



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13052732.23
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 25 JUN 2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2UD-8'00-L4/835U/L4/835D-FWF-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, frosted lens enclosure
 [LAMP] 144 White LEDs
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Architectural, Commercial, Indirect, Linear
 [SEARCH_MOUNTING] Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	49.2
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)	8.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8229	7531	6903
55	7260	6600	5977
65	6382	5741	5198
75	5262	4821	4475
85	3796	4082	4174

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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	1316.000	1316.000	1316.000	1316.000	1316.000
0.5	1314.000	1324.000	1313.000	1313.000	1311.000
1.0	1313.000	1324.000	1313.000	1313.000	1311.000
1.5	1313.000	1323.000	1313.000	1313.000	1311.000
2.0	1313.000	1323.000	1312.000	1313.000	1311.000
2.5	1312.000	1322.000	1312.000	1313.000	1311.000
3.0	1311.000	1322.000	1311.000	1313.000	1310.000
3.5	1310.000	1321.000	1310.000	1312.000	1309.000
4.0	1309.000	1320.000	1309.000	1311.000	1308.000
4.5	1308.000	1319.000	1307.000	1310.000	1307.000
5.0	1306.000	1317.000	1306.000	1309.000	1305.000
5.5	1305.000	1316.000	1304.000	1307.000	1304.000
6.0	1303.000	1314.000	1303.000	1305.000	1302.000
6.5	1301.000	1312.000	1301.000	1302.000	1299.000
7.0	1299.000	1310.000	1299.000	1299.000	1296.000
7.5	1297.000	1308.000	1297.000	1296.000	1293.000
8.0	1295.000	1306.000	1294.000	1292.000	1290.000
8.5	1292.000	1303.000	1292.000	1289.000	1286.000
9.0	1289.000	1301.000	1289.000	1285.000	1282.000
9.5	1287.000	1298.000	1286.000	1281.000	1277.000
10.0	1284.000	1295.000	1282.000	1276.000	1272.000
10.5	1281.000	1292.000	1279.000	1272.000	1267.000
11.0	1278.000	1289.000	1274.000	1267.000	1261.000
11.5	1274.000	1285.000	1270.000	1262.000	1256.000
12.0	1271.000	1282.000	1266.000	1257.000	1250.000
12.5	1267.000	1278.000	1261.000	1251.000	1244.000
13.0	1263.000	1274.000	1256.000	1246.000	1238.000
13.5	1259.000	1270.000	1251.000	1240.000	1233.000
14.0	1255.000	1266.000	1246.000	1234.000	1226.000
14.5	1250.000	1261.000	1240.000	1228.000	1219.000
15.0	1245.000	1256.000	1234.000	1221.000	1213.000
15.5	1241.000	1252.000	1228.000	1214.000	1206.000
16.0	1236.000	1246.000	1222.000	1208.000	1199.000
16.5	1231.000	1241.000	1216.000	1201.000	1192.000
17.0	1226.000	1235.000	1209.000	1193.000	1184.000
17.5	1221.000	1230.000	1202.000	1186.000	1177.000
18.0	1215.000	1224.000	1195.000	1178.000	1169.000
18.5	1210.000	1218.000	1188.000	1171.000	1161.000
19.0	1204.000	1212.000	1181.000	1163.000	1153.000
19.5	1198.000	1205.000	1174.000	1155.000	1145.000
20.0	1192.000	1199.000	1166.000	1147.000	1137.000
20.5	1186.000	1192.000	1158.000	1138.000	1128.000
21.0	1179.000	1185.000	1151.000	1129.000	1119.000
21.5	1173.000	1178.000	1143.000	1120.000	1110.000
22.0	1166.000	1171.000	1135.000	1111.000	1100.000
22.5	1160.000	1164.000	1127.000	1102.000	1090.000
23.0	1153.000	1157.000	1118.000	1092.000	1081.000
23.5	1146.000	1149.000	1110.000	1083.000	1070.000
24.0	1138.000	1142.000	1102.000	1073.000	1060.000
24.5	1131.000	1134.000	1093.000	1063.000	1050.000
25.0	1123.000	1126.000	1084.000	1054.000	1040.000
25.5	1116.000	1117.000	1076.000	1044.000	1030.000
26.0	1107.000	1109.000	1066.000	1033.000	1020.000
26.5	1099.000	1100.000	1057.000	1023.000	1010.000

