



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-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 FEB 2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2UD-5-09-L4-835U-L4-835D-F-F-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	4608
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	37.1
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	7984	3156	2366
55	6849	2197	1590
65	5752	1419	1000
75	4333	759	534
85	2230	235	176

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-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	983.854	983.854	983.854	983.854	983.854
0.5	980.911	989.741	981.647	982.383	982.383
1.0	980.911	989.005	981.647	982.383	982.383
1.5	980.911	989.005	981.647	982.383	983.118
2.0	980.175	989.005	980.911	982.383	983.118
2.5	980.175	988.269	980.911	983.118	983.118
3.0	979.439	987.534	980.175	982.383	982.383
3.5	978.703	986.798	979.439	982.383	982.383
4.0	977.231	986.062	978.703	981.647	981.647
4.5	976.496	985.326	977.967	980.911	980.911
5.0	975.760	983.854	976.496	980.175	979.439
5.5	974.288	983.118	975.760	978.703	977.967
6.0	972.816	981.647	974.288	977.231	976.496
6.5	971.345	980.175	972.816	975.024	975.024
7.0	969.873	978.703	971.345	972.816	972.816
7.5	967.665	977.231	969.137	970.609	969.873
8.0	966.193	975.024	967.665	967.665	966.929
8.5	963.986	972.816	965.458	964.722	963.986
9.0	961.778	971.345	963.250	961.778	961.042
9.5	959.571	969.137	961.042	958.835	957.363
10.0	957.363	966.929	958.099	955.155	952.948
10.5	955.155	964.722	955.891	952.212	948.533
11.0	952.948	961.778	952.212	948.533	944.853
11.5	950.004	958.835	949.269	944.117	940.438
12.0	947.061	956.627	945.589	940.438	935.287
12.5	944.117	953.684	941.910	936.023	930.872
13.0	941.174	950.740	938.231	931.608	925.721
13.5	938.231	947.061	934.551	927.193	920.570
14.0	934.551	944.117	930.136	922.777	916.155
14.5	931.608	940.438	925.721	917.626	911.003
15.0	927.928	936.759	921.306	912.475	905.117
15.5	923.513	933.079	916.890	907.324	899.965
16.0	919.834	929.400	912.475	902.173	894.079
16.5	916.155	924.985	907.324	896.286	888.192
17.0	912.475	920.570	902.173	891.135	883.040
17.5	908.060	916.890	897.022	885.248	877.154
18.0	903.645	911.739	891.871	879.361	871.267
18.5	899.965	907.324	886.720	874.210	865.380
19.0	895.550	902.909	880.833	867.587	858.757
19.5	891.135	897.758	874.946	861.700	852.870
20.0	885.984	892.607	869.059	855.813	846.247
20.5	881.569	888.192	863.172	849.191	838.888
21.0	877.154	882.305	857.285	841.832	833.002
21.5	872.002	877.154	851.398	835.209	824.907
22.0	866.851	872.002	845.511	828.586	818.284
22.5	861.700	866.116	838.888	821.228	811.661
23.0	856.549	860.964	833.002	813.869	803.567
23.5	851.398	855.078	826.379	806.510	796.208
24.0	845.511	849.191	819.756	799.152	788.114
24.5	840.360	843.304	813.869	791.793	780.755
25.0	833.737	837.417	806.510	783.698	772.660
25.5	827.850	831.530	799.888	776.340	765.302
26.0	821.964	824.907	793.265	768.981	757.943
26.5	815.341	818.284	785.906	761.622	749.849

