

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-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-L12-927U-L12-927D-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	7924
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	81.9
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	10781	10511	10391
55	9910	9670	9569
65	9141	8920	8824
75	7751	7747	7743
85	6054	6297	6479

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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	1564.318	1564.318	1564.318	1564.318	1564.318
0.5	1587.940	1565.630	1557.756	1561.037	1555.788
1.0	1587.940	1564.974	1557.756	1561.037	1555.788
1.5	1587.284	1564.318	1557.100	1561.037	1555.132
2.0	1586.628	1563.662	1556.444	1560.381	1555.132
2.5	1585.972	1563.006	1555.132	1559.725	1554.476
3.0	1584.660	1561.693	1554.476	1559.069	1553.163
3.5	1583.347	1560.381	1553.163	1557.756	1551.851
4.0	1582.035	1559.069	1551.851	1556.444	1550.538
4.5	1580.722	1557.100	1550.538	1555.132	1548.570
5.0	1579.410	1555.788	1548.570	1553.163	1546.601
5.5	1577.442	1553.819	1546.601	1551.195	1544.633
6.0	1575.473	1551.195	1544.633	1549.226	1542.008
6.5	1572.848	1549.226	1542.008	1546.601	1540.040
7.0	1570.880	1546.601	1540.040	1543.977	1537.415
7.5	1568.911	1543.977	1537.415	1541.352	1535.446
8.0	1565.630	1541.352	1534.134	1538.727	1532.822
8.5	1563.006	1538.071	1530.853	1535.446	1529.541
9.0	1559.725	1535.446	1528.229	1532.166	1526.260
9.5	1556.444	1532.166	1524.292	1528.229	1522.979
10.0	1553.163	1528.885	1521.011	1524.948	1519.042
10.5	1549.226	1524.948	1517.074	1521.011	1515.761
11.0	1545.945	1521.011	1513.137	1517.074	1511.168
11.5	1541.352	1517.074	1509.200	1513.137	1507.231
12.0	1537.415	1513.137	1505.262	1508.543	1502.638
12.5	1533.478	1508.543	1500.669	1503.950	1498.045
13.0	1528.885	1504.606	1496.076	1499.357	1493.451
13.5	1524.292	1499.357	1491.483	1494.108	1488.858
14.0	1519.698	1494.764	1486.233	1489.514	1484.265
14.5	1515.105	1490.170	1480.984	1484.265	1479.016
15.0	1510.512	1484.921	1475.735	1479.016	1473.766
15.5	1504.606	1480.328	1470.485	1473.110	1467.861
16.0	1498.045	1475.078	1464.580	1467.861	1462.611
16.5	1491.483	1469.173	1458.674	1461.955	1456.706
17.0	1485.577	1463.267	1452.769	1456.049	1450.800
17.5	1479.016	1456.706	1446.207	1449.488	1444.238
18.0	1472.454	1450.144	1439.645	1442.926	1437.677
18.5	1465.892	1443.582	1433.083	1435.708	1431.115
19.0	1459.330	1437.020	1427.178	1429.146	1423.241
19.5	1452.112	1430.459	1420.616	1421.272	1415.367
20.0	1445.551	1423.241	1414.711	1414.054	1407.493
