



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13012869.08  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 01/11/2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV  
 [LUMINAIRE] DIRECT INDIRECT TWO INCH WIDE  
 [MORE] LINEAR LED LUMINAIRE  
 [MORE] W/FLAT DIFFUSE ACRYLIC LENSING  
 [LAMP] HLMX 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	76.1
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	5.75 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.33 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15921	6294	4717
55	13657	4381	3170
65	11470	2830	1994
75	8641	1514	1065
85	4447	469	350

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES

## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1961.945	1961.945	1961.945	1961.945	1961.945
0.5	1956.075	1973.684	1957.542	1959.010	1959.010
1.0	1956.075	1972.216	1957.542	1959.010	1959.010
1.5	1956.075	1972.216	1957.542	1959.010	1960.477
2.0	1954.607	1972.216	1956.075	1959.010	1960.477
2.5	1954.607	1970.749	1956.075	1960.477	1960.477
3.0	1953.140	1969.282	1954.607	1959.010	1959.010
3.5	1951.673	1967.814	1953.140	1959.010	1959.010
4.0	1948.738	1966.347	1951.673	1957.542	1957.542
4.5	1947.270	1964.879	1950.205	1956.075	1956.075
5.0	1945.803	1961.945	1947.270	1954.607	1953.140
5.5	1942.868	1960.477	1945.803	1951.673	1950.205
6.0	1939.933	1957.542	1942.868	1948.738	1947.270
6.5	1936.998	1954.607	1939.933	1944.335	1944.335
7.0	1934.063	1951.673	1936.998	1939.933	1939.933
7.5	1929.661	1948.738	1932.596	1935.531	1934.063
8.0	1926.726	1944.335	1929.661	1929.661	1928.194
8.5	1922.324	1939.933	1925.259	1923.792	1922.324
9.0	1917.922	1936.998	1920.857	1917.922	1916.454
9.5	1913.520	1932.596	1916.454	1912.052	1909.117
10.0	1909.117	1928.194	1910.585	1904.715	1900.313
10.5	1904.715	1923.792	1906.182	1898.845	1891.508
11.0	1900.313	1917.922	1898.845	1891.508	1884.171
11.5	1894.443	1912.052	1892.976	1882.704	1875.367
12.0	1888.573	1907.650	1885.639	1875.367	1865.095
12.5	1882.704	1901.780	1878.301	1866.562	1856.290
13.0	1876.834	1895.910	1870.964	1857.757	1846.018
13.5	1870.964	1888.573	1863.627	1848.953	1835.746
14.0	1863.627	1882.704	1854.823	1840.148	1826.942
14.5	1857.757	1875.367	1846.018	1829.876	1816.670
15.0	1850.420	1868.029	1837.214	1819.604	1804.930
15.5	1841.616	1860.692	1828.409	1809.333	1794.658
16.0	1834.279	1853.355	1819.604	1799.061	1782.919
16.5	1826.942	1844.551	1809.333	1787.321	1771.180
17.0	1819.604	1835.746	1799.061	1777.049	1760.908
17.5	1810.800	1828.409	1788.789	1765.310	1749.168
18.0	1801.995	1818.137	1778.517	1753.570	1737.429
18.5	1794.658	1809.333	1768.245	1743.298	1725.689
19.0	1785.854	1800.528	1756.505	1730.092	1712.483
19.5	1777.049	1790.256	1744.766	1718.352	1700.743
20.0	1766.777	1779.984	1733.027	1706.613	1687.536
20.5	1757.973	1771.180	1721.287	1693.406	1672.862
21.0	1749.168	1759.440	1709.548	1678.732	1661.123
21.5	1738.896	1749.168	1697.808	1665.525	1644.981
22.0	1728.624	1738.896	1686.069	1652.318	1631.774
22.5	1718.352	1727.157	1672.862	1637.644	1618.568
23.0	1708.080	1716.885	1661.123	1622.970	1602.426
23.5	1697.808	1705.145	1647.916	1608.296	1587.752
24.0	1686.069	1693.406	1634.709	1593.621	1571.610
24.5	1675.797	1681.667	1622.970	1578.947	1556.936
25.0	1662.590	1669.927	1608.296	1562.805	1540.794
25.5	1650.851	1658.188	1595.089	1548.131	1526.120
26.0	1639.111	1644.981	1581.882	1533.457	1511.446
26.5	1625.905	1631.774	1567.208	1518.783	1495.304

