



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL 13012869.08
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 03-APR-2020
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX2WUD-4'00-L12/835U/L12/835D-F/F-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing, lens enclosures
 [LAMP] 144 White Downlight LEDs/144 White Uplight 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	10007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	80.8
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)	3.96 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	24577	9883	7463
55	20883	6872	5015
65	17281	4434	3155
75	12652	2370	1685
85	5961	732	554

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2136.467	2136.467	2136.467	2136.467	2136.467
0.5	2130.075	2149.251	2131.673	2133.271	2133.271
1.0	2130.075	2147.653	2131.673	2133.271	2133.271
1.5	2130.075	2147.653	2131.673	2133.271	2134.869
2.0	2128.477	2147.653	2130.075	2133.271	2134.869
2.5	2128.477	2146.055	2130.075	2134.869	2134.869
3.0	2126.879	2144.457	2128.477	2133.271	2133.271
3.5	2125.281	2142.859	2126.879	2133.271	2133.271
4.0	2122.085	2141.261	2125.281	2131.673	2131.673
4.5	2120.488	2139.663	2123.683	2130.075	2130.075
5.0	2118.890	2136.467	2120.488	2128.477	2126.879
5.5	2115.694	2134.869	2118.890	2125.281	2123.683
6.0	2112.498	2131.673	2115.694	2122.085	2120.488
6.5	2109.302	2128.477	2112.498	2117.292	2117.292
7.0	2106.106	2125.281	2109.302	2112.498	2112.498
7.5	2101.312	2122.085	2104.508	2107.704	2106.106
8.0	2098.116	2117.292	2101.312	2101.312	2099.714
8.5	2093.322	2112.498	2096.518	2094.920	2093.322
9.0	2088.528	2109.302	2091.724	2088.528	2086.930
9.5	2083.735	2104.508	2086.930	2082.137	2078.941
10.0	2078.941	2099.714	2080.539	2074.147	2069.353
10.5	2074.147	2094.920	2075.745	2067.755	2059.765
11.0	2069.353	2088.528	2067.755	2059.765	2051.775
11.5	2062.961	2082.137	2061.363	2050.177	2042.188
12.0	2056.569	2077.343	2053.373	2042.188	2031.002
12.5	2050.177	2070.951	2045.384	2032.600	2021.414
13.0	2043.786	2064.559	2037.394	2023.012	2010.229
13.5	2037.394	2056.569	2029.404	2013.424	1999.043
14.0	2029.404	2050.177	2019.816	2003.837	1989.455
14.5	2023.012	2042.188	2010.229	1992.651	1978.269
15.0	2015.022	2034.198	2000.641	1981.465	1965.486
15.5	2005.435	2026.208	1991.053	1970.280	1954.300
16.0	1997.445	2018.218	1981.465	1959.094	1941.516
16.5	1989.455	2008.631	1970.280	1946.310	1928.733
17.0	1981.465	1999.043	1959.094	1935.125	1917.547
17.5	1971.878	1991.053	1947.908	1922.341	1904.763
18.0	1962.290	1979.867	1936.723	1909.557	1891.980
18.5	1954.300	1970.280	1925.537	1898.372	1879.196
19.0	1944.712	1960.692	1912.753	1883.990	1864.815
19.5	1935.125	1949.506	1899.970	1871.206	1852.031
20.0	1923.939	1938.321	1887.186	1858.423	1837.649
20.5	1914.351	1928.733	1874.402	1844.041	1821.670
21.0	1904.763	1915.949	1861.619	1828.062	1808.886
21.5	1893.578	1904.763	1848.835	1813.680	1791.309
22.0	1882.392	1893.578	1836.051	1799.298	1776.927
22.5	1871.206	1880.794	1821.670	1783.319	1762.545
23.0	1860.021	1869.608	1808.886	1767.339	1744.968
23.5	1848.835	1856.825	1794.505	1751.360	1728.988
24.0	1836.051	1844.041	1780.123	1735.380	1711.411
24.5	1824.866	1831.258	1767.339	1719.401	1695.431
25.0	1810.484	1818.474	1751.360	1701.823	1677.854
25.5	1797.700	1805.690	1736.978	1685.844	1661.874
26.0	1784.917	1791.309	1722.597	1669.864	1645.895
26.5	1770.535	1776.927	1706.617	1653.884	1628.317