20.5	1438.333	1416.679	1408.149	1406.180	1399.619
21.0	1431.115	1409.461	1400.931	1398.306	1391.088
21.5	1423.241	1402.243	1393.057	1390.432	1382.558
22.0	1416.023	1394.369	1384.527	1381.902	1374.684
22.5	1408.149	1386.495	1376.652	1373.372	1366.154
23.0	1400.275	1378.621	1368.778	1364.185	1357.623
23.5	1392.401	1370.747	1360.248	1355.655	1349.749
24.0	1383.870	1362.873	1352.374	1347.125	1341.219
24.5	1375.340	1354.343	1343.844	1338.594	1332.689
25.0	1367.466	1345.812	1335.313	1330.064	1324.159
25.5	1358.936	1337.282	1326.127	1321.534	1314.972
26.0	1349.749	1328.096	1317.597	1313.004	1306.442
26.5	1341.219	1319.565	1308.410	1304.473	1297.912

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27.0	1332.033	1310.379	1299.224	1295.943	1288.725
27.5	1322.846	1301.192	1290.694	1287.413	1280.195
28.0	1313.660	1291.350	1280.851	1278.226	1271.008
28.5	1303.817	1281.507	1271.665	1269.696	1261.822
29.0	1293.975	1272.321	1262.478	1260.510	1252.636
29.5	1284.788	1262.478	1253.292	1250.667	1244.105
30.0	1274.946	1252.636	1244.105	1241.481	1234.919
30.5	1265.103	1242.793	1234.263	1232.294	1225.732
31.0	1254.604	1233.607	1224.420	1222.452	1216.546
31.5	1244.762	1223.764	1214.578	1212.609	1206.703
32.0	1234.263	1213.265	1204.735	1202.110	1196.861
32.5	1223.764	1203.423	1194.892	1192.268	1186.362
33.0	1213.265	1193.580	1185.050	1182.425	1175.863
33.5	1203.423	1183.081	1174.551	1171.926	1166.021
34.0	1192.268	1172.582	1164.708	1161.427	1155.522
34.5	1181.769	1162.084	1153.553	1150.929	1144.367
35.0	1171.270	1152.241	1143.055	1140.430	1133.212
35.5	1160.115	1141.086	1132.556	1129.931	1122.057
36.0	1148.960	1130.587	1122.057	1118.776	1111.558
36.5	1138.461	1120.089	1111.558	1108.277	1101.059
37.0	1127.306	1108.934	1100.403	1097.122	1089.905
37.5	1116.151	1097.779	1089.905	1085.967	1079.406
38.0	1104.340	1086.624	1078.750	1074.813	1068.251
38.5	1093.185	1075.469	1067.595	1064.314	1057.096
39.0	1082.687	1064.314	1056.440	1053.159	1046.597
39.5	1070.875	1053.159	1045.941	1042.004	1034.786
40.0	1059.721	1041.348	1034.786	1030.849	1024.287
40.5	1047.909	1030.193	1023.631	1019.694	1013.132
41.0	1036.754	1018.382	1012.476	1007.883	1001.321
41.5	1024.943	1007.227	1000.665	996.728	989.510
42.0	1013.788	995.416	989.510	985.573	978.355
42.5	1002.633	984.261	978.355	973.762	967.200
43.0	990.822	973.106	967.200	962.607	955.389
43.5	979.667	961.294	955.389	951.452	944.234
44.0	967.856	949.483	943.578	939.641	933.079
44.5	956.045	937.672	931.767	927.830	921.268