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1614.165	1618.568	1554.001	1502.641	1479.162
27.5	1600.958	1605.361	1539.327	1487.967	1464.195
28.0	1586.284	1592.154	1526.120	1471.825	1448.640
28.5	1573.077	1578.947	1509.978	1457.004	1433.672
29.0	1558.403	1564.273	1495.304	1441.743	1418.851
29.5	1545.196	1551.066	1480.630	1426.482	1403.003
30.0	1530.522	1536.392	1465.075	1411.661	1387.008
30.5	1517.315	1520.250	1449.667	1396.106	1372.334
31.0	1502.641	1507.043	1433.966	1380.405	1355.752
31.5	1486.499	1490.902	1417.824	1364.557	1339.904
32.0	1473.293	1474.760	1401.829	1348.268	1323.909
32.5	1457.298	1459.352	1385.541	1331.099	1308.061
33.0	1443.064	1442.917	1368.812	1314.517	1290.892
33.5	1427.656	1427.362	1352.377	1297.936	1274.163
34.0	1412.101	1410.927	1335.648	1281.060	1258.462
34.5	1396.987	1394.052	1318.773	1263.745	1241.880
35.0	1381.872	1377.617	1302.338	1246.429	1224.124
35.5	1366.758	1360.301	1285.609	1228.967	1206.075
36.0	1351.497	1344.013	1268.147	1211.945	1188.759
36.5	1335.942	1327.137	1251.418	1194.189	1171.004
37.0	1320.240	1310.702	1234.249	1176.726	1151.780
37.5	1303.512	1293.974	1217.521	1158.971	1132.997
38.0	1287.810	1277.245	1200.205	1140.921	1114.361
38.5	1271.229	1260.223	1183.477	1122.725	1096.312
39.0	1254.647	1243.641	1165.868	1105.263	1081.050
39.5	1237.771	1227.353	1148.845	1090.295	1064.469
40.0	1221.189	1211.358	1131.530	1073.273	1046.566
40.5	1204.167	1194.482	1114.508	1056.985	1028.957
41.0	1187.879	1177.900	1099.100	1039.376	1012.082
41.5	1171.444	1161.759	1085.159	1022.060	995.646
42.0	1154.568	1145.030	1068.577	1005.478	979.652
42.5	1137.840	1128.742	1053.023	989.337	964.244
43.0	1121.551	1112.453	1036.588	973.635	949.129
43.5	1105.997	1097.632	1020.593	958.374	934.455
44.0	1091.029	1084.279	1004.891	943.553	920.074
44.5	1079.583	1068.284	989.337	929.025	905.987
45.0	1063.441	1052.582	974.075	914.791	891.753
45.5	1047.593	1037.028	959.108	900.704	877.812
46.0	1032.039	1021.033	944.433	886.910	863.872
46.5	1016.337	1005.038	929.759	872.970	850.078
47.0	1000.929	989.190	915.378	859.176	836.138
47.5	985.228	973.342	900.851	845.382	822.344
48.0	969.820	957.787	886.470	831.442	808.550
48.5	954.412	942.232	871.943	817.648	794.903
49.0	939.004	926.824	857.562	803.561	781.403
49.5	923.743	911.416	843.034	789.914	767.902
50.0	908.628	896.155	828.654	776.267	754.549
50.5	893.367	880.894	814.126	762.620	741.489
51.0	878.106	865.780	799.599	749.119	728.429
51.5	862.991	850.665	785.218	735.619	715.369
52.0	847.730	835.551	771.131	722.266	702.309
52.5	832.469	820.730	757.044	709.059	689.395
53.0	817.208	805.762	743.250	695.852	676.629
53.5	802.093	790.941	729.603	682.645	663.422
54.0	787.126	776.413	716.102	669.732	650.509
54.5	772.158	761.739	702.749	656.525	637.595

