



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL 13012869.06

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 12/6/2019

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] MX2S-4-00-L8-8TW-F-DIM-UNV 4000k

[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	3240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	26.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	18147	16659	15351
55	16128	14552	13215
65	13975	12483	11324
75	11492	10546	9824
85	8502	9224	9263

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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	1431.554	1431.554	1431.554	1431.554	1431.554
0.5	1428.386	1431.554	1431.554	1430.498	1438.944
1.0	1428.386	1431.554	1430.498	1430.498	1438.944
1.5	1427.331	1431.554	1430.498	1429.442	1437.888
2.0	1426.275	1430.498	1429.442	1428.386	1436.832
2.5	1426.275	1430.498	1429.442	1427.331	1435.776
3.0	1425.219	1429.442	1428.386	1426.275	1433.665
3.5	1424.164	1428.386	1427.331	1425.219	1431.554
4.0	1422.052	1427.331	1426.275	1423.108	1430.498
4.5	1420.996	1425.219	1425.219	1422.052	1427.331
5.0	1418.885	1424.164	1423.108	1419.941	1426.275
5.5	1417.829	1422.052	1420.996	1417.829	1423.108
6.0	1415.718	1419.941	1418.885	1414.662	1420.996
6.5	1413.606	1417.829	1416.773	1411.495	1417.829
7.0	1410.439	1415.718	1413.606	1408.328	1414.662
7.5	1408.328	1412.551	1410.439	1405.161	1411.495
8.0	1405.161	1409.383	1407.272	1401.993	1408.328
8.5	1403.049	1407.272	1404.105	1397.771	1404.105
9.0	1399.882	1403.049	1399.882	1393.548	1398.826
9.5	1396.715	1399.882	1395.659	1388.269	1394.603
10.0	1392.492	1396.715	1391.436	1384.046	1389.325
10.5	1389.325	1392.492	1386.158	1378.768	1382.991
11.0	1385.102	1388.269	1381.935	1373.489	1377.712
11.5	1380.879	1384.046	1376.656	1367.155	1371.378
12.0	1376.656	1379.823	1371.378	1360.820	1363.988
12.5	1372.433	1375.600	1366.099	1354.486	1357.653
13.0	1368.210	1370.322	1360.820	1348.152	1350.263
13.5	1362.932	1366.099	1354.486	1340.762	1342.873
14.0	1358.709	1360.820	1348.152	1334.427	1335.483
14.5	1353.430	1355.542	1341.818	1327.037	1328.093
15.0	1348.152	1349.208	1335.483	1319.647	1320.703
15.5	1342.873	1343.929	1329.149	1311.202	1312.257
16.0	1337.595	1337.595	1321.759	1303.812	1303.812
16.5	1331.260	1332.316	1315.425	1295.366	1295.366
17.0	1324.926	1325.982	1308.035	1286.920	1286.920
17.5	1319.647	1319.647	1300.645	1278.474	1277.419
18.0	1313.313	1312.257	1292.199	1270.029	1268.973
18.5	1306.979	1305.923	1284.809	1260.527	1259.472
19.0	1299.589	1298.533	1276.363	1252.081	1249.970
19.5	1293.254	1291.143	1267.917	1242.580	1240.469
20.0	1285.864	1283.753	1259.472	1233.079	1230.967
20.5	1278.474	1276.363	1251.026	1223.577	1220.410
21.0	1271.084	1268.973	1241.524	1214.076	1210.908
21.5	1264.750	1261.583	1233.079	1204.574	1200.351
22.0	1256.304	1253.137	1223.577	1194.017	1189.794
22.5	1248.914	1244.691	1214.076	1184.516	1179.237
23.0	1241.524	1236.246	1205.630	1173.958	1168.680
23.5	1233.079	1227.800	1196.128	1163.401	1158.123
24.0	1224.633	1219.354	1186.627	1152.844	1147.565
24.5	1217.243	1209.853	1176.070	1142.287	1135.953
25.0	1208.797	1201.407	1166.568	1131.730	1125.395
25.5	1199.296	1191.906	1156.011	1121.172	1113.782
26.0	1190.850	1182.404	1146.510	1110.615	1103.225
26.5	1181.348	1172.903	1135.953	1099.002	1091.612

