



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-00-L8-935U-L8-935D-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] 31 MARCH 2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2DU-8-00-L8-935U-L8-935D-F-F-AC/Dxx-XX-DIM-UNV  
 [LUMINAIRE] Formed White aluminum housing, lens enclosures  
 [LAMP] 144 White Downlight LEDs/144 White Uplight LEDs

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	107.2
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)	8.00 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	13313	5207	3884
55	11491	3627	2610
65	9746	2344	1642
75	7489	1255	877
85	4124	389	288

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	2247.407	2247.407	2247.407	2247.407	2247.407
<b>0.5</b>	2240.684	2260.855	2242.365	2244.046	2244.046
<b>1.0</b>	2240.684	2259.174	2242.365	2244.046	2244.046
<b>1.5</b>	2240.684	2259.174	2242.365	2244.046	2245.726
<b>2.0</b>	2239.003	2259.174	2240.684	2244.046	2245.726
<b>2.5</b>	2239.003	2257.493	2240.684	2245.726	2245.726
<b>3.0</b>	2237.322	2255.812	2239.003	2244.046	2244.046
<b>3.5</b>	2235.641	2254.131	2237.322	2244.046	2244.046
<b>4.0</b>	2232.279	2252.450	2235.641	2242.365	2242.365
<b>4.5</b>	2230.598	2250.769	2233.960	2240.684	2240.684
<b>5.0</b>	2228.917	2247.407	2230.598	2239.003	2237.322
<b>5.5</b>	2225.555	2245.726	2228.917	2235.641	2233.960
<b>6.0</b>	2222.193	2242.365	2225.555	2232.279	2230.598
<b>6.5</b>	2218.832	2239.003	2222.193	2227.236	2227.236
<b>7.0</b>	2215.470	2235.641	2218.832	2222.193	2222.193
<b>7.5</b>	2210.427	2232.279	2213.789	2217.151	2215.470
<b>8.0</b>	2207.065	2227.236	2210.427	2210.427	2208.746
<b>8.5</b>	2202.022	2222.193	2205.384	2203.703	2202.022
<b>9.0</b>	2196.979	2218.832	2200.341	2196.979	2195.298
<b>9.5</b>	2191.937	2213.789	2195.298	2190.256	2186.894
<b>10.0</b>	2186.894	2208.746	2188.575	2181.851	2176.808
<b>10.5</b>	2181.851	2203.703	2183.532	2175.127	2166.723
<b>11.0</b>	2176.808	2196.979	2175.127	2166.723	2158.318
<b>11.5</b>	2170.085	2190.256	2168.404	2156.637	2148.232
<b>12.0</b>	2163.361	2185.213	2159.999	2148.232	2136.466
<b>12.5</b>	2156.637	2178.489	2151.594	2138.147	2126.380
<b>13.0</b>	2149.913	2171.765	2143.190	2128.061	2114.614
<b>13.5</b>	2143.190	2163.361	2134.785	2117.976	2102.847
<b>14.0</b>	2134.785	2156.637	2124.699	2107.890	2092.762
<b>14.5</b>	2128.061	2148.232	2114.614	2096.123	2080.995
<b>15.0</b>	2119.657	2139.828	2104.528	2084.357	2067.548
<b>15.5</b>	2109.571	2131.423	2094.443	2072.590	2055.781
<b>16.0</b>	2101.166	2123.018	2084.357	2060.824	2042.334
<b>16.5</b>	2092.762	2112.933	2072.590	2047.376	2028.886
<b>17.0</b>	2084.357	2102.847	2060.824	2035.610	2017.120
<b>17.5</b>	2074.271	2094.443	2049.057	2022.162	2003.672
<b>18.0</b>	2064.186	2082.676	2037.291	2008.715	1990.225
<b>18.5</b>	2055.781	2072.590	2025.524	1996.948	1976.777
<b>19.0</b>	2045.695	2062.505	2012.077	1981.820	1961.649
<b>19.5</b>	2035.610	2050.738	1998.629	1968.373	1948.201
<b>20.0</b>	2023.843	2038.972	1985.182	1954.925	1933.073
<b>20.5</b>	2013.758	2028.886	1971.734	1939.797	1916.264
<b>21.0</b>	2003.672	2015.439	1958.287	1922.987	1902.816
<b>21.5</b>	1991.906	2003.672	1944.839	1907.859	1884.326
<b>22.0</b>	1980.139	1991.906	1931.392	1892.731	1869.197
<b>22.5</b>	1968.373	1978.458	1916.264	1875.921	1854.069
<b>23.0</b>	1956.606	1966.692	1902.816	1859.112	1835.579
<b>23.5</b>	1944.839	1953.244	1887.688	1842.303	1818.770
<b>24.0</b>	1931.392	1939.797	1872.559	1825.493	1800.279
<b>24.5</b>	1919.625	1926.349	1859.112	1808.684	1783.470
<b>25.0</b>	1904.497	1912.902	1842.303	1790.194	1764.980
<b>25.5</b>	1891.050	1899.454	1827.174	1773.384	1748.170
<b>26.0</b>	1877.602	1884.326	1812.046	1756.575	1731.361
<b>26.5</b>	1862.474	1869.197	1795.236	1739.766	1712.871

