



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-L8-940U-L8-940D-FA-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 13012869.08
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 09-21-2022
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX2WUD-4'00-L8/940U/L8/940D-FA/F-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, lens enclosures
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs
 [BALLAST] Two Philips Advance XI040C110V054BST1 Driver
 [OTHER] 24.1 C, 120.029 V, 0.426041 A, 50.7654 W, 0.992725 PF, 60 Hz
 [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	5456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	53.6
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	13401	5389	4069
55	11387	3747	2734
65	9422	2417	1720
75	6898	1292	919
85	3250	399	302

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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	1164.911	1164.911	1164.911	1164.911	1164.911
0.5	1161.426	1171.881	1162.297	1163.168	1163.168
1.0	1161.426	1171.010	1162.297	1163.168	1163.168
1.5	1161.426	1171.010	1162.297	1163.168	1164.040
2.0	1160.554	1171.010	1161.426	1163.168	1164.040
2.5	1160.554	1170.139	1161.426	1164.040	1164.040
3.0	1159.683	1169.267	1160.554	1163.168	1163.168
3.5	1158.812	1168.396	1159.683	1163.168	1163.168
4.0	1157.069	1167.525	1158.812	1162.297	1162.297
4.5	1156.198	1166.653	1157.941	1161.426	1161.426
5.0	1155.327	1164.911	1156.198	1160.554	1159.683
5.5	1153.584	1164.040	1155.327	1158.812	1157.941
6.0	1151.842	1162.297	1153.584	1157.069	1156.198
6.5	1150.099	1160.554	1151.842	1154.455	1154.455
7.0	1148.356	1158.812	1150.099	1151.842	1151.842
7.5	1145.743	1157.069	1147.485	1149.228	1148.356
8.0	1144.000	1154.455	1145.743	1145.743	1144.871
8.5	1141.386	1151.842	1143.129	1142.257	1141.386
9.0	1138.772	1150.099	1140.515	1138.772	1137.901
9.5	1136.158	1147.485	1137.901	1135.287	1133.545
10.0	1133.545	1144.871	1134.416	1130.931	1128.317
10.5	1130.931	1142.257	1131.802	1127.446	1123.089
11.0	1128.317	1138.772	1127.446	1123.089	1118.733
11.5	1124.832	1135.287	1123.960	1117.861	1113.505
12.0	1121.347	1132.673	1119.604	1113.505	1107.406
12.5	1117.861	1129.188	1115.247	1108.277	1102.178
13.0	1114.376	1125.703	1110.891	1103.049	1096.079
13.5	1110.891	1121.347	1106.535	1097.822	1089.980
14.0	1106.535	1117.861	1101.307	1092.594	1084.752
14.5	1103.049	1113.505	1096.079	1086.495	1078.653
15.0	1098.693	1109.148	1090.851	1080.396	1071.683
15.5	1093.465	1104.792	1085.624	1074.297	1065.584
16.0	1089.109	1100.436	1080.396	1068.198	1058.614