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27.0	1757.752	1762.545	1692.235	1636.307	1610.740
27.5	1743.370	1748.164	1676.256	1620.327	1594.440
28.0	1727.390	1733.782	1661.874	1602.750	1577.502
28.5	1713.009	1719.401	1644.297	1586.610	1561.203
29.0	1697.029	1703.421	1628.317	1569.992	1545.064
29.5	1682.648	1689.039	1612.338	1553.373	1527.806
30.0	1666.668	1673.060	1595.399	1537.234	1510.388
30.5	1652.286	1655.482	1578.621	1520.295	1494.408
31.0	1636.307	1641.101	1561.523	1503.197	1476.351
31.5	1618.729	1623.523	1543.945	1485.939	1459.094
32.0	1604.348	1605.946	1526.527	1468.202	1441.676
32.5	1586.930	1589.167	1508.790	1449.506	1424.418
33.0	1571.430	1571.270	1490.573	1431.449	1405.722
33.5	1554.651	1554.332	1472.676	1413.392	1387.505
34.0	1537.713	1536.435	1454.459	1395.016	1370.407
34.5	1521.254	1518.058	1436.083	1376.160	1352.350
35.0	1504.795	1500.161	1418.186	1357.304	1333.015
35.5	1488.336	1481.305	1399.969	1338.288	1313.360
36.0	1471.717	1463.568	1380.954	1319.752	1294.504
36.5	1454.779	1445.191	1362.737	1300.417	1275.169
37.0	1437.681	1427.294	1344.041	1281.401	1254.236
37.5	1419.464	1409.078	1325.824	1262.066	1233.782
38.0	1402.366	1390.861	1306.968	1242.411	1213.488
38.5	1384.309	1372.325	1288.751	1222.596	1193.833
39.0	1366.252	1354.268	1269.576	1203.580	1177.214
39.5	1347.876	1336.530	1251.040	1187.281	1159.157
40.0	1329.819	1319.113	1232.184	1168.745	1139.662
40.5	1311.283	1300.736	1213.648	1151.008	1120.487
41.0	1293.545	1282.679	1196.869	1131.832	1102.110
41.5	1275.648	1265.102	1181.688	1112.976	1084.213
42.0	1257.272	1246.885	1163.632	1094.919	1066.795
42.5	1239.055	1229.148	1146.693	1077.342	1050.017
43.0	1221.318	1211.410	1128.796	1060.244	1033.558
43.5	1204.379	1195.271	1111.378	1043.625	1017.578
44.0	1188.080	1180.730	1094.280	1027.486	1001.918
44.5	1175.616	1163.312	1077.342	1011.666	986.578
45.0	1158.039	1146.214	1060.723	996.166	971.078
45.5	1140.781	1129.275	1044.424	980.825	955.897
46.0	1123.842	1111.858	1028.444	965.805	940.717
46.5	1106.744	1094.440	1012.465	950.624	925.696
47.0	1089.966	1077.182	996.805	935.603	910.515
47.5	1072.868	1059.924	980.985	920.582	895.495
48.0	1056.089	1042.986	965.325	905.402	880.474
48.5	1039.311	1026.048	949.505	890.381	865.613
49.0	1022.532	1009.269	933.845	875.041	850.912
49.5	1005.913	992.490	918.026	860.180	836.210
50.0	989.454	975.872	902.366	845.319	821.669
50.5	972.836	959.253	886.546	830.458	807.447
51.0	956.217	942.794	870.726	815.757	793.225
51.5	939.758	926.335	855.066	801.055	779.004
52.0	923.139	909.876	839.726	786.514	764.782
52.5	906.520	893.737	824.385	772.132	750.720
53.0	889.902	877.438	809.365	757.751	736.817
53.5	873.443	861.298	794.504	743.369	722.436
54.0	857.144	845.478	779.802	729.307	708.374
54.5	840.844	829.499	765.261	714.925	694.312