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27.0	1849.026	1854.069	1780.108	1721.275	1694.380
27.5	1833.898	1838.941	1763.299	1704.466	1677.235
28.0	1817.089	1823.812	1748.170	1685.976	1659.417
28.5	1801.960	1808.684	1729.680	1668.998	1642.272
29.0	1785.151	1791.875	1712.871	1651.517	1625.294
29.5	1770.022	1776.746	1696.061	1634.035	1607.140
30.0	1753.213	1759.937	1678.244	1617.058	1588.818
30.5	1738.085	1741.447	1660.594	1599.240	1572.009
31.0	1721.275	1726.318	1642.608	1581.254	1553.014
31.5	1702.785	1707.828	1624.117	1563.100	1534.860
32.0	1687.657	1689.338	1605.795	1544.441	1516.538
32.5	1669.335	1671.688	1587.137	1524.774	1498.384
33.0	1653.030	1652.861	1567.974	1505.780	1478.717
33.5	1635.380	1635.044	1549.148	1486.785	1459.554
34.0	1617.562	1616.217	1529.985	1467.455	1441.568
34.5	1600.248	1596.886	1510.654	1447.619	1422.574
35.0	1582.935	1578.060	1491.828	1427.784	1402.234
35.5	1565.621	1558.225	1472.665	1407.781	1381.559
36.0	1548.139	1539.567	1452.662	1388.283	1361.724
36.5	1530.321	1520.236	1433.500	1367.943	1341.385
37.0	1512.335	1501.409	1413.833	1347.940	1319.364
37.5	1493.173	1482.247	1394.670	1327.601	1297.848
38.0	1475.187	1463.084	1374.835	1306.925	1276.501
38.5	1456.192	1443.585	1355.672	1286.082	1255.825
39.0	1437.198	1424.591	1335.501	1266.079	1238.343
39.5	1417.867	1405.932	1316.002	1248.933	1219.349
40.0	1398.872	1387.610	1296.167	1229.434	1198.841
40.5	1379.374	1368.279	1276.669	1210.776	1178.670
41.0	1360.715	1349.285	1259.019	1190.605	1159.339
41.5	1341.889	1330.795	1243.050	1170.770	1140.513
42.0	1322.558	1311.632	1224.055	1151.775	1122.191
42.5	1303.395	1292.974	1206.238	1133.285	1104.541
43.0	1284.737	1274.315	1187.411	1115.299	1087.227
43.5	1266.919	1257.338	1169.089	1097.817	1070.418
44.0	1249.774	1242.041	1151.103	1080.840	1053.945
44.5	1236.662	1223.719	1133.285	1064.199	1037.808
45.0	1218.172	1205.733	1115.803	1047.894	1021.503
45.5	1200.018	1187.915	1098.658	1031.757	1005.534
46.0	1182.200	1169.593	1081.848	1015.956	989.565
46.5	1164.214	1151.271	1065.039	999.987	973.764
47.0	1146.564	1133.117	1048.566	984.186	957.796
47.5	1128.578	1114.963	1031.925	968.386	941.995
48.0	1110.929	1097.145	1015.452	952.417	926.194
48.5	1093.279	1079.327	998.810	936.616	910.561
49.0	1075.629	1061.677	982.337	920.479	895.097
49.5	1058.147	1044.027	965.696	904.846	879.632
50.0	1040.834	1026.546	949.223	889.214	864.336
50.5	1023.352	1009.064	932.582	873.581	849.375
51.0	1005.870	991.750	915.940	858.116	834.415
51.5	988.557	974.437	899.467	842.652	819.455
52.0	971.075	957.123	883.330	827.355	804.495
52.5	953.593	940.146	867.193	812.227	789.702
53.0	936.112	923.000	851.393	797.098	775.078
53.5	918.798	906.023	835.760	781.970	759.950
54.0	901.652	889.382	820.295	767.178	745.158
54.5	884.507	872.572	804.999	752.049	730.365

