



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-2-00-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-2-00-L4-835U-L4-835D-F-F-DIM-UNV
 [LUMINAIRE] 2 INCH WIDE DIRECT INDIRECT 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	1586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	13.6
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)	2.00 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	7165	3029	2341
55	5928	2099	1573
65	4715	1350	990
75	3216	719	529
85	1263	221	174

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-2-00-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	338.627	338.627	338.627	338.627	338.627
0.5	337.614	340.653	337.867	338.120	338.120
1.0	337.614	340.400	337.867	338.120	338.120
1.5	337.614	340.400	337.867	338.120	338.374
2.0	337.361	340.400	337.614	338.120	338.374
2.5	337.361	340.147	337.614	338.374	338.374
3.0	337.107	339.893	337.361	338.120	338.120
3.5	336.854	339.640	337.107	338.120	338.120
4.0	336.347	339.387	336.854	337.867	337.867
4.5	336.094	339.133	336.601	337.614	337.614
5.0	335.841	338.627	336.094	337.361	337.107
5.5	335.334	338.374	335.841	336.854	336.601
6.0	334.828	337.867	335.334	336.347	336.094
6.5	334.321	337.361	334.828	335.588	335.588
7.0	333.815	336.854	334.321	334.828	334.828
7.5	333.055	336.347	333.561	334.068	333.815
8.0	332.548	335.588	333.055	333.055	332.802
8.5	331.789	334.828	332.295	332.042	331.789
9.0	331.029	334.321	331.535	331.029	330.775
9.5	330.269	333.561	330.775	330.016	329.509
10.0	329.509	332.802	329.762	328.749	327.989
10.5	328.749	332.042	329.003	327.736	326.470
11.0	327.989	331.029	327.736	326.470	325.203
11.5	326.976	330.016	326.723	324.950	323.684
12.0	325.963	329.256	325.457	323.684	321.911
12.5	324.950	328.243	324.190	322.164	320.391
13.0	323.937	327.230	322.924	320.644	318.618
13.5	322.924	325.963	321.658	319.125	316.845
14.0	321.658	324.950	320.138	317.605	315.326
14.5	320.644	323.684	318.618	315.832	313.553
15.0	319.378	322.417	317.099	314.059	311.527
15.5	317.858	321.151	315.579	312.286	309.754
16.0	316.592	319.885	314.059	310.514	307.728
16.5	315.326	318.365	312.286	308.487	305.701
17.0	314.059	316.845	310.514	306.714	303.928
17.5	312.540	315.579	308.741	304.688	301.902
18.0	311.020	313.806	306.968	302.662	299.876
18.5	309.754	312.286	305.195	300.889	297.850
19.0	308.234	310.767	303.169	298.610	295.570
19.5	306.714	308.994	301.142	296.583	293.544
20.0	304.942	307.221	299.116	294.557	291.265
20.5	303.422	305.701	297.090	292.278	288.732
21.0	301.902	303.675	295.064	289.745	286.706
21.5	300.129	301.902	293.038	287.466	283.920
22.0	298.356	300.129	291.011	285.186	281.640
22.5	296.583	298.103	288.732	282.653	279.361
23.0	294.811	296.330	286.706	280.121	276.575
23.5	293.038	294.304	284.426	277.588	274.042
24.0	291.011	292.278	282.147	275.055	271.256
24.5	289.239	290.252	280.121	272.522	268.723
25.0	286.959	288.225	277.588	269.736	265.937
25.5	284.933	286.199	275.309	267.204	263.405
26.0	282.907	283.920	273.029	264.671	260.872
26.5	280.627	281.640	270.496	262.138	258.086

