



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13012869.08
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 19 FEB 2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV
[LUMINAIRE] 2 INCH WIDE, 96 INCH LONG, DIRECT/INDIRECT LED
[MORE] W/FLAT FROSTED LENS UP & DOWN
[LAMP] LED
[LAMPCAT] HLMX 80 CRI 3500K CCT UP & DOWN
[BALLAST] (2) 0-10V DIMMING DRIVERS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	74.9
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	12220	4779	3565
55	10548	3329	2396
65	8946	2151	1507
75	6874	1152	805
85	3785	357	265

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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	2062.857	2062.857	2062.857	2062.857	2062.857
0.5	2056.686	2075.200	2058.229	2059.771	2059.771
1.0	2056.686	2073.658	2058.229	2059.771	2059.771
1.5	2056.686	2073.658	2058.229	2059.771	2061.314
2.0	2055.143	2073.658	2056.686	2059.771	2061.314
2.5	2055.143	2072.115	2056.686	2061.314	2061.314
3.0	2053.600	2070.572	2055.143	2059.771	2059.771
3.5	2052.057	2069.029	2053.600	2059.771	2059.771
4.0	2048.971	2067.486	2052.057	2058.229	2058.229
4.5	2047.428	2065.943	2050.514	2056.686	2056.686
5.0	2045.885	2062.857	2047.428	2055.143	2053.600
5.5	2042.800	2061.314	2045.885	2052.057	2050.514
6.0	2039.714	2058.229	2042.800	2048.971	2047.428
6.5	2036.628	2055.143	2039.714	2044.342	2044.342
7.0	2033.542	2052.057	2036.628	2039.714	2039.714
7.5	2028.913	2048.971	2031.999	2035.085	2033.542
8.0	2025.828	2044.342	2028.913	2028.913	2027.371
8.5	2021.199	2039.714	2024.285	2022.742	2021.199
9.0	2016.570	2036.628	2019.656	2016.570	2015.027
9.5	2011.942	2031.999	2015.027	2010.399	2007.313
10.0	2007.313	2027.371	2008.856	2002.684	1998.055
10.5	2002.684	2022.742	2004.227	1996.513	1988.798
11.0	1998.055	2016.570	1996.513	1988.798	1981.084
11.5	1991.884	2010.399	1990.341	1979.541	1971.826
12.0	1985.712	2005.770	1982.626	1971.826	1961.026
12.5	1979.541	1999.598	1974.912	1962.569	1951.768
13.0	1973.369	1993.427	1967.197	1953.311	1940.968
13.5	1967.197	1985.712	1959.483	1944.054	1930.168
14.0	1959.483	1979.541	1950.226	1934.797	1920.910
14.5	1953.311	1971.826	1940.968	1923.996	1910.110
15.0	1945.597	1964.112	1931.711	1913.196	1897.767
15.5	1936.339	1956.397	1922.453	1902.396	1886.967
16.0	1928.625	1948.683	1913.196	1891.595	1874.623
16.5	1920.910	1939.425	1902.396	1879.252	1862.280
17.0	1913.196	1930.168	1891.595	1868.452	1851.480
17.5	1903.939	1922.453	1880.795	1856.109	1839.137
18.0	1894.681	1911.653	1869.995	1843.765	1826.794
18.5	1886.967	1902.396	1859.194	1832.965	1814.450
19.0	1877.709	1893.138	1846.851	1819.079	1800.564
19.5	1868.452	1882.338	1834.508	1806.736	1788.221
20.0	1857.652	1871.538	1822.165	1794.393	1774.335
20.5	1848.394	1862.280	1809.822	1780.507	1758.906
21.0	1839.137	1849.937	1797.478	1765.078	1746.563
21.5	1828.336	1839.137	1785.135	1751.191	1729.591
22.0	1817.536	1828.336	1772.792	1737.305	1715.705
22.5	1806.736	1815.993	1758.906	1721.876	1701.819
23.0	1795.936	1805.193	1746.563	1706.447	1684.847
23.5	1785.135	1792.850	1732.677	1691.018	1669.418
24.0	1772.792	1780.507	1718.791	1675.589	1652.446
24.5	1761.992	1768.163	1706.447	1660.160	1637.017
25.0	1748.106	1755.820	1691.018	1643.188	1620.045
25.5	1735.762	1743.477	1677.132	1627.759	1604.616
26.0	1723.419	1729.591	1663.246	1612.330	1589.187
26.5	1709.533	1715.705	1647.817	1596.901	1572.215

