



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-10-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-4-10-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	3899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	32.7
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)	4.83 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	7959	3169	2383
55	6800	2205	1601
65	5674	1424	1007
75	4222	762	538
85	2088	236	177

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	832.476	832.476	832.476	832.476	832.476
0.5	829.985	837.457	830.608	831.230	831.230
1.0	829.985	836.834	830.608	831.230	831.230
1.5	829.985	836.834	830.608	831.230	831.853
2.0	829.362	836.834	829.985	831.230	831.853
2.5	829.362	836.212	829.985	831.853	831.853
3.0	828.740	835.589	829.362	831.230	831.230
3.5	828.117	834.966	828.740	831.230	831.230
4.0	826.872	834.344	828.117	830.608	830.608
4.5	826.249	833.721	827.495	829.985	829.985
5.0	825.627	832.476	826.249	829.362	828.740
5.5	824.381	831.853	825.627	828.117	827.495
6.0	823.136	830.608	824.381	826.872	826.249
6.5	821.891	829.362	823.136	825.004	825.004
7.0	820.645	828.117	821.891	823.136	823.136
7.5	818.777	826.872	820.023	821.268	820.645
8.0	817.532	825.004	818.777	818.777	818.155
8.5	815.664	823.136	816.910	816.287	815.664
9.0	813.796	821.891	815.042	813.796	813.174
9.5	811.928	820.023	813.174	811.306	810.060
10.0	810.060	818.155	810.683	808.193	806.325
10.5	808.193	816.287	808.815	805.702	802.589
11.0	806.325	813.796	805.702	802.589	799.476
11.5	803.834	811.306	803.211	798.853	795.740
12.0	801.343	809.438	800.098	795.740	791.381
12.5	798.853	806.947	796.985	792.004	787.645
13.0	796.362	804.457	793.872	788.268	783.287
13.5	793.872	801.343	790.758	784.532	778.928
14.0	790.758	798.853	787.023	780.796	775.192
14.5	788.268	795.740	783.287	776.438	770.834
15.0	785.155	792.626	779.551	772.079	765.853
15.5	781.419	789.513	775.815	767.721	761.494
16.0	778.306	786.400	772.079	763.362	756.513
16.5	775.192	782.664	767.721	758.381	751.532
17.0	772.079	778.928	763.362	754.022	747.173
17.5	768.343	775.815	759.004	749.041	742.192
18.0	764.607	771.457	754.645	744.060	737.211
18.5	761.494	767.721	750.287	739.702	732.230
19.0	757.758	763.985	745.305	734.098	726.626
19.5	754.022	759.626	740.324	729.117	721.645
20.0	749.664	755.268	735.343	724.136	716.041
20.5	745.928	751.532	730.362	718.532	709.815
21.0	742.192	746.551	725.381	712.305	704.834
21.5	737.834	742.192	720.400	706.701	697.984
22.0	733.475	737.834	715.419	701.098	692.381
22.5	729.117	732.853	709.815	694.871	686.777
23.0	724.758	728.494	704.834	688.645	679.928
23.5	720.400	723.513	699.230	682.418	673.701
24.0	715.419	718.532	693.626	676.192	666.852
