

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13012869.01 & 13012869.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 16 NOV, 2023

[MANUFAC] H E Williams Inc

[LUMCAT] MX2UD-4'00-L4/835U/L4/835D-S-F-LPW128-DIM1-UNV

[LUMINAIRE] Formed White aluminum housing, lens

[LAMP] White LEDs

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	25.02
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
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8982	8220	7534
55	7923	7204	6524
65	6966	6266	5673
75	5743	5261	4885
85	4143	4455	4556

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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	710.640	710.640	710.640	710.640	710.640
0.5	709.560	714.960	709.020	709.020	707.940
1.0	709.020	714.960	709.020	709.020	707.940
1.5	709.020	714.420	709.020	709.020	707.940
2.0	709.020	714.420	708.480	709.020	707.940
2.5	708.480	713.880	708.480	709.020	707.940
3.0	707.940	713.880	707.940	709.020	707.400
3.5	707.400	713.340	707.400	708.480	706.860
4.0	706.860	712.800	706.860	707.940	706.320
4.5	706.320	712.260	705.780	707.400	705.780
5.0	705.240	711.180	705.240	706.860	704.700
5.5	704.700	710.640	704.160	705.780	704.160
6.0	703.620	709.560	703.620	704.700	703.080
6.5	702.540	708.480	702.540	703.080	701.460
7.0	701.460	707.400	701.460	701.460	699.840
7.5	700.380	706.320	700.380	699.840	698.220
8.0	699.300	705.240	698.760	697.680	696.600
8.5	697.680	703.620	697.680	696.060	694.440
9.0	696.060	702.540	696.060	693.900	692.280
9.5	694.980	700.920	694.440	691.740	689.580
10.0	693.360	699.300	692.280	689.040	686.880
10.5	691.740	697.680	690.660	686.880	684.180
11.0	690.120	696.060	687.960	684.180	680.940
11.5	687.960	693.900	685.800	681.480	678.240
12.0	686.340	692.280	683.640	678.780	675.000
12.5	684.180	690.120	680.940	675.540	671.760
13.0	682.020	687.960	678.240	672.840	668.520
13.5	679.860	685.800	675.540	669.600	665.820
14.0	677.700	683.640	672.840	666.360	662.040
14.5	675.000	680.940	669.600	663.120	658.260
15.0	672.300	678.240	666.360	659.340	655.020
15.5	670.140	676.080	663.120	655.560	651.240
16.0	667.440	672.840	659.880	652.320	647.460
16.5	664.740	670.140	656.640	648.540	643.680
17.0	662.040	666.900	652.860	644.220	639.360
17.5	659.340	664.200	649.080	640.440	635.580
18.0	656.100	660.960	645.300	636.120	631.260
18.5	653.400	657.720	641.520	632.340	626.940
19.0	650.160	654.480	637.740	628.020	622.620
19.5	646.920	650.700	633.960	623.700	618.300
20.0	643.680	647.460	629.640	619.380	613.980
20.5	640.440	643.680	625.320	614.520	609.120
21.0	636.660	639.900	621.540	609.660	604.260
21.5	633.420	636.120	617.220	604.800	599.400
22.0	629.640	632.340	612.900	599.940	594.000
22.5	626.400	628.560	608.580	595.080	588.600
23.0	622.620	624.780	603.720	589.680	583.740
23.5	618.840	620.460	599.400	584.820	577.800
24.0	614.520	616.680	595.080	579.420	572.400
24.5	610.740	612.360	590.220	574.020	567.000
25.0	606.420	608.040	585.360	569.160	561.600
25.5	602.640	603.180	581.040	563.760	556.200
26.0	597.780	598.860	575.640	557.820	550.800
26.5	593.460	594.000	570.780	552.420	545.400