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	809.454	811.661	779.283	753.528	741.754
27.5	802.831	805.039	771.925	746.169	734.248
28.0	795.472	798.416	765.302	738.075	726.448
28.5	788.850	791.793	757.207	730.642	718.942
29.0	781.491	784.434	749.849	722.989	711.510
29.5	774.868	777.812	742.490	715.336	703.563
30.0	767.509	770.453	734.690	707.904	695.542
30.5	760.887	762.358	726.963	700.104	688.183
31.0	753.528	755.735	719.089	692.230	679.868
31.5	745.433	747.641	710.995	684.283	671.920
32.0	738.811	739.546	702.974	676.115	663.899
32.5	730.790	731.820	694.806	667.505	655.952
33.0	723.652	723.578	686.417	659.190	647.342
33.5	715.925	715.778	678.175	650.874	638.953
34.0	708.125	707.536	669.786	642.412	631.080
34.5	700.545	699.074	661.324	633.729	622.764
35.0	692.966	690.832	653.082	625.046	613.860
35.5	685.387	682.149	644.693	616.289	604.809
36.0	677.734	673.981	635.936	607.753	596.126
36.5	669.933	665.518	627.547	598.849	587.222
37.0	662.060	657.276	618.938	590.092	577.582
37.5	653.671	648.888	610.549	581.188	568.163
38.0	645.797	640.499	601.866	572.137	558.817
38.5	637.482	631.963	593.477	563.012	549.766
39.0	629.166	623.647	584.646	554.255	542.113
39.5	620.704	615.479	576.110	546.749	533.798
40.0	612.389	607.458	567.427	538.213	524.820
40.5	603.853	598.996	558.891	530.045	515.990
41.0	595.684	590.681	551.164	521.215	507.528
41.5	587.443	582.586	544.174	512.531	499.286
42.0	578.980	574.197	535.858	504.216	491.265
42.5	570.591	566.029	528.058	496.122	483.538
43.0	562.423	557.861	519.817	488.248	475.959
43.5	554.623	550.429	511.796	480.595	468.600
44.0	547.117	543.732	503.922	473.163	461.389
44.5	541.377	535.711	496.122	465.877	454.324
45.0	533.283	527.837	488.469	458.740	447.186
45.5	525.336	520.037	480.963	451.675	440.196
46.0	517.535	512.016	473.604	444.758	433.205
46.5	509.662	503.995	466.245	437.767	426.288
47.0	501.935	496.048	459.034	430.850	419.297
47.5	494.061	488.101	451.749	423.933	412.380
48.0	486.335	480.300	444.537	416.942	405.463
48.5	478.608	472.500	437.252	410.025	398.619
49.0	470.881	464.774	430.041	402.961	391.849
49.5	463.228	457.047	422.756	396.117	385.079
50.0	455.649	449.394	415.544	389.274	378.383
50.5	447.996	441.741	408.259	382.430	371.834
51.0	440.343	434.162	400.974	375.660	365.284
51.5	432.763	426.582	393.762	368.890	358.735
52.0	425.110	419.003	386.698	362.194	352.186
52.5	417.457	411.570	379.634	355.571	345.710
53.0	409.804	404.065	372.717	348.948	339.308
53.5	402.225	396.632	365.873	342.325	332.686
54.0	394.719	389.347	359.103	335.850	326.210
54.5	387.213	381.989	352.407	329.227	319.734