45.0	944.234	926.517	920.612	916.018	910.113
45.5	933.079	914.706	908.801	904.864	898.958
46.0	921.268	902.895	896.989	893.052	887.803
46.5	909.457	891.084	885.835	881.897	876.648
47.0	897.646	879.273	874.023	870.086	864.837
47.5	885.178	867.462	862.212	858.275	853.682
48.0	873.367	855.651	850.401	847.120	841.871
48.5	861.556	843.839	839.246	835.309	830.060
49.0	849.089	832.028	827.435	823.498	818.905
49.5	837.278	820.217	815.624	812.343	807.750
50.0	824.810	808.406	803.813	800.532	795.939
50.5	812.343	796.595	792.002	788.721	784.784
51.0	799.876	784.784	780.191	776.910	772.973
51.5	788.065	772.973	768.379	765.755	761.162
52.0	776.253	761.162	756.568	753.944	750.007
52.5	763.786	749.350	744.757	742.789	738.195
53.0	751.975	737.539	732.946	730.978	726.384
53.5	739.508	725.728	721.135	719.166	714.573
54.0	727.697	713.917	709.980	708.011	702.762
54.5	715.886	702.762	698.169	696.200	690.951

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55.0	704.074	691.607	687.014	685.045	679.796
55.5	692.919	679.796	675.203	673.234	668.641
56.0	680.452	667.985	663.392	662.079	656.830
56.5	668.641	656.830	651.909	650.465	645.281
57.0	657.486	645.019	640.294	638.719	633.798
57.5	645.937	633.601	628.746	627.302	622.184
58.0	634.389	622.315	617.131	615.819	610.701
58.5	622.774	610.963	605.714	604.533	599.677
59.0	611.357	599.546	594.231	593.115	588.457
59.5	600.268	587.997	582.551	581.764	577.367
60.0	588.916	576.514	571.002	570.346	566.081
60.5	577.695	565.294	559.847	558.863	554.664
61.0	566.672	554.073	548.758	547.643	543.509
61.5	554.861	542.984	537.734	536.488	532.485
62.0	543.246	531.566	526.317	525.398	521.199
62.5	531.369	521.002	515.556	514.834	510.503
63.0	519.952	511.684	507.288	506.960	503.417
63.5	508.403	501.514	498.036	497.314	493.639
64.0	501.448	491.605	488.456	487.012	482.813
64.5	490.621	481.041	477.629	476.317	472.379
65.0	478.482	469.755	466.933	465.686	461.881
65.5	466.080	458.337	455.778	455.188	451.316
66.0	454.138	447.182	444.886	444.623	440.489
66.5	442.327	435.765	433.796	433.796	430.122
67.0	430.647	424.413	422.838	423.035	419.689
67.5	419.164	413.258	411.815	412.208	408.927
68.0	407.549	402.103	400.791	401.316	397.904
68.5	395.870	390.751	389.702	390.423	387.077
69.0	383.796	379.334	378.547	378.940	375.856
69.5	372.050	368.113	367.195	367.654	364.833
70.0	360.436	356.762	356.105	356.302	353.809
70.5	349.019	345.344	344.885	345.082	342.720
71.0	337.339	333.992	333.861	334.124	331.565
71.5	325.659	322.641	322.903	323.100	320.869
72.0	314.307	311.223	311.748	312.011	310.108
