



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RG-4-00-P8-8TW-F-POE X\_4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13012869.02  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 12/05/2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2RG-4-00-P8-8TW-F-POE x  
 [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	3449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	25.2
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)	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	18860	17500	16265
55	16874	15510	14252
65	14879	13615	12527
75	12347	11549	10770
85	9093	9784	9765

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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	1492.849	1492.849	1492.849	1492.849	1492.849
0.5	1490.709	1502.481	1490.709	1489.639	1487.499
1.0	1490.709	1502.481	1489.639	1489.639	1487.499
1.5	1490.709	1501.411	1489.639	1489.639	1486.429
2.0	1490.709	1501.411	1488.569	1488.569	1487.499
2.5	1489.639	1500.340	1487.499	1488.569	1486.429
3.0	1487.499	1499.270	1486.429	1487.499	1485.358
3.5	1487.499	1498.200	1485.358	1487.499	1484.288
4.0	1485.358	1497.130	1483.218	1485.358	1482.148
4.5	1484.288	1494.990	1482.148	1484.288	1480.008
5.0	1483.218	1492.849	1480.008	1482.148	1478.938
5.5	1481.078	1491.779	1477.867	1480.008	1476.797
6.0	1478.938	1489.639	1475.727	1477.867	1473.587
6.5	1476.797	1487.499	1473.587	1474.657	1471.447
7.0	1474.657	1484.288	1471.447	1472.517	1469.306
7.5	1471.447	1482.148	1468.236	1468.236	1466.096
8.0	1469.306	1478.938	1466.096	1465.026	1462.885
8.5	1466.096	1476.797	1462.885	1460.745	1458.605
9.0	1463.956	1473.587	1459.675	1457.535	1454.324
9.5	1460.745	1470.376	1456.465	1452.184	1450.044
10.0	1457.535	1466.096	1452.184	1447.903	1444.693
10.5	1454.324	1462.885	1448.974	1443.623	1439.342
11.0	1450.044	1459.675	1444.693	1438.272	1433.992
11.5	1445.763	1455.394	1440.412	1433.992	1427.571
12.0	1442.553	1451.114	1436.132	1427.571	1422.220
12.5	1438.272	1446.833	1430.781	1422.220	1414.729
13.0	1432.921	1442.553	1425.430	1415.799	1408.308
13.5	1429.711	1438.272	1419.010	1409.378	1401.887
14.0	1424.360	1432.921	1414.729	1402.957	1395.466
14.5	1419.010	1428.641	1408.308	1396.537	1387.975
15.0	1414.729	1422.220	1401.887	1389.046	1381.555
15.5	1409.378	1416.869	1395.466	1382.625	1374.064
16.0	1405.098	1411.519	1389.046	1375.134	1365.502
16.5	1399.747	1406.168	1382.625	1367.643	1358.011
17.0	1395.466	1400.817	1375.134	1360.152	1350.520
17.5	1389.046	1395.466	1367.643	1351.591	1341.959
18.0	1381.555	1390.116	1360.152	1343.029	1333.398
18.5	1375.134	1382.625	1352.661	1335.538	1324.837
19.0	1368.713	1376.204	1345.170	1326.977	1316.276
19.5	1361.222	1368.713	1336.609	1318.416	1306.645
20.0	1354.801	1361.222	1328.047	1308.785	1298.083
20.5	1347.310	1353.731	1320.556	1300.224	1288.452
21.0	1340.889	1346.240	1311.995	1290.592	1278.821
21.5	1334.468	1337.679	1303.434	1280.961	1269.190
22.0	1325.907	1330.188	1295.943	1270.260	1258.488
22.5	1318.416	1322.697	1286.312	1260.628	1247.787
23.0	1310.925	1314.136	1277.751	1249.927	1237.085
23.5	1303.434	1305.574	1269.190	1239.226	1225.314
24.0	1294.873	1298.083	1259.558	1228.524	1214.612
24.5	1286.312	1289.522	1249.927	1217.823	1203.911
25.0	1277.751	1280.961	1240.296	1207.121	1193.209
25.5	1269.190	1271.330	1229.594	1196.420	1182.508
26.0	1259.558	1262.769	1218.893	1185.718	1170.736
26.5	1250.997	1253.137	1209.262	1173.947	1160.035

