



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-05-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] 02/02/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV  
 [LUMINAIRE] 2 INCH WIDE DIRECT INDIRECT LED LUMINAIRE  
 [MORE] W/FLAT DIFFUSE ACRYLIC LENS  
 [LAMP] LINEAR LED ARRAYS  
 [LAMPCAT] HLMX 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	29.5
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)	4.42 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	7883	3152	2374
55	6719	2193	1595
65	5587	1415	1004
75	4128	757	536
85	1999	234	176

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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	759.028	759.028	759.028	759.028	759.028
0.5	756.757	763.570	757.325	757.893	757.893
1.0	756.757	763.002	757.325	757.893	757.893
1.5	756.757	763.002	757.325	757.893	758.460
2.0	756.190	763.002	756.757	757.893	758.460
2.5	756.190	762.434	756.757	758.460	758.460
3.0	755.622	761.867	756.190	757.893	757.893
3.5	755.054	761.299	755.622	757.893	757.893
4.0	753.919	760.731	755.054	757.325	757.325
4.5	753.351	760.164	754.486	756.757	756.757
5.0	752.783	759.028	753.351	756.190	755.622
5.5	751.648	758.460	752.783	755.054	754.486
6.0	750.513	757.325	751.648	753.919	753.351
6.5	749.377	756.190	750.513	752.216	752.216
7.0	748.242	755.054	749.377	750.513	750.513
7.5	746.539	753.919	747.674	748.809	748.242
8.0	745.403	752.216	746.539	746.539	745.971
8.5	743.700	750.513	744.835	744.268	743.700
9.0	741.997	749.377	743.132	741.997	741.429
9.5	740.294	747.674	741.429	739.726	738.591
10.0	738.591	745.971	739.158	736.887	735.184
10.5	736.887	744.268	737.455	734.617	731.778
11.0	735.184	741.997	734.617	731.778	728.940
11.5	732.914	739.726	732.346	728.372	725.533
12.0	730.643	738.023	729.507	725.533	721.559
12.5	728.372	735.752	726.669	722.127	718.153
13.0	726.101	733.481	723.830	718.721	714.179
13.5	723.830	730.643	720.992	715.315	710.205
14.0	720.992	728.372	717.585	711.908	706.799
14.5	718.721	725.533	714.179	707.934	702.825
15.0	715.882	722.695	710.773	703.960	698.283
15.5	712.476	719.856	707.367	699.986	694.309
16.0	709.637	717.018	703.960	696.012	689.768
16.5	706.799	713.611	699.986	691.471	685.226
17.0	703.960	710.205	696.012	687.497	681.252
17.5	700.554	707.367	692.038	682.955	676.710
18.0	697.148	703.393	688.064	678.413	672.169
18.5	694.309	699.986	684.090	674.439	667.627
19.0	690.903	696.580	679.549	669.330	662.517
19.5	687.497	692.606	675.007	664.788	657.976
20.0	683.523	688.632	670.465	660.247	652.866
20.5	680.116	685.226	665.924	655.137	647.189
21.0	676.710	680.684	661.382	649.460	642.648
21.5	672.736	676.710	656.840	644.351	636.403
22.0	668.762	672.736	652.299	639.241	631.293
22.5	664.788	668.195	647.189	633.564	626.184
23.0	660.814	664.221	642.648	627.887	619.939
23.5	656.840	659.679	637.538	622.210	614.262
24.0	652.299	655.137	632.429	616.533	608.017
24.5	648.325	650.596	627.887	610.856	602.340
25.0	643.215	646.054	622.210	604.611	596.095
25.5	638.674	641.512	617.101	598.934	590.418
26.0	634.132	636.403	611.991	593.257	584.741
26.5	629.023	631.293	606.314	587.580	578.496