72.5	302.955	300.003	300.856	301.118	299.543
73.0	291.735	289.045	290.226	290.554	289.176
73.5	280.842	278.218	279.596	280.186	278.677
74.0	270.081	267.391	269.097	269.556	268.572
74.5	259.320	256.761	258.664	259.123	258.401
75.0	248.493	246.196	248.362	248.821	248.231
75.5	237.797	235.632	238.125	238.716	238.060
76.0	226.971	225.461	228.020	228.677	228.152
76.5	216.734	215.422	217.981	218.703	218.243
77.0	206.760	205.317	208.138	208.795	208.073
77.5	196.458	195.474	198.296	198.821	198.099
78.0	186.419	185.632	188.453	189.240	188.519
78.5	176.445	176.051	178.742	179.660	179.070
79.0	166.865	166.471	169.227	170.343	169.883
79.5	157.285	157.088	159.844	161.025	160.631
80.0	147.836	147.902	150.461	152.101	151.576
80.5	138.321	138.912	141.537	143.111	142.718
81.0	129.201	130.119	132.678	134.319	134.056
81.5	120.408	121.392	124.017	125.657	125.460
82.0	112.206	112.862	115.552	117.258	117.061
82.5	104.004	104.594	107.219	108.925	108.794

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83.0	95.801	96.720	99.017	100.788	100.919
83.5	87.730	88.846	91.077	92.783	93.177
84.0	80.184	81.103	83.203	84.843	85.434
84.5	72.507	73.491	75.460	77.100	77.691
85.0	65.355	66.142	67.980	69.423	69.948
85.5	58.399	58.793	60.368	61.877	62.402
86.0	51.575	51.706	53.084	54.462	55.119
86.5	44.817	44.817	46.063	47.310	47.901
87.0	37.992	37.992	38.911	40.486	40.945
87.5	31.234	31.299	32.153	33.727	34.318
88.0	24.803	24.738	25.591	27.297	27.953
88.5	18.635	18.242	19.357	20.866	21.785
89.0	12.074	11.877	13.386	14.830	15.814
89.5	5.578	6.627	8.005	9.121	9.449
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.025	2.121	1.958	1.904	2.067
91.0	8.866	4.678	3.808	3.753	3.699
91.5	14.251	9.519	5.657	5.603	5.548
92.0	19.691	15.829	8.159	7.289	7.289
92.5	25.348	22.356	12.620	9.138	8.975
93.0	31.222	28.612	17.841	12.130	10.933
93.5	37.151	34.595	23.444	16.373	14.251
94.0	42.972	40.470	29.645	21.431	18.766
94.5	48.955	46.344	36.118	26.653	23.662
95.0	54.830	52.382	42.482	31.984	28.503
95.5	60.704	58.039	48.683	37.478	33.616
96.0	66.307	63.805	54.775	43.189	38.838
96.5	71.964	69.571	60.867	49.009	44.223
97.0	77.458	75.228	66.905	54.830	49.934
97.5	83.115	80.939	72.997	60.759	55.646
98.0	88.717	86.542	78.926	66.633	61.411
98.5	94.320	92.199	84.638	72.617	67.177
99.0	100.031	98.019	90.458	78.328	72.997
99.5	105.797	103.785	96.333	84.040	78.709
100.0	111.454	109.605	102.207	89.914	84.311
100.5	117.329	115.425	108.082	96.006	89.969
101.0	123.367	121.245	114.065	102.153	96.115