24.5	711.060	713.551	688.645	669.965	660.626
25.0	705.456	708.569	682.418	663.116	653.777
25.5	700.475	703.588	676.815	656.890	647.550
26.0	695.494	697.984	671.211	650.663	641.324
26.5	689.890	692.381	664.984	644.437	634.475

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	684.909	686.777	659.381	637.588	627.626
27.5	679.305	681.173	653.154	631.362	621.275
28.0	673.079	675.569	647.550	624.512	614.675
28.5	667.475	669.965	640.701	618.224	608.324
29.0	661.248	663.739	634.475	611.748	602.035
29.5	655.645	658.135	628.248	605.273	595.310
30.0	649.418	651.909	621.648	598.984	588.524
30.5	643.814	645.060	615.110	592.384	582.297
31.0	637.588	639.456	608.448	585.722	575.261
31.5	630.739	632.607	601.599	578.997	568.537
32.0	625.135	625.758	594.812	572.086	561.750
32.5	618.348	619.220	587.901	564.801	555.025
33.0	612.309	612.246	580.803	557.765	547.740
33.5	605.771	605.646	573.829	550.729	540.642
34.0	599.171	598.673	566.731	543.569	533.980
34.5	592.758	591.512	559.571	536.221	526.944
35.0	586.344	584.539	552.597	528.874	519.410
35.5	579.931	577.191	545.499	521.465	511.752
36.0	573.456	570.280	538.089	514.242	504.404
36.5	566.856	563.120	530.991	506.708	496.870
37.0	560.193	556.146	523.706	499.299	488.714
37.5	553.095	549.048	516.608	491.765	480.744
38.0	546.433	541.950	509.261	484.106	472.836
38.5	539.397	534.727	502.163	476.385	465.178
39.0	532.361	527.691	494.691	468.976	458.702
39.5	525.201	520.780	487.468	462.625	451.666
40.0	518.165	513.993	480.121	455.402	444.070
40.5	510.942	506.833	472.898	448.491	436.598
41.0	504.031	499.797	466.361	441.019	429.438
41.5	497.057	492.948	460.446	433.672	422.464
42.0	489.897	485.849	453.410	426.636	415.677
42.5	482.799	478.938	446.810	419.787	409.140
43.0	475.887	472.027	439.836	413.125	402.726
43.5	469.287	465.738	433.049	406.649	396.500
44.0	462.936	460.072	426.387	400.360	390.398
44.5	458.080	453.285	419.787	394.196	384.421
45.0	451.230	446.623	413.311	388.157	378.381
45.5	444.506	440.023	406.960	382.179	372.466
46.0	437.906	433.236	400.734	376.326	366.551
46.5	431.244	426.449	394.508	370.411	360.698
47.0	424.706	419.725	388.406	364.558	354.783
47.5	418.044	413.000	382.241	358.705	348.930
48.0	411.506	406.400	376.140	352.790	343.077
48.5	404.968	399.800	369.975	346.938	337.287
49.0	398.430	393.262	363.873	340.960	331.558
49.5	391.955	386.724	357.709	335.170	325.830
50.0	385.541	380.249	351.607	329.379	320.164
50.5	379.066	373.773	345.443	323.588	314.622
51.0	372.590	367.360	339.279	317.860	309.081
51.5	366.177	360.947	333.177	312.132	303.539
52.0	359.702	354.534	327.200	306.466	297.998
52.5	353.226	348.245	321.222	300.862	292.518
53.0	346.751	341.894	315.369	295.258	287.101
53.5	340.337	335.605	309.579	289.654	281.498