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	757.337	747.359	689.395	643.465	624.682
55.5	742.516	733.125	676.189	630.698	611.915
56.0	727.842	718.891	662.982	617.785	599.002
56.5	713.314	704.950	649.775	605.312	586.529
57.0	698.934	690.863	636.568	592.692	574.203
57.5	684.700	676.775	623.361	580.366	562.170
58.0	670.759	662.688	610.301	568.039	550.137
58.5	656.819	648.748	597.241	556.007	538.544
59.0	643.465	635.101	584.475	543.974	526.805
59.5	630.258	621.600	571.561	532.088	515.359
60.0	617.051	608.100	558.941	520.348	504.060
60.5	603.991	594.747	546.468	508.756	492.761
61.0	590.784	581.393	534.142	497.310	481.608
61.5	577.578	568.333	521.816	486.010	470.603
62.0	564.224	555.273	509.636	474.711	459.890
62.5	551.017	542.360	497.603	463.559	449.178
63.0	537.957	529.593	485.864	452.700	438.613
63.5	525.044	516.826	473.978	441.841	428.047
64.0	512.131	503.913	462.238	430.982	417.629
64.5	499.217	491.146	450.646	420.270	407.210
65.0	486.597	478.527	439.053	409.704	397.085
65.5	473.831	465.907	427.607	399.139	386.959
66.0	461.211	453.434	416.308	388.720	376.834
66.5	448.444	440.961	404.862	378.155	366.709
67.0	435.678	428.781	393.563	367.443	356.437
67.5	423.058	416.455	382.410	357.024	346.312
68.0	410.585	404.128	371.258	346.605	336.333
68.5	398.112	391.949	359.959	336.333	326.355
69.0	385.785	379.622	348.953	326.061	316.376
69.5	373.459	367.589	337.801	315.789	306.691
70.0	360.986	355.557	326.942	305.664	296.860
70.5	348.660	343.670	316.083	295.686	287.321
71.0	336.480	331.638	305.224	285.854	277.930
71.5	324.300	319.751	294.659	276.022	268.832
72.0	312.414	307.865	284.533	266.484	259.881
72.5	300.528	296.273	274.261	257.239	250.929
73.0	288.789	284.827	263.989	247.994	242.125
73.5	277.049	273.528	253.864	238.896	233.467
74.0	265.604	262.228	243.886	229.945	224.809
74.5	254.158	251.223	234.201	221.141	216.298
75.0	242.859	240.364	224.516	212.483	207.787
75.5	231.853	229.505	214.977	203.972	199.570
76.0	220.847	218.940	205.586	195.607	191.499
76.5	210.135	208.521	196.341	187.243	183.575
77.0	199.570	198.249	187.243	179.026	175.504
77.5	189.004	188.124	178.292	171.102	167.726
78.0	178.732	178.145	169.634	163.031	159.802
78.5	168.607	168.460	160.976	155.253	152.172
79.0	158.775	158.922	152.759	147.476	144.835
79.5	149.090	149.530	144.541	139.992	137.498
80.0	139.552	140.432	136.617	132.508	130.307
80.5	130.160	131.628	128.693	125.171	123.264
81.0	121.209	122.970	120.916	118.128	116.367
81.5	112.551	114.606	113.285	111.084	109.616
82.0	103.894	106.388	105.801	104.040	102.866
82.5	95.529	98.171	98.611	97.290	96.410