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27.0	588.600	589.680	565.920	547.560	539.946
27.5	584.280	584.820	560.520	542.160	534.384
28.0	579.420	579.960	555.660	536.274	529.038
28.5	574.560	575.100	550.260	530.928	523.584
29.0	569.700	569.700	544.860	525.528	518.238
29.5	563.760	564.840	539.352	519.966	512.460
30.0	558.900	559.440	533.844	514.674	506.790
30.5	554.040	554.040	528.120	508.896	501.120
31.0	548.640	548.640	522.342	503.334	495.504
31.5	543.240	543.240	516.564	497.448	489.456
32.0	538.002	537.678	510.786	491.508	483.624
32.5	532.656	531.738	504.900	485.460	477.900
33.0	527.310	526.014	499.014	479.412	471.744
33.5	521.856	520.128	493.074	473.256	465.912
34.0	516.348	514.188	486.918	467.100	459.540
34.5	510.786	508.194	481.032	460.836	453.384
35.0	505.386	502.308	474.930	454.464	447.066
35.5	499.716	496.422	468.774	448.308	440.478
36.0	493.938	490.266	462.780	441.828	433.836
36.5	488.592	484.272	456.570	435.348	426.870
37.0	482.706	478.278	450.198	428.868	419.958
37.5	476.874	472.284	443.934	422.334	413.100
38.0	471.204	466.182	437.562	415.800	406.242
38.5	465.318	460.242	431.298	409.050	400.518
39.0	459.324	454.248	425.142	402.840	394.902
39.5	453.330	448.308	418.932	397.602	388.368
40.0	447.228	442.422	412.668	391.662	381.996
40.5	441.234	436.482	406.620	385.290	375.840
41.0	435.348	430.650	401.868	379.134	369.900
41.5	429.300	424.764	396.144	373.194	364.122
42.0	423.360	418.770	390.798	367.362	358.560
42.5	417.312	412.884	384.912	361.800	353.160
43.0	411.480	406.890	379.242	356.346	347.922
43.5	405.864	402.246	373.626	351.000	342.738
44.0	400.950	396.900	368.118	345.762	337.662
44.5	396.252	391.230	362.664	340.578	332.532
45.0	390.366	385.668	357.264	335.502	327.456
45.5	384.642	379.836	351.918	330.426	322.434
46.0	378.918	374.058	346.626	325.404	317.358
46.5	373.248	368.334	341.388	320.328	312.390
47.0	367.524	362.718	336.150	315.306	307.368
47.5	361.854	357.102	330.858	310.176	302.346
48.0	356.292	351.486	325.566	305.100	297.378
48.5	350.784	345.924	320.220	300.078	292.410
49.0	345.276	340.362	314.874	295.056	287.496
49.5	339.768	334.908	309.474	290.088	282.636
50.0	334.260	329.400	304.182	285.120	277.776
50.5	328.752	323.892	298.890	280.206	272.970
51.0	323.244	318.438	293.652	275.346	268.164
51.5	317.628	312.984	288.468	270.432	263.358
52.0	312.120	307.422	283.338	265.572	258.552
52.5	306.558	302.022	278.370	260.712	253.800
53.0	301.104	296.622	273.402	255.906	248.994
53.5	295.650	291.276	268.542	251.100	244.188
54.0	290.196	285.984	263.628	246.294	239.436
54.5	284.742	280.746	258.768	241.488	234.684

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55.0	279.342	275.508	253.962	236.736	229.986
55.5	274.050	270.324	249.156	232.038	225.342
56.0	268.812	265.086	244.350	227.448	220.752
56.5	263.628	259.902	239.544	222.858	216.324
57.0	258.552	254.772	234.684	218.322	211.950
57.5	253.476	249.750	229.878	213.840	207.630
58.0	248.508	244.782	225.072	209.358	203.364
58.5	243.540	239.814	220.320	204.930	199.098
59.0	238.572	234.900	215.676	200.556	194.886
59.5	233.658	229.986	210.978	196.290	190.728
60.0	228.852	225.072	206.334	192.078	186.624
60.5	223.992	220.212	201.798	187.866	182.466
61.0	219.186	215.406	197.316	183.708	178.416
61.5	214.326	210.708	192.834	179.550	174.420
62.0	209.520	206.010	188.406	175.500	170.532
62.5	204.714	201.366	184.032	171.504	166.590
63.0	199.962	196.668	179.712	167.508	162.702
63.5	195.210	191.970	175.446	163.512	158.868
64.0	190.458	187.272	171.180	159.624	155.034
64.5	185.706	182.574	166.968	155.682	151.200
65.0	180.954	177.930	162.756	151.794	147.366
65.5	176.256	173.340	158.598	147.852	143.586
66.0	171.558	168.750	154.440	143.964	140.022
66.5	166.860	164.214	150.282	140.076	136.242
67.0	162.270	159.570	146.124	136.188	132.516
67.5	157.626	154.980	141.966	132.354	128.736
68.0	152.982	150.390	137.862	128.520	125.064
68.5	148.392	145.854	133.704	124.740	121.392
69.0	143.802	141.372	129.600	121.014	117.774
69.5	139.158	136.890	125.496	117.288	114.156
70.0	134.676	132.408	121.500	113.616	110.646
70.5	130.194	127.980	117.504	109.998	107.136
71.0	125.712	123.498	113.562	106.380	103.680
71.5	121.338	119.178	109.620	102.870	100.278
72.0	116.964	114.858	105.732	99.360	96.930
72.5	112.644	110.646	101.952	95.904	93.636
73.0	108.324	106.434	98.226	92.502	90.342
73.5	104.004	102.276	94.500	89.100	87.102
74.0	99.738	98.118	90.828	85.752	83.916
74.5	95.526	94.014	87.264	82.512	80.784
75.0	91.368	90.018	83.700	79.272	77.706
75.5	87.264	86.022	80.190	76.086	74.682
76.0	83.160	82.188	76.680	72.900	71.658
76.5	79.164	78.300	73.278	69.768	68.688
77.0	75.168	74.520	69.876	66.744	65.772
77.5	71.280	70.740	66.636	63.720	62.856
78.0	67.446	67.068	63.396	60.804	59.994
78.5	63.666	63.450	60.210	57.888	57.186
79.0	59.994	59.886	57.132	55.080	54.432
79.5	56.322	56.484	54.054	52.272	51.732
80.0	52.812	53.136	50.976	49.464	49.032
80.5	49.356	49.842	48.060	46.764	46.386
81.0	46.008	46.602	45.198	44.064	43.794
81.5	42.714	43.470	42.282	41.418	41.202
82.0	39.528	40.338	39.528	38.826	38.718
82.5	36.396	37.314	36.720	36.288	36.180

