



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RX-8-00-L4-835-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from UL 13012869.02  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 11/21/2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2Rx-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	3373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	27.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
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	9222	8557	7953
55	8251	7584	6969
65	7276	6658	6125
75	6038	5647	5266
85	4446	4784	4775

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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	1459.944	1459.944	1459.944	1459.944	1459.944
0.5	1457.851	1469.363	1457.851	1456.805	1454.712
1.0	1457.851	1469.363	1456.805	1456.805	1454.712
1.5	1457.851	1468.317	1456.805	1456.805	1453.665
2.0	1457.851	1468.317	1455.758	1455.758	1454.712
2.5	1456.805	1467.270	1454.712	1455.758	1453.665
3.0	1454.712	1466.224	1453.665	1454.712	1452.618
3.5	1454.712	1465.177	1452.618	1454.712	1451.572
4.0	1452.618	1464.131	1450.525	1452.618	1449.479
4.5	1451.572	1462.037	1449.479	1451.572	1447.386
5.0	1450.525	1459.944	1447.386	1449.479	1446.339
5.5	1448.432	1458.898	1445.293	1447.386	1444.246
6.0	1446.339	1456.805	1443.199	1445.293	1441.106
6.5	1444.246	1454.712	1441.106	1442.153	1439.013
7.0	1442.153	1451.572	1439.013	1440.060	1436.920
7.5	1439.013	1449.479	1435.874	1435.874	1433.780
8.0	1436.920	1446.339	1433.780	1432.734	1430.641
8.5	1433.780	1444.246	1430.641	1428.548	1426.455
9.0	1431.687	1441.106	1427.501	1425.408	1422.268
9.5	1428.548	1437.967	1424.361	1420.175	1418.082
10.0	1425.408	1433.780	1420.175	1415.989	1412.849
10.5	1422.268	1430.641	1417.036	1411.803	1407.617
11.0	1418.082	1427.501	1412.849	1406.570	1402.384
11.5	1413.896	1423.315	1408.663	1402.384	1396.104
12.0	1410.756	1419.129	1404.477	1396.104	1390.872
12.5	1406.570	1414.942	1399.244	1390.872	1383.546
13.0	1401.337	1410.756	1394.011	1384.592	1377.266
13.5	1398.198	1406.570	1387.732	1378.313	1370.987
14.0	1392.965	1401.337	1383.546	1372.034	1364.708
14.5	1387.732	1397.151	1377.266	1365.754	1357.382
15.0	1383.546	1390.872	1370.987	1358.428	1351.103
15.5	1378.313	1385.639	1364.708	1352.149	1343.777
16.0	1374.127	1380.406	1358.428	1344.823	1335.404
16.5	1368.894	1375.173	1352.149	1337.497	1328.078
17.0	1364.708	1369.941	1344.823	1330.171	1320.752
17.5	1358.428	1364.708	1337.497	1321.799	1312.380
18.0	1351.103	1359.475	1330.171	1313.427	1304.008
18.5	1344.823	1352.149	1322.846	1306.101	1295.635
19.0	1338.544	1345.870	1315.520	1297.728	1287.263
19.5	1331.218	1338.544	1307.147	1289.356	1277.844
20.0	1324.939	1331.218	1298.775	1279.937	1269.471
20.5	1317.613	1323.892	1291.449	1271.564	1260.052
21.0	1311.333	1316.566	1283.076	1262.145	1250.633
21.5	1305.054	1308.194	1274.704	1252.726	1241.214
22.0	1296.682	1300.868	1267.378	1242.261	1230.749
22.5	1289.356	1293.542	1257.959	1232.842	1220.283
23.0	1282.030	1285.170	1249.587	1222.376	1209.818
23.5	1274.704	1276.797	1241.214	1211.911	1198.306
24.0	1266.332	1269.471	1231.795	1201.445	1187.840
24.5	1257.959	1261.099	1222.376	1190.980	1177.374
25.0	1249.587	1252.726	1212.957	1180.514	1166.909
25.5	1241.214	1243.307	1202.492	1170.049	1156.443
26.0	1231.795	1234.935	1192.026	1159.583	1144.931
26.5	1223.423	1225.516	1182.607	1148.071	1134.466