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**CANDELA TABULATION - (Cont.)**

27.0	1241.366	1243.506	1198.560	1163.245	1148.263
27.5	1231.735	1233.875	1187.859	1152.544	1137.562
28.0	1221.033	1224.244	1178.227	1141.843	1126.861
28.5	1211.402	1213.542	1166.456	1130.071	1115.089
29.0	1200.700	1202.841	1155.754	1119.370	1104.388
29.5	1191.069	1193.209	1145.053	1108.668	1092.616
30.0	1180.368	1182.508	1133.281	1096.897	1081.915
30.5	1169.666	1171.807	1122.580	1086.195	1069.715
31.0	1158.965	1160.035	1110.808	1074.424	1058.264
31.5	1148.263	1148.263	1099.037	1062.652	1046.493
32.0	1136.492	1136.492	1086.195	1050.559	1035.042
32.5	1125.790	1125.790	1074.424	1037.932	1022.629
33.0	1115.089	1112.949	1062.759	1025.518	1010.215
33.5	1103.317	1101.177	1050.452	1012.783	998.229
34.0	1092.616	1089.406	1038.039	1000.156	986.030
34.5	1081.915	1077.634	1025.946	987.528	973.081
35.0	1070.143	1065.327	1013.425	974.472	960.132
35.5	1059.013	1053.128	1000.905	961.738	946.755
36.0	1047.563	1040.607	988.705	948.789	933.058
36.5	1035.791	1028.621	976.077	935.519	919.253
37.0	1024.448	1015.994	963.664	922.677	905.127
37.5	1012.248	1003.794	950.929	909.300	891.001
38.0	999.942	991.594	938.194	896.138	876.982
38.5	987.956	979.288	925.567	883.082	863.284
39.0	975.863	966.874	912.618	869.598	849.265
39.5	963.129	954.996	899.776	856.649	835.996
40.0	950.501	942.582	887.149	843.273	825.294
40.5	938.622	930.168	874.521	831.287	812.774
41.0	925.674	917.969	862.214	819.623	800.574
41.5	913.367	905.662	849.480	806.995	788.588
42.0	901.060	893.462	836.638	794.902	777.031
42.5	888.647	880.728	825.615	783.024	766.008
43.0	876.768	868.849	815.021	771.466	755.307
43.5	864.997	856.542	803.142	760.979	746.532
44.0	852.797	844.343	791.371	751.026	735.830
44.5	840.276	832.143	780.027	740.860	725.129
45.0	828.398	820.158	768.684	730.052	714.427
45.5	816.412	810.205	758.838	719.350	703.833
46.0	804.855	798.113	748.886	708.756	693.132
46.5	793.618	786.020	737.757	698.054	682.537
47.0	785.699	775.319	726.627	687.460	671.943
47.5	773.927	763.547	715.498	676.758	661.241
48.0	762.156	752.739	704.261	666.164	650.754
48.5	750.384	740.967	693.132	655.356	640.160
49.0	738.827	729.195	681.895	644.761	629.779
49.5	727.269	717.531	670.766	634.167	619.399
50.0	715.819	705.866	659.636	623.679	609.125
50.5	704.261	694.202	648.507	613.299	598.959
51.0	692.704	682.644	637.484	602.919	588.686
51.5	681.146	670.980	626.462	592.431	578.626
52.0	669.588	659.422	615.653	582.051	568.460
52.5	658.031	648.079	604.952	571.777	558.294
53.0	646.366	636.842	594.357	561.504	548.234
53.5	635.023	625.606	583.870	551.231	538.068
54.0	623.679	614.369	573.383	541.064	527.902
54.5	612.443	603.240	563.002	530.898	517.628