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55.0	824.705	813.839	750.720	700.704	680.250
55.5	808.566	798.339	736.338	686.801	666.348
56.0	792.586	782.839	721.956	672.739	652.286
56.5	776.766	767.658	707.575	659.157	638.703
57.0	761.106	752.318	693.193	645.414	625.280
57.5	745.606	736.977	678.812	631.992	612.177
58.0	730.426	721.637	664.590	618.569	599.074
58.5	715.245	706.456	650.368	605.466	586.450
59.0	700.704	691.595	636.466	592.362	573.666
59.5	686.322	676.894	622.404	579.419	561.202
60.0	671.940	662.193	608.661	566.635	548.898
60.5	657.719	647.652	595.079	554.011	536.594
61.0	643.337	633.110	581.656	541.547	524.449
61.5	628.955	618.888	568.233	529.243	512.464
62.0	614.414	604.667	554.970	516.939	500.799
62.5	600.032	590.605	541.867	504.794	489.134
63.0	585.811	576.702	529.083	492.969	477.629
63.5	571.749	562.800	516.140	481.145	466.124
64.0	557.687	548.738	503.356	469.320	454.778
64.5	543.625	534.836	490.732	457.655	443.433
65.0	529.882	521.093	478.108	446.149	432.407
65.5	515.980	507.351	465.644	434.644	421.381
66.0	502.238	493.768	453.340	423.299	410.355
66.5	488.335	480.186	440.876	411.793	399.329
67.0	474.433	466.923	428.572	400.128	388.143
67.5	460.691	453.500	416.427	388.783	377.118
68.0	447.108	440.077	404.283	377.437	366.252
68.5	433.525	426.814	391.979	366.252	355.385
69.0	420.103	413.391	379.994	355.066	344.519
69.5	406.680	400.288	367.849	343.880	333.973
70.0	393.097	387.185	356.025	332.854	323.266
70.5	379.674	374.241	344.200	321.988	312.880
71.0	366.411	361.138	332.375	311.282	302.653
71.5	353.148	348.195	320.870	300.576	292.746
72.0	340.205	335.251	309.844	290.189	282.998
72.5	327.261	322.627	298.658	280.122	273.250
73.0	314.478	310.163	287.472	270.055	263.663
73.5	301.694	297.859	276.446	260.147	254.235
74.0	289.230	285.555	265.580	250.400	244.807
74.5	276.766	273.570	255.034	240.812	235.539
75.0	264.462	261.745	244.487	231.384	226.271
75.5	252.477	249.920	234.101	222.116	217.322
76.0	240.492	238.415	223.874	213.008	208.533
76.5	228.827	227.070	213.807	203.899	199.904
77.0	217.322	215.884	203.899	194.951	191.116
77.5	205.817	204.858	194.152	186.322	182.646
78.0	194.631	193.992	184.724	177.533	174.017
78.5	183.605	183.445	175.296	169.064	165.708
79.0	172.899	173.059	166.347	160.595	157.718
79.5	162.352	162.832	157.399	152.445	149.728
80.0	151.966	152.924	148.770	144.295	141.898
80.5	141.739	143.337	140.141	136.306	134.228
81.0	131.991	133.909	131.672	128.635	126.718
81.5	122.563	124.800	123.362	120.965	119.367
82.0	113.135	115.852	115.213	113.295	112.017
82.5	104.027	106.903	107.383	105.944	104.986