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27.0	1697.190	1701.819	1633.931	1579.930	1555.243
27.5	1683.304	1687.933	1618.502	1564.501	1539.506
28.0	1667.875	1674.046	1604.616	1547.529	1523.151
28.5	1653.989	1660.160	1587.644	1531.945	1507.413
29.0	1638.560	1644.731	1572.215	1515.899	1491.830
29.5	1624.674	1630.845	1556.786	1499.853	1475.167
30.0	1609.245	1615.416	1540.431	1484.270	1458.349
30.5	1595.359	1598.444	1524.231	1467.915	1442.920
31.0	1579.930	1584.558	1507.722	1451.406	1425.485
31.5	1562.958	1567.586	1490.750	1434.743	1408.822
32.0	1549.072	1550.614	1473.932	1417.616	1392.004
32.5	1532.254	1534.414	1456.806	1399.565	1375.341
33.0	1517.288	1517.134	1439.217	1382.130	1357.289
33.5	1501.087	1500.779	1421.937	1364.695	1339.700
34.0	1484.733	1483.498	1404.348	1346.952	1323.191
34.5	1468.841	1465.755	1386.604	1328.745	1305.756
35.0	1452.949	1448.474	1369.324	1310.539	1287.087
35.5	1437.057	1430.268	1351.735	1292.179	1268.109
36.0	1421.011	1413.142	1333.374	1274.281	1249.903
36.5	1404.656	1395.399	1315.785	1255.612	1231.234
37.0	1388.147	1378.118	1297.733	1237.251	1211.022
37.5	1370.558	1360.529	1280.144	1218.582	1191.273
38.0	1354.049	1342.940	1261.938	1199.605	1171.678
38.5	1336.614	1325.042	1244.349	1180.473	1152.701
39.0	1319.179	1307.608	1225.834	1162.112	1136.654
39.5	1301.436	1290.482	1207.936	1146.375	1119.220
40.0	1284.001	1273.664	1189.730	1128.477	1100.396
40.5	1266.104	1255.921	1171.833	1111.351	1081.881
41.0	1248.978	1238.486	1155.632	1092.836	1064.138
41.5	1231.697	1221.514	1140.975	1074.630	1046.858
42.0	1213.954	1203.925	1123.540	1057.195	1030.040
42.5	1196.365	1186.799	1107.185	1040.223	1013.840
43.0	1179.238	1169.672	1089.905	1023.714	997.948
43.5	1162.884	1154.089	1073.087	1007.668	982.519
44.0	1147.146	1140.049	1056.578	992.085	967.398
44.5	1135.112	1123.231	1040.223	976.810	952.586
45.0	1118.140	1106.722	1024.177	961.844	937.620
45.5	1101.476	1090.367	1008.439	947.032	922.963
46.0	1085.122	1073.550	993.010	932.529	908.305
46.5	1068.613	1056.732	977.581	917.871	893.802
47.0	1052.412	1040.069	962.461	903.368	879.144
47.5	1035.903	1023.406	947.186	888.865	864.641
48.0	1019.703	1007.051	932.066	874.207	850.138
48.5	1003.502	990.696	916.791	859.704	835.789
49.0	987.302	974.496	901.671	844.892	821.594
49.5	971.256	958.295	886.396	830.543	807.400
50.0	955.364	942.249	871.276	816.194	793.359
50.5	939.317	926.203	856.001	801.845	779.627
51.0	923.271	910.311	840.726	787.650	765.896
51.5	907.379	894.419	825.606	773.456	752.164
52.0	891.333	878.527	810.794	759.415	738.432
52.5	875.287	862.944	795.982	745.529	724.854
53.0	859.241	847.206	781.479	731.643	711.431
53.5	843.349	831.623	767.130	717.757	697.545
54.0	827.612	816.348	752.935	704.180	683.968
54.5	811.874	800.919	738.895	690.293	670.390

