



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RX-4-00-L8-8TW-F-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL 13012869.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 12/06/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2Rx-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	3481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	26.4
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	19035	17663	16416
55	17031	15654	14384
65	15017	13742	12643
75	12462	11656	10870
85	9177	9875	9855

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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	1506.703	1506.703	1506.703	1506.703	1506.703
0.5	1504.543	1516.424	1504.543	1503.463	1501.303
1.0	1504.543	1516.424	1503.463	1503.463	1501.303
1.5	1504.543	1515.344	1503.463	1503.463	1500.223
2.0	1504.543	1515.344	1502.383	1502.383	1501.303
2.5	1503.463	1514.264	1501.303	1502.383	1500.223
3.0	1501.303	1513.184	1500.223	1501.303	1499.143
3.5	1501.303	1512.104	1499.143	1501.303	1498.063
4.0	1499.143	1511.023	1496.982	1499.143	1495.902
4.5	1498.063	1508.863	1495.902	1498.063	1493.742
5.0	1496.982	1506.703	1493.742	1495.902	1492.662
5.5	1494.822	1505.623	1491.582	1493.742	1490.502
6.0	1492.662	1503.463	1489.422	1491.582	1487.262
6.5	1490.502	1501.303	1487.262	1488.342	1485.102
7.0	1488.342	1498.063	1485.102	1486.182	1482.942
7.5	1485.102	1495.902	1481.861	1481.861	1479.701
8.0	1482.942	1492.662	1479.701	1478.621	1476.461
8.5	1479.701	1490.502	1476.461	1474.301	1472.141
9.0	1477.541	1487.262	1473.221	1471.061	1467.821
9.5	1474.301	1484.022	1469.981	1465.660	1463.500
10.0	1471.061	1479.701	1465.660	1461.340	1458.100
10.5	1467.821	1476.461	1462.420	1457.020	1452.699
11.0	1463.500	1473.221	1458.100	1451.619	1447.299
11.5	1459.180	1468.901	1453.780	1447.299	1440.819
12.0	1455.940	1464.580	1449.459	1440.819	1435.418
12.5	1451.619	1460.260	1444.059	1435.418	1427.858
13.0	1446.219	1455.940	1438.659	1428.938	1421.377
13.5	1442.979	1451.619	1432.178	1422.457	1414.897
14.0	1437.578	1446.219	1427.858	1415.977	1408.416
14.5	1432.178	1441.899	1421.377	1409.497	1400.856
15.0	1427.858	1435.418	1414.897	1401.936	1394.375
15.5	1422.457	1430.018	1408.416	1395.456	1386.815
16.0	1418.137	1424.618	1401.936	1387.895	1378.174
16.5	1412.737	1419.217	1395.456	1380.335	1370.614
17.0	1408.416	1413.817	1387.895	1372.774	1363.053
17.5	1401.936	1408.416	1380.335	1364.133	1354.413
18.0	1394.375	1403.016	1372.774	1355.493	1345.772
18.5	1387.895	1395.456	1365.213	1347.932	1337.132
19.0	1381.415	1388.975	1357.653	1339.292	1328.491
19.5	1373.854	1381.415	1349.012	1330.651	1318.770
20.0	1367.374	1373.854	1340.372	1320.930	1310.130
20.5	1359.813	1366.294	1332.811	1312.290	1300.409
21.0	1353.333	1358.733	1324.171	1302.569	1290.688
21.5	1346.852	1350.092	1315.530	1292.849	1280.968
22.0	1338.212	1342.532	1307.970	1282.048	1270.167
22.5	1330.651	1334.971	1298.249	1272.327	1259.366
23.0	1323.091	1326.331	1289.608	1261.526	1248.565
23.5	1315.530	1317.690	1280.968	1250.726	1236.685
24.0	1306.889	1310.130	1271.247	1239.925	1225.884
24.5	1298.249	1301.489	1261.526	1229.124	1215.083
25.0	1289.608	1292.849	1251.806	1218.323	1204.282
25.5	1280.968	1283.128	1241.005	1207.523	1193.482
26.0	1271.247	1274.487	1230.204	1196.722	1181.601
26.5	1262.606	1264.767	1220.484	1184.841	1170.800

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CANDELA TABULATION - (Cont.)

