



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RG-4-00-L8-935-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13012869.02
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 31 MARCH 2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MX2RG-5-00-L8-935-F-DIM-UNV
[LUMINAIRE] Formed White aluminum housing, frosted plastic lens
[LAMP] 144 White LEDs

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	34
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	19133	17754	16501
55	17119	15735	14459
65	15095	13813	12709
75	12526	11716	10926
85	9224	9926	9906

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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	1514.497	1514.497	1514.497	1514.497	1514.497
0.5	1512.326	1524.268	1512.326	1511.240	1509.069
1.0	1512.326	1524.268	1511.240	1511.240	1509.069
1.5	1512.326	1523.182	1511.240	1511.240	1507.983
2.0	1512.326	1523.182	1510.155	1510.155	1509.069
2.5	1511.240	1522.097	1509.069	1510.155	1507.983
3.0	1509.069	1521.011	1507.983	1509.069	1506.898
3.5	1509.069	1519.925	1506.898	1509.069	1505.812
4.0	1506.898	1518.840	1504.726	1506.898	1503.641
4.5	1505.812	1516.668	1503.641	1505.812	1501.469
5.0	1504.726	1514.497	1501.469	1503.641	1500.384
5.5	1502.555	1513.412	1499.298	1501.469	1498.212
6.0	1500.384	1511.240	1497.127	1499.298	1494.955
6.5	1498.212	1509.069	1494.955	1496.041	1492.784
7.0	1496.041	1505.812	1492.784	1493.870	1490.613
7.5	1492.784	1503.641	1489.527	1489.527	1487.356
8.0	1490.613	1500.384	1487.356	1486.270	1484.099
8.5	1487.356	1498.212	1484.099	1481.927	1479.756
9.0	1485.184	1494.955	1480.842	1478.670	1475.413
9.5	1481.927	1491.698	1477.585	1473.242	1471.071
10.0	1478.670	1487.356	1473.242	1468.899	1465.642
10.5	1475.413	1484.099	1469.985	1464.557	1460.214
11.0	1471.071	1480.842	1465.642	1459.128	1454.786
11.5	1466.728	1476.499	1461.300	1454.786	1448.272
12.0	1463.471	1472.156	1456.957	1448.272	1442.844
12.5	1459.128	1467.814	1451.529	1442.844	1435.244
13.0	1453.700	1463.471	1446.101	1436.330	1428.730
13.5	1450.443	1459.128	1439.587	1429.816	1422.216
14.0	1445.015	1453.700	1435.244	1423.302	1415.702
14.5	1439.587	1449.358	1428.730	1416.788	1408.102
15.0	1435.244	1442.844	1422.216	1409.188	1401.588
15.5	1429.816	1437.415	1415.702	1402.674	1393.989
16.0	1425.473	1431.987	1409.188	1395.074	1385.304
16.5	1420.045	1426.559	1402.674	1387.475	1377.704
17.0	1415.702	1421.130	1395.074	1379.875	1370.104
17.5	1409.188	1415.702	1387.475	1371.190	1361.419
18.0	1401.588	1410.274	1379.875	1362.505	1352.734
18.5	1395.074	1402.674	1372.276	1354.905	1344.048
19.0	1388.560	1396.160	1364.676	1346.220	1335.363
19.5	1380.961	1388.560	1355.991	1337.534	1325.592
20.0	1374.447	1380.961	1347.305	1327.763	1316.907
20.5	1366.847	1373.361	1339.706	1319.078	1307.136
21.0	1360.333	1365.762	1331.020	1309.307	1297.365
21.5	1353.819	1357.076	1322.335	1299.536	1287.594
22.0	1345.134	1349.477	1314.736	1288.680	1276.737
22.5	1337.534	1341.877	1304.965	1278.909	1265.881
23.0	1329.935	1333.192	1296.279	1268.052	1255.024
23.5	1322.335	1324.506	1287.594	1257.196	1243.082
24.0	1313.650	1316.907	1277.823	1246.339	1232.225
24.5	1304.965	1308.222	1268.052	1235.482	1221.369
25.0	1296.279	1299.536	1258.281	1224.626	1210.512
25.5	1287.594	1289.765	1247.425	1213.769	1199.655
26.0	1277.823	1281.080	1236.568	1202.912	1187.713
26.5	1269.138	1271.309	1226.797	1190.970	1176.857

