

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-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] MX4WUDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_

[LUMINAIRE] White linear extruded luminaire with up and downlight

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

[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	7762
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	78.9
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	10431	10170	10054
55	9589	9356	9258
65	8844	8631	8537
75	7500	7496	7492
85	5858	6093	6269

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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>	1513.569	1513.569	1513.569	1513.569	1513.569
<b>0.5</b>	1536.425	1514.839	1507.220	1510.395	1505.315
<b>1.0</b>	1536.425	1514.204	1507.220	1510.395	1505.315
<b>1.5</b>	1535.790	1513.569	1506.585	1510.395	1504.681
<b>2.0</b>	1535.155	1512.934	1505.950	1509.760	1504.681
<b>2.5</b>	1534.520	1512.299	1504.681	1509.125	1504.046
<b>3.0</b>	1533.250	1511.029	1504.046	1508.490	1502.776
<b>3.5</b>	1531.981	1509.760	1502.776	1507.220	1501.506
<b>4.0</b>	1530.711	1508.490	1501.506	1505.950	1500.236
<b>4.5</b>	1529.441	1506.585	1500.236	1504.681	1498.332
<b>5.0</b>	1528.171	1505.315	1498.332	1502.776	1496.427
<b>5.5</b>	1526.267	1503.411	1496.427	1500.871	1494.522
<b>6.0</b>	1524.362	1500.871	1494.522	1498.967	1491.983
<b>6.5</b>	1521.823	1498.967	1491.983	1496.427	1490.078
<b>7.0</b>	1519.918	1496.427	1490.078	1493.888	1487.539
<b>7.5</b>	1518.013	1493.888	1487.539	1491.348	1485.634
<b>8.0</b>	1514.839	1491.348	1484.364	1488.808	1483.094
<b>8.5</b>	1512.299	1488.174	1481.190	1485.634	1479.920
<b>9.0</b>	1509.125	1485.634	1478.650	1482.460	1476.746
<b>9.5</b>	1505.950	1482.460	1474.841	1478.650	1473.571
<b>10.0</b>	1502.776	1479.285	1471.666	1475.476	1469.762
<b>10.5</b>	1498.967	1475.476	1467.857	1471.666	1466.587
<b>11.0</b>	1495.792	1471.666	1464.048	1467.857	1462.143
<b>11.5</b>	1491.348	1467.857	1460.239	1464.048	1458.334
<b>12.0</b>	1487.539	1464.048	1456.429	1459.604	1453.890
<b>12.5</b>	1483.729	1459.604	1451.985	1455.159	1449.445
<b>13.0</b>	1479.285	1455.794	1447.541	1450.715	1445.001
<b>13.5</b>	1474.841	1450.715	1443.097	1445.636	1440.557
<b>14.0</b>	1470.397	1446.271	1438.018	1441.192	1436.113
<b>14.5</b>	1465.953	1441.827	1432.938	1436.113	1431.034
<b>15.0</b>	1461.508	1436.748	1427.859	1431.034	1425.955
<b>15.5</b>	1455.794	1432.304	1422.780	1425.320	1420.241
<b>16.0</b>	1449.445	1427.224	1417.066	1420.241	1415.162
<b>16.5</b>	1443.097	1421.510	1411.352	1414.527	1409.448
<b>17.0</b>	1437.383	1415.797	1405.638	1408.813	1403.734
<b>17.5</b>	1431.034	1409.448	1399.289	1402.464	1397.385
<b>18.0</b>	1424.685	1403.099	1392.941	1396.115	1391.036
<b>18.5</b>	1418.336	1396.750	1386.592	1389.131	1384.687
<b>19.0</b>	1411.987	1390.401	1380.878	1382.782	1377.068
<b>19.5</b>	1405.003	1384.052	1374.529	1375.164	1369.450
<b>20.0</b>	1398.655	1377.068	1368.815	1368.180	1361.831
<b>20.5</b>	1391.671	1370.720	1362.466	1360.561	1354.213
<b>21.0</b>	1384.687	1363.736	1355.482	1352.943	1345.959
<b>21.5</b>	1377.068	1356.752	1347.864	1345.324	1337.705
<b>22.0</b>	1370.085	1349.133	1339.610	1337.071	1330.087
<b>22.5</b>	1362.466	1341.515	1331.992	1328.817	1321.833
<b>23.0</b>	1354.847	1333.896	1324.373	1319.929	1313.580
<b>23.5</b>	1347.229	1326.278	1316.119	1311.675	1305.961
<b>24.0</b>	1338.975	1318.659	1308.501	1303.422	1297.708
<b>24.5</b>	1330.722	1310.405	1300.247	1295.168	1289.454
<b>25.0</b>	1323.103	1302.152	1291.994	1286.915	1281.201
<b>25.5</b>	1314.850	1293.898	1283.105	1278.661	1272.312
<b>26.0</b>	1305.961	1285.010	1274.852	1270.408	1264.059
<b>26.5</b>	1297.708	1276.756	1265.963	1262.154	1255.805

