



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-03-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] 02/02/2022  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV  
[LUMINAIRE] 2 INCH WIDE DIRECT INDIRECT LED LUMINAIRE  
[MORE] W/FLAT DIFFUSED ACRYLIC LENS  
[LAMP] LED  
[LAMPCAT] HLMX 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	28.1
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)	4.25 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	8000	3205	2416
55	6812	2229	1624
65	5655	1439	1022
75	4165	769	546
85	1997	238	179

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-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>
<b>0.0</b>	742.801	742.801	742.801	742.801	742.801
<b>0.5</b>	740.579	747.246	741.135	741.690	741.690
<b>1.0</b>	740.579	746.690	741.135	741.690	741.690
<b>1.5</b>	740.579	746.690	741.135	741.690	742.246
<b>2.0</b>	740.024	746.690	740.579	741.690	742.246
<b>2.5</b>	740.024	746.135	740.579	742.246	742.246
<b>3.0</b>	739.468	745.579	740.024	741.690	741.690
<b>3.5</b>	738.912	745.024	739.468	741.690	741.690
<b>4.0</b>	737.801	744.468	738.912	741.135	741.135
<b>4.5</b>	737.246	743.913	738.357	740.579	740.579
<b>5.0</b>	736.690	742.801	737.246	740.024	739.468
<b>5.5</b>	735.579	742.246	736.690	738.912	738.357
<b>6.0</b>	734.468	741.135	735.579	737.801	737.246
<b>6.5</b>	733.357	740.024	734.468	736.135	736.135
<b>7.0</b>	732.246	738.912	733.357	734.468	734.468
<b>7.5</b>	730.579	737.801	731.690	732.801	732.246
<b>8.0</b>	729.468	736.135	730.579	730.579	730.023
<b>8.5</b>	727.801	734.468	728.912	728.357	727.801
<b>9.0</b>	726.134	733.357	727.245	726.134	725.579
<b>9.5</b>	724.468	731.690	725.579	723.912	722.801
<b>10.0</b>	722.801	730.023	723.356	721.134	719.467
<b>10.5</b>	721.134	728.357	721.690	718.912	716.134
<b>11.0</b>	719.467	726.134	718.912	716.134	713.356
<b>11.5</b>	717.245	723.912	716.690	712.801	710.023
<b>12.0</b>	715.023	722.245	713.912	710.023	706.134
<b>12.5</b>	712.801	720.023	711.134	706.689	702.800
<b>13.0</b>	710.578	717.801	708.356	703.356	698.911
<b>13.5</b>	708.356	715.023	705.578	700.022	695.022
<b>14.0</b>	705.578	712.801	702.245	696.689	691.689
<b>14.5</b>	703.356	710.023	698.911	692.800	687.800
<b>15.0</b>	700.578	707.245	695.578	688.911	683.355
<b>15.5</b>	697.244	704.467	692.244	685.022	679.466
<b>16.0</b>	694.467	701.689	688.911	681.133	675.022
<b>16.5</b>	691.689	698.356	685.022	676.688	670.577
<b>17.0</b>	688.911	695.022	681.133	672.799	666.688
<b>17.5</b>	685.577	692.244	677.244	668.355	662.243
<b>18.0</b>	682.244	688.355	673.355	663.910	657.799
<b>18.5</b>	679.466	685.022	669.466	660.021	653.354
<b>19.0</b>	676.133	681.688	665.021	655.021	648.354
<b>19.5</b>	672.799	677.799	660.577	650.576	643.909
<b>20.0</b>	668.910	673.910	656.132	646.132	638.909
<b>20.5</b>	665.577	670.577	651.687	641.132	633.354
<b>21.0</b>	662.243	666.132	647.243	635.576	628.909
<b>21.5</b>	658.354	662.243	642.798	630.576	622.798
<b>22.0</b>	654.465	658.354	638.354	625.576	617.797
<b>22.5</b>	650.576	653.910	633.354	620.020	612.797
<b>23.0</b>	646.687	650.021	628.909	614.464	606.686
<b>23.5</b>	642.798	645.576	623.909	608.908	601.130
<b>24.0</b>	638.354	641.132	618.909	603.353	595.019
<b>24.5</b>	634.465	636.687	614.464	597.797	589.463
<b>25.0</b>	629.465	632.242	608.908	591.686	583.352
<b>25.5</b>	625.020	627.798	603.908	586.130	577.796
<b>26.0</b>	620.575	622.798	598.908	580.574	572.240
<b>26.5</b>	615.575	617.797	593.352	575.018	566.129