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**CANDELA TABULATION - (Cont.)**

55.0	601.206	592.217	552.622	520.946	507.783
55.5	590.077	581.195	542.134	510.993	497.724
56.0	578.947	570.386	531.754	501.041	488.092
56.5	568.032	559.578	521.374	491.196	478.354
57.0	557.116	548.769	511.100	481.457	468.830
57.5	546.415	538.068	500.720	471.826	459.412
58.0	535.607	527.366	490.447	462.302	450.102
58.5	525.119	516.665	480.280	452.777	440.792
59.0	514.525	506.071	470.328	443.467	431.589
59.5	503.930	495.690	460.483	434.157	422.385
60.0	493.336	485.310	450.851	424.954	413.396
60.5	482.849	474.929	441.113	415.858	404.514
61.0	472.468	464.549	431.482	406.868	395.739
61.5	462.088	454.276	421.850	397.879	387.178
62.0	451.707	444.109	412.540	389.104	378.617
62.5	441.434	433.836	403.230	380.436	370.162
63.0	431.054	423.777	393.920	371.768	361.815
63.5	420.780	413.717	384.823	363.207	353.575
64.0	410.614	403.658	375.620	354.538	345.335
64.5	400.555	393.706	366.524	345.977	337.095
65.0	390.602	383.753	357.428	337.416	328.855
65.5	380.650	373.908	348.332	328.855	320.508
66.0	370.591	364.170	339.235	320.401	311.198
66.5	360.745	354.324	330.246	311.840	302.957
67.0	350.793	344.586	321.257	303.279	294.717
67.5	340.948	334.848	312.268	294.824	286.584
68.0	331.102	325.109	303.279	286.370	278.558
68.5	321.364	315.478	294.182	278.130	270.425
69.0	311.626	305.740	285.300	269.783	262.506
69.5	301.780	296.109	276.418	261.650	254.587
70.0	292.042	286.584	267.750	253.517	246.775
70.5	282.411	277.167	259.082	245.598	239.070
71.0	272.672	267.536	250.735	237.679	231.472
71.5	263.148	258.226	242.280	229.867	223.874
72.0	253.731	248.915	233.933	222.162	216.490
72.5	244.314	239.819	225.693	214.564	208.999
73.0	235.110	230.830	217.560	206.966	201.722
73.5	225.693	221.841	209.427	199.582	194.445
74.0	216.490	213.065	201.401	192.091	187.275
74.5	207.501	204.290	193.482	184.814	180.212
75.0	198.512	195.836	185.670	177.537	173.149
75.5	189.629	187.275	177.965	170.367	166.193
76.0	180.961	178.821	170.367	163.304	159.558
76.5	172.400	170.474	162.876	156.348	152.816
77.0	163.946	162.341	155.385	149.499	146.075
77.5	155.599	154.315	148.108	142.757	139.654
78.0	147.359	146.396	140.831	136.122	133.340
78.5	139.333	138.584	133.875	129.594	127.026
79.0	131.414	130.986	127.026	123.173	120.819
79.5	123.709	123.495	120.177	116.860	114.719
80.0	116.111	116.111	113.542	110.653	108.620
80.5	108.727	108.941	107.014	104.553	102.734
81.0	101.343	101.878	100.593	98.453	96.848
81.5	94.280	94.922	94.280	92.460	91.069
82.0	87.324	88.180	88.073	86.575	85.397
82.5	80.475	81.545	81.866	80.796	79.726

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**CANDELA TABULATION - (Cont.)**