27.0	1252.886	1255.046	1209.683	1174.040	1158.919
27.5	1243.165	1245.325	1198.882	1163.240	1148.119
28.0	1232.364	1235.605	1189.161	1152.439	1137.318
28.5	1222.644	1224.804	1177.281	1140.558	1125.437
29.0	1211.843	1214.003	1166.480	1129.757	1114.636
29.5	1202.122	1204.282	1155.679	1118.957	1102.756
30.0	1191.322	1193.482	1143.798	1107.076	1091.955
30.5	1180.521	1182.681	1132.998	1096.275	1079.642
31.0	1169.720	1170.800	1121.117	1084.394	1068.085
31.5	1158.919	1158.919	1109.236	1072.513	1056.204
32.0	1147.039	1147.039	1096.275	1060.309	1044.648
32.5	1136.238	1136.238	1084.394	1047.564	1032.119
33.0	1125.437	1123.277	1072.621	1035.035	1019.590
33.5	1113.556	1111.396	1060.201	1022.182	1007.493
34.0	1102.756	1099.515	1047.672	1009.437	995.180
34.5	1091.955	1087.634	1035.467	996.692	982.111
35.0	1080.074	1075.214	1022.830	983.515	969.042
35.5	1068.841	1062.901	1010.193	970.662	955.541
36.0	1057.284	1050.264	997.880	957.594	941.716
36.5	1045.404	1038.167	985.135	944.201	927.784
37.0	1033.955	1025.422	972.607	931.240	913.527
37.5	1021.642	1013.109	959.754	917.739	899.270
38.0	1009.221	1000.797	946.901	904.454	885.121
38.5	997.124	988.376	934.156	891.277	871.296
39.0	984.919	975.847	921.087	877.668	857.147
39.5	972.067	963.858	908.126	864.599	843.754
40.0	959.322	951.329	895.381	851.098	832.953
40.5	947.333	938.800	882.636	839.001	820.316
41.0	934.264	926.487	870.216	827.229	808.003
41.5	921.843	914.067	857.363	814.484	795.906
42.0	909.422	901.754	844.402	802.279	784.242
42.5	896.893	888.901	833.277	790.290	773.117
43.0	884.905	876.912	822.584	778.625	762.316
43.5	873.024	864.491	810.596	768.041	753.460
44.0	860.711	852.178	798.715	757.996	742.659
44.5	848.074	839.866	787.266	747.735	731.858
45.0	836.085	827.769	775.817	736.826	721.057
45.5	823.988	817.724	765.880	726.026	710.365
46.0	812.324	805.519	755.836	715.333	699.564
46.5	800.983	793.314	744.603	704.532	688.871
47.0	792.990	782.514	733.370	693.840	678.178
47.5	781.109	770.633	722.137	683.039	667.378
48.0	769.229	759.724	710.797	672.346	656.793
48.5	757.348	747.843	699.564	661.437	646.100
49.0	745.683	735.962	688.223	650.745	635.624
49.5	734.018	724.190	676.990	640.052	625.147
50.0	722.461	712.417	665.758	629.467	614.778
50.5	710.797	700.644	654.525	618.990	604.517
51.0	699.132	688.979	643.400	608.514	594.149
51.5	687.467	677.206	632.275	597.929	583.996
52.0	675.802	665.542	621.367	587.452	573.735
52.5	664.137	654.093	610.566	577.084	563.475
53.0	652.365	642.752	599.873	566.715	553.322
53.5	640.916	631.411	589.288	556.346	543.061
54.0	629.467	620.070	578.704	546.085	532.800
54.5	618.126	608.838	568.227	535.825	522.432

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CANDELA TABULATION - (Cont.)