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27.0	1288.819	1267.868	1257.075	1253.900	1246.917
27.5	1279.931	1258.980	1248.821	1245.647	1238.663
28.0	1271.042	1249.456	1239.298	1236.759	1229.775
28.5	1261.519	1239.933	1230.410	1228.505	1220.886
29.0	1251.996	1231.045	1221.521	1219.617	1211.998
29.5	1243.107	1221.521	1212.633	1210.093	1203.744
30.0	1233.584	1211.998	1203.744	1201.205	1194.856
30.5	1224.061	1202.475	1194.221	1192.317	1185.968
31.0	1213.903	1193.586	1184.698	1182.793	1177.079
31.5	1204.379	1184.063	1175.175	1173.270	1167.556
32.0	1194.221	1173.905	1165.651	1163.112	1158.033
32.5	1184.063	1164.382	1156.128	1153.588	1147.874
33.0	1173.905	1154.858	1146.605	1144.065	1137.716
33.5	1164.382	1144.700	1136.447	1133.907	1128.193
34.0	1153.588	1134.542	1126.923	1123.749	1118.035
34.5	1143.430	1124.384	1116.130	1113.591	1107.242
35.0	1133.272	1114.860	1105.972	1103.432	1096.449
35.5	1122.479	1104.067	1095.814	1093.274	1085.656
36.0	1111.686	1093.909	1085.656	1082.481	1075.497
36.5	1101.528	1083.751	1075.497	1072.323	1065.339
37.0	1090.735	1072.958	1064.704	1061.530	1054.546
37.5	1079.942	1062.165	1054.546	1050.737	1044.388
38.0	1068.514	1051.372	1043.753	1039.944	1033.595
38.5	1057.721	1040.579	1032.960	1029.786	1022.802
39.0	1047.562	1029.786	1022.167	1018.993	1012.644
39.5	1036.134	1018.993	1012.009	1008.199	1001.216
40.0	1025.341	1007.565	1001.216	997.406	991.058
40.5	1013.913	996.772	990.423	986.613	980.264
41.0	1003.120	985.344	979.630	975.185	968.837
41.5	991.692	974.551	968.202	964.392	957.409
42.0	980.899	963.123	957.409	953.599	946.616
42.5	970.106	952.329	946.616	942.171	935.822
43.0	958.678	941.536	935.822	931.378	924.394
43.5	947.885	930.108	924.394	920.585	913.601
44.0	936.457	918.681	912.967	909.157	902.808
44.5	925.029	907.253	901.539	897.729	891.380
45.0	913.601	896.459	890.746	886.301	880.587
45.5	902.808	885.032	879.318	875.508	869.794
46.0	891.380	873.604	867.890	864.080	859.001
46.5	879.952	862.176	857.097	853.287	848.208
47.0	868.524	850.748	845.669	841.859	836.780
47.5	856.462	839.320	834.241	830.431	825.987
48.0	845.034	827.892	822.813	819.638	814.559
48.5	833.606	816.464	812.020	808.210	803.131
49.0	821.543	805.036	800.592	796.782	792.338
49.5	810.115	793.608	789.164	785.989	781.545
50.0	798.052	782.180	777.736	774.561	770.117
50.5	785.989	770.752	766.308	763.133	759.324
51.0	773.926	759.324	754.880	751.705	747.896
51.5	762.498	747.896	743.452	740.912	736.468
52.0	751.071	736.468	732.024	729.484	725.675
52.5	739.008	725.040	720.596	718.691	714.247
53.0	727.580	713.612	709.168	707.263	702.819
53.5	715.517	702.184	697.740	695.835	691.391
54.0	704.089	690.756	686.947	685.042	679.963
54.5	692.661	679.963	675.519	673.614	668.535