83.0	73.947	75.017	75.766	75.124	74.268
83.5	67.526	68.810	69.880	69.559	68.810
84.0	61.212	62.603	64.102	63.995	63.459
84.5	55.112	56.718	58.430	58.644	58.109
85.0	49.227	50.939	52.972	53.400	52.865
85.5	43.555	45.481	47.621	48.156	47.728
86.0	37.990	40.023	42.271	43.127	42.806
86.5	32.746	34.780	37.134	38.097	37.776
87.0	27.610	29.643	31.997	33.174	32.960
87.5	22.687	24.720	27.075	28.466	28.359
88.0	17.871	19.905	22.366	23.971	24.078
88.5	13.056	15.196	17.871	19.691	19.905
89.0	8.240	10.594	13.377	15.410	15.410
89.5	3.638	6.528	9.203	11.022	11.129
90.0	0.642	3.210	6.100	8.133	8.775
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 : MX2RG-4-00-P8-8TW-F-POE X\_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 : MX2RG-4-00-P8-8TW-F-POE X\_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 : MX2RG-4-00-P8-8TW-F-POE X\_4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	535.65	N.A.	15.50
0-30	1106.02	N.A.	32.10
0-40	1740.86	N.A.	50.50
0-60	2834.89	N.A.	82.20
0-80	3389.2	N.A.	98.30
0-90	3448.38	N.A.	100.00
10-90	3307.64	N.A.	95.90
20-40	1205.22	N.A.	34.90
20-50	1802.25	N.A.	52.30
40-70	1450.22	N.A.	42.10
60-80	554.31	N.A.	16.10
70-80	198.11	N.A.	5.70
80-90	59.18	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	3448.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	140.73
10-20	394.91
20-30	570.37
30-40	634.84
40-50	597.03
50-60	497.00
60-70	356.19
70-80	198.11
80-90	59.18
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 : MX2RG-4-00-P8-8TW-F-POE X\_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	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 : MX2RG-4-00-P8-8TW-F-POE X\_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

X=2H	Y=2H	21.7	23.3	22.1	23.6	23.9	20.8	22.3	21.1	22.6	23.0
	3H	23.4	24.8	23.8	25.1	25.5	22.4	23.8	22.8	24.1	24.5
	4H	24.0	25.3	24.4	25.7	26.0	23.0	24.3	23.4	24.7	25.1
	6H	24.4	25.6	24.8	26.0	26.4	23.5	24.7	23.9	25.1	25.5
	8H	24.5	25.7	25.0	26.1	26.5	23.7	24.8	24.1	25.2	25.6
	12H	24.6	25.7	25.0	26.1	26.6	23.8	24.9	24.2	25.3	25.7

