



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13012869.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 25-JUN-2020

[MANUFAC] H E Williams Inc

[LUMCAT] MX2D-8'00-L4/835-F-DIM-UNV

[LUMINAIRE] Formed White aluminum housing, frosted plastic lens

[LAMP] 144 White 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	2976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	25.3
Ballast Factor	1.10
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	1316.0	1316.0	1316.0	1316.0	1316.0
0.5	1314.0	1324.0	1313.0	1313.0	1311.0
1.0	1313.0	1324.0	1313.0	1313.0	1311.0
1.5	1313.0	1323.0	1313.0	1313.0	1311.0
2.0	1313.0	1323.0	1312.0	1313.0	1311.0
2.5	1312.0	1322.0	1312.0	1313.0	1311.0
3.0	1311.0	1322.0	1311.0	1313.0	1310.0
3.5	1310.0	1321.0	1310.0	1312.0	1309.0
4.0	1309.0	1320.0	1309.0	1311.0	1308.0
4.5	1308.0	1319.0	1307.0	1310.0	1307.0
5.0	1306.0	1317.0	1306.0	1309.0	1305.0
5.5	1305.0	1316.0	1304.0	1307.0	1304.0
6.0	1303.0	1314.0	1303.0	1305.0	1302.0
6.5	1301.0	1312.0	1301.0	1302.0	1299.0
7.0	1299.0	1310.0	1299.0	1299.0	1296.0
7.5	1297.0	1308.0	1297.0	1296.0	1293.0
8.0	1295.0	1306.0	1294.0	1292.0	1290.0
8.5	1292.0	1303.0	1292.0	1289.0	1286.0
9.0	1289.0	1301.0	1289.0	1285.0	1282.0
9.5	1287.0	1298.0	1286.0	1281.0	1277.0
10.0	1284.0	1295.0	1282.0	1276.0	1272.0
10.5	1281.0	1292.0	1279.0	1272.0	1267.0
11.0	1278.0	1289.0	1274.0	1267.0	1261.0
11.5	1274.0	1285.0	1270.0	1262.0	1256.0
12.0	1271.0	1282.0	1266.0	1257.0	1250.0
12.5	1267.0	1278.0	1261.0	1251.0	1244.0
13.0	1263.0	1274.0	1256.0	1246.0	1238.0
13.5	1259.0	1270.0	1251.0	1240.0	1233.0
14.0	1255.0	1266.0	1246.0	1234.0	1226.0
14.5	1250.0	1261.0	1240.0	1228.0	1219.0
15.0	1245.0	1256.0	1234.0	1221.0	1213.0
15.5	1241.0	1252.0	1228.0	1214.0	1206.0
16.0	1236.0	1246.0	1222.0	1208.0	1199.0
16.5	1231.0	1241.0	1216.0	1201.0	1192.0
17.0	1226.0	1235.0	1209.0	1193.0	1184.0
17.5	1221.0	1230.0	1202.0	1186.0	1177.0
18.0	1215.0	1224.0	1195.0	1178.0	1169.0
18.5	1210.0	1218.0	1188.0	1171.0	1161.0
19.0	1204.0	1212.0	1181.0	1163.0	1153.0
19.5	1198.0	1205.0	1174.0	1155.0	1145.0
20.0	1192.0	1199.0	1166.0	1147.0	1137.0
20.5	1186.0	1192.0	1158.0	1138.0	1128.0
21.0	1179.0	1185.0	1151.0	1129.0	1119.0
21.5	1173.0	1178.0	1143.0	1120.0	1110.0
22.0	1166.0	1171.0	1135.0	1111.0	1100.0
22.5	1160.0	1164.0	1127.0	1102.0	1090.0
23.0	1153.0	1157.0	1118.0	1092.0	1081.0
23.5	1146.0	1149.0	1110.0	1083.0	1070.0
24.0	1138.0	1142.0	1102.0	1073.0	1060.0
24.5	1131.0	1134.0	1093.0	1063.0	1050.0
25.0	1123.0	1126.0	1084.0	1054.0	1040.0
25.5	1116.0	1117.0	1076.0	1044.0	1030.0
26.0	1107.0	1109.0	1066.0	1033.0	1020.0
26.5	1099.0	1100.0	1057.0	1023.0	1010.0