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**CANDELA TABULATION - (Cont.)**

27.0	1172.903	1163.401	1126.451	1087.389	1081.055
27.5	1163.401	1153.900	1115.894	1076.832	1069.442
28.0	1153.900	1144.398	1105.337	1065.219	1057.829
28.5	1144.398	1134.897	1094.780	1054.768	1046.850
29.0	1135.953	1124.340	1084.222	1043.577	1035.343
29.5	1125.395	1114.838	1073.665	1032.492	1023.835
30.0	1115.894	1104.281	1063.108	1021.196	1012.328
30.5	1106.392	1094.780	1051.812	1010.217	1000.821
31.0	1096.891	1084.222	1040.938	999.026	989.313
31.5	1087.389	1073.665	1029.958	987.941	978.017
32.0	1076.832	1063.108	1019.085	976.750	966.510
32.5	1067.331	1053.184	1008.105	965.454	955.002
33.0	1056.774	1042.627	997.126	954.263	943.601
33.5	1046.955	1032.175	986.146	942.756	932.093
34.0	1036.609	1021.513	975.167	931.354	920.797
34.5	1026.369	1010.956	964.082	919.953	909.501
35.0	1015.812	1000.187	953.102	908.551	898.099
35.5	1005.255	989.419	942.228	897.149	886.909
36.0	994.697	978.545	931.249	885.747	875.401
36.5	983.824	967.671	920.164	874.451	864.211
37.0	972.844	956.797	908.973	863.155	852.809
37.5	962.076	945.607	897.994	851.964	841.513
38.0	951.202	934.627	886.909	840.563	830.322
38.5	940.011	923.542	875.718	829.372	819.132
39.0	928.926	912.668	864.633	818.287	807.730
39.5	918.052	901.478	853.442	807.202	796.539
40.0	906.862	890.498	842.357	796.011	785.454
40.5	895.988	879.413	831.272	784.926	774.158
41.0	885.008	868.328	820.187	773.947	762.756
41.5	873.923	857.349	809.102	762.862	751.460
42.0	862.944	846.264	797.912	751.988	740.375
42.5	852.070	835.284	786.827	741.008	729.184
43.0	841.090	824.093	775.953	729.923	718.099
43.5	830.217	813.008	764.762	718.838	706.803
44.0	819.026	801.712	753.783	707.859	695.929
44.5	807.941	790.627	742.698	696.985	684.950
45.0	797.067	779.437	731.718	686.111	674.287
45.5	786.088	768.140	720.739	675.132	663.413
46.0	774.897	756.844	709.759	664.363	652.645
46.5	763.706	745.759	698.674	653.701	642.088
47.0	752.516	734.463	687.695	643.038	631.530
47.5	741.114	723.484	676.715	632.481	621.079
48.0	729.818	712.187	666.052	622.029	610.838
48.5	718.627	701.102	655.179	611.683	600.492
49.0	707.225	689.912	644.305	601.337	590.357
49.5	696.035	678.827	633.536	590.991	580.223
50.0	684.633	667.953	622.768	580.856	570.088
50.5	673.654	656.973	612.211	570.721	559.953
51.0	662.357	646.099	601.548	560.692	550.029
51.5	651.272	635.331	590.991	550.662	539.894
52.0	640.082	624.457	580.434	540.633	529.970
52.5	629.102	613.689	569.982	530.709	519.941
53.0	618.017	603.026	559.531	520.680	510.017
53.5	607.038	592.258	549.184	510.862	500.094
54.0	596.164	581.384	538.944	500.938	490.275
54.5	585.396	570.616	528.704	491.226	480.563

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**CANDELA TABULATION - (Cont.)**