54.0	333.987	329.441	303.851	284.175	276.018
54.5	327.636	323.215	298.184	278.571	270.539

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55.0	321.347	317.113	292.518	273.030	265.060
55.5	315.058	311.073	286.915	267.613	259.643
56.0	308.832	305.034	281.311	262.133	254.163
56.5	302.667	299.118	275.707	256.841	248.871
57.0	296.566	293.141	270.103	251.486	243.641
57.5	290.526	287.164	264.499	246.256	238.535
58.0	284.611	281.186	258.958	241.026	233.429
58.5	278.696	275.271	253.416	235.920	228.511
59.0	273.030	269.481	247.999	230.814	223.529
59.5	267.426	263.752	242.520	225.771	218.673
60.0	261.822	258.024	237.165	220.790	213.878
60.5	256.280	252.358	231.873	215.871	209.084
61.0	250.677	246.692	226.643	211.014	204.352
61.5	245.073	241.150	221.412	206.220	199.682
62.0	239.407	235.609	216.244	201.425	195.137
62.5	233.803	230.129	211.139	196.693	190.591
63.0	228.261	224.712	206.158	192.086	186.108
63.5	222.782	219.295	201.114	187.478	181.625
64.0	217.303	213.816	196.133	182.871	177.205
64.5	211.824	208.399	191.214	178.325	172.784
65.0	206.469	203.044	186.295	173.842	168.488
65.5	201.052	197.690	181.439	169.359	164.191
66.0	195.697	192.397	176.644	164.939	159.895
66.5	190.280	187.105	171.788	160.455	155.599
67.0	184.863	181.937	166.993	155.910	151.240
67.5	179.508	176.707	162.261	151.489	146.944
68.0	174.216	171.476	157.529	147.069	142.710
68.5	168.923	166.308	152.735	142.710	138.476
69.0	163.693	161.078	148.065	138.352	134.242
69.5	158.463	155.972	143.333	133.993	130.133
70.0	153.171	150.867	138.725	129.697	125.961
70.5	147.940	145.823	134.118	125.463	121.914
71.0	142.772	140.718	129.510	121.291	117.929
71.5	137.604	135.674	125.027	117.119	114.068
72.0	132.561	130.631	120.731	113.072	110.270
72.5	127.518	125.712	116.372	109.150	106.472
73.0	122.536	120.855	112.014	105.227	102.736
73.5	117.555	116.061	107.717	101.367	99.063
74.0	112.699	111.267	103.484	97.568	95.389
74.5	107.842	106.597	99.374	93.833	91.778
75.0	103.048	101.989	95.265	90.159	88.166
75.5	98.378	97.382	91.217	86.548	84.680
76.0	93.708	92.899	87.232	82.999	81.255
76.5	89.163	88.478	83.310	79.449	77.893
77.0	84.680	84.119	79.449	75.963	74.468
77.5	80.197	79.823	75.651	72.600	71.168
78.0	75.838	75.589	71.978	69.176	67.806
78.5	71.542	71.480	68.304	65.876	64.568
79.0	67.370	67.432	64.817	62.576	61.455
79.5	63.261	63.447	61.330	59.400	58.342
80.0	59.213	59.587	57.968	56.225	55.291
80.5	55.229	55.851	54.606	53.112	52.302
81.0	51.430	52.178	51.306	50.123	49.376
81.5	47.757	48.629	48.068	47.134	46.512
82.0	44.083	45.142	44.893	44.145	43.647
82.5	40.534	41.655	41.842	41.281	40.908

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83.0	37.110	38.355	38.728	38.479	38.106