16.5	1084.752	1095.208	1074.297	1061.228	1051.644
17.0	1080.396	1089.980	1068.198	1055.129	1045.545
17.5	1075.168	1085.624	1062.099	1048.158	1038.574
18.0	1069.941	1079.525	1056.000	1041.188	1031.604
18.5	1065.584	1074.297	1049.901	1035.089	1024.634
19.0	1060.356	1069.069	1042.931	1027.247	1016.792
19.5	1055.129	1062.970	1035.960	1020.277	1009.822
20.0	1049.030	1056.871	1028.990	1013.307	1001.980
20.5	1043.802	1051.644	1022.020	1005.465	993.267
21.0	1038.574	1044.673	1015.049	996.752	986.297
21.5	1032.475	1038.574	1008.079	988.911	976.713
22.0	1026.376	1032.475	1001.109	981.069	968.871
22.5	1020.277	1025.505	993.267	972.356	961.030
23.0	1014.178	1019.406	986.297	963.644	951.446
23.5	1008.079	1012.436	978.455	954.931	942.733
24.0	1001.109	1005.465	970.614	946.218	933.148
24.5	995.010	998.495	963.644	937.505	924.436
25.0	987.168	991.525	954.931	927.921	914.851
25.5	980.198	984.554	947.089	919.208	906.139
26.0	973.228	976.713	939.248	910.495	897.426
26.5	965.386	968.871	930.535	901.782	887.842

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27.0	958.416	961.030	922.693	892.198	878.257
27.5	950.574	953.188	913.980	883.485	869.370
28.0	941.861	945.347	906.139	873.901	860.135
28.5	934.020	937.505	896.554	865.101	851.248
29.0	925.307	928.792	887.842	856.040	842.448
29.5	917.465	920.950	879.129	846.978	833.038
30.0	908.752	912.238	869.893	838.178	823.541
30.5	900.911	902.653	860.745	828.943	814.828
31.0	892.198	894.812	851.422	819.620	804.982
31.5	882.614	885.228	841.838	810.210	795.572
32.0	874.772	875.644	832.341	800.539	786.075
32.5	865.275	866.495	822.669	790.345	776.665
33.0	856.824	856.737	812.737	780.499	766.471
33.5	847.675	847.501	802.978	770.653	756.539
34.0	838.440	837.743	793.046	760.634	747.216
34.5	829.465	827.723	783.026	750.352	737.370
35.0	820.491	817.964	773.267	740.071	726.828
35.5	811.517	807.683	763.335	729.703	716.111
36.0	802.455	798.012	752.966	719.596	705.830
36.5	793.220	787.992	743.034	709.053	695.287
37.0	783.897	778.234	732.840	698.685	683.873
37.5	773.964	768.301	722.907	688.143	672.721
38.0	764.642	758.368	712.626	677.426	661.655
38.5	754.796	748.261	702.693	666.622	650.939
39.0	744.950	738.416	692.238	656.253	641.877
39.5	734.931	728.745	682.131	647.366	632.032
40.0	725.085	719.248	671.849	637.259	621.402
40.5	714.978	709.228	661.743	627.588	610.947
41.0	705.307	699.382	652.594	617.133	600.927
41.5	695.548	689.798	644.317	606.851	591.168
42.0	685.529	679.865	634.471	597.006	581.671
42.5	675.596	670.194	625.236	587.422	572.523
43.0	665.925	660.523	615.477	578.099	563.549
