



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2S-4-00-L8-840-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]GEN FROM 13012869.06  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 01-17-2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] MX2S-4-00-L8-840-F-DIM-UNV  
[LUMINAIRE] Formed White aluminum housing, frosted plastic lens  
[LAMP] 144 White LEDs  
[BALLAST] One Philips Advance XI040C110V054BST1 Driver  
[OTHER] 24.5 C, 120.068 V, 0.225745 A, 26.9297 W, 0.993544 PF, 59.97 H  
[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	3193
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	27
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	17883	16417	15129
55	15894	14341	13024
65	13772	12302	11160
75	11325	10393	9681
85	8379	9090	9128

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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	1410.788	1410.788	1410.788	1410.788	1410.788
0.5	1407.667	1410.788	1410.788	1409.747	1418.071
1.0	1407.667	1410.788	1409.747	1409.747	1418.071
1.5	1406.626	1410.788	1409.747	1408.707	1417.030
2.0	1405.586	1409.747	1408.707	1407.667	1415.990
2.5	1405.586	1409.747	1408.707	1406.626	1414.949
3.0	1404.545	1408.707	1407.667	1405.586	1412.869
3.5	1403.505	1407.667	1406.626	1404.545	1410.788
4.0	1401.424	1406.626	1405.586	1402.465	1409.747
4.5	1400.384	1404.545	1404.545	1401.424	1406.626
5.0	1398.303	1403.505	1402.465	1399.343	1405.586
5.5	1397.263	1401.424	1400.384	1397.263	1402.465
6.0	1395.182	1399.343	1398.303	1394.141	1400.384
6.5	1393.101	1397.263	1396.222	1391.020	1397.263
7.0	1389.980	1395.182	1393.101	1387.899	1394.141
7.5	1387.899	1392.061	1389.980	1384.778	1391.020
8.0	1384.778	1388.939	1386.858	1381.656	1387.899
8.5	1382.697	1386.858	1383.737	1377.495	1383.737
9.0	1379.576	1382.697	1379.576	1373.333	1378.535
9.5	1376.454	1379.576	1375.414	1368.131	1374.374
10.0	1372.293	1376.454	1371.252	1363.970	1369.172
10.5	1369.172	1372.293	1366.050	1358.768	1362.929
11.0	1365.010	1368.131	1361.889	1353.566	1357.727
11.5	1360.848	1363.970	1356.687	1347.323	1351.485
12.0	1356.687	1359.808	1351.485	1341.081	1344.202
12.5	1352.525	1355.646	1346.283	1334.838	1337.959
13.0	1348.364	1350.444	1341.081	1328.596	1330.677
13.5	1343.162	1346.283	1334.838	1321.313	1323.394
14.0	1339.000	1341.081	1328.596	1315.071	1316.111
14.5	1333.798	1335.879	1322.353	1307.788	1308.828
15.0	1328.596	1329.636	1316.111	1300.505	1301.545
15.5	1323.394	1324.434	1309.869	1292.182	1293.222
16.0	1318.192	1318.192	1302.586	1284.899	1284.899
16.5	1311.949	1312.990	1296.343	1276.576	1276.576
17.0	1305.707	1306.747	1289.061	1268.252	1268.252
17.5	1300.505	1300.505	1281.778	1259.929	1258.889
18.0	1294.263	1293.222	1273.454	1251.606	1250.566
18.5	1288.020	1286.980	1266.172	1242.242	1241.202
19.0	1280.737	1279.697	1257.848	1233.919	1231.838
19.5	1274.495	1272.414	1249.525	1224.555	1222.475
20.0	1267.212	1265.131	1241.202	1215.192	1213.111
20.5	1259.929	1257.848	1232.879	1205.828	1202.707
21.0	1252.646	1250.566	1223.515	1196.465	1193.343
21.5	1246.404	1243.283	1215.192	1187.101	1182.939
22.0	1238.081	1234.960	1205.828	1176.697	1172.535
22.5	1230.798	1226.636	1196.465	1167.333	1162.131
23.0	1223.515	1218.313	1188.141	1156.929	1151.727
23.5	1215.192	1209.990	1178.778	1146.525	1141.323
24.0	1206.869	1201.667	1169.414	1136.121	1130.919
24.5	1199.586	1192.303	1159.010	1125.717	1119.475
25.0	1191.263	1183.980	1149.646	1115.313	1109.071
25.5	1181.899	1174.616	1139.242	1104.909	1097.626
26.0	1173.576	1165.252	1129.879	1094.505	1087.222
26.5	1164.212	1155.889	1119.475	1083.061	1075.778