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55.0	681.233	669.170	664.726	662.821	657.742
55.5	670.440	657.742	653.298	651.393	646.949
56.0	658.377	646.314	641.870	640.600	635.521
56.5	646.949	635.521	630.760	629.363	624.347
57.0	636.156	624.093	619.522	617.998	613.237
57.5	624.982	613.046	608.348	606.951	601.999
58.0	613.808	602.126	597.111	595.841	590.889
58.5	602.571	591.143	586.064	584.921	580.223
59.0	591.524	580.096	574.953	573.874	569.366
59.5	580.794	568.922	563.652	562.890	558.636
60.0	569.810	557.811	552.478	551.843	547.716
60.5	558.954	546.955	541.685	540.733	536.669
61.0	548.288	536.098	530.955	529.876	525.876
61.5	536.860	525.368	520.289	519.083	515.210
62.0	525.622	514.321	509.242	508.353	504.290
62.5	514.131	504.100	498.830	498.132	493.942
63.0	503.084	495.084	490.831	490.513	487.085
63.5	491.910	485.244	481.879	481.180	477.625
64.0	485.180	475.657	472.609	471.213	467.149
64.5	474.705	465.435	462.134	460.864	457.055
65.0	462.959	454.515	451.785	450.579	446.896
65.5	450.960	443.468	440.992	440.421	436.675
66.0	439.405	432.675	430.453	430.199	426.199
66.5	427.977	421.628	419.723	419.723	416.168
67.0	416.676	410.644	409.121	409.311	406.073
67.5	405.565	399.851	398.455	398.836	395.661
68.0	394.328	389.058	387.789	388.296	384.995
68.5	383.027	378.075	377.059	377.757	374.519
69.0	371.345	367.028	366.266	366.647	363.663
69.5	359.981	356.171	355.282	355.727	352.997
70.0	348.743	345.188	344.553	344.743	342.331
70.5	337.696	334.141	333.696	333.887	331.601
71.0	326.395	323.157	323.030	323.284	320.808
71.5	315.094	312.174	312.428	312.618	310.459
72.0	304.111	301.127	301.634	301.888	300.047
72.5	293.127	290.270	291.095	291.349	289.826
73.0	282.270	279.667	280.810	281.128	279.794
73.5	271.731	269.192	270.525	271.096	269.636
74.0	261.319	258.716	260.367	260.811	259.859
74.5	250.907	248.431	250.272	250.717	250.018
75.0	240.431	238.209	240.304	240.749	240.177
75.5	230.083	227.988	230.400	230.972	230.337
76.0	219.607	218.147	220.623	221.258	220.750
76.5	209.703	208.433	210.909	211.608	211.163
77.0	200.053	198.656	201.386	202.021	201.322
77.5	190.085	189.133	191.863	192.371	191.672
78.0	180.371	179.609	182.339	183.101	182.403
78.5	170.721	170.340	172.943	173.832	173.260
79.0	161.452	161.071	163.737	164.816	164.372
79.5	152.182	151.992	154.658	155.801	155.420
80.0	143.040	143.103	145.579	147.167	146.659
80.5	133.834	134.405	136.945	138.469	138.088
81.0	125.009	125.898	128.374	129.961	129.707
81.5	116.502	117.454	119.994	121.581	121.390
82.0	108.566	109.200	111.803	113.454	113.264
82.5	100.629	101.201	103.740	105.391	105.264