43.5	656.689	651.723	605.980	569.038	554.836
44.0	647.802	643.794	596.657	560.238	546.297
44.5	641.006	634.297	587.422	551.612	537.933
45.0	631.422	624.974	578.360	543.160	529.481
45.5	622.012	615.739	569.473	534.796	521.204
46.0	612.776	606.242	560.760	526.606	512.927
46.5	603.453	596.745	552.048	518.329	504.737
47.0	594.305	587.335	543.509	510.139	496.459
47.5	584.982	577.925	534.883	501.949	488.269
48.0	575.834	568.689	526.345	493.671	480.079
48.5	566.685	559.453	517.719	485.481	471.976
49.0	557.537	550.305	509.180	477.117	463.960
49.5	548.475	541.156	500.554	469.014	455.945
50.0	539.501	532.095	492.016	460.911	448.016
50.5	530.440	523.034	483.390	452.808	440.261
51.0	521.378	514.059	474.764	444.792	432.507
51.5	512.404	505.085	466.226	436.776	424.752
52.0	503.343	496.111	457.861	428.848	416.998
52.5	494.281	487.311	449.497	421.006	409.331
53.0	485.220	478.424	441.307	413.164	401.750
53.5	476.246	469.624	433.204	405.323	393.909
54.0	467.358	460.998	425.188	397.655	386.242
54.5	458.471	452.285	417.259	389.814	378.574

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55.0	449.671	443.747	409.331	382.059	370.907
55.5	440.871	435.295	401.489	374.479	363.327
56.0	432.158	426.844	393.648	366.812	355.659
56.5	423.533	418.566	385.806	359.406	348.253
57.0	414.994	410.202	377.964	351.913	340.935
57.5	406.543	401.838	370.123	344.594	333.790
58.0	398.265	393.473	362.368	337.275	326.646
58.5	389.988	385.196	354.614	330.131	319.762
59.0	382.059	377.093	347.034	322.986	312.792
59.5	374.218	369.077	339.366	315.929	305.996
60.0	366.376	361.061	331.873	308.958	299.287
60.5	358.622	353.133	324.467	302.075	292.578
61.0	350.780	345.204	317.149	295.279	285.956
61.5	342.939	337.449	309.830	288.570	279.422
62.0	335.010	329.695	302.598	281.861	273.061
62.5	327.168	322.028	295.453	275.240	266.701
63.0	319.414	314.448	288.483	268.792	260.428
63.5	311.747	306.867	281.426	262.345	254.154
64.0	304.079	299.200	274.455	255.897	247.968
64.5	296.412	291.620	267.572	249.537	241.782
65.0	288.919	284.127	260.689	243.263	235.770
65.5	281.339	276.634	253.893	236.990	229.758
66.0	273.846	269.228	247.184	230.804	223.747
66.5	266.265	261.822	240.388	224.531	217.735
67.0	258.685	254.590	233.679	218.170	211.636
67.5	251.192	247.271	227.057	211.984	205.624
68.0	243.786	239.952	220.436	205.798	199.699
68.5	236.380	232.721	213.727	199.699	193.774
69.0	229.061	225.402	207.192	193.600	187.850
69.5	221.743	218.257	200.570	187.501	182.099
70.0	214.337	211.113	194.123	181.489	176.261
70.5	207.018	204.055	187.675	175.564	170.598