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	87.458	90.393	91.274	90.687	89.806
83.5	79.534	82.763	84.230	84.083	83.496
84.0	71.904	75.572	77.480	77.627	77.333
84.5	64.567	68.529	70.730	71.317	71.023
85.0	57.523	61.632	64.126	65.154	64.860
85.5	50.773	55.028	57.816	59.137	58.990
86.0	44.169	48.425	51.653	53.121	53.121
86.5	37.860	42.262	45.637	47.398	47.398
87.0	31.696	36.099	39.767	41.822	41.822
87.5	25.680	30.229	33.897	36.245	36.245
88.0	19.810	24.506	28.321	30.816	30.963
88.5	13.941	18.930	22.745	25.827	25.973
89.0	8.071	12.767	16.875	19.957	19.223
89.5	3.962	7.631	10.712	12.620	11.886
90.0	3.522	5.576	6.897	7.337	6.016
90.5	3.962	8.218	11.152	11.886	11.739
91.0	8.071	10.125	12.913	15.408	15.555
91.5	14.087	13.500	14.821	16.582	16.729
92.0	20.984	18.196	17.609	18.930	18.930
92.5	28.028	23.332	20.544	21.571	21.571
93.0	35.071	29.055	23.919	24.359	24.212
93.5	42.262	34.778	28.175	27.294	27.147
94.0	49.452	40.501	33.017	30.376	30.082
94.5	56.643	46.517	38.300	33.751	33.164
95.0	63.833	52.827	44.023	37.713	36.392
95.5	70.877	59.431	49.892	42.115	40.207
96.0	78.067	66.328	55.615	46.958	44.463
96.5	85.111	73.371	61.192	52.240	49.012
97.0	92.301	80.562	66.474	57.816	54.295
97.5	99.491	87.605	71.757	63.539	59.724
98.0	106.682	94.796	77.186	69.116	65.300
98.5	113.872	101.839	82.469	74.545	70.877
99.0	121.062	109.030	87.752	79.828	76.306
99.5	128.253	116.220	93.328	85.111	81.735
100.0	135.443	123.410	98.904	90.247	86.871
100.5	142.780	130.747	104.627	95.529	92.154
101.0	149.971	138.085	110.497	100.812	97.437
101.5	157.454	145.422	116.367	106.241	102.720
102.0	164.938	152.905	122.677	111.524	108.149
102.5	172.716	160.536	128.986	116.954	113.579
103.0	180.493	168.313	135.296	122.530	118.861
103.5	188.564	176.237	141.900	128.253	124.437
104.0	196.781	184.308	148.797	133.976	130.160
104.5	204.852	192.526	155.694	139.992	136.030
105.0	213.070	200.890	162.884	146.009	142.047
105.5	221.434	209.401	170.221	152.172	148.063
106.0	230.092	218.059	177.852	158.482	154.373
106.5	239.043	227.010	185.776	165.085	160.683
107.0	248.288	236.255	193.993	171.688	167.286
107.5	257.679	245.647	202.504	178.585	173.890
108.0	267.511	255.332	211.162	185.776	180.787
108.5	277.636	265.310	220.260	193.260	187.830
109.0	288.055	275.582	229.505	200.890	195.167
109.5	298.621	286.001	239.190	208.814	202.798
110.0	309.773	296.860	249.168	217.032	210.575
110.5	321.072	308.159	259.587	225.690	218.646