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	278.601	279.361	268.217	259.352	255.300
27.5	276.322	277.081	265.684	256.820	252.716
28.0	273.789	274.802	263.405	254.034	250.032
28.5	271.509	272.522	260.619	251.475	247.448
29.0	268.977	269.990	258.086	248.841	244.890
29.5	266.697	267.710	255.553	246.207	242.155
30.0	264.164	265.178	252.868	243.649	239.394
30.5	261.885	262.392	250.209	240.965	236.862
31.0	259.352	260.112	247.499	238.255	234.000
31.5	256.566	257.326	244.713	235.519	231.264
32.0	254.287	254.540	241.952	232.708	228.504
32.5	251.526	251.881	239.141	229.745	225.768
33.0	249.069	249.044	236.254	226.883	222.805
33.5	246.410	246.359	233.417	224.021	219.918
34.0	243.725	243.523	230.530	221.108	217.208
34.5	241.117	240.610	227.617	218.119	214.346
35.0	238.508	237.773	224.780	215.131	211.281
35.5	235.899	234.785	221.893	212.117	208.166
36.0	233.265	231.973	218.879	209.179	205.177
36.5	230.580	229.061	215.992	206.114	202.112
37.0	227.870	226.224	213.029	203.100	198.795
37.5	224.983	223.337	210.141	200.036	195.553
38.0	222.273	220.449	207.153	196.920	192.336
38.5	219.411	217.511	204.265	193.780	189.221
39.0	216.549	214.649	201.226	190.766	186.587
39.5	213.636	211.838	198.288	188.182	183.725
40.0	210.774	209.077	195.299	185.244	180.635
40.5	207.836	206.165	192.361	182.433	177.596
41.0	205.025	203.303	189.702	179.394	174.683
41.5	202.188	200.517	187.296	176.405	171.846
42.0	199.276	197.629	184.434	173.543	169.086
42.5	196.388	194.818	181.749	170.757	166.426
43.0	193.577	192.007	178.913	168.047	163.817
43.5	190.892	189.449	176.152	165.413	161.285
44.0	188.309	187.144	173.442	162.855	158.803
44.5	186.333	184.383	170.757	160.348	156.371
45.0	183.547	181.673	168.123	157.891	153.914
45.5	180.812	178.989	165.540	155.459	151.508
46.0	178.127	176.228	163.007	153.079	149.102
46.5	175.417	173.467	160.474	150.673	146.721
47.0	172.758	170.732	157.992	148.292	144.315
47.5	170.048	167.996	155.485	145.911	141.935
48.0	167.389	165.312	153.003	143.505	139.554
48.5	164.729	162.627	150.495	141.124	137.198
49.0	162.070	159.968	148.013	138.693	134.868
49.5	159.436	157.308	145.506	136.337	132.538
50.0	156.827	154.674	143.024	133.982	130.233
50.5	154.193	152.040	140.516	131.626	127.979
51.0	151.559	149.431	138.009	129.296	125.725
51.5	148.950	146.823	135.527	126.966	123.471
52.0	146.316	144.214	133.095	124.661	121.217
52.5	143.682	141.656	130.664	122.382	118.988
53.0	141.048	139.073	128.283	120.102	116.785
53.5	138.439	136.515	125.928	117.823	114.505
54.0	135.856	134.007	123.598	115.594	112.276
54.5	133.273	131.474	121.293	113.315	110.047