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83.0	33.426	34.344	34.020	33.804	33.750
83.5	30.456	31.482	31.374	31.320	31.320
84.0	27.648	28.728	28.782	28.890	28.998
84.5	24.894	26.028	26.298	26.568	26.676
85.0	22.194	23.382	23.868	24.246	24.408
85.5	19.656	20.844	21.492	21.978	22.248
86.0	17.172	18.360	19.170	19.764	20.034
86.5	14.796	16.038	16.902	17.604	17.982
87.0	12.474	13.716	14.688	15.498	15.930
87.5	10.206	11.502	12.582	13.446	13.878
88.0	7.992	9.342	10.476	11.394	11.934
88.5	5.832	7.182	8.370	9.450	10.044
89.0	3.618	4.968	6.210	7.182	7.776
89.5	1.458	2.700	3.510	3.942	4.320
90.0	3.181	4.444	5.092	5.878	6.193
90.5	3.990	4.089	3.793	4.039	4.138
91.0	5.222	5.172	4.433	4.581	4.680
91.5	7.438	6.404	5.123	5.172	5.222
92.0	9.704	7.635	6.059	5.862	5.862
92.5	12.019	9.015	7.093	6.650	6.601
93.0	14.433	10.640	8.276	7.537	7.537
93.5	16.798	12.463	9.606	8.719	8.522
94.0	19.162	14.581	11.084	10.000	9.704
94.5	21.576	16.551	12.611	11.330	10.936
95.0	23.990	18.522	14.236	12.660	12.266
95.5	26.403	20.640	15.911	13.990	13.596
96.0	28.768	22.758	17.635	15.320	14.877
96.5	31.132	25.172	19.408	16.699	16.108
97.0	33.595	27.487	21.182	18.078	17.290
97.5	36.058	29.852	23.103	19.556	18.620
98.0	38.324	32.315	25.073	21.083	20.049
98.5	40.837	35.073	27.339	22.807	21.527
99.0	43.250	37.585	30.098	24.532	23.054
99.5	45.664	40.098	32.315	26.354	24.630
100.0	47.979	42.659	34.581	28.128	26.305
100.5	50.344	45.319	37.044	29.901	28.078
101.0	53.201	47.979	39.309	31.822	29.950
101.5	55.565	50.590	41.575	33.891	31.822
102.0	57.930	53.595	43.792	36.452	33.842
102.5	60.343	56.748	45.812	39.556	35.910
103.0	63.004	59.851	47.979	42.314	38.127
103.5	65.516	63.201	50.196	45.171	40.787
104.0	68.077	66.550	52.413	47.782	44.630
104.5	71.279	69.457	54.531	50.147	47.733
105.0	74.038	72.166	57.191	52.363	50.048
105.5	76.895	75.171	59.752	54.777	52.462
106.0	79.900	78.225	62.068	57.289	55.023
106.5	82.954	81.180	64.826	59.654	57.486
107.0	86.008	84.432	67.634	62.018	59.900
107.5	88.816	87.633	70.540	64.531	62.363
108.0	91.722	90.934	72.954	66.895	65.023
108.5	94.776	94.629	75.417	69.210	67.535
109.0	97.978	98.569	78.225	71.723	69.949
109.5	101.328	102.461	81.082	74.777	72.708
110.0	105.121	106.205	84.185	78.176	75.121
110.5	108.963	110.195	87.338	81.180	77.979