83.5	33.747	35.117	35.740	35.678	35.428
84.0	30.510	32.066	32.876	32.938	32.813
84.5	27.396	29.077	30.011	30.261	30.136
85.0	24.408	26.151	27.210	27.645	27.521
85.5	21.543	23.349	24.532	25.093	25.030
86.0	18.742	20.547	21.917	22.540	22.540
86.5	16.064	17.932	19.364	20.111	20.111
87.0	13.449	15.317	16.874	17.745	17.745
87.5	10.896	12.826	14.383	15.379	15.379
88.0	8.406	10.398	12.017	13.076	13.138
88.5	5.915	8.032	9.651	10.959	11.021
89.0	3.425	5.417	7.160	8.468	8.157
89.5	1.681	3.238	4.545	5.355	5.043
90.0	1.494	2.366	2.926	3.113	2.553
90.5	1.681	3.487	4.732	5.043	4.981
91.0	3.425	4.296	5.479	6.538	6.600
91.5	5.977	5.728	6.289	7.036	7.098
92.0	8.904	7.721	7.472	8.032	8.032
92.5	11.893	9.900	8.717	9.153	9.153
93.0	14.881	12.328	10.149	10.336	10.274
93.5	17.932	14.757	11.955	11.581	11.519
94.0	20.983	17.185	14.010	12.889	12.764
94.5	24.034	19.738	16.251	14.321	14.072
95.0	27.085	22.415	18.679	16.002	15.442
95.5	30.074	25.217	21.170	17.870	17.060
96.0	33.125	28.144	23.598	19.925	18.866
96.5	36.113	31.132	25.964	22.166	20.796
97.0	39.164	34.183	28.206	24.532	23.038
97.5	42.215	37.172	30.447	26.961	25.342
98.0	45.266	40.223	32.751	29.327	27.708
98.5	48.317	43.212	34.993	31.630	30.074
99.0	51.368	46.262	37.234	33.872	32.378
99.5	54.419	49.313	39.600	36.113	34.681
100.0	57.470	52.364	41.966	38.293	36.861
100.5	60.583	55.478	44.395	40.534	39.102
101.0	63.634	58.591	46.885	42.776	41.344
101.5	66.810	61.704	49.376	45.079	43.585
102.0	69.985	64.880	52.053	47.321	45.889
102.5	73.285	68.117	54.730	49.625	48.193
103.0	76.585	71.417	57.408	51.991	50.434
103.5	80.010	74.780	60.210	54.419	52.800
104.0	83.497	78.204	63.136	56.847	55.229
104.5	86.921	81.691	66.063	59.400	57.719
105.0	90.408	85.240	69.114	61.953	60.272
105.5	93.957	88.851	72.227	64.568	62.825
106.0	97.631	92.525	75.465	67.246	65.502
106.5	101.429	96.323	78.827	70.048	68.180
107.0	105.351	100.246	82.314	72.849	70.981
107.5	109.336	104.231	85.925	75.776	73.783
108.0	113.508	108.340	89.599	78.827	76.710
108.5	117.804	112.574	93.459	82.002	79.698
109.0	122.225	116.933	97.382	85.240	82.812
109.5	126.708	121.353	101.491	88.602	86.049
110.0	131.440	125.961	105.725	92.089	89.349
110.5	136.235	130.755	110.146	95.763	92.774

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111.0	141.278	135.612	114.753	99.561	96.323
111.5	146.384	140.655	119.548	103.608	100.059
112.0	151.801	145.948	124.529	107.780	104.044
112.5	157.342	151.365	129.697	112.201	108.091
113.0	163.071	157.031	135.114	116.746	112.387
113.5	168.986	162.822	140.718	121.478	116.746
114.0	175.150	168.799	146.508	126.459	121.478
114.5	181.439	174.963	152.548	131.689	126.335
115.0	187.976	181.376	158.774	137.106	131.503
115.5	194.701	187.976	165.312	142.772	136.795