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**CANDELA TABULATION - (Cont.)**

27.0	1090.0	1092.0	1048.0	1014.0	999.9
27.5	1082.0	1083.0	1038.0	1004.0	989.6
28.0	1073.0	1074.0	1029.0	993.1	979.7
28.5	1064.0	1065.0	1019.0	983.2	969.6
29.0	1055.0	1055.0	1009.0	973.2	959.7
29.5	1044.0	1046.0	998.8	962.9	949.0
30.0	1035.0	1036.0	988.6	953.1	938.5
30.5	1026.0	1026.0	978.0	942.4	928.0
31.0	1016.0	1016.0	967.3	932.1	917.6
31.5	1006.0	1006.0	956.6	921.2	906.4
32.0	996.3	995.7	945.9	910.2	895.6
32.5	986.4	984.7	935.0	899.0	885.0
33.0	976.5	974.1	924.1	887.8	873.6
33.5	966.4	963.2	913.1	876.4	862.8
34.0	956.2	952.2	901.7	865.0	851.0
34.5	945.9	941.1	890.8	853.4	839.6
35.0	935.9	930.2	879.5	841.6	827.9
35.5	925.4	919.3	868.1	830.2	815.7
36.0	914.7	907.9	857.0	818.2	803.4
36.5	904.8	896.8	845.5	806.2	790.5
37.0	893.9	885.7	833.7	794.2	777.7
37.5	883.1	874.6	822.1	782.1	765.0
38.0	872.6	863.3	810.3	770.0	752.3
38.5	861.7	852.3	798.7	757.5	741.7
39.0	850.6	841.2	787.3	746.0	731.3
39.5	839.5	830.2	775.8	736.3	719.2
40.0	828.2	819.3	764.2	725.3	707.4
40.5	817.1	808.3	753.0	713.5	696.0
41.0	806.2	797.5	744.2	702.1	685.0
41.5	795.0	786.6	733.6	691.1	674.3
42.0	784.0	775.5	723.7	680.3	664.0
42.5	772.8	764.6	712.8	670.0	654.0
43.0	762.0	753.5	702.3	659.9	644.3
43.5	751.6	744.9	691.9	650.0	634.7
44.0	742.5	735.0	681.7	640.3	625.3
44.5	733.8	724.5	671.6	630.7	615.8
45.0	722.9	714.2	661.6	621.3	606.4
45.5	712.3	703.4	651.7	611.9	597.1
46.0	701.7	692.7	641.9	602.6	587.7
46.5	691.2	682.1	632.2	593.2	578.5
47.0	680.6	671.7	622.5	583.9	569.2
47.5	670.1	661.3	612.7	574.4	559.9
48.0	659.8	650.9	602.9	565.0	550.7
48.5	649.6	640.6	593.0	555.7	541.5
49.0	639.4	630.3	583.1	546.4	532.4
49.5	629.2	620.2	573.1	537.2	523.4
50.0	619.0	610.0	563.3	528.0	514.4
50.5	608.8	599.8	553.5	518.9	505.5
51.0	598.6	589.7	543.8	509.9	496.6
51.5	588.2	579.6	534.2	500.8	487.7
52.0	578.0	569.3	524.7	491.8	478.8
52.5	567.7	559.3	515.5	482.8	470.0
53.0	557.6	549.3	506.3	473.9	461.1
53.5	547.5	539.4	497.3	465.0	452.2
54.0	537.4	529.6	488.2	456.1	443.4
54.5	527.3	519.9	479.2	447.2	434.6

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**CANDELA TABULATION - (Cont.)**

