



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13012869.08  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 12/05/2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2WUD-4-00-P8-835U-P8-835D-F-F-POE x  
 [LUMINAIRE] Formed White aluminum housing, lens enclosures  
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	50.4
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 w/Sides
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.33 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16092	6471	4886
55	13674	4500	3284
65	11315	2903	2066
75	8284	1552	1103
85	3903	480	363

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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	1398.918	1398.918	1398.918	1398.918	1398.918
0.5	1394.733	1407.288	1395.779	1396.825	1396.825
1.0	1394.733	1406.242	1395.779	1396.825	1396.825
1.5	1394.733	1406.242	1395.779	1396.825	1397.872
2.0	1393.686	1406.242	1394.733	1396.825	1397.872
2.5	1393.686	1405.196	1394.733	1397.872	1397.872
3.0	1392.640	1404.149	1393.686	1396.825	1396.825
3.5	1391.594	1403.103	1392.640	1396.825	1396.825
4.0	1389.501	1402.057	1391.594	1395.779	1395.779
4.5	1388.455	1401.010	1390.547	1394.733	1394.733
5.0	1387.408	1398.918	1388.455	1393.686	1392.640
5.5	1385.316	1397.872	1387.408	1391.594	1390.547
6.0	1383.223	1395.779	1385.316	1389.501	1388.455
6.5	1381.131	1393.686	1383.223	1386.362	1386.362
7.0	1379.038	1391.594	1381.131	1383.223	1383.223
7.5	1375.899	1389.501	1377.992	1380.084	1379.038
8.0	1373.806	1386.362	1375.899	1375.899	1374.853
8.5	1370.667	1383.223	1372.760	1371.714	1370.667
9.0	1367.529	1381.131	1369.621	1367.529	1366.482
9.5	1364.390	1377.992	1366.482	1363.343	1361.251
10.0	1361.251	1374.853	1362.297	1358.112	1354.973
10.5	1358.112	1371.714	1359.158	1353.926	1348.695
11.0	1354.973	1367.529	1353.926	1348.695	1343.463
11.5	1350.788	1363.343	1349.741	1342.417	1337.185
12.0	1346.602	1360.204	1344.510	1337.185	1329.861
12.5	1342.417	1356.019	1339.278	1330.908	1323.583
13.0	1338.232	1351.834	1334.047	1324.630	1316.259
13.5	1334.047	1346.602	1328.815	1318.352	1308.935
14.0	1328.815	1342.417	1322.537	1312.074	1302.657
14.5	1324.630	1337.185	1316.259	1304.750	1295.333
15.0	1319.398	1331.954	1309.981	1297.426	1286.963
15.5	1313.120	1326.722	1303.704	1290.101	1279.638
16.0	1307.889	1321.491	1297.426	1282.777	1271.268
16.5	1302.657	1315.213	1290.101	1274.407	1262.897
17.0	1297.426	1308.935	1282.777	1267.083	1255.573
17.5	1291.148	1303.704	1275.453	1258.712	1247.203
18.0	1284.870	1296.379	1268.129	1250.342	1238.832
18.5	1279.638	1290.101	1260.805	1243.017	1230.462
19.0	1273.361	1283.824	1252.434	1233.601	1221.045
19.5	1267.083	1276.499	1244.064	1225.230	1212.674
20.0	1259.758	1269.175	1235.693	1216.860	1203.258
20.5	1253.481	1262.897	1227.323	1207.443	1192.795
21.0	1247.203	1254.527	1218.952	1196.980	1184.424
21.5	1239.879	1247.203	1210.582	1187.563	1172.915
22.0	1232.554	1239.879	1202.211	1178.146	1163.498
22.5	1225.230	1231.508	1192.795	1167.683	1154.081
23.0	1217.906	1224.184	1184.424	1157.220	1142.572
23.5	1210.582	1215.813	1175.007	1146.757	1132.109
24.0	1202.211	1207.443	1165.590	1136.294	1120.599
24.5	1194.887	1199.072	1157.220	1125.831	1110.136
25.0	1185.470	1190.702	1146.757	1114.321	1098.627
25.5	1177.100	1182.331	1137.340	1103.858	1088.163
26.0	1168.729	1172.915	1127.923	1093.395	1077.700
26.5	1159.313	1163.498	1117.460	1082.932	1066.191