55.0	574.627	559.953	518.463	481.407	470.850
55.5	563.859	549.396	508.539	471.906	461.349
56.0	553.091	538.733	498.510	462.299	451.847
56.5	542.322	528.070	488.375	452.692	442.451
57.0	531.554	517.513	478.451	443.296	433.372
57.5	520.891	507.061	468.528	433.900	424.293
58.0	510.334	496.610	458.604	424.926	415.319
58.5	499.777	486.158	448.786	415.847	406.557
59.0	489.114	475.812	439.073	406.768	397.795
59.5	478.557	465.677	429.360	397.795	389.032
60.0	468.000	455.437	419.648	388.926	380.270
60.5	457.443	445.302	410.041	380.270	371.718
61.0	447.097	435.484	400.539	371.613	363.167
61.5	436.856	425.560	391.249	362.956	354.721
62.0	426.616	415.636	381.748	354.405	346.381
62.5	416.270	405.712	372.563	346.064	337.935
63.0	406.240	396.000	363.378	337.619	329.701
63.5	396.211	386.287	354.299	329.278	321.466
64.0	386.393	376.575	345.431	320.938	313.337
64.5	376.575	366.862	336.668	312.809	305.208
65.0	366.862	357.361	327.695	304.786	297.290
65.5	357.149	347.753	318.932	296.762	289.267
66.0	347.437	338.146	310.381	288.528	281.454
66.5	337.724	328.645	301.830	280.715	273.853
67.0	328.223	319.249	293.278	272.798	266.146
67.5	318.827	309.959	284.833	265.196	258.756
68.0	309.114	300.668	276.387	257.490	251.472
68.5	299.718	291.378	268.152	249.994	244.188
69.0	290.217	282.299	259.918	242.604	237.009
69.5	280.821	273.220	251.683	235.320	229.724
70.0	271.425	264.141	243.554	228.035	223.179
70.5	262.135	255.378	235.636	221.384	216.528
71.0	252.950	246.616	227.718	214.733	209.666
71.5	244.082	238.064	220.645	207.765	202.909
72.0	235.214	229.302	212.938	200.903	196.258
72.5	226.240	221.067	205.337	194.147	189.396
73.0	218.322	213.149	197.842	187.284	182.850
73.5	209.666	204.915	190.452	180.633	176.199
74.0	201.220	196.680	183.167	173.982	170.182
74.5	192.880	188.657	176.094	168.176	164.270
75.0	184.751	180.633	169.548	161.736	157.935
75.5	176.516	172.821	162.792	155.191	151.707
76.0	169.232	165.537	155.930	148.856	145.584
76.5	161.208	157.724	149.067	142.522	139.566
77.0	153.396	150.018	142.416	136.293	133.548
77.5	145.584	142.522	135.871	130.276	127.742
78.0	137.877	135.132	129.431	124.152	122.041
78.5	130.276	127.847	122.991	118.240	116.340
79.0	122.886	120.774	116.762	112.434	110.745
79.5	115.601	113.701	110.534	106.733	105.150
80.0	108.422	106.944	104.411	101.138	99.765
80.5	101.349	100.399	98.498	95.648	94.487
81.0	94.487	93.853	92.586	90.264	89.208
81.5	87.836	87.625	86.886	84.985	84.035
82.0	81.290	81.501	81.185	79.707	78.968
82.5	74.956	75.484	75.695	74.639	73.900

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**CANDELA TABULATION - (Cont.)**

