



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-2-10-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-2-10-L4-835U-L4-835D-F-F-DIM-UNV
 [LUMINAIRE] 2 INCH WIDE DIRECT INDIRECT LED LUMINAIRE
 [MORE] W/FLAT DIFFUSE 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	2246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	14.2
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)	2.83 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	7477	3070	2340
55	6281	2132	1573
65	5109	1374	989
75	3624	733	528
85	1565	226	174

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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	479.542	479.542	479.542	479.542	479.542
0.5	478.107	482.411	478.466	478.824	478.824
1.0	478.107	482.052	478.466	478.824	478.824
1.5	478.107	482.052	478.466	478.824	479.183
2.0	477.748	482.052	478.107	478.824	479.183
2.5	477.748	481.694	478.107	479.183	479.183
3.0	477.390	481.335	477.748	478.824	478.824
3.5	477.031	480.976	477.390	478.824	478.824
4.0	476.314	480.618	477.031	478.466	478.466
4.5	475.955	480.259	476.672	478.107	478.107
5.0	475.596	479.542	475.955	477.748	477.390
5.5	474.879	479.183	475.596	477.031	476.672
6.0	474.162	478.466	474.879	476.314	475.955
6.5	473.444	477.748	474.162	475.238	475.238
7.0	472.727	477.031	473.444	474.162	474.162
7.5	471.651	476.314	472.368	473.086	472.727
8.0	470.934	475.238	471.651	471.651	471.292
8.5	469.858	474.162	470.575	470.216	469.858
9.0	468.782	473.444	469.499	468.782	468.423
9.5	467.706	472.368	468.423	467.347	466.630
10.0	466.630	471.292	466.988	465.554	464.478
10.5	465.554	470.216	465.912	464.119	462.326
11.0	464.478	468.782	464.119	462.326	460.532
11.5	463.043	467.347	462.684	460.174	458.380
12.0	461.608	466.271	460.891	458.380	455.870
12.5	460.174	464.836	459.098	456.228	453.718
13.0	458.739	463.402	457.304	454.076	451.207
13.5	457.304	461.608	455.511	451.924	448.696
14.0	455.511	460.174	453.359	449.772	446.544
14.5	454.076	458.380	451.207	447.261	444.033
15.0	452.283	456.587	449.055	444.751	441.164
15.5	450.131	454.794	446.903	442.240	438.653
16.0	448.337	453.000	444.751	439.729	435.784
16.5	446.544	450.848	442.240	436.860	432.915
17.0	444.751	448.696	439.729	434.349	430.404
17.5	442.599	446.903	437.219	431.480	427.535
18.0	440.447	444.392	434.708	428.611	424.665
18.5	438.653	442.240	432.197	426.100	421.796
19.0	436.501	440.088	429.328	422.872	418.568
19.5	434.349	437.577	426.459	420.003	415.699
20.0	431.839	435.067	423.589	417.133	412.470
20.5	429.687	432.915	420.720	413.905	408.884
21.0	427.535	430.045	417.851	410.318	406.014
21.5	425.024	427.535	414.981	407.090	402.069
22.0	422.513	425.024	412.112	403.862	398.841
22.5	420.003	422.155	408.884	400.276	395.613
23.0	417.492	419.644	406.014	396.689	391.668
23.5	414.981	416.775	402.786	393.102	388.081
24.0	412.112	413.905	399.558	389.516	384.136
24.5	409.601	411.036	396.689	385.929	380.549
25.0	406.373	408.166	393.102	381.984	376.603
25.5	403.504	405.297	389.874	378.397	373.017
26.0	400.634	402.069	386.646	374.810	369.430
26.5	397.406	398.841	383.060	371.223	365.485