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES****CANDELA TABULATION - (Cont.)**

27.0	1150.942	1154.081	1108.043	1071.422	1054.682
27.5	1141.525	1144.664	1097.580	1060.959	1044.009
28.0	1131.062	1135.247	1088.163	1049.450	1032.918
28.5	1121.645	1125.831	1076.654	1038.882	1022.246
29.0	1111.182	1115.368	1066.191	1028.001	1011.678
29.5	1101.766	1105.951	1055.728	1017.119	1000.378
30.0	1091.302	1095.488	1044.637	1006.551	988.973
30.5	1081.886	1083.978	1033.651	995.460	978.510
31.0	1071.422	1074.561	1022.455	984.265	966.687
31.5	1059.913	1063.052	1010.946	972.965	955.387
32.0	1050.496	1051.543	999.541	961.351	943.982
32.5	1039.091	1040.556	987.927	949.109	932.682
33.0	1028.942	1028.838	975.999	937.285	920.440
33.5	1017.956	1017.747	964.280	925.462	908.512
34.0	1006.865	1006.028	952.352	913.430	897.316
34.5	996.088	993.995	940.320	901.083	885.493
35.0	985.311	982.277	928.601	888.737	872.833
35.5	974.534	969.930	916.673	876.285	859.963
36.0	963.652	958.316	904.222	864.148	847.617
36.5	952.562	946.284	892.294	851.488	834.956
37.0	941.366	934.565	880.052	839.037	821.250
37.5	929.438	922.637	868.124	826.376	807.857
38.0	918.243	910.709	855.778	813.507	794.569
38.5	906.419	898.572	843.850	800.533	781.699
39.0	894.596	886.749	831.294	788.081	770.817
39.5	882.563	875.135	819.157	777.409	758.994
40.0	870.740	863.730	806.810	765.272	746.229
40.5	858.603	851.697	794.673	753.658	733.673
41.0	846.989	839.874	783.687	741.102	721.641
41.5	835.270	828.364	773.747	728.756	709.922
42.0	823.238	816.436	761.924	716.932	698.517
42.5	811.310	804.822	750.833	705.423	687.531
43.0	799.696	793.208	739.114	694.227	676.754
43.5	788.605	782.641	727.709	683.346	666.291
44.0	777.932	773.119	716.514	672.778	656.037
44.5	769.771	761.714	705.423	662.420	645.992
45.0	758.262	750.519	694.541	652.270	635.843
45.5	746.961	739.428	683.869	642.226	625.903
46.0	735.871	728.023	673.406	632.390	615.963
46.5	724.675	716.618	662.943	622.450	606.128
47.0	713.689	705.318	652.689	612.615	596.188
47.5	702.493	694.018	642.330	602.780	586.353
48.0	691.507	682.927	632.076	592.840	576.517
48.5	680.521	671.836	621.718	583.005	566.787
49.0	669.534	660.850	611.464	572.960	557.161
49.5	658.653	649.864	601.106	563.229	547.535
50.0	647.876	638.982	590.852	553.499	538.013
50.5	636.994	628.101	580.493	543.768	528.701
51.0	626.113	617.324	570.135	534.142	519.389
51.5	615.336	606.546	559.881	524.516	510.077
52.0	604.454	595.769	549.836	514.994	500.764
52.5	593.572	585.202	539.792	505.577	491.557
53.0	582.691	574.529	529.957	496.161	482.454
53.5	571.914	563.962	520.226	486.744	473.037
54.0	561.241	553.603	510.600	477.536	463.830
54.5	550.569	543.140	501.078	468.120	454.622