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55.0	867.530	856.099	789.702	737.089	715.573
55.5	850.552	839.794	774.574	722.465	700.949
56.0	833.743	823.489	759.446	707.673	686.157
56.5	817.102	807.520	744.317	693.385	671.869
57.0	800.628	791.383	729.189	678.929	657.749
57.5	784.323	775.246	714.060	664.809	643.965
58.0	768.354	759.109	699.100	650.689	630.182
58.5	752.386	743.140	684.140	636.906	616.902
59.0	737.089	727.508	669.516	623.122	603.455
59.5	721.961	712.043	654.723	609.506	590.344
60.0	706.832	696.579	640.267	596.059	577.400
60.5	691.872	681.282	625.979	582.779	564.457
61.0	676.744	665.986	611.860	569.668	551.682
61.5	661.615	651.025	597.740	556.725	539.075
62.0	646.319	636.065	583.788	543.782	526.804
62.5	631.190	621.273	570.004	531.007	514.534
63.0	616.230	606.649	556.557	518.568	502.431
63.5	601.438	592.025	542.941	506.129	490.328
64.0	586.646	577.232	529.494	493.690	478.394
64.5	571.853	562.608	516.215	481.419	466.459
65.0	557.397	548.152	502.935	469.316	454.860
65.5	542.773	533.696	489.824	457.214	443.262
66.0	528.317	519.408	476.881	445.279	431.664
66.5	513.693	505.120	463.769	433.176	420.065
67.0	499.069	491.169	450.826	420.906	408.299
67.5	484.613	477.049	438.051	408.971	396.700
68.0	470.325	462.929	425.276	397.036	385.270
68.5	456.037	448.977	412.333	385.270	373.839
69.0	441.917	434.857	399.726	373.503	362.409
69.5	427.797	421.074	386.951	361.737	351.315
70.0	413.510	407.290	374.512	350.138	340.053
70.5	399.390	393.675	362.073	338.708	329.127
71.0	385.438	379.891	349.634	327.446	318.369
71.5	371.486	366.275	337.531	316.183	307.947
72.0	357.871	352.660	325.933	305.257	297.693
72.5	344.255	339.380	314.166	294.668	287.440
73.0	330.808	326.269	302.400	284.078	277.354
73.5	317.360	313.326	290.801	273.656	267.436
74.0	304.249	300.383	279.371	263.402	257.519
74.5	291.138	287.776	268.277	253.317	247.770
75.0	278.194	275.337	257.183	243.399	238.020
75.5	265.587	262.898	246.257	233.650	228.607
76.0	252.980	250.795	235.499	224.068	219.362
76.5	240.710	238.861	224.909	214.487	210.285
77.0	228.607	227.094	214.487	205.074	201.040
77.5	216.504	215.496	204.233	195.997	192.131
78.0	204.738	204.065	194.316	186.752	183.054
78.5	193.139	192.971	184.398	177.843	174.313
79.0	181.877	182.045	174.985	168.934	165.908
79.5	170.783	171.287	165.572	160.361	157.503
80.0	159.857	160.865	156.495	151.788	149.267
80.5	149.099	150.780	147.418	143.384	141.198
81.0	138.845	140.862	138.509	135.315	133.298
81.5	128.928	131.281	129.768	127.247	125.566
82.0	119.010	121.868	121.195	119.178	117.833
82.5	109.429	112.454	112.959	111.446	110.437