71.0	199.786	196.911	181.228	169.727	165.022
71.5	192.554	189.853	174.954	163.889	159.620
72.0	185.497	182.796	168.943	158.226	154.305
72.5	178.440	175.913	162.844	152.737	148.990
73.0	171.469	169.117	156.745	147.248	143.762
73.5	164.499	162.408	150.733	141.846	138.622
74.0	157.703	155.699	144.808	136.531	133.481
74.5	150.907	149.164	139.057	131.303	128.428
75.0	144.198	142.717	133.307	126.162	123.374
75.5	137.663	136.269	127.644	121.109	118.495
76.0	131.129	129.996	122.067	116.143	113.703
76.5	124.768	123.810	116.578	111.176	108.998
77.0	118.495	117.711	111.176	106.297	104.206
77.5	112.222	111.699	105.861	101.592	99.588
78.0	106.123	105.774	100.721	96.800	94.883
78.5	100.111	100.024	95.580	92.182	90.352
79.0	94.273	94.360	90.701	87.564	85.996
79.5	88.523	88.784	85.822	83.121	81.640
80.0	82.859	83.382	81.117	78.677	77.370
80.5	77.283	78.154	76.412	74.321	73.188
81.0	71.968	73.014	71.794	70.139	69.093
81.5	66.828	68.048	67.263	65.956	65.085
82.0	61.687	63.168	62.820	61.774	61.077
82.5	56.721	58.289	58.550	57.766	57.244

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83.0	51.929	53.671	54.194	53.846	53.323
83.5	47.224	49.141	50.012	49.925	49.576
84.0	42.693	44.871	46.004	46.091	45.917
84.5	38.337	40.689	41.996	42.345	42.170
85.0	34.154	36.594	38.075	38.685	38.511
85.5	30.147	32.673	34.329	35.113	35.026
86.0	26.226	28.752	30.669	31.541	31.541
86.5	22.479	25.093	27.097	28.143	28.143
87.0	18.820	21.434	23.612	24.832	24.832
87.5	15.248	17.949	20.127	21.521	21.521
88.0	11.762	14.550	16.816	18.297	18.384
88.5	8.277	11.240	13.505	15.335	15.422
89.0	4.792	7.580	10.020	11.850	11.414
89.5	2.352	4.531	6.360	7.493	7.057
90.0	2.091	3.311	4.095	4.356	3.572
90.5	2.352	4.879	6.622	7.057	6.970
91.0	4.792	6.012	7.667	9.149	9.236
91.5	8.364	8.016	8.800	9.846	9.933
92.0	12.459	10.804	10.455	11.240	11.240
92.5	16.642	13.853	12.198	12.808	12.808
93.0	20.824	17.251	14.202	14.463	14.376
93.5	25.093	20.650	16.729	16.206	16.119
94.0	29.362	24.048	19.604	18.036	17.861
94.5	33.632	27.620	22.741	20.040	19.691
95.0	37.901	31.366	26.139	22.392	21.608
95.5	42.083	35.287	29.624	25.006	23.873
96.0	46.352	39.382	33.022	27.881	26.400
96.5	50.535	43.564	36.333	31.018	29.101
97.0	54.804	47.834	39.469	34.329	32.238
97.5	59.073	52.016	42.606	37.727	35.461
98.0	63.343	56.285	45.830	41.038	38.772
98.5	67.612	60.467	48.966	44.261	42.083
99.0	71.881	64.737	52.103	47.398	45.307
99.5	76.150	69.006	55.414	50.535	48.531
100.0	80.420	73.275	58.725	53.584	51.580
100.5	84.776	77.632	62.123	56.721	54.717
101.0	89.046	81.988	65.608	59.857	57.853
