

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L8-950D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & #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-L12-950U-L8-950D-F-F-DIM-UNV\_

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[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	7340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	68.4
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	9987	9737	9626
55	9181	8958	8864
65	8468	8263	8174
75	7181	7177	7173
85	5608	5834	6002

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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>	1449.170	1449.170	1449.170	1449.170	1449.170
<b>0.5</b>	1471.053	1450.386	1443.091	1446.130	1441.267
<b>1.0</b>	1471.053	1449.778	1443.091	1446.130	1441.267
<b>1.5</b>	1470.445	1449.170	1442.483	1446.130	1440.660
<b>2.0</b>	1469.838	1448.562	1441.875	1445.523	1440.660
<b>2.5</b>	1469.230	1447.954	1440.660	1444.915	1440.052
<b>3.0</b>	1468.014	1446.738	1440.052	1444.307	1438.836
<b>3.5</b>	1466.798	1445.523	1438.836	1443.091	1437.620
<b>4.0</b>	1465.582	1444.307	1437.620	1441.875	1436.404
<b>4.5</b>	1464.367	1442.483	1436.404	1440.660	1434.581
<b>5.0</b>	1463.151	1441.267	1434.581	1438.836	1432.757
<b>5.5</b>	1461.327	1439.444	1432.757	1437.012	1430.934
<b>6.0</b>	1459.504	1437.012	1430.934	1435.189	1428.502
<b>6.5</b>	1457.072	1435.189	1428.502	1432.757	1426.679
<b>7.0</b>	1455.249	1432.757	1426.679	1430.326	1424.247
<b>7.5</b>	1453.425	1430.326	1424.247	1427.894	1422.423
<b>8.0</b>	1450.386	1427.894	1421.208	1425.463	1419.992
<b>8.5</b>	1447.954	1424.855	1418.168	1422.423	1416.953
<b>9.0</b>	1444.915	1422.423	1415.737	1419.384	1413.913
<b>9.5</b>	1441.875	1419.384	1412.090	1415.737	1410.874
<b>10.0</b>	1438.836	1416.345	1409.050	1412.697	1407.227
<b>10.5</b>	1435.189	1412.697	1405.403	1409.050	1404.187
<b>11.0</b>	1432.149	1409.050	1401.756	1405.403	1399.932
<b>11.5</b>	1427.894	1405.403	1398.108	1401.756	1396.285
<b>12.0</b>	1424.247	1401.756	1394.461	1397.501	1392.030
<b>12.5</b>	1420.600	1397.501	1390.206	1393.245	1387.775
<b>13.0</b>	1416.345	1393.853	1385.951	1388.990	1383.520
<b>13.5</b>	1412.090	1388.990	1381.696	1384.127	1379.264
<b>14.0</b>	1407.834	1384.735	1376.833	1379.872	1375.009
<b>14.5</b>	1403.579	1380.480	1371.970	1375.009	1370.146
<b>15.0</b>	1399.324	1375.617	1367.107	1370.146	1365.283
<b>15.5</b>	1393.853	1371.362	1362.244	1364.675	1359.812
<b>16.0</b>	1387.775	1366.499	1356.773	1359.812	1354.949
<b>16.5</b>	1381.696	1361.028	1351.302	1354.342	1349.479
<b>17.0</b>	1376.225	1355.557	1345.831	1348.871	1344.008
<b>17.5</b>	1370.146	1349.479	1339.753	1342.792	1337.929
<b>18.0</b>	1364.068	1343.400	1333.674	1336.713	1331.850
<b>18.5</b>	1357.989	1337.321	1327.595	1330.027	1325.772
<b>19.0</b>	1351.910	1331.242	1322.124	1323.948	1318.477
<b>19.5</b>	1345.223	1325.164	1316.046	1316.653	1311.183
<b>20.0</b>	1339.145	1318.477	1310.575	1309.967	1303.888
<b>20.5</b>	1332.458	1312.398	1304.496	1302.672	1296.594
<b>21.0</b>	1325.772	1305.712	1297.809	1295.378	1288.691
<b>21.5</b>	1318.477	1299.025	1290.515	1288.083	1280.789
<b>22.0</b>	1311.790	1291.731	1282.613	1280.181	1273.494
<b>22.5</b>	1304.496	1284.436	1275.318	1272.279	1265.592
<b>23.0</b>	1297.202	1277.142	1268.024	1263.768	1257.690
<b>23.5</b>	1289.907	1269.847	1260.121	1255.866	1250.395
<b>24.0</b>	1282.005	1262.553	1252.827	1247.964	1242.493
<b>24.5</b>	1274.102	1254.650	1244.924	1240.061	1234.591
<b>25.0</b>	1266.808	1246.748	1237.022	1232.159	1226.688
<b>25.5</b>	1258.905	1238.846	1228.512	1224.257	1218.178
<b>26.0</b>	1250.395	1230.335	1220.609	1216.354	1210.276
<b>26.5</b>	1242.493	1222.433	1212.099	1208.452	1202.373