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55.0	796.291	785.799	724.854	676.562	656.813
55.5	780.707	770.833	710.968	663.138	643.389
56.0	765.278	755.867	697.082	649.561	629.812
56.5	750.004	741.209	683.196	636.446	616.697
57.0	734.883	726.397	669.310	623.177	603.737
57.5	719.917	711.585	655.424	610.217	591.085
58.0	705.260	696.774	641.692	597.257	578.433
58.5	690.602	682.116	627.960	584.605	566.244
59.0	676.562	667.767	614.537	571.953	553.901
59.5	662.676	653.572	600.960	559.456	541.866
60.0	648.789	639.378	587.691	547.112	529.986
60.5	635.058	625.337	574.576	534.923	518.106
61.0	621.172	611.297	561.616	522.889	506.380
61.5	607.285	597.565	548.655	511.008	494.808
62.0	593.245	583.833	535.849	499.128	483.545
62.5	579.359	570.256	523.197	487.402	472.282
63.0	565.627	556.833	510.854	475.985	461.173
63.5	552.050	543.409	498.357	464.567	450.064
64.0	538.472	529.832	486.013	453.150	439.109
64.5	524.895	516.409	473.825	441.887	428.155
65.0	511.626	503.140	461.636	430.778	417.509
65.5	498.202	489.871	449.601	419.669	406.863
66.0	484.933	476.756	437.721	408.714	396.217
66.5	471.510	463.641	425.686	397.605	385.571
67.0	458.087	450.835	413.806	386.342	374.770
67.5	444.818	437.875	402.080	375.388	364.124
68.0	431.703	424.915	390.354	364.433	353.633
68.5	418.589	412.109	378.473	353.633	343.141
69.0	405.628	399.148	366.902	342.832	332.649
69.5	392.668	386.496	355.176	332.032	322.466
70.0	379.553	373.845	343.758	321.386	312.129
70.5	366.593	361.347	332.341	310.894	302.100
71.0	353.787	348.695	320.923	300.557	292.225
71.5	340.981	336.198	309.814	290.219	282.659
72.0	328.483	323.700	299.168	280.191	273.248
72.5	315.986	311.512	288.368	270.470	263.836
73.0	303.643	299.477	277.568	260.750	254.578
73.5	291.300	287.597	266.922	251.184	245.475
74.0	279.265	275.716	256.430	241.772	236.372
74.5	267.230	264.144	246.247	232.515	227.423
75.0	255.350	252.727	236.064	223.412	218.475
75.5	243.778	241.310	226.035	214.463	209.834
76.0	232.206	230.201	216.160	205.669	201.348
76.5	220.943	219.246	206.440	196.874	193.017
77.0	209.834	208.446	196.874	188.234	184.531
77.5	198.726	197.800	187.462	179.902	176.353
78.0	187.925	187.308	178.359	171.416	168.022
78.5	177.279	177.125	169.256	163.239	159.999
79.0	166.942	167.096	160.616	155.061	152.284
79.5	156.759	157.222	151.976	147.193	144.570
80.0	146.730	147.656	143.644	139.324	137.010
80.5	136.855	138.398	135.312	131.609	129.604
81.0	127.444	129.295	127.135	124.203	122.352
81.5	118.340	120.500	119.112	116.798	115.255
82.0	109.237	111.860	111.243	109.392	108.157
82.5	100.443	103.220	103.683	102.294	101.369