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	394.537	395.613	379.832	367.278	361.539
27.5	391.309	392.385	376.245	363.691	357.881
28.0	387.722	389.157	373.017	359.746	354.079
28.5	384.494	385.929	369.071	356.123	350.421
29.0	380.908	382.342	365.485	352.393	346.798
29.5	377.680	379.114	361.898	348.663	342.924
30.0	374.093	375.527	358.096	345.041	339.015
30.5	370.865	371.582	354.330	341.239	335.428
31.0	367.278	368.354	350.492	337.401	331.375
31.5	363.333	364.409	346.547	333.527	327.502
32.0	360.105	360.463	342.637	329.546	323.592
32.5	356.195	356.697	338.656	325.350	319.718
33.0	352.716	352.680	334.567	321.297	315.522
33.5	348.950	348.878	330.550	317.244	311.433
34.0	345.148	344.861	326.461	313.119	307.595
34.5	341.454	340.736	322.337	308.887	303.542
35.0	337.760	336.719	318.320	304.654	299.203
35.5	334.065	332.487	314.231	300.386	294.791
36.0	330.335	328.506	309.963	296.226	290.559
36.5	326.533	324.381	305.874	291.886	286.219
37.0	322.695	320.364	301.677	287.617	281.520
37.5	318.607	316.275	297.588	283.278	276.929
38.0	314.769	312.186	293.356	278.866	272.374
38.5	310.716	308.026	289.267	274.418	267.962
39.0	306.663	303.973	284.963	270.150	264.232
39.5	302.538	299.992	280.803	266.492	260.179
40.0	298.485	296.082	276.570	262.331	255.803
40.5	294.325	291.957	272.410	258.350	251.499
41.0	290.343	287.904	268.644	254.046	247.375
41.5	286.326	283.959	265.236	249.814	243.358
42.0	282.202	279.870	261.183	245.761	239.448
42.5	278.113	275.889	257.382	241.815	235.682
43.0	274.131	271.908	253.364	237.978	231.988
43.5	270.330	268.285	249.455	234.247	228.401
44.0	266.671	265.021	245.617	230.625	224.886
44.5	263.874	261.112	241.815	227.074	221.443
45.0	259.928	257.274	238.085	223.595	217.964
45.5	256.055	253.472	234.427	220.152	214.556
46.0	252.253	249.563	230.840	216.780	211.149
46.5	248.415	245.653	227.253	213.373	207.778
47.0	244.649	241.779	223.738	210.001	204.370
47.5	240.811	237.906	220.188	206.630	200.999
48.0	237.045	234.104	216.673	203.222	197.627
48.5	233.279	230.302	213.122	199.851	194.292
49.0	229.513	226.536	209.607	196.408	190.992
49.5	225.783	222.770	206.056	193.072	187.692
50.0	222.088	219.040	202.541	189.736	184.428
50.5	218.358	215.310	198.990	186.401	181.236
51.0	214.628	211.615	195.439	183.101	178.044
51.5	210.934	207.921	191.924	179.801	174.852
52.0	207.204	204.227	188.481	176.537	171.659
52.5	203.473	200.604	185.038	173.309	168.503
53.0	199.743	196.946	181.666	170.081	165.383
53.5	196.049	193.323	178.331	166.853	162.155
54.0	192.391	189.772	175.031	163.697	158.998
54.5	188.732	186.186	171.767	160.469	155.842