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

111.0	332.958	319.605	270.446	234.641	227.010
111.5	344.991	331.491	281.745	244.179	235.815
112.0	357.758	343.964	293.485	254.011	245.206
112.5	370.818	356.731	305.664	264.430	254.745
113.0	384.318	370.084	318.431	275.142	264.870
113.5	398.259	383.731	331.638	286.294	275.142
114.0	412.786	397.818	345.285	298.034	286.294
114.5	427.607	412.346	359.519	310.360	297.740
115.0	443.015	427.460	374.193	323.127	309.920
115.5	458.863	443.015	389.601	336.480	322.393
116.0	475.005	459.010	405.449	350.567	335.600
116.5	491.733	475.592	421.884	365.388	349.247
117.0	509.196	492.320	438.906	380.650	363.774
117.5	527.098	509.783	456.369	396.644	378.889
118.0	545.588	527.539	474.418	413.226	394.443
118.5	564.518	546.028	493.054	430.248	410.585
119.0	583.888	564.958	511.984	447.857	427.460
119.5	603.551	584.328	531.647	466.347	444.923
120.0	623.361	604.285	551.898	485.277	462.972
120.5	643.758	624.682	572.588	504.940	481.608
121.0	664.596	645.666	593.866	525.337	500.978
121.5	686.020	667.090	615.584	546.468	521.229
122.0	707.885	689.102	637.889	568.039	542.066
122.5	730.336	711.260	660.634	590.491	563.784
123.0	753.228	733.858	683.672	613.383	585.942
123.5	776.413	756.750	707.151	636.715	608.687
124.0	799.746	780.082	730.923	660.634	632.019
124.5	823.518	803.414	754.989	685.287	656.085
125.0	847.290	827.186	779.495	710.379	681.031
125.5	870.916	851.105	804.148	736.059	706.271
126.0	894.394	875.171	828.947	762.033	731.804
126.5	918.020	899.237	853.747	788.446	757.924
127.0	942.086	923.596	878.986	815.153	784.778
127.5	966.298	947.955	904.079	842.154	811.778
128.0	990.364	972.608	929.172	869.155	839.072
128.5	1014.283	996.967	954.118	896.155	866.367
129.0	1037.615	1021.180	978.771	923.303	893.807
129.5	1061.240	1045.245	1003.424	950.303	921.688
130.0	1081.784	1068.431	1027.783	977.450	949.863
130.5	1101.154	1088.388	1051.849	1004.304	977.744
131.0	1123.459	1110.692	1073.273	1030.865	1005.772
131.5	1145.911	1132.704	1095.431	1055.958	1033.653
132.0	1167.922	1155.302	1115.828	1080.464	1058.452
132.5	1189.933	1177.460	1138.573	1105.410	1085.746
133.0	1211.651	1199.031	1161.172	1127.274	1112.600
133.5	1232.635	1220.896	1183.330	1151.193	1135.639
134.0	1253.032	1241.733	1205.341	1174.819	1161.612
134.5	1273.283	1262.571	1226.619	1198.004	1186.852
135.0	1292.213	1282.381	1247.896	1220.749	1211.211
135.5	1311.436	1302.044	1268.734	1242.614	1234.543
136.0	1330.072	1321.268	1288.984	1264.478	1257.581
136.5	1347.535	1340.197	1308.941	1285.316	1280.180
137.0	1364.850	1358.100	1329.045	1306.447	1301.898
137.5	1381.725	1376.296	1347.241	1326.697	1323.175
138.0	1398.601	1393.612	1366.171	1346.361	1343.426
138.5	1415.183	1410.927	1383.927	1365.290	1362.649