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83.0	91.957	95.043	95.968	95.351	94.425
83.5	83.625	87.020	88.562	88.408	87.791
84.0	75.602	79.459	81.465	81.619	81.311
84.5	67.888	72.053	74.368	74.985	74.676
85.0	60.482	64.802	67.425	68.505	68.196
85.5	53.384	57.859	60.790	62.179	62.025
86.0	46.441	50.916	54.310	55.853	55.853
86.5	39.807	44.436	47.984	49.836	49.836
87.0	33.327	37.955	41.813	43.973	43.973
87.5	27.001	31.784	35.641	38.110	38.110
88.0	20.829	25.766	29.778	32.401	32.555
88.5	14.658	19.903	23.915	27.155	27.309
89.0	8.486	13.423	17.743	20.983	20.212
89.5	4.166	8.023	11.263	13.269	12.497
90.0	3.703	5.863	7.252	7.714	6.326
90.5	4.166	8.640	11.726	12.497	12.343
91.0	8.486	10.646	13.578	16.200	16.355
91.5	14.812	14.195	15.583	17.435	17.589
92.0	22.063	19.132	18.515	19.903	19.903
92.5	29.469	24.532	21.601	22.681	22.681
93.0	36.875	30.549	25.149	25.612	25.458
93.5	44.436	36.567	29.624	28.698	28.544
94.0	51.996	42.584	34.715	31.938	31.629
94.5	59.556	48.910	40.270	35.487	34.870
95.0	67.116	55.544	46.287	39.653	38.264
95.5	74.522	62.487	52.459	44.281	42.275
96.0	82.082	69.739	58.476	49.373	46.750
96.5	89.488	77.145	64.339	54.927	51.533
97.0	97.048	84.705	69.893	60.790	57.087
97.5	104.609	92.111	75.448	66.808	62.796
98.0	112.169	99.671	81.157	72.671	68.659
98.5	119.729	107.077	86.711	78.379	74.522
99.0	127.289	114.637	92.265	83.934	80.231
99.5	134.849	122.198	98.128	89.488	85.940
100.0	142.410	129.758	103.991	94.888	91.340
100.5	150.124	137.472	110.009	100.443	96.894
101.0	157.684	145.187	116.180	105.997	102.449
101.5	165.553	152.901	122.352	111.706	108.003
102.0	173.422	160.770	128.986	117.260	113.712
102.5	181.599	168.793	135.621	122.969	119.420
103.0	189.777	176.971	142.255	128.832	124.975
103.5	198.263	185.302	149.198	134.849	130.838
104.0	206.903	193.788	156.450	140.867	136.855
104.5	215.389	202.428	163.702	147.193	143.027
105.0	224.029	211.223	171.262	153.519	149.353
105.5	232.824	220.172	178.976	159.999	155.679
106.0	241.927	229.275	186.999	166.633	162.313
106.5	251.338	238.687	195.331	173.576	168.948
107.0	261.059	248.407	203.971	180.519	175.891
107.5	270.933	258.281	212.920	187.771	182.834
108.0	281.271	268.465	222.023	195.331	190.085
108.5	291.917	278.956	231.589	203.200	197.491
109.0	302.871	289.757	241.310	211.223	205.206
109.5	313.980	300.711	251.493	219.555	213.229
110.0	325.706	312.129	261.984	228.195	221.406
110.5	337.587	324.009	272.939	237.298	229.892