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

55.0	130.715	128.992	118.988	111.061	107.819
55.5	128.156	126.536	116.709	108.857	105.615
56.0	125.624	124.079	114.429	106.628	103.386
56.5	123.116	121.673	112.150	104.475	101.233
57.0	120.634	119.241	109.870	102.297	99.106
57.5	118.178	116.810	107.591	100.170	97.029
58.0	115.771	114.378	105.337	98.042	94.952
58.5	113.365	111.972	103.082	95.965	92.951
59.0	111.061	109.617	100.879	93.889	90.925
59.5	108.781	107.287	98.650	91.837	88.950
60.0	106.502	104.957	96.472	89.811	87.000
60.5	104.247	102.652	94.319	87.810	85.049
61.0	101.968	100.347	92.192	85.834	83.124
61.5	99.689	98.093	90.064	83.884	81.225
62.0	97.384	95.839	87.962	81.934	79.376
62.5	95.104	93.610	85.885	80.009	77.527
63.0	92.850	91.406	83.859	78.135	75.704
63.5	90.621	89.203	81.807	76.261	73.880
64.0	88.393	86.974	79.781	74.386	72.082
64.5	86.164	84.771	77.780	72.538	70.283
65.0	83.986	82.593	75.779	70.714	68.536
65.5	81.782	80.414	73.804	68.890	66.788
66.0	79.604	78.262	71.854	67.092	65.041
66.5	77.400	76.109	69.878	65.269	63.293
67.0	75.197	74.007	67.928	63.420	61.520
67.5	73.019	71.879	66.003	61.621	59.773
68.0	70.866	69.752	64.078	59.823	58.050
68.5	68.713	67.649	62.128	58.050	56.328
69.0	66.586	65.522	60.228	56.277	54.606
69.5	64.458	63.445	58.304	54.504	52.934
70.0	62.305	61.368	56.429	52.757	51.237
70.5	60.178	59.317	54.555	51.035	49.591
71.0	58.076	57.240	52.681	49.338	47.970
71.5	55.973	55.188	50.857	47.641	46.400
72.0	53.922	53.137	49.110	45.995	44.855
72.5	51.870	51.136	47.337	44.399	43.310
73.0	49.844	49.160	45.564	42.803	41.790
73.5	47.818	47.210	43.816	41.233	40.296
74.0	45.843	45.260	42.094	39.688	38.802
74.5	43.867	43.360	40.422	38.168	37.333
75.0	41.917	41.486	38.751	36.674	35.864
75.5	40.017	39.612	37.105	35.205	34.445
76.0	38.118	37.788	35.484	33.761	33.052
76.5	36.269	35.990	33.888	32.318	31.685
77.0	34.445	34.217	32.318	30.899	30.292
77.5	32.622	32.470	30.773	29.532	28.949
78.0	30.849	30.747	29.278	28.139	27.582
78.5	29.101	29.076	27.784	26.796	26.264
79.0	27.404	27.430	26.366	25.454	24.998
79.5	25.733	25.809	24.947	24.162	23.732
80.0	24.086	24.238	23.580	22.871	22.491
80.5	22.465	22.719	22.212	21.604	21.275
81.0	20.920	21.224	20.870	20.389	20.085
81.5	19.426	19.781	19.553	19.173	18.920
82.0	17.932	18.362	18.261	17.957	17.754
82.5	16.488	16.944	17.020	16.792	16.640

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	15.095	15.602	15.754	15.652	15.500
83.5	13.727	14.285	14.538	14.513	14.411
84.0	12.410	13.044	13.373	13.398	13.348
84.5	11.144	11.828	12.208	12.309	12.258
85.0	9.928	10.637	11.068	11.245	11.195
85.5	8.763	9.498	9.979	10.207	10.182
86.0	7.624	8.358	8.915	9.169	9.169
86.5	6.534	7.294	7.877	8.181	8.181
87.0	5.471	6.231	6.864	7.218	7.218
87.5	4.432	5.217	5.851	6.256	6.256
88.0	3.419	4.230	4.888	5.319	5.344
88.5	2.406	3.267	3.926	4.458	4.483
89.0	1.393	2.203	2.913	3.445	3.318
89.5	0.684	1.317	1.849	2.178	2.052
90.0	0.608	0.962	1.190	1.266	1.038
90.5	0.684	1.418	1.925	2.052	2.026
91.0	1.393	1.748	2.229	2.659	2.685
91.5	2.431	2.330	2.558	2.862	2.887
92.0	3.622	3.141	3.039	3.267	3.267
92.5	4.838	4.027	3.546	3.723	3.723
93.0	6.053	5.015	4.128	4.204	4.179
93.5	7.294	6.003	4.863	4.711	4.686
94.0	8.535	6.990	5.699	5.243	5.192
94.5	9.776	8.029	6.610	5.825	5.724
95.0	11.017	9.118	7.598	6.509	6.281
95.5	12.233	10.258	8.611	7.269	6.940
96.0	13.474	11.448	9.599	8.105	7.674
96.5	14.690	12.664	10.562	9.017	8.459
97.0	15.931	13.905	11.473	9.979	9.371
97.5	17.172	15.120	12.385	10.967	10.308
98.0	18.413	16.361	13.322	11.929	11.271
98.5	19.654	17.577	14.234	12.866	12.233
99.0	20.895	18.818	15.146	13.778	13.170
99.5	22.136	20.059	16.108	14.690	14.107
100.0	23.377	21.300	17.071	15.576	14.994
100.5	24.644	22.567	18.058	16.488	15.906
101.0	25.885	23.833	19.072	17.400	16.817
101.5	27.176	25.099	20.085	18.337	17.729
102.0	28.468	26.391	21.174	19.249	18.666
102.5	29.810	27.708	22.263	20.186	19.603
103.0	31.153	29.050	23.352	21.148	20.515
103.5	32.546	30.418	24.492	22.136	21.478
104.0	33.964	31.811	25.682	23.124	22.465
104.5	35.357	33.230	26.872	24.162	23.478
105.0	36.775	34.673	28.113	25.201	24.517
105.5	38.219	36.142	29.380	26.264	25.555
106.0	39.713	37.636	30.697	27.354	26.644
106.5	41.258	39.181	32.064	28.493	27.733
107.0	42.854	40.777	33.483	29.633	28.873
107.5	44.475	42.398	34.952	30.823	30.013
108.0	46.172	44.070	36.446	32.064	31.203
108.5	47.919	45.792	38.016	33.356	32.419
109.0	49.718	47.565	39.612	34.673	33.685
109.5	51.541	49.363	41.284	36.041	35.002
110.0	53.466	51.237	43.006	37.459	36.345
110.5	55.416	53.187	44.804	38.953	37.738