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83.0	95.238	98.434	99.393	98.754	97.795
83.5	86.609	90.125	91.723	91.563	90.924
84.0	78.300	82.295	84.372	84.532	84.212
84.5	70.310	74.625	77.021	77.661	77.341
85.0	62.640	67.114	69.831	70.949	70.630
85.5	55.289	59.923	62.959	64.398	64.238
86.0	48.098	52.733	56.248	57.846	57.846
86.5	41.227	46.021	49.696	51.614	51.614
87.0	34.516	39.310	43.305	45.542	45.542
87.5	27.964	32.918	36.913	39.470	39.470
88.0	21.572	26.686	30.841	33.557	33.717
88.5	15.181	20.614	24.768	28.124	28.284
89.0	8.789	13.902	18.376	21.732	20.933
89.5	4.314	8.309	11.665	13.742	12.943
90.0	3.835	6.072	7.510	7.990	6.552
90.5	4.314	8.949	12.144	12.943	12.784
91.0	8.789	11.026	14.062	16.779	16.938
91.5	15.340	14.701	16.139	18.057	18.217
92.0	22.851	19.815	19.175	20.614	20.614
92.5	30.521	25.407	22.371	23.490	23.490
93.0	38.191	31.640	26.047	26.526	26.366
93.5	46.021	37.872	30.681	29.722	29.562
94.0	53.851	44.104	35.954	33.078	32.758
94.5	61.681	50.655	41.707	36.753	36.114
95.0	69.511	57.526	47.939	41.067	39.629
95.5	77.181	64.717	54.331	45.861	43.784
96.0	85.011	72.228	60.563	51.135	48.418
96.5	92.681	79.898	66.635	56.887	53.372
97.0	100.511	87.728	72.387	62.959	59.124
97.5	108.341	95.398	78.140	69.191	65.037
98.0	116.171	103.228	84.052	75.264	71.109
98.5	124.001	110.898	89.805	81.176	77.181
99.0	131.831	118.728	95.558	86.929	83.094
99.5	139.661	126.558	101.630	92.681	89.006
100.0	147.491	134.388	107.702	98.274	94.599
100.5	155.481	142.378	113.934	104.027	100.352
101.0	163.311	150.368	120.326	109.780	106.104
101.5	171.461	158.357	126.718	115.692	111.857
102.0	179.610	166.507	133.589	121.445	117.769
102.5	188.079	174.816	140.460	127.357	123.682
103.0	196.549	183.286	147.332	133.429	129.434
103.5	205.337	191.915	154.522	139.661	135.507
104.0	214.286	200.703	162.033	145.893	141.739
104.5	223.075	209.652	169.543	152.445	148.131
105.0	232.023	218.760	177.373	158.997	154.682
105.5	241.132	228.028	185.363	165.708	161.234
106.0	250.559	237.456	193.672	172.579	168.105
106.5	260.307	247.204	202.301	179.770	174.976
107.0	270.374	257.271	211.250	186.961	182.167
107.5	280.601	267.498	220.518	194.471	189.358
108.0	291.307	278.044	229.946	202.301	196.868
108.5	302.333	288.910	239.853	210.451	204.538
109.0	313.679	300.096	249.920	218.760	212.528
109.5	325.184	311.442	260.467	227.389	220.838
110.0	337.328	323.266	271.333	236.338	229.307
110.5	349.633	335.571	282.678	245.766	238.095