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111.0	113.101	114.628	90.688	84.284	81.230
111.5	117.485	118.914	94.333	87.240	85.220
112.0	122.214	123.052	98.323	90.244	89.210
112.5	127.140	127.239	102.559	93.446	92.362
113.0	131.573	131.623	107.535	96.747	96.008
113.5	136.155	136.253	112.805	99.751	99.555
114.0	140.982	141.031	118.372	103.052	102.855
114.5	146.007	145.711	123.987	106.451	106.352
115.0	151.228	150.440	129.505	110.195	109.800
115.5	156.450	155.465	135.071	114.086	112.608
116.0	161.622	160.735	140.539	117.781	116.106
116.5	166.893	166.055	145.908	121.918	119.899
117.0	172.656	171.622	151.179	126.450	123.938
117.5	178.617	177.336	156.893	131.475	128.076
118.0	184.725	183.395	163.149	136.549	132.362
118.5	190.981	189.651	169.701	141.820	136.795
119.0	197.434	196.055	176.154	147.632	141.573
119.5	203.986	202.606	182.607	154.233	146.745
120.0	210.685	209.306	189.109	161.277	152.115
120.5	217.532	216.005	196.006	168.666	157.878
121.0	224.527	223.099	203.394	175.858	164.184
121.5	231.620	230.143	210.981	183.297	170.932
122.0	238.813	236.990	218.567	190.587	178.370
122.5	246.103	244.182	226.448	197.631	186.154
123.0	253.492	251.472	234.822	204.626	193.937
123.5	260.881	258.911	243.492	211.670	201.868
124.0	268.171	266.398	252.014	219.108	209.207
124.5	275.462	273.984	260.487	226.990	216.645
125.0	282.999	281.718	269.107	235.315	224.330
125.5	291.028	289.452	277.826	243.640	232.064
126.0	298.910	297.383	286.693	251.866	240.044
126.5	306.841	305.264	295.363	260.388	248.221
127.0	314.870	313.047	303.934	269.107	256.250
127.5	322.998	320.880	312.358	278.073	264.526
128.0	330.978	328.761	320.732	286.743	273.442
128.5	338.712	336.594	328.958	295.166	282.605
129.0	346.544	344.524	336.938	303.688	291.570
129.5	354.179	352.455	344.869	312.949	300.584
130.0	361.519	360.386	352.554	322.653	309.648
130.5	368.760	368.317	360.189	332.357	318.663
131.0	375.903	376.149	367.923	341.815	328.269
131.5	383.144	383.982	375.558	351.175	337.677
132.0	390.385	391.666	382.849	360.977	347.185
132.5	397.725	399.055	390.090	370.977	356.938
133.0	404.769	406.149	397.282	380.189	366.889
133.5	411.518	413.193	404.622	388.760	376.888
134.0	418.168	420.040	411.863	396.888	386.987
134.5	424.769	426.936	418.907	405.114	396.445
135.0	431.321	433.833	426.000	412.947	405.804
135.5	437.774	440.483	433.094	420.434	414.966
136.0	444.227	446.887	440.040	427.527	423.636
136.5	450.532	453.044	446.690	434.325	431.665
137.0	456.591	458.906	453.044	441.468	439.104
137.5	462.601	464.620	459.349	448.562	446.246
138.0	468.364	470.334	465.556	455.409	453.241
138.5	474.029	475.901	471.714	461.813	460.039