101.5	129.513	127.174	120.157	108.299	102.479
102.0	135.497	133.321	126.250	114.446	108.789
102.5	141.752	139.413	132.559	120.593	115.044
103.0	148.171	145.723	138.815	126.685	121.409
103.5	154.589	152.141	145.451	133.212	127.718
104.0	161.171	158.614	152.196	139.957	134.300
104.5	167.970	165.359	158.941	146.865	140.882
105.0	174.933	172.267	165.631	153.664	147.572
105.5	182.058	179.284	172.539	160.518	154.208
106.0	189.293	186.356	179.556	167.481	160.845
106.5	196.582	193.644	186.900	174.498	167.535
107.0	204.360	201.260	194.732	181.950	174.824
107.5	212.411	209.092	202.674	189.837	182.711
108.0	220.407	217.143	210.779	198.377	190.816
108.5	228.838	225.356	218.883	206.917	199.193
109.0	237.486	233.733	227.206	215.565	207.678
109.5	246.353	242.436	235.963	224.160	216.273
110.0	255.817	251.357	244.938	232.972	225.248
110.5	265.500	260.495	254.131	242.436	234.549

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111.0	275.291	270.069	263.650	252.282	243.905
111.5	285.299	279.914	273.332	262.290	253.533
112.0	295.689	290.031	282.960	272.299	262.725
112.5	306.132	300.421	292.697	282.253	272.462
113.0	317.066	311.137	302.977	292.534	282.634
113.5	328.325	322.342	313.856	303.630	293.567
114.0	339.748	333.765	325.388	315.434	305.697
114.5	351.552	345.568	337.137	327.727	318.589
115.0	363.518	357.698	349.322	340.129	331.643
115.5	376.029	369.937	361.832	352.476	344.535
116.0	388.649	382.665	374.778	365.477	357.644
116.5	401.975	395.720	388.159	378.803	371.623
117.0	415.846	409.047	401.649	393.163	386.038
117.5	426.072	419.436	413.997	406.381	400.670
118.0	439.127	431.566	426.670	420.034	413.670
118.5	454.303	446.035	439.616	432.708	425.365
119.0	469.153	460.286	454.303	447.068	438.365
119.5	484.165	475.462	469.860	461.646	452.943
120.0	499.668	491.182	485.471	477.584	468.337
120.5	515.062	507.120	501.572	494.500	484.764
121.0	531.217	523.384	517.781	511.363	502.224
121.5	547.209	539.485	533.936	528.443	519.304
122.0	564.071	555.912	551.016	545.577	536.439
122.5	580.389	572.230	567.879	562.439	552.648
123.0	597.252	589.636	585.285	580.933	570.598
123.5	614.658	607.043	603.779	599.427	589.092
124.0	632.064	624.993	621.729	617.922	608.131
124.5	649.470	642.399	639.679	635.872	626.625
125.0	666.877	659.805	657.086	653.822	644.575
125.5	684.827	677.756	675.036	671.772	661.981
126.0	702.233	695.162	693.530	689.722	679.387
126.5	719.639	712.568	712.024	708.760	697.881
127.0	737.589	730.518	730.518	727.798	717.464
127.5	755.540	747.924	747.924	746.293	737.046
128.0	772.946	765.331	765.875	764.787	755.540
