



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2RX-4-00-L10-835-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL 13012869.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 11/21/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] MX2Rx-4-00-L10-835-F-DIM-UNV
 [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	5059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	40.4
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	27666	25672	23860
55	24753	22753	20907
65	21827	19973	18376
75	18113	16941	15799
85	13338	14353	14324

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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	2189.916	2189.916	2189.916	2189.916	2189.916
0.5	2186.776	2204.044	2186.776	2185.206	2182.066
1.0	2186.776	2204.044	2185.206	2185.206	2182.066
1.5	2186.776	2202.474	2185.206	2185.206	2180.497
2.0	2186.776	2202.474	2183.636	2183.636	2182.066
2.5	2185.206	2200.904	2182.066	2183.636	2180.497
3.0	2182.066	2199.335	2180.497	2182.066	2178.927
3.5	2182.066	2197.765	2178.927	2182.066	2177.357
4.0	2178.927	2196.195	2175.787	2178.927	2174.217
4.5	2177.357	2193.055	2174.217	2177.357	2171.078
5.0	2175.787	2189.916	2171.078	2174.217	2169.508
5.5	2172.647	2188.346	2167.938	2171.078	2166.368
6.0	2169.508	2185.206	2164.798	2167.938	2161.659
6.5	2166.368	2182.066	2161.659	2163.228	2158.519
7.0	2163.228	2177.357	2158.519	2160.089	2155.379
7.5	2158.519	2174.217	2153.809	2153.809	2150.670
8.0	2155.379	2169.508	2150.670	2149.100	2145.960
8.5	2150.670	2166.368	2145.960	2142.821	2139.681
9.0	2147.530	2161.659	2141.251	2138.111	2133.402
9.5	2142.821	2156.949	2136.541	2130.262	2127.122
10.0	2138.111	2150.670	2130.262	2123.983	2119.273
10.5	2133.402	2145.960	2125.552	2117.703	2111.424
11.0	2127.122	2141.251	2119.273	2109.854	2103.575
11.5	2120.843	2134.971	2112.994	2103.575	2094.156
12.0	2116.133	2128.692	2106.715	2094.156	2086.307
12.5	2109.854	2122.413	2098.865	2086.307	2075.318
13.0	2102.005	2116.133	2091.016	2076.888	2065.899
13.5	2097.296	2109.854	2081.597	2067.469	2056.480
14.0	2089.446	2102.005	2075.318	2058.050	2047.061
14.5	2081.597	2095.726	2065.899	2048.631	2036.072
15.0	2075.318	2086.307	2056.480	2037.642	2026.653
15.5	2067.469	2078.458	2047.061	2028.223	2015.664
16.0	2061.189	2070.608	2037.642	2017.234	2003.106
16.5	2053.340	2062.759	2028.223	2006.245	1992.117
17.0	2047.061	2054.910	2017.234	1995.256	1981.128
17.5	2037.642	2047.061	2006.245	1982.698	1968.569
18.0	2026.653	2039.212	1995.256	1970.139	1956.011
18.5	2017.234	2028.223	1984.268	1959.150	1943.452
19.0	2007.815	2018.804	1973.279	1946.592	1930.893
19.5	1996.826	2007.815	1960.720	1934.033	1916.765
20.0	1987.407	1996.826	1948.161	1919.904	1904.206
20.5	1976.418	1985.837	1937.173	1907.346	1890.078
21.0	1966.999	1974.849	1924.614	1893.217	1875.949
21.5	1957.580	1962.290	1912.055	1879.089	1861.821
22.0	1945.022	1951.301	1901.067	1863.391	1846.122
22.5	1934.033	1940.312	1886.938	1849.262	1830.424
23.0	1923.044	1927.754	1874.379	1833.564	1814.726
23.5	1912.055	1915.195	1861.821	1817.865	1797.458
24.0	1899.497	1904.206	1847.692	1802.167	1781.759
24.5	1886.938	1891.648	1833.564	1786.469	1766.061
25.0	1874.379	1879.089	1819.435	1770.770	1750.363
25.5	1861.821	1864.960	1803.737	1755.072	1734.664
26.0	1847.692	1852.402	1788.039	1739.374	1717.396
26.5	1835.134	1838.273	1773.910	1722.106	1701.698

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CANDELA TABULATION - (Cont.)