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111.0	362.576	348.035	294.503	255.513	247.204
111.5	375.679	360.978	306.808	265.900	256.792
112.0	389.582	374.561	319.591	276.606	267.018
112.5	403.803	388.463	332.854	287.952	277.405
113.0	418.505	403.004	346.756	299.617	288.431
113.5	433.685	417.865	361.138	311.761	299.617
114.0	449.505	433.206	375.999	324.545	311.761
114.5	465.644	449.026	391.499	337.968	324.225
115.0	482.423	465.485	407.479	351.870	337.488
115.5	499.681	482.423	424.257	366.411	351.071
116.0	517.258	499.841	441.515	381.752	365.453
116.5	535.475	517.898	459.412	397.891	380.314
117.0	554.491	536.114	477.949	414.510	396.133
117.5	573.986	555.130	496.964	431.927	412.592
118.0	594.120	574.465	516.619	449.984	429.531
118.5	614.734	594.599	536.913	468.521	447.108
119.0	635.827	615.213	557.527	487.696	465.485
119.5	657.239	636.306	578.939	507.830	484.500
120.0	678.812	658.038	600.991	528.444	504.155
120.5	701.023	680.250	623.522	549.857	524.449
121.0	723.714	703.101	646.693	572.068	545.542
121.5	747.044	726.431	670.343	595.079	567.594
122.0	770.854	750.400	694.631	618.569	590.285
122.5	795.303	774.529	719.400	643.017	613.935
123.0	820.231	799.138	744.488	667.946	638.064
123.5	845.478	824.066	770.055	693.353	662.832
124.0	870.886	849.473	795.942	719.400	688.240
124.5	896.773	874.881	822.148	746.245	714.446
125.0	922.660	900.768	848.834	773.570	741.611
125.5	948.387	926.814	875.680	801.535	769.096
126.0	973.954	953.021	902.685	829.819	796.901
126.5	999.681	979.227	929.691	858.582	825.344
127.0	1025.888	1005.753	957.176	887.665	854.587
127.5	1052.254	1032.280	984.501	917.067	883.989
128.0	1078.460	1059.125	1011.826	946.469	913.711
128.5	1104.507	1085.651	1038.991	975.872	943.433
129.0	1129.915	1112.018	1065.837	1005.434	973.315
129.5	1155.642	1138.224	1092.682	1034.836	1003.676
130.0	1178.013	1163.472	1119.208	1064.398	1034.357
130.5	1199.106	1185.204	1145.415	1093.641	1064.718
131.0	1223.395	1209.493	1168.745	1122.564	1095.239
131.5	1247.844	1233.462	1192.874	1149.889	1125.600
132.0	1271.813	1258.071	1215.086	1176.575	1152.606
132.5	1295.782	1282.200	1239.854	1203.740	1182.328
133.0	1319.432	1305.690	1264.463	1227.550	1211.570
133.5	1342.283	1329.499	1288.592	1253.596	1236.658
134.0	1364.495	1352.190	1312.561	1279.324	1264.942
134.5	1386.546	1374.881	1335.731	1304.571	1292.427
135.0	1407.160	1396.454	1358.902	1329.340	1318.953
135.5	1428.093	1417.866	1381.593	1353.149	1344.360
136.0	1448.387	1438.800	1403.644	1376.959	1369.448
136.5	1467.403	1459.413	1425.377	1399.650	1394.057
137.0	1486.259	1478.908	1447.269	1422.660	1417.707
137.5	1504.635	1498.723	1467.083	1444.712	1440.877
138.0	1523.012	1517.579	1487.697	1466.125	1462.929
138.5	1541.069	1536.435	1507.032	1486.738	1483.862

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1557.528	1554.651	1525.728	1507.192	1505.115
139.5	1574.146	1572.548	1544.424	1526.527	1524.929
140.0	1590.605	1589.007	1562.002	1546.342	1544.584
140.5	1605.946	1605.946	1579.420	1564.718	1563.121
141.0	1621.925	1621.925	1597.157	1582.935	1581.177
141.5	1636.307	1637.905	1613.936	1601.152	1599.554
142.0	1650.688	1653.884	1631.513	1617.131	1617.131
142.5	1665.070	1668.266	1645.895	1634.709	1633.111
143.0	1679.452	1682.648	1661.874	1650.688	1650.688
143.5	1692.235	1697.029	1677.854	1666.668	1666.668
144.0	1705.019	1709.813	1692.235	1682.648	1682.648
144.5	1717.803	1724.194	1705.019	1698.627	1698.627
145.0	1730.586	1736.978	1719.401	1713.009	1714.607
145.5	1743.370	1749.762	1732.184	1727.390	1730.586
146.0	1754.556	1762.545	1744.968	1741.772	1744.968
146.5	1767.339	1773.731	1757.752	1756.154	1760.947
147.0	1778.525	1784.917	1770.535	1768.937	1773.731
147.5	1788.113	1797.700	1781.721	1781.721	1788.113
148.0	1800.896	1808.886	1794.505	1794.505	1800.896
148.5	1812.082	1820.072	1805.690	1805.690	1813.680
149.0	1823.268	1831.258	1816.876	1816.876	1824.866
149.5	1832.855	1842.443	1828.062	1828.062	1836.051
150.0	1844.041	1852.031	1839.247	1837.649	1845.639
150.5	1853.629	1863.217	1850.433	1847.237	1855.227
151.0	1863.217	1872.804	1861.619	1858.423	1864.815
151.5	1874.402	1883.990	1871.206	1868.010	1872.804
152.0	1883.990	1893.578	1882.392	1877.598	1880.794
152.5	1893.578	1903.166	1893.578	1887.186	1890.382
153.0	1903.166	1912.753	1903.166	1896.774	1898.372
153.5	1912.753	1920.743	1912.753	1906.361	1906.361
154.0	1920.743	1930.331	1922.341	1915.949	1914.351
154.5	1930.331	1939.919	1931.929	1925.537	1923.939
155.0	1938.321	1947.908	1941.516	1935.125	1931.929
155.5	1946.310	1955.898	1951.104	1944.712	1941.516
156.0	1954.300	1963.888	1959.094	1954.300	1951.104
156.5	1962.290	1971.878	1968.682	1963.888	1960.692
157.0	1968.682	1979.867	1976.672	1973.476	1968.682
157.5	1976.672	1987.857	1984.661	1983.063	1978.269
158.0	1984.661	1995.847	1992.651	1991.053	1987.857
158.5	1992.651	2002.239	2000.641	2000.641	1995.847
159.0	1999.043	2010.229	2007.033	2008.631	2003.837
159.5	2005.435	2016.620	2015.022	2018.218	2013.424
160.0	2011.827	2023.012	2023.012	2026.208	2021.414
160.5	2018.218	2029.404	2029.404	2032.600	2029.404
161.0	2024.610	2035.796	2035.796	2040.590	2037.394
161.5	2031.002	2042.188	2042.188	2046.982	2043.786
162.0	2037.394	2048.580	2048.580	2053.373	2051.775
162.5	2043.786	2054.971	2054.971	2059.765	2058.167
163.0	2050.177	2059.765	2061.363	2066.157	2064.559
163.5	2056.569	2066.157	2066.157	2070.951	2069.353
164.0	2062.961	2072.549	2072.549	2075.745	2075.745
164.5	2067.755	2078.941	2077.343	2080.539	2080.539
165.0	2074.147	2083.735	2082.137	2085.333	2085.333
165.5	2078.941	2088.528	2085.333	2090.126	2090.126
166.0	2085.333	2094.920	2090.126	2093.322	2094.920
166.5	2090.126	2099.714	2093.322	2098.116	2098.116