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	57.468	55.163	46.678	40.498	39.181
111.5	59.545	57.215	48.629	42.145	40.701
112.0	61.748	59.367	50.655	43.842	42.322
112.5	64.002	61.571	52.757	45.640	43.968
113.0	66.332	63.876	54.960	47.489	45.716
113.5	68.738	66.231	57.240	49.414	47.489
114.0	71.246	68.662	59.595	51.440	49.414
114.5	73.804	71.170	62.052	53.567	51.389
115.0	76.463	73.779	64.585	55.771	53.491
115.5	79.199	76.463	67.244	58.076	55.644
116.0	81.985	79.224	69.980	60.507	57.924
116.5	84.872	82.086	72.816	63.065	60.279
117.0	87.886	84.973	75.754	65.699	62.787
117.5	90.976	87.987	78.768	68.460	65.395
118.0	94.167	91.052	81.883	71.322	68.080
118.5	97.434	94.243	85.100	74.260	70.866
119.0	100.778	97.510	88.367	77.299	73.779
119.5	104.171	100.854	91.761	80.490	76.793
120.0	107.591	104.298	95.256	83.758	79.908
120.5	111.111	107.819	98.827	87.151	83.124
121.0	114.708	111.440	102.500	90.672	86.468
121.5	118.405	115.138	106.248	94.319	89.963
122.0	122.179	118.937	110.098	98.042	93.559
122.5	126.054	122.762	114.024	101.917	97.308
123.0	130.005	126.662	118.000	105.868	101.132
123.5	134.007	130.613	122.053	109.895	105.058
124.0	138.034	134.640	126.156	114.024	109.085
124.5	142.137	138.667	130.309	118.279	113.239
125.0	146.240	142.770	134.539	122.610	117.544
125.5	150.318	146.899	138.794	127.042	121.901
126.0	154.370	151.052	143.074	131.525	126.308
126.5	158.448	155.206	147.355	136.084	130.816
127.0	162.602	159.410	151.711	140.694	135.451
127.5	166.781	163.615	156.042	145.354	140.111
128.0	170.934	167.870	160.373	150.014	144.822
128.5	175.063	172.074	164.679	154.674	149.533
129.0	179.090	176.253	168.934	159.360	154.269
129.5	183.168	180.407	173.189	164.020	159.081
130.0	186.713	184.409	177.393	168.706	163.944
130.5	190.057	187.853	181.547	173.341	168.756
131.0	193.906	191.703	185.244	177.925	173.594
131.5	197.781	195.502	189.069	182.256	178.406
132.0	201.581	199.402	192.589	186.485	182.686
132.5	205.380	203.227	196.515	190.791	187.397
133.0	209.128	206.950	200.415	194.565	192.032
133.5	212.750	210.724	204.240	198.693	196.009
134.0	216.270	214.320	208.039	202.771	200.491
134.5	219.766	217.917	211.711	206.773	204.848
135.0	223.033	221.336	215.384	210.698	209.052
135.5	226.351	224.730	218.980	214.472	213.079
136.0	229.567	228.048	222.476	218.246	217.056
136.5	232.581	231.315	225.920	221.842	220.956
137.0	235.570	234.405	229.390	225.490	224.704
137.5	238.483	237.545	232.531	228.985	228.377
138.0	241.395	240.534	235.798	232.379	231.872
138.5	244.257	243.523	238.862	235.646	235.190