101.5	93.489	86.345	69.093	63.081	60.990
102.0	97.933	90.788	72.840	66.218	64.214
102.5	102.550	95.319	76.586	69.442	67.438
103.0	107.168	99.937	80.333	72.752	70.574
103.5	111.960	104.642	84.253	76.150	73.885
104.0	116.840	109.434	88.349	79.549	77.283
104.5	121.632	114.313	92.444	83.121	80.768
105.0	126.511	119.279	96.713	86.693	84.341
105.5	131.477	124.333	101.069	90.352	87.913
106.0	136.618	129.473	105.600	94.099	91.659
106.5	141.933	134.788	110.305	98.020	95.406
107.0	147.422	140.277	115.184	101.941	99.327
107.5	152.998	145.853	120.238	106.036	103.248
108.0	158.836	151.604	125.378	110.305	107.343
108.5	164.848	157.529	130.780	114.749	111.525
109.0	171.034	163.628	136.269	119.279	115.881
109.5	177.307	169.814	142.020	123.984	120.412
110.0	183.929	176.261	147.945	128.863	125.030
110.5	190.638	182.970	154.131	134.004	129.822

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111.0	197.695	189.766	160.578	139.319	134.788
111.5	204.840	196.824	167.287	144.982	140.016
112.0	212.420	204.230	174.257	150.820	145.592
112.5	220.174	211.810	181.489	157.006	151.255
113.0	228.190	219.739	189.069	163.366	157.267
113.5	236.467	227.842	196.911	169.988	163.366
114.0	245.093	236.206	205.014	176.958	169.988
114.5	253.893	244.832	213.465	184.277	176.784
115.0	263.042	253.806	222.178	191.857	184.016
115.5	272.451	263.042	231.327	199.786	191.422
116.0	282.036	272.539	240.737	208.150	199.263
116.5	291.968	282.384	250.495	216.950	207.366
117.0	302.337	292.317	260.602	226.012	215.992
117.5	312.966	302.685	270.970	235.509	224.966
118.0	323.945	313.228	281.687	245.354	234.202
118.5	335.184	324.206	292.752	255.461	243.786
119.0	346.685	335.446	303.992	265.917	253.806
119.5	358.360	346.947	315.667	276.895	264.174
120.0	370.123	358.796	327.691	288.135	274.891
120.5	382.234	370.907	339.976	299.810	285.956
121.0	394.606	383.366	352.610	311.921	297.457
121.5	407.327	396.087	365.505	324.467	309.481
122.0	420.309	409.156	378.749	337.275	321.853
122.5	433.640	422.313	392.253	350.606	334.749
123.0	447.232	435.731	405.933	364.198	347.905
123.5	460.998	449.323	419.873	378.051	361.410
124.0	474.851	463.176	433.988	392.253	375.263
124.5	488.966	477.030	448.277	406.891	389.552
125.0	503.081	491.145	462.828	421.790	404.364
125.5	517.109	505.347	477.465	437.038	419.350
126.0	531.049	519.636	492.190	452.459	434.511
126.5	545.077	533.925	506.915	468.143	450.020
127.0	559.366	548.388	521.901	484.000	465.964
127.5	573.743	562.851	536.800	500.032	481.996
128.0	588.032	577.489	551.699	516.063	498.202
128.5	602.234	591.952	566.511	532.095	514.408