27.0	1821.005	1824.145	1758.212	1706.407	1684.430
27.5	1806.877	1810.016	1742.513	1690.709	1668.731
28.0	1791.178	1795.888	1728.385	1675.011	1653.033
28.5	1777.050	1780.189	1711.117	1657.743	1635.765
29.0	1761.351	1764.491	1695.419	1642.044	1620.067
29.5	1747.223	1750.363	1679.720	1626.346	1602.798
30.0	1731.525	1734.664	1662.452	1609.078	1587.100
30.5	1715.826	1718.966	1646.754	1593.379	1569.204
31.0	1700.128	1701.698	1629.486	1576.111	1552.407
31.5	1684.430	1684.430	1612.217	1558.843	1535.139
32.0	1667.162	1667.162	1593.379	1541.104	1518.341
32.5	1651.463	1651.463	1576.111	1522.580	1500.131
33.0	1635.765	1632.625	1559.000	1504.370	1481.921
33.5	1618.497	1615.357	1540.947	1485.689	1464.339
34.0	1602.798	1598.089	1522.737	1467.165	1446.443
34.5	1587.100	1580.821	1504.998	1448.641	1427.448
35.0	1569.832	1562.768	1486.631	1429.489	1408.453
35.5	1553.506	1544.872	1468.264	1410.808	1388.830
36.0	1536.709	1526.505	1450.368	1391.813	1368.736
36.5	1519.440	1508.922	1431.844	1372.347	1348.486
37.0	1502.800	1490.398	1413.634	1353.509	1327.764
37.5	1484.904	1472.502	1394.953	1333.886	1307.042
38.0	1466.851	1454.606	1376.272	1314.577	1286.477
38.5	1449.269	1436.553	1357.748	1295.425	1266.383
39.0	1431.530	1418.343	1338.753	1275.645	1245.819
39.5	1412.849	1400.918	1319.915	1256.650	1226.353
40.0	1394.325	1382.708	1301.391	1237.028	1210.654
40.5	1376.900	1364.498	1282.867	1219.445	1192.287
41.0	1357.905	1346.602	1264.814	1202.334	1174.391
41.5	1339.852	1328.549	1246.133	1183.810	1156.809
42.0	1321.799	1310.653	1227.295	1166.071	1139.855
42.5	1303.588	1291.972	1211.125	1148.646	1123.686
43.0	1286.163	1274.547	1195.584	1131.692	1107.987
43.5	1268.895	1256.494	1178.159	1116.308	1095.115
44.0	1250.999	1238.597	1160.891	1101.708	1079.416
44.5	1232.632	1220.701	1144.251	1086.795	1063.718
45.0	1215.207	1203.119	1127.610	1070.939	1048.020
45.5	1197.625	1188.520	1113.168	1055.241	1032.478
46.0	1180.671	1170.781	1098.568	1039.700	1016.780
46.5	1164.187	1153.042	1082.242	1024.001	1001.239
47.0	1152.571	1137.343	1065.916	1008.460	985.697
47.5	1135.302	1120.075	1049.590	992.762	969.999
48.0	1118.034	1104.220	1033.106	977.220	954.615
48.5	1100.766	1086.952	1016.780	961.365	939.073
49.0	1083.812	1069.684	1000.297	945.824	923.846
49.5	1066.858	1052.572	983.971	930.282	908.619
50.0	1050.061	1035.461	967.644	914.898	893.548
50.5	1033.106	1018.350	951.318	899.671	878.635
51.0	1016.152	1001.396	935.149	884.443	863.565
51.5	999.198	984.285	918.980	869.059	848.808
52.0	982.244	967.330	903.124	853.832	833.895
52.5	965.290	950.690	887.426	838.761	818.981
53.0	948.179	934.207	871.885	823.691	804.225
53.5	931.538	917.724	856.500	808.620	789.312
54.0	914.898	901.241	841.116	793.707	774.398
54.5	898.415	884.914	825.889	778.794	759.328

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CANDELA TABULATION - (Cont.)