83.0	68.727	69.677	70.311	69.572	68.938
83.5	62.815	63.977	65.032	64.716	64.082
84.0	57.009	58.487	59.859	59.859	59.331
84.5	51.413	53.208	54.792	55.108	54.686
85.0	46.029	47.930	49.935	50.463	50.147
85.5	40.856	42.862	45.079	45.818	45.607
86.0	35.894	38.006	40.434	41.384	41.279
86.5	31.038	33.150	35.894	36.950	37.056
87.0	26.393	28.504	31.460	32.833	32.938
87.5	21.853	23.965	27.132	28.716	28.927
88.0	17.314	19.636	22.909	23.543	23.226
88.5	13.091	15.519	18.158	18.792	18.792
89.0	10.346	12.563	15.202	16.152	16.258
89.5	8.023	10.346	12.669	13.830	14.147
90.0	5.701	8.235	10.557	11.613	11.930
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 : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.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 : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.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 : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	510.15	N.A.	15.70
0-30	1046.39	N.A.	32.30
0-40	1643.00	N.A.	50.70
0-60	2674.73	N.A.	82.50
0-80	3184.19	N.A.	98.30
0-90	3240.03	N.A.	100.00
10-90	3105.26	N.A.	95.80
20-40	1132.86	N.A.	35.00
20-50	1698.47	N.A.	52.40
40-70	1359.67	N.A.	42.00
60-80	509.45	N.A.	15.70
70-80	181.51	N.A.	5.60
80-90	55.84	N.A.	1.70
90-110	0.27	N.A.	0.00
90-120	0.27	N.A.	0.00
90-130	0.27	N.A.	0.00
90-150	0.27	N.A.	0.00
90-180	0.27	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3240.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.78
10-20	375.37
20-30	536.24
30-40	596.62
40-50	565.61
50-60	466.12
60-70	327.94
70-80	181.51
80-90	55.84
90-100	0.27
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 : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.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	126	126	126	126	123	123	123	123	117	117	117	112	112	112	108	108	108	106
1	115	111	106	103	113	108	104	101	104	101	98	100	97	95	96	94	92	90
2	106	97	91	85	103	95	89	84	92	86	82	88	84	80	85	82	78	76
3	97	86	78	72	94	85	77	71	82	75	70	79	73	69	76	71	67	65
4	89	77	68	61	87	76	67	61	73	66	60	71	64	59	68	63	59	56
5	82	69	60	53	80	68	60	53	66	58	53	64	57	52	62	56	52	49
6	76	63	54	47	74	62	53	47	60	52	47	58	51	46	57	50	46	44
7	71	57	48	42	69	56	48	42	55	47	42	53	46	41	52	46	41	39
8	66	52	44	38	65	52	43	38	50	43	37	49	42	37	48	42	37	35
9	62	48	40	34	61	48	40	34	46	39	34	45	39	34	44	38	34	32
10	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29