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**CANDELA TABULATION - (Cont.)**

27.0	1155.889	1146.525	1110.111	1071.616	1065.374
27.5	1146.525	1137.162	1099.707	1061.212	1053.929
28.0	1137.162	1127.798	1089.303	1049.768	1042.485
28.5	1127.798	1118.434	1078.899	1039.468	1031.665
29.0	1119.475	1108.030	1068.495	1028.439	1020.324
29.5	1109.071	1098.667	1058.091	1017.515	1008.984
30.0	1099.707	1088.263	1047.687	1006.383	997.643
30.5	1090.343	1078.899	1036.554	995.563	986.303
31.0	1080.980	1068.495	1025.838	984.534	974.963
31.5	1071.616	1058.091	1015.018	973.610	963.830
32.0	1061.212	1047.687	1004.302	962.582	952.490
32.5	1051.848	1037.907	993.482	951.449	941.149
33.0	1041.444	1027.503	982.662	940.421	929.913
33.5	1031.769	1017.203	971.841	929.081	918.573
34.0	1021.573	1006.695	961.021	917.844	907.440
34.5	1011.481	996.291	950.097	906.608	896.308
35.0	1001.077	985.679	939.277	895.372	885.072
35.5	990.673	975.067	928.561	884.135	874.043
36.0	980.269	964.350	917.740	872.899	862.703
36.5	969.552	953.634	906.816	861.767	851.675
37.0	958.732	942.918	895.788	850.634	840.438
37.5	948.120	931.890	884.968	839.606	829.306
38.0	937.404	921.070	874.043	828.370	818.278
38.5	926.376	910.145	863.015	817.341	807.249
39.0	915.451	899.429	852.091	806.417	796.013
39.5	904.735	888.401	841.063	795.493	784.985
40.0	893.707	877.581	830.138	784.465	774.061
40.5	882.991	866.657	819.214	773.540	762.928
41.0	872.171	855.732	808.290	762.720	751.692
41.5	861.246	844.912	797.366	751.796	740.560
42.0	850.426	833.988	786.337	741.080	729.635
42.5	839.710	823.168	775.413	730.260	718.607
43.0	828.890	812.139	764.697	719.335	707.683
43.5	818.174	801.215	753.669	708.411	696.550
44.0	807.145	790.083	742.848	697.591	685.834
44.5	796.221	779.159	731.924	686.875	675.014
45.0	785.505	768.130	721.104	676.159	664.506
45.5	774.685	756.998	710.284	665.338	653.790
46.0	763.657	745.866	699.464	654.726	643.178
46.5	752.628	734.941	688.539	644.218	632.774
47.0	741.600	723.809	677.719	633.710	622.370
47.5	730.364	712.989	666.899	623.306	612.070
48.0	719.231	701.856	656.391	613.006	601.978
48.5	708.203	690.932	645.675	602.810	591.782
49.0	696.967	679.904	634.959	592.614	581.794
49.5	685.938	668.980	624.346	582.418	571.806
50.0	674.702	658.264	613.734	572.430	561.818
50.5	663.882	647.443	603.330	562.442	551.830
51.0	652.749	636.727	592.822	552.559	542.050
51.5	641.825	626.115	582.418	542.675	532.063
52.0	630.797	615.399	572.014	532.791	522.283
52.5	619.977	604.787	561.714	523.011	512.399
53.0	609.053	594.279	551.414	513.127	502.619
53.5	598.232	583.667	541.218	503.451	492.839
54.0	587.516	572.950	531.126	493.672	483.164
54.5	576.904	562.338	521.034	484.100	473.592