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2094.920	2104.508	2098.116	2102.910	2104.508
167.5	2099.714	2109.302	2101.312	2106.106	2107.704
168.0	2104.508	2112.498	2106.106	2110.900	2110.900
168.5	2109.302	2117.292	2109.302	2114.096	2115.694
169.0	2112.498	2120.488	2112.498	2118.890	2120.488
169.5	2117.292	2125.281	2115.694	2122.085	2123.683
170.0	2120.488	2128.477	2118.890	2125.281	2128.477
170.5	2125.281	2131.673	2122.085	2128.477	2131.673
171.0	2128.477	2134.869	2123.683	2131.673	2134.869
171.5	2130.075	2136.467	2126.879	2134.869	2139.663
172.0	2134.869	2139.663	2130.075	2138.065	2142.859
172.5	2136.467	2142.859	2131.673	2141.261	2146.055
173.0	2139.663	2144.457	2134.869	2142.859	2149.251
173.5	2142.859	2147.653	2136.467	2144.457	2152.447
174.0	2144.457	2149.251	2138.065	2147.653	2154.045
174.5	2147.653	2150.849	2141.261	2149.251	2155.643
175.0	2149.251	2152.447	2142.859	2150.849	2157.241
175.5	2150.849	2154.045	2142.859	2152.447	2158.838
176.0	2154.045	2155.643	2146.055	2154.045	2160.436
176.5	2155.643	2157.241	2146.055	2154.045	2160.436
177.0	2155.643	2157.241	2147.653	2155.643	2160.436
177.5	2157.241	2158.838	2149.251	2155.643	2160.436
178.0	2158.838	2160.436	2149.251	2155.643	2162.034
178.5	2160.436	2160.436	2150.849	2157.241	2160.436
179.0	2160.436	2160.436	2150.849	2157.241	2160.436
179.5	2160.436	2160.436	2152.447	2157.241	2160.436
180.0	2157.241	2157.241	2157.241	2157.241	2157.241