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	379.781	374.777	345.710	322.678	313.259
55.5	372.349	367.639	339.088	316.276	306.857
56.0	364.990	360.501	332.465	309.800	300.381
56.5	357.705	353.511	325.842	303.545	294.126
57.0	350.493	346.446	319.219	297.217	287.945
57.5	343.356	339.382	312.596	291.035	281.911
58.0	336.365	332.318	306.047	284.854	275.877
58.5	329.374	325.327	299.498	278.820	270.063
59.0	322.678	318.483	293.096	272.786	264.176
59.5	316.055	311.713	286.620	266.825	258.437
60.0	309.432	304.943	280.292	260.938	252.770
60.5	302.883	298.247	274.037	255.125	247.104
61.0	296.260	291.551	267.856	249.385	241.512
61.5	289.637	285.001	261.674	243.719	235.993
62.0	282.941	278.452	255.567	238.053	230.621
62.5	276.318	271.976	249.533	232.460	225.249
63.0	269.769	265.574	243.646	227.015	219.951
63.5	263.293	259.172	237.685	221.570	214.652
64.0	256.818	252.697	231.798	216.124	209.428
64.5	250.342	246.295	225.985	210.752	204.203
65.0	244.014	239.966	220.171	205.454	199.126
65.5	237.611	233.638	214.432	200.156	194.048
66.0	231.283	227.383	208.765	194.931	188.971
66.5	224.881	221.128	203.026	189.633	183.893
67.0	218.479	215.020	197.360	184.261	178.742
67.5	212.150	208.839	191.767	179.036	173.665
68.0	205.896	202.658	186.174	173.812	168.661
68.5	199.641	196.550	180.508	168.661	163.657
69.0	193.459	190.369	174.989	163.510	158.653
69.5	187.278	184.335	169.397	158.359	153.796
70.0	181.023	178.301	163.951	153.281	148.866
70.5	174.842	172.340	158.506	148.277	144.083
71.0	168.734	166.306	153.060	143.347	139.373
71.5	162.627	160.345	147.762	138.417	134.811
72.0	156.666	154.385	142.685	133.633	130.322
72.5	150.706	148.572	137.534	128.997	125.833
73.0	144.819	142.832	132.382	124.362	121.418
73.5	138.932	137.166	127.305	119.799	117.076
74.0	133.192	131.499	122.301	115.310	112.735
74.5	127.452	125.980	117.444	110.895	108.467
75.0	121.786	120.535	112.588	106.554	104.199
75.5	116.267	115.090	107.805	102.286	100.078
76.0	110.748	109.791	103.095	98.091	96.031
76.5	105.376	104.567	98.459	93.897	92.057
77.0	100.078	99.416	93.897	89.776	88.010
77.5	94.780	94.338	89.408	85.802	84.110
78.0	89.629	89.334	85.066	81.755	80.136
78.5	84.551	84.478	80.725	77.855	76.309
79.0	79.621	79.694	76.604	73.955	72.630
79.5	74.764	74.985	72.483	70.202	68.951
80.0	69.981	70.422	68.509	66.449	65.345
80.5	65.271	66.007	64.536	62.769	61.813
81.0	60.783	61.666	60.635	59.237	58.354
81.5	56.441	57.471	56.809	55.705	54.969
82.0	52.099	53.350	53.056	52.173	51.584
82.5	47.905	49.230	49.450	48.788	48.346

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	43.858	45.329	45.771	45.477	45.035
83.5	39.884	41.503	42.239	42.165	41.871
84.0	36.057	37.897	38.854	38.927	38.780
84.5	32.378	34.365	35.469	35.763	35.616
85.0	28.846	30.906	32.157	32.672	32.525
85.5	25.461	27.595	28.993	29.655	29.582
86.0	22.150	24.284	25.903	26.638	26.638
86.5	18.985	21.193	22.885	23.769	23.769
87.0	15.895	18.102	19.942	20.972	20.972
87.5	12.878	15.159	16.999	18.176	18.176
88.0	9.934	12.289	14.202	15.453	15.527
88.5	6.991	9.493	11.406	12.951	13.025
89.0	4.047	6.402	8.462	10.008	9.640
89.5	1.987	3.827	5.372	6.328	5.961
90.0	1.766	2.796	3.459	3.679	3.017
90.5	1.987	4.121	5.593	5.961	5.887
91.0	4.047	5.077	6.476	7.727	7.800
91.5	7.064	6.770	7.432	8.315	8.389
92.0	10.523	9.125	8.830	9.493	9.493
92.5	14.055	11.700	10.302	10.817	10.817
93.0	17.587	14.570	11.995	12.215	12.142
93.5	21.193	17.440	14.129	13.687	13.614
94.0	24.799	20.310	16.557	15.232	15.085
94.5	28.404	23.327	19.206	16.925	16.631
95.0	32.010	26.491	22.076	18.912	18.250
95.5	35.542	29.803	25.019	21.119	20.163
96.0	39.148	33.261	27.889	23.548	22.297
96.5	42.680	36.793	30.686	26.197	24.578
97.0	46.286	40.399	33.335	28.993	27.227
97.5	49.892	43.931	35.984	31.863	29.950
98.0	53.498	47.537	38.707	34.659	32.746
98.5	57.103	51.069	41.356	37.382	35.542
99.0	60.709	54.675	44.005	40.031	38.265
99.5	64.315	58.281	46.801	42.680	40.988
100.0	67.921	61.886	49.597	45.256	43.563
100.5	71.600	65.566	52.467	47.905	46.212
101.0	75.206	69.245	55.411	50.554	48.862
101.5	78.959	72.924	58.354	53.277	51.511
102.0	82.711	76.677	61.518	55.926	54.233
102.5	86.612	80.504	64.683	58.649	56.956
103.0	90.512	84.404	67.847	61.445	59.605
103.5	94.559	88.378	71.158	64.315	62.402
104.0	98.680	92.425	74.617	67.185	65.271
104.5	102.727	96.546	78.075	70.202	68.215
105.0	106.848	100.740	81.681	73.219	71.232
105.5	111.042	105.008	85.361	76.309	74.249
106.0	115.384	109.350	89.187	79.474	77.413
106.5	119.873	113.839	93.161	82.785	80.577
107.0	124.509	118.475	97.282	86.096	83.889
107.5	129.218	123.184	101.550	89.555	87.200
108.0	134.149	128.041	105.891	93.161	90.659
108.5	139.226	133.045	110.454	96.914	94.191
109.0	144.451	138.196	115.090	100.740	97.870
109.5	149.749	143.420	119.946	104.714	101.697
110.0	155.342	148.866	124.950	108.835	105.597
110.5	161.008	154.532	130.175	113.176	109.644