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**CANDELA TABULATION - (Cont.)**

55.0	566.292	551.830	510.942	474.424	464.020
55.5	555.680	541.426	501.163	465.061	454.657
56.0	545.068	530.918	491.279	455.593	445.293
56.5	534.456	520.410	481.291	446.125	436.033
57.0	523.843	510.006	471.511	436.866	427.086
57.5	513.335	499.706	461.731	427.606	418.138
58.0	502.931	489.406	451.951	418.763	409.295
58.5	492.527	479.106	442.276	409.815	400.660
59.0	482.019	468.910	432.704	400.868	392.024
59.5	471.615	458.922	423.132	392.024	383.389
60.0	461.211	448.830	413.561	383.285	374.754
60.5	450.807	438.842	404.093	374.754	366.326
61.0	440.611	429.167	394.729	366.222	357.899
61.5	430.519	419.387	385.574	357.691	349.576
62.0	420.427	409.607	376.210	349.264	341.357
62.5	410.231	399.827	367.159	341.044	333.033
63.0	400.347	390.256	358.107	332.721	324.918
63.5	390.464	380.684	349.160	324.502	316.803
64.0	380.788	371.112	340.420	316.283	308.792
64.5	371.112	361.540	331.785	308.272	300.781
65.0	361.540	352.177	322.941	300.365	292.978
65.5	351.969	342.709	314.306	292.458	285.071
66.0	342.397	333.241	305.879	284.342	277.372
66.5	332.825	323.878	297.451	276.643	269.881
67.0	323.462	314.618	289.024	268.840	262.286
67.5	314.202	305.463	280.701	261.349	255.003
68.0	304.630	296.307	272.378	253.755	247.824
68.5	295.371	287.151	264.263	246.368	240.645
69.0	286.007	278.204	256.147	239.085	233.571
69.5	276.747	269.257	248.032	231.906	226.392
70.0	267.488	260.309	240.021	224.727	219.941
70.5	258.332	251.674	232.218	218.173	213.387
71.0	249.281	243.038	224.415	211.618	206.624
71.5	240.541	234.611	217.444	204.752	199.966
72.0	231.802	225.976	209.849	197.989	193.411
72.5	222.959	217.861	202.359	191.330	186.648
73.0	215.156	210.058	194.972	184.568	180.198
73.5	206.624	201.942	187.689	178.013	173.643
74.0	198.301	193.827	180.510	171.459	167.713
74.5	190.082	185.920	173.539	165.736	161.887
75.0	182.071	178.013	167.089	159.390	155.644
75.5	173.956	170.314	160.430	152.939	149.506
76.0	166.777	163.135	153.668	146.697	143.472
76.5	158.870	155.436	146.905	140.455	137.541
77.0	151.171	147.841	140.350	134.316	131.611
77.5	143.472	140.455	133.900	128.386	125.889
78.0	135.877	133.172	127.554	122.352	120.271
78.5	128.386	125.993	121.207	116.525	114.653
79.0	121.103	119.022	115.069	110.803	109.138
79.5	113.924	112.052	108.930	105.185	103.624
80.0	106.849	105.393	102.896	99.671	98.318
80.5	99.879	98.942	97.070	94.261	93.116
81.0	93.116	92.492	91.243	88.955	87.914
81.5	86.562	86.354	85.625	83.753	82.816
82.0	80.111	80.319	80.007	78.550	77.822
82.5	73.869	74.389	74.597	73.557	72.828

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**CANDELA TABULATION - (Cont.)**