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83.0	100.184	103.545	104.554	103.882	102.873
83.5	91.107	94.805	96.486	96.317	95.645
84.0	82.366	86.568	88.753	88.921	88.585
84.5	73.961	78.500	81.021	81.693	81.357
85.0	65.893	70.599	73.457	74.633	74.297
85.5	58.160	63.035	66.229	67.742	67.574
86.0	50.596	55.471	59.169	60.850	60.850
86.5	43.368	48.411	52.277	54.294	54.294
87.0	36.308	41.351	45.553	47.907	47.907
87.5	29.416	34.627	38.830	41.519	41.519
88.0	22.693	28.072	32.442	35.300	35.468
88.5	15.969	21.684	26.054	29.584	29.753
89.0	9.245	14.624	19.331	22.861	22.020
89.5	4.539	8.741	12.271	14.456	13.616
90.0	4.034	6.388	7.900	8.405	6.892
90.5	4.539	9.413	12.775	13.616	13.447
91.0	9.245	11.598	14.792	17.650	17.818
91.5	16.137	15.465	16.977	18.995	19.163
92.0	24.037	20.844	20.171	21.684	21.684
92.5	32.106	26.727	23.533	24.710	24.710
93.0	40.174	33.282	27.399	27.903	27.735
93.5	48.411	39.838	32.274	31.265	31.097
94.0	56.647	46.394	37.821	34.795	34.459
94.5	64.884	53.286	43.872	38.661	37.989
95.0	73.121	60.514	50.428	43.200	41.687
95.5	81.189	68.078	57.152	48.243	46.058
96.0	89.426	75.978	63.707	53.790	50.932
96.5	97.494	84.047	70.095	59.841	56.143
97.0	105.731	92.283	76.146	66.229	62.195
97.5	113.967	100.352	82.198	72.784	68.414
98.0	122.204	108.588	88.417	79.172	74.802
98.5	130.440	116.657	94.468	85.391	81.189
99.0	138.677	124.893	100.520	91.443	87.409
99.5	146.914	133.130	106.907	97.494	93.628
100.0	155.150	141.366	113.295	103.377	99.511
100.5	163.555	149.771	119.851	109.429	105.563
101.0	171.791	158.176	126.574	115.480	111.614
101.5	180.364	166.580	133.298	121.700	117.665
102.0	188.937	175.153	140.526	127.751	123.885
102.5	197.846	183.894	147.754	133.970	130.104
103.0	206.755	192.803	154.982	140.358	136.156
103.5	216.000	201.880	162.546	146.914	142.543
104.0	225.413	211.125	170.447	153.469	149.099
104.5	234.658	220.538	178.347	160.361	155.822
105.0	244.071	230.120	186.584	167.253	162.714
105.5	253.653	239.869	194.988	174.313	169.606
106.0	263.570	249.787	203.729	181.541	176.834
106.5	273.824	260.040	212.806	189.105	184.062
107.0	284.414	270.630	222.219	196.669	191.626
107.5	295.172	281.388	231.969	204.570	199.191
108.0	306.434	292.482	241.886	212.806	207.091
108.5	318.033	303.913	252.308	221.379	215.159
109.0	329.967	315.679	262.898	230.120	223.564
109.5	342.070	327.614	273.992	239.197	232.305
110.0	354.845	340.053	285.422	248.610	241.214
110.5	367.788	352.996	297.357	258.527	250.459