129.0	616.087	606.329	581.149	548.214	530.701
129.5	630.115	620.618	595.786	564.246	547.255
130.0	642.313	634.384	610.249	580.364	563.984
130.5	653.814	646.234	624.539	596.309	580.539
131.0	667.057	659.477	637.259	612.079	597.180
131.5	680.388	672.547	650.416	626.978	613.735
132.0	693.457	685.964	662.527	641.529	628.459
132.5	706.527	699.121	676.032	656.341	644.665
133.0	719.422	711.929	689.449	669.323	660.610
133.5	731.881	724.911	702.606	683.525	674.289
134.0	743.992	737.283	715.675	697.552	689.711
134.5	756.016	749.655	728.309	711.319	704.697
135.0	767.255	761.418	740.943	724.824	719.160
135.5	778.669	773.093	753.315	737.806	733.014
136.0	789.735	784.507	765.339	750.788	746.693
136.5	800.103	795.747	777.188	763.160	760.111
137.0	810.384	806.376	789.125	775.707	773.006
137.5	820.404	817.180	799.929	787.731	785.640
138.0	830.424	827.461	811.168	799.406	797.663
138.5	840.269	837.743	821.711	810.646	809.077

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L8-940U-L8-940D-FA-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	849.244	847.675	831.905	821.798	820.665
139.5	858.305	857.434	842.099	832.341	831.469
140.0	867.279	866.408	851.683	843.145	842.186
140.5	875.644	875.644	861.180	853.164	852.293
141.0	884.356	884.356	870.851	863.097	862.139
141.5	892.198	893.069	880.000	873.030	872.158
142.0	900.040	901.782	889.584	881.743	881.743
142.5	907.881	909.624	897.426	891.327	890.455
143.0	915.723	917.465	906.139	900.040	900.040
143.5	922.693	925.307	914.851	908.752	908.752
144.0	929.663	932.277	922.693	917.465	917.465
144.5	936.634	940.119	929.663	926.178	926.178
145.0	943.604	947.089	937.505	934.020	934.891
145.5	950.574	954.059	944.475	941.861	943.604
146.0	956.673	961.030	951.446	949.703	951.446
146.5	963.644	967.129	958.416	957.545	960.158
147.0	969.743	973.228	965.386	964.515	967.129
147.5	974.970	980.198	971.485	971.485	974.970
148.0	981.941	986.297	978.455	978.455	981.941
148.5	988.040	992.396	984.554	984.554	988.911
149.0	994.139	998.495	990.653	990.653	995.010
149.5	999.366	1004.594	996.752	996.752	1001.109
150.0	1005.465	1009.822	1002.851	1001.980	1006.337
150.5	1010.693	1015.921	1008.950	1007.208	1011.564
151.0	1015.921	1021.148	1015.049	1013.307	1016.792
151.5	1022.020	1027.247	1020.277	1018.535	1021.148
152.0	1027.247	1032.475	1026.376	1023.762	1025.505
152.5	1032.475	1037.703	1032.475	1028.990	1030.733
153.0	1037.703	1042.931	1037.703	1034.218	1035.089
153.5	1042.931	1047.287	1042.931	1039.446	1039.446
154.0	1047.287	1052.515	1048.158	1044.673	1043.802
154.5	1052.515	1057.743	1053.386	1049.901	1049.030