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1430.297	1427.656	1401.095	1384.073	1382.166
139.5	1445.558	1444.091	1418.264	1401.829	1400.362
140.0	1460.673	1459.205	1434.406	1420.025	1418.411
140.5	1474.760	1474.760	1450.401	1436.901	1435.433
141.0	1489.434	1489.434	1466.689	1453.629	1452.015
141.5	1502.641	1504.109	1482.097	1470.358	1468.890
142.0	1515.848	1518.783	1498.239	1485.032	1485.032
142.5	1529.055	1531.990	1511.446	1501.174	1499.706
143.0	1542.262	1545.196	1526.120	1515.848	1515.848
143.5	1554.001	1558.403	1540.794	1530.522	1530.522
144.0	1565.740	1570.143	1554.001	1545.196	1545.196
144.5	1577.480	1583.349	1565.740	1559.871	1559.871
145.0	1589.219	1595.089	1578.947	1573.077	1574.545
145.5	1600.958	1606.828	1590.686	1586.284	1589.219
146.0	1611.230	1618.568	1602.426	1599.491	1602.426
146.5	1622.970	1628.839	1614.165	1612.698	1617.100
147.0	1633.242	1639.111	1625.905	1624.437	1628.839
147.5	1642.046	1650.851	1636.177	1636.177	1642.046
148.0	1653.786	1661.123	1647.916	1647.916	1653.786
148.5	1664.058	1671.395	1658.188	1658.188	1665.525
149.0	1674.330	1681.667	1668.460	1668.460	1675.797
149.5	1683.134	1691.939	1678.732	1678.732	1686.069
150.0	1693.406	1700.743	1689.004	1687.536	1694.874
150.5	1702.211	1711.015	1699.276	1696.341	1703.678
151.0	1711.015	1719.820	1709.548	1706.613	1712.483
151.5	1721.287	1730.092	1718.352	1715.417	1719.820
152.0	1730.092	1738.896	1728.624	1724.222	1727.157
152.5	1738.896	1747.701	1738.896	1733.027	1735.961
153.0	1747.701	1756.505	1747.701	1741.831	1743.298
153.5	1756.505	1763.842	1756.505	1750.636	1750.636
154.0	1763.842	1772.647	1765.310	1759.440	1757.973
154.5	1772.647	1781.451	1774.114	1768.245	1766.777
155.0	1779.984	1788.789	1782.919	1777.049	1774.114
155.5	1787.321	1796.126	1791.723	1785.854	1782.919
156.0	1794.658	1803.463	1799.061	1794.658	1791.723
156.5	1801.995	1810.800	1807.865	1803.463	1800.528
157.0	1807.865	1818.137	1815.202	1812.267	1807.865
157.5	1815.202	1825.474	1822.539	1821.072	1816.670
158.0	1822.539	1832.811	1829.876	1828.409	1825.474
158.5	1829.876	1838.681	1837.214	1837.214	1832.811
159.0	1835.746	1846.018	1843.083	1844.551	1840.148
159.5	1841.616	1851.888	1850.420	1853.355	1848.953
160.0	1847.486	1857.757	1857.757	1860.692	1856.290
160.5	1853.355	1863.627	1863.627	1866.562	1863.627
161.0	1859.225	1869.497	1869.497	1873.899	1870.964
161.5	1865.095	1875.367	1875.367	1879.769	1876.834
162.0	1870.964	1881.236	1881.236	1885.639	1884.171
162.5	1876.834	1887.106	1887.106	1891.508	1890.041
163.0	1882.704	1891.508	1892.976	1897.378	1895.910
163.5	1888.573	1897.378	1897.378	1901.780	1900.313
164.0	1894.443	1903.248	1903.248	1906.182	1906.182
164.5	1898.845	1909.117	1907.650	1910.585	1910.585
165.0	1904.715	1913.520	1912.052	1914.987	1914.987
165.5	1909.117	1917.922	1914.987	1919.389	1919.389
166.0	1914.987	1923.792	1919.389	1922.324	1923.792
166.5	1919.389	1928.194	1922.324	1926.726	1926.726

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1923.792	1932.596	1926.726	1931.129	1932.596
167.5	1928.194	1936.998	1929.661	1934.063	1935.531
168.0	1932.596	1939.933	1934.063	1938.466	1938.466
168.5	1936.998	1944.335	1936.998	1941.401	1942.868
169.0	1939.933	1947.270	1939.933	1945.803	1947.270
169.5	1944.335	1951.673	1942.868	1948.738	1950.205
170.0	1947.270	1954.607	1945.803	1951.673	1954.607
170.5	1951.673	1957.542	1948.738	1954.607	1957.542
171.0	1954.607	1960.477	1950.205	1957.542	1960.477
171.5	1956.075	1961.945	1953.140	1960.477	1964.879
172.0	1960.477	1964.879	1956.075	1963.412	1967.814
172.5	1961.945	1967.814	1957.542	1966.347	1970.749
173.0	1964.879	1969.282	1960.477	1967.814	1973.684
173.5	1967.814	1972.216	1961.945	1969.282	1976.619
174.0	1969.282	1973.684	1963.412	1972.216	1978.086
174.5	1972.216	1975.151	1966.347	1973.684	1979.554
175.0	1973.684	1976.619	1967.814	1975.151	1981.021
175.5	1975.151	1978.086	1967.814	1976.619	1982.488
176.0	1978.086	1979.554	1970.749	1978.086	1983.956
176.5	1979.554	1981.021	1970.749	1978.086	1983.956
177.0	1979.554	1981.021	1972.216	1979.554	1983.956
177.5	1981.021	1982.488	1973.684	1979.554	1983.956
178.0	1982.488	1983.956	1973.684	1979.554	1985.423
178.5	1983.956	1983.956	1975.151	1981.021	1983.956
179.0	1983.956	1983.956	1975.151	1981.021	1983.956
179.5	1983.956	1983.956	1976.619	1981.021	1983.956
180.0	1981.021	1981.021	1981.021	1981.021	1981.021