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	624.481	626.184	601.205	581.335	572.252
27.5	619.372	621.075	595.528	575.658	566.461
28.0	613.694	615.965	590.418	569.413	560.443
28.5	608.585	610.856	584.174	563.679	554.653
29.0	602.908	605.179	578.496	557.775	548.919
29.5	597.799	600.069	572.819	551.871	542.787
30.0	592.121	594.392	566.802	546.137	536.599
30.5	587.012	588.147	560.841	540.119	530.922
31.0	581.335	583.038	554.766	534.045	524.507
31.5	575.090	576.793	548.521	527.913	518.376
32.0	569.981	570.548	542.333	521.612	512.188
32.5	563.793	564.588	536.032	514.970	506.057
33.0	558.286	558.229	529.560	508.555	499.414
33.5	552.325	552.211	523.201	502.139	492.943
34.0	546.307	545.853	516.730	495.611	486.868
34.5	540.460	539.324	510.201	488.912	480.453
35.0	534.612	532.966	503.843	482.213	473.584
35.5	528.765	526.267	497.371	475.457	466.601
36.0	522.861	519.966	490.615	468.872	459.902
36.5	516.843	513.437	484.143	462.002	453.033
37.0	510.769	507.079	477.501	455.247	445.596
37.5	504.297	500.607	471.029	448.377	438.329
38.0	498.222	494.135	464.330	441.394	431.119
38.5	491.807	487.549	457.858	434.355	424.136
39.0	485.392	481.134	451.046	427.599	418.232
39.5	478.863	474.833	444.460	421.808	411.817
40.0	472.448	468.645	437.761	415.223	404.891
40.5	465.863	462.116	431.176	408.921	398.078
41.0	459.561	455.701	425.215	402.109	391.550
41.5	453.203	449.456	419.821	395.410	385.191
42.0	446.674	442.984	413.406	388.995	379.003
42.5	440.202	436.682	407.389	382.750	373.042
43.0	433.901	430.381	401.030	376.676	367.195
43.5	427.883	424.647	394.842	370.771	361.518
44.0	422.092	419.481	388.768	365.037	355.954
44.5	417.664	413.293	382.750	359.417	350.504
45.0	411.419	407.218	376.846	353.910	344.997
45.5	405.288	401.201	371.055	348.460	339.604
46.0	399.270	395.013	365.378	343.124	334.211
46.5	393.196	388.825	359.701	337.731	328.874
47.0	387.235	382.693	354.137	332.394	323.481
47.5	381.160	376.562	348.517	327.058	318.145
48.0	375.199	370.544	342.954	321.664	312.808
48.5	369.239	364.527	337.333	316.328	307.528
49.0	363.278	358.566	331.770	310.878	302.306
49.5	357.373	352.605	326.149	305.598	297.083
50.0	351.526	346.700	320.586	300.319	291.916
50.5	345.622	340.796	314.965	295.039	286.864
51.0	339.718	334.949	309.345	289.816	281.811
51.5	333.870	329.101	303.782	284.593	276.759
52.0	327.966	323.254	298.332	279.427	271.706
52.5	322.062	317.520	292.882	274.317	266.710
53.0	316.158	311.730	287.545	269.208	261.771
53.5	310.310	305.996	282.265	264.099	256.662
54.0	304.520	300.375	277.042	259.103	251.666
54.5	298.729	294.698	271.876	253.993	246.670