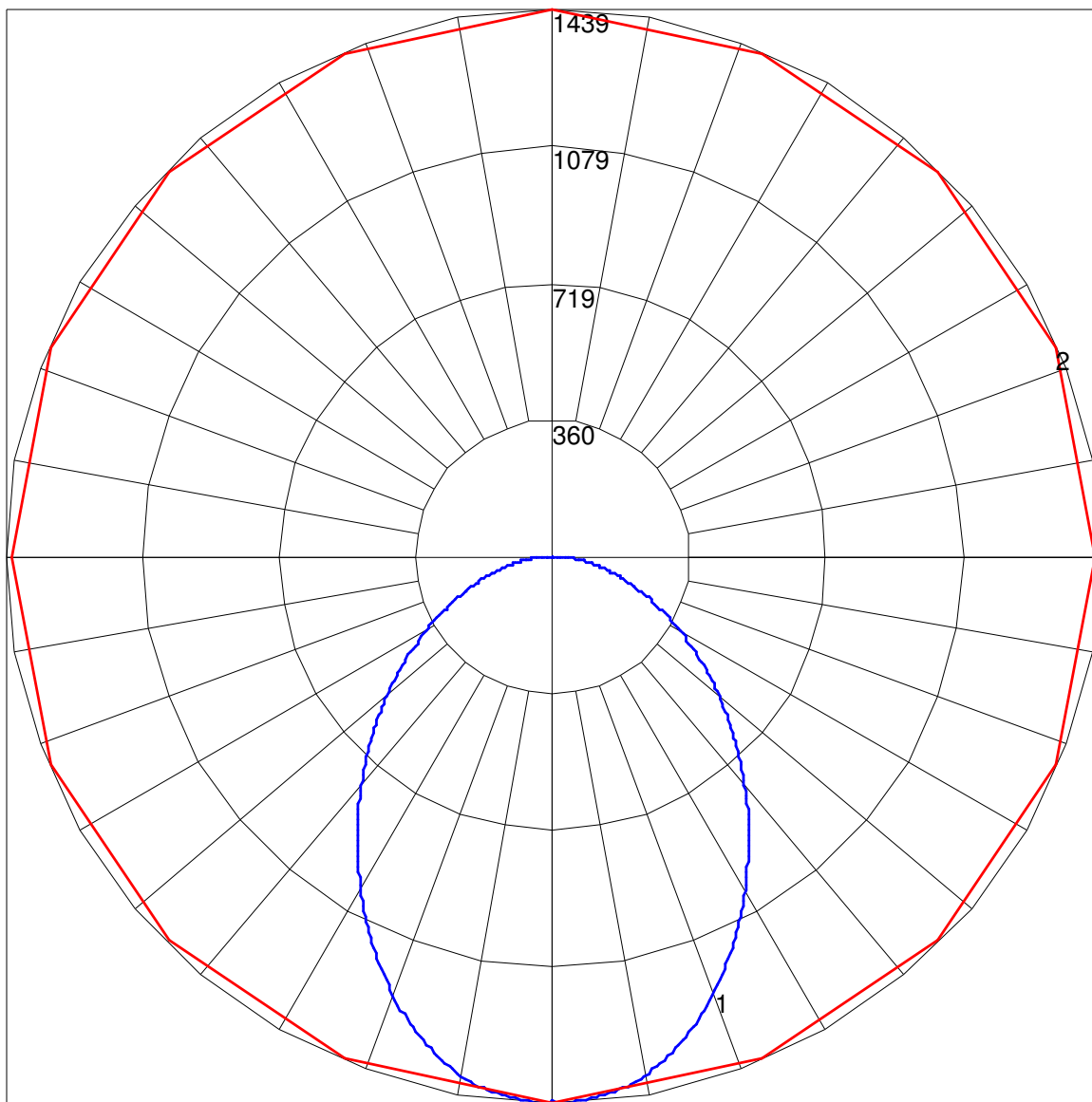
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2S-4-00-L8-8TW-F-DIM-UNV 4000K.IES**

**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	21.3	22.9	21.7	23.2	23.5	20.2	21.8	20.6	22.1	22.4
	3H	23.0	24.4	23.3	24.7	25.1	21.8	23.2	22.2	23.5	23.9
	4H	23.5	24.9	23.9	25.2	25.6	22.4	23.7	22.8	24.1	24.4
	6H	24.0	25.2	24.4	25.6	26.0	22.9	24.1	23.3	24.5	24.9
	8H	24.1	25.3	24.5	25.7	26.1	23.0	24.2	23.5	24.6	25.0
	12H	24.2	25.3	24.6	25.7	26.1	23.2	24.3	23.6	24.7	25.1
4H	2H	21.8	23.1	22.2	23.5	23.8	20.9	22.2	21.3	22.5	22.9
	3H	23.6	24.7	24.0	25.1	25.5	22.7	23.8	23.1	24.2	24.6
	4H	24.4	25.4	24.8	25.8	26.2	23.4	24.4	23.8	24.8	25.2
	6H	24.9	25.8	25.4	26.2	26.7	24.0	24.9	24.5	25.3	25.8
	8H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.5	25.9
	12H	25.2	25.9	25.7	26.4	26.9	24.4	25.1	24.9	25.6	26.1
8H	4H	24.6	25.4	25.0	25.8	26.3	23.7	24.5	24.2	25.0	25.4
	6H	25.2	25.9	25.7	26.4	26.9	24.5	25.1	24.9	25.6	26.1
	8H	25.5	26.1	26.0	26.6	27.1	24.7	25.4	25.3	25.9	26.4
	12H	25.7	26.2	26.2	26.7	27.3	25.0	25.6	25.5	26.1	26.6
12H	4H	24.6	25.3	25.1	25.8	26.3	23.8	24.5	24.2	25.0	25.4
	6H	25.3	25.9	25.8	26.4	26.9	24.5	25.1	25.0	25.6	26.1
	8H	25.6	26.1	26.1	26.6	27.2	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1438.944 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)