116.0	201.550	194.763	172.037	148.750	142.399
116.5	208.648	201.799	179.010	155.038	148.189
117.0	216.058	208.897	186.233	161.514	154.354
117.5	223.654	216.307	193.642	168.301	160.767
118.0	231.499	223.841	201.301	175.337	167.367
118.5	239.531	231.686	209.209	182.559	174.216
119.0	247.750	239.718	217.241	190.031	181.376
119.5	256.094	247.937	225.584	197.876	188.786
120.0	264.499	256.405	234.177	205.909	196.444
120.5	273.154	265.060	242.956	214.252	204.352
121.0	281.996	273.964	251.984	222.907	212.571
121.5	291.086	283.054	261.199	231.873	221.163
122.0	300.364	292.394	270.664	241.026	230.005
122.5	309.890	301.796	280.315	250.552	239.220
123.0	319.603	311.385	290.090	260.265	248.622
123.5	329.441	321.098	300.052	270.165	258.273
124.0	339.341	330.998	310.139	280.315	268.173
124.5	349.428	340.898	320.351	290.775	278.384
125.0	359.515	350.985	330.749	301.422	288.969
125.5	369.540	361.134	341.209	312.318	299.679
126.0	379.502	371.345	351.732	323.339	310.513
126.5	389.526	381.557	362.255	334.547	321.596
127.0	399.738	391.892	372.964	345.879	332.990
127.5	410.011	402.228	383.611	357.336	344.447
128.0	420.223	412.689	394.258	368.792	356.028
128.5	430.372	423.025	404.843	380.249	367.609
129.0	440.272	433.298	415.304	391.768	379.253
129.5	450.296	443.510	425.764	403.225	391.083
130.0	459.014	453.347	436.100	414.743	403.038
130.5	467.232	461.815	446.312	426.138	414.868
131.0	476.697	471.280	455.402	437.408	426.761
131.5	486.223	480.619	464.804	448.055	438.591
132.0	495.563	490.208	473.459	458.453	449.113
132.5	504.902	499.610	483.110	469.038	460.695
133.0	514.118	508.763	492.699	478.315	472.089
133.5	523.021	518.040	502.101	488.465	481.865
134.0	531.676	526.882	511.440	498.489	492.885
134.5	540.269	535.723	520.469	508.327	503.595
135.0	548.301	544.129	529.497	517.978	513.931
135.5	556.457	552.472	538.338	527.255	523.831
136.0	564.365	560.629	546.931	536.533	533.606
136.5	571.774	568.661	555.399	545.374	543.195
137.0	579.122	576.257	563.929	554.340	552.410
137.5	586.282	583.978	571.650	562.933	561.439
138.0	593.442	591.325	579.682	571.276	570.031
138.5	600.478	598.673	587.216	579.308	578.188

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	606.892	605.771	594.501	587.278	586.469
139.5	613.367	612.744	601.786	594.812	594.190
140.0	619.780	619.158	608.635	602.533	601.848
140.5	625.758	625.758	615.422	609.693	609.071
141.0	631.984	631.984	622.333	616.792	616.107
141.5	637.588	638.211	628.871	623.890	623.267
142.0	643.192	644.437	635.720	630.116	630.116
142.5	648.796	650.041	641.324	636.965	636.343
143.0	654.399	655.645	647.550	643.192	643.192
143.5	659.381	661.248	653.777	649.418	649.418
144.0	664.362	666.230	659.381	655.645	655.645