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27.0	1090.000	1092.000	1048.000	1014.000	999.900
27.5	1082.000	1083.000	1038.000	1004.000	989.600
28.0	1073.000	1074.000	1029.000	993.100	979.700
28.5	1064.000	1065.000	1019.000	983.200	969.600
29.0	1055.000	1055.000	1009.000	973.200	959.700
29.5	1044.000	1046.000	998.800	962.900	949.000
30.0	1035.000	1036.000	988.600	953.100	938.500
30.5	1026.000	1026.000	978.000	942.400	928.000
31.0	1016.000	1016.000	967.300	932.100	917.600
31.5	1006.000	1006.000	956.600	921.200	906.400
32.0	996.300	995.700	945.900	910.200	895.600
32.5	986.400	984.700	935.000	899.000	885.000
33.0	976.500	974.100	924.100	887.800	873.600
33.5	966.400	963.200	913.100	876.400	862.800
34.0	956.200	952.200	901.700	865.000	851.000
34.5	945.900	941.100	890.800	853.400	839.600
35.0	935.900	930.200	879.500	841.600	827.900
35.5	925.400	919.300	868.100	830.200	815.700
36.0	914.700	907.900	857.000	818.200	803.400
36.5	904.800	896.800	845.500	806.200	790.500
37.0	893.900	885.700	833.700	794.200	777.700
37.5	883.100	874.600	822.100	782.100	765.000
38.0	872.600	863.300	810.300	770.000	752.300
38.5	861.700	852.300	798.700	757.500	741.700
39.0	850.600	841.200	787.300	746.000	731.300
39.5	839.500	830.200	775.800	736.300	719.200
40.0	828.200	819.300	764.200	725.300	707.400
40.5	817.100	808.300	753.000	713.500	696.000
41.0	806.200	797.500	744.200	702.100	685.000
41.5	795.000	786.600	733.600	691.100	674.300
42.0	784.000	775.500	723.700	680.300	664.000
42.5	772.800	764.600	712.800	670.000	654.000
43.0	762.000	753.500	702.300	659.900	644.300
43.5	751.600	744.900	691.900	650.000	634.700
44.0	742.500	735.000	681.700	640.300	625.300
44.5	733.800	724.500	671.600	630.700	615.800
45.0	722.900	714.200	661.600	621.300	606.400
45.5	712.300	703.400	651.700	611.900	597.100
46.0	701.700	692.700	641.900	602.600	587.700
46.5	691.200	682.100	632.200	593.200	578.500
47.0	680.600	671.700	622.500	583.900	569.200
47.5	670.100	661.300	612.700	574.400	559.900
48.0	659.800	650.900	602.900	565.000	550.700
48.5	649.600	640.600	593.000	555.700	541.500
49.0	639.400	630.300	583.100	546.400	532.400
49.5	629.200	620.200	573.100	537.200	523.400
50.0	619.000	610.000	563.300	528.000	514.400
50.5	608.800	599.800	553.500	518.900	505.500
51.0	598.600	589.700	543.800	509.900	496.600
51.5	588.200	579.600	534.200	500.800	487.700
52.0	578.000	569.300	524.700	491.800	478.800
52.5	567.700	559.300	515.500	482.800	470.000
53.0	557.600	549.300	506.300	473.900	461.100
53.5	547.500	539.400	497.300	465.000	452.200
54.0	537.400	529.600	488.200	456.100	443.400
54.5	527.300	519.900	479.200	447.200	434.600