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111.0	350.084	336.044	284.356	246.710	238.687
111.5	362.736	348.541	296.237	256.739	247.944
112.0	376.159	361.656	308.580	267.076	257.819
112.5	389.891	375.079	321.386	278.031	267.847
113.0	404.086	389.119	334.809	289.294	278.493
113.5	418.743	403.468	348.695	301.020	289.294
114.0	434.018	418.280	363.044	313.363	301.020
114.5	449.601	433.555	378.010	326.323	313.054
115.0	465.801	449.447	393.439	339.747	325.860
115.5	482.465	465.801	409.640	353.787	338.975
116.0	499.437	482.619	426.303	368.599	352.861
116.5	517.026	500.054	443.584	384.182	367.210
117.0	535.386	517.643	461.481	400.228	382.485
117.5	554.210	536.003	479.842	417.046	398.377
118.0	573.650	554.673	498.820	434.481	414.732
118.5	593.554	574.113	518.414	452.378	431.703
119.0	613.920	594.016	538.318	470.893	449.447
119.5	634.595	614.383	558.993	490.334	467.807
120.0	655.424	635.366	580.285	510.237	486.785
120.5	676.870	656.813	602.040	530.912	506.380
121.0	698.779	678.876	624.412	552.358	526.746
121.5	721.306	701.402	647.247	574.576	548.038
122.0	744.295	724.546	670.699	597.257	569.947
122.5	767.901	747.844	694.614	620.863	592.782
123.0	791.971	771.604	718.837	644.932	616.080
123.5	816.348	795.674	743.523	669.464	639.995
124.0	840.880	820.206	768.518	694.614	664.527
124.5	865.875	844.738	793.822	720.534	689.831
125.0	890.870	869.733	819.588	746.918	716.060
125.5	915.711	894.882	845.509	773.919	742.598
126.0	940.398	920.186	871.584	801.228	769.444
126.5	965.238	945.489	897.659	829.000	796.908
127.0	990.542	971.101	924.197	857.081	825.143
127.5	1016.000	996.713	950.581	885.470	853.532
128.0	1041.303	1022.634	976.964	913.860	882.230
128.5	1066.452	1048.246	1003.194	942.249	910.928
129.0	1090.985	1073.704	1029.114	970.793	939.780
129.5	1115.825	1099.008	1055.035	999.182	969.095
130.0	1137.426	1123.385	1080.647	1027.726	998.719
130.5	1157.792	1144.369	1105.951	1055.961	1028.034
131.0	1181.244	1167.821	1128.477	1083.887	1057.504
131.5	1204.851	1190.964	1151.775	1110.271	1086.819
132.0	1227.994	1214.725	1173.221	1136.037	1112.894
132.5	1251.138	1238.023	1197.136	1162.267	1141.592
133.0	1273.973	1260.704	1220.897	1185.256	1169.827
133.5	1296.036	1283.693	1244.195	1210.405	1194.050
134.0	1317.482	1305.602	1267.338	1235.246	1221.360
134.5	1338.774	1327.511	1289.710	1259.624	1247.897
135.0	1358.678	1348.340	1312.082	1283.538	1273.510
135.5	1378.890	1369.015	1333.991	1306.528	1298.042
136.0	1398.485	1389.227	1355.283	1329.517	1322.265
136.5	1416.845	1409.131	1376.267	1351.426	1346.026
137.0	1435.051	1427.954	1397.404	1373.644	1368.861
137.5	1452.795	1447.086	1416.536	1394.936	1391.233
138.0	1470.538	1465.292	1436.440	1415.611	1412.525
138.5	1487.973	1483.498	1455.109	1435.514	1432.737