155.0	1056.871	1062.099	1058.614	1055.129	1053.386
155.5	1061.228	1066.455	1063.842	1060.356	1058.614
156.0	1065.584	1070.812	1068.198	1065.584	1063.842
156.5	1069.941	1075.168	1073.426	1070.812	1069.069
157.0	1073.426	1079.525	1077.782	1076.040	1073.426
157.5	1077.782	1083.881	1082.139	1081.267	1078.653
158.0	1082.139	1088.238	1086.495	1085.624	1083.881
158.5	1086.495	1091.723	1090.851	1090.851	1088.238
159.0	1089.980	1096.079	1094.337	1095.208	1092.594
159.5	1093.465	1099.564	1098.693	1100.436	1097.822
160.0	1096.950	1103.049	1103.049	1104.792	1102.178
160.5	1100.436	1106.535	1106.535	1108.277	1106.535
161.0	1103.921	1110.020	1110.020	1112.634	1110.891
161.5	1107.406	1113.505	1113.505	1116.119	1114.376
162.0	1110.891	1116.990	1116.990	1119.604	1118.733
162.5	1114.376	1120.475	1120.475	1123.089	1122.218
163.0	1117.861	1123.089	1123.960	1126.574	1125.703
163.5	1121.347	1126.574	1126.574	1129.188	1128.317
164.0	1124.832	1130.059	1130.059	1131.802	1131.802
164.5	1127.446	1133.545	1132.673	1134.416	1134.416
165.0	1130.931	1136.158	1135.287	1137.030	1137.030
165.5	1133.545	1138.772	1137.030	1139.644	1139.644
166.0	1137.030	1142.257	1139.644	1141.386	1142.257
166.5	1139.644	1144.871	1141.386	1144.000	1144.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L8-940U-L8-940D-FA-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1142.257	1147.485	1144.000	1146.614	1147.485
167.5	1144.871	1150.099	1145.743	1148.356	1149.228
168.0	1147.485	1151.842	1148.356	1150.970	1150.970
168.5	1150.099	1154.455	1150.099	1152.713	1153.584
169.0	1151.842	1156.198	1151.842	1155.327	1156.198
169.5	1154.455	1158.812	1153.584	1157.069	1157.941
170.0	1156.198	1160.554	1155.327	1158.812	1160.554
170.5	1158.812	1162.297	1157.069	1160.554	1162.297
171.0	1160.554	1164.040	1157.941	1162.297	1164.040
171.5	1161.426	1164.911	1159.683	1164.040	1166.653
172.0	1164.040	1166.653	1161.426	1165.782	1168.396
172.5	1164.911	1168.396	1162.297	1167.525	1170.139
173.0	1166.653	1169.267	1164.040	1168.396	1171.881
173.5	1168.396	1171.010	1164.911	1169.267	1173.624
174.0	1169.267	1171.881	1165.782	1171.010	1174.495
174.5	1171.010	1172.752	1167.525	1171.881	1175.366
175.0	1171.881	1173.624	1168.396	1172.752	1176.238
175.5	1172.752	1174.495	1168.396	1173.624	1177.109
176.0	1174.495	1175.366	1170.139	1174.495	1177.980
176.5	1175.366	1176.238	1170.139	1174.495	1177.980
177.0	1175.366	1176.238	1171.010	1175.366	1177.980
177.5	1176.238	1177.109	1171.881	1175.366	1177.980
178.0	1177.109	1177.980	1171.881	1175.366	1178.851
178.5	1177.980	1177.980	1172.752	1176.238	1177.980