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55.0	517.300	510.200	470.300	438.400	425.900
55.5	507.500	500.600	461.400	429.700	417.300
56.0	497.800	490.900	452.500	421.200	408.800
56.5	488.200	481.300	443.600	412.700	400.600
57.0	478.800	471.800	434.600	404.300	392.500
57.5	469.400	462.500	425.700	396.000	384.500
58.0	460.200	453.300	416.800	387.700	376.600
58.5	451.000	444.100	408.000	379.500	368.700
59.0	441.800	435.000	399.400	371.400	360.900
59.5	432.700	425.900	390.700	363.500	353.200
60.0	423.800	416.800	382.100	355.700	345.600
60.5	414.800	407.800	373.700	347.900	337.900
61.0	405.900	398.900	365.400	340.200	330.400
61.5	396.900	390.200	357.100	332.500	323.000
62.0	388.000	381.500	348.900	325.000	315.800
62.5	379.100	372.900	340.800	317.600	308.500
63.0	370.300	364.200	332.800	310.200	301.300
63.5	361.500	355.500	324.900	302.800	294.200
64.0	352.700	346.800	317.000	295.600	287.100
64.5	343.900	338.100	309.200	288.300	280.000
65.0	335.100	329.500	301.400	281.100	272.900
65.5	326.400	321.000	293.700	273.800	265.900
66.0	317.700	312.500	286.000	266.600	259.300
66.5	309.000	304.100	278.300	259.400	252.300
67.0	300.500	295.500	270.600	252.200	245.400
67.5	291.900	287.000	262.900	245.100	238.400
68.0	283.300	278.500	255.300	238.000	231.600
68.5	274.800	270.100	247.600	231.000	224.800
69.0	266.300	261.800	240.000	224.100	218.100
69.5	257.700	253.500	232.400	217.200	211.400
70.0	249.400	245.200	225.000	210.400	204.900
70.5	241.100	237.000	217.600	203.700	198.400
71.0	232.800	228.700	210.300	197.000	192.000
71.5	224.700	220.700	203.000	190.500	185.700
72.0	216.600	212.700	195.800	184.000	179.500
72.5	208.600	204.900	188.800	177.600	173.400
73.0	200.600	197.100	181.900	171.300	167.300
73.5	192.600	189.400	175.000	165.000	161.300
74.0	184.700	181.700	168.200	158.800	155.400
74.5	176.900	174.100	161.600	152.800	149.600
75.0	169.200	166.700	155.000	146.800	143.900
75.5	161.600	159.300	148.500	140.900	138.300
76.0	154.000	152.200	142.000	135.000	132.700
76.5	146.600	145.000	135.700	129.200	127.200
77.0	139.200	138.000	129.400	123.600	121.800
77.5	132.000	131.000	123.400	118.000	116.400
78.0	124.900	124.200	117.400	112.600	111.100
78.5	117.900	117.500	111.500	107.200	105.900
79.0	111.100	110.900	105.800	102.000	100.800
79.5	104.300	104.600	100.100	96.800	95.800
80.0	97.800	98.400	94.400	91.600	90.800
80.5	91.400	92.300	89.000	86.600	85.900
81.0	85.200	86.300	83.700	81.600	81.100
81.5	79.100	80.500	78.300	76.700	76.300
82.0	73.200	74.700	73.200	71.900	71.700
82.5	67.400	69.100	68.000	67.200	67.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	61.900	63.600	63.000	62.600	62.500
83.5	56.400	58.300	58.100	58.000	58.000
84.0	51.200	53.200	53.300	53.500	53.700
84.5	46.100	48.200	48.700	49.200	49.400
85.0	41.100	43.300	44.200	44.900	45.200
85.5	36.400	38.600	39.800	40.700	41.200
86.0	31.800	34.000	35.500	36.600	37.100
86.5	27.400	29.700	31.300	32.600	33.300
87.0	23.100	25.400	27.200	28.700	29.500
87.5	18.900	21.300	23.300	24.900	25.700
88.0	14.800	17.300	19.400	21.100	22.100
88.5	10.800	13.300	15.500	17.500	18.600
89.0	6.700	9.200	11.500	13.300	14.400
89.5	2.700	5.000	6.500	7.300	8.000
90.0	4.168	9.139	9.249	11.141	11.739
90.5	6.046	9.118	6.740	7.334	7.632
91.0	9.713	11.993	8.226	8.028	8.226
91.5	14.669	15.362	10.407	8.920	8.821
92.0	20.021	18.931	13.876	10.605	10.110
92.5	26.067	22.499	18.831	12.786	12.191
93.0	32.212	26.661	24.481	15.759	14.768
93.5	38.158	32.013	30.428	20.219	18.237
94.0	44.006	38.357	35.780	26.166	22.598
94.5	49.854	44.799	40.537	33.005	28.346
95.0	55.800	51.935	45.195	40.240	34.987
95.5	61.549	58.972	50.250	47.079	42.321
96.0	67.198	65.513	56.098	53.224	49.556
96.5	72.749	72.154	63.135	59.071	56.098
97.0	78.398	79.290	71.163	65.216	62.342
97.5	84.246	86.625	80.083	71.758	68.982
98.0	89.697	94.157	89.201	78.299	75.524
98.5	95.247	101.888	97.923	85.534	81.966
99.0	100.699	109.420	106.447	94.058	88.805
99.5	106.447	116.656	114.971	103.771	96.536
100.0	111.997	123.990	123.990	114.277	105.753
100.5	116.953	131.126	133.207	124.684	115.764
101.0	122.305	138.262	142.921	134.397	126.369
101.5	127.756	145.299	152.832	143.614	136.676
102.0	132.910	152.237	163.140	152.634	146.191
102.5	138.361	159.373	173.844	161.653	155.706
103.0	144.308	166.311	185.143	170.771	164.924
103.5	149.363	173.051	196.937	179.989	173.943
104.0	153.724	180.385	208.731	189.107	182.962
104.5	158.779	188.017	220.724	198.721	192.180
105.0	163.833	195.549	232.618	208.731	201.397
105.5	168.888	202.388	245.106	218.940	210.912
106.0	173.745	209.227	257.495	229.545	220.724
106.5	178.205	216.066	270.479	240.348	230.734
107.0	182.764	223.004	283.661	252.143	240.646
107.5	187.521	230.239	296.942	264.631	251.548
108.0	191.684	237.276	310.322	277.516	262.847
108.5	196.541	244.115	323.900	290.896	274.641
109.0	202.091	250.953	337.479	304.672	286.931
109.5	207.938	257.792	350.859	318.746	299.816
110.0	212.993	264.532	363.942	333.118	313.097
110.5	216.958	271.569	377.025	347.786	326.874

