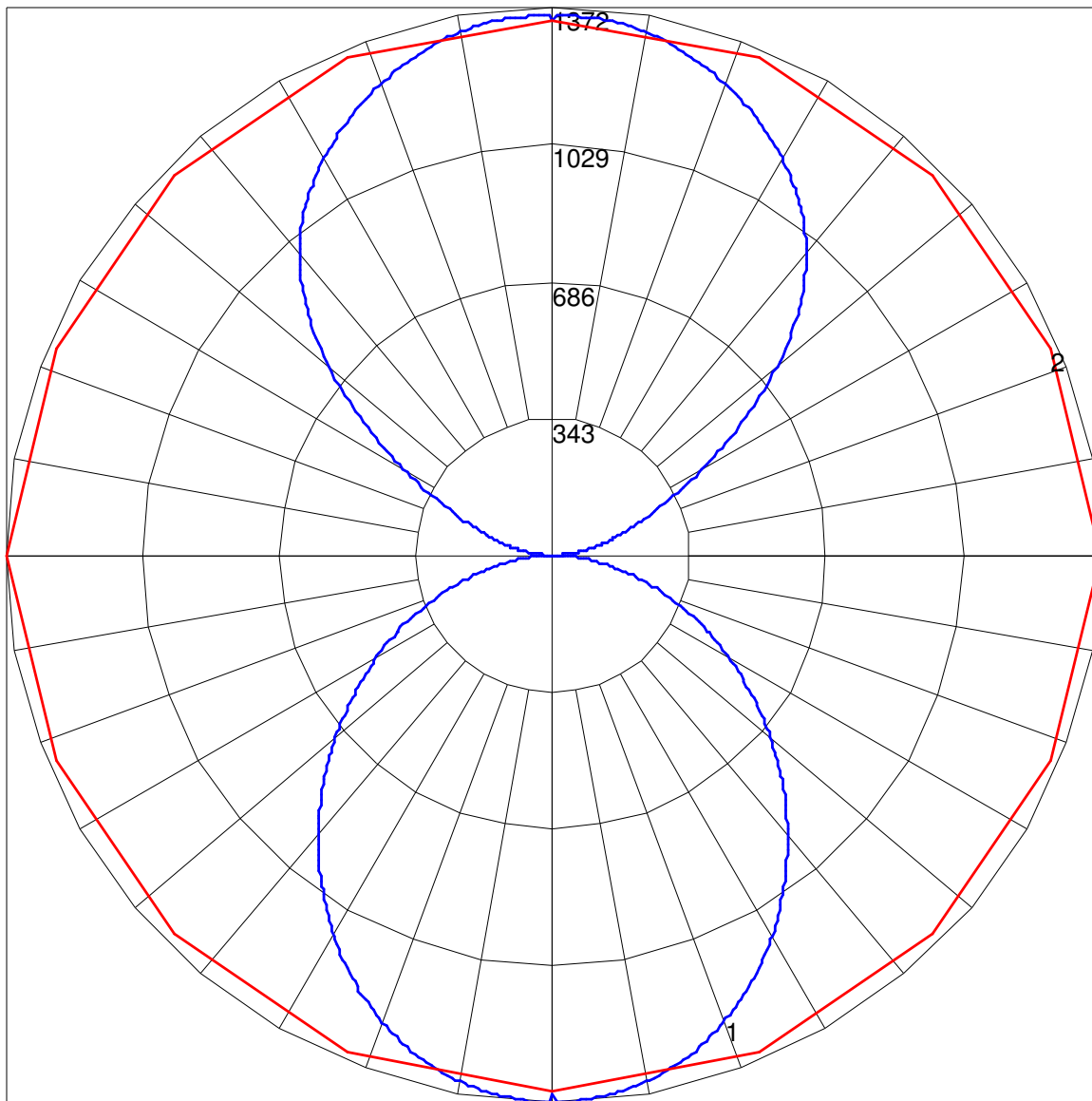
4H	2H	16.1	16.9	17.1	17.9	19.2	16.1	16.8	17.0	17.8	19.1
	3H	18.1	18.7	19.1	19.7	21.0	18.0	18.7	19.0	19.7	21.0
	4H	18.9	19.4	19.8	20.4	21.7	18.8	19.4	19.8	20.4	21.7
	6H	19.4	19.9	20.4	20.9	22.2	19.4	19.9	20.4	20.9	22.2
	8H	19.6	20.0	20.6	21.1	22.4	19.6	20.0	20.6	21.1	22.4
	12H	19.7	20.1	20.7	21.1	22.5	19.7	20.1	20.8	21.2	22.5

8H	4H	19.1	19.6	20.1	20.6	21.9	19.1	19.5	20.1	20.5	21.9
	6H	19.8	20.2	20.8	21.2	22.6	19.8	20.2	20.8	21.2	22.5
	8H	20.0	20.4	21.1	21.4	22.8	20.1	20.4	21.1	21.4	22.8
	12H	20.2	20.5	21.3	21.6	23.0	20.3	20.6	21.3	21.6	23.0

12H	4H	19.1	19.5	20.1	20.5	21.9	19.0	19.5	20.1	20.5	21.8
	6H	19.8	20.2	20.9	21.2	22.6	19.8	20.2	20.9	21.2	22.6
	8H	20.1	20.4	21.2	21.5	22.9	20.1	20.4	21.2	21.5	22.9

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1371.678 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.)