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**CANDELA TABULATION - (Cont.)**

27.0	1214.004	1216.097	1172.142	1137.605	1122.954
27.5	1204.585	1206.678	1161.676	1127.140	1112.488
28.0	1194.119	1197.259	1152.257	1116.674	1102.022
28.5	1184.700	1186.793	1140.745	1105.162	1090.510
29.0	1174.235	1176.328	1130.279	1094.697	1080.045
29.5	1164.816	1166.909	1119.814	1084.231	1068.533
30.0	1154.350	1156.443	1108.302	1072.719	1058.067
30.5	1143.885	1145.978	1097.836	1062.253	1046.136
31.0	1133.419	1134.466	1086.324	1050.741	1034.938
31.5	1122.954	1122.954	1074.812	1039.229	1023.426
32.0	1111.441	1111.441	1062.253	1027.403	1012.228
32.5	1100.976	1100.976	1050.741	1015.054	1000.088
33.0	1090.510	1088.417	1039.334	1002.914	987.948
33.5	1078.998	1076.905	1027.298	990.460	976.227
34.0	1068.533	1065.393	1015.158	978.110	964.296
34.5	1058.067	1053.881	1003.332	965.761	951.632
35.0	1046.555	1041.846	991.088	952.993	938.969
35.5	1035.671	1029.915	978.843	940.539	925.887
36.0	1024.473	1017.670	966.912	927.876	912.491
36.5	1012.961	1005.949	954.563	914.898	898.991
37.0	1001.867	993.599	942.423	902.340	885.176
37.5	989.936	981.669	929.969	889.258	871.362
38.0	977.901	969.738	917.515	876.385	857.652
38.5	966.180	957.703	905.165	863.617	844.256
39.0	954.354	945.562	892.502	850.431	830.546
39.5	941.900	933.946	879.943	837.767	817.569
40.0	929.550	921.806	867.594	824.685	807.103
40.5	917.933	909.666	855.245	812.964	794.859
41.0	905.270	897.735	843.209	801.557	782.928
41.5	893.235	885.700	830.755	789.207	771.206
42.0	881.199	873.769	818.197	777.381	759.904
42.5	869.059	861.315	807.417	765.764	749.124
43.0	857.443	849.698	797.056	754.462	738.659
43.5	845.930	837.663	785.440	744.205	730.077
44.0	834.000	825.732	773.927	734.472	719.611
44.5	821.755	813.801	762.834	724.530	709.146
45.0	810.138	802.080	751.740	713.960	698.680
45.5	798.417	792.347	742.112	703.494	688.319
46.0	787.114	780.521	732.379	693.133	677.854
46.5	776.125	768.695	721.495	682.668	667.493
47.0	768.381	758.229	710.611	672.307	657.132
47.5	756.869	746.717	699.727	661.841	646.666
48.0	745.357	736.147	688.738	651.481	636.410
48.5	733.844	724.635	677.854	640.910	626.049
49.0	722.542	713.123	666.865	630.549	615.898
49.5	711.239	701.715	655.981	620.189	605.746
50.0	700.041	690.308	645.097	609.932	595.699
50.5	688.738	678.900	634.212	599.781	585.757
51.0	677.435	667.597	623.433	589.629	575.710
51.5	666.132	656.190	612.653	579.373	565.872
52.0	654.829	644.887	602.083	569.221	555.930
52.5	643.527	633.794	591.618	559.174	545.988
53.0	632.119	622.805	581.257	549.127	536.150
53.5	621.026	611.816	571.000	539.081	526.208
54.0	609.932	600.827	560.744	529.138	516.266
54.5	598.943	589.943	550.593	519.196	506.219