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	702.24	N.A.	7.60
0-30	1442.73	N.A.	15.70
0-40	2258.58	N.A.	24.60
0-60	3635.68	N.A.	39.60
0-80	4314.62	N.A.	47.00
0-90	4386.14	N.A.	47.70
10-90	4200.98	N.A.	45.70
20-40	1556.34	N.A.	16.90
20-50	2312.95	N.A.	25.20
40-70	1815.63	N.A.	19.80
60-80	678.93	N.A.	7.40
70-80	240.41	N.A.	2.60
80-90	71.52	N.A.	0.80
90-110	238.56	N.A.	2.60
90-120	617.80	N.A.	6.70
90-130	1308.85	N.A.	14.20
90-150	3254.45	N.A.	35.40
90-180	4803.28	N.A.	52.30
110-180	4564.72	N.A.	49.70
0-180	9189.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	185.16
10-20	517.08
20-30	740.49
30-40	815.85
40-50	756.61
50-60	620.49
60-70	438.53
70-80	240.41
80-90	71.52
90-100	54.24
100-110	184.32
110-120	379.24
120-130	691.05
130-140	958.38
140-150	987.22
150-160	821.28
160-170	539.85
170-180	187.70

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30
4	75	64	56	50	68	59	53	47	50	45	41	42	38	35	34	32	29	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	15
10	47	36	28	24	44	33	27	22	29	24	20	25	20	18	21	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L8-835U-L8-835D-F-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