83.0	67.730	68.667	69.291	68.563	67.938
83.5	61.904	63.048	64.089	63.777	63.153
84.0	56.182	57.638	58.991	58.991	58.471
84.5	50.668	52.436	53.997	54.309	53.893
85.0	45.362	47.234	49.211	49.731	49.419
85.5	40.264	42.240	44.425	45.154	44.945
86.0	35.374	37.455	39.847	40.784	40.680
86.5	30.588	32.669	35.374	36.414	36.518
87.0	26.010	28.091	31.004	32.357	32.461
87.5	21.536	23.617	26.738	28.299	28.507
88.0	17.063	19.352	22.577	23.201	22.889
88.5	12.901	15.294	17.895	18.519	18.519
89.0	10.196	12.381	14.982	15.918	16.022
89.5	7.907	10.196	12.485	13.629	13.941
90.0	5.618	8.115	10.404	11.444	11.757
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-L8-840-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 : MX2S-4-00-L8-840-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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	502.75	N.A.	15.70
0-30	1031.21	N.A.	32.30
0-40	1619.17	N.A.	50.70
0-60	2635.93	N.A.	82.50
0-80	3138.00	N.A.	98.30
0-90	3193.03	N.A.	100.00
10-90	3060.21	N.A.	95.80
20-40	1116.43	N.A.	35.00
20-50	1673.83	N.A.	52.40
40-70	1339.95	N.A.	42.00
60-80	502.06	N.A.	15.70
70-80	178.88	N.A.	5.60
80-90	55.03	N.A.	1.70
90-110	0.26	N.A.	0.00
90-120	0.26	N.A.	0.00
90-130	0.26	N.A.	0.00
90-150	0.26	N.A.	0.00
90-180	0.26	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3193.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.82
10-20	369.92
20-30	528.46
30-40	587.96
40-50	557.41
50-60	459.36
60-70	323.19
70-80	178.88
80-90	55.03
90-100	0.26
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-L8-840-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	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX2S-4-00-L8-840-F-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