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55.0	540.001	532.886	491.557	458.807	445.415
55.5	529.433	522.737	482.140	449.704	436.312
56.0	518.970	512.588	472.723	440.497	427.104
56.5	508.612	502.648	463.307	431.603	418.211
57.0	498.358	492.603	453.890	422.605	409.422
57.5	488.209	482.559	444.473	413.816	400.842
58.0	478.269	472.514	435.161	405.027	392.262
58.5	468.329	462.574	425.849	396.447	383.996
59.0	458.807	452.843	416.746	387.867	375.626
59.5	449.391	443.217	407.538	379.392	367.464
60.0	439.974	433.591	398.540	371.022	359.408
60.5	430.662	424.070	389.646	362.756	351.351
61.0	421.245	414.548	380.857	354.595	343.399
61.5	411.828	405.236	372.068	346.538	335.552
62.0	402.307	395.924	363.384	338.482	327.914
62.5	392.890	386.717	354.804	330.530	320.276
63.0	383.578	377.614	346.434	322.787	312.742
63.5	374.370	368.511	337.958	315.044	305.209
64.0	365.163	359.303	329.588	307.302	297.780
64.5	355.955	350.200	321.322	299.663	290.351
65.0	346.957	341.202	313.056	292.130	283.132
65.5	337.854	332.204	304.895	284.597	275.912
66.0	328.856	323.310	296.838	277.168	268.693
66.5	319.753	314.416	288.677	269.634	261.473
67.0	310.650	305.732	280.621	261.996	254.149
67.5	301.651	296.943	272.669	254.567	246.929
68.0	292.758	288.154	264.717	247.139	239.814
68.5	283.864	279.470	256.660	239.814	232.700
69.0	275.075	270.681	248.813	232.490	225.585
69.5	266.286	262.101	240.861	225.166	218.679
70.0	257.393	253.521	233.118	217.947	211.669
70.5	248.603	245.046	225.375	210.832	204.868
71.0	239.919	236.466	217.633	203.821	198.171
71.5	231.235	227.991	210.099	196.811	191.684
72.0	222.760	219.516	202.880	190.010	185.302
72.5	214.284	211.250	195.556	183.418	178.919
73.0	205.914	203.089	188.231	176.827	172.641
73.5	197.544	195.032	181.012	170.339	166.468
74.0	189.382	186.976	173.897	163.957	160.295
74.5	181.221	179.128	166.991	157.679	154.226
75.0	173.164	171.386	160.086	151.506	148.158
75.5	165.317	163.643	153.285	145.437	142.298
76.0	157.470	156.110	146.588	139.473	136.544
76.5	149.832	148.681	139.996	133.509	130.894
77.0	142.298	141.357	133.509	127.650	125.139
77.5	134.765	134.137	127.127	122.000	119.593
78.0	127.441	127.022	120.954	116.245	113.943
78.5	120.221	120.117	114.780	110.700	108.502
79.0	113.211	113.315	108.921	105.154	103.271
79.5	106.305	106.619	103.062	99.818	98.039
80.0	99.504	100.132	97.412	94.482	92.912
80.5	92.808	93.854	91.761	89.250	87.890
81.0	86.425	87.681	86.216	84.228	82.972
81.5	80.252	81.717	80.775	79.206	78.159
82.0	74.079	75.858	75.439	74.183	73.346
82.5	68.115	69.998	70.312	69.370	68.743

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES****CANDELA TABULATION - (Cont.)**