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83.0	92.693	93.582	95.804	97.519	97.646
83.5	84.884	85.964	88.122	89.773	90.154
84.0	77.583	78.472	80.504	82.091	82.662
84.5	70.155	71.107	73.012	74.599	75.171
85.0	63.235	63.997	65.774	67.171	67.679
85.5	56.505	56.886	58.410	59.870	60.378
86.0	49.902	50.029	51.362	52.696	53.330
86.5	43.363	43.363	44.569	45.775	46.347
87.0	36.760	36.760	37.649	39.172	39.617
87.5	30.221	30.284	31.109	32.633	33.205
88.0	23.999	23.935	24.761	26.411	27.046
88.5	18.031	17.650	18.729	20.189	21.078
89.0	11.682	11.491	12.952	14.348	15.301
89.5	5.397	6.412	7.746	8.825	9.142
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.993	2.105	1.943	1.889	2.051
91.0	8.796	4.641	3.778	3.724	3.670
91.5	14.139	9.444	5.612	5.558	5.504
92.0	19.535	15.704	8.095	7.231	7.231
92.5	25.148	22.180	12.520	9.066	8.904
93.0	30.976	28.386	17.701	12.034	10.847
93.5	36.858	34.322	23.259	16.244	14.139
94.0	42.633	40.150	29.411	21.262	18.618
94.5	48.569	45.978	35.833	26.443	23.475
95.0	54.397	51.969	42.147	31.732	28.278
95.5	60.225	57.581	48.299	37.182	33.351
96.0	65.784	63.301	54.343	42.848	38.531
96.5	71.396	69.022	60.387	48.623	43.874
97.0	76.847	74.634	66.377	54.397	49.540
97.5	82.459	80.300	72.421	60.279	55.207
98.0	88.017	85.859	78.304	66.108	60.927
98.5	93.576	91.471	83.970	72.044	66.647
99.0	99.242	97.246	89.744	77.710	72.421
99.5	104.963	102.966	95.573	83.376	78.088
100.0	110.575	108.740	101.401	89.205	83.646
100.5	116.403	114.514	107.229	95.249	89.259
101.0	122.393	120.289	113.165	101.347	95.357
101.5	128.491	126.171	119.209	107.445	101.671
102.0	134.428	132.269	125.254	113.543	107.931
102.5	140.634	138.313	131.514	119.641	114.137
103.0	147.002	144.573	137.720	125.685	120.451
103.5	153.369	150.941	144.303	132.161	126.711
104.0	159.899	157.363	150.995	138.853	133.240
104.5	166.645	164.055	157.687	145.706	139.770
105.0	173.553	170.908	164.324	152.452	146.408
105.5	180.622	177.870	171.178	159.252	152.992
106.0	187.799	184.885	178.140	166.159	159.576
106.5	195.031	192.117	185.425	173.121	166.213
107.0	202.748	199.672	193.196	180.514	173.445
107.5	210.735	207.443	201.075	188.339	181.270
108.0	218.668	215.430	209.116	196.812	189.310
108.5	227.032	223.578	217.157	205.284	197.621
109.0	235.613	231.889	225.413	213.865	206.040
109.5	244.409	240.524	234.102	222.391	214.566
110.0	253.799	249.374	243.006	231.134	223.470
110.5	263.405	258.440	252.126	240.524	232.699