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	611.131	612.797	588.352	568.907	560.018
27.5	606.130	607.797	582.796	563.351	554.351
28.0	600.575	602.797	577.796	557.240	548.462
28.5	595.575	597.797	571.685	551.629	542.795
29.0	590.019	592.241	566.129	545.851	537.184
29.5	585.019	587.241	560.573	540.073	531.184
30.0	579.463	581.685	554.684	534.461	525.128
30.5	574.463	575.574	548.851	528.572	519.572
31.0	568.907	570.574	542.906	522.628	513.294
31.5	562.796	564.462	536.795	516.628	507.294
32.0	557.796	558.351	530.739	510.461	501.238
32.5	551.740	552.518	524.572	503.961	495.238
33.0	546.351	546.295	518.239	497.683	488.738
33.5	540.517	540.406	512.016	491.405	482.404
34.0	534.628	534.184	505.683	485.015	476.460
34.5	528.906	527.795	499.294	478.460	470.182
35.0	523.183	521.572	493.071	471.904	463.459
35.5	517.461	515.016	486.738	465.293	456.626
36.0	511.683	508.850	480.126	458.848	450.070
36.5	505.794	502.460	473.793	452.126	443.347
37.0	499.849	496.238	467.293	445.514	436.069
37.5	493.516	489.905	460.959	438.792	428.958
38.0	487.571	483.571	454.403	431.958	421.902
38.5	481.293	477.126	448.070	425.069	415.069
39.0	475.015	470.848	441.403	418.458	409.291
39.5	468.626	464.681	434.958	412.791	403.013
40.0	462.348	458.626	428.403	406.346	396.235
40.5	455.903	452.237	421.958	400.179	389.568
41.0	449.737	445.959	416.124	393.513	383.179
41.5	443.514	439.847	410.846	386.957	376.956
42.0	437.125	433.514	404.568	380.679	370.901
42.5	430.792	427.347	398.679	374.568	365.067
43.0	424.625	421.180	392.457	368.623	359.345
43.5	418.736	415.569	386.401	362.845	353.789
44.0	413.069	410.513	380.457	357.234	348.344
44.5	408.735	404.457	374.568	351.733	343.011
45.0	402.624	398.513	368.790	346.344	337.622
45.5	396.624	392.624	363.123	341.011	332.344
46.0	390.735	386.568	357.567	335.788	327.066
46.5	384.790	380.512	352.011	330.511	321.844
47.0	378.957	374.512	346.567	325.288	316.566
47.5	373.012	368.512	341.066	320.066	311.343
48.0	367.178	362.623	335.622	314.788	306.121
48.5	361.345	356.734	330.122	309.565	300.954
49.0	355.511	350.900	324.677	304.232	295.843
49.5	349.733	345.067	319.177	299.065	290.731
50.0	344.011	339.289	313.732	293.898	285.676
50.5	338.233	333.511	308.232	288.731	280.731
51.0	332.455	327.788	302.732	283.620	275.787
51.5	326.733	322.066	297.287	278.509	270.842
52.0	320.955	316.343	291.954	273.453	265.897
52.5	315.177	310.732	286.620	268.453	261.008
53.0	309.399	305.065	281.398	263.453	256.175
53.5	303.676	299.454	276.231	258.453	251.175
54.0	298.010	293.954	271.120	253.564	246.286
54.5	292.343	288.398	266.064	248.563	241.397