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27.0	1259.367	1261.538	1215.940	1180.114	1164.914
27.5	1249.596	1251.767	1205.084	1169.257	1154.058
28.0	1238.739	1241.996	1195.313	1158.400	1143.201
28.5	1228.968	1231.140	1183.371	1146.458	1131.259
29.0	1218.112	1220.283	1172.514	1135.601	1120.402
29.5	1208.341	1210.512	1161.657	1124.745	1108.460
30.0	1197.484	1199.655	1149.715	1112.803	1097.603
30.5	1186.628	1188.799	1138.858	1101.946	1085.227
31.0	1175.771	1176.857	1126.916	1090.004	1073.610
31.5	1164.914	1164.914	1114.974	1078.061	1061.668
32.0	1152.972	1152.972	1101.946	1065.793	1050.051
32.5	1142.115	1142.115	1090.004	1052.983	1037.458
33.0	1131.259	1129.087	1078.170	1040.389	1024.864
33.5	1119.317	1117.145	1065.685	1027.470	1012.705
34.0	1108.460	1105.203	1053.091	1014.659	1000.328
34.5	1097.603	1093.261	1040.823	1001.848	987.192
35.0	1085.661	1080.776	1028.121	988.603	974.055
35.5	1074.370	1068.399	1015.419	975.684	960.484
36.0	1062.754	1055.697	1003.042	962.547	946.588
36.5	1050.811	1043.537	990.231	949.085	932.583
37.0	1039.303	1030.727	977.638	936.057	918.252
37.5	1026.927	1018.350	964.718	922.486	903.921
38.0	1014.442	1005.974	951.799	909.133	889.699
38.5	1002.282	993.488	938.988	895.888	875.803
39.0	990.014	980.895	925.852	882.208	861.581
39.5	977.095	968.844	912.824	869.072	848.118
40.0	964.284	956.250	900.013	855.501	837.262
40.5	952.233	943.657	887.202	843.342	824.560
41.0	939.097	931.280	874.717	831.508	812.183
41.5	926.612	918.795	861.798	818.697	800.024
42.0	914.127	906.418	848.770	806.429	788.298
42.5	901.533	893.499	837.588	794.378	777.116
43.0	889.482	881.448	826.839	782.653	766.260
43.5	877.540	868.963	814.789	772.014	757.357
44.0	865.163	856.587	802.846	761.917	746.501
44.5	852.461	844.210	791.338	751.603	735.644
45.0	840.410	832.051	779.830	740.638	724.787
45.5	828.251	821.954	769.842	729.781	714.039
46.0	816.526	809.686	759.746	719.033	703.183
46.5	805.126	797.418	748.455	708.177	692.435
47.0	797.092	786.561	737.164	697.429	681.687
47.5	785.150	774.619	725.873	686.572	670.830
48.0	773.208	763.654	714.474	675.824	660.190
48.5	761.266	751.712	703.183	664.859	649.442
49.0	749.540	739.769	691.783	654.111	638.912
49.5	737.815	727.936	680.492	643.363	628.381
50.0	726.199	716.102	669.201	632.723	617.958
50.5	714.474	704.268	657.911	622.192	607.644
51.0	702.748	692.543	646.728	611.661	597.222
51.5	691.023	680.709	635.546	601.022	587.017
52.0	679.298	668.984	624.581	590.491	576.703
52.5	667.573	657.476	613.724	580.069	566.389
53.0	655.739	646.077	602.976	569.646	556.184
53.5	644.231	634.677	592.337	559.224	545.870
54.0	632.723	623.278	581.697	548.910	535.557
54.5	621.324	611.987	571.166	538.596	525.134