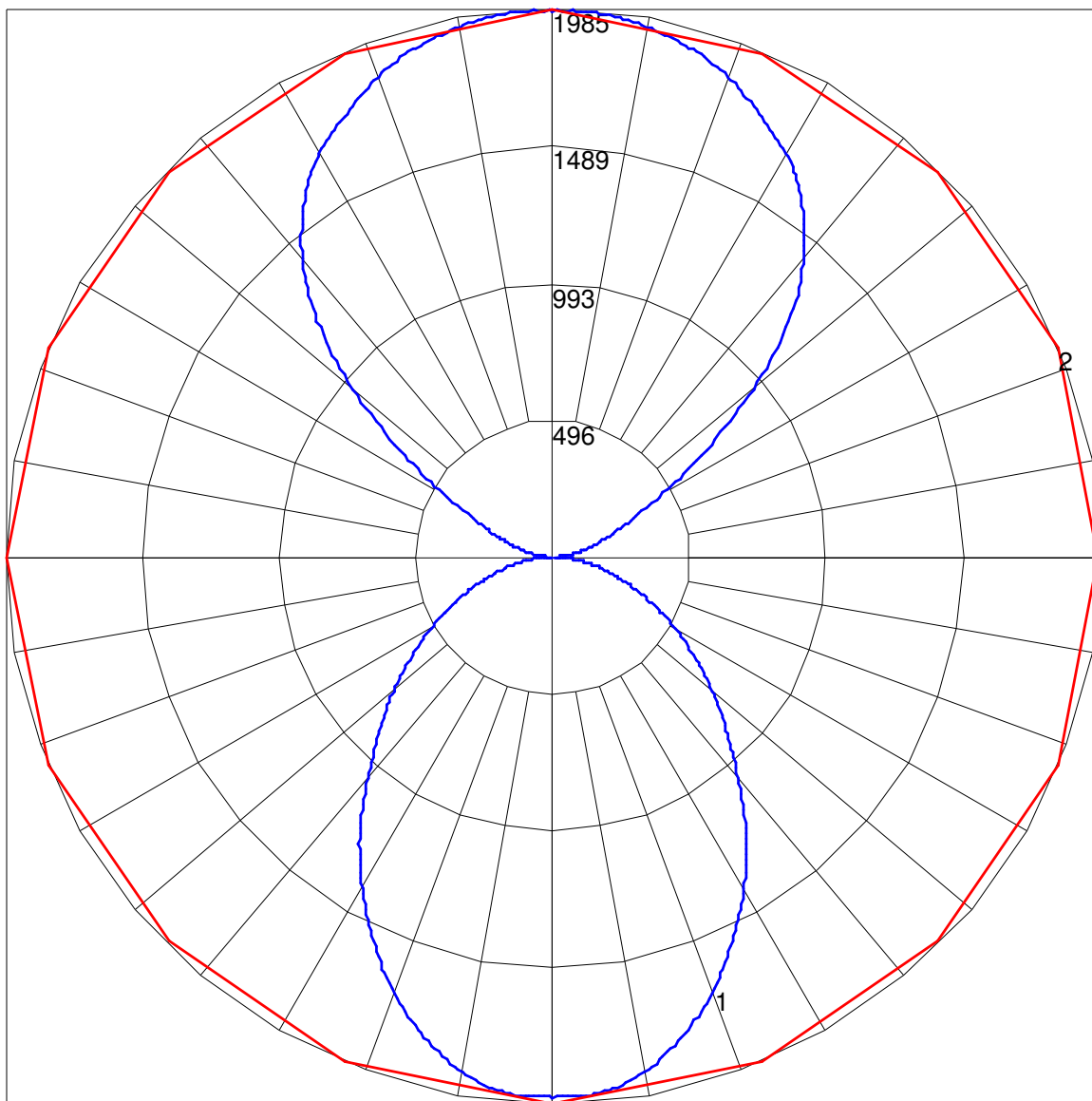
X=2H	Y=2H	12.3	13.1	13.3	14.1	15.4	13.5	14.3	14.4	15.3	16.6
	3H	13.4	14.1	14.4	15.1	16.5	15.0	15.7	16.0	16.7	18.0
	4H	13.7	14.4	14.7	15.4	16.7	15.5	16.2	16.5	17.2	18.5
	6H	13.8	14.5	14.8	15.5	16.8	15.9	16.5	16.9	17.6	18.9
	8H	13.8	14.4	14.8	15.4	16.8	16.0	16.6	17.0	17.7	19.0
	12H	13.8	14.4	14.8	15.4	16.7	16.1	16.7	17.1	17.7	19.1

### UGR Viewed Endwise

4H	2H	12.7	13.4	13.7	14.4	15.7	13.7	14.4	14.7	15.4	16.7
	3H	13.9	14.5	14.9	15.5	16.9	15.3	15.9	16.3	16.9	18.2
	4H	14.3	14.8	15.3	15.9	17.2	15.9	16.4	16.9	17.4	18.8
	6H	14.5	15.0	15.5	16.0	17.4	16.4	16.8	17.4	17.9	19.2
	8H	14.5	15.0	15.6	16.0	17.4	16.5	16.9	17.5	18.0	19.4
	12H	14.5	14.9	15.6	15.9	17.3	16.6	17.0	17.7	18.1	19.4
8H	4H	14.4	14.8	15.5	15.9	17.3	15.9	16.3	16.9	17.4	18.7
	6H	14.7	15.0	15.7	16.1	17.5	16.4	16.8	17.5	17.8	19.2
	8H	14.7	15.1	15.8	16.1	17.5	16.6	16.9	17.7	18.0	19.4
	12H	14.7	15.0	15.8	16.1	17.5	16.7	17.0	17.8	18.1	19.5
12H	4H	14.4	14.8	15.4	15.8	17.2	15.8	16.2	16.9	17.3	18.7
	6H	14.7	15.0	15.7	16.1	17.5	16.4	16.7	17.4	17.8	19.2
	8H	14.7	15.0	15.8	16.1	17.5	16.6	16.9	17.7	17.9	19.4

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1985.423 Located At Horizontal Angle = 90, Vertical Angle = 178  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (178) (Through Max. Cd.)