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	292.995	289.135	266.710	248.941	241.674
55.5	287.261	283.628	261.601	244.002	236.735
56.0	281.584	278.121	256.491	239.006	231.739
56.5	275.964	272.728	251.382	234.180	226.914
57.0	270.400	267.278	246.273	229.298	222.145
57.5	264.893	261.828	241.163	224.529	217.490
58.0	259.500	256.378	236.111	219.761	212.834
58.5	254.107	250.985	231.058	215.105	208.350
59.0	248.941	245.705	226.119	210.450	203.808
59.5	243.831	240.482	221.123	205.852	199.380
60.0	238.722	235.259	216.241	201.310	195.008
60.5	233.669	230.093	211.415	196.825	190.637
61.0	228.560	224.927	206.646	192.397	186.322
61.5	223.451	219.874	201.878	188.026	182.065
62.0	218.284	214.821	197.166	183.654	177.920
62.5	213.175	209.826	192.510	179.340	173.776
63.0	208.122	204.887	187.969	175.139	169.688
63.5	203.127	199.947	183.370	170.937	165.601
64.0	198.131	194.952	178.829	166.736	161.570
64.5	193.135	190.013	174.344	162.592	157.540
65.0	188.253	185.130	169.859	158.505	153.622
65.5	183.314	180.248	165.431	154.417	149.705
66.0	178.431	175.422	161.059	150.386	145.788
66.5	173.492	170.597	156.631	146.299	141.871
67.0	168.553	165.885	152.260	142.155	137.897
67.5	163.671	161.116	147.945	138.124	133.980
68.0	158.845	156.347	143.631	134.093	130.119
68.5	154.020	151.635	139.259	130.119	126.259
69.0	149.251	146.867	135.001	126.145	122.398
69.5	144.482	142.211	130.687	122.171	118.651
70.0	139.657	137.556	126.486	118.254	114.848
70.5	134.888	132.958	122.285	114.394	111.158
71.0	130.176	128.302	118.084	110.590	107.524
71.5	125.464	123.704	113.996	106.786	104.004
72.0	120.865	119.106	110.079	103.096	100.541
72.5	116.267	114.621	106.105	99.520	97.078
73.0	111.725	110.192	102.131	95.943	93.672
73.5	107.184	105.821	98.214	92.423	90.323
74.0	102.755	101.450	94.353	88.960	86.973
74.5	98.327	97.192	90.607	85.554	83.680
75.0	93.956	92.991	86.860	82.204	80.388
75.5	89.698	88.790	83.170	78.912	77.209
76.0	85.440	84.702	79.536	75.676	74.086
76.5	81.296	80.672	75.960	72.440	71.021
77.0	77.209	76.698	72.440	69.261	67.898
77.5	73.121	72.780	68.977	66.195	64.889
78.0	69.147	68.920	65.627	63.073	61.824
78.5	65.230	65.173	62.278	60.064	58.872
79.0	61.426	61.483	59.099	57.055	56.033
79.5	57.679	57.850	55.919	54.160	53.194
80.0	53.989	54.330	52.854	51.264	50.413
80.5	50.356	50.924	49.788	48.426	47.688
81.0	46.893	47.574	46.779	45.701	45.019
81.5	43.543	44.338	43.827	42.976	42.408
82.0	40.194	41.159	40.932	40.251	39.796
82.5	36.958	37.980	38.150	37.639	37.299

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	33.836	34.971	35.312	35.084	34.744
83.5	30.770	32.019	32.587	32.530	32.303
84.0	27.818	29.237	29.975	30.032	29.918
84.5	24.979	26.512	27.364	27.591	27.477
85.0	22.254	23.844	24.809	25.206	25.093
85.5	19.643	21.289	22.368	22.879	22.822
86.0	17.088	18.734	19.983	20.551	20.551
86.5	14.647	16.350	17.656	18.337	18.337
87.0	12.263	13.966	15.385	16.180	16.180
87.5	9.935	11.695	13.114	14.022	14.022
88.0	7.664	9.481	10.957	11.922	11.979
88.5	5.393	7.323	8.800	9.992	10.048
89.0	3.122	4.939	6.529	7.721	7.437
89.5	1.533	2.952	4.144	4.882	4.598
90.0	1.363	2.157	2.668	2.839	2.328
90.5	1.533	3.179	4.315	4.598	4.542
91.0	3.122	3.917	4.996	5.961	6.018
91.5	5.450	5.223	5.734	6.415	6.472
92.0	8.118	7.040	6.813	7.323	7.323
92.5	10.843	9.027	7.948	8.345	8.345
93.0	13.568	11.241	9.254	9.424	9.367
93.5	16.350	13.455	10.900	10.559	10.503
94.0	19.132	15.669	12.773	11.752	11.638
94.5	21.914	17.996	14.817	13.057	12.830
95.0	24.695	20.438	17.031	14.590	14.079
95.5	27.420	22.992	19.302	16.293	15.555
96.0	30.202	25.660	21.516	18.167	17.202
96.5	32.927	28.385	23.674	20.210	18.962
97.0	35.709	31.167	25.717	22.368	21.005
97.5	38.491	33.892	27.761	24.582	23.106
98.0	41.273	36.674	29.862	26.739	25.263
98.5	44.054	39.399	31.905	28.840	27.420
99.0	46.836	42.181	33.949	30.883	29.521
99.5	49.618	44.963	36.106	32.927	31.621
100.0	52.400	47.744	38.264	34.914	33.608
100.5	55.238	50.583	40.478	36.958	35.652
101.0	58.020	53.422	42.749	39.002	37.696
101.5	60.915	56.260	45.019	41.102	39.740
102.0	63.811	59.155	47.461	43.146	41.840
102.5	66.819	62.107	49.902	45.246	43.941
103.0	69.828	65.116	52.343	47.404	45.985
103.5	72.951	68.182	54.898	49.618	48.142
104.0	76.130	71.304	57.566	51.832	50.356
104.5	79.252	74.484	60.234	54.160	52.627
105.0	82.431	77.719	63.016	56.487	54.954
105.5	85.667	81.012	65.854	58.872	57.282
106.0	89.017	84.362	68.806	61.313	59.723
106.5	92.480	87.825	71.872	63.867	62.164
107.0	96.057	91.401	75.051	66.422	64.719
107.5	99.690	95.035	78.344	69.090	67.274
108.0	103.494	98.782	81.693	71.872	69.942
108.5	107.411	102.642	85.213	74.767	72.667
109.0	111.441	106.616	88.790	77.719	75.505
109.5	115.529	110.647	92.537	80.785	78.458
110.0	119.844	114.848	96.397	83.964	81.466
110.5	124.215	119.219	100.428	87.314	84.589