144.5	669.343	671.833	664.362	661.871	661.871
145.0	674.324	676.815	669.965	667.475	668.098
145.5	679.305	681.796	674.947	673.079	674.324
146.0	683.664	686.777	679.928	678.682	679.928
146.5	688.645	691.135	684.909	684.286	686.154
147.0	693.003	695.494	689.890	689.267	691.135
147.5	696.739	700.475	694.249	694.249	696.739
148.0	701.720	704.834	699.230	699.230	701.720
148.5	706.079	709.192	703.588	703.588	706.701
149.0	710.437	713.551	707.947	707.947	711.060
149.5	714.173	717.909	712.305	712.305	715.419
150.0	718.532	721.645	716.664	716.041	719.154
150.5	722.268	726.003	721.022	719.777	722.890
151.0	726.003	729.739	725.381	724.136	726.626
151.5	730.362	734.098	729.117	727.871	729.739
152.0	734.098	737.834	733.475	731.607	732.853
152.5	737.834	741.570	737.834	735.343	736.588
153.0	741.570	745.305	741.570	739.079	739.702
153.5	745.305	748.419	745.305	742.815	742.815
154.0	748.419	752.155	749.041	746.551	745.928
154.5	752.155	755.890	752.777	750.287	749.664
155.0	755.268	759.004	756.513	754.022	752.777
155.5	758.381	762.117	760.249	757.758	756.513
156.0	761.494	765.230	763.362	761.494	760.249
156.5	764.607	768.343	767.098	765.230	763.985
157.0	767.098	771.457	770.211	768.966	767.098
157.5	770.211	774.570	773.324	772.702	770.834
158.0	773.324	777.683	776.438	775.815	774.570
158.5	776.438	780.174	779.551	779.551	777.683
159.0	778.928	783.287	782.041	782.664	780.796
159.5	781.419	785.777	785.155	786.400	784.532
160.0	783.909	788.268	788.268	789.513	787.645
160.5	786.400	790.758	790.758	792.004	790.758
161.0	788.891	793.249	793.249	795.117	793.872
161.5	791.381	795.740	795.740	797.608	796.362
162.0	793.872	798.230	798.230	800.098	799.476
162.5	796.362	800.721	800.721	802.589	801.966
163.0	798.853	802.589	803.211	805.079	804.457
163.5	801.343	805.079	805.079	806.947	806.325
164.0	803.834	807.570	807.570	808.815	808.815
164.5	805.702	810.060	809.438	810.683	810.683
165.0	808.193	811.928	811.306	812.551	812.551
165.5	810.060	813.796	812.551	814.419	814.419
166.0	812.551	816.287	814.419	815.664	816.287
166.5	814.419	818.155	815.664	817.532	817.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	816.287	820.023	817.532	819.400	820.023
167.5	818.155	821.891	818.777	820.645	821.268
168.0	820.023	823.136	820.645	822.513	822.513
168.5	821.891	825.004	821.891	823.759	824.381
169.0	823.136	826.249	823.136	825.627	826.249
169.5	825.004	828.117	824.381	826.872	827.495
170.0	826.249	829.362	825.627	828.117	829.362
170.5	828.117	830.608	826.872	829.362	830.608
171.0	829.362	831.853	827.495	830.608	831.853
171.5	829.985	832.476	828.740	831.853	833.721
172.0	831.853	833.721	829.985	833.098	834.966
172.5	832.476	834.966	830.608	834.344	836.212