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27.0	1233.983	1213.923	1203.589	1200.550	1193.863
27.5	1225.472	1205.413	1195.687	1192.647	1185.961
28.0	1216.962	1196.295	1186.569	1184.137	1177.450
28.5	1207.844	1187.176	1178.058	1176.235	1168.940
29.0	1198.726	1178.666	1169.548	1167.725	1160.430
29.5	1190.216	1169.548	1161.038	1158.606	1152.528
30.0	1181.098	1160.430	1152.528	1150.096	1144.017
30.5	1171.980	1151.312	1143.410	1141.586	1135.507
31.0	1162.254	1142.802	1134.291	1132.468	1126.997
31.5	1153.136	1133.684	1125.173	1123.350	1117.879
32.0	1143.410	1123.958	1116.055	1113.624	1108.761
32.5	1133.684	1114.840	1106.937	1104.506	1099.035
33.0	1123.958	1105.721	1097.819	1095.388	1089.309
33.5	1114.840	1095.995	1088.093	1085.662	1080.191
34.0	1104.506	1086.269	1078.975	1075.936	1070.465
34.5	1094.780	1076.544	1068.641	1066.210	1060.131
35.0	1085.054	1067.425	1058.915	1056.484	1049.797
35.5	1074.720	1057.092	1049.189	1046.758	1039.463
36.0	1064.386	1047.366	1039.463	1036.424	1029.737
36.5	1054.660	1037.640	1029.737	1026.698	1020.011
37.0	1044.326	1027.306	1019.403	1016.364	1009.677
37.5	1033.992	1016.972	1009.677	1006.030	999.951
38.0	1023.051	1006.638	999.344	995.696	989.618
38.5	1012.717	996.304	989.010	985.970	979.284
39.0	1002.991	985.970	978.676	975.637	969.558
39.5	992.049	975.637	968.950	965.303	958.616
40.0	981.715	964.695	958.616	954.969	948.890
40.5	970.774	954.361	948.282	944.635	938.556
41.0	960.440	943.419	937.948	933.693	927.615
41.5	949.498	933.085	927.007	923.359	916.673
42.0	939.164	922.144	916.673	913.026	906.339
42.5	928.830	911.810	906.339	902.084	896.005
43.0	917.889	901.476	896.005	891.750	885.063
43.5	907.555	890.534	885.063	881.416	874.730
44.0	896.613	879.593	874.122	870.474	864.396
44.5	885.671	868.651	863.180	859.533	853.454
45.0	874.730	858.317	852.846	848.591	843.120
45.5	864.396	847.375	841.904	838.257	832.786
46.0	853.454	836.434	830.963	827.315	822.453
46.5	842.512	825.492	820.629	816.982	812.119
47.0	831.571	814.550	809.687	806.040	801.177
47.5	820.021	803.608	798.745	795.098	790.843
48.0	809.079	792.667	787.804	784.764	779.901
48.5	798.138	781.725	777.470	773.823	768.960
49.0	786.588	770.783	766.528	762.881	758.626
49.5	775.646	759.842	755.586	752.547	748.292
50.0	764.097	748.900	744.645	741.605	737.350
50.5	752.547	737.958	733.703	730.664	727.016
51.0	740.997	727.016	722.761	719.722	716.075
51.5	730.056	716.075	711.820	709.388	705.133
52.0	719.114	705.133	700.878	698.446	694.799
52.5	707.564	694.191	689.936	688.113	683.857
53.0	696.623	683.250	678.994	677.171	672.916
53.5	685.073	672.308	668.053	666.229	661.974
54.0	674.131	661.366	657.719	655.895	651.032
54.5	663.190	651.032	646.777	644.954	640.091