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55.0	185.110	182.671	168.503	157.277	152.686
55.5	181.487	179.192	165.275	154.156	149.565
56.0	177.900	175.712	162.047	151.000	146.409
56.5	174.349	172.305	158.819	147.951	143.360
57.0	170.835	168.862	155.591	144.867	140.348
57.5	167.355	165.419	152.363	141.854	137.406
58.0	163.948	161.975	149.171	138.841	134.465
58.5	160.541	158.568	145.979	135.900	131.632
59.0	157.277	155.232	142.858	132.959	128.763
59.5	154.049	151.933	139.702	130.054	125.965
60.0	150.821	148.633	136.617	127.184	123.203
60.5	147.629	145.369	133.569	124.351	120.441
61.0	144.401	142.105	130.556	121.553	117.715
61.5	141.173	138.913	127.543	118.792	115.025
62.0	137.909	135.721	124.566	116.030	112.407
62.5	134.681	132.564	121.625	113.304	109.789
63.0	131.488	129.444	118.756	110.650	107.206
63.5	128.332	126.324	115.850	107.996	104.624
64.0	125.176	123.167	112.981	105.341	102.077
64.5	122.020	120.047	110.148	102.723	99.531
65.0	118.935	116.962	107.314	100.141	97.056
65.5	115.815	113.878	104.516	97.558	94.581
66.0	112.730	110.829	101.755	95.012	92.106
66.5	109.610	107.780	98.957	92.429	89.632
67.0	106.489	104.803	96.195	89.811	87.121
67.5	103.405	101.791	93.469	87.264	84.646
68.0	100.356	98.778	90.744	84.718	82.207
68.5	97.307	95.801	87.982	82.207	79.768
69.0	94.294	92.788	85.292	79.696	77.329
69.5	91.282	89.847	82.566	77.186	74.962
70.0	88.233	86.906	79.912	74.711	72.559
70.5	85.220	84.001	77.258	72.272	70.228
71.0	82.243	81.059	74.603	69.869	67.932
71.5	79.266	78.154	72.021	67.466	65.708
72.0	76.361	75.249	69.546	65.134	63.520
72.5	73.456	72.415	67.035	62.875	61.333
73.0	70.586	69.618	64.525	60.615	59.181
73.5	67.717	66.856	62.050	58.391	57.064
74.0	64.919	64.094	59.611	56.204	54.948
74.5	62.122	61.404	57.244	54.052	52.868
75.0	59.360	58.750	54.877	51.935	50.788
75.5	56.670	56.096	52.545	49.855	48.779
76.0	53.980	53.514	50.250	47.811	46.806
76.5	51.362	50.967	47.990	45.766	44.870
77.0	48.779	48.456	45.766	43.758	42.897
77.5	46.197	45.981	43.578	41.821	40.996
78.0	43.686	43.543	41.462	39.848	39.059
78.5	41.211	41.175	39.346	37.947	37.194
79.0	38.808	38.844	37.338	36.046	35.401
79.5	36.441	36.548	35.329	34.217	33.607
80.0	34.110	34.325	33.392	32.388	31.850
80.5	31.814	32.173	31.455	30.595	30.128
81.0	29.626	30.057	29.554	28.873	28.443
81.5	27.510	28.012	27.689	27.151	26.793
82.0	25.394	26.004	25.860	25.430	25.143
82.5	23.349	23.995	24.103	23.780	23.565

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	21.377	22.094	22.309	22.166	21.951
83.5	19.440	20.229	20.588	20.552	20.408
84.0	17.575	18.472	18.938	18.974	18.902
84.5	15.781	16.750	17.288	17.431	17.360
85.0	14.060	15.064	15.674	15.925	15.853
85.5	12.410	13.450	14.132	14.454	14.419
86.0	10.796	11.836	12.625	12.984	12.984
86.5	9.254	10.330	11.155	11.585	11.585
87.0	7.747	8.823	9.720	10.222	10.222
87.5	6.277	7.389	8.285	8.859	8.859
88.0	4.842	5.990	6.922	7.532	7.568
88.5	3.407	4.627	5.559	6.313	6.348
89.0	1.973	3.120	4.125	4.878	4.699
89.5	0.968	1.865	2.618	3.085	2.905
90.0	0.861	1.363	1.686	1.793	1.471
90.5	0.968	2.009	2.726	2.905	2.869
91.0	1.973	2.475	3.156	3.766	3.802
91.5	3.443	3.300	3.623	4.053	4.089
92.0	5.129	4.448	4.304	4.627	4.627
92.5	6.851	5.703	5.021	5.272	5.272
93.0	8.572	7.102	5.846	5.954	5.918
93.5	10.330	8.500	6.886	6.671	6.635
94.0	12.087	9.899	8.070	7.424	7.353
94.5	13.845	11.370	9.361	8.249	8.106
95.0	15.602	12.912	10.760	9.218	8.895
95.5	17.324	14.526	12.195	10.294	9.828
96.0	19.081	16.212	13.594	11.477	10.868
96.5	20.803	17.933	14.957	12.769	11.980
97.0	22.560	19.691	16.248	14.132	13.271
97.5	24.318	21.413	17.539	15.530	14.598
98.0	26.075	23.170	18.866	16.893	15.961
98.5	27.833	24.892	20.157	18.220	17.324
99.0	29.590	26.649	21.448	19.512	18.651
99.5	31.348	28.407	22.811	20.803	19.978
100.0	33.105	30.164	24.174	22.058	21.233
100.5	34.899	31.957	25.573	23.349	22.524
101.0	36.656	33.751	27.008	24.641	23.816
101.5	38.485	35.544	28.443	25.968	25.107
102.0	40.315	37.373	29.985	27.259	26.434
102.5	42.215	39.238	31.527	28.586	27.761
103.0	44.116	41.139	33.069	29.949	29.052
103.5	46.089	43.076	34.683	31.348	30.415
104.0	48.098	45.049	36.369	32.747	31.814
104.5	50.070	47.058	38.055	34.217	33.249
105.0	52.079	49.102	39.812	35.688	34.719
105.5	54.123	51.182	41.606	37.194	36.190
106.0	56.239	53.298	43.471	38.736	37.732
106.5	58.427	55.486	45.408	40.350	39.274
107.0	60.687	57.746	47.416	41.964	40.888
107.5	62.982	60.041	49.496	43.650	42.502
108.0	65.386	62.409	51.613	45.408	44.188
108.5	67.860	64.848	53.836	47.237	45.910
109.0	70.407	67.358	56.096	49.102	47.703
109.5	72.989	69.905	58.463	51.039	49.568
110.0	75.715	72.559	60.902	53.047	51.469
110.5	78.477	75.321	63.449	55.163	53.442