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	246.866	246.410	241.826	238.888	238.558
139.5	249.500	249.247	244.789	241.952	241.699
140.0	252.109	251.855	247.575	245.093	244.814
140.5	254.540	254.540	250.336	248.006	247.752
141.0	257.073	257.073	253.147	250.893	250.614
141.5	259.352	259.606	255.806	253.780	253.527
142.0	261.632	262.138	258.592	256.313	256.313
142.5	263.911	264.418	260.872	259.099	258.846
143.0	266.191	266.697	263.405	261.632	261.632
143.5	268.217	268.977	265.937	264.164	264.164
144.0	270.243	271.003	268.217	266.697	266.697
144.5	272.269	273.282	270.243	269.230	269.230
145.0	274.295	275.309	272.522	271.509	271.763
145.5	276.322	277.335	274.549	273.789	274.295
146.0	278.095	279.361	276.575	276.068	276.575
146.5	280.121	281.134	278.601	278.348	279.108
147.0	281.894	282.907	280.627	280.374	281.134
147.5	283.413	284.933	282.400	282.400	283.413
148.0	285.439	286.706	284.426	284.426	285.439
148.5	287.212	288.479	286.199	286.199	287.466
149.0	288.985	290.252	287.972	287.972	289.239
149.5	290.505	292.025	289.745	289.745	291.011
150.0	292.278	293.544	291.518	291.265	292.531
150.5	293.797	295.317	293.291	292.784	294.051
151.0	295.317	296.837	295.064	294.557	295.570
151.5	297.090	298.610	296.583	296.077	296.837
152.0	298.610	300.129	298.356	297.597	298.103
152.5	300.129	301.649	300.129	299.116	299.623
153.0	301.649	303.169	301.649	300.636	300.889
153.5	303.169	304.435	303.169	302.156	302.156
154.0	304.435	305.955	304.688	303.675	303.422
154.5	305.955	307.474	306.208	305.195	304.942
155.0	307.221	308.741	307.728	306.714	306.208
155.5	308.487	310.007	309.247	308.234	307.728
156.0	309.754	311.273	310.514	309.754	309.247
156.5	311.020	312.540	312.033	311.273	310.767
157.0	312.033	313.806	313.300	312.793	312.033
157.5	313.300	315.072	314.566	314.313	313.553
158.0	314.566	316.339	315.832	315.579	315.072
158.5	315.832	317.352	317.099	317.099	316.339
159.0	316.845	318.618	318.112	318.365	317.605
159.5	317.858	319.631	319.378	319.885	319.125
160.0	318.872	320.644	320.644	321.151	320.391
160.5	319.885	321.658	321.658	322.164	321.658
161.0	320.898	322.671	322.671	323.431	322.924
161.5	321.911	323.684	323.684	324.444	323.937
162.0	322.924	324.697	324.697	325.457	325.203
162.5	323.937	325.710	325.710	326.470	326.217
163.0	324.950	326.470	326.723	327.483	327.230
163.5	325.963	327.483	327.483	328.243	327.989
164.0	326.976	328.496	328.496	329.003	329.003
164.5	327.736	329.509	329.256	329.762	329.762
165.0	328.749	330.269	330.016	330.522	330.522
165.5	329.509	331.029	330.522	331.282	331.282
166.0	330.522	332.042	331.282	331.789	332.042
166.5	331.282	332.802	331.789	332.548	332.548