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111.0	220.823	278.606	390.306	362.455	341.245
111.5	224.589	285.445	402.992	377.619	355.914
112.0	228.257	292.283	415.778	393.081	370.979
112.5	232.320	299.221	428.167	408.642	386.440
113.0	236.582	306.159	440.853	424.599	402.001
113.5	240.844	312.998	453.143	440.952	418.157
114.0	245.106	319.738	465.136	457.108	434.411
114.5	249.368	326.675	476.831	473.065	450.963
115.0	253.431	333.514	488.427	489.220	467.614
115.5	257.495	340.353	500.024	505.574	484.760
116.0	261.658	347.093	511.322	521.432	501.907
116.5	265.424	353.832	522.720	537.191	519.152
117.0	269.388	360.572	533.821	552.553	536.299
117.5	273.353	367.213	544.723	567.817	553.148
118.0	277.119	374.051	555.428	582.783	569.898
118.5	280.885	380.692	566.033	597.253	586.351
119.0	284.652	387.233	576.539	611.129	602.308
119.5	288.418	393.676	586.648	624.509	617.770
120.0	292.085	400.217	596.857	637.295	632.736
120.5	295.752	406.759	606.867	649.684	647.305
121.0	299.320	413.201	616.878	661.577	661.577
121.5	302.888	419.643	626.690	672.975	674.958
122.0	306.357	425.887	636.304	683.878	688.140
122.5	309.826	432.330	645.620	694.384	700.727
123.0	313.295	438.673	654.739	704.790	713.215
123.5	316.665	445.214	663.659	715.098	725.208
124.0	320.035	451.558	672.282	724.811	736.705
124.5	323.504	458.000	680.508	734.326	747.805
125.0	326.675	464.541	688.437	743.544	758.708
125.5	330.045	470.984	696.465	752.563	769.214
126.0	333.217	477.426	704.196	761.582	779.224
126.5	336.488	483.769	711.927	770.106	788.937
127.0	339.857	490.112	719.360	778.431	798.551
127.5	343.128	496.257	726.893	786.558	807.570
128.0	346.498	502.204	734.326	794.686	816.292
128.5	349.967	508.151	741.760	802.417	824.618
129.0	353.436	514.197	748.995	810.147	832.943
129.5	357.004	520.144	756.230	817.779	840.773
130.0	360.770	525.694	763.564	825.113	848.603
130.5	364.735	531.046	770.601	832.448	856.235
131.0	368.898	536.200	777.440	839.485	863.470
131.5	372.862	541.354	784.180	846.423	870.507
132.0	376.628	546.210	790.820	853.162	877.445
132.5	380.295	551.067	797.263	859.605	884.284
133.0	383.963	555.824	803.606	865.750	890.726
133.5	387.233	560.581	809.453	871.795	896.970
134.0	390.504	565.042	815.598	877.742	902.917
134.5	393.775	569.502	821.347	883.193	908.864
135.0	397.145	574.160	826.798	888.645	914.414
135.5	400.118	578.818	832.150	893.898	919.667
136.0	403.190	583.377	837.205	899.151	924.920
136.5	406.362	587.937	842.161	904.304	929.975
137.0	409.435	592.496	846.621	909.260	934.732
137.5	412.804	597.055	851.180	914.117	939.291
138.0	416.372	601.515	855.541	918.775	943.949
138.5	419.941	605.678	859.605	923.532	948.509