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111.0	273.119	267.938	261.570	250.291	241.981
111.5	283.048	277.706	271.176	260.221	251.532
112.0	293.356	287.743	280.728	270.150	260.653
112.5	303.717	298.051	290.387	280.026	270.312
113.0	314.564	308.682	300.587	290.226	280.404
113.5	325.735	319.799	311.380	301.235	291.251
114.0	337.067	331.131	322.821	312.945	303.285
114.5	348.778	342.842	334.477	325.141	316.075
115.0	360.650	354.876	346.565	337.445	329.027
115.5	373.062	367.018	358.977	349.695	341.816
116.0	385.582	379.646	371.821	362.593	354.822
116.5	398.804	392.598	385.097	375.815	368.691
117.0	412.565	405.819	398.480	390.061	382.992
117.5	422.710	416.127	410.730	403.175	397.509
118.0	435.662	428.161	423.304	416.720	410.406
118.5	450.718	442.516	436.148	429.294	422.009
119.0	465.451	456.655	450.718	443.541	434.907
119.5	480.345	471.711	466.153	458.004	449.369
120.0	495.726	487.307	481.641	473.816	464.642
120.5	510.998	503.119	497.614	490.599	480.939
121.0	527.025	519.254	513.696	507.328	498.262
121.5	542.891	535.228	529.724	524.273	515.207
122.0	559.621	551.526	546.669	541.272	532.206
122.5	575.810	567.715	563.398	558.002	548.288
123.0	592.539	584.984	580.667	576.350	566.096
123.5	609.808	602.253	599.015	594.698	584.445
124.0	627.077	620.062	616.824	613.046	603.332
124.5	644.346	637.331	634.632	630.855	621.681
125.0	661.615	654.600	651.901	648.663	639.489
125.5	679.424	672.408	669.710	666.472	656.758
126.0	696.693	689.677	688.058	684.280	674.027
126.5	713.961	706.946	706.406	703.168	692.375
127.0	731.770	724.754	724.754	722.056	711.803
127.5	749.579	742.023	742.023	740.404	731.230
128.0	766.847	759.292	759.832	758.753	749.579
128.5	784.116	776.022	777.101	777.101	767.387
129.0	801.385	792.751	794.370	794.909	785.735
129.5	818.654	810.020	812.178	813.258	804.623
130.0	835.923	827.289	829.987	831.606	824.590
130.5	853.192	844.018	848.335	849.414	843.478
131.0	870.461	860.747	865.604	866.683	860.747
131.5	886.650	876.937	882.873	882.873	877.476
132.0	903.380	893.126	899.602	900.142	893.666
132.5	919.569	909.856	916.331	916.871	909.856
133.0	935.759	926.585	932.521	933.600	925.506
133.5	951.949	942.774	949.250	950.330	942.235
134.0	968.138	958.424	964.900	966.519	958.424
134.5	982.709	974.074	980.011	981.090	974.074
135.0	997.279	989.185	994.581	995.660	988.105
135.5	1011.310	1004.835	1009.152	1009.691	1002.136
136.0	1025.341	1019.405	1022.643	1024.262	1016.707
136.5	1039.912	1033.436	1036.134	1038.833	1031.817
137.0	1053.403	1047.467	1050.165	1052.324	1045.848
137.5	1066.895	1060.419	1063.117	1064.736	1058.260
138.0	1079.846	1073.371	1075.529	1076.608	1070.133
138.5	1092.798	1085.783	1087.941	1088.481	1081.465