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	332.042	333.561	332.548	333.308	333.561
167.5	332.802	334.321	333.055	333.815	334.068
168.0	333.561	334.828	333.815	334.575	334.575
168.5	334.321	335.588	334.321	335.081	335.334
169.0	334.828	336.094	334.828	335.841	336.094
169.5	335.588	336.854	335.334	336.347	336.601
170.0	336.094	337.361	335.841	336.854	337.361
170.5	336.854	337.867	336.347	337.361	337.867
171.0	337.361	338.374	336.601	337.867	338.374
171.5	337.614	338.627	337.107	338.374	339.133
172.0	338.374	339.133	337.614	338.880	339.640
172.5	338.627	339.640	337.867	339.387	340.147
173.0	339.133	339.893	338.374	339.640	340.653
173.5	339.640	340.400	338.627	339.893	341.160
174.0	339.893	340.653	338.880	340.400	341.413
174.5	340.400	340.906	339.387	340.653	341.666
175.0	340.653	341.160	339.640	340.906	341.919
175.5	340.906	341.413	339.640	341.160	342.173
176.0	341.413	341.666	340.147	341.413	342.426
176.5	341.666	341.919	340.147	341.413	342.426
177.0	341.666	341.919	340.400	341.666	342.426
177.5	341.919	342.173	340.653	341.666	342.426
178.0	342.173	342.426	340.653	341.666	342.679
178.5	342.426	342.426	340.906	341.919	342.426
179.0	342.426	342.426	340.906	341.919	342.426
179.5	342.426	342.426	341.160	341.919	342.426
180.0	341.919	341.919	341.919	341.919	341.919

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-00-L4-835U-L4-835D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	121.20	N.A.	7.60
0-30	249.01	N.A.	15.70
0-40	389.83	N.A.	24.60
0-60	627.51	N.A.	39.60
0-80	744.69	N.A.	47.00
0-90	757.04	N.A.	47.70
10-90	725.08	N.A.	45.70
20-40	268.62	N.A.	16.90
20-50	399.21	N.A.	25.20
40-70	313.37	N.A.	19.80
60-80	117.18	N.A.	7.40
70-80	41.49	N.A.	2.60
80-90	12.34	N.A.	0.80
90-110	41.17	N.A.	2.60
90-120	106.63	N.A.	6.70
90-130	225.90	N.A.	14.20
90-150	561.71	N.A.	35.40
90-180	829.03	N.A.	52.30
110-180	787.86	N.A.	49.70
0-180	1586.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.96
10-20	89.25
20-30	127.81
30-40	140.81
40-50	130.59
50-60	107.10
60-70	75.69
70-80	41.49
80-90	12.34
90-100	9.36
100-110	31.81
110-120	65.46
120-130	119.27
130-140	165.41
140-150	170.39
150-160	141.75
160-170	93.18
170-180	32.40

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-2-00-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-2-00-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