173.0	833.721	835.589	831.853	834.966	837.457
173.5	834.966	836.834	832.476	835.589	838.702
174.0	835.589	837.457	833.098	836.834	839.325
174.5	836.834	838.079	834.344	837.457	839.947
175.0	837.457	838.702	834.966	838.079	840.570
175.5	838.079	839.325	834.966	838.702	841.193
176.0	839.325	839.947	836.212	839.325	841.815
176.5	839.947	840.570	836.212	839.325	841.815
177.0	839.947	840.570	836.834	839.947	841.815
177.5	840.570	841.193	837.457	839.947	841.815
178.0	841.193	841.815	837.457	839.947	842.438
178.5	841.815	841.815	838.079	840.570	841.815
179.0	841.815	841.815	838.079	840.570	841.815
179.5	841.815	841.815	838.702	840.570	841.815
180.0	840.570	840.570	840.570	840.570	840.570

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-10-L4-835U-L4-835D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	297.97	N.A.	7.60
0-30	612.17	N.A.	15.70
0-40	958.34	N.A.	24.60
0-60	1542.66	N.A.	39.60
0-80	1830.74	N.A.	47.00
0-90	1861.09	N.A.	47.70
10-90	1782.52	N.A.	45.70
20-40	660.37	N.A.	16.90
20-50	981.41	N.A.	25.20
40-70	770.39	N.A.	19.80
60-80	288.08	N.A.	7.40
70-80	102.01	N.A.	2.60
80-90	30.35	N.A.	0.80
90-110	101.22	N.A.	2.60
90-120	262.14	N.A.	6.70
90-130	555.36	N.A.	14.20
90-150	1380.9	N.A.	35.40
90-180	2038.09	N.A.	52.30
110-180	1936.86	N.A.	49.70
0-180	3899.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.56
10-20	219.40
20-30	314.20
30-40	346.17
40-50	321.04
50-60	263.28
60-70	186.07
70-80	102.01
80-90	30.35
90-100	23.01
100-110	78.21
110-120	160.92
120-130	293.22
130-140	406.65
140-150	418.89
150-160	348.48
160-170	229.07
170-180	79.64

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-10-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-4-10-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

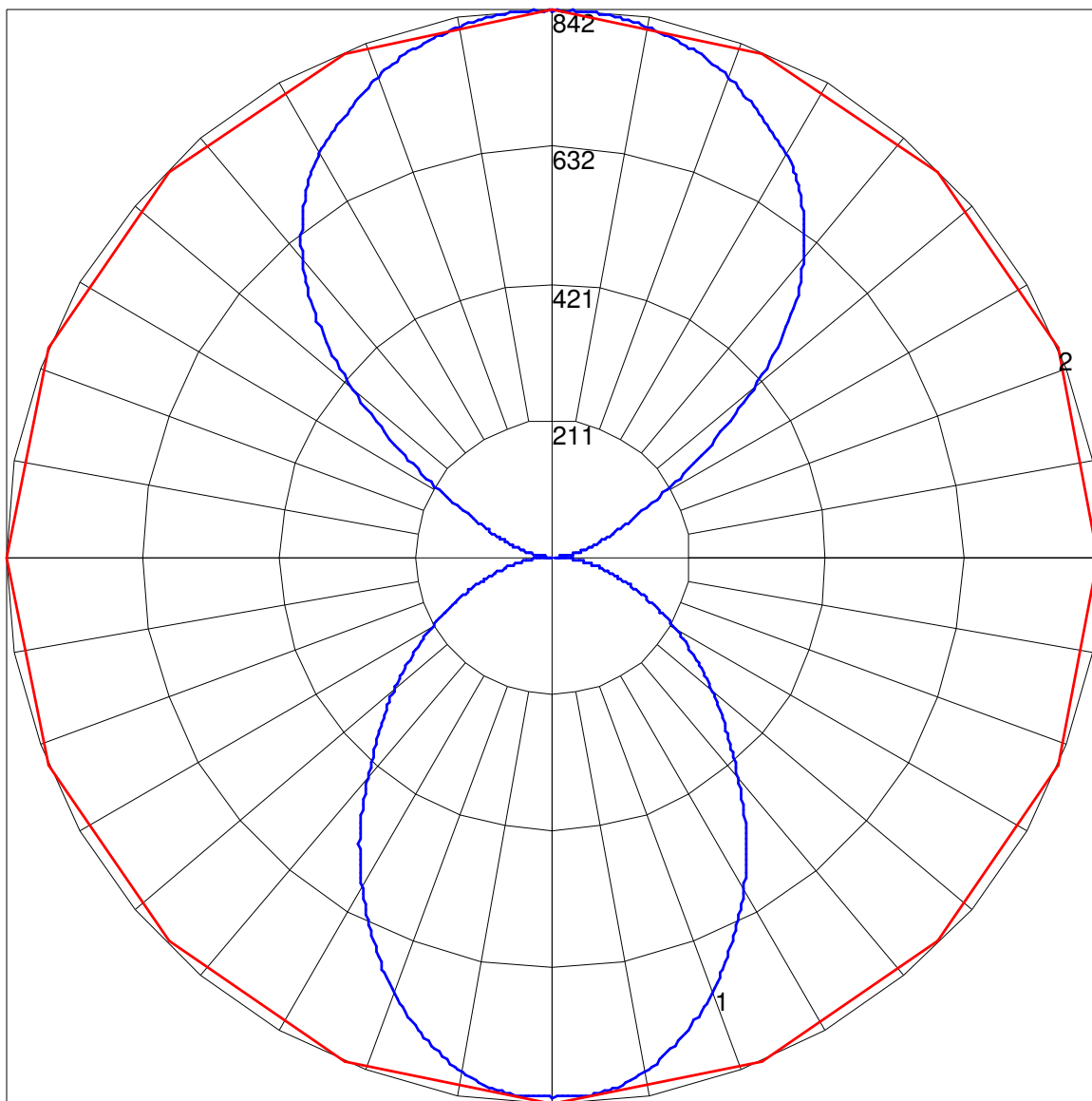
X=2H	Y=2H	9.9	10.7	10.9	11.7	13.0	11.0	11.9	12.0	12.9	14.2
	3H	11.0	11.7	12.0	12.7	14.1	12.6	13.3	13.5	14.3	15.6
	4H	11.3	12.0	12.3	13.0	14.3	13.1	13.8	14.1	14.8	16.1
	6H	11.4	12.1	12.4	13.1	14.4	13.5	14.1	14.5	15.1	16.5
	8H	11.4	12.0	12.4	13.0	14.4	13.6	14.2	14.6	15.2	16.6
	12H	11.4	12.0	12.4	13.0	14.4	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	11.2	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	13.5	14.0	14.5	15.0	16.4
	6H	12.1	12.6	13.1	13.6	15.0	13.9	14.4	15.0	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	13.5	14.9	14.2	14.6	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	15.6	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	14.9	16.2
	6H	12.3	12.6	13.3	13.7	15.1	13.9	14.3	15.0	15.3	16.7
	8H	12.3	12.6	13.4	13.7	15.1	14.2	14.4	15.2	15.5	16.9

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 842.438 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.)