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

111.0	166.968	160.272	135.620	117.665	113.839
111.5	173.002	166.232	141.286	122.448	118.254
112.0	179.404	172.487	147.173	127.379	122.963
112.5	185.954	178.889	153.281	132.603	127.747
113.0	192.724	185.586	159.683	137.975	132.824
113.5	199.714	192.429	166.306	143.568	137.975
114.0	206.999	199.494	173.150	149.455	143.568
114.5	214.432	206.779	180.287	155.636	149.307
115.0	222.158	214.358	187.646	162.038	155.415
115.5	230.106	222.158	195.373	168.734	161.670
116.0	238.200	230.179	203.320	175.799	168.293
116.5	246.589	238.495	211.562	183.231	175.136
117.0	255.346	246.883	220.098	190.884	182.421
117.5	264.323	255.640	228.855	198.905	190.001
118.0	273.595	264.544	237.906	207.220	197.801
118.5	283.088	273.816	247.251	215.756	205.896
119.0	292.802	283.309	256.744	224.587	214.358
119.5	302.662	293.022	266.605	233.859	223.115
120.0	312.596	303.030	276.760	243.351	232.166
120.5	322.825	313.259	287.135	253.212	241.512
121.0	333.274	323.782	297.805	263.440	251.225
121.5	344.018	334.525	308.696	274.037	261.380
122.0	354.982	345.563	319.881	284.854	271.829
122.5	366.241	356.675	331.287	296.113	282.720
123.0	377.721	368.007	342.840	307.592	293.832
123.5	389.347	379.487	354.614	319.293	305.238
124.0	401.048	391.187	366.535	331.287	316.938
124.5	412.969	402.887	378.604	343.650	329.006
125.0	424.890	414.808	390.893	356.233	341.516
125.5	436.737	426.803	403.255	369.111	354.173
126.0	448.511	438.871	415.691	382.136	366.977
126.5	460.358	450.939	428.127	395.381	380.075
127.0	472.427	463.155	440.784	408.774	393.542
127.5	484.568	475.370	453.368	422.314	407.082
128.0	496.637	487.733	465.951	435.854	420.769
128.5	508.631	499.948	478.461	449.394	434.456
129.0	520.332	512.090	490.823	463.008	448.217
129.5	532.179	524.158	503.186	476.548	462.198
130.0	542.481	535.785	515.401	490.161	476.327
130.5	552.195	545.793	527.470	503.627	490.308
131.0	563.380	556.978	538.213	516.947	504.363
131.5	574.639	568.016	549.325	529.530	518.345
132.0	585.677	579.348	559.553	541.819	530.781
132.5	596.715	590.460	570.959	554.329	544.468
133.0	607.605	601.277	582.292	565.293	557.934
133.5	618.128	612.241	593.403	577.288	569.488
134.0	628.357	622.691	604.441	589.135	582.512
134.5	638.512	633.140	615.111	600.762	595.169
135.0	648.005	643.074	625.781	612.168	607.385
135.5	657.644	652.935	636.231	623.132	619.085
136.0	666.990	662.575	646.386	634.097	630.638
136.5	675.747	672.067	656.393	644.546	641.970
137.0	684.430	681.045	666.475	655.142	652.861
137.5	692.892	690.170	675.600	665.297	663.531
138.0	701.355	698.853	685.092	675.158	673.686
138.5	709.670	707.536	693.996	684.651	683.326