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111.0	128.813	123.647	104.629	90.777	87.825
111.5	133.469	128.246	109.000	94.467	91.231
112.0	138.408	133.071	113.542	98.271	94.864
112.5	143.460	138.010	118.254	102.301	98.554
113.0	148.683	143.176	123.193	106.446	102.472
113.5	154.076	148.456	128.302	110.760	106.446
114.0	159.697	153.906	133.582	115.302	110.760
114.5	165.431	159.526	139.089	120.071	115.188
115.0	171.392	165.374	144.766	125.010	119.900
115.5	177.523	171.392	150.727	130.176	124.726
116.0	183.768	177.580	156.858	135.626	129.835
116.5	190.240	183.995	163.217	141.360	135.115
117.0	196.995	190.467	169.802	147.264	140.735
117.5	203.921	197.222	176.558	153.452	146.583
118.0	211.075	204.092	183.541	159.867	152.600
118.5	218.398	211.245	190.751	166.453	158.845
119.0	225.892	218.568	198.074	173.265	165.374
119.5	233.499	226.062	205.681	180.418	172.130
120.0	241.163	233.783	213.516	187.742	179.112
120.5	249.054	241.674	221.520	195.349	186.322
121.0	257.116	249.792	229.752	203.240	193.816
121.5	265.404	258.081	238.154	211.415	201.651
122.0	273.863	266.597	246.784	219.761	209.712
122.5	282.549	275.169	255.583	228.446	218.114
123.0	291.406	283.912	264.496	237.303	226.687
123.5	300.375	292.768	273.579	246.329	235.486
124.0	309.402	301.795	282.776	255.583	244.513
124.5	318.599	310.821	292.087	265.121	253.823
125.0	327.796	320.018	301.568	274.828	263.474
125.5	336.936	329.272	311.105	284.763	273.239
126.0	346.019	338.582	320.699	294.812	283.117
126.5	355.159	347.893	330.294	305.031	293.222
127.0	364.470	357.317	340.058	315.363	303.611
127.5	373.837	366.741	349.766	325.809	314.057
128.0	383.147	376.278	359.474	336.255	324.617
128.5	392.401	385.702	369.125	346.700	335.176
129.0	401.428	395.069	378.663	357.203	345.792
129.5	410.568	404.380	388.200	367.649	356.579
130.0	418.516	413.350	397.624	378.152	367.479
130.5	426.010	421.070	406.934	388.541	378.265
131.0	434.639	429.700	415.223	398.816	389.108
131.5	443.325	438.215	423.795	408.524	399.895
132.0	451.840	446.958	431.687	418.005	409.489
132.5	460.356	455.530	440.486	427.656	420.049
133.0	468.758	463.876	449.229	436.115	430.438
133.5	476.876	472.335	457.801	445.368	439.351
134.0	484.768	480.396	466.317	454.509	449.399
134.5	492.602	488.458	474.549	463.478	459.164
135.0	499.925	496.122	482.781	472.278	468.588
135.5	507.362	503.729	490.842	480.737	477.614
136.0	514.572	511.166	498.676	489.196	486.527
136.5	521.328	518.489	506.397	497.257	495.270
137.0	528.027	525.416	514.175	505.432	503.672
137.5	534.556	532.455	521.214	513.267	511.904
138.0	541.084	539.154	528.538	520.874	519.738
138.5	547.499	545.853	535.407	528.197	527.175