55.0	517.3	510.2	470.3	438.4	425.9
55.5	507.5	500.6	461.4	429.7	417.3
56.0	497.8	490.9	452.5	421.2	408.8
56.5	488.2	481.3	443.6	412.7	400.6
57.0	478.8	471.8	434.6	404.3	392.5
57.5	469.4	462.5	425.7	396.0	384.5
58.0	460.2	453.3	416.8	387.7	376.6
58.5	451.0	444.1	408.0	379.5	368.7
59.0	441.8	435.0	399.4	371.4	360.9
59.5	432.7	425.9	390.7	363.5	353.2
60.0	423.8	416.8	382.1	355.7	345.6
60.5	414.8	407.8	373.7	347.9	337.9
61.0	405.9	398.9	365.4	340.2	330.4
61.5	396.9	390.2	357.1	332.5	323.0
62.0	388.0	381.5	348.9	325.0	315.8
62.5	379.1	372.9	340.8	317.6	308.5
63.0	370.3	364.2	332.8	310.2	301.3
63.5	361.5	355.5	324.9	302.8	294.2
64.0	352.7	346.8	317.0	295.6	287.1
64.5	343.9	338.1	309.2	288.3	280.0
65.0	335.1	329.5	301.4	281.1	272.9
65.5	326.4	321.0	293.7	273.8	265.9
66.0	317.7	312.5	286.0	266.6	259.3
66.5	309.0	304.1	278.3	259.4	252.3
67.0	300.5	295.5	270.6	252.2	245.4
67.5	291.9	287.0	262.9	245.1	238.4
68.0	283.3	278.5	255.3	238.0	231.6
68.5	274.8	270.1	247.6	231.0	224.8
69.0	266.3	261.8	240.0	224.1	218.1
69.5	257.7	253.5	232.4	217.2	211.4
70.0	249.4	245.2	225.0	210.4	204.9
70.5	241.1	237.0	217.6	203.7	198.4
71.0	232.8	228.7	210.3	197.0	192.0
71.5	224.7	220.7	203.0	190.5	185.7
72.0	216.6	212.7	195.8	184.0	179.5
72.5	208.6	204.9	188.8	177.6	173.4
73.0	200.6	197.1	181.9	171.3	167.3
73.5	192.6	189.4	175.0	165.0	161.3
74.0	184.7	181.7	168.2	158.8	155.4
74.5	176.9	174.1	161.6	152.8	149.6
75.0	169.2	166.7	155.0	146.8	143.9
75.5	161.6	159.3	148.5	140.9	138.3
76.0	154.0	152.2	142.0	135.0	132.7
76.5	146.6	145.0	135.7	129.2	127.2
77.0	139.2	138.0	129.4	123.6	121.8
77.5	132.0	131.0	123.4	118.0	116.4
78.0	124.9	124.2	117.4	112.6	111.1
78.5	117.9	117.5	111.5	107.2	105.9
79.0	111.1	110.9	105.8	102.0	100.8
79.5	104.3	104.6	100.1	96.8	95.8
80.0	97.8	98.4	94.4	91.6	90.8
80.5	91.4	92.3	89.0	86.6	85.9
81.0	85.2	86.3	83.7	81.6	81.1
81.5	79.1	80.5	78.3	76.7	76.3
82.0	73.2	74.7	73.2	71.9	71.7
82.5	67.4	69.1	68.0	67.2	67.0

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**CANDELA TABULATION - (Cont.)**

83.0	61.9	63.6	63.0	62.6	62.5
83.5	56.4	58.3	58.1	58.0	58.0
84.0	51.2	53.2	53.3	53.5	53.7
84.5	46.1	48.2	48.7	49.2	49.4
85.0	41.1	43.3	44.2	44.9	45.2
85.5	36.4	38.6	39.8	40.7	41.2
86.0	31.8	34.0	35.5	36.6	37.1
86.5	27.4	29.7	31.3	32.6	33.3
87.0	23.1	25.4	27.2	28.7	29.5
87.5	18.9	21.3	23.3	24.9	25.7
88.0	14.8	17.3	19.4	21.1	22.1
88.5	10.8	13.3	15.5	17.5	18.6
89.0	6.7	9.2	11.5	13.3	14.4
89.5	2.7	5.0	6.5	7.3	8.0
90.0	0.6	2.3	3.5	4.5	4.9
90.5	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0
98.5	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
105.5	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0
106.5	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0
108.5	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0
109.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
110.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