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	286.731	282.953	261.008	243.619	236.508
55.5	281.120	277.564	256.008	238.785	231.674
56.0	275.564	272.175	251.008	233.896	226.785
56.5	270.064	266.897	246.008	229.174	222.063
57.0	264.620	261.564	241.008	224.396	217.396
57.5	259.230	256.230	236.008	219.729	212.840
58.0	253.953	250.897	231.063	215.062	208.284
58.5	248.675	245.619	226.118	210.507	203.895
59.0	243.619	240.452	221.285	205.951	199.451
59.5	238.619	235.341	216.396	201.451	195.117
60.0	233.619	230.230	211.618	197.006	190.839
60.5	228.674	225.174	206.895	192.617	186.562
61.0	223.674	220.118	202.229	188.284	182.339
61.5	218.674	215.174	197.562	184.006	178.172
62.0	213.618	210.229	192.951	179.728	174.117
62.5	208.618	205.340	188.395	175.506	170.061
63.0	203.673	200.506	183.950	171.394	166.061
63.5	198.784	195.673	179.450	167.283	162.061
64.0	193.895	190.784	175.006	163.172	158.116
64.5	189.006	185.950	170.617	159.116	154.172
65.0	184.228	181.172	166.228	155.116	150.338
65.5	179.395	176.395	161.894	151.116	146.505
66.0	174.617	171.672	157.616	147.171	142.671
66.5	169.783	166.950	153.283	143.171	138.838
67.0	164.950	162.339	149.005	139.116	134.949
67.5	160.172	157.672	144.782	135.171	131.115
68.0	155.449	153.005	140.560	131.226	127.337
68.5	150.727	148.394	136.282	127.337	123.559
69.0	146.060	143.727	132.115	123.448	119.782
69.5	141.393	139.171	127.893	119.559	116.115
70.0	136.671	134.615	123.782	115.726	112.392
70.5	132.004	130.115	119.670	111.948	108.781
71.0	127.393	125.560	115.559	108.226	105.226
71.5	122.782	121.059	111.559	104.503	101.781
72.0	118.282	116.559	107.726	100.892	98.392
72.5	113.781	112.170	103.837	97.392	95.003
73.0	109.337	107.837	99.948	93.892	91.670
73.5	104.892	103.559	96.114	90.447	88.392
74.0	100.559	99.281	92.336	87.058	85.114
74.5	96.225	95.114	88.669	83.725	81.892
75.0	91.947	91.003	85.003	80.447	78.669
75.5	87.781	86.892	81.391	77.225	75.558
76.0	83.614	82.892	77.836	74.058	72.502
76.5	79.558	78.947	74.336	70.891	69.502
77.0	75.558	75.058	70.891	67.780	66.447
77.5	71.558	71.224	67.502	64.780	63.502
78.0	67.669	67.447	64.224	61.724	60.502
78.5	63.835	63.780	60.946	58.780	57.613
79.0	60.113	60.169	57.835	55.835	54.835
79.5	56.446	56.613	54.724	53.002	52.057
80.0	52.835	53.168	51.724	50.168	49.335
80.5	49.279	49.835	48.724	47.390	46.668
81.0	45.890	46.557	45.779	44.724	44.057
81.5	42.612	43.390	42.890	42.057	41.501
82.0	39.335	40.279	40.057	39.390	38.946
82.5	36.168	37.168	37.335	36.835	36.501

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	33.112	34.223	34.557	34.334	34.001
83.5	30.112	31.334	31.890	31.834	31.612
84.0	27.223	28.612	29.334	29.390	29.279
84.5	24.445	25.945	26.779	27.001	26.890
85.0	21.778	23.334	24.279	24.667	24.556
85.5	19.223	20.834	21.890	22.390	22.334
86.0	16.723	18.334	19.556	20.112	20.112
86.5	14.334	16.001	17.278	17.945	17.945
87.0	12.000	13.667	15.056	15.834	15.834
87.5	9.723	11.445	12.834	13.723	13.723
88.0	7.500	9.278	10.723	11.667	11.723
88.5	5.278	7.167	8.611	9.778	9.834
89.0	3.056	4.833	6.389	7.556	7.278
89.5	1.500	2.889	4.056	4.778	4.500
90.0	1.333	2.111	2.611	2.778	2.278
90.5	1.500	3.111	4.222	4.500	4.445
91.0	3.056	3.833	4.889	5.834	5.889
91.5	5.334	5.111	5.611	6.278	6.334
92.0	7.945	6.889	6.667	7.167	7.167
92.5	10.611	8.834	7.778	8.167	8.167
93.0	13.278	11.000	9.056	9.223	9.167
93.5	16.001	13.167	10.667	10.334	10.278
94.0	18.723	15.334	12.500	11.500	11.389
94.5	21.445	17.612	14.500	12.778	12.556
95.0	24.167	20.001	16.667	14.278	13.778
95.5	26.834	22.501	18.889	15.945	15.223
96.0	29.556	25.112	21.056	17.778	16.834
96.5	32.223	27.779	23.167	19.778	18.556
97.0	34.946	30.501	25.167	21.890	20.556
97.5	37.668	33.168	27.168	24.056	22.612
98.0	40.390	35.890	29.223	26.168	24.723
98.5	43.112	38.557	31.223	28.223	26.834
99.0	45.835	41.279	33.223	30.223	28.890
99.5	48.557	44.001	35.334	32.223	30.945
100.0	51.279	46.724	37.446	34.168	32.890
100.5	54.057	49.502	39.612	36.168	34.890
101.0	56.780	52.279	41.835	38.168	36.890
101.5	59.613	55.057	44.057	40.224	38.890
102.0	62.446	57.891	46.446	42.224	40.946
102.5	65.391	60.780	48.835	44.279	43.001
103.0	68.336	63.724	51.224	46.390	45.001
103.5	71.391	66.724	53.724	48.557	47.113
104.0	74.502	69.780	56.335	50.724	49.279
104.5	77.558	72.891	58.946	53.002	51.502
105.0	80.669	76.058	61.669	55.280	53.779
105.5	83.836	79.280	64.447	57.613	56.057
106.0	87.114	82.558	67.335	60.002	58.446
106.5	90.503	85.947	70.336	62.502	60.835
107.0	94.003	89.447	73.447	65.002	63.335
107.5	97.559	93.003	76.669	67.613	65.835
108.0	101.281	96.670	79.947	70.336	68.447
108.5	105.114	100.448	83.392	73.169	71.113
109.0	109.059	104.337	86.892	76.058	73.891
109.5	113.059	108.281	90.558	79.058	76.780
110.0	117.282	112.392	94.336	82.169	79.725
110.5	121.559	116.670	98.281	85.447	82.780