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	717.250	715.925	702.606	694.070	693.113
139.5	724.903	724.167	711.216	702.974	702.238
140.0	732.482	731.746	719.310	712.099	711.289
140.5	739.546	739.546	727.331	720.561	719.825
141.0	746.905	746.905	735.499	728.950	728.140
141.5	753.528	754.264	743.226	737.339	736.603
142.0	760.151	761.622	751.320	744.697	744.697
142.5	766.774	768.245	757.943	752.792	752.056
143.0	773.396	774.868	765.302	760.151	760.151
143.5	779.283	781.491	772.660	767.509	767.509
144.0	785.170	787.378	779.283	774.868	774.868
144.5	791.057	794.001	785.170	782.227	782.227
145.0	796.944	799.888	791.793	788.850	789.585
145.5	802.831	805.774	797.680	795.472	796.944
146.0	807.982	811.661	803.567	802.095	803.567
146.5	813.869	816.812	809.454	808.718	810.926
147.0	819.020	821.964	815.341	814.605	816.812
147.5	823.435	827.850	820.492	820.492	823.435
148.0	829.322	833.002	826.379	826.379	829.322
148.5	834.473	838.153	831.530	831.530	835.209
149.0	839.624	843.304	836.681	836.681	840.360
149.5	844.040	848.455	841.832	841.832	845.511
150.0	849.191	852.870	846.983	846.247	849.926
150.5	853.606	858.021	852.134	850.662	854.342
151.0	858.021	862.436	857.285	855.813	858.757
151.5	863.172	867.587	861.700	860.229	862.436
152.0	867.587	872.002	866.851	864.644	866.116
152.5	872.002	876.418	872.002	869.059	870.531
153.0	876.418	880.833	876.418	873.474	874.210
153.5	880.833	884.512	880.833	877.889	877.889
154.0	884.512	888.927	885.248	882.305	881.569
154.5	888.927	893.343	889.663	886.720	885.984
155.0	892.607	897.022	894.079	891.135	889.663
155.5	896.286	900.701	898.494	895.550	894.079
156.0	899.965	904.381	902.173	899.965	898.494
156.5	903.645	908.060	906.588	904.381	902.909
157.0	906.588	911.739	910.268	908.796	906.588
157.5	910.268	915.419	913.947	913.211	911.003
158.0	913.947	919.098	917.626	916.890	915.419
158.5	917.626	922.041	921.306	921.306	919.098
159.0	920.570	925.721	924.249	924.985	922.777
159.5	923.513	928.664	927.928	929.400	927.193
160.0	926.457	931.608	931.608	933.079	930.872
160.5	929.400	934.551	934.551	936.023	934.551
161.0	932.344	937.495	937.495	939.702	938.231
161.5	935.287	940.438	940.438	942.646	941.174
162.0	938.231	943.382	943.382	945.589	944.853
162.5	941.174	946.325	946.325	948.533	947.797
163.0	944.117	948.533	949.269	951.476	950.740
163.5	947.061	951.476	951.476	953.684	952.948
164.0	950.004	954.420	954.420	955.891	955.891
164.5	952.212	957.363	956.627	958.099	958.099
165.0	955.155	959.571	958.835	960.307	960.307
165.5	957.363	961.778	960.307	962.514	962.514
166.0	960.307	964.722	962.514	963.986	964.722
166.5	962.514	966.929	963.986	966.193	966.193