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1105.210	1098.195	1100.353	1100.353	1092.798
139.5	1117.622	1110.607	1112.226	1111.686	1103.591
140.0	1129.495	1121.939	1124.098	1123.558	1115.464
140.5	1140.827	1132.732	1134.891	1134.351	1125.717
141.0	1152.160	1144.065	1145.684	1144.605	1135.970
141.5	1162.413	1154.319	1156.477	1154.858	1145.144
142.0	1173.206	1165.112	1166.731	1164.572	1154.858
142.5	1183.460	1175.365	1176.984	1174.825	1164.032
143.0	1193.713	1185.079	1186.698	1184.539	1173.746
143.5	1203.427	1195.332	1196.412	1194.253	1182.920
144.0	1212.601	1205.046	1205.586	1202.887	1191.555
144.5	1221.775	1214.220	1214.760	1211.522	1200.189
145.0	1230.410	1223.394	1223.394	1219.617	1208.284
145.5	1239.584	1232.568	1232.029	1228.791	1216.918
146.0	1248.218	1241.203	1240.663	1236.886	1225.553
146.5	1256.853	1249.837	1248.758	1245.520	1234.187
147.0	1264.948	1258.472	1256.313	1254.154	1242.822
147.5	1273.042	1266.566	1264.408	1262.249	1250.917
148.0	1281.137	1274.661	1271.423	1269.804	1259.551
148.5	1289.232	1282.756	1278.439	1277.360	1268.185
149.0	1296.787	1290.851	1285.454	1284.915	1276.820
149.5	1304.342	1298.406	1291.930	1292.470	1284.915
150.0	1311.897	1305.961	1298.946	1299.485	1292.470
150.5	1319.453	1313.516	1305.422	1305.961	1300.025
151.0	1326.468	1320.532	1311.897	1312.437	1307.040
151.5	1334.023	1327.547	1318.913	1318.913	1313.516
152.0	1341.039	1334.563	1325.389	1324.849	1319.992
152.5	1348.054	1341.039	1331.865	1331.325	1325.928
153.0	1355.070	1347.514	1338.340	1337.801	1331.325
153.5	1361.545	1353.990	1344.816	1344.277	1336.182
154.0	1368.021	1360.466	1351.832	1350.752	1341.578
154.5	1375.037	1366.402	1358.308	1356.689	1346.975
155.0	1381.513	1372.339	1364.783	1363.164	1352.911
155.5	1387.449	1377.735	1371.259	1369.640	1358.847
156.0	1393.385	1383.671	1378.275	1375.576	1364.783
156.5	1399.321	1389.607	1384.751	1382.052	1370.720
157.0	1405.257	1395.544	1391.226	1388.528	1376.656
157.5	1410.654	1400.940	1397.163	1394.464	1382.592
158.0	1416.050	1406.337	1403.099	1400.401	1388.528
158.5	1421.987	1412.273	1409.035	1406.337	1395.004
159.0	1426.844	1417.669	1414.431	1412.273	1400.940
159.5	1432.240	1423.066	1419.828	1418.209	1406.876
160.0	1437.097	1427.923	1425.225	1423.606	1412.813
160.5	1441.954	1432.780	1430.081	1429.002	1418.749
161.0	1446.811	1437.637	1434.938	1434.399	1424.685
161.5	1451.668	1443.033	1439.256	1439.795	1430.621
162.0	1457.064	1447.890	1443.573	1445.192	1436.018
162.5	1461.921	1452.747	1447.890	1450.049	1440.875
163.0	1466.778	1457.604	1452.207	1454.906	1445.731
163.5	1471.635	1461.921	1456.524	1459.762	1450.049
164.0	1476.492	1466.238	1460.302	1464.080	1454.366
164.5	1480.269	1470.555	1464.080	1468.397	1458.683
165.0	1484.586	1474.873	1467.857	1472.714	1462.461
165.5	1488.904	1478.650	1471.635	1476.492	1466.238
166.0	1493.221	1482.428	1475.412	1480.269	1469.476
166.5	1497.538	1486.205	1479.190	1483.507	1473.254

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1501.316	1489.443	1482.428	1486.745	1476.492
167.5	1505.093	1492.681	1486.205	1489.983	1480.269
168.0	1508.871	1495.919	1489.443	1493.221	1483.507
168.5	1512.648	1499.157	1492.681	1496.459	1487.285
169.0	1515.886	1501.855	1495.919	1499.157	1490.523
169.5	1518.585	1504.554	1498.617	1501.855	1493.761
170.0	1521.283	1507.252	1501.316	1504.554	1497.538
170.5	1523.981	1509.950	1503.474	1507.252	1500.236
171.0	1526.679	1512.109	1505.633	1509.950	1502.935
171.5	1528.838	1514.267	1507.792	1512.648	1505.633
172.0	1530.997	1516.426	1509.410	1514.807	1507.792
172.5	1533.155	1518.585	1511.029	1516.426	1509.410
173.0	1535.314	1520.743	1512.648	1518.585	1510.490
173.5	1536.933	1522.362	1514.267	1519.664	1511.569
174.0	1538.552	1523.981	1515.886	1520.743	1512.109
174.5	1539.631	1525.060	1516.966	1521.823	1512.648
175.0	1540.710	1526.679	1518.045	1522.362	1512.648
175.5	1541.790	1527.759	1519.664	1522.902	1513.188
176.0	1542.869	1528.838	1520.743	1522.902	1513.188
176.5	1543.409	1529.917	1521.283	1523.441	1513.188
177.0	1543.948	1530.997	1522.362	1523.441	1512.648
177.5	1545.028	1532.076	1523.441	1523.441	1512.648
178.0	1545.567	1532.076	1523.981	1523.441	1513.188
178.5	1545.567	1532.616	1524.521	1523.441	1513.188
179.0	1546.107	1533.155	1524.521	1523.441	1513.188
179.5	1546.647	1533.155	1525.060	1523.441	1513.188
180.0	1527.759	1527.759	1527.759	1527.759	1527.759