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111.0	81.382	78.118	66.103	57.351	55.486
111.5	84.323	81.024	68.865	59.683	57.638
112.0	87.444	84.072	71.734	62.086	59.934
112.5	90.636	87.193	74.711	64.632	62.265
113.0	93.936	90.457	77.831	67.251	64.740
113.5	97.343	93.792	81.059	69.977	67.251
114.0	100.894	97.235	84.395	72.846	69.977
114.5	104.516	100.786	87.874	75.859	72.774
115.0	108.282	104.481	91.461	78.979	75.751
115.5	112.156	108.282	95.227	82.243	78.800
116.0	116.101	112.192	99.101	85.686	82.028
116.5	120.190	116.245	103.118	89.309	85.363
117.0	124.458	120.334	107.278	93.039	88.914
117.5	128.834	124.602	111.546	96.948	92.609
118.0	133.354	128.942	115.958	101.001	96.410
118.5	137.980	133.461	120.513	105.162	100.356
119.0	142.715	138.088	125.140	109.466	104.481
119.5	147.521	142.822	129.946	113.985	108.749
120.0	152.363	147.700	134.896	118.612	113.160
120.5	157.349	152.686	139.953	123.418	117.715
121.0	162.442	157.815	145.154	128.404	122.450
121.5	167.678	163.051	150.462	133.569	127.400
122.0	173.022	168.431	155.914	138.841	132.493
122.5	178.510	173.847	161.473	144.329	137.801
123.0	184.105	179.371	167.104	149.924	143.217
123.5	189.772	184.966	172.843	155.627	148.776
124.0	195.475	190.669	178.654	161.473	154.479
124.5	201.286	196.372	184.536	167.499	160.361
125.0	207.096	202.182	190.526	173.632	166.459
125.5	212.871	208.029	196.551	179.909	172.628
126.0	218.609	213.911	202.613	186.257	178.869
126.5	224.384	219.793	208.674	192.713	185.253
127.0	230.266	225.747	214.843	199.241	191.817
127.5	236.184	231.701	220.977	205.841	198.416
128.0	242.066	237.726	227.110	212.440	205.088
128.5	247.913	243.680	233.207	219.040	211.759
129.0	253.616	249.598	239.233	225.675	218.466
129.5	259.390	255.481	245.259	232.275	225.281
130.0	264.412	261.148	251.212	238.910	232.167
130.5	269.146	266.026	257.095	245.474	238.982
131.0	274.598	271.477	262.331	251.966	245.832
131.5	280.085	276.857	267.747	258.099	252.647
132.0	285.465	282.381	272.733	264.089	258.709
132.5	290.845	287.797	278.292	270.186	265.380
133.0	296.154	293.069	283.816	275.530	271.944
133.5	301.283	298.413	289.231	281.377	277.575
134.0	306.268	303.507	294.612	287.151	283.923
134.5	311.218	308.600	299.812	292.818	290.092
135.0	315.845	313.442	305.013	298.378	296.046
135.5	320.543	318.248	310.106	303.722	301.749
136.0	325.098	322.946	315.056	309.066	307.380
136.5	329.367	327.573	319.934	314.159	312.904
137.0	333.599	331.949	324.847	319.324	318.212
137.5	337.724	336.397	329.295	324.274	323.413
138.0	341.848	340.629	333.922	329.080	328.362
138.5	345.901	344.861	338.262	333.707	333.061