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**CANDELA TABULATION - (Cont.)**

55.0	587.955	579.164	540.441	509.463	496.590
55.5	577.070	568.384	530.185	499.730	486.753
56.0	566.186	557.814	520.033	489.997	477.334
56.5	555.511	547.244	509.882	480.369	467.810
57.0	544.837	536.673	499.835	470.845	458.496
57.5	534.371	526.208	489.683	461.426	449.286
58.0	523.801	515.742	479.636	452.112	440.181
58.5	513.545	505.277	469.694	442.797	431.076
59.0	503.184	494.916	459.961	433.692	422.076
59.5	492.823	484.764	450.333	424.587	413.075
60.0	482.462	474.613	440.914	415.587	404.284
60.5	472.206	464.461	431.390	406.691	395.598
61.0	462.054	454.310	421.971	397.900	387.016
61.5	451.902	444.263	412.552	389.109	378.644
62.0	441.751	434.320	403.447	380.527	370.271
62.5	431.704	424.273	394.342	372.050	362.003
63.0	421.552	414.436	385.237	363.573	353.840
63.5	411.505	404.598	376.341	355.201	345.782
64.0	401.563	394.761	367.341	346.724	337.723
64.5	391.726	385.028	358.445	338.351	329.665
65.0	381.993	375.295	349.549	329.979	321.606
65.5	372.260	365.666	340.654	321.606	313.443
66.0	362.422	356.143	331.758	313.339	304.338
66.5	352.794	346.514	322.967	304.966	296.280
67.0	343.061	336.991	314.176	296.594	288.221
67.5	333.432	327.467	305.385	288.326	280.267
68.0	323.804	317.943	296.594	280.058	272.418
68.5	314.280	308.524	287.698	272.000	264.464
69.0	304.757	299.001	279.012	263.837	256.720
69.5	295.129	289.582	270.325	255.883	248.975
70.0	285.605	280.267	261.848	247.929	241.336
70.5	276.186	271.058	253.371	240.184	233.800
71.0	266.662	261.639	245.208	232.440	226.370
71.5	257.348	252.534	236.940	224.800	218.939
72.0	248.138	243.429	228.777	217.265	211.718
72.5	238.929	234.533	220.718	209.834	204.392
73.0	229.928	225.742	212.765	202.404	197.276
73.5	220.718	216.951	204.811	195.183	190.159
74.0	211.718	208.369	196.962	187.857	183.147
74.5	202.927	199.787	189.217	180.740	176.240
75.0	194.136	191.520	181.577	173.623	169.333
75.5	185.450	183.147	174.042	166.612	162.530
76.0	176.972	174.879	166.612	159.704	156.041
76.5	168.600	166.716	159.286	152.902	149.448
77.0	160.332	158.762	151.960	146.204	142.855
77.5	152.169	150.913	144.843	139.610	136.575
78.0	144.111	143.169	137.727	133.122	130.401
78.5	136.261	135.529	130.924	126.738	124.226
79.0	128.517	128.098	124.226	120.458	118.156
79.5	120.982	120.772	117.528	114.284	112.191
80.0	113.551	113.551	111.039	108.214	106.225
80.5	106.330	106.539	104.656	102.248	100.469
81.0	99.109	99.632	98.376	96.283	94.713
81.5	92.201	92.829	92.201	90.422	89.062
82.0	85.399	86.236	86.131	84.666	83.515
82.5	78.701	79.747	80.061	79.015	77.968

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**CANDELA TABULATION - (Cont.)**