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55.0	652.248	640.698	636.443	634.620	629.757
55.5	641.914	629.757	625.502	623.678	619.423
56.0	630.365	618.815	614.560	613.344	608.481
56.5	619.423	608.481	603.922	602.585	597.783
57.0	609.089	597.539	593.163	591.704	587.145
57.5	598.390	586.962	582.464	581.127	576.385
58.0	587.692	576.507	571.705	570.489	565.748
58.5	576.932	565.991	561.128	560.034	555.535
59.0	566.355	555.414	550.490	549.457	545.141
59.5	556.082	544.715	539.670	538.940	534.868
60.0	545.566	534.077	528.971	528.363	524.412
60.5	535.172	523.683	518.637	517.726	513.835
61.0	524.959	513.288	508.364	507.331	503.501
61.5	514.018	503.015	498.152	496.997	493.289
62.0	503.258	492.438	487.575	486.724	482.834
62.5	492.256	482.651	477.606	476.937	472.925
63.0	481.679	474.020	469.947	469.643	466.360
63.5	470.980	464.598	461.376	460.707	457.303
64.0	464.537	455.419	452.501	451.164	447.273
64.5	454.507	445.632	442.471	441.255	437.608
65.0	443.261	435.176	432.563	431.408	427.882
65.5	431.772	424.600	422.229	421.682	418.095
66.0	420.709	414.266	412.138	411.895	408.065
66.5	409.767	403.689	401.865	401.865	398.461
67.0	398.947	393.172	391.714	391.896	388.796
67.5	388.309	382.839	381.501	381.866	378.827
68.0	377.550	372.505	371.289	371.775	368.614
68.5	366.730	361.989	361.016	361.685	358.584
69.0	355.545	351.412	350.682	351.047	348.190
69.5	344.664	341.017	340.166	340.591	337.978
70.0	333.905	330.501	329.893	330.075	327.765
70.5	323.328	319.924	319.498	319.681	317.492
71.0	312.508	309.407	309.286	309.529	307.158
71.5	301.687	298.891	299.134	299.317	297.250
72.0	291.171	288.314	288.801	289.044	287.281
72.5	280.655	277.920	278.710	278.953	277.494
73.0	270.260	267.768	268.862	269.166	267.890
73.5	260.170	257.738	259.015	259.562	258.164
74.0	250.201	247.708	249.289	249.714	248.803
74.5	240.232	237.861	239.624	240.049	239.380
75.0	230.202	228.074	230.080	230.506	229.958
75.5	220.293	218.287	220.597	221.144	220.536
76.0	210.263	208.865	211.236	211.844	211.358
76.5	200.781	199.565	201.936	202.604	202.179
77.0	191.541	190.204	192.817	193.425	192.757
77.5	181.997	181.085	183.699	184.186	183.517
78.0	172.697	171.967	174.581	175.311	174.642
78.5	163.457	163.092	165.585	166.436	165.889
79.0	154.582	154.217	156.771	157.804	157.378
79.5	145.707	145.525	148.078	149.172	148.807
80.0	136.954	137.015	139.385	140.905	140.419
80.5	128.140	128.687	131.118	132.577	132.212
81.0	119.690	120.541	122.912	124.432	124.189
81.5	111.545	112.457	114.888	116.408	116.225
82.0	103.946	104.554	107.046	108.627	108.445
82.5	96.348	96.895	99.326	100.907	100.785