83.0	62.360	64.453	65.081	64.662	64.034
83.5	56.710	59.012	60.058	59.954	59.535
84.0	51.269	53.885	55.245	55.350	55.141
84.5	46.038	48.863	50.432	50.851	50.641
85.0	41.015	43.945	45.724	46.456	46.247
85.5	36.202	39.237	41.225	42.166	42.062
86.0	31.494	34.528	36.830	37.876	37.876
86.5	26.995	30.134	32.540	33.796	33.796
87.0	22.600	25.739	28.355	29.820	29.820
87.5	18.310	21.554	24.170	25.844	25.844
88.0	14.125	17.473	20.194	21.973	22.077
88.5	9.940	13.497	16.218	18.415	18.520
89.0	5.755	9.103	12.033	14.230	13.707
89.5	2.825	5.441	7.638	8.998	8.475
90.0	2.511	3.976	4.918	5.232	4.290
90.5	2.825	5.859	7.952	8.475	8.370
91.0	5.755	7.220	9.208	10.986	11.091
91.5	10.045	9.626	10.568	11.823	11.928
92.0	14.962	12.974	12.556	13.497	13.497
92.5	19.985	16.636	14.648	15.381	15.381
93.0	25.007	20.717	17.055	17.369	17.264
93.5	30.134	24.798	20.089	19.461	19.357
94.0	35.261	28.878	23.542	21.659	21.449
94.5	40.388	33.168	27.309	24.065	23.647
95.0	45.515	37.667	31.389	26.890	25.949
95.5	50.537	42.376	35.575	30.029	28.669
96.0	55.664	47.293	39.655	33.482	31.703
96.5	60.686	52.316	43.631	37.249	34.947
97.0	65.813	57.442	47.398	41.225	38.714
97.5	70.940	62.465	51.165	45.305	42.585
98.0	76.067	67.592	55.036	49.281	46.561
98.5	81.194	72.614	58.803	53.153	50.537
99.0	86.321	77.741	62.569	56.919	54.408
99.5	91.448	82.868	66.545	60.686	58.280
100.0	96.575	87.995	70.521	64.348	61.942
100.5	101.806	93.226	74.602	68.115	65.708
101.0	106.933	98.458	78.787	71.882	69.475
101.5	112.269	103.689	82.972	75.753	73.242
102.0	117.605	109.026	87.472	79.520	77.113
102.5	123.151	114.466	91.971	83.391	80.984
103.0	128.696	120.012	96.470	87.367	84.751
103.5	134.451	125.662	101.178	91.448	88.727
104.0	140.310	131.417	106.096	95.528	92.808
104.5	146.065	137.276	111.014	99.818	96.993
105.0	151.924	143.240	116.141	104.108	101.283
105.5	157.888	149.309	121.372	108.502	105.573
106.0	164.062	155.482	126.813	113.002	110.072
106.5	170.444	161.864	132.463	117.710	114.571
107.0	177.036	168.456	138.322	122.418	119.279
107.5	183.732	175.152	144.391	127.336	123.988
108.0	190.742	182.058	150.564	132.463	128.906
108.5	197.962	189.173	157.051	137.799	133.928
109.0	205.391	196.497	163.643	143.240	139.159
109.5	212.924	203.926	170.549	148.890	144.600
110.0	220.876	211.669	177.664	154.749	150.146
110.5	228.933	219.725	185.092	160.923	155.900