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	553.347	552.325	542.049	535.464	534.726
139.5	559.251	558.683	548.692	542.333	541.766
140.0	565.098	564.531	554.936	549.373	548.748
140.5	570.548	570.548	561.124	555.902	555.334
141.0	576.226	576.226	567.426	562.373	561.749
141.5	581.335	581.903	573.387	568.845	568.278
142.0	586.444	587.580	579.632	574.522	574.522
142.5	591.554	592.689	584.741	580.767	580.200
143.0	596.663	597.799	590.418	586.444	586.444
143.5	601.205	602.908	596.095	592.121	592.121
144.0	605.746	607.450	601.205	597.799	597.799
144.5	610.288	612.559	605.746	603.476	603.476
145.0	614.830	617.101	610.856	608.585	609.153
145.5	619.372	621.642	615.398	613.694	614.830
146.0	623.345	626.184	619.939	618.804	619.939
146.5	627.887	630.158	624.481	623.913	625.616
147.0	631.861	634.132	629.023	628.455	630.158
147.5	635.267	638.674	632.997	632.997	635.267
148.0	639.809	642.648	637.538	637.538	639.809
148.5	643.783	646.622	641.512	641.512	644.351
149.0	647.757	650.596	645.486	645.486	648.325
149.5	651.163	654.570	649.460	649.460	652.299
150.0	655.137	657.976	653.434	652.866	655.705
150.5	658.544	661.950	657.408	656.273	659.111
151.0	661.950	665.356	661.382	660.247	662.517
151.5	665.924	669.330	664.788	663.653	665.356
152.0	669.330	672.736	668.762	667.059	668.195
152.5	672.736	676.143	672.736	670.465	671.601
153.0	676.143	679.549	676.143	673.872	674.439
153.5	679.549	682.387	679.549	677.278	677.278
154.0	682.387	685.794	682.955	680.684	680.116
154.5	685.794	689.200	686.361	684.090	683.523
155.0	688.632	692.038	689.768	687.497	686.361
155.5	691.471	694.877	693.174	690.903	689.768
156.0	694.309	697.715	696.012	694.309	693.174
156.5	697.148	700.554	699.419	697.715	696.580
157.0	699.419	703.393	702.257	701.122	699.419
157.5	702.257	706.231	705.096	704.528	702.825
158.0	705.096	709.070	707.934	707.367	706.231
158.5	707.934	711.341	710.773	710.773	709.070
159.0	710.205	714.179	713.044	713.611	711.908
159.5	712.476	716.450	715.882	717.018	715.315
160.0	714.747	718.721	718.721	719.856	718.153
160.5	717.018	720.992	720.992	722.127	720.992
161.0	719.288	723.262	723.262	724.966	723.830
161.5	721.559	725.533	725.533	727.236	726.101
162.0	723.830	727.804	727.804	729.507	728.940
162.5	726.101	730.075	730.075	731.778	731.210
163.0	728.372	731.778	732.346	734.049	733.481
163.5	730.643	734.049	734.049	735.752	735.184
164.0	732.914	736.320	736.320	737.455	737.455
164.5	734.617	738.591	738.023	739.158	739.158
165.0	736.887	740.294	739.726	740.861	740.861
165.5	738.591	741.997	740.861	742.565	742.565
166.0	740.861	744.268	742.565	743.700	744.268
166.5	742.565	745.971	743.700	745.403	745.403