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83.0	88.749	89.601	91.728	93.369	93.491
83.5	81.273	82.306	84.373	85.953	86.318
84.0	74.282	75.133	77.078	78.598	79.145
84.5	67.170	68.082	69.905	71.425	71.972
85.0	60.544	61.274	62.976	64.313	64.799
85.5	54.101	54.465	55.924	57.322	57.809
86.0	47.779	47.900	49.177	50.453	51.061
86.5	41.518	41.518	42.673	43.828	44.375
87.0	35.196	35.196	36.047	37.506	37.931
87.5	28.935	28.996	29.786	31.245	31.792
88.0	22.978	22.917	23.707	25.288	25.895
88.5	17.264	16.899	17.932	19.330	20.181
89.0	11.185	11.002	12.401	13.738	14.650
89.5	5.167	6.139	7.416	8.449	8.753
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.729	1.965	1.814	1.764	1.915
91.0	8.214	4.334	3.527	3.477	3.427
91.5	13.202	8.818	5.241	5.190	5.140
92.0	18.241	14.664	7.559	6.752	6.752
92.5	23.482	20.711	11.691	8.466	8.314
93.0	28.924	26.505	16.528	11.237	10.129
93.5	34.417	32.048	21.718	15.168	13.202
94.0	39.809	37.491	27.463	19.854	17.385
94.5	45.352	42.933	33.459	24.691	21.920
95.0	50.794	48.526	39.355	29.630	26.405
95.5	56.236	53.767	45.100	34.719	31.141
96.0	61.426	59.108	50.743	40.010	35.979
96.5	66.667	64.450	56.387	45.402	40.968
97.0	71.756	69.690	61.980	50.794	46.259
97.5	76.997	74.981	67.624	56.286	51.550
98.0	82.187	80.171	73.117	61.728	56.891
98.5	87.377	85.412	78.408	67.271	62.232
99.0	92.668	90.804	83.800	72.562	67.624
99.5	98.010	96.145	89.242	77.853	72.915
100.0	103.250	101.537	94.684	83.296	78.105
100.5	108.692	106.929	100.126	88.939	83.346
101.0	114.286	112.321	105.669	94.633	89.040
101.5	119.980	117.813	111.313	100.328	94.936
102.0	125.523	123.507	116.957	106.022	100.781
102.5	131.318	129.151	122.802	111.716	106.576
103.0	137.264	134.996	128.597	117.360	112.472
103.5	143.210	140.942	134.744	123.406	118.317
104.0	149.307	146.939	140.993	129.655	124.414
104.5	155.606	153.187	147.241	136.055	130.512
105.0	162.056	159.587	153.439	142.353	136.710
105.5	168.657	166.087	159.839	148.703	142.857
106.0	175.359	172.638	166.339	155.153	149.005
106.5	182.112	179.390	173.142	161.653	155.203
107.0	189.317	186.445	180.398	168.556	161.955
107.5	196.775	193.701	187.755	175.863	169.262
108.0	204.183	201.159	195.263	183.774	176.770
108.5	211.993	208.768	202.772	191.686	184.530
109.0	220.005	216.528	210.481	199.698	192.391
109.5	228.219	224.591	218.594	207.660	200.353
110.0	236.987	232.855	226.909	215.823	208.667
110.5	245.956	241.320	235.425	224.591	217.284