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	349.596	348.950	342.458	338.298	337.831
139.5	353.326	352.967	346.655	342.637	342.279
140.0	357.020	356.661	350.600	347.085	346.690
140.5	360.463	360.463	354.509	351.210	350.851
141.0	364.050	364.050	358.491	355.298	354.904
141.5	367.278	367.637	362.257	359.387	359.029
142.0	370.506	371.223	366.202	362.974	362.974
142.5	373.734	374.451	369.430	366.919	366.561
143.0	376.962	377.680	373.017	370.506	370.506
143.5	379.832	380.908	376.603	374.093	374.093
144.0	382.701	383.777	379.832	377.680	377.680
144.5	385.570	387.005	382.701	381.266	381.266
145.0	388.440	389.874	385.929	384.494	384.853
145.5	391.309	392.744	388.798	387.722	388.440
146.0	393.820	395.613	391.668	390.950	391.668
146.5	396.689	398.124	394.537	394.178	395.254
147.0	399.200	400.634	397.406	397.048	398.124
147.5	401.352	403.504	399.917	399.917	401.352
148.0	404.221	406.014	402.786	402.786	404.221
148.5	406.732	408.525	405.297	405.297	407.090
149.0	409.242	411.036	407.808	407.808	409.601
149.5	411.394	413.547	410.318	410.318	412.112
150.0	413.905	415.699	412.829	412.470	414.264
150.5	416.057	418.209	415.340	414.623	416.416
151.0	418.209	420.361	417.851	417.133	418.568
151.5	420.720	422.872	420.003	419.285	420.361
152.0	422.872	425.024	422.513	421.437	422.155
152.5	425.024	427.176	425.024	423.589	424.307
153.0	427.176	429.328	427.176	425.741	426.100
153.5	429.328	431.121	429.328	427.893	427.893
154.0	431.121	433.273	431.480	430.045	429.687
154.5	433.273	435.425	433.632	432.197	431.839
155.0	435.067	437.219	435.784	434.349	433.632
155.5	436.860	439.012	437.936	436.501	435.784
156.0	438.653	440.805	439.729	438.653	437.936
156.5	440.447	442.599	441.881	440.805	440.088
157.0	441.881	444.392	443.675	442.957	441.881
157.5	443.675	446.185	445.468	445.109	444.033
158.0	445.468	447.979	447.261	446.903	446.185
158.5	447.261	449.414	449.055	449.055	447.979
159.0	448.696	451.207	450.490	450.848	449.772
159.5	450.131	452.642	452.283	453.000	451.924
160.0	451.566	454.076	454.076	454.794	453.718
160.5	453.000	455.511	455.511	456.228	455.511
161.0	454.435	456.946	456.946	458.022	457.304
161.5	455.870	458.380	458.380	459.456	458.739
162.0	457.304	459.815	459.815	460.891	460.532
162.5	458.739	461.250	461.250	462.326	461.967
163.0	460.174	462.326	462.684	463.760	463.402
163.5	461.608	463.760	463.760	464.836	464.478
164.0	463.043	465.195	465.195	465.912	465.912
164.5	464.119	466.630	466.271	466.988	466.988
165.0	465.554	467.706	467.347	468.064	468.064
165.5	466.630	468.782	468.064	469.140	469.140
166.0	468.064	470.216	469.140	469.858	470.216
166.5	469.140	471.292	469.858	470.934	470.934