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	964.722	969.137	966.193	968.401	969.137
167.5	966.929	971.345	967.665	969.873	970.609
168.0	969.137	972.816	969.873	972.080	972.080
168.5	971.345	975.024	971.345	973.552	974.288
169.0	972.816	976.496	972.816	975.760	976.496
169.5	975.024	978.703	974.288	977.231	977.967
170.0	976.496	980.175	975.760	978.703	980.175
170.5	978.703	981.647	977.231	980.175	981.647
171.0	980.175	983.118	977.967	981.647	983.118
171.5	980.911	983.854	979.439	983.118	985.326
172.0	983.118	985.326	980.911	984.590	986.798
172.5	983.854	986.798	981.647	986.062	988.269
173.0	985.326	987.534	983.118	986.798	989.741
173.5	986.798	989.005	983.854	987.534	991.213
174.0	987.534	989.741	984.590	989.005	991.949
174.5	989.005	990.477	986.062	989.741	992.685
175.0	989.741	991.213	986.798	990.477	993.421
175.5	990.477	991.949	986.798	991.213	994.156
176.0	991.949	992.685	988.269	991.949	994.892
176.5	992.685	993.421	988.269	991.949	994.892
177.0	992.685	993.421	989.005	992.685	994.892
177.5	993.421	994.156	989.741	992.685	994.892
178.0	994.156	994.892	989.741	992.685	995.628
178.5	994.892	994.892	990.477	993.421	994.892
179.0	994.892	994.892	990.477	993.421	994.892
179.5	994.892	994.892	991.213	993.421	994.892
180.0	993.421	993.421	993.421	993.421	993.421



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	352.15	N.A.	7.60
0-30	723.48	N.A.	15.70
0-40	1132.61	N.A.	24.60
0-60	1823.18	N.A.	39.60
0-80	2163.65	N.A.	47.00
0-90	2199.51	N.A.	47.70
10-90	2106.66	N.A.	45.70
20-40	780.46	N.A.	16.90
20-50	1159.87	N.A.	25.20
40-70	910.48	N.A.	19.80
60-80	340.46	N.A.	7.40
70-80	120.56	N.A.	2.60
80-90	35.87	N.A.	0.80
90-110	119.63	N.A.	2.60
90-120	309.81	N.A.	6.70
90-130	656.35	N.A.	14.20
90-150	1632.01	N.A.	35.40
90-180	2408.7	N.A.	52.30
110-180	2289.07	N.A.	49.70
0-180	4608.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.85
10-20	259.30
20-30	371.33
30-40	409.12
40-50	379.42
50-60	311.16
60-70	219.91
70-80	120.56
80-90	35.87
90-100	27.20
100-110	92.43
110-120	190.18
120-130	346.54
130-140	480.60
140-150	495.06
150-160	411.85
160-170	270.72
170-180	94.12

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-5-09-L4-835U-L4-835D-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-L4-835U-L4-835D-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