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111.0	255.027	250.189	244.243	233.711	225.951
111.5	264.299	259.310	253.213	242.983	234.870
112.0	273.923	268.682	262.132	252.255	243.386
112.5	283.598	278.307	271.152	261.477	252.406
113.0	293.727	288.234	280.675	271.000	261.829
113.5	304.157	298.614	290.754	281.280	271.958
114.0	314.739	309.197	301.436	292.215	283.195
114.5	325.674	320.131	312.321	303.603	295.138
115.0	336.760	331.368	323.608	315.092	307.231
115.5	348.350	342.706	335.198	326.531	319.174
116.0	360.041	354.498	347.191	338.574	331.318
116.5	372.386	366.591	359.587	350.920	344.268
117.0	385.236	378.937	372.084	364.223	357.622
117.5	394.709	388.562	383.523	376.468	371.177
118.0	406.803	399.799	395.264	389.116	383.220
118.5	420.862	413.203	407.257	400.857	394.054
119.0	434.619	426.405	420.862	414.160	406.098
119.5	448.526	440.464	435.274	427.665	419.602
120.0	462.888	455.027	449.736	442.429	433.863
120.5	477.148	469.791	464.651	458.101	449.081
121.0	492.114	484.858	479.668	473.722	465.256
121.5	506.929	499.774	494.634	489.544	481.079
122.0	522.550	514.992	510.456	505.417	496.952
122.5	537.667	530.109	526.078	521.038	511.968
123.0	553.288	546.234	542.202	538.171	528.597
123.5	569.413	562.359	559.335	555.304	545.730
124.0	585.538	578.988	575.964	572.437	563.367
124.5	601.663	595.113	592.593	589.066	580.499
125.0	617.788	611.238	608.718	605.695	597.128
125.5	634.417	627.866	625.347	622.323	613.253
126.0	650.542	643.991	642.480	638.952	629.378
126.5	666.667	660.116	659.613	656.589	646.511
127.0	683.296	676.745	676.745	674.226	664.652
127.5	699.925	692.870	692.870	691.359	682.792
128.0	716.050	708.995	709.499	708.491	699.925
128.5	732.175	724.616	725.624	725.624	716.554
129.0	748.300	740.237	741.749	742.253	733.687
129.5	764.425	756.362	758.378	759.386	751.323
130.0	780.550	772.487	775.007	776.519	769.968
130.5	796.675	788.108	792.140	793.147	787.605
131.0	812.800	803.730	808.265	809.272	803.730
131.5	827.917	818.847	824.390	824.390	819.351
132.0	843.538	833.964	840.011	840.515	834.468
132.5	858.655	849.585	855.632	856.136	849.585
133.0	873.772	865.206	870.749	871.757	864.198
133.5	888.890	880.323	886.370	887.378	879.819
134.0	904.007	894.936	900.983	902.495	894.936
134.5	917.612	909.550	915.093	916.100	909.550
135.0	931.218	923.659	928.698	929.706	922.651
135.5	944.319	938.272	942.304	942.807	935.753
136.0	957.421	951.878	954.901	956.413	949.358
136.5	971.026	964.979	967.499	970.018	963.468
137.0	983.624	978.081	980.600	982.616	976.569
137.5	996.221	990.175	992.694	994.206	988.159
138.0	1008.315	1002.268	1004.284	1005.292	999.245
138.5	1020.409	1013.858	1015.874	1016.378	1009.827