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	744.268	747.674	745.403	747.106	747.674
167.5	745.971	749.377	746.539	748.242	748.809
168.0	747.674	750.513	748.242	749.945	749.945
168.5	749.377	752.216	749.377	751.080	751.648
169.0	750.513	753.351	750.513	752.783	753.351
169.5	752.216	755.054	751.648	753.919	754.486
170.0	753.351	756.190	752.783	755.054	756.190
170.5	755.054	757.325	753.919	756.190	757.325
171.0	756.190	758.460	754.486	757.325	758.460
171.5	756.757	759.028	755.622	758.460	760.164
172.0	758.460	760.164	756.757	759.596	761.299
172.5	759.028	761.299	757.325	760.731	762.434
173.0	760.164	761.867	758.460	761.299	763.570
173.5	761.299	763.002	759.028	761.867	764.705
174.0	761.867	763.570	759.596	763.002	765.273
174.5	763.002	764.138	760.731	763.570	765.841
175.0	763.570	764.705	761.299	764.138	766.408
175.5	764.138	765.273	761.299	764.705	766.976
176.0	765.273	765.841	762.434	765.273	767.544
176.5	765.841	766.408	762.434	765.273	767.544
177.0	765.841	766.408	763.002	765.841	767.544
177.5	766.408	766.976	763.570	765.841	767.544
178.0	766.976	767.544	763.570	765.841	768.112
178.5	767.544	767.544	764.138	766.408	767.544
179.0	767.544	767.544	764.138	766.408	767.544
179.5	767.544	767.544	764.705	766.408	767.544
180.0	766.408	766.408	766.408	766.408	766.408



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-05-L4-835U-L4-835D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	271.68	N.A.	7.60
0-30	558.16	N.A.	15.70
0-40	873.79	N.A.	24.60
0-60	1406.56	N.A.	39.60
0-80	1669.22	N.A.	47.00
0-90	1696.89	N.A.	47.70
10-90	1625.26	N.A.	45.70
20-40	602.11	N.A.	16.90
20-50	894.82	N.A.	25.20
40-70	702.42	N.A.	19.80
60-80	262.66	N.A.	7.40
70-80	93.01	N.A.	2.60
80-90	27.67	N.A.	0.80
90-110	92.29	N.A.	2.60
90-120	239.01	N.A.	6.70
90-130	506.36	N.A.	14.20
90-150	1259.07	N.A.	35.40
90-180	1858.27	N.A.	52.30
110-180	1765.98	N.A.	49.70
0-180	3555.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.63
10-20	200.05
20-30	286.48
30-40	315.63
40-50	292.72
50-60	240.05
60-70	169.66
70-80	93.01
80-90	27.67
90-100	20.98
100-110	71.31
110-120	146.72
120-130	267.35
130-140	370.77
140-150	381.93
150-160	317.73
160-170	208.86
170-180	72.62

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-05-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-4-05-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