111.0	0.0	0.0	0.0	0.0	0.0
111.5	0.0	0.0	0.0	0.0	0.0
112.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
113.0	0.0	0.0	0.0	0.0	0.0
113.5	0.0	0.0	0.0	0.0	0.0
114.0	0.0	0.0	0.0	0.0	0.0
114.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
115.5	0.0	0.0	0.0	0.0	0.0
116.0	0.0	0.0	0.0	0.0	0.0
116.5	0.0	0.0	0.0	0.0	0.0
117.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
118.0	0.0	0.0	0.0	0.0	0.0
118.5	0.0	0.0	0.0	0.0	0.0
119.0	0.0	0.0	0.0	0.0	0.0
119.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
120.5	0.0	0.0	0.0	0.0	0.0
121.0	0.0	0.0	0.0	0.0	0.0
121.5	0.0	0.0	0.0	0.0	0.0
122.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0
123.0	0.0	0.0	0.0	0.0	0.0
123.5	0.0	0.0	0.0	0.0	0.0
124.0	0.0	0.0	0.0	0.0	0.0
124.5	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
125.5	0.0	0.0	0.0	0.0	0.0
126.0	0.0	0.0	0.0	0.0	0.0
126.5	0.0	0.0	0.0	0.0	0.0
127.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0
128.0	0.0	0.0	0.0	0.0	0.0
128.5	0.0	0.0	0.0	0.0	0.0
129.0	0.0	0.0	0.0	0.0	0.0
129.5	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
130.5	0.0	0.0	0.0	0.0	0.0
131.0	0.0	0.0	0.0	0.0	0.0
131.5	0.0	0.0	0.0	0.0	0.0
132.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0
133.0	0.0	0.0	0.0	0.0	0.0
133.5	0.0	0.0	0.0	0.0	0.0
134.0	0.0	0.0	0.0	0.0	0.0
134.5	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0
135.5	0.0	0.0	0.0	0.0	0.0
136.0	0.0	0.0	0.0	0.0	0.0
136.5	0.0	0.0	0.0	0.0	0.0
137.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0
138.0	0.0	0.0	0.0	0.0	0.0
138.5	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-F-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

139.0	0.0	0.0	0.0	0.0	0.0
139.5	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
140.5	0.0	0.0	0.0	0.0	0.0
141.0	0.0	0.0	0.0	0.0	0.0
141.5	0.0	0.0	0.0	0.0	0.0
142.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0
143.0	0.0	0.0	0.0	0.0	0.0
143.5	0.0	0.0	0.0	0.0	0.0
144.0	0.0	0.0	0.0	0.0	0.0
144.5	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
145.5	0.0	0.0	0.0	0.0	0.0
146.0	0.0	0.0	0.0	0.0	0.0
146.5	0.0	0.0	0.0	0.0	0.0
147.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0
148.0	0.0	0.0	0.0	0.0	0.0
148.5	0.0	0.0	0.0	0.0	0.0
149.0	0.0	0.0	0.0	0.0	0.0
149.5	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
150.5	0.0	0.0	0.0	0.0	0.0
151.0	0.0	0.0	0.0	0.0	0.0
151.5	0.0	0.0	0.0	0.0	0.0
152.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0
153.0	0.0	0.0	0.0	0.0	0.0
153.5	0.0	0.0	0.0	0.0	0.0
154.0	0.0	0.0	0.0	0.0	0.0
154.5	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
155.5	0.0	0.0	0.0	0.0	0.0
156.0	0.0	0.0	0.0	0.0	0.0