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L8-950D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1031.999	1025.448	1027.464	1027.464	1020.409
139.5	1043.589	1037.038	1038.550	1038.046	1030.487
140.0	1054.675	1047.620	1049.635	1049.132	1041.573
140.5	1065.257	1057.698	1059.714	1059.210	1051.147
141.0	1075.839	1068.280	1069.792	1068.784	1060.721
141.5	1085.413	1077.854	1079.870	1078.358	1069.288
142.0	1095.491	1087.932	1089.444	1087.428	1078.358
142.5	1105.065	1097.507	1099.018	1097.003	1086.924
143.0	1114.639	1106.577	1108.089	1106.073	1095.995
143.5	1123.710	1116.151	1117.159	1115.143	1104.561
144.0	1132.276	1125.221	1125.725	1123.206	1112.624
144.5	1140.842	1133.788	1134.292	1131.268	1120.686
145.0	1148.905	1142.354	1142.354	1138.827	1128.245
145.5	1157.471	1150.921	1150.417	1147.393	1136.307
146.0	1165.534	1158.983	1158.479	1154.952	1144.370
146.5	1173.596	1167.045	1166.038	1163.014	1152.432
147.0	1181.155	1175.108	1173.092	1171.077	1160.495
147.5	1188.713	1182.667	1180.651	1178.635	1168.053
148.0	1196.272	1190.225	1187.202	1185.690	1176.116
148.5	1203.831	1197.784	1193.752	1192.745	1184.178
149.0	1210.885	1205.342	1200.303	1199.799	1192.241
149.5	1217.940	1212.397	1206.350	1206.854	1199.799
150.0	1224.995	1219.452	1212.901	1213.405	1206.854
150.5	1232.049	1226.506	1218.948	1219.452	1213.909
151.0	1238.600	1233.057	1224.995	1225.499	1220.459
151.5	1245.655	1239.608	1231.545	1231.545	1226.506
152.0	1252.206	1246.159	1237.592	1237.088	1232.553
152.5	1258.756	1252.206	1243.639	1243.135	1238.096
153.0	1265.307	1258.252	1249.686	1249.182	1243.135
153.5	1271.354	1264.299	1255.733	1255.229	1247.670
154.0	1277.401	1270.346	1262.284	1261.276	1252.709
154.5	1283.952	1275.889	1268.331	1266.819	1257.749
155.0	1289.998	1281.432	1274.377	1272.866	1263.291
155.5	1295.541	1286.471	1280.424	1278.913	1268.834
156.0	1301.084	1292.014	1286.975	1284.456	1274.377
156.5	1306.627	1297.557	1293.022	1290.502	1279.920
157.0	1312.170	1303.100	1299.069	1296.549	1285.463
157.5	1317.209	1308.139	1304.612	1302.092	1291.006
158.0	1322.248	1313.178	1310.155	1307.635	1296.549
158.5	1327.791	1318.721	1315.698	1313.178	1302.596
159.0	1332.327	1323.760	1320.737	1318.721	1308.139
159.5	1337.366	1328.799	1325.776	1324.264	1313.682
160.0	1341.901	1333.334	1330.815	1329.303	1319.225
160.5	1346.436	1337.870	1335.350	1334.342	1324.768
161.0	1350.971	1342.405	1339.885	1339.381	1330.311
161.5	1355.506	1347.444	1343.916	1344.420	1335.854
162.0	1360.545	1351.979	1347.948	1349.459	1340.893
162.5	1365.080	1356.514	1351.979	1353.994	1345.428
163.0	1369.616	1361.049	1356.010	1358.530	1349.963
163.5	1374.151	1365.080	1360.041	1363.065	1353.994
164.0	1378.686	1369.112	1363.569	1367.096	1358.026
164.5	1382.213	1373.143	1367.096	1371.127	1362.057
165.0	1386.244	1377.174	1370.623	1375.159	1365.584
165.5	1390.276	1380.701	1374.151	1378.686	1369.112
166.0	1394.307	1384.229	1377.678	1382.213	1372.135
166.5	1398.338	1387.756	1381.205	1385.237	1375.662

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L8-950D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1401.866	1390.780	1384.229	1388.260	1378.686
167.5	1405.393	1393.803	1387.756	1391.284	1382.213
168.0	1408.920	1396.826	1390.780	1394.307	1385.237
168.5	1412.448	1399.850	1393.803	1397.330	1388.764
169.0	1415.471	1402.369	1396.826	1399.850	1391.787
169.5	1417.991	1404.889	1399.346	1402.369	1394.811
170.0	1420.510	1407.408	1401.866	1404.889	1398.338
170.5	1423.030	1409.928	1403.881	1407.408	1400.858
171.0	1425.549	1411.944	1405.897	1409.928	1403.377
171.5	1427.565	1413.959	1407.912	1412.448	1405.897
172.0	1429.580	1415.975	1409.424	1414.463	1407.912
172.5	1431.596	1417.991	1410.936	1415.975	1409.424
173.0	1433.612	1420.006	1412.448	1417.991	1410.432
173.5	1435.123	1421.518	1413.959	1418.998	1411.440
174.0	1436.635	1423.030	1415.471	1420.006	1411.944
174.5	1437.643	1424.037	1416.479	1421.014	1412.448
175.0	1438.651	1425.549	1417.487	1421.518	1412.448
175.5	1439.658	1426.557	1418.998	1422.022	1412.951
176.0	1440.666	1427.565	1420.006	1422.022	1412.951
176.5	1441.170	1428.573	1420.510	1422.526	1412.951
177.0	1441.674	1429.580	1421.518	1422.526	1412.448
177.5	1442.682	1430.588	1422.526	1422.526	1412.448
178.0	1443.186	1430.588	1423.030	1422.526	1412.951
178.5	1443.186	1431.092	1423.533	1422.526	1412.951
179.0	1443.690	1431.596	1423.533	1422.526	1412.951
179.5	1444.194	1431.596	1424.037	1422.526	1412.951
180.0	1426.557	1426.557	1426.557	1426.557	1426.557