55.0	881.932	868.745	810.661	764.194	744.885
55.5	865.605	852.576	795.277	749.595	730.129
56.0	849.279	836.720	780.050	734.995	716.000
56.5	833.267	820.865	764.822	720.553	701.715
57.0	817.255	805.010	749.752	706.267	687.743
57.5	801.556	789.312	734.524	692.139	673.929
58.0	785.701	773.613	719.454	678.167	660.271
58.5	770.317	757.915	704.541	664.196	646.614
59.0	754.775	742.374	689.941	650.538	633.113
59.5	739.234	727.146	675.499	636.881	619.613
60.0	723.693	711.919	661.370	623.380	606.426
60.5	708.308	696.691	647.085	610.037	593.396
61.0	693.081	681.464	632.956	596.850	580.524
61.5	677.853	666.394	618.828	583.664	567.965
62.0	662.626	651.480	605.170	570.791	555.407
62.5	647.556	636.410	591.513	558.075	543.005
63.0	632.328	621.653	577.855	545.360	530.760
63.5	617.258	606.897	564.512	532.801	518.672
64.0	602.345	592.141	551.011	520.085	506.585
64.5	587.588	577.541	537.667	507.527	494.497
65.0	572.989	562.942	524.324	494.968	482.409
65.5	558.389	548.499	510.980	482.409	470.165
66.0	543.633	534.214	497.637	470.008	456.507
66.5	529.190	519.771	484.450	457.449	444.419
67.0	514.591	505.486	471.264	444.890	432.332
67.5	500.148	491.200	458.077	432.489	420.401
68.0	485.706	476.915	444.890	420.087	408.627
68.5	471.421	462.786	431.547	407.999	396.697
69.0	457.135	448.501	418.517	395.755	385.080
69.5	442.693	434.373	405.488	383.824	373.463
70.0	428.407	420.401	392.772	371.893	362.003
70.5	414.279	406.586	380.056	360.276	350.700
71.0	399.993	392.458	367.812	348.660	339.555
71.5	386.022	378.800	355.410	337.200	328.409
72.0	372.207	365.143	343.165	325.897	317.577
72.5	358.393	351.799	331.078	314.751	306.588
73.0	344.892	338.613	319.147	303.606	295.913
73.5	331.078	325.426	307.216	292.774	285.238
74.0	317.577	312.554	295.442	281.785	274.721
74.5	304.390	299.681	283.826	271.110	264.360
75.0	291.204	287.279	272.366	260.435	253.999
75.5	278.174	274.721	261.063	249.917	243.795
76.0	265.459	262.319	249.917	239.556	234.062
76.5	252.900	250.074	238.928	229.352	224.172
77.0	240.498	238.144	227.940	219.306	214.282
77.5	228.254	226.370	217.265	209.416	204.863
78.0	216.166	214.753	206.590	199.683	195.601
78.5	204.392	203.293	196.386	190.107	186.339
79.0	192.775	192.147	186.339	180.688	177.234
79.5	181.473	181.159	176.292	171.426	168.286
80.0	170.327	170.327	166.559	162.321	159.338
80.5	159.495	159.809	156.983	153.373	150.704
81.0	148.663	149.448	147.564	144.425	142.070
81.5	138.302	139.244	138.302	135.633	133.593
82.0	128.098	129.354	129.197	126.999	125.273
82.5	118.051	119.621	120.092	118.522	116.952

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CANDELA TABULATION - (Cont.)