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	764.71	N.A.	7.60
0-30	1571.07	N.A.	15.70
0-40	2459.49	N.A.	24.60
0-60	3959.09	N.A.	39.60
0-80	4698.42	N.A.	47.00
0-90	4776.3	N.A.	47.70
10-90	4574.68	N.A.	45.70
20-40	1694.78	N.A.	16.90
20-50	2518.7	N.A.	25.20
40-70	1977.14	N.A.	19.80
60-80	739.33	N.A.	7.40
70-80	261.79	N.A.	2.60
80-90	77.88	N.A.	0.80
90-110	259.78	N.A.	2.60
90-120	672.76	N.A.	6.70
90-130	1425.28	N.A.	14.20
90-150	3543.95	N.A.	35.40
90-180	5230.55	N.A.	52.30
110-180	4970.77	N.A.	49.70
0-180	10006.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.63
10-20	563.08
20-30	806.36
30-40	888.42
40-50	823.92
50-60	675.69
60-70	477.54
70-80	261.79
80-90	77.88
90-100	59.06
100-110	200.72
110-120	412.98
120-130	752.52
130-140	1043.63
140-150	1075.04
150-160	894.34
160-170	587.87
170-180	204.39

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-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	170	170	170	170	157	157	157	157	131	131	131	108	108	108	86	86	86	76
1	156	149	143	138	143	137	132	128	116	112	108	95	93	91	77	75	74	65
2	142	131	121	113	131	121	112	105	102	96	91	84	80	76	68	65	63	55
3	130	115	104	95	119	107	97	89	90	83	77	75	70	65	61	57	54	47
4	119	102	90	81	109	95	84	76	80	72	66	67	61	56	55	50	47	41
5	110	91	79	69	101	85	74	65	72	64	57	60	54	49	50	45	41	36
6	101	82	70	60	93	76	65	57	65	56	50	55	48	43	45	40	37	32
7	94	74	62	53	86	69	58	50	59	51	44	50	43	38	41	36	33	28
8	87	68	55	47	80	63	52	45	54	46	39	46	39	34	38	33	29	26
9	81	62	50	42	75	58	47	40	50	41	35	42	36	31	35	30	27	23
10	76	57	45	38	70	53	43	36	46	38	32	39	33	28	33	28	24	21

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2WUD-4-00-L12-835U-L12-835D-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