55.0	606.786	597.713	557.750	525.780	512.495
55.5	595.553	586.588	547.165	515.735	502.342
56.0	584.320	575.679	536.689	505.691	492.622
56.5	573.303	564.771	526.212	495.754	482.793
57.0	562.286	553.862	515.843	485.925	473.180
57.5	551.486	543.061	505.367	476.205	463.676
58.0	540.577	532.260	494.998	466.592	454.279
58.5	529.992	521.460	484.737	456.979	444.882
59.0	519.300	510.767	474.693	447.583	435.594
59.5	508.607	500.290	464.756	438.186	426.305
60.0	497.914	489.814	455.035	428.897	417.233
60.5	487.329	479.337	445.206	419.717	408.268
61.0	476.853	468.860	435.486	410.644	399.411
61.5	466.376	458.491	425.765	401.571	390.771
62.0	455.899	448.231	416.369	392.715	382.130
62.5	445.531	437.862	406.972	383.966	373.598
63.0	435.054	427.709	397.575	375.218	365.173
63.5	424.685	417.557	388.395	366.577	356.856
64.0	414.424	407.404	379.106	357.829	348.540
64.5	404.272	397.359	369.925	349.188	340.223
65.0	394.227	387.315	360.745	340.547	331.907
65.5	384.182	377.378	351.564	331.907	323.482
66.0	374.030	367.549	342.383	323.374	314.086
66.5	364.093	357.612	333.311	314.734	305.769
67.0	354.048	347.784	324.238	306.093	297.452
67.5	344.112	337.955	315.166	297.560	289.244
68.0	334.175	328.126	306.093	289.028	281.143
68.5	324.346	318.406	296.912	280.711	272.935
69.0	314.518	308.577	287.948	272.287	264.942
69.5	304.581	298.856	278.983	264.078	256.950
70.0	294.752	289.244	270.235	255.870	249.065
70.5	285.032	279.739	261.486	247.877	241.289
71.0	275.203	270.018	253.061	239.884	233.620
71.5	265.590	260.622	244.529	232.000	225.951
72.0	256.086	251.225	236.104	224.223	218.499
72.5	246.581	242.045	227.788	216.555	210.938
73.0	237.292	232.972	219.579	208.886	203.594
73.5	227.788	223.899	211.370	201.434	196.249
74.0	218.499	215.043	203.270	193.873	189.013
74.5	209.426	206.186	195.277	186.529	181.884
75.0	200.354	197.654	187.393	179.184	174.756
75.5	191.389	189.013	179.616	171.948	167.735
76.0	182.641	180.480	171.948	164.819	161.039
76.5	174.000	172.056	164.387	157.799	154.235
77.0	165.467	163.847	156.827	150.886	147.430
77.5	157.043	155.747	149.482	144.082	140.950
78.0	148.726	147.754	142.138	137.385	134.577
78.5	140.626	139.870	135.117	130.797	128.205
79.0	132.633	132.201	128.205	124.317	121.940
79.5	124.857	124.641	121.292	117.944	115.784
80.0	117.188	117.188	114.596	111.680	109.628
80.5	109.736	109.952	108.007	105.523	103.687
81.0	102.283	102.823	101.527	99.367	97.747
81.5	95.155	95.803	95.155	93.318	91.914
82.0	88.134	88.998	88.890	87.378	86.190
82.5	81.222	82.302	82.626	81.546	80.466

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CANDELA TABULATION - (Cont.)

83.0	74.633	75.713	76.469	75.821	74.957
83.5	68.153	69.449	70.529	70.205	69.449
84.0	61.780	63.184	64.696	64.588	64.048
84.5	55.624	57.244	58.972	59.188	58.648
85.0	49.683	51.412	53.464	53.896	53.356
85.5	43.959	45.903	48.063	48.603	48.171
86.0	38.343	40.395	42.663	43.527	43.203
86.5	33.050	35.102	37.479	38.451	38.127
87.0	27.866	29.918	32.294	33.482	33.266
87.5	22.898	24.950	27.326	28.730	28.622
88.0	18.037	20.089	22.574	24.194	24.302
88.5	13.177	15.337	18.037	19.873	20.089
89.0	8.317	10.693	13.501	15.553	15.553
89.5	3.672	6.588	9.289	11.125	11.233
90.0	0.648	3.240	6.156	8.209	8.857
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-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 : MX2RX-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 : MX2RX-4-00-L8-8TW-F-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.62	N.A.	15.50
0-30	1116.28	N.A.	32.10
0-40	1757.02	N.A.	50.50
0-60	2861.2	N.A.	82.20
0-80	3420.65	N.A.	98.30
0-90	3480.38	N.A.	100.00
10-90	3338.34	N.A.	95.90
20-40	1216.4	N.A.	34.90
20-50	1818.97	N.A.	52.30
40-70	1463.68	N.A.	42.10
60-80	559.45	N.A.	16.10
70-80	199.95	N.A.	5.70
80-90	59.73	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	3480.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.04
10-20	398.58
20-30	575.67
30-40	640.74
40-50	602.57
50-60	501.61
60-70	359.50
70-80	199.95
80-90	59.73
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-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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	105	105	105	103
1	113	108	104	100	110	106	102	99	101	98	95	97	95	93	94	92	90	88
2	103	95	88	83	101	93	87	82	90	84	80	86	82	78	83	80	76	74
3	95	84	76	70	92	83	75	69	80	73	68	77	71	67	74	70	66	63
4	87	75	66	60	85	74	66	59	71	64	59	69	63	58	67	61	57	55
5	80	68	59	52	78	66	58	52	64	57	51	62	56	51	60	55	50	48
6	74	61	52	46	72	60	52	46	58	51	45	57	50	45	55	49	44	42
7	69	56	47	41	67	55	47	41	53	46	40	52	45	40	50	44	40	38
8	65	51	43	37	63	50	42	37	49	42	36	48	41	36	47	40	36	34
9	60	47	39	33	59	46	39	33	45	38	33	44	38	33	43	37	33	31
10	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28