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

111.0	126.060	121.004	102.392	88.836	85.947
111.5	130.615	125.504	106.670	92.447	89.281
112.0	135.449	130.226	111.115	96.170	92.836
112.5	140.393	135.060	115.726	100.114	96.448
113.0	145.505	140.116	120.559	104.170	100.281
113.5	150.783	145.282	125.560	108.392	104.170
114.0	156.283	150.616	130.726	112.837	108.392
114.5	161.894	156.116	136.115	117.504	112.726
115.0	167.728	161.838	141.671	122.337	117.337
115.5	173.728	167.728	147.505	127.393	122.059
116.0	179.839	173.783	153.505	132.726	127.060
116.5	186.173	180.061	159.727	138.338	132.226
117.0	192.784	186.395	166.172	144.116	137.727
117.5	199.562	193.006	172.783	150.171	143.449
118.0	206.562	199.729	179.617	156.449	149.338
118.5	213.729	206.729	186.673	162.894	155.449
119.0	221.063	213.896	193.840	169.561	161.838
119.5	228.507	221.229	201.284	176.561	168.450
120.0	236.008	228.785	208.951	183.728	175.283
120.5	243.730	236.508	216.785	191.173	182.339
121.0	251.619	244.452	224.841	198.895	189.673
121.5	259.731	252.564	233.063	206.895	197.340
122.0	268.009	260.897	241.508	215.062	205.229
122.5	276.509	269.286	250.119	223.563	213.451
123.0	285.176	277.842	258.842	232.230	221.840
123.5	293.954	286.509	267.731	241.063	230.452
124.0	302.787	295.343	276.731	250.119	239.285
124.5	311.788	304.176	285.842	259.453	248.397
125.0	320.788	313.177	295.121	268.953	257.842
125.5	329.733	322.233	304.454	278.676	267.397
126.0	338.622	331.344	313.843	288.509	277.064
126.5	347.567	340.455	323.233	298.510	286.954
127.0	356.678	349.678	332.788	308.621	297.121
127.5	365.845	358.900	342.289	318.844	307.343
128.0	374.956	368.234	351.789	329.066	317.677
128.5	384.012	377.456	361.234	339.289	328.010
129.0	392.846	386.623	370.567	349.567	338.400
129.5	401.791	395.735	379.901	359.789	348.956
130.0	409.569	404.513	389.124	370.067	359.623
130.5	416.902	412.069	398.235	380.234	370.178
131.0	425.347	420.513	406.346	390.290	380.790
131.5	433.847	428.847	414.735	399.791	391.346
132.0	442.181	437.403	422.458	409.069	400.735
132.5	450.514	445.792	431.069	418.513	411.069
133.0	458.737	453.959	439.625	426.791	421.236
133.5	466.682	462.237	448.014	435.847	429.958
134.0	474.404	470.126	456.348	444.792	439.792
134.5	482.071	478.015	464.404	453.570	449.348
135.0	489.238	485.515	472.460	462.181	458.570
135.5	496.516	492.960	480.349	470.459	467.404
136.0	503.572	500.238	488.016	478.737	476.126
136.5	510.183	507.405	495.571	486.627	484.682
137.0	516.739	514.183	503.183	494.627	492.905
137.5	523.128	521.072	510.072	502.294	500.960
138.0	529.517	527.628	517.239	509.738	508.627
138.5	535.795	534.184	523.961	516.905	515.905