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	423.707	610.138	863.470	928.091	952.969
139.5	427.176	614.598	867.236	932.452	956.933
140.0	430.942	619.058	870.903	936.714	961.096
140.5	434.807	623.320	874.571	940.778	964.961
141.0	438.574	627.483	878.039	944.941	968.926
141.5	442.538	631.546	881.409	948.905	972.791
142.0	446.205	635.412	884.482	952.770	976.458
142.5	450.071	639.178	887.554	956.636	980.126
143.0	453.936	642.944	890.528	960.402	983.694
143.5	458.000	646.512	893.501	964.069	987.361
144.0	462.063	650.080	896.276	967.637	991.028
144.5	465.929	653.450	898.754	971.205	994.100
145.0	469.794	656.721	901.331	974.873	998.065
145.5	473.957	659.992	903.809	978.441	1001.038
146.0	478.318	663.262	906.287	981.910	1005.003
146.5	482.481	666.335	908.566	985.279	1007.976
147.0	486.445	669.011	910.648	988.748	1010.950
147.5	490.410	671.786	912.531	992.118	1014.914
148.0	494.672	674.660	914.315	995.092	1017.888
148.5	499.132	677.138	915.801	998.065	1020.861
149.0	503.493	679.814	917.189	1001.038	1023.834
149.5	507.953	682.391	917.982	1004.012	1027.799
150.0	512.512	684.770	918.577	1005.994	1030.772
150.5	517.368	687.148	919.072	1007.976	1032.754
151.0	522.027	689.329	919.469	1009.959	1035.728
151.5	526.883	691.608	919.865	1011.941	1037.710
152.0	531.740	693.888	919.865	1012.932	1039.692
152.5	536.794	695.771	919.865	1013.923	1041.675
153.0	542.047	697.853	919.370	1013.923	1042.666
153.5	547.201	699.736	918.577	1014.914	1043.657
154.0	552.058	701.718	917.685	1013.923	1043.657
154.5	557.311	703.700	916.396	1013.923	1043.657
155.0	562.663	705.782	915.207	1012.932	1042.666
155.5	568.114	707.764	913.720	1011.941	1041.675
156.0	573.763	709.548	912.134	1010.950	1040.683
156.5	579.016	711.233	910.350	1009.959	1038.701
157.0	584.765	713.314	908.467	1007.976	1036.719
157.5	590.613	714.999	906.386	1005.994	1034.737
158.0	596.460	716.684	904.106	1003.021	1032.754
158.5	602.011	718.270	901.430	1000.047	1029.781
159.0	607.264	719.756	898.754	997.074	1026.808
159.5	612.715	721.342	895.682	993.109	1022.843
160.0	618.067	722.730	892.609	989.640	1019.870
160.5	623.320	724.117	889.239	985.478	1015.905
161.0	628.672	725.406	885.770	980.819	1011.941
161.5	633.925	726.595	882.202	976.062	1007.976
162.0	639.178	727.983	878.238	970.908	1003.021
162.5	644.629	729.073	874.273	965.457	998.065
163.0	649.882	730.362	870.210	959.609	992.118
163.5	655.135	731.452	865.849	953.663	985.775
164.0	660.289	732.542	861.389	947.418	979.234
164.5	665.145	733.731	856.829	940.877	972.296
165.0	669.705	734.822	852.270	934.038	965.060
165.5	674.561	735.813	847.612	927.001	957.330
166.0	679.319	736.804	842.854	919.667	949.401
166.5	683.779	737.696	838.097	912.233	941.174