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55.0	609.924	600.805	560.635	528.500	515.146
55.5	598.634	589.623	549.996	518.403	504.941
56.0	587.343	578.657	539.465	508.307	495.170
56.5	576.269	567.692	528.934	498.318	485.290
57.0	565.195	556.727	518.512	488.439	475.628
57.5	554.339	545.870	507.981	478.668	466.074
58.0	543.373	535.014	497.558	469.006	456.629
58.5	532.734	524.157	487.245	459.343	447.184
59.0	521.986	513.409	477.148	449.898	437.847
59.5	511.238	502.878	467.160	440.453	428.510
60.0	500.490	492.347	457.389	431.116	419.391
60.5	489.850	481.816	447.509	421.888	410.380
61.0	479.319	471.285	437.739	412.768	401.477
61.5	468.788	460.863	427.968	403.649	392.792
62.0	458.258	450.549	418.522	394.746	384.107
62.5	447.835	440.127	409.077	385.953	375.530
63.0	437.304	429.922	399.632	377.159	367.062
63.5	426.882	419.717	390.404	368.473	358.702
64.0	416.568	409.511	381.067	359.680	350.343
64.5	406.363	399.415	371.839	350.994	341.983
65.0	396.266	389.318	362.611	342.309	333.624
65.5	386.170	379.330	353.383	333.624	325.155
66.0	375.964	369.450	344.155	325.047	315.710
66.5	365.976	359.462	335.035	316.362	307.351
67.0	355.880	349.583	325.915	307.676	298.991
67.5	345.892	339.703	316.796	299.100	290.740
68.0	335.904	329.824	307.676	290.523	282.598
68.5	326.024	320.053	298.448	282.163	274.347
69.0	316.144	310.173	289.437	273.695	266.313
69.5	306.156	300.402	280.426	265.444	258.279
70.0	296.277	290.740	271.632	257.193	250.353
70.5	286.506	281.186	262.839	249.159	242.537
71.0	276.626	271.415	254.370	241.125	234.828
71.5	266.964	261.970	245.794	233.200	227.120
72.0	257.410	252.525	237.326	225.383	219.629
72.5	247.856	243.297	228.966	217.675	212.030
73.0	238.520	234.177	220.715	209.967	204.647
73.5	228.966	225.058	212.464	202.476	197.265
74.0	219.629	216.155	204.321	194.876	189.991
74.5	210.510	207.253	196.288	187.494	182.825
75.0	201.390	198.676	188.362	180.111	175.660
75.5	192.379	189.991	180.545	172.837	168.603
76.0	183.585	181.414	172.837	165.672	161.872
76.5	174.900	172.946	165.238	158.615	155.032
77.0	166.323	164.695	157.638	151.667	148.193
77.5	157.855	156.552	150.255	144.827	141.679
78.0	149.496	148.518	142.873	138.096	135.273
78.5	141.353	140.593	135.816	131.474	128.868
79.0	133.319	132.885	128.868	124.960	122.571
79.5	125.502	125.285	121.920	118.554	116.383
80.0	117.794	117.794	115.189	112.257	110.195
80.5	110.303	110.520	108.566	106.069	104.223
81.0	102.812	103.355	102.052	99.881	98.252
81.5	95.647	96.298	95.647	93.801	92.390
82.0	88.590	89.458	89.350	87.830	86.636
82.5	81.642	82.727	83.053	81.967	80.882

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CANDELA TABULATION - (Cont.)

83.0	75.019	76.105	76.865	76.213	75.345
83.5	68.505	69.808	70.894	70.568	69.808
84.0	62.100	63.511	65.031	64.923	64.380
84.5	55.912	57.540	59.277	59.494	58.951
85.0	49.940	51.677	53.740	54.174	53.632
85.5	44.186	46.141	48.312	48.855	48.420
86.0	38.541	40.604	42.884	43.752	43.426
86.5	33.221	35.284	37.672	38.650	38.324
87.0	28.010	30.073	32.461	33.655	33.438
87.5	23.016	25.079	27.467	28.879	28.770
88.0	18.131	20.193	22.690	24.319	24.427
88.5	13.245	15.416	18.131	19.976	20.193
89.0	8.360	10.748	13.571	15.634	15.634
89.5	3.691	6.623	9.337	11.182	11.291
90.0	0.651	3.257	6.188	8.251	8.902
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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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-L8-935-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 : MX2RG-4-00-L8-935-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 : MX2RG-4-00-L8-935-F-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.41	N.A.	15.50
0-30	1122.06	N.A.	32.10
0-40	1766.11	N.A.	50.50
0-60	2876.00	N.A.	82.20
0-80	3438.34	N.A.	98.30
0-90	3498.38	N.A.	100.00
10-90	3355.61	N.A.	95.90
20-40	1222.69	N.A.	34.90
20-50	1828.38	N.A.	52.30
40-70	1471.25	N.A.	42.10
60-80	562.34	N.A.	16.10
70-80	200.99	N.A.	5.70
80-90	60.04	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	3498.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.78
10-20	400.64
20-30	578.64
30-40	644.05
40-50	605.69
50-60	504.20
60-70	361.36
70-80	200.99
80-90	60.04
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-L8-935-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 : MX2RG-4-00-L8-935-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	21.8	23.4	22.2	23.7	24.0	20.9	22.4	21.2	22.7	23.1
	3H	23.5	24.9	23.9	25.2	25.6	22.5	23.9	22.9	24.2	24.6
	4H	24.1	25.4	24.5	25.8	26.1	23.1	24.4	23.5	24.8	25.2
	6H	24.5	25.7	24.9	26.1	26.5	23.6	24.8	24.0	25.2	25.6
	8H	24.6	25.8	25.1	26.2	26.6	23.8	24.9	24.2	25.3	25.7
	12H	24.7	25.8	25.1	26.2	26.7	23.9	25.0	24.3	25.4	25.8