128.5	790.352	782.193	783.281	783.281	773.490
129.0	807.758	799.055	800.687	801.231	791.984
129.5	825.165	816.462	818.637	819.725	811.022
130.0	842.571	833.868	836.587	838.219	831.148
130.5	859.977	850.730	855.082	856.170	850.186
131.0	877.383	867.592	872.488	873.576	867.592
131.5	893.702	883.911	889.894	889.894	884.455
132.0	910.564	900.229	906.756	907.300	900.773
132.5	926.882	917.091	923.619	924.163	917.091
133.0	943.201	933.954	939.937	941.025	932.866
133.5	959.519	950.272	956.799	957.887	949.728
134.0	975.837	966.046	972.574	974.206	966.046
134.5	990.524	981.821	987.804	988.892	981.821
135.0	1005.210	997.051	1002.491	1003.579	995.963
135.5	1019.353	1012.826	1017.177	1017.721	1010.106
136.0	1033.496	1027.512	1030.776	1032.408	1024.792
136.5	1048.182	1041.655	1044.374	1047.094	1040.023
137.0	1061.781	1055.797	1058.517	1060.693	1054.166
137.5	1075.379	1068.852	1071.572	1073.204	1066.676
138.0	1088.434	1081.907	1084.082	1085.170	1078.643
138.5	1101.489	1094.417	1096.593	1097.137	1090.066

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1113.999	1106.928	1109.104	1109.104	1101.489
139.5	1126.510	1119.439	1121.071	1120.527	1112.368
140.0	1138.477	1130.862	1133.038	1132.494	1124.334
140.5	1149.900	1141.741	1143.916	1143.372	1134.669
141.0	1161.323	1153.164	1154.795	1153.707	1145.004
141.5	1171.658	1163.498	1165.674	1164.042	1154.251
142.0	1182.537	1174.377	1176.009	1173.833	1164.042
142.5	1192.871	1184.712	1186.344	1184.168	1173.289
143.0	1203.206	1194.503	1196.135	1193.959	1183.080
143.5	1212.997	1204.838	1205.926	1203.750	1192.328
144.0	1222.245	1214.629	1215.173	1212.454	1201.031
144.5	1231.492	1223.876	1224.420	1221.157	1209.734
145.0	1240.195	1233.123	1233.123	1229.316	1217.893
145.5	1249.442	1242.370	1241.827	1238.563	1226.596
146.0	1258.145	1251.074	1250.530	1246.722	1235.299
146.5	1266.848	1259.777	1258.689	1255.425	1244.002
147.0	1275.007	1268.480	1266.304	1264.128	1252.705
147.5	1283.166	1276.639	1274.463	1272.287	1260.865
148.0	1291.326	1284.798	1281.535	1279.903	1269.568
148.5	1299.485	1292.957	1288.606	1287.518	1278.271
149.0	1307.100	1301.117	1295.677	1295.133	1286.974
149.5	1314.715	1308.732	1302.204	1302.748	1295.133
150.0	1322.330	1316.347	1309.276	1309.820	1302.748
150.5	1329.946	1323.962	1315.803	1316.347	1310.364
151.0	1337.017	1331.034	1322.330	1322.874	1317.435
151.5	1344.632	1338.105	1329.402	1329.402	1323.962
152.0	1351.703	1345.176	1335.929	1335.385	1330.490
152.5	1358.775	1351.703	1342.456	1341.912	1336.473