83.0	72.317	73.364	74.096	73.468	72.631
83.5	66.038	67.293	68.340	68.026	67.293
84.0	59.863	61.223	62.689	62.584	62.061
84.5	53.898	55.467	57.142	57.351	56.828
85.0	48.142	49.816	51.804	52.223	51.700
85.5	42.595	44.479	46.572	47.095	46.676
86.0	37.153	39.141	41.339	42.176	41.862
86.5	32.025	34.013	36.315	37.257	36.943
87.0	27.001	28.990	31.292	32.443	32.234
87.5	22.187	24.175	26.478	27.838	27.734
88.0	17.477	19.466	21.873	23.443	23.547
88.5	12.768	14.861	17.477	19.257	19.466
89.0	8.058	10.361	13.082	15.070	15.070
89.5	3.558	6.384	9.000	10.780	10.884
90.0	0.628	3.140	5.965	7.954	8.582
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2RX-8-00-L4-835-F-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : MX2RX-8-00-L4-835-F-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2RX-8-00-L4-835-F-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.84	N.A.	15.50
0-30	1081.64	N.A.	32.10
0-40	1702.49	N.A.	50.50
0-60	2772.41	N.A.	82.20
0-80	3314.49	N.A.	98.30
0-90	3372.37	N.A.	100.00
10-90	3234.74	N.A.	95.90
20-40	1178.65	N.A.	34.90
20-50	1762.52	N.A.	52.30
40-70	1418.26	N.A.	42.10
60-80	542.09	N.A.	16.10
70-80	193.75	N.A.	5.70
80-90	57.87	N.A.	1.70
90-110	0.15	N.A.	0.00
90-120	0.15	N.A.	0.00
90-130	0.15	N.A.	0.00
90-150	0.15	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3372.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.63
10-20	386.21
20-30	557.80
30-40	620.85
40-50	583.87
50-60	486.04
60-70	348.34
70-80	193.75
80-90	57.87
90-100	0.15
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 : MX2RX-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