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	688.239	738.687	833.340	904.602	932.651
167.5	692.600	739.678	828.582	896.772	923.929
168.0	696.961	740.570	823.825	888.843	914.909
168.5	701.322	741.363	819.067	880.716	905.890
169.0	705.484	742.057	814.409	872.489	896.574
169.5	709.548	742.850	809.949	864.362	887.059
170.0	713.413	743.643	805.390	856.136	877.643
170.5	717.180	744.436	801.029	847.909	868.326
171.0	720.549	745.328	796.767	839.881	859.010
171.5	723.721	745.922	792.505	831.952	850.090
172.0	726.893	746.715	788.541	824.221	840.971
172.5	729.965	747.310	784.675	816.788	832.051
173.0	732.740	747.905	781.008	809.453	823.528
173.5	735.317	748.400	777.539	802.516	815.202
174.0	737.696	748.896	774.268	796.172	807.273
174.5	739.975	749.391	771.295	789.829	799.939
175.0	742.057	749.887	768.421	784.180	792.803
175.5	743.940	750.382	765.844	778.828	786.063
176.0	745.625	750.680	763.366	773.971	780.017
176.5	747.211	751.076	761.285	769.610	774.566
177.0	748.499	751.373	759.402	765.745	769.808
177.5	749.689	751.572	757.816	762.375	765.646
178.0	750.581	751.770	756.527	759.699	762.276
178.5	751.373	751.869	755.536	757.419	759.600
179.0	751.968	751.968	754.842	755.834	757.618
179.5	752.265	752.067	754.446	754.942	756.527
180.0	753.851	753.851	753.851	753.851	753.851

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	471.66	N.A.	7.90
0-30	970.94	N.A.	16.20
0-40	1522.11	N.A.	25.40
0-60	2458.99	N.A.	41.00
0-80	2926.61	N.A.	48.80
0-90	2976.53	N.A.	49.70
10-90	2852.37	N.A.	47.60
20-40	1050.45	N.A.	17.50
20-50	1563.98	N.A.	26.10
40-70	1238.15	N.A.	20.70
60-80	467.62	N.A.	7.80
70-80	166.35	N.A.	2.80
80-90	49.91	N.A.	0.80
90-110	273.40	N.A.	4.60
90-120	685.94	N.A.	11.40
90-130	1229.3	N.A.	20.50
90-150	2308.35	N.A.	38.50
90-180	3015.77	N.A.	50.30
110-180	2742.37	N.A.	45.80
0-180	5992.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.16
10-20	347.50
20-30	499.28
30-40	551.17
40-50	513.53
50-60	423.35
60-70	301.27
70-80	166.35
80-90	49.91
90-100	54.88
100-110	218.52
110-120	412.55
120-130	543.36
130-140	567.55
140-150	511.50
150-160	396.26
160-170	236.83
170-180	74.33

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-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	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	49	48	44	42	39	37	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	35	33	30	27
5	69	57	49	44	63	53	46	41	46	40	36	39	34	31	32	29	27	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	24	27	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-L4-835U-L4-835D-FWF-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