153.0	1365.846	1358.231	1348.984	1348.440	1341.912
153.5	1372.373	1364.758	1355.511	1354.967	1346.808
154.0	1378.901	1371.285	1362.582	1361.494	1352.247
154.5	1385.972	1377.269	1369.110	1367.478	1357.687
155.0	1392.499	1383.252	1375.637	1374.005	1363.670
155.5	1398.483	1388.692	1382.164	1380.533	1369.654
156.0	1404.466	1394.675	1389.236	1386.516	1375.637
156.5	1410.450	1400.658	1395.763	1393.043	1381.620
157.0	1416.433	1406.642	1402.290	1399.571	1387.604
157.5	1421.872	1412.081	1408.274	1405.554	1393.587
158.0	1427.312	1417.521	1414.257	1411.537	1399.571
158.5	1433.295	1423.504	1420.241	1417.521	1406.098
159.0	1438.191	1428.944	1425.680	1423.504	1412.081
159.5	1443.630	1434.383	1431.119	1429.488	1418.065
160.0	1448.526	1439.279	1436.559	1434.927	1424.048
160.5	1453.421	1444.174	1441.454	1440.366	1430.032
161.0	1458.317	1449.070	1446.350	1445.806	1436.015
161.5	1463.212	1454.509	1450.701	1451.245	1441.998
162.0	1468.652	1459.405	1455.053	1456.685	1447.438
162.5	1473.547	1464.300	1459.405	1461.580	1452.333
163.0	1478.443	1469.196	1463.756	1466.476	1457.229
163.5	1483.338	1473.547	1468.108	1471.371	1461.580
164.0	1488.234	1477.899	1471.915	1475.723	1465.932
164.5	1492.041	1482.250	1475.723	1480.074	1470.283
165.0	1496.393	1486.602	1479.531	1484.426	1474.091
165.5	1500.744	1490.409	1483.338	1488.234	1477.899
166.0	1505.096	1494.217	1487.146	1492.041	1481.162
166.5	1509.448	1498.025	1490.953	1495.305	1484.970

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1513.255	1501.288	1494.217	1498.569	1488.234
167.5	1517.063	1504.552	1498.025	1501.832	1492.041
168.0	1520.870	1507.816	1501.288	1505.096	1495.305
168.5	1524.678	1511.079	1504.552	1508.360	1499.113
169.0	1527.942	1513.799	1507.816	1511.079	1502.376
169.5	1530.661	1516.519	1510.535	1513.799	1505.640
170.0	1533.381	1519.239	1513.255	1516.519	1509.448
170.5	1536.101	1521.958	1515.431	1519.239	1512.167
171.0	1538.821	1524.134	1517.607	1521.958	1514.887
171.5	1540.996	1526.310	1519.782	1524.678	1517.607
172.0	1543.172	1528.486	1521.414	1526.854	1519.782
172.5	1545.348	1530.661	1523.046	1528.486	1521.414
173.0	1547.524	1532.837	1524.678	1530.661	1522.502
173.5	1549.155	1534.469	1526.310	1531.749	1523.590
174.0	1550.787	1536.101	1527.942	1532.837	1524.134
174.5	1551.875	1537.189	1529.030	1533.925	1524.678
175.0	1552.963	1538.821	1530.117	1534.469	1524.678
175.5	1554.051	1539.908	1531.749	1535.013	1525.222
176.0	1555.139	1540.996	1532.837	1535.013	1525.222
176.5	1555.683	1542.084	1533.381	1535.557	1525.222