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	547.01	N.A.	7.00
0-30	1143.62	N.A.	14.70
0-40	1837.24	N.A.	23.70
0-60	3121.88	N.A.	40.20
0-80	3823.09	N.A.	49.30
0-90	3897.18	N.A.	50.20
10-90	3754.4	N.A.	48.40
20-40	1290.22	N.A.	16.60
20-50	1978.78	N.A.	25.50
40-70	1731.1	N.A.	22.30
60-80	701.21	N.A.	9.00
70-80	254.76	N.A.	3.30
80-90	74.09	N.A.	1.00
90-110	221.09	N.A.	2.80
90-120	567.57	N.A.	7.30
90-130	1149.8	N.A.	14.80
90-150	2674.34	N.A.	34.50
90-180	3865.13	N.A.	49.80
110-180	3644.03	N.A.	46.90
0-180	7762.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	142.78
10-20	404.23
20-30	596.60
30-40	693.62
40-50	688.56
50-60	596.08
60-70	446.45
70-80	254.76
80-90	74.09
90-100	47.69
100-110	173.41
110-120	346.47
120-130	582.23
130-140	761.32
140-150	763.22
150-160	630.46
160-170	415.45
170-180	144.88

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-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	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	54	43	36	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-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	15.9	16.8	16.9	17.8	19.0	15.8	16.7	16.8	17.7	18.9
	3H	17.7	18.5	18.7	19.4	20.7	17.6	18.4	18.6	19.4	20.6
	4H	18.3	19.0	19.3	20.0	21.3	18.2	19.0	19.2	19.9	21.2
	6H	18.7	19.4	19.7	20.4	21.7	18.7	19.4	19.7	20.4	21.7
	8H	18.9	19.5	19.9	20.5	21.8	18.8	19.5	19.8	20.5	21.8
	12H	18.9	19.6	19.9	20.6	21.9	18.9	19.5	19.9	20.5	21.9

### UGR Viewed Endwise

4H	2H	16.5	17.2	17.5	18.2	19.5	16.4	17.1	17.4	18.1	19.4
	3H	18.4	19.0	19.4	20.1	21.4	18.4	19.0	19.4	20.0	21.3
	4H	19.2	19.7	20.2	20.7	22.1	19.1	19.7	20.1	20.7	22.0
	6H	19.7	20.2	20.7	21.2	22.6	19.7	20.2	20.7	21.2	22.6
	8H	19.9	20.4	20.9	21.4	22.7	19.9	20.4	20.9	21.4	22.7
	12H	20.0	20.4	21.1	21.5	22.8	20.0	20.4	21.1	21.5	22.8

8H	4H	19.4	19.9	20.4	20.9	22.2	19.4	19.8	20.4	20.8	22.2
	6H	20.1	20.5	21.1	21.5	22.9	20.1	20.5	21.1	21.5	22.9
	8H	20.4	20.7	21.4	21.7	23.1	20.4	20.7	21.4	21.8	23.1
	12H	20.6	20.8	21.6	21.9	23.3	20.6	20.9	21.7	21.9	23.3