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111.0	381.404	366.107	309.796	268.781	260.040
111.5	395.187	379.723	322.739	279.707	270.126
112.0	409.811	394.011	336.187	290.970	280.884
112.5	424.772	408.635	350.138	302.904	291.810
113.0	440.236	423.931	364.762	315.175	303.408
113.5	456.205	439.564	379.891	327.950	315.175
114.0	472.846	455.701	395.524	341.397	327.950
114.5	489.824	472.342	411.829	355.517	341.061
115.0	507.474	489.656	428.638	370.141	355.013
115.5	525.628	507.474	446.288	385.438	369.301
116.0	544.118	525.796	464.442	401.575	384.429
116.5	563.281	544.790	483.268	418.552	400.062
117.0	583.284	563.953	502.767	436.034	416.703
117.5	603.791	583.956	522.770	454.356	434.017
118.0	624.971	604.295	543.446	473.351	451.835
118.5	646.655	625.475	564.793	492.850	470.325
119.0	668.843	647.159	586.478	513.021	489.656
119.5	691.368	669.348	609.002	534.201	509.659
120.0	714.060	692.208	632.199	555.885	530.334
120.5	737.425	715.573	655.900	578.409	551.682
121.0	761.295	739.611	680.274	601.774	573.871
121.5	785.836	764.152	705.151	625.979	597.067
122.0	810.882	789.366	730.702	650.689	620.937
122.5	836.600	814.748	756.756	676.407	645.814
123.0	862.823	840.635	783.147	702.630	671.197
123.5	889.382	866.857	810.042	729.357	697.251
124.0	916.108	893.584	837.273	756.756	723.978
124.5	943.340	920.311	864.840	784.996	751.545
125.0	970.571	947.542	892.912	813.740	780.121
125.5	997.634	974.941	921.151	843.156	809.033
126.0	1024.529	1002.508	949.559	872.909	838.281
126.5	1051.592	1030.076	977.967	903.165	868.202
127.0	1079.159	1057.979	1006.879	933.758	898.963
127.5	1106.894	1085.883	1035.623	964.687	929.892
128.0	1134.462	1114.122	1064.367	995.617	961.157
128.5	1161.861	1142.026	1092.943	1026.546	992.423
129.0	1188.588	1169.761	1121.182	1057.643	1023.856
129.5	1215.651	1197.329	1149.422	1088.572	1055.794
130.0	1239.184	1223.887	1177.325	1119.669	1088.068
130.5	1261.372	1246.748	1204.893	1150.431	1120.006
131.0	1286.922	1272.298	1229.434	1180.855	1152.111
131.5	1312.641	1297.512	1254.816	1209.599	1184.049
132.0	1337.855	1323.399	1278.181	1237.671	1212.457
132.5	1363.069	1348.781	1304.236	1266.247	1243.722
133.0	1387.946	1373.490	1330.122	1291.293	1274.483
133.5	1411.984	1398.536	1355.504	1318.692	1300.874
134.0	1435.349	1422.406	1380.718	1345.755	1330.627
134.5	1458.546	1446.275	1405.092	1372.314	1359.539
135.0	1480.230	1468.967	1429.465	1398.368	1387.442
135.5	1502.250	1491.492	1453.335	1423.414	1414.169
136.0	1523.598	1513.512	1476.532	1448.460	1440.560
136.5	1543.601	1535.196	1499.392	1472.329	1466.446
137.0	1563.436	1555.703	1522.421	1496.535	1491.324
137.5	1582.767	1576.547	1543.265	1519.732	1515.697
138.0	1602.097	1596.382	1564.949	1542.256	1538.894
138.5	1621.092	1616.217	1585.288	1563.940	1560.914