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111.0	237.408	227.887	192.835	167.305	161.864
111.5	245.988	236.362	200.892	174.106	168.142
112.0	255.091	245.255	209.262	181.116	174.839
112.5	264.403	254.358	217.947	188.545	181.640
113.0	274.029	263.880	227.049	196.183	188.859
113.5	283.969	273.610	236.466	204.135	196.183
114.0	294.327	283.655	246.197	212.506	204.135
114.5	304.895	294.013	256.346	221.295	212.297
115.0	315.881	304.790	266.809	230.398	220.981
115.5	327.181	315.881	277.796	239.919	229.875
116.0	338.691	327.286	289.096	249.964	239.291
116.5	350.619	339.109	300.814	260.531	249.022
117.0	363.070	351.037	312.952	271.413	259.381
117.5	375.835	363.488	325.403	282.818	270.158
118.0	389.018	376.149	338.272	294.641	281.248
118.5	402.516	389.332	351.561	306.778	292.758
119.0	416.327	402.830	365.058	319.334	304.790
119.5	430.348	416.641	379.078	332.518	317.242
120.0	444.473	430.871	393.518	346.015	330.111
120.5	459.017	445.415	408.271	360.036	343.399
121.0	473.874	460.377	423.442	374.579	357.211
121.5	489.150	475.653	438.927	389.646	371.650
122.0	504.740	491.348	454.831	405.027	386.507
122.5	520.749	507.147	471.049	421.036	401.993
123.0	537.071	523.260	487.476	437.358	417.792
123.5	553.603	539.583	504.217	453.994	434.010
124.0	570.240	556.219	521.168	471.049	450.646
124.5	587.190	572.855	538.327	488.627	467.806
125.0	604.140	589.806	555.800	506.519	485.593
125.5	620.986	606.860	573.378	524.830	503.589
126.0	637.727	624.020	591.061	543.349	521.795
126.5	654.572	641.179	608.744	562.183	540.420
127.0	671.732	658.548	626.740	581.226	559.567
127.5	688.996	675.917	644.632	600.478	578.819
128.0	706.155	693.495	662.524	619.730	598.281
128.5	723.210	710.864	680.311	638.982	617.742
129.0	739.847	728.128	697.889	658.339	637.308
129.5	756.692	745.287	715.467	677.591	657.188
130.0	771.340	761.819	732.836	696.948	677.277
130.5	785.152	776.049	749.996	716.095	697.157
131.0	801.056	791.953	765.272	735.033	717.142
131.5	817.064	807.647	781.071	752.925	737.021
132.0	832.759	823.761	795.615	770.399	754.704
132.5	848.454	839.560	811.833	788.186	774.166
133.0	863.939	854.941	827.946	803.776	793.313
133.5	878.901	870.531	843.745	820.831	809.740
134.0	893.445	885.388	859.440	837.677	828.260
134.5	907.884	900.246	874.611	854.208	846.256
135.0	921.381	914.371	889.783	870.426	863.625
135.5	935.088	928.392	904.641	886.016	880.261
136.0	948.376	942.098	919.080	901.606	896.689
136.5	960.827	955.596	933.309	916.464	912.802
137.0	973.174	968.361	947.644	931.531	928.287
137.5	985.206	981.335	960.618	945.970	943.459
138.0	997.239	993.682	974.116	959.990	957.898
138.5	1009.062	1006.028	986.776	973.488	971.604

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES****CANDELA TABULATION - (Cont.)**