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	470.216	472.368	470.934	472.010	472.368
167.5	471.292	473.444	471.651	472.727	473.086
168.0	472.368	474.162	472.727	473.803	473.803
168.5	473.444	475.238	473.444	474.520	474.879
169.0	474.162	475.955	474.162	475.596	475.955
169.5	475.238	477.031	474.879	476.314	476.672
170.0	475.955	477.748	475.596	477.031	477.748
170.5	477.031	478.466	476.314	477.748	478.466
171.0	477.748	479.183	476.672	478.466	479.183
171.5	478.107	479.542	477.390	479.183	480.259
172.0	479.183	480.259	478.107	479.900	480.976
172.5	479.542	480.976	478.466	480.618	481.694
173.0	480.259	481.335	479.183	480.976	482.411
173.5	480.976	482.052	479.542	481.335	483.128
174.0	481.335	482.411	479.900	482.052	483.487
174.5	482.052	482.770	480.618	482.411	483.846
175.0	482.411	483.128	480.976	482.770	484.204
175.5	482.770	483.487	480.976	483.128	484.563
176.0	483.487	483.846	481.694	483.487	484.922
176.5	483.846	484.204	481.694	483.487	484.922
177.0	483.846	484.204	482.052	483.846	484.922
177.5	484.204	484.563	482.411	483.846	484.922
178.0	484.563	484.922	482.411	483.846	485.281
178.5	484.922	484.922	482.770	484.204	484.922
179.0	484.922	484.922	482.770	484.204	484.922
179.5	484.922	484.922	483.128	484.204	484.922
180.0	484.204	484.204	484.204	484.204	484.204

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-2-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	171.64	N.A.	7.60
0-30	352.63	N.A.	15.70
0-40	552.05	N.A.	24.60
0-60	888.64	N.A.	39.60
0-80	1054.59	N.A.	47.00
0-90	1072.07	N.A.	47.70
10-90	1026.81	N.A.	45.70
20-40	380.40	N.A.	16.90
20-50	565.34	N.A.	25.20
40-70	443.78	N.A.	19.80
60-80	165.95	N.A.	7.40
70-80	58.76	N.A.	2.60
80-90	17.48	N.A.	0.80
90-110	58.31	N.A.	2.60
90-120	151.00	N.A.	6.70
90-130	319.91	N.A.	14.20
90-150	795.46	N.A.	35.40
90-180	1174.03	N.A.	52.30
110-180	1115.72	N.A.	49.70
0-180	2246.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.26
10-20	126.39
20-30	180.99
30-40	199.41
40-50	184.93
50-60	151.66
60-70	107.19
70-80	58.76
80-90	17.48
90-100	13.26
100-110	45.05
110-120	92.70
120-130	168.91
130-140	234.25
140-150	241.30
150-160	200.74
160-170	131.95
170-180	45.88

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-2-10-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-2-10-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	11.7	13.0	10.9	11.7	11.9	12.7	14.0
	3H	10.9	11.7	11.9	12.7	14.0	12.4	13.1	13.3	14.1	15.4
	4H	11.2	11.9	12.2	12.9	14.3	12.9	13.6	13.9	14.6	15.9
	6H	11.3	12.0	12.3	13.0	14.3	13.2	13.9	14.2	14.9	16.2
	8H	11.3	12.0	12.4	13.0	14.3	13.3	14.0	14.4	15.0	16.3
	12H	11.3	11.9	12.3	12.9	14.3	13.4	14.0	14.4	15.0	16.4