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1503.865	1501.087	1473.161	1455.263	1453.257
139.5	1519.911	1518.368	1491.213	1473.932	1472.389
140.0	1535.803	1534.260	1508.185	1493.064	1491.367
140.5	1550.614	1550.614	1525.002	1510.808	1509.265
141.0	1566.043	1566.043	1542.129	1528.397	1526.700
141.5	1579.930	1581.472	1558.329	1545.986	1544.443
142.0	1593.816	1596.901	1575.301	1561.415	1561.415
142.5	1607.702	1610.788	1589.187	1578.387	1576.844
143.0	1621.588	1624.674	1604.616	1593.816	1593.816
143.5	1633.931	1638.560	1620.045	1609.245	1609.245
144.0	1646.274	1650.903	1633.931	1624.674	1624.674
144.5	1658.617	1664.789	1646.274	1640.103	1640.103
145.0	1670.961	1677.132	1660.160	1653.989	1655.532
145.5	1683.304	1689.475	1672.504	1667.875	1670.961
146.0	1694.104	1701.819	1684.847	1681.761	1684.847
146.5	1706.447	1712.619	1697.190	1695.647	1700.276
147.0	1717.248	1723.419	1709.533	1707.990	1712.619
147.5	1726.505	1735.762	1720.333	1720.333	1726.505
148.0	1738.848	1746.563	1732.677	1732.677	1738.848
148.5	1749.649	1757.363	1743.477	1743.477	1751.191
149.0	1760.449	1768.163	1754.277	1754.277	1761.992
149.5	1769.706	1778.964	1765.078	1765.078	1772.792
150.0	1780.507	1788.221	1775.878	1774.335	1782.049
150.5	1789.764	1799.021	1786.678	1783.592	1791.307
151.0	1799.021	1808.279	1797.478	1794.393	1800.564
151.5	1809.822	1819.079	1806.736	1803.650	1808.279
152.0	1819.079	1828.336	1817.536	1812.907	1815.993
152.5	1828.336	1837.594	1828.336	1822.165	1825.251
153.0	1837.594	1846.851	1837.594	1831.422	1832.965
153.5	1846.851	1854.566	1846.851	1840.680	1840.680
154.0	1854.566	1863.823	1856.109	1849.937	1848.394
154.5	1863.823	1873.081	1865.366	1859.194	1857.652
155.0	1871.538	1880.795	1874.623	1868.452	1865.366
155.5	1879.252	1888.510	1883.881	1877.709	1874.623
156.0	1886.967	1896.224	1891.595	1886.967	1883.881
156.5	1894.681	1903.939	1900.853	1896.224	1893.138
157.0	1900.853	1911.653	1908.567	1905.481	1900.853
157.5	1908.567	1919.368	1916.282	1914.739	1910.110
158.0	1916.282	1927.082	1923.996	1922.453	1919.368
158.5	1923.996	1933.254	1931.711	1931.711	1927.082
159.0	1930.168	1940.968	1937.882	1939.425	1934.797
159.5	1936.339	1947.140	1945.597	1948.683	1944.054
160.0	1942.511	1953.311	1953.311	1956.397	1951.768
160.5	1948.683	1959.483	1959.483	1962.569	1959.483
161.0	1954.854	1965.655	1965.655	1970.283	1967.197
161.5	1961.026	1971.826	1971.826	1976.455	1973.369
162.0	1967.197	1977.998	1977.998	1982.626	1981.084
162.5	1973.369	1984.169	1984.169	1988.798	1987.255
163.0	1979.541	1988.798	1990.341	1994.970	1993.427
163.5	1985.712	1994.970	1994.970	1999.598	1998.055
164.0	1991.884	2001.141	2001.141	2004.227	2004.227
164.5	1996.513	2007.313	2005.770	2008.856	2008.856
165.0	2002.684	2011.942	2010.399	2013.484	2013.484
165.5	2007.313	2016.570	2013.484	2018.113	2018.113
166.0	2013.484	2022.742	2018.113	2021.199	2022.742
166.5	2018.113	2027.371	2021.199	2025.828	2025.828

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2022.742	2031.999	2025.828	2030.456	2031.999
167.5	2027.371	2036.628	2028.913	2033.542	2035.085
168.0	2031.999	2039.714	2033.542	2038.171	2038.171
168.5	2036.628	2044.342	2036.628	2041.257	2042.800
169.0	2039.714	2047.428	2039.714	2045.885	2047.428
169.5	2044.342	2052.057	2042.800	2048.971	2050.514
170.0	2047.428	2055.143	2045.885	2052.057	2055.143
170.5	2052.057	2058.229	2048.971	2055.143	2058.229
171.0	2055.143	2061.314	2050.514	2058.229	2061.314
171.5	2056.686	2062.857	2053.600	2061.314	2065.943
172.0	2061.314	2065.943	2056.686	2064.400	2069.029
172.5	2062.857	2069.029	2058.229	2067.486	2072.115
173.0	2065.943	2070.572	2061.314	2069.029	2075.200
173.5	2069.029	2073.658	2062.857	2070.572	2078.286
174.0	2070.572	2075.200	2064.400	2073.658	2079.829
174.5	2073.658	2076.743	2067.486	2075.200	2081.372
175.0	2075.200	2078.286	2069.029	2076.743	2082.915
175.5	2076.743	2079.829	2069.029	2078.286	2084.458
176.0	2079.829	2081.372	2072.115	2079.829	2086.001
176.5	2081.372	2082.915	2072.115	2079.829	2086.001
177.0	2081.372	2082.915	2073.658	2081.372	2086.001
177.5	2082.915	2084.458	2075.200	2081.372	2086.001
178.0	2084.458	2086.001	2075.200	2081.372	2087.544
178.5	2086.001	2086.001	2076.743	2082.915	2086.001
179.0	2086.001	2086.001	2076.743	2082.915	2086.001
179.5	2086.001	2086.001	2078.286	2082.915	2086.001
180.0	2082.915	2082.915	2082.915	2082.915	2082.915