UGR Viewed Endwise

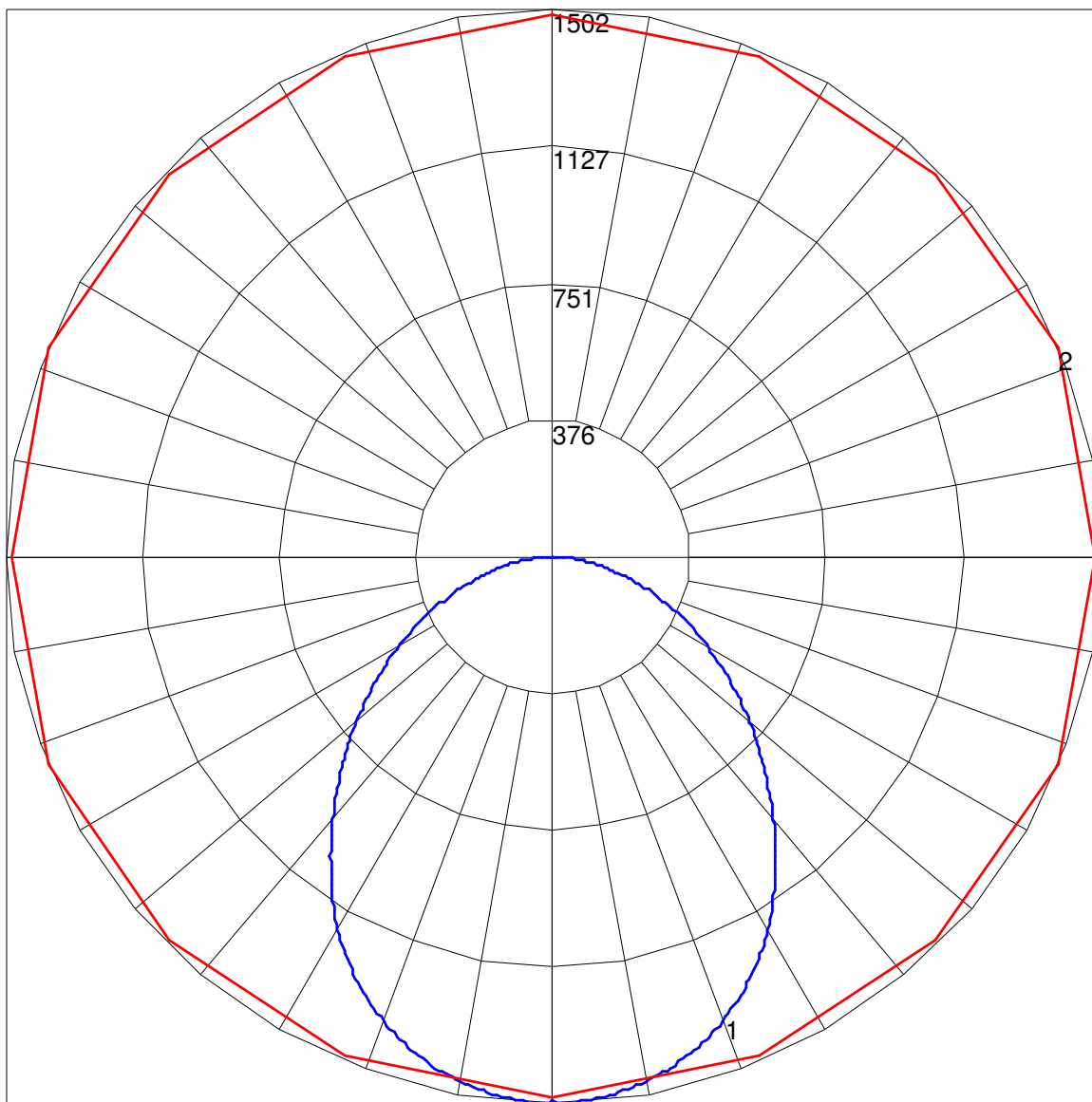
4H	2H	22.2	23.5	22.6	23.9	24.2	21.4	22.8	21.8	23.1	23.5
	3H	24.1	25.2	24.5	25.6	26.0	23.3	24.4	23.7	24.8	25.2
	4H	24.8	25.8	25.3	26.2	26.7	24.0	25.0	24.4	25.4	25.9
	6H	25.4	26.3	25.8	26.7	27.2	24.6	25.5	25.1	25.9	26.4
	8H	25.6	26.4	26.0	26.8	27.3	24.8	25.6	25.3	26.1	26.6
	12H	25.7	26.4	26.2	26.9	27.4	25.0	25.7	25.5	26.2	26.7

8H	4H	25.1	25.9	25.5	26.3	26.8	24.3	25.2	24.8	25.6	26.1
	6H	25.7	26.4	26.2	26.9	27.4	25.1	25.7	25.6	26.2	26.7
	8H	26.0	26.6	26.5	27.1	27.6	25.3	26.0	25.9	26.5	27.0
	12H	26.2	26.7	26.7	27.2	27.8	25.6	26.2	26.1	26.7	27.2

12H	4H	25.1	25.8	25.6	26.3	26.8	24.4	25.1	24.9	25.6	26.1
	6H	25.8	26.4	26.3	26.9	27.4	25.1	25.8	25.7	26.2	26.8
	8H	26.1	26.6	26.6	27.1	27.7	25.5	26.0	26.0	26.5	27.1

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 1502.481 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.)