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	541.517	540.517	530.461	524.017	523.294
139.5	547.295	546.740	536.962	530.739	530.184
140.0	553.018	552.462	543.073	537.628	537.017
140.5	558.351	558.351	549.129	544.017	543.462
141.0	563.907	563.907	555.295	550.351	549.740
141.5	568.907	569.463	561.129	556.684	556.129
142.0	573.907	575.018	567.240	562.240	562.240
142.5	578.907	580.019	572.240	568.351	567.796
143.0	583.908	585.019	577.796	573.907	573.907
143.5	588.352	590.019	583.352	579.463	579.463
144.0	592.797	594.463	588.352	585.019	585.019
144.5	597.241	599.464	592.797	590.574	590.574
145.0	601.686	603.908	597.797	595.575	596.130
145.5	606.130	608.353	602.241	600.575	601.686
146.0	610.019	612.797	606.686	605.575	606.686
146.5	614.464	616.686	611.131	610.575	612.242
147.0	618.353	620.575	615.575	615.020	616.686
147.5	621.687	625.020	619.464	619.464	621.687
148.0	626.131	628.909	623.909	623.909	626.131
148.5	630.020	632.798	627.798	627.798	630.576
149.0	633.909	636.687	631.687	631.687	634.465
149.5	637.243	640.576	635.576	635.576	638.354
150.0	641.132	643.909	639.465	638.909	641.687
150.5	644.465	647.798	643.354	642.243	645.021
151.0	647.798	651.132	647.243	646.132	648.354
151.5	651.687	655.021	650.576	649.465	651.132
152.0	655.021	658.354	654.465	652.799	653.910
152.5	658.354	661.688	658.354	656.132	657.243
153.0	661.688	665.021	661.688	659.465	660.021
153.5	665.021	667.799	665.021	662.799	662.799
154.0	667.799	671.133	668.355	666.132	665.577
154.5	671.133	674.466	671.688	669.466	668.910
155.0	673.910	677.244	675.022	672.799	671.688
155.5	676.688	680.022	678.355	676.133	675.022
156.0	679.466	682.800	681.133	679.466	678.355
156.5	682.244	685.577	684.466	682.800	681.688
157.0	684.466	688.355	687.244	686.133	684.466
157.5	687.244	691.133	690.022	689.466	687.800
158.0	690.022	693.911	692.800	692.244	691.133
158.5	692.800	696.133	695.578	695.578	693.911
159.0	695.022	698.911	697.800	698.356	696.689
159.5	697.244	701.133	700.578	701.689	700.022
160.0	699.467	703.356	703.356	704.467	702.800
160.5	701.689	705.578	705.578	706.689	705.578
161.0	703.911	707.800	707.800	709.467	708.356
161.5	706.134	710.023	710.023	711.689	710.578
162.0	708.356	712.245	712.245	713.912	713.356
162.5	710.578	714.467	714.467	716.134	715.578
163.0	712.801	716.134	716.690	718.356	717.801
163.5	715.023	718.356	718.356	720.023	719.467
164.0	717.245	720.579	720.579	721.690	721.690
164.5	718.912	722.801	722.245	723.356	723.356
165.0	721.134	724.468	723.912	725.023	725.023
165.5	722.801	726.134	725.023	726.690	726.690
166.0	725.023	728.357	726.690	727.801	728.357
166.5	726.690	730.023	727.801	729.468	729.468