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	738.36	N.A.	7.60
0-30	1516.94	N.A.	15.70
0-40	2374.75	N.A.	24.60
0-60	3822.68	N.A.	39.60
0-80	4536.54	N.A.	47.00
0-90	4611.74	N.A.	47.70
10-90	4417.06	N.A.	45.70
20-40	1636.39	N.A.	16.90
20-50	2431.92	N.A.	25.20
40-70	1909.02	N.A.	19.80
60-80	713.85	N.A.	7.40
70-80	252.77	N.A.	2.60
80-90	75.20	N.A.	0.80
90-110	250.83	N.A.	2.60
90-120	649.58	N.A.	6.70
90-130	1376.17	N.A.	14.20
90-150	3421.85	N.A.	35.40
90-180	5050.34	N.A.	52.30
110-180	4799.51	N.A.	49.70
0-180	9662.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.68
10-20	543.68
20-30	778.58
30-40	857.81
40-50	795.53
50-60	652.41
60-70	461.08
70-80	252.77
80-90	75.20
90-100	57.03
100-110	193.80
110-120	398.75
120-130	726.59
130-140	1007.67
140-150	1038.00
150-160	863.52
160-170	567.62
170-180	197.35

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-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-L4-835U-L8-835D-F-F-(LPW128)-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	11.4	12.2	12.3	13.2	14.5	12.6	13.4	13.5	14.4	15.7
	3H	12.5	13.2	13.5	14.2	15.5	14.1	14.8	15.1	15.8	17.1
	4H	12.7	13.4	13.7	14.4	15.8	14.6	15.3	15.6	16.3	17.7
	6H	12.9	13.5	13.9	14.5	15.9	15.0	15.7	16.0	16.7	18.0
	8H	12.9	13.5	13.9	14.5	15.8	15.1	15.8	16.2	16.8	18.1
	12H	12.8	13.4	13.9	14.4	15.8	15.2	15.8	16.3	16.8	18.2

UGR Viewed Endwise

4H	2H	11.7	12.4	12.7	13.4	14.8	12.7	13.4	13.8	14.5	15.8
	3H	13.0	13.6	14.0	14.6	15.9	14.4	15.0	15.4	16.0	17.3
	4H	13.4	13.9	14.4	14.9	16.3	15.0	15.5	16.0	16.5	17.9
	6H	13.6	14.0	14.6	15.1	16.4	15.5	15.9	16.5	17.0	18.3
	8H	13.6	14.0	14.6	15.1	16.4	15.6	16.1	16.7	17.1	18.5
	12H	13.6	14.0	14.6	15.0	16.4	15.7	16.1	16.8	17.2	18.6

8H	4H	13.5	13.9	14.5	14.9	16.3	15.0	15.4	16.0	16.5	17.8
	6H	13.7	14.1	14.8	15.2	16.6	15.5	15.9	16.6	17.0	18.3
	8H	13.8	14.1	14.9	15.2	16.6	15.7	16.0	16.8	17.1	18.5
	12H	13.8	14.1	14.9	15.1	16.6	15.9	16.1	16.9	17.2	18.6