UGR Viewed Endwise

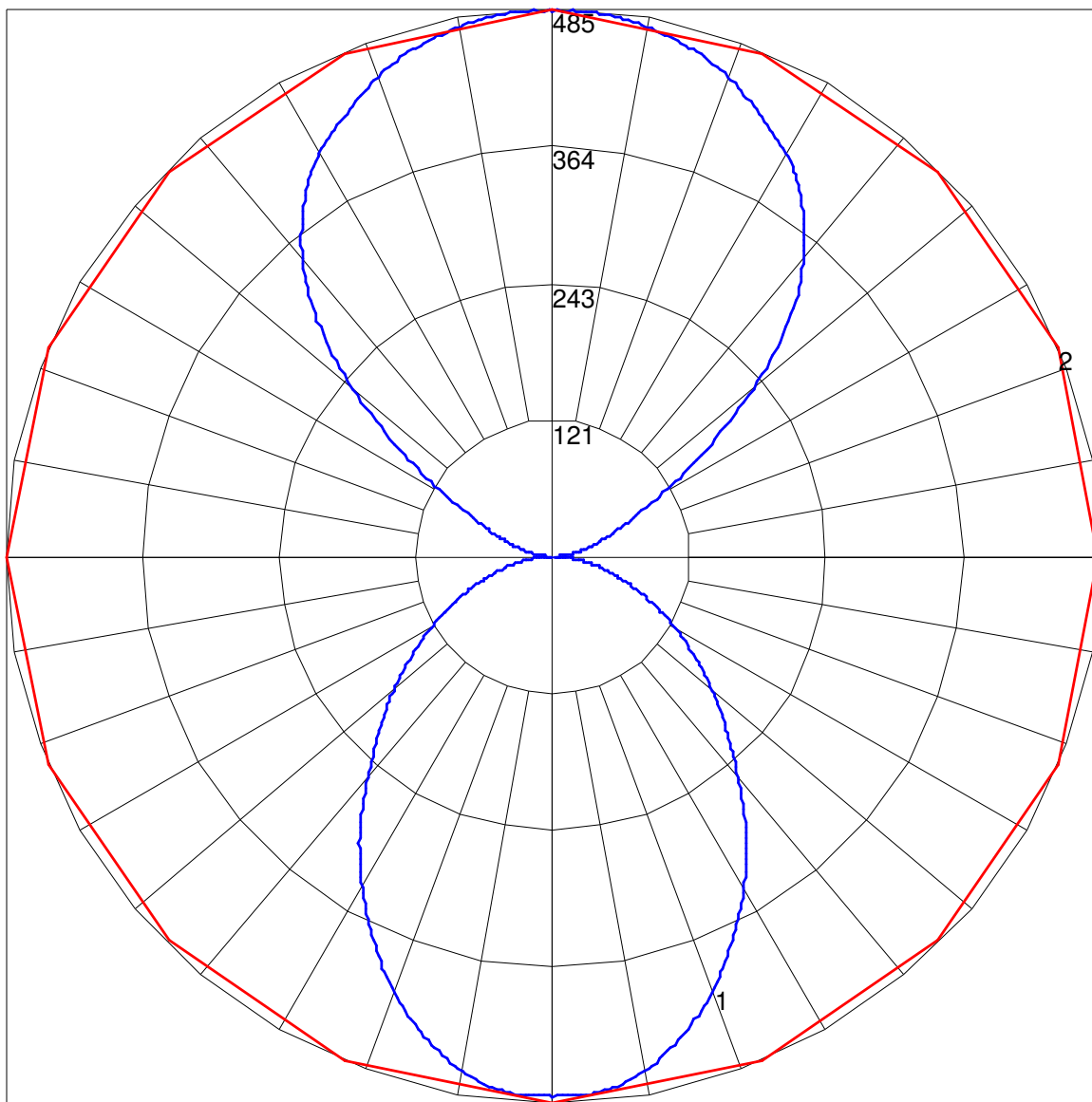
4H	2H	10.2	10.9	11.2	11.9	13.2	11.1	11.8	12.1	12.8	14.1
	3H	11.5	12.0	12.5	13.1	14.4	12.7	13.3	13.7	14.3	15.6
	4H	11.8	12.4	12.9	13.4	14.8	13.3	13.8	14.3	14.8	16.2
	6H	12.0	12.5	13.1	13.5	14.9	13.7	14.2	14.7	15.2	16.6
	8H	12.1	12.5	13.1	13.5	14.9	13.8	14.3	14.9	15.3	16.7
	12H	12.0	12.4	13.1	13.5	14.9	13.9	14.3	15.0	15.4	16.7

8H	4H	11.9	12.4	13.0	13.4	14.8	13.3	13.7	14.3	14.7	16.1
	6H	12.2	12.6	13.3	13.6	15.0	13.8	14.1	14.8	15.2	16.6
	8H	12.3	12.6	13.3	13.6	15.0	13.9	14.3	15.0	15.3	16.7
	12H	12.3	12.5	13.3	13.6	15.0	14.1	14.3	15.1	15.4	16.8

12H	4H	11.9	12.3	13.0	13.4	14.7	13.2	13.6	14.3	14.7	16.0
	6H	12.2	12.5	13.3	13.6	15.0	13.7	14.0	14.8	15.1	16.5
	8H	12.3	12.5	13.3	13.6	15.0	13.9	14.2	15.0	15.3	16.7

Maximum UGR = 16.8

POLAR GRAPH



Maximum Candela = 485.281 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.)