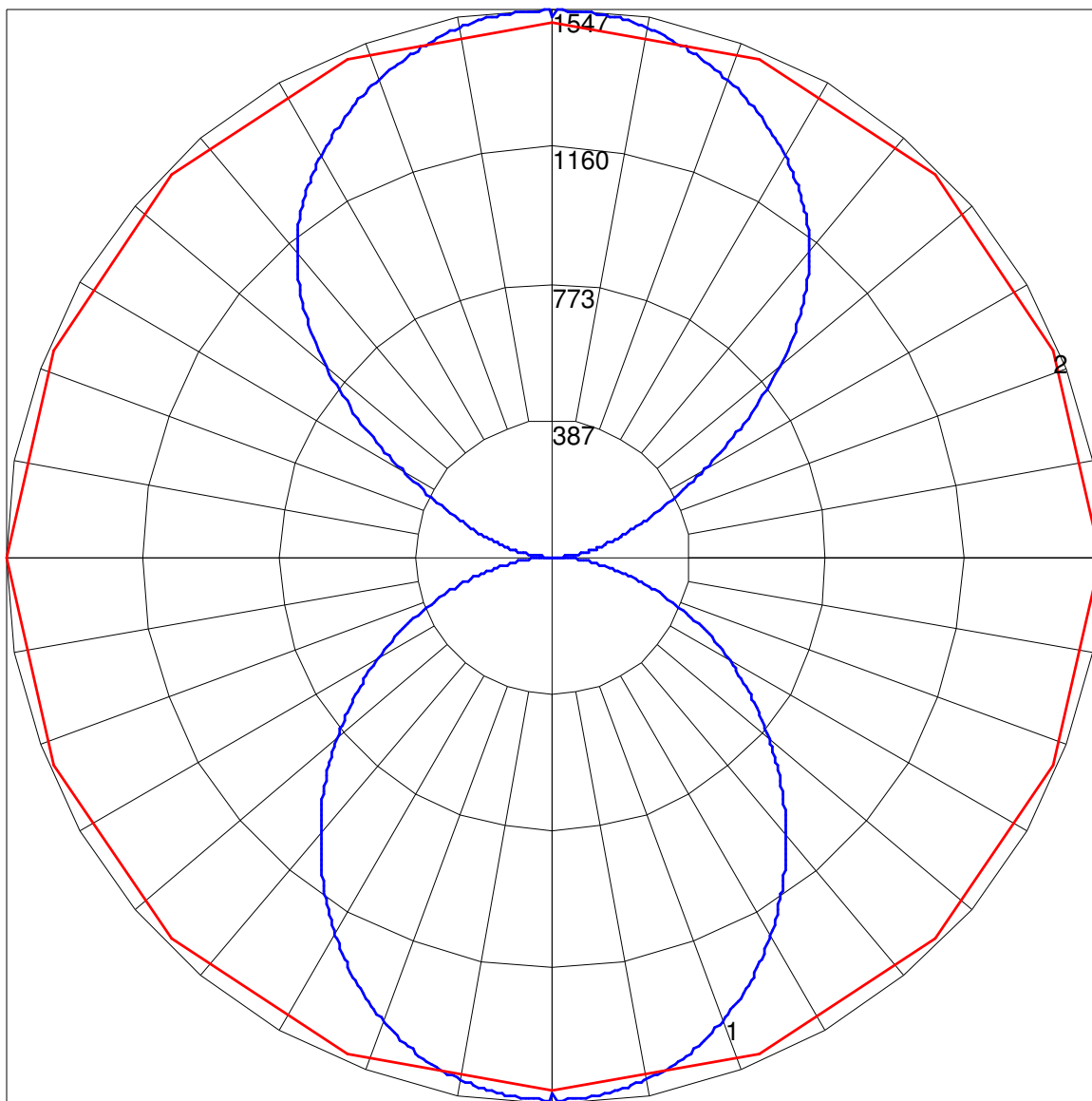
12H	4H	19.4	19.8	20.4	20.9	22.2	19.4	19.8	20.4	20.8	22.2
	6H	20.1	20.5	21.2	21.5	22.9	20.1	20.5	21.2	21.5	22.9
	8H	20.4	20.7	21.5	21.8	23.2	20.5	20.7	21.5	21.8	23.2

Maximum UGR = 23.3

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L15-930U-L8-930D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1546.647 Located At Horizontal Angle = 0, Vertical Angle = 179.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (179.5) (Through Max. Cd.)