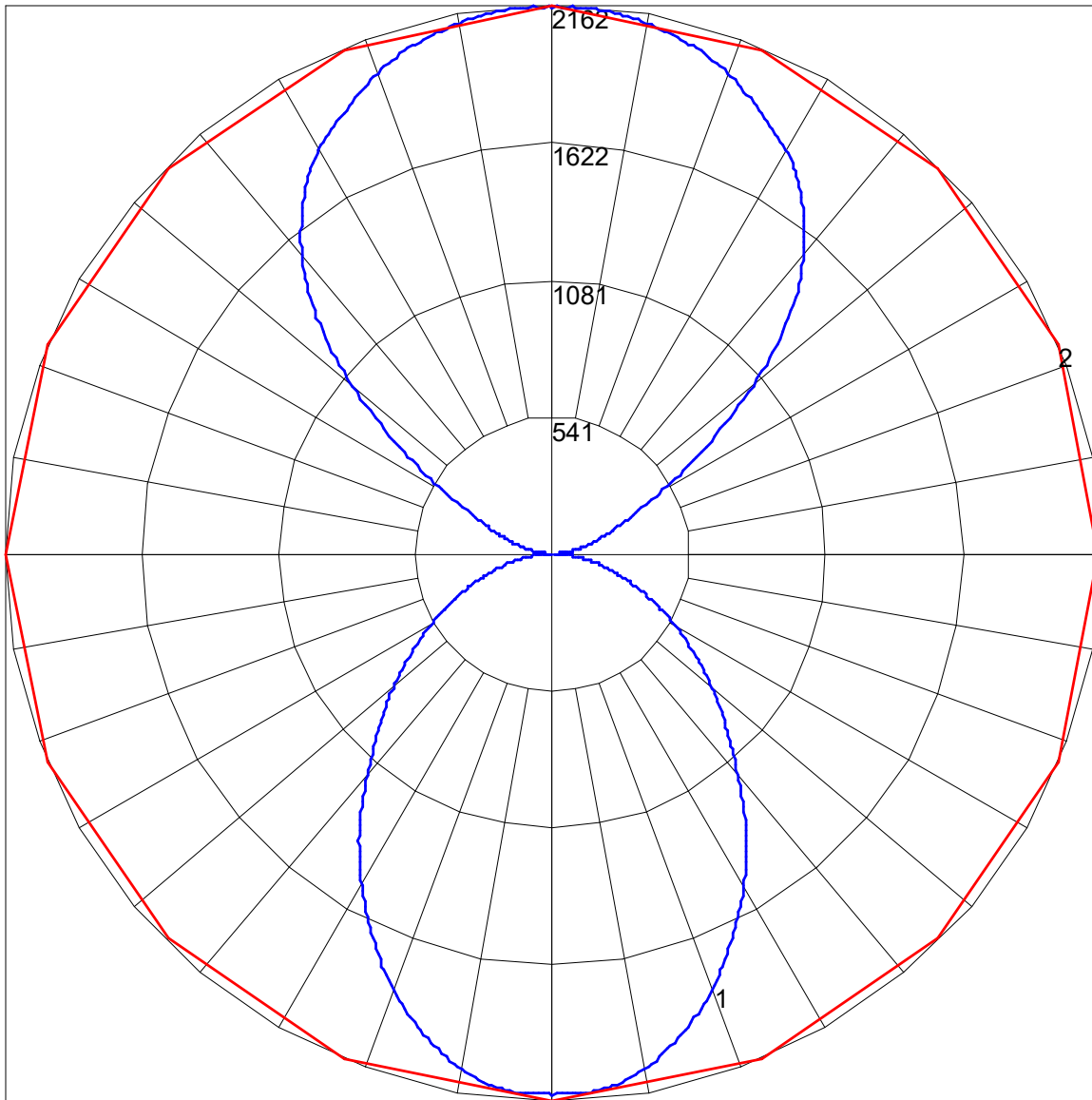
X=2H	Y=2H	12.3	13.1	13.3	14.1	15.4	13.4	14.2	14.4	15.2	16.5
	3H	13.4	14.1	14.4	15.1	16.4	14.9	15.6	15.9	16.6	18.0
	4H	13.7	14.4	14.7	15.4	16.7	15.4	16.1	16.4	17.1	18.4
	6H	13.8	14.4	14.8	15.4	16.8	15.8	16.4	16.8	17.4	18.8
	8H	13.8	14.4	14.8	15.4	16.8	15.9	16.5	16.9	17.5	18.9
	12H	13.8	14.4	14.8	15.4	16.7	16.0	16.6	17.0	17.6	18.9

UGR Viewed Endwise

4H	2H	12.6	13.4	13.7	14.4	15.7	13.6	14.3	14.6	15.3	16.6
	3H	13.9	14.5	14.9	15.5	16.9	15.2	15.8	16.2	16.8	18.2
	4H	14.3	14.8	15.3	15.8	17.2	15.8	16.3	16.8	17.4	18.7
	6H	14.5	14.9	15.5	16.0	17.4	16.3	16.7	17.3	17.8	19.1
	8H	14.5	14.9	15.5	16.0	17.4	16.4	16.8	17.4	17.9	19.2
	12H	14.5	14.9	15.5	15.9	17.3	16.5	16.9	17.6	17.9	19.3
8H	4H	14.4	14.8	15.4	15.9	17.2	15.8	16.2	16.8	17.3	18.7
	6H	14.7	15.0	15.7	16.1	17.5	16.3	16.7	17.4	17.8	19.1
	8H	14.7	15.0	15.8	16.1	17.5	16.5	16.8	17.6	17.9	19.3
	12H	14.7	15.0	15.8	16.1	17.5	16.6	16.9	17.7	18.0	19.4
12H	4H	14.4	14.8	15.4	15.8	17.2	15.8	16.2	16.8	17.2	18.6
	6H	14.7	15.0	15.7	16.0	17.4	16.3	16.6	17.4	17.7	19.1
	8H	14.7	15.0	15.8	16.1	17.5	16.5	16.8	17.6	17.8	19.3

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 2162.034 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.)