139.0	1019.839	1017.956	999.018	986.881	985.520
139.5	1030.721	1029.675	1011.260	999.541	998.495
140.0	1041.498	1040.452	1022.769	1012.515	1011.364
140.5	1051.543	1051.543	1034.174	1024.548	1023.501
141.0	1062.006	1062.006	1045.788	1036.476	1035.325
141.5	1071.422	1072.469	1056.774	1048.404	1047.357
142.0	1080.839	1082.932	1068.284	1058.867	1058.867
142.5	1090.256	1092.349	1077.700	1070.376	1069.330
143.0	1099.673	1101.766	1088.163	1080.839	1080.839
143.5	1108.043	1111.182	1098.627	1091.302	1091.302
144.0	1116.414	1119.553	1108.043	1101.766	1101.766
144.5	1124.784	1128.970	1116.414	1112.229	1112.229
145.0	1133.155	1137.340	1125.831	1121.645	1122.692
145.5	1141.525	1145.711	1134.201	1131.062	1133.155
146.0	1148.850	1154.081	1142.572	1140.479	1142.572
146.5	1157.220	1161.405	1150.942	1149.896	1153.035
147.0	1164.544	1168.729	1159.313	1158.266	1161.405
147.5	1170.822	1177.100	1166.637	1166.637	1170.822
148.0	1179.193	1184.424	1175.007	1175.007	1179.193
148.5	1186.517	1191.748	1182.331	1182.331	1187.563
149.0	1193.841	1199.072	1189.656	1189.656	1194.887
149.5	1200.119	1206.397	1196.980	1196.980	1202.211
150.0	1207.443	1212.674	1204.304	1203.258	1208.489
150.5	1213.721	1219.999	1211.628	1209.536	1214.767
151.0	1219.999	1226.277	1218.952	1216.860	1221.045
151.5	1227.323	1233.601	1225.230	1223.138	1226.277
152.0	1233.601	1239.879	1232.554	1229.415	1231.508
152.5	1239.879	1246.156	1239.879	1235.693	1237.786
153.0	1246.156	1252.434	1246.156	1241.971	1243.017
153.5	1252.434	1257.666	1252.434	1248.249	1248.249
154.0	1257.666	1263.944	1258.712	1254.527	1253.481
154.5	1263.944	1270.222	1264.990	1260.805	1259.758
155.0	1269.175	1275.453	1271.268	1267.083	1264.990
155.5	1274.407	1280.685	1277.546	1273.361	1271.268
156.0	1279.638	1285.916	1282.777	1279.638	1277.546
156.5	1284.870	1291.148	1289.055	1285.916	1283.824
157.0	1289.055	1296.379	1294.287	1292.194	1289.055
157.5	1294.287	1301.611	1299.518	1298.472	1295.333
158.0	1299.518	1306.842	1304.750	1303.704	1301.611
158.5	1304.750	1311.028	1309.981	1309.981	1306.842
159.0	1308.935	1316.259	1314.167	1315.213	1312.074
159.5	1313.120	1320.445	1319.398	1321.491	1318.352
160.0	1317.306	1324.630	1324.630	1326.722	1323.583
160.5	1321.491	1328.815	1328.815	1330.908	1328.815
161.0	1325.676	1333.000	1333.000	1336.139	1334.047
161.5	1329.861	1337.185	1337.185	1340.324	1338.232
162.0	1334.047	1341.371	1341.371	1344.510	1343.463
162.5	1338.232	1345.556	1345.556	1348.695	1347.649
163.0	1342.417	1348.695	1349.741	1352.880	1351.834
163.5	1346.602	1352.880	1352.880	1356.019	1354.973
164.0	1350.788	1357.065	1357.065	1359.158	1359.158
164.5	1353.926	1361.251	1360.204	1362.297	1362.297
165.0	1358.112	1364.390	1363.343	1365.436	1365.436
165.5	1361.251	1367.529	1365.436	1368.575	1368.575
166.0	1365.436	1371.714	1368.575	1370.667	1371.714
166.5	1368.575	1374.853	1370.667	1373.806	1373.806

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES****CANDELA TABULATION - (Cont.)**

167.0	1371.714	1377.992	1373.806	1376.945	1377.992
167.5	1374.853	1381.131	1375.899	1379.038	1380.084
168.0	1377.992	1383.223	1379.038	1382.177	1382.177
168.5	1381.131	1386.362	1381.131	1384.269	1385.316
169.0	1383.223	1388.455	1383.223	1387.408	1388.455
169.5	1386.362	1391.594	1385.316	1389.501	1390.547
170.0	1388.455	1393.686	1387.408	1391.594	1393.686
170.5	1391.594	1395.779	1389.501	1393.686	1395.779
171.0	1393.686	1397.872	1390.547	1395.779	1397.872
171.5	1394.733	1398.918	1392.640	1397.872	1401.010
172.0	1397.872	1401.010	1394.733	1399.964	1403.103
172.5	1398.918	1403.103	1395.779	1402.057	1405.196
173.0	1401.010	1404.149	1397.872	1403.103	1407.288
173.5	1403.103	1406.242	1398.918	1404.149	1409.381
174.0	1404.149	1407.288	1399.964	1406.242	1410.427
174.5	1406.242	1408.335	1402.057	1407.288	1411.474
175.0	1407.288	1409.381	1403.103	1408.335	1412.520
175.5	1408.335	1410.427	1403.103	1409.381	1413.566
176.0	1410.427	1411.474	1405.196	1410.427	1414.613
176.5	1411.474	1412.520	1405.196	1410.427	1414.613
177.0	1411.474	1412.520	1406.242	1411.474	1414.613
177.5	1412.520	1413.566	1407.288	1411.474	1414.613
178.0	1413.566	1414.613	1407.288	1411.474	1415.659
178.5	1414.613	1414.613	1408.335	1412.520	1414.613
179.0	1414.613	1414.613	1408.335	1412.520	1414.613
179.5	1414.613	1414.613	1409.381	1412.520	1414.613
180.0	1412.520	1412.520	1412.520	1412.520	1412.520