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	728.357	731.690	729.468	731.134	731.690
167.5	730.023	733.357	730.579	732.246	732.801
168.0	731.690	734.468	732.246	733.912	733.912
168.5	733.357	736.135	733.357	735.023	735.579
169.0	734.468	737.246	734.468	736.690	737.246
169.5	736.135	738.912	735.579	737.801	738.357
170.0	737.246	740.024	736.690	738.912	740.024
170.5	738.912	741.135	737.801	740.024	741.135
171.0	740.024	742.246	738.357	741.135	742.246
171.5	740.579	742.801	739.468	742.246	743.913
172.0	742.246	743.913	740.579	743.357	745.024
172.5	742.801	745.024	741.135	744.468	746.135
173.0	743.913	745.579	742.246	745.024	747.246
173.5	745.024	746.690	742.801	745.579	748.357
174.0	745.579	747.246	743.357	746.690	748.913
174.5	746.690	747.802	744.468	747.246	749.468
175.0	747.246	748.357	745.024	747.802	750.024
175.5	747.802	748.913	745.024	748.357	750.580
176.0	748.913	749.468	746.135	748.913	751.135
176.5	749.468	750.024	746.135	748.913	751.135
177.0	749.468	750.024	746.690	749.468	751.135
177.5	750.024	750.580	747.246	749.468	751.135
178.0	750.580	751.135	747.246	749.468	751.691
178.5	751.135	751.135	747.802	750.024	751.135
179.0	751.135	751.135	747.802	750.024	751.135
179.5	751.135	751.135	748.357	750.024	751.135
180.0	750.024	750.024	750.024	750.024	750.024



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-03-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	265.87	N.A.	7.60
0-30	546.22	N.A.	15.70
0-40	855.11	N.A.	24.60
0-60	1376.49	N.A.	39.60
0-80	1633.53	N.A.	47.00
0-90	1660.61	N.A.	47.70
10-90	1590.51	N.A.	45.70
20-40	589.24	N.A.	16.90
20-50	875.69	N.A.	25.20
40-70	687.41	N.A.	19.80
60-80	257.05	N.A.	7.40
70-80	91.02	N.A.	2.60
80-90	27.08	N.A.	0.80
90-110	90.32	N.A.	2.60
90-120	233.90	N.A.	6.70
90-130	495.54	N.A.	14.20
90-150	1232.15	N.A.	35.40
90-180	1818.55	N.A.	52.30
110-180	1728.23	N.A.	49.70
0-180	3479.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.10
10-20	195.77
20-30	280.35
30-40	308.88
40-50	286.46
50-60	234.92
60-70	166.03
70-80	91.02
80-90	27.08
90-100	20.53
100-110	69.79
110-120	143.58
120-130	261.63
130-140	362.85
140-150	373.77
150-160	310.94
160-170	204.39
170-180	71.06

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-03-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-4-03-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	10.8	10.9	11.8	13.1	11.1	11.9	12.0	12.9	14.2
	3H	11.0	11.8	12.0	12.8	14.1	12.6	13.3	13.6	14.3	15.6
	4H	11.3	12.0	12.3	13.0	14.4	13.1	13.8	14.1	14.8	16.1
	6H	11.4	12.1	12.5	13.1	14.4	13.5	14.1	14.5	15.1	16.5
	8H	11.4	12.1	12.5	13.1	14.4	13.6	14.2	14.6	15.2	16.6
	12H	11.4	12.0	12.4	13.0	14.4	13.7	14.2	14.7	15.3	16.6