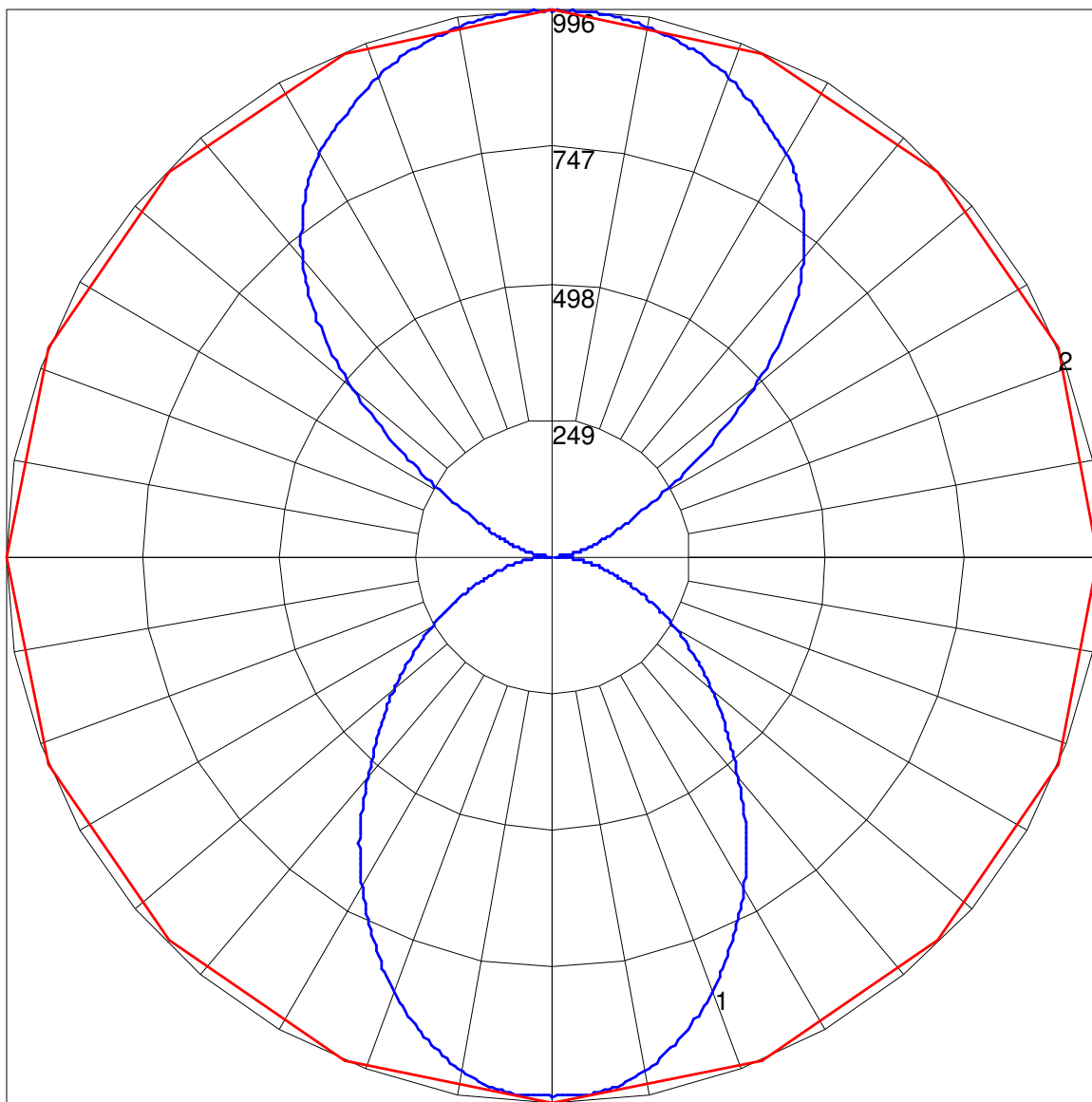
X=2H	Y=2H	9.9	10.7	10.9	11.7	13.0	11.1	11.9	12.0	12.9	14.2
	3H	11.0	11.7	12.0	12.7	14.1	12.6	13.3	13.6	14.3	15.6
	4H	11.3	12.0	12.3	13.0	14.3	13.1	13.8	14.1	14.8	16.1
	6H	11.4	12.1	12.4	13.1	14.4	13.5	14.1	14.5	15.2	16.5
	8H	11.4	12.0	12.4	13.0	14.4	13.6	14.2	14.6	15.3	16.6
	12H	11.4	12.0	12.4	13.0	14.3	13.7	14.3	14.7	15.3	16.7

### UGR Viewed Endwise

4H	2H	10.3	11.0	11.3	12.0	13.3	11.3	12.0	12.3	13.0	14.3
	3H	11.5	12.1	12.5	13.1	14.5	12.9	13.5	13.9	14.5	15.8
	4H	11.9	12.4	12.9	13.5	14.8	13.5	14.0	14.5	15.0	16.4
	6H	12.1	12.6	13.1	13.6	15.0	14.0	14.4	15.0	15.5	16.8
	8H	12.1	12.6	13.2	13.6	15.0	14.1	14.5	15.1	15.6	17.0
	12H	12.1	12.5	13.2	13.5	14.9	14.2	14.6	15.3	15.7	17.0
8H	4H	12.0	12.4	13.1	13.5	14.9	13.5	13.9	14.5	15.0	16.3
	6H	12.3	12.6	13.3	13.7	15.1	14.0	14.4	15.1	15.4	16.8
	8H	12.3	12.7	13.4	13.7	15.1	14.2	14.5	15.3	15.6	17.0
	12H	12.3	12.6	13.4	13.7	15.1	14.3	14.6	15.4	15.7	17.1
12H	4H	12.0	12.4	13.0	13.4	14.8	13.4	13.8	14.5	14.9	16.3
	6H	12.3	12.6	13.3	13.7	15.1	14.0	14.3	15.0	15.4	16.8
	8H	12.3	12.6	13.4	13.7	15.1	14.2	14.5	15.3	15.5	17.0

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 995.628 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.)