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	500.72	N.A.	7.60
0-30	1028.7	N.A.	15.70
0-40	1610.43	N.A.	24.60
0-60	2592.34	N.A.	39.60
0-80	3076.43	N.A.	47.00
0-90	3127.43	N.A.	47.70
10-90	2995.41	N.A.	45.70
20-40	1109.71	N.A.	16.90
20-50	1649.2	N.A.	25.20
40-70	1294.59	N.A.	19.80
60-80	484.10	N.A.	7.40
70-80	171.42	N.A.	2.60
80-90	51.00	N.A.	0.80
90-110	170.10	N.A.	2.60
90-120	440.51	N.A.	6.70
90-130	933.25	N.A.	14.20
90-150	2320.51	N.A.	35.40
90-180	3424.87	N.A.	52.30
110-180	3254.77	N.A.	49.70
0-180	6552.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.02
10-20	368.69
20-30	527.99
30-40	581.72
40-50	539.49
50-60	442.43
60-70	312.68
70-80	171.42
80-90	51.00
90-100	38.67
100-110	131.43
110-120	270.41
120-130	492.74
130-140	683.35
140-150	703.92
150-160	585.59
160-170	384.93
170-180	133.83

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.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	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30
4	75	64	56	50	68	59	53	47	50	45	41	42	38	35	34	32	29	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	15
10	47	36	28	24	44	33	27	22	29	24	20	25	20	18	21	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-P8-835U-P8-835D-F-F-POE X.IES