UGR Viewed Endwise

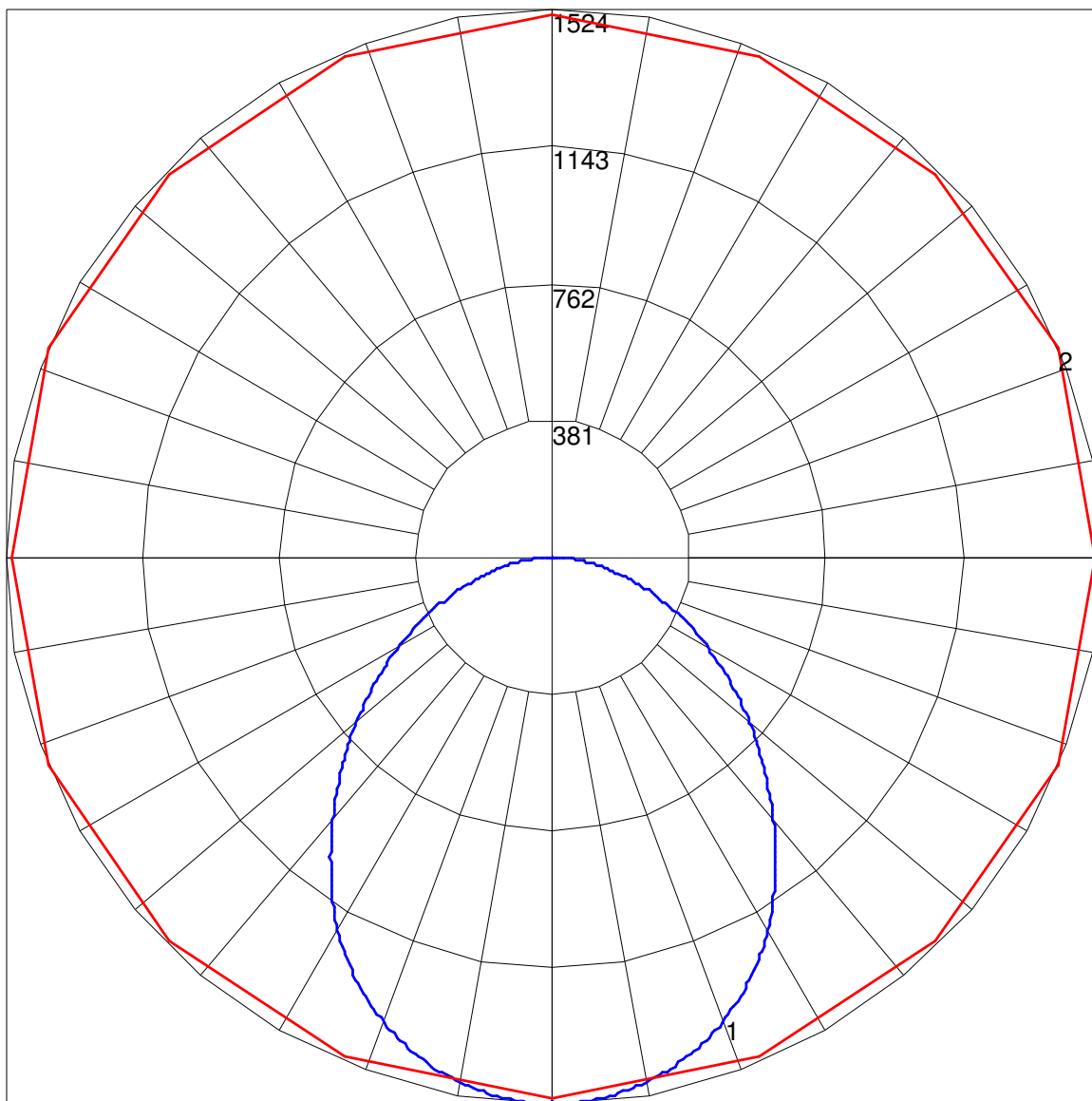
4H	2H	22.3	23.6	22.7	24.0	24.4	21.5	22.9	21.9	23.2	23.6
	3H	24.2	25.3	24.6	25.7	26.1	23.4	24.5	23.8	24.9	25.3
	4H	24.9	25.9	25.4	26.3	26.8	24.1	25.1	24.5	25.5	26.0
	6H	25.5	26.4	25.9	26.8	27.3	24.7	25.6	25.2	26.0	26.5
	8H	25.7	26.5	26.1	26.9	27.4	24.9	25.7	25.4	26.2	26.7
	12H	25.8	26.5	26.3	27.0	27.5	25.1	25.8	25.6	26.3	26.8

8H	4H	25.2	26.0	25.6	26.4	26.9	24.4	25.3	24.9	25.7	26.2
	6H	25.8	26.5	26.3	27.0	27.5	25.2	25.8	25.7	26.3	26.8
	8H	26.1	26.7	26.6	27.2	27.7	25.4	26.1	26.0	26.6	27.1
	12H	26.3	26.8	26.8	27.3	27.9	25.7	26.3	26.2	26.8	27.3

12H	4H	25.2	25.9	25.7	26.4	26.9	24.5	25.2	25.0	25.7	26.2
	6H	25.9	26.5	26.4	27.0	27.5	25.2	25.9	25.8	26.3	26.9
	8H	26.2	26.7	26.7	27.2	27.8	25.6	26.1	26.1	26.6	27.2

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 1524.268 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.)