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L8-950D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.74	N.A.	7.10
0-30	1094.96	N.A.	14.90
0-40	1759.07	N.A.	24.00
0-60	2989.05	N.A.	40.70
0-80	3660.42	N.A.	49.90
0-90	3731.36	N.A.	50.80
10-90	3594.66	N.A.	49.00
20-40	1235.33	N.A.	16.80
20-50	1894.59	N.A.	25.80
40-70	1657.44	N.A.	22.60
60-80	671.38	N.A.	9.10
70-80	243.92	N.A.	3.30
80-90	70.94	N.A.	1.00
90-110	206.45	N.A.	2.80
90-120	529.97	N.A.	7.20
90-130	1073.63	N.A.	14.60
90-150	2497.18	N.A.	34.00
90-180	3609.09	N.A.	49.20
110-180	3402.64	N.A.	46.40
0-180	7340.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.71
10-20	387.03
20-30	571.22
30-40	664.11
40-50	659.26
50-60	570.72
60-70	427.46
70-80	243.92
80-90	70.94
90-100	44.53
100-110	161.92
110-120	323.52
120-130	543.66
130-140	710.89
140-150	712.67
150-160	588.70
160-170	387.93
170-180	135.28

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L8-950D-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	40	35	38	34	30	32	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	26	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-L12-950U-L8-950D-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	15.8	16.7	16.8	17.7	18.9	UGR Viewed Endwise			
	3H	17.6	18.4	18.6	19.4	20.6	15.7	16.6	16.7	17.6
	4H	18.2	19.0	19.2	19.9	21.2	17.5	18.3	18.5	19.3
	6H	18.6	19.3	19.6	20.3	21.6	18.1	18.9	19.1	19.9
	8H	18.8	19.4	19.8	20.4	21.7	18.6	19.3	19.6	20.3
	12H	18.9	19.5	19.9	20.5	21.8	18.7	19.4	19.7	20.4