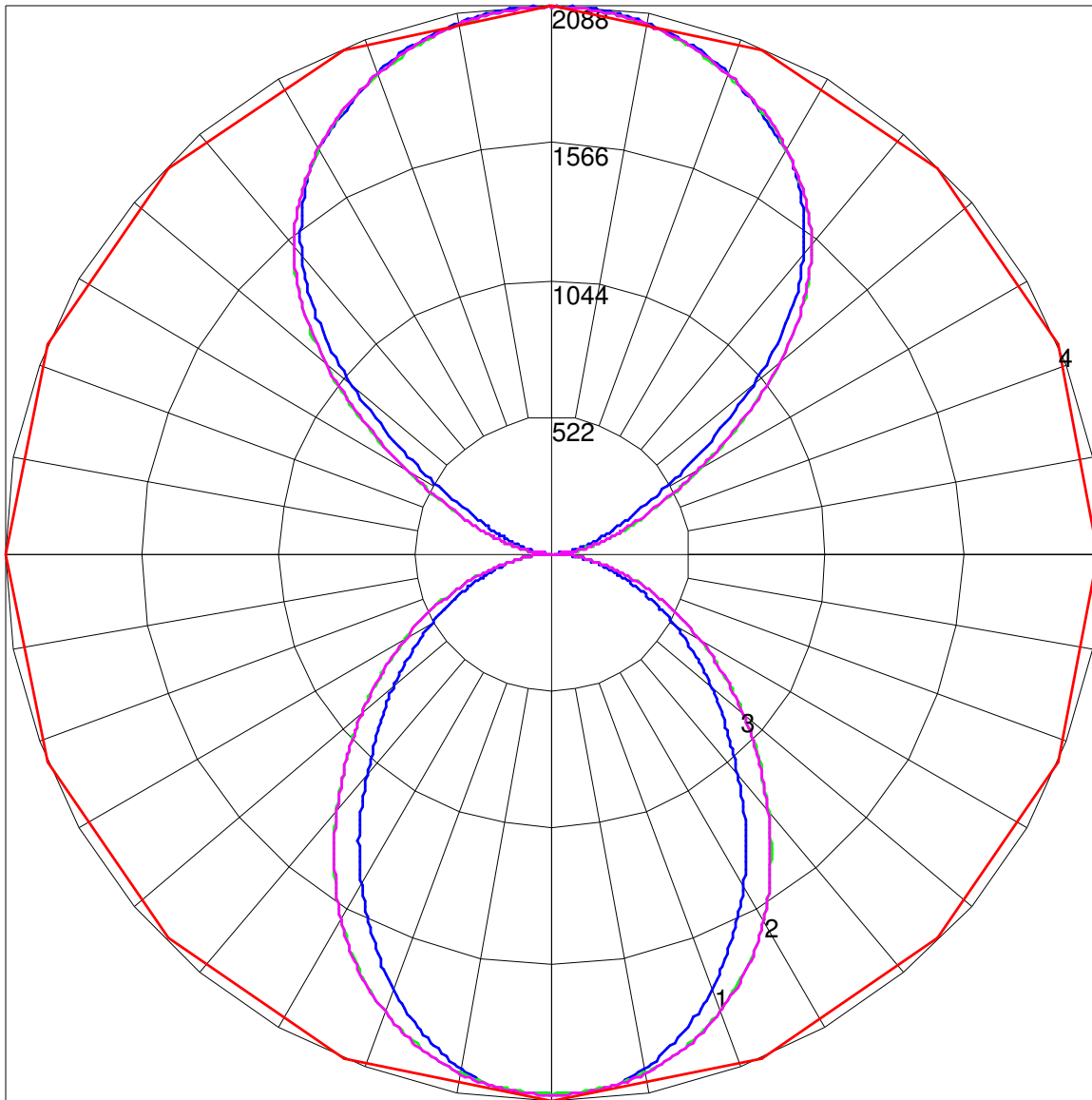
12H	4H	13.5	13.8	14.5	14.9	16.3	15.0	15.3	16.0	16.4	17.8
	6H	13.7	14.1	14.8	15.1	16.5	15.5	15.8	16.6	16.9	18.3
	8H	13.8	14.1	14.9	15.1	16.6	15.7	16.0	16.8	17.0	18.5

Maximum UGR = 18.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-8-00-L4-835U-L8-835D-F-F-(LPW128)-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2087.544 Located At Horizontal Angle = 90, Vertical Angle = 178

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (5 - 185)

3 - Vertical Plane Through Horizontal Angles (10 - 190)

4 - Horizontal Cone Through Vertical Angle (178) (Through Max. Cd.)