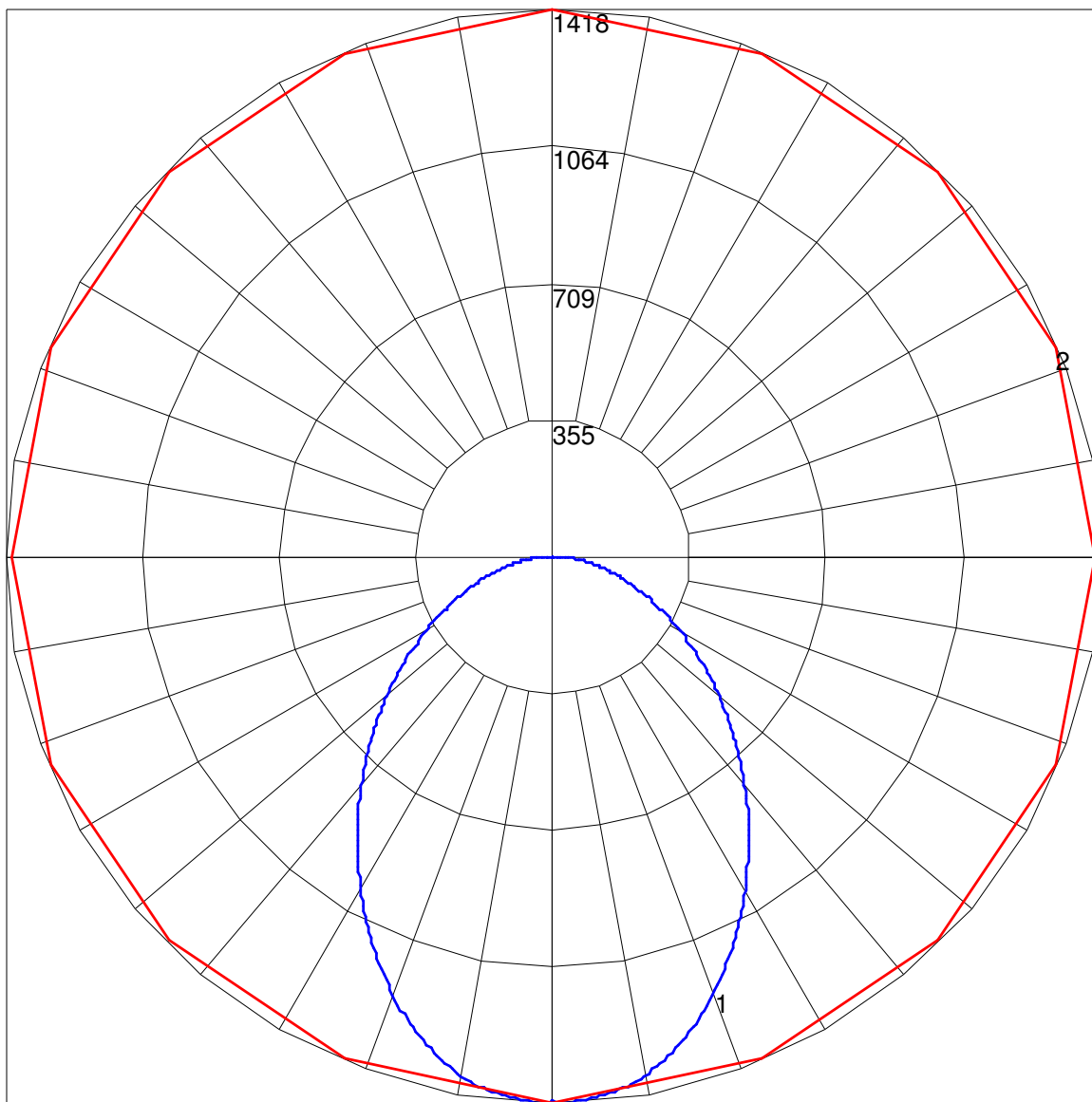
Reflectances

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	21.5	23.0	21.8	23.3	23.6	20.3	21.9	20.7	22.2	22.5
	3H	23.1	24.5	23.4	24.8	25.2	21.9	23.3	22.3	23.6	24.0
	4H	23.6	25.0	24.0	25.3	25.7	22.5	23.8	22.9	24.2	24.5
	6H	24.1	25.3	24.5	25.7	26.1	23.0	24.2	23.4	24.6	25.0
	8H	24.2	25.4	24.6	25.8	26.2	23.1	24.3	23.6	24.7	25.1
	12H	24.3	25.4	24.7	25.8	26.2	23.3	24.4	23.7	24.8	25.2
4H	2H	21.9	23.2	22.3	23.6	23.9	21.0	22.3	21.4	22.6	23.0
	3H	23.7	24.9	24.1	25.2	25.6	22.8	23.9	23.2	24.3	24.7
	4H	24.5	25.5	24.9	25.9	26.3	23.5	24.5	23.9	24.9	25.3
	6H	25.0	25.9	25.5	26.3	26.8	24.1	25.0	24.6	25.4	25.9
	8H	25.2	26.0	25.7	26.4	26.9	24.3	25.1	24.8	25.6	26.0
	12H	25.3	26.1	25.8	26.5	27.0	24.5	25.2	25.0	25.7	26.2
8H	4H	24.7	25.5	25.1	25.9	26.4	23.8	24.6	24.3	25.1	25.5
	6H	25.3	26.0	25.8	26.5	27.0	24.6	25.2	25.0	25.7	26.2
	8H	25.6	26.2	26.1	26.7	27.2	24.8	25.5	25.4	26.0	26.5
	12H	25.8	26.3	26.3	26.8	27.4	25.1	25.7	25.6	26.2	26.7
12H	4H	24.7	25.4	25.2	25.9	26.4	23.9	24.6	24.3	25.1	25.5
	6H	25.4	26.0	25.9	26.5	27.0	24.6	25.2	25.1	25.7	26.2
	8H	25.7	26.2	26.2	26.7	27.3	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 1418.071 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.)