83.0	108.475	110.045	111.144	110.202	108.946
83.5	99.056	100.940	102.510	102.039	100.940
84.0	89.794	91.835	94.033	93.876	93.091
84.5	80.846	83.201	85.713	86.027	85.242
85.0	72.212	74.724	77.707	78.335	77.550
85.5	63.892	66.718	69.858	70.642	70.015
86.0	55.729	58.712	62.008	63.264	62.793
86.5	48.037	51.020	54.473	55.886	55.415
87.0	40.502	43.484	46.938	48.665	48.351
87.5	33.280	36.263	39.717	41.758	41.601
88.0	26.216	29.199	32.809	35.164	35.321
88.5	19.152	22.292	26.216	28.885	29.199
89.0	12.088	15.541	19.623	22.606	22.606
89.5	5.337	9.576	13.501	16.169	16.326
90.0	0.942	4.709	8.948	11.931	12.873
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-L10-835-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
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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-L10-835-F-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	785.76	N.A.	15.50
0-30	1622.46	N.A.	32.10
0-40	2553.73	N.A.	50.50
0-60	4158.61	N.A.	82.20
0-80	4971.74	N.A.	98.30
0-90	5058.55	N.A.	100.00
10-90	4852.1	N.A.	95.90
20-40	1767.98	N.A.	34.90
20-50	2643.79	N.A.	52.30
40-70	2127.38	N.A.	42.10
60-80	813.13	N.A.	16.10
70-80	290.62	N.A.	5.70
80-90	86.81	N.A.	1.70
90-110	0.22	N.A.	0.00
90-120	0.22	N.A.	0.00
90-130	0.22	N.A.	0.00
90-150	0.22	N.A.	0.00
90-180	0.22	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5058.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.45
10-20	579.31
20-30	836.70
30-40	931.28
40-50	875.81
50-60	729.06
60-70	522.51
70-80	290.62
80-90	86.81
90-100	0.22
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-L10-835-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	179	179	179	179	174	174	174	174	167	167	167	160	160	160	153	153	153	150
1	164	157	151	146	160	154	148	143	147	143	139	142	138	134	136	133	131	127
2	150	138	128	120	146	135	126	119	130	123	116	125	119	113	121	116	111	108
3	137	122	111	101	134	120	109	100	116	106	99	112	104	97	108	101	95	92
4	126	109	97	87	123	107	95	86	104	93	85	100	91	84	97	89	83	80
5	117	98	85	76	114	97	84	75	93	83	74	90	81	74	88	79	73	70
6	108	89	76	67	105	87	75	66	85	74	66	82	73	65	80	71	65	62
7	101	81	68	59	98	80	68	59	77	67	59	75	66	58	73	65	58	55
8	94	74	62	53	92	73	61	53	71	61	53	69	60	53	68	59	52	49
9	88	68	56	48	86	67	56	48	66	55	48	64	55	48	63	54	47	45
10	83	63	52	44	81	63	51	44	61	51	44	60	50	44	58	50	43	41

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2RX-4-00-L10-835-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	21.6	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