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-8-00-L8-935U-L8-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1638.405	1635.380	1604.955	1585.456	1583.271
139.5	1655.887	1654.206	1624.622	1605.795	1604.114
140.0	1673.201	1671.520	1643.112	1626.639	1624.790
140.5	1689.338	1689.338	1661.434	1645.970	1644.289
141.0	1706.147	1706.147	1680.093	1665.132	1663.283
141.5	1721.275	1722.956	1697.742	1684.295	1682.614
142.0	1736.404	1739.766	1716.233	1701.104	1701.104
142.5	1751.532	1754.894	1731.361	1719.594	1717.914
143.0	1766.661	1770.022	1748.170	1736.404	1736.404
143.5	1780.108	1785.151	1764.980	1753.213	1753.213
144.0	1793.556	1798.598	1780.108	1770.022	1770.022
144.5	1807.003	1813.727	1793.556	1786.832	1786.832
145.0	1820.450	1827.174	1808.684	1801.960	1803.641
145.5	1833.898	1840.622	1822.131	1817.089	1820.450
146.0	1845.664	1854.069	1835.579	1832.217	1835.579
146.5	1859.112	1865.836	1849.026	1847.345	1852.388
147.0	1870.878	1877.602	1862.474	1860.793	1865.836
147.5	1880.964	1891.050	1874.240	1874.240	1880.964
148.0	1894.411	1902.816	1887.688	1887.688	1894.411
148.5	1906.178	1914.583	1899.454	1899.454	1907.859
149.0	1917.945	1926.349	1911.221	1911.221	1919.625
149.5	1928.030	1938.116	1922.987	1922.987	1931.392
150.0	1939.797	1948.201	1934.754	1933.073	1941.478
150.5	1949.882	1959.968	1946.520	1943.159	1951.563
151.0	1959.968	1970.053	1958.287	1954.925	1961.649
151.5	1971.734	1981.820	1968.373	1965.011	1970.053
152.0	1981.820	1991.906	1980.139	1975.096	1978.458
152.5	1991.906	2001.991	1991.906	1985.182	1988.544
153.0	2001.991	2012.077	2001.991	1995.267	1996.948
153.5	2012.077	2020.481	2012.077	2005.353	2005.353
154.0	2020.481	2030.567	2022.162	2015.439	2013.758
154.5	2030.567	2040.653	2032.248	2025.524	2023.843
155.0	2038.972	2049.057	2042.334	2035.610	2032.248
155.5	2047.376	2057.462	2052.419	2045.695	2042.334
156.0	2055.781	2065.867	2060.824	2055.781	2052.419
156.5	2064.186	2074.271	2070.909	2065.867	2062.505
157.0	2070.909	2082.676	2079.314	2075.952	2070.909
157.5	2079.314	2091.081	2087.719	2086.038	2080.995
158.0	2087.719	2099.485	2096.123	2094.443	2091.081
158.5	2096.123	2106.209	2104.528	2104.528	2099.485
159.0	2102.847	2114.614	2111.252	2112.933	2107.890
159.5	2109.571	2121.337	2119.657	2123.018	2117.976
160.0	2116.295	2128.061	2128.061	2131.423	2126.380
160.5	2123.018	2134.785	2134.785	2138.147	2134.785
161.0	2129.742	2141.509	2141.509	2146.551	2143.190
161.5	2136.466	2148.232	2148.232	2153.275	2149.913
162.0	2143.190	2154.956	2154.956	2159.999	2158.318
162.5	2149.913	2161.680	2161.680	2166.723	2165.042
163.0	2156.637	2166.723	2168.404	2173.446	2171.765
163.5	2163.361	2173.446	2173.446	2178.489	2176.808
164.0	2170.085	2180.170	2180.170	2183.532	2183.532
164.5	2175.127	2186.894	2185.213	2188.575	2188.575
165.0	2181.851	2191.937	2190.256	2193.618	2193.618
165.5	2186.894	2196.979	2193.618	2198.660	2198.660
166.0	2193.618	2203.703	2198.660	2202.022	2203.703
166.5	2198.660	2208.746	2202.022	2207.065	2207.065

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-8-00-L8-935U-L8-935D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2203.703	2213.789	2207.065	2212.108	2213.789
167.5	2208.746	2218.832	2210.427	2215.470	2217.151
168.0	2213.789	2222.193	2215.470	2220.512	2220.512
168.5	2218.832	2227.236	2218.832	2223.874	2225.555
169.0	2222.193	2230.598	2222.193	2228.917	2230.598
169.5	2227.236	2235.641	2225.555	2232.279	2233.960
170.0	2230.598	2239.003	2228.917	2235.641	2239.003
170.5	2235.641	2242.365	2232.279	2239.003	2242.365
171.0	2239.003	2245.726	2233.960	2242.365	2245.726
171.5	2240.684	2247.407	2237.322	2245.726	2250.769
172.0	2245.726	2250.769	2240.684	2249.088	2254.131
172.5	2247.407	2254.131	2242.365	2252.450	2257.493
173.0	2250.769	2255.812	2245.726	2254.131	2260.855
173.5	2254.131	2259.174	2247.407	2255.812	2264.217
174.0	2255.812	2260.855	2249.088	2259.174	2265.898
174.5	2259.174	2262.536	2252.450	2260.855	2267.579
175.0	2260.855	2264.217	2254.131	2262.536	2269.260
175.5	2262.536	2265.898	2254.131	2264.217	2270.940
176.0	2265.898	2267.579	2257.493	2265.898	2272.621
176.5	2267.579	2269.260	2257.493	2265.898	2272.621
177.0	2267.579	2269.260	2259.174	2267.579	2272.621
177.5	2269.260	2270.940	2260.855	2267.579	2272.621
178.0	2270.940	2272.621	2260.855	2267.579	2274.302
178.5	2272.621	2272.621	2262.536	2269.260	2272.621
179.0	2272.621	2272.621	2262.536	2269.260	2272.621
179.5	2272.621	2272.621	2264.217	2269.260	2272.621
180.0	2269.260	2269.260	2269.260	2269.260	2269.260