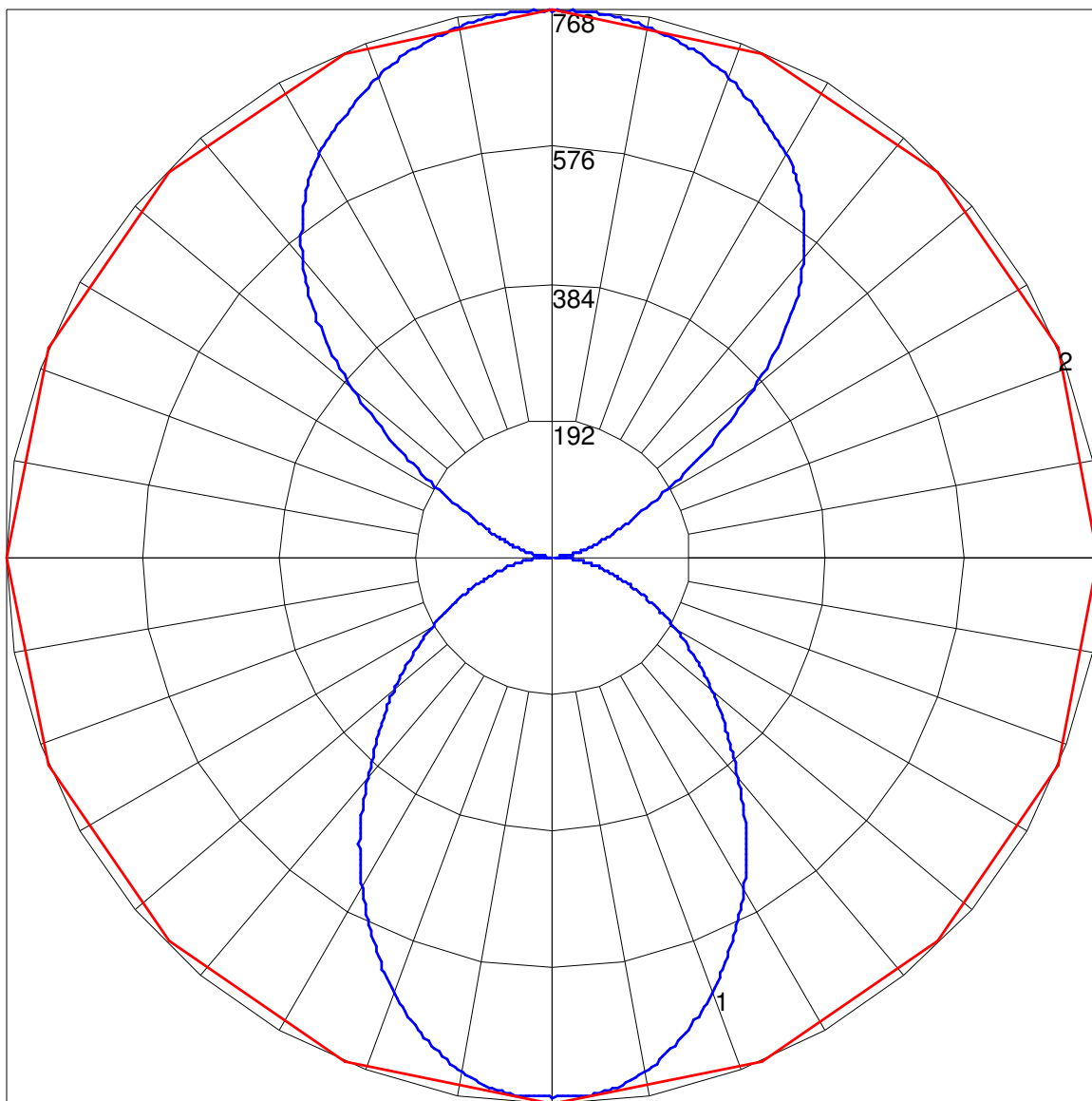
X=2H	Y=2H	9.9	10.7	10.9	11.7	13.0	11.0	11.9	12.0	12.9	14.2
	3H	11.0	11.7	12.0	12.7	14.1	12.5	13.3	13.5	14.3	15.6
	4H	11.3	12.0	12.3	13.0	14.3	13.1	13.8	14.1	14.8	16.1
	6H	11.4	12.1	12.4	13.1	14.4	13.4	14.1	14.4	15.1	16.4
	8H	11.4	12.0	12.4	13.1	14.4	13.6	14.2	14.6	15.2	16.5
	12H	11.4	12.0	12.4	13.0	14.4	13.6	14.2	14.7	15.2	16.6

### UGR Viewed Endwise

4H	2H	10.3	11.0	11.3	12.0	13.3	11.2	11.9	12.2	12.9	14.3
	3H	11.5	12.1	12.5	13.1	14.5	12.8	13.4	13.9	14.5	15.8
	4H	11.9	12.4	12.9	13.5	14.8	13.4	14.0	14.5	15.0	16.4
	6H	12.1	12.6	13.1	13.6	15.0	13.9	14.4	14.9	15.4	16.8
	8H	12.1	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	14.9	14.2	14.5	15.2	15.6	17.0
8H	4H	12.0	12.4	13.1	13.5	14.9	13.5	13.9	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	12.7	13.4	13.7	15.1	14.2	14.5	15.2	15.5	16.9
	12H	12.3	12.6	13.4	13.7	15.1	14.3	14.6	15.4	15.6	17.1
12H	4H	12.0	12.4	13.0	13.4	14.8	13.4	13.8	14.5	14.8	16.2
	6H	12.3	12.6	13.3	13.7	15.1	13.9	14.2	15.0	15.3	16.7
	8H	12.3	12.6	13.4	13.7	15.1	14.1	14.4	15.2	15.5	16.9

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 768.112 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.)