179.0	1177.980	1177.980	1172.752	1176.238	1177.980
179.5	1177.980	1177.980	1173.624	1176.238	1177.980
180.0	1176.238	1176.238	1176.238	1176.238	1176.238

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L8-940U-L8-940D-FA-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	416.96	N.A.	7.60
0-30	856.63	N.A.	15.70
0-40	1341.04	N.A.	24.60
0-60	2158.7	N.A.	39.60
0-80	2561.82	N.A.	47.00
0-90	2604.28	N.A.	47.70
10-90	2494.35	N.A.	45.70
20-40	924.08	N.A.	16.90
20-50	1373.32	N.A.	25.20
40-70	1078.04	N.A.	19.80
60-80	403.12	N.A.	7.40
70-80	142.74	N.A.	2.60
80-90	42.47	N.A.	0.80
90-110	141.65	N.A.	2.60
90-120	366.82	N.A.	6.70
90-130	777.13	N.A.	14.20
90-150	1932.34	N.A.	35.40
90-180	2851.96	N.A.	52.30
110-180	2710.32	N.A.	49.70
0-180	5456.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.94
10-20	307.02
20-30	439.67
30-40	484.41
40-50	449.24
50-60	368.42
60-70	260.38
70-80	142.74
80-90	42.47
90-100	32.20
100-110	109.44
110-120	225.18
120-130	410.31
130-140	569.04
140-150	586.17
150-160	487.64
160-170	320.54
170-180	111.45

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-L8-940U-L8-940D-FA-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	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-L8-940U-L8-940D-FA-F-DIM-UNV_.IES

UGR TABLE - CORRECTED

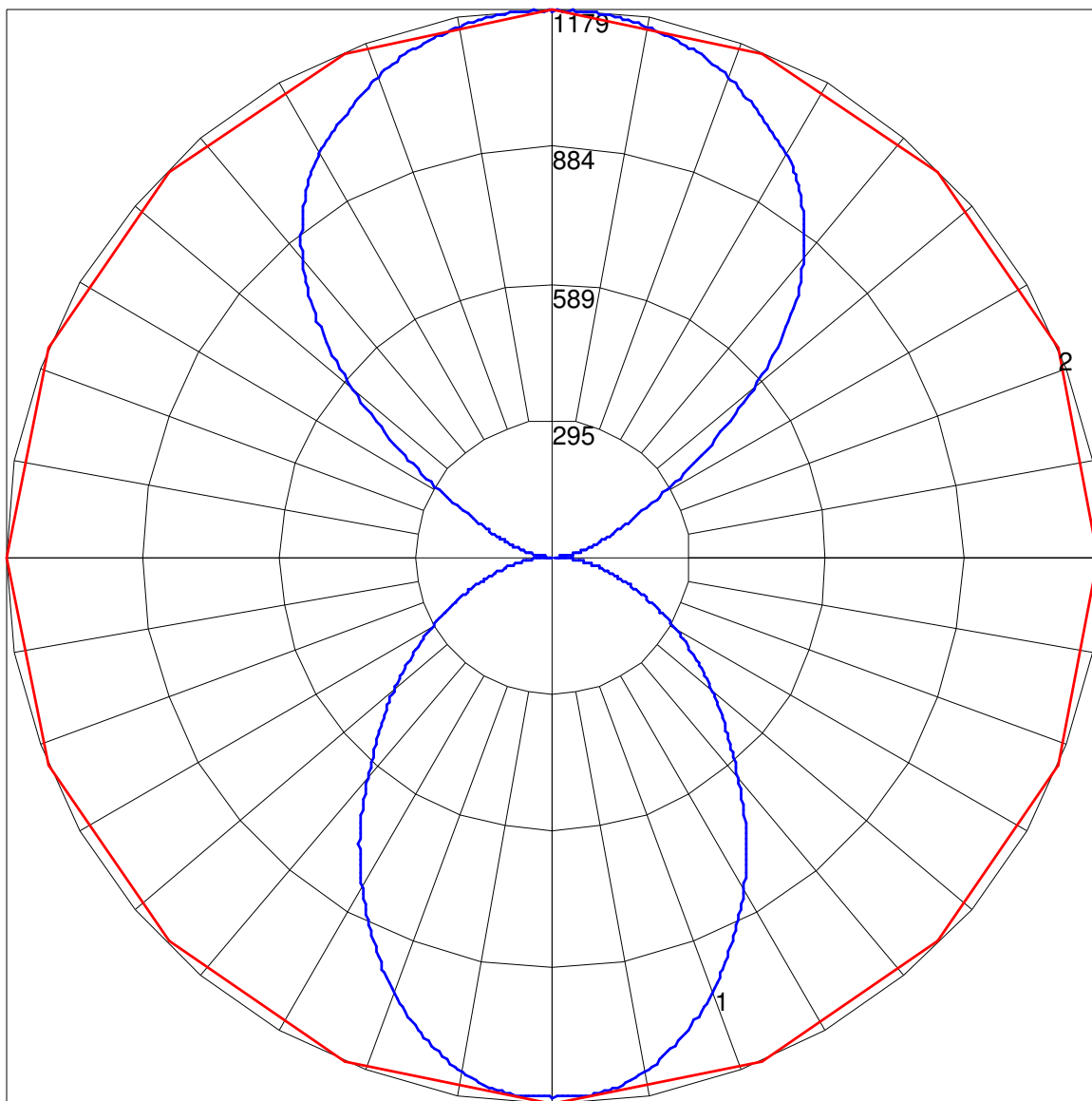
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.8	12.6	12.8	13.6	14.9	12.9	13.7	13.9	14.7	16.0
	3H	12.9	13.6	13.9	14.6	15.9	14.4	15.1	15.4	16.1	17.5
	4H	13.2	13.9	14.2	14.9	16.2	14.9	15.6	15.9	16.6	17.9
	6H	13.3	13.9	14.3	14.9	16.3	15.3	15.9	16.3	16.9	18.3
	8H	13.3	13.9	14.3	14.9	16.3	15.4	16.0	16.4	17.0	18.4
	12H	13.3	13.9	14.3	14.9	16.2	15.5	16.1	16.5	17.1	18.4
4H	2H	12.1	12.9	13.2	13.9	15.2	13.1	13.8	14.1	14.8	16.1
	3H	13.4	14.0	14.4	15.0	16.4	14.7	15.3	15.7	16.3	17.7
	4H	13.8	14.3	14.8	15.3	16.7	15.3	15.8	16.3	16.9	18.2
	6H	14.0	14.4	15.0	15.5	16.9	15.8	16.2	16.8	17.3	18.6
	8H	14.0	14.4	15.0	15.5	16.9	15.9	16.3	16.9	17.4	18.7
	12H	14.0	14.4	15.0	15.4	16.8	16.0	16.4	17.1	17.4	18.8
8H	4H	13.9	14.3	14.9	15.4	16.7	15.3	15.7	16.3	16.8	18.2
	6H	14.2	14.5	15.2	15.6	17.0	15.8	16.2	16.9	17.3	18.6
	8H	14.2	14.5	15.3	15.6	17.0	16.0	16.3	17.1	17.4	18.8
	12H	14.2	14.5	15.3	15.6	17.0	16.1	16.4	17.2	17.5	18.9
12H	4H	13.9	14.3	14.9	15.3	16.7	15.3	15.7	16.3	16.7	18.1
	6H	14.2	14.5	15.2	15.5	16.9	15.8	16.1	16.9	17.2	18.6
	8H	14.2	14.5	15.3	15.6	17.0	16.0	16.3	17.1	17.3	18.8

Maximum UGR = 18.9

POLAR GRAPH



Maximum Candela = 1178.851 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.)