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-8-00-L8-935U-L8-935D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	804.42	N.A.	7.60
0-30	1652.65	N.A.	15.70
0-40	2587.2	N.A.	24.60
0-60	4164.67	N.A.	39.60
0-80	4942.39	N.A.	47.00
0-90	5024.32	N.A.	47.70
10-90	4812.22	N.A.	45.70
20-40	1782.78	N.A.	16.90
20-50	2649.49	N.A.	25.20
40-70	2079.81	N.A.	19.80
60-80	777.72	N.A.	7.40
70-80	275.39	N.A.	2.60
80-90	81.93	N.A.	0.80
90-110	273.27	N.A.	2.60
90-120	707.69	N.A.	6.70
90-130	1499.29	N.A.	14.20
90-150	3727.98	N.A.	35.40
90-180	5502.16	N.A.	52.30
110-180	5228.89	N.A.	49.70
0-180	10526.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	212.10
10-20	592.32
20-30	848.23
30-40	934.55
40-50	866.70
50-60	710.77
60-70	502.33
70-80	275.39
80-90	81.93
90-100	62.13
100-110	211.14
110-120	434.42
120-130	791.60
130-140	1097.82
140-150	1130.87
150-160	940.78
160-170	618.40
170-180	215.01

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-00-L8-935U-L8-935D-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-8-00-L8-935U-L8-935D-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