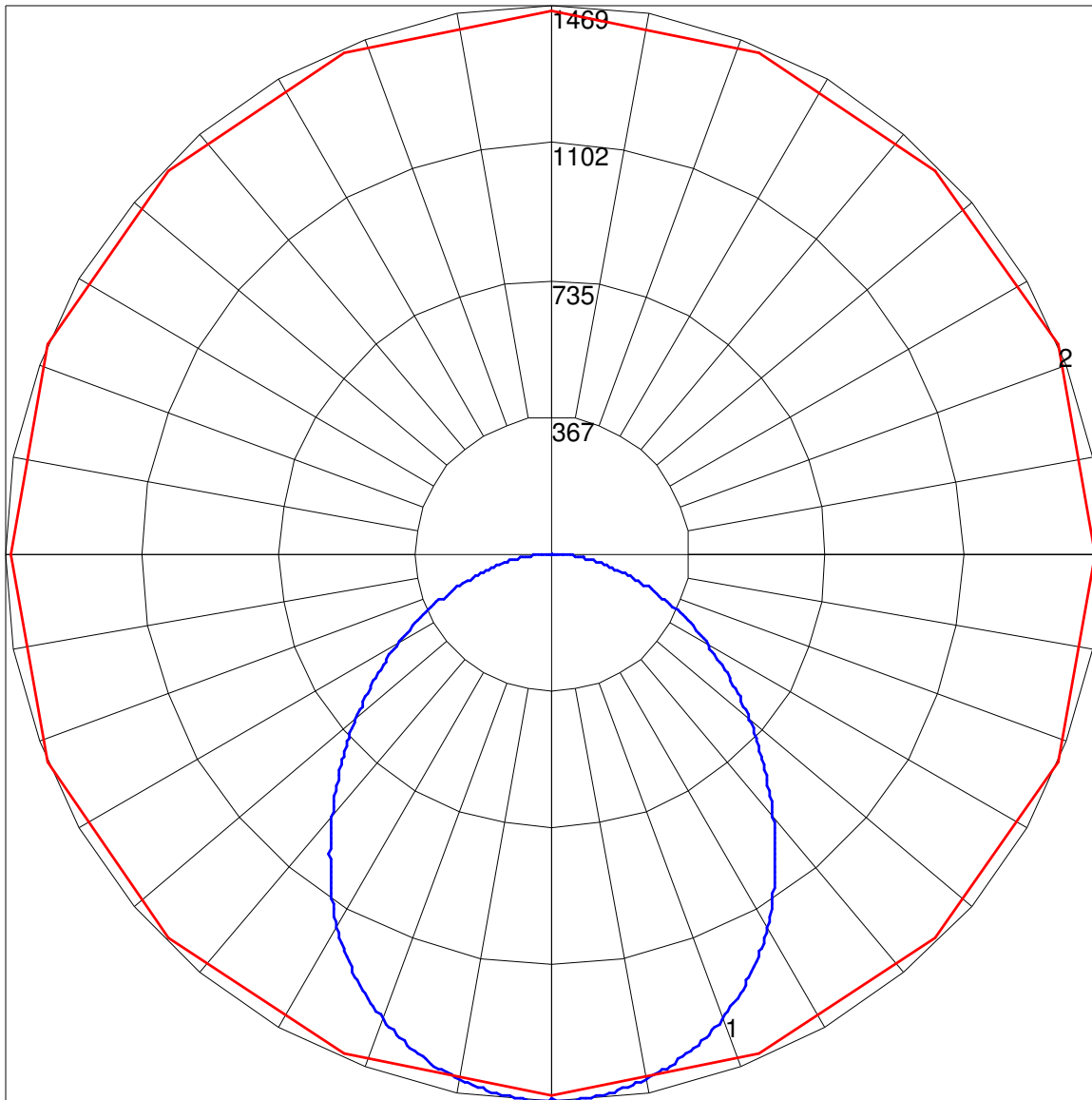
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2RX-8-00-L4-835-F-DIM-UNV\_.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	21.6	23.2	22.0	23.5	23.8	20.7	22.2	21.0	22.5	22.9
	3H	23.3	24.7	23.7	25.0	25.4	22.3	23.7	22.7	24.0	24.4
	4H	23.9	25.2	24.3	25.6	25.9	22.9	24.2	23.3	24.6	25.0
	6H	24.3	25.5	24.7	25.9	26.3	23.4	24.6	23.8	25.0	25.4
	8H	24.4	25.6	24.9	26.0	26.4	23.6	24.7	24.0	25.1	25.5
	12H	24.5	25.6	24.9	26.0	26.5	23.7	24.8	24.1	25.2	25.6
4H	2H	22.1	23.4	22.5	23.8	24.2	21.3	22.7	21.7	23.0	23.4
	3H	24.0	25.1	24.4	25.5	25.9	23.2	24.3	23.6	24.7	25.1
	4H	24.7	25.7	25.2	26.1	26.6	23.9	24.9	24.3	25.3	25.8
	6H	25.3	26.2	25.7	26.6	27.1	24.5	25.4	25.0	25.8	26.3
	8H	25.5	26.3	25.9	26.7	27.2	24.7	25.5	25.2	26.0	26.5
	12H	25.6	26.3	26.1	26.8	27.3	24.9	25.6	25.4	26.1	26.6
8H	4H	25.0	25.8	25.4	26.2	26.7	24.2	25.1	24.7	25.5	26.0
	6H	25.6	26.3	26.1	26.8	27.3	25.0	25.6	25.5	26.1	26.6
	8H	25.9	26.5	26.4	27.0	27.5	25.3	25.9	25.8	26.4	26.9
	12H	26.1	26.6	26.6	27.1	27.7	25.5	26.1	26.0	26.6	27.1
12H	4H	25.0	25.7	25.5	26.2	26.7	24.3	25.0	24.8	25.5	26.0
	6H	25.7	26.3	26.2	26.8	27.3	25.0	25.7	25.6	26.1	26.7
	8H	26.0	26.5	26.5	27.0	27.6	25.4	25.9	25.9	26.4	27.0

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 1469.363 Located At Horizontal Angle = 22.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)