### UGR Viewed Endwise

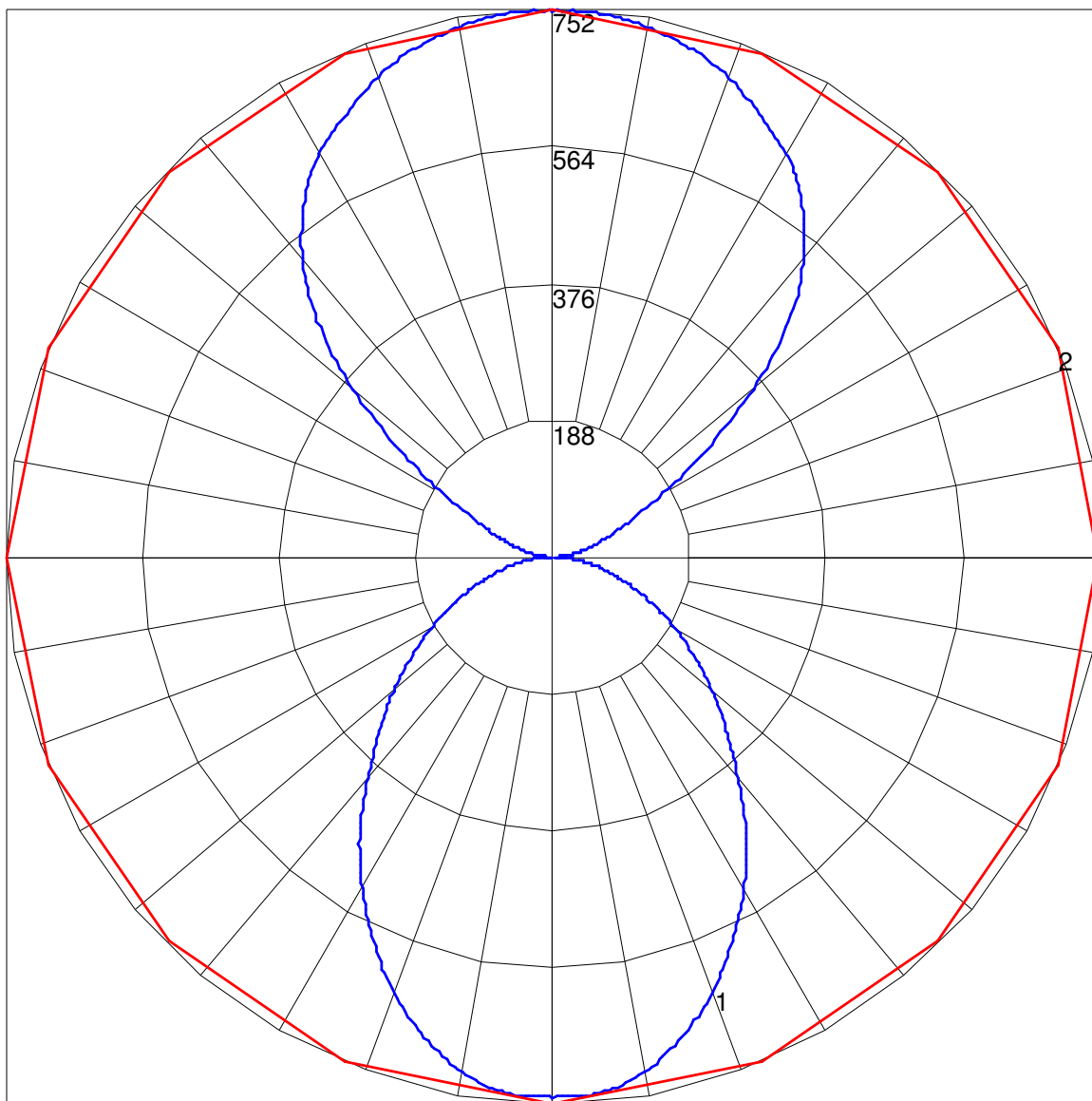
4H	2H	10.3	11.0	11.3	12.0	13.3	11.3	12.0	12.3	13.0	14.3
	3H	11.6	12.2	12.6	13.2	14.5	12.9	13.5	13.9	14.5	15.8
	4H	11.9	12.5	13.0	13.5	14.9	13.5	14.0	14.5	15.0	16.4
	6H	12.1	12.6	13.2	13.6	15.0	13.9	14.4	15.0	15.4	16.8
	8H	12.2	12.6	13.2	13.6	15.0	14.1	14.5	15.1	15.5	16.9
	12H	12.1	12.5	13.2	13.6	15.0	14.2	14.6	15.2	15.6	17.0

8H	4H	12.1	12.5	13.1	13.5	14.9	13.5	13.9	14.5	14.9	16.3
	6H	12.3	12.7	13.4	13.8	15.1	14.0	14.3	15.0	15.4	16.8
	8H	12.4	12.7	13.4	13.8	15.1	14.2	14.5	15.2	15.6	17.0
	12H	12.4	12.7	13.4	13.7	15.2	14.3	14.6	15.4	15.7	17.1

12H	4H	12.0	12.4	13.1	13.5	14.9	13.4	13.8	14.5	14.9	16.3
	6H	12.3	12.6	13.4	13.7	15.1	14.0	14.3	15.0	15.3	16.7
	8H	12.4	12.7	13.5	13.7	15.2	14.2	14.4	15.2	15.5	16.9

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 751.691 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.)