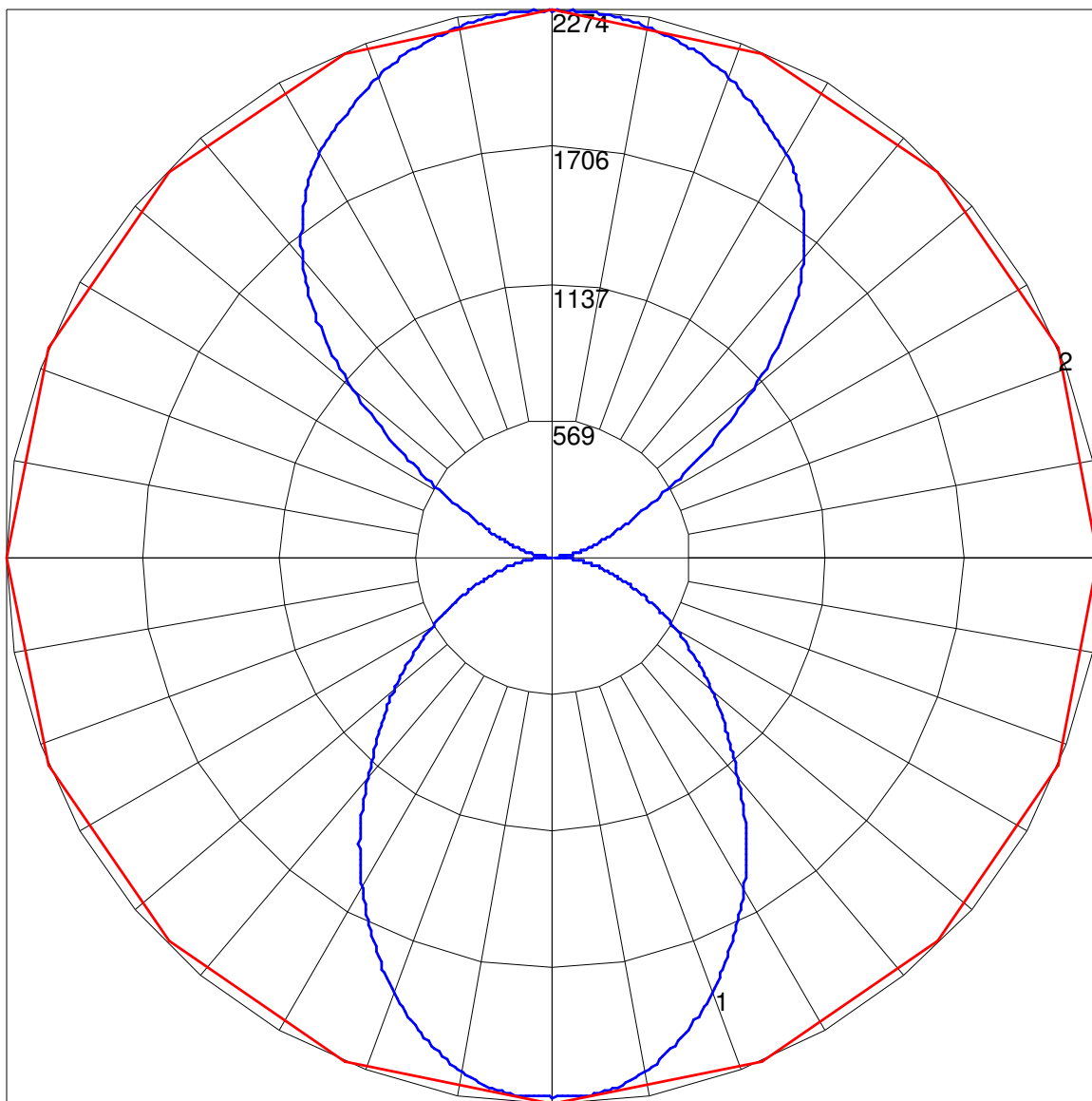
X=2H	Y=2H	11.7	12.5	12.6	13.5	14.8	12.9	13.7	13.8	14.7	16.0
	3H	12.8	13.5	13.8	14.5	15.8	14.4	15.1	15.4	16.1	17.4
	4H	13.0	13.7	14.0	14.7	16.1	14.9	15.6	15.9	16.6	18.0
	6H	13.2	13.8	14.2	14.8	16.2	15.3	16.0	16.3	17.0	18.3
	8H	13.2	13.8	14.2	14.8	16.1	15.4	16.1	16.5	17.1	18.4
	12H	13.1	13.7	14.2	14.7	16.1	15.5	16.1	16.6	17.1	18.5

### UGR Viewed Endwise

4H	2H	12.0	12.7	13.0	13.7	15.1	13.0	13.7	14.1	14.8	16.1
	3H	13.3	13.9	14.3	14.9	16.2	14.7	15.3	15.7	16.3	17.6
	4H	13.7	14.2	14.7	15.2	16.6	15.3	15.8	16.3	16.8	18.2
	6H	13.9	14.3	14.9	15.4	16.7	15.8	16.2	16.8	17.3	18.6
	8H	13.9	14.3	14.9	15.4	16.7	15.9	16.4	17.0	17.4	18.8
	12H	13.9	14.3	14.9	15.3	16.7	16.0	16.4	17.1	17.5	18.9
8H	4H	13.8	14.2	14.8	15.2	16.6	15.3	15.7	16.3	16.8	18.1
	6H	14.0	14.4	15.1	15.5	16.9	15.8	16.2	16.9	17.3	18.6
	8H	14.1	14.4	15.2	15.5	16.9	16.0	16.3	17.1	17.4	18.8
	12H	14.1	14.4	15.2	15.4	16.9	16.2	16.4	17.2	17.5	18.9
12H	4H	13.8	14.1	14.8	15.2	16.6	15.3	15.6	16.3	16.7	18.1
	6H	14.0	14.4	15.1	15.4	16.8	15.8	16.1	16.9	17.2	18.6
	8H	14.1	14.4	15.2	15.4	16.9	16.0	16.3	17.1	17.3	18.8

Maximum UGR = 18.9

POLAR GRAPH



Maximum Candela = 2274.302 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.)