156.5	0.0	0.0	0.0	0.0	0.0
157.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0
158.0	0.0	0.0	0.0	0.0	0.0
158.5	0.0	0.0	0.0	0.0	0.0
159.0	0.0	0.0	0.0	0.0	0.0
159.5	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
160.5	0.0	0.0	0.0	0.0	0.0
161.0	0.0	0.0	0.0	0.0	0.0
161.5	0.0	0.0	0.0	0.0	0.0
162.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
163.0	0.0	0.0	0.0	0.0	0.0
163.5	0.0	0.0	0.0	0.0	0.0
164.0	0.0	0.0	0.0	0.0	0.0
164.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
165.5	0.0	0.0	0.0	0.0	0.0
166.0	0.0	0.0	0.0	0.0	0.0
166.5	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-F-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
168.0	0.0	0.0	0.0	0.0	0.0
168.5	0.0	0.0	0.0	0.0	0.0
169.0	0.0	0.0	0.0	0.0	0.0
169.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
170.5	0.0	0.0	0.0	0.0	0.0
171.0	0.0	0.0	0.0	0.0	0.0
171.5	0.0	0.0	0.0	0.0	0.0
172.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
173.0	0.0	0.0	0.0	0.0	0.0
173.5	0.0	0.0	0.0	0.0	0.0
174.0	0.0	0.0	0.0	0.0	0.0
174.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
175.5	0.0	0.0	0.0	0.0	0.0
176.0	0.0	0.0	0.0	0.0	0.0
176.5	0.0	0.0	0.0	0.0	0.0
177.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
178.0	0.0	0.0	0.0	0.0	0.0
178.5	0.0	0.0	0.0	0.0	0.0
179.0	0.0	0.0	0.0	0.0	0.0
179.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-F-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	471.66	N.A.	15.80
0-30	970.94	N.A.	32.60
0-40	1522.11	N.A.	51.10
0-60	2458.99	N.A.	82.60
0-80	2926.61	N.A.	98.30
0-90	2976.36	N.A.	100.00
10-90	2852.2	N.A.	95.80
20-40	1050.45	N.A.	35.30
20-50	1563.98	N.A.	52.50
40-70	1238.15	N.A.	41.60
60-80	467.62	N.A.	15.70
70-80	166.35	N.A.	5.60
80-90	49.74	N.A.	1.70
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2976.45	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	49.74
90-100	0.09
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-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	37	37	37	37	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	34	32	31	30	33	32	30	29	30	29	29	29	28	28	28	27	27	26
2	31	28	26	25	30	28	26	24	27	25	24	26	24	23	25	24	23	22
3	28	25	23	21	28	25	23	21	24	22	20	23	21	20	22	21	20	19
4	26	22	20	18	25	22	20	18	21	19	18	21	19	17	20	18	17	16
5	24	20	18	16	23	20	17	16	19	17	15	19	17	15	18	16	15	14
6	22	18	16	14	22	18	16	14	18	15	14	17	15	14	17	15	13	13
7	21	17	14	12	20	16	14	12	16	14	12	16	14	12	15	13	12	11
8	19	15	13	11	19	15	13	11	15	13	11	14	12	11	14	12	11	10
9	18	14	12	10	18	14	12	10	14	11	10	13	11	10	13	11	10	9
10	17	13	11	9	17	13	11	9	13	11	9	12	10	9	12	10	9	8