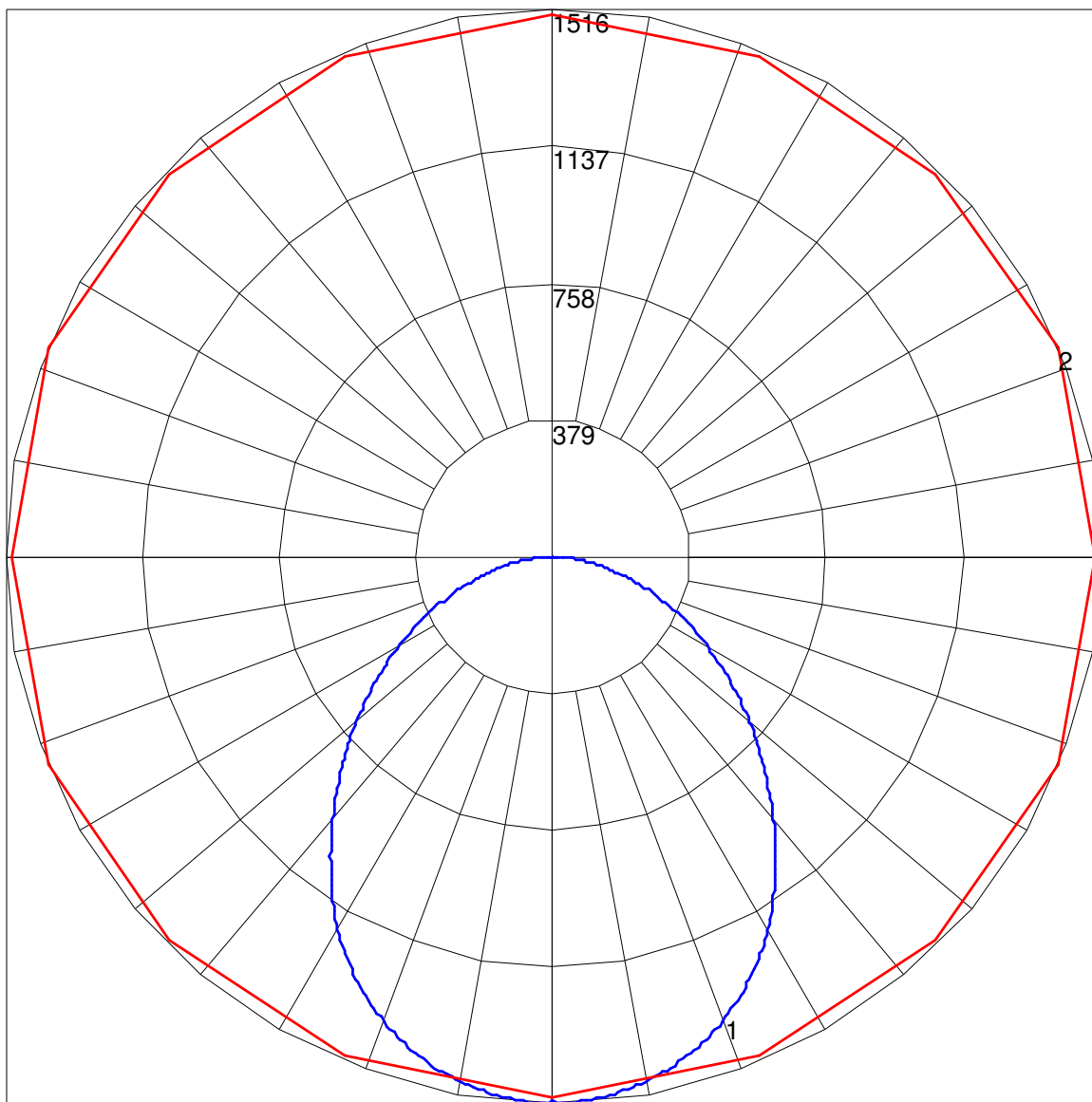
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2RX-4-00-L8-8TW-F-DIM-UNV 4000K_.IES

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	21.6	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 = 1516.424 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.)