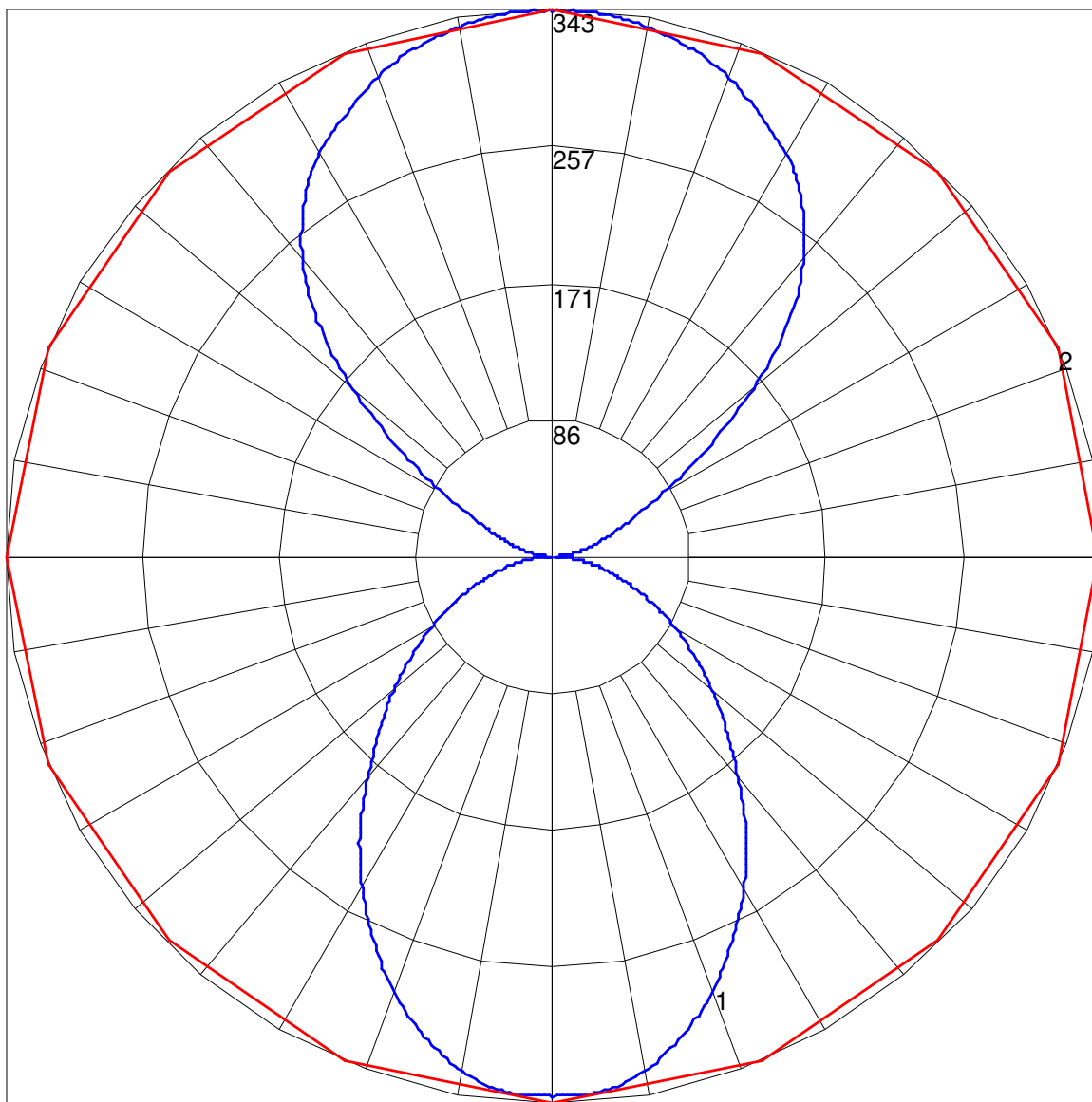
X=2H	Y=2H	9.8	10.7	10.8	11.6	12.9	10.8	11.6	11.7	12.6	13.9
	3H	10.9	11.7	11.9	12.7	14.0	12.2	13.0	13.2	14.0	15.3
	4H	11.2	11.9	12.2	12.9	14.2	12.7	13.4	13.7	14.4	15.8
	6H	11.3	12.0	12.3	13.0	14.3	13.1	13.7	14.1	14.7	16.1
	8H	11.3	12.0	12.4	13.0	14.3	13.2	13.8	14.2	14.8	16.1
	12H	11.3	11.9	12.3	12.9	14.3	13.2	13.8	14.2	14.8	16.2

UGR Viewed Endwise

4H	2H	10.2	10.9	11.2	11.9	13.2	11.0	11.7	12.0	12.7	14.0
	3H	11.4	12.0	12.4	13.1	14.4	12.5	13.1	13.6	14.2	15.5
	4H	11.8	12.4	12.8	13.4	14.7	13.1	13.7	14.1	14.7	16.0
	6H	12.0	12.5	13.1	13.5	14.9	13.5	14.0	14.6	15.0	16.4
	8H	12.0	12.5	13.1	13.5	14.9	13.7	14.1	14.7	15.1	16.5
	12H	12.0	12.4	13.1	13.5	14.8	13.8	14.1	14.8	15.2	16.6
8H	4H	11.9	12.3	13.0	13.4	14.8	13.1	13.6	14.2	14.6	16.0
	6H	12.2	12.5	13.2	13.6	15.0	13.6	14.0	14.7	15.1	16.4
	8H	12.2	12.6	13.3	13.6	15.0	13.8	14.1	14.9	15.2	16.6
	12H	12.2	12.5	13.3	13.6	15.0	13.9	14.2	15.0	15.2	16.7
12H	4H	11.9	12.3	12.9	13.3	14.7	13.1	13.5	14.1	14.5	15.9
	6H	12.2	12.5	13.2	13.6	15.0	13.6	13.9	14.7	15.0	16.4
	8H	12.2	12.5	13.3	13.6	15.0	13.8	14.0	14.8	15.1	16.5

Maximum UGR = 16.7

POLAR GRAPH



Maximum Candela = 342.679 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.)