## UGR TABLE - CORRECTED

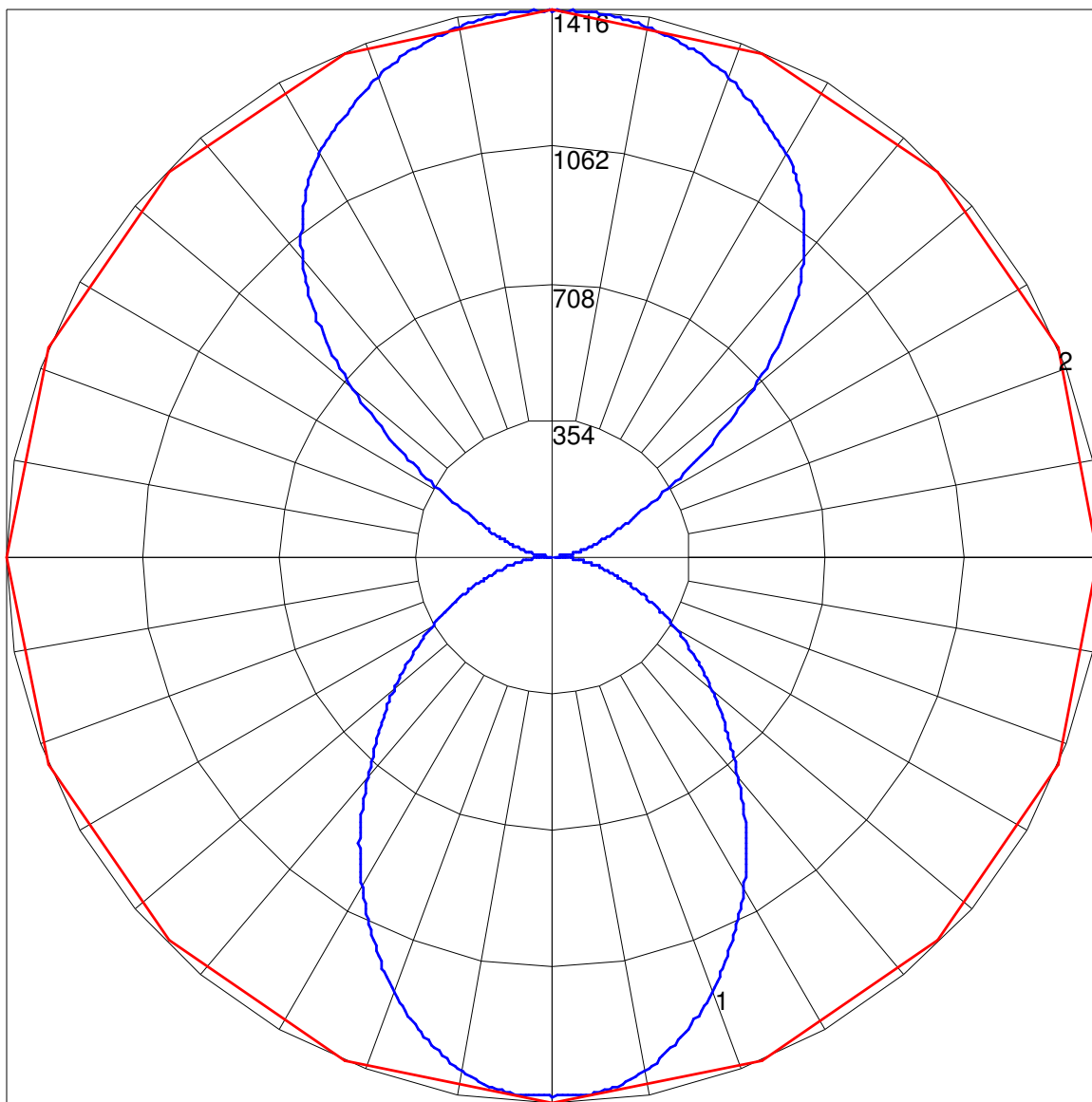
### Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.6	15.5	15.6	16.4	17.7	13.5	14.3	14.5	15.3	16.6
	3H	16.2	16.9	17.1	17.9	19.2	15.0	15.7	16.0	16.7	18.1
	4H	16.7	17.4	17.7	18.4	19.7	15.5	16.2	16.5	17.2	18.5
	6H	17.0	17.6	18.0	18.6	20.0	15.9	16.5	16.9	17.5	18.9
	8H	17.1	17.7	18.1	18.7	20.0	16.0	16.6	17.0	17.6	19.0
	12H	17.1	17.7	18.1	18.7	20.1	16.1	16.7	17.1	17.7	19.0
4H	2H	14.7	15.4	15.7	16.4	17.7	13.7	14.4	14.7	15.4	16.7
	3H	16.3	16.9	17.4	18.0	19.3	15.3	15.9	16.3	16.9	18.3
	4H	16.9	17.5	18.0	18.5	19.9	15.9	16.4	16.9	17.5	18.8
	6H	17.3	17.8	18.4	18.8	20.2	16.4	16.8	17.4	17.9	19.2
	8H	17.4	17.9	18.5	18.9	20.3	16.5	16.9	17.5	18.0	19.3
	12H	17.5	17.9	18.5	18.9	20.3	16.6	17.0	17.7	18.0	19.4
8H	4H	16.9	17.3	17.9	18.4	19.7	15.9	16.3	16.9	17.4	18.8
	6H	17.3	17.7	18.4	18.8	20.2	16.4	16.8	17.5	17.9	19.2
	8H	17.5	17.8	18.6	18.9	20.3	16.6	16.9	17.7	18.0	19.4
	12H	17.6	17.8	18.6	18.9	20.3	16.7	17.0	17.8	18.1	19.5
12H	4H	16.8	17.2	17.9	18.3	19.7	15.9	16.3	16.9	17.3	18.7
	6H	17.3	17.6	18.4	18.7	20.1	16.4	16.7	17.5	17.8	19.2
	8H	17.5	17.7	18.5	18.8	20.2	16.6	16.9	17.7	17.9	19.4

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 1415.659 Located At Horizontal Angle = 90, Vertical Angle = 178  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (178) (Through Max. Cd.)