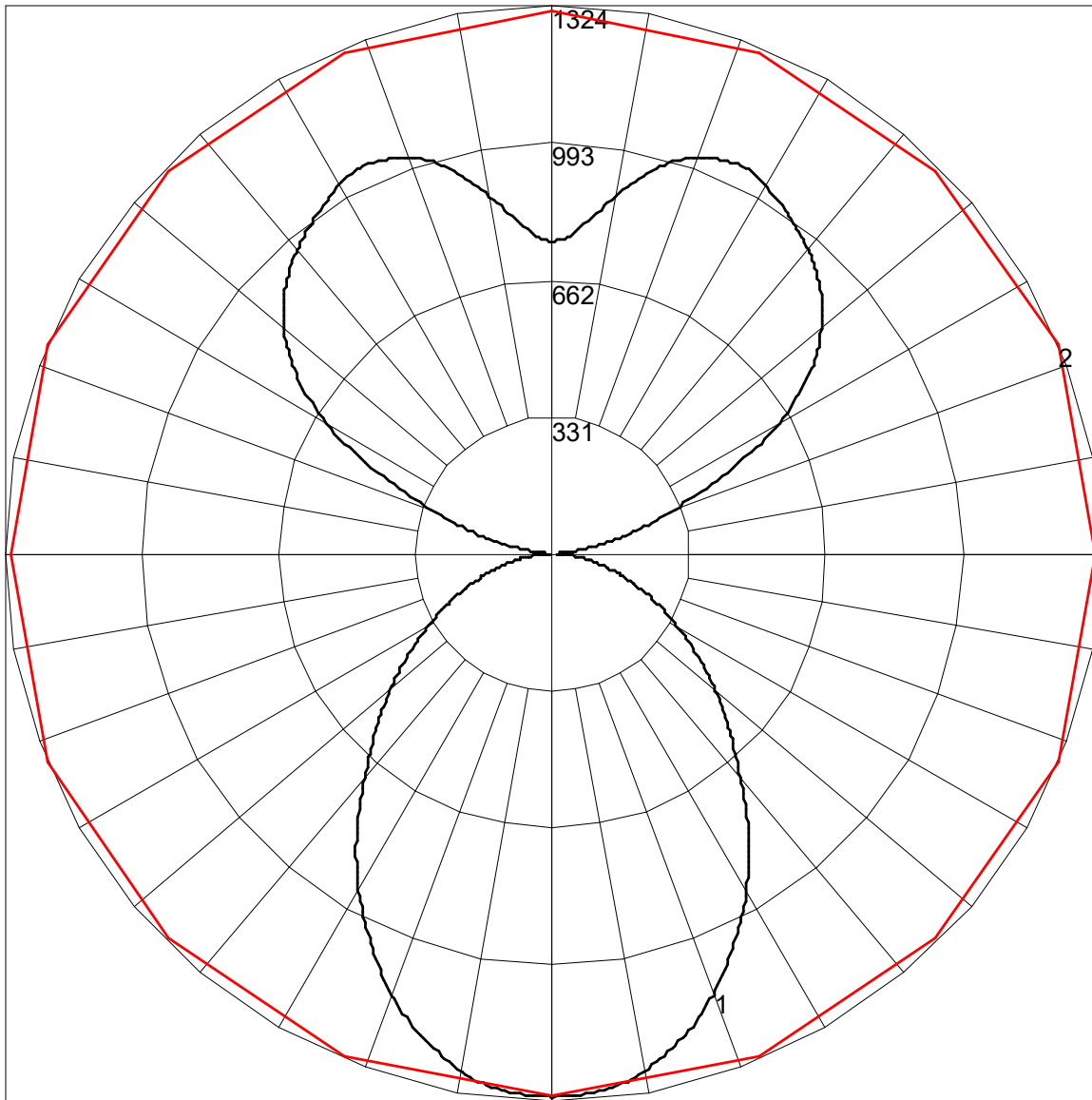
X=2H	Y=2H	14.9	15.7	15.8	16.7	18.0	13.7	14.6	14.7	15.6	16.8
	3H	16.5	17.2	17.5	18.2	19.5	15.3	16.1	16.3	17.0	18.3
	4H	17.0	17.7	18.0	18.7	20.0	15.9	16.6	16.9	17.6	18.9
	6H	17.4	18.1	18.4	19.1	20.4	16.3	17.0	17.3	18.0	19.3
	8H	17.5	18.1	18.5	19.2	20.5	16.5	17.1	17.5	18.1	19.4
	12H	17.6	18.2	18.6	19.2	20.5	16.6	17.2	17.6	18.2	19.5

UGR Viewed Endwise

4H	2H	15.2	16.0	16.2	16.9	18.3	14.3	15.0	15.3	16.0	17.3
	3H	17.1	17.7	18.1	18.7	20.0	16.1	16.7	17.1	17.7	19.0
	4H	17.8	18.3	18.8	19.3	20.7	16.8	17.3	17.8	18.3	19.7
	6H	18.3	18.7	19.3	19.8	21.1	17.3	17.8	18.4	18.8	20.2
	8H	18.4	18.9	19.4	19.9	21.2	17.5	18.0	18.6	19.0	20.4
	12H	18.5	18.9	19.6	20.0	21.3	17.7	18.1	18.7	19.1	20.5
8H	4H	17.9	18.4	18.9	19.4	20.7	17.1	17.5	18.1	18.5	19.9
	6H	18.6	18.9	19.6	20.0	21.3	17.7	18.1	18.8	19.2	20.5
	8H	18.8	19.1	19.8	20.2	21.5	18.0	18.4	19.1	19.4	20.8
	12H	19.0	19.3	20.0	20.3	21.7	18.3	18.6	19.3	19.6	21.0
12H	4H	17.9	18.3	19.0	19.4	20.7	17.1	17.5	18.1	18.5	19.9
	6H	18.6	18.9	19.6	20.0	21.4	17.8	18.1	18.8	19.2	20.6
	8H	18.9	19.2	19.9	20.2	21.6	18.1	18.4	19.2	19.5	20.9

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1324 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)