177.0	1556.227	1543.172	1534.469	1535.557	1524.678
177.5	1557.315	1544.260	1535.557	1535.557	1524.678
178.0	1557.859	1544.260	1536.101	1535.557	1525.222
178.5	1557.859	1544.804	1536.645	1535.557	1525.222
179.0	1558.403	1545.348	1536.645	1535.557	1525.222
179.5	1558.947	1545.348	1537.189	1535.557	1525.222
180.0	1539.908	1539.908	1539.908	1539.908	1539.908



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	565.35	N.A.	7.10
0-30	1181.96	N.A.	14.90
0-40	1898.84	N.A.	24.00
0-60	3226.55	N.A.	40.70
0-80	3951.28	N.A.	49.90
0-90	4027.85	N.A.	50.80
10-90	3880.28	N.A.	49.00
20-40	1333.48	N.A.	16.80
20-50	2045.13	N.A.	25.80
40-70	1789.14	N.A.	22.60
60-80	724.72	N.A.	9.10
70-80	263.30	N.A.	3.30
80-90	76.58	N.A.	1.00
90-110	222.85	N.A.	2.80
90-120	572.08	N.A.	7.20
90-130	1158.94	N.A.	14.60
90-150	2695.61	N.A.	34.00
90-180	3895.86	N.A.	49.20
110-180	3673.01	N.A.	46.40
0-180	7923.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.57
10-20	417.79
20-30	616.61
30-40	716.88
40-50	711.64
50-60	616.07
60-70	461.42
70-80	263.30
80-90	76.58
90-100	48.07
100-110	174.79
110-120	349.23
120-130	586.86
130-140	767.37
140-150	769.29
150-160	635.47
160-170	418.75
170-180	146.03

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-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-L12-927U-L12-927D-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	18.9	19.7	20.9		17.8	18.6	18.8	19.6	20.8
	4H	18.5	19.3	19.5	20.2	21.5		18.4	19.2	19.4	20.2	21.4
	6H	18.9	19.6	19.9	20.6	21.9		18.9	19.6	19.9	20.6	21.9
	8H	19.1	19.7	20.1	20.7	22.0		19.0	19.7	20.0	20.7	22.0
	12H	19.2	19.8	20.2	20.8	22.1		19.1	19.8	20.1	20.8	22.1

4H	2H	16.7	17.4	17.6	18.4	19.7		16.6	17.3	17.6	18.3	19.6
	3H	18.6	19.3	19.6	20.3	21.6		18.6	19.2	19.6	20.2	21.5
	4H	19.4	19.9	20.4	20.9	22.3		19.3	19.9	20.3	20.9	22.2
	6H	19.9	20.4	20.9	21.4	22.8		19.9	20.4	20.9	21.4	22.7
	8H	20.1	20.6	21.1	21.6	22.9		20.1	20.6	21.1	21.6	22.9
	12H	20.2	20.6	21.2	21.7	23.0		20.2	20.7	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	23.1
	8H	20.6	20.9	21.6	21.9	23.3		20.6	20.9	21.6	22.0	23.3
	12H	20.8	21.1	21.8	22.1	23.5		20.8	21.1	21.8	22.1	23.5

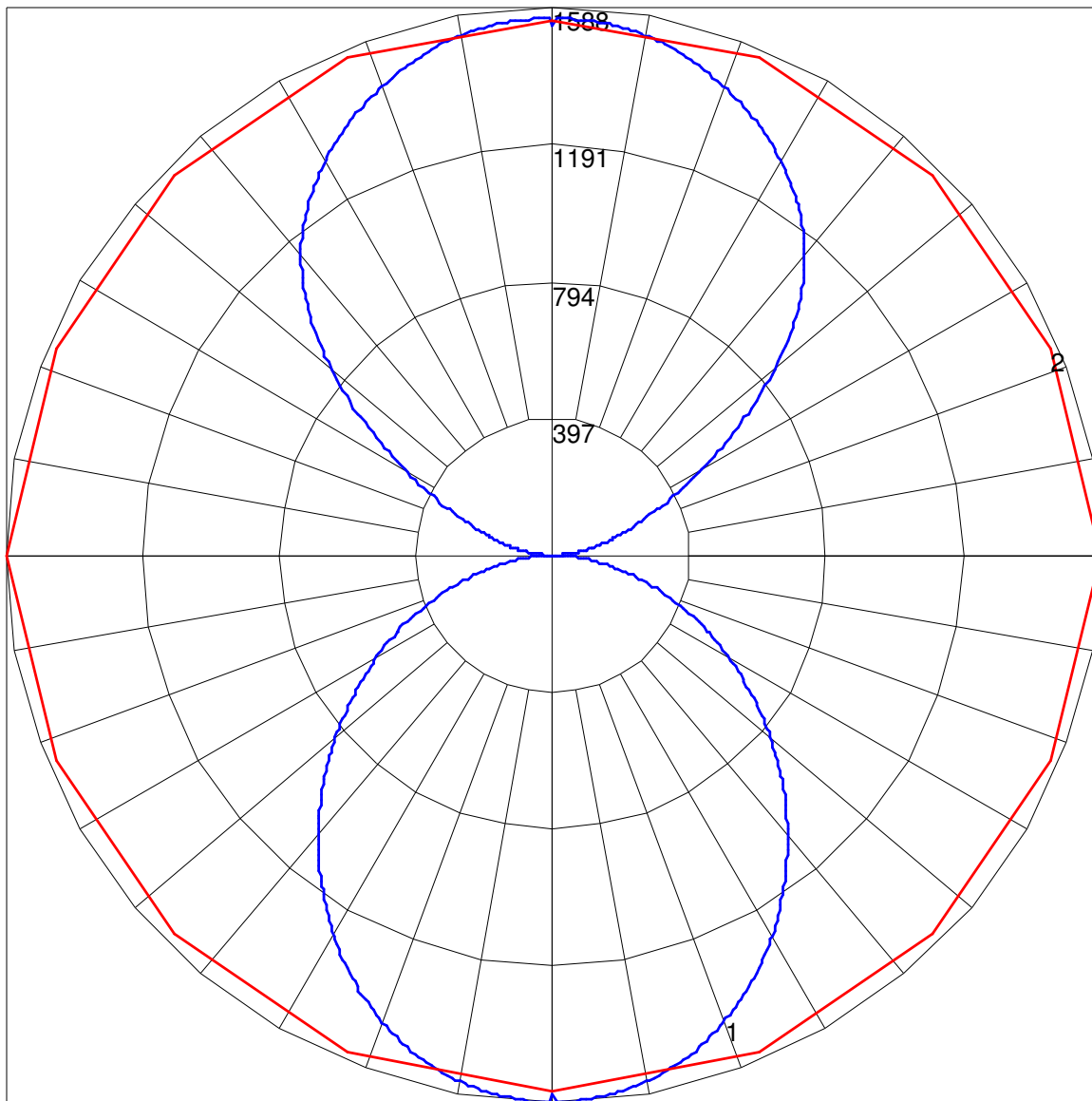
12H	4H	19.6	20.0	20.6	21.1	22.4		19.6	20.0	20.6	21.0	22.4
	6H	20.4	20.7	21.4	21.7	23.1		20.3	20.7	21.4	21.7	23.1
	8H	20.6	20.9	21.7	22.0	23.4		20.7	21.0	21.7	22.0	23.4

Maximum UGR = 23.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-927U-L12-927D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1587.94 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.)