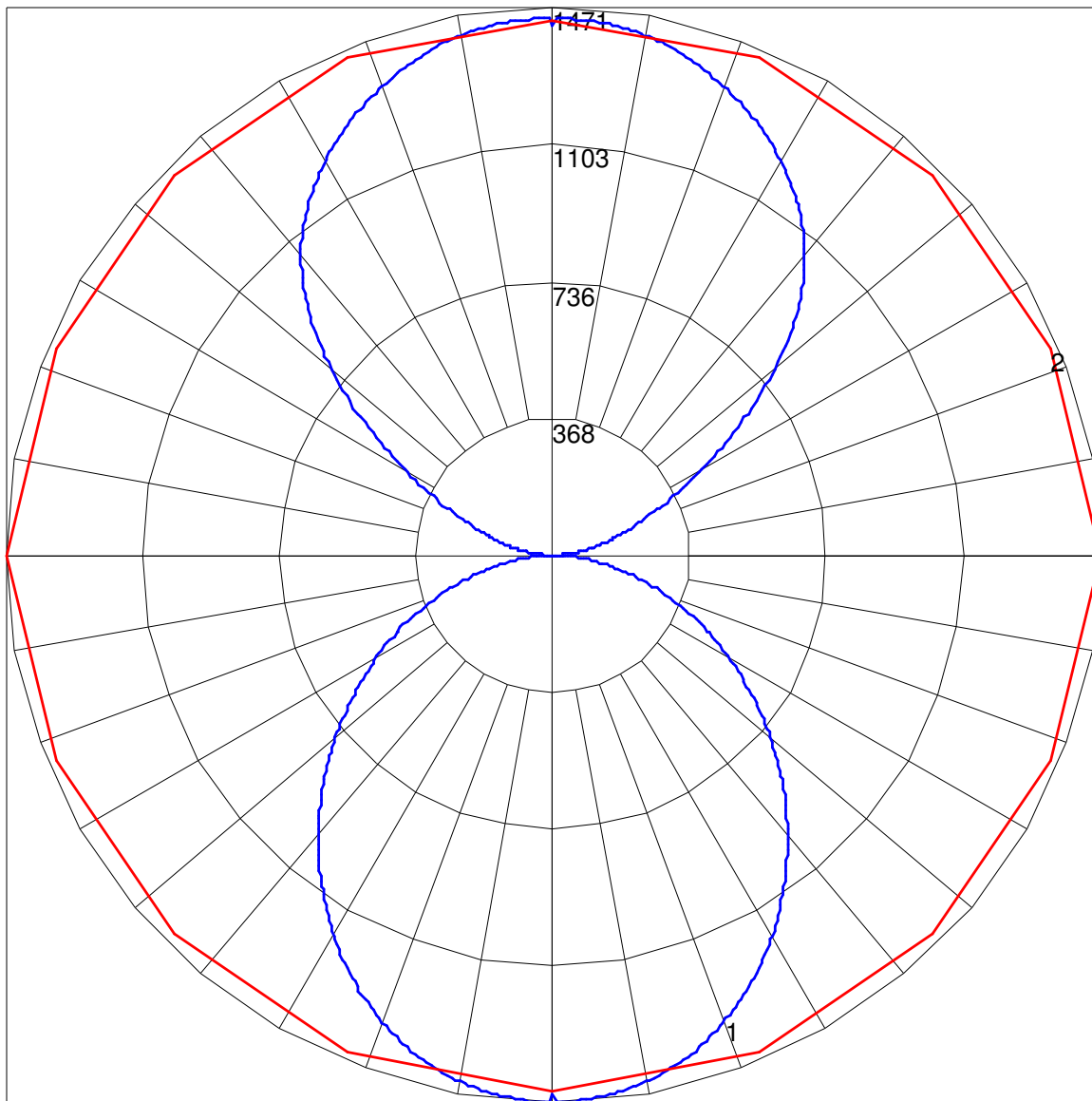
4H	2H	16.4	17.1	17.3	18.1	19.4	18.8	19.5	19.8	20.5
	3H	18.3	19.0	19.3	20.0	21.3	15.7	16.6	16.7	17.6
	4H	19.1	19.6	20.1	20.6	22.0	17.5	18.3	18.5	19.3
	6H	19.6	20.1	20.6	21.1	22.5	18.1	18.9	19.1	19.9
	8H	19.8	20.3	20.8	21.3	22.6	18.6	19.3	19.6	20.3
	12H	19.9	20.3	20.9	21.4	22.7	18.7	19.4	19.7	20.4

8H	4H	19.3	19.8	20.3	20.8	22.1	18.8	19.5	19.8	20.5
	6H	20.0	20.4	21.0	21.4	22.8	15.7	16.6	16.7	17.6
	8H	20.3	20.6	21.3	21.6	23.0	17.5	18.3	18.5	19.3
	12H	20.5	20.8	21.5	21.8	23.2	18.1	18.9	19.1	19.9

12H	4H	19.3	19.7	20.3	20.8	22.1	18.6	19.3	19.6	20.3
	6H	20.1	20.4	21.1	21.4	22.8	18.7	19.4	19.7	20.4
	8H	20.3	20.6	21.4	21.7	23.1	18.8	19.5	19.8	20.5

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1471.053 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.)