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2D-8-00-L4-835-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	22.9	24.5	23.3	24.8	25.1	21.8	23.3	22.1	23.6	23.9
	3H	24.6	26.0	24.9	26.3	26.6	23.4	24.8	23.8	25.1	25.5
	4H	25.1	26.5	25.5	26.8	27.2	24.0	25.3	24.4	25.6	26.0
	6H	25.6	26.8	26.0	27.1	27.5	24.5	25.7	24.9	26.0	26.4
	8H	25.7	26.8	26.1	27.2	27.6	24.6	25.8	25.0	26.2	26.6
	12H	25.8	26.9	26.2	27.3	27.7	24.8	25.9	25.2	26.2	26.7

UGR Viewed Endwise

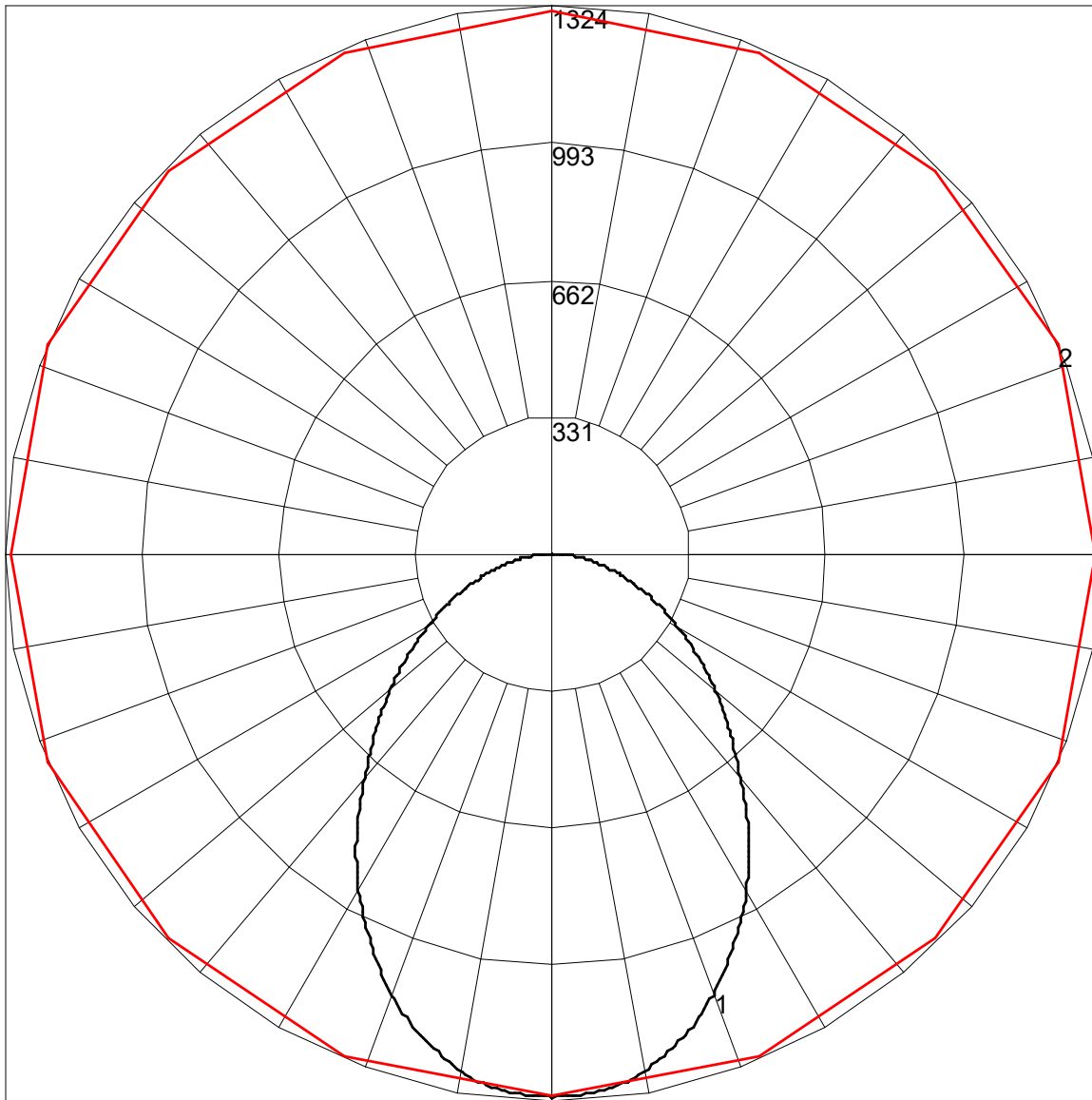
4H	2H	23.4	24.7	23.8	25.0	25.4	22.4	23.8	22.8	24.1	24.5
	3H	25.2	26.3	25.6	26.7	27.1	24.2	25.4	24.7	25.8	26.2
	4H	26.0	26.9	26.4	27.4	27.8	25.0	26.0	25.4	26.4	26.8
	6H	26.5	27.4	27.0	27.8	28.3	25.6	26.4	26.0	26.9	27.3
	8H	26.7	27.5	27.1	27.9	28.4	25.8	26.6	26.3	27.0	27.5
	12H	26.8	27.5	27.3	28.0	28.5	26.0	26.7	26.5	27.2	27.6

8H	4H	26.2	27.0	26.6	27.4	27.9	25.3	26.1	25.8	26.6	27.0
	6H	26.8	27.5	27.3	28.0	28.5	26.0	26.7	26.5	27.2	27.7
	8H	27.1	27.7	27.6	28.2	28.7	26.3	26.9	26.8	27.4	27.9
	12H	27.3	27.8	27.8	28.3	28.9	26.6	27.1	27.1	27.6	28.2

12H	4H	26.2	26.9	26.7	27.4	27.9	25.3	26.1	25.8	26.5	27.0
	6H	26.9	27.5	27.4	28.0	28.5	26.1	26.7	26.6	27.2	27.7
	8H	27.2	27.7	27.7	28.2	28.8	26.4	27.0	27.0	27.5	28.0

Maximum UGR = 28.9

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.)