UGR Viewed Endwise

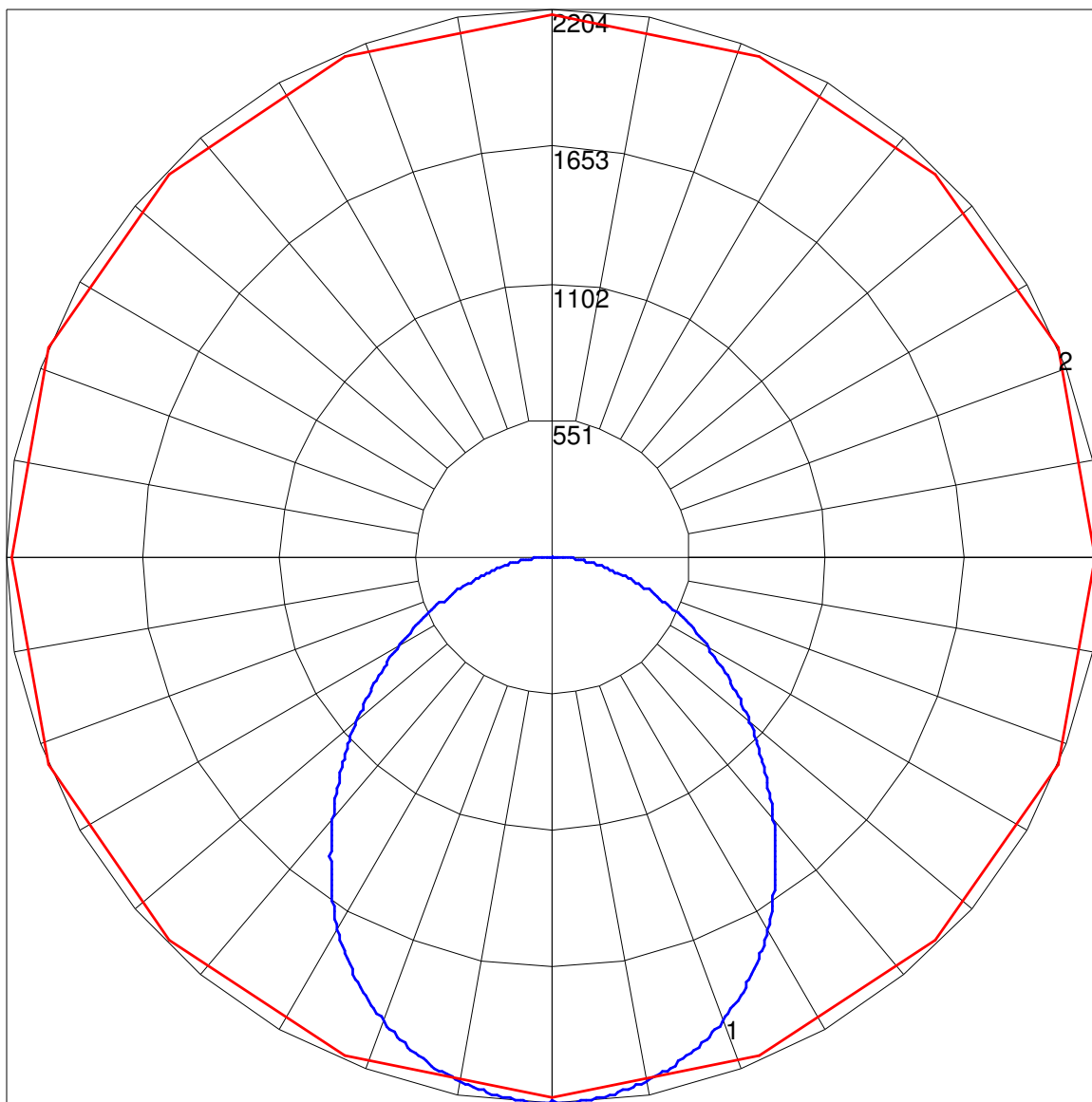
4H	2H	22.1	23.4	22.5	23.8	24.2	21.3	22.7	21.7	23.0	23.4
	3H	24.0	25.1	24.4	25.5	25.9	23.2	24.3	23.6	24.7	25.1
	4H	24.7	25.7	25.2	26.1	26.6	23.9	24.9	24.3	25.3	25.8
	6H	25.3	26.2	25.7	26.6	27.1	24.5	25.4	25.0	25.8	26.3
	8H	25.5	26.3	25.9	26.7	27.2	24.7	25.5	25.2	26.0	26.5
	12H	25.6	26.3	26.1	26.8	27.3	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 = 2204.044 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.)