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139.0	479.398	481.270	477.477	467.724	466.492
139.5	484.423	486.393	482.896	473.389	472.699
140.0	489.497	491.418	488.216	478.856	478.807
140.5	494.570	496.541	493.585	484.226	484.768
141.0	499.496	500.974	499.004	489.497	490.433
141.5	504.422	505.900	503.930	495.063	495.556
142.0	508.856	510.826	508.856	500.482	500.974
142.5	512.797	515.260	513.289	505.900	505.900
143.0	517.230	519.693	518.215	510.826	510.826
143.5	521.663	524.126	522.649	515.752	515.752
144.0	526.097	528.560	527.575	520.678	520.678
144.5	530.038	532.501	532.008	525.604	525.604
145.0	534.471	536.441	535.949	530.038	530.530
145.5	538.412	539.890	539.890	534.964	535.456
146.0	542.353	543.830	544.323	539.890	540.382
146.5	546.293	547.771	548.756	544.323	544.816
147.0	549.742	551.712	552.205	549.249	549.742
147.5	553.190	555.160	556.145	553.682	554.175
148.0	556.638	558.608	560.086	558.116	558.608
148.5	560.086	562.057	563.534	562.057	563.042
149.0	563.534	565.012	566.983	565.997	567.475
149.5	566.490	568.460	570.431	569.938	571.909
150.0	569.446	571.909	573.386	573.386	575.849
150.5	572.894	575.357	576.835	577.327	580.283
151.0	575.849	578.805	579.790	580.775	583.731
151.5	578.805	581.761	583.238	584.224	587.672
152.0	581.761	585.209	586.194	587.672	590.627
152.5	585.209	588.164	588.657	590.627	594.076
153.0	588.164	591.120	591.613	593.583	597.031
153.5	591.120	594.076	594.076	596.046	599.987
154.0	594.076	597.031	597.031	599.002	602.450
154.5	596.539	599.987	599.494	601.465	605.405
155.0	599.494	602.942	601.957	603.928	607.868
155.5	602.450	605.405	604.420	606.391	609.839
156.0	605.405	608.361	606.883	608.854	612.302
156.5	608.361	610.824	609.346	610.824	614.272
157.0	611.317	613.287	611.809	613.287	616.243
157.5	613.780	615.750	614.272	615.750	618.213
158.0	616.735	617.720	616.735	617.720	620.183
158.5	619.198	620.183	618.706	620.183	622.154
159.0	621.169	622.154	621.169	622.154	624.124
159.5	623.632	624.617	623.632	624.124	626.587
160.0	625.602	626.587	625.602	626.095	628.558
160.5	627.080	628.065	627.572	628.065	631.021
161.0	629.050	630.035	630.035	630.035	632.991
161.5	631.021	632.006	632.006	632.006	635.454
162.0	632.991	633.484	633.976	634.469	637.424
162.5	634.961	635.454	635.947	636.439	639.887
163.0	636.439	636.932	637.917	638.410	641.858
163.5	638.410	638.410	639.395	639.887	643.828
164.0	639.887	640.380	640.873	641.858	645.799
164.5	641.365	641.858	642.843	643.336	647.769
165.0	642.843	643.336	643.828	645.306	649.247
165.5	643.828	644.813	645.306	646.784	650.725
166.0	645.306	646.291	646.291	648.262	652.695
166.5	646.784	647.276	647.276	649.247	653.680

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	648.262	648.754	648.754	650.232	655.158
167.5	649.247	649.739	649.739	651.710	656.143
168.0	650.725	651.217	650.725	652.695	657.128
168.5	651.710	652.202	651.217	653.680	658.114
169.0	653.188	653.188	652.202	654.173	659.099
169.5	654.173	654.173	653.188	654.665	659.591
170.0	655.158	655.158	654.173	655.651	660.084
170.5	656.143	656.143	654.665	656.143	660.577
171.0	657.128	657.128	655.651	656.636	661.069
171.5	658.114	657.621	656.143	656.636	661.562
172.0	658.606	658.606	656.636	657.128	662.054
172.5	659.591	659.099	657.128	657.621	662.054
173.0	660.084	659.591	657.621	657.621	662.547
173.5	661.069	660.577	657.621	658.114	662.547
174.0	661.562	661.069	658.114	658.606	662.547
174.5	662.054	661.069	658.606	658.606	663.040
175.0	662.547	661.562	658.606	658.606	663.040
175.5	663.040	662.054	659.099	659.099	663.040
176.0	663.040	662.054	659.099	659.099	663.040
176.5	663.532	662.547	659.099	659.099	663.040
177.0	663.532	662.547	659.591	659.591	663.040
177.5	664.025	662.547	659.591	659.591	663.040
178.0	664.025	662.547	659.591	659.591	663.040
178.5	664.025	663.040	659.591	659.591	663.040
179.0	664.025	663.040	660.084	659.591	663.040
179.5	664.025	663.040	660.084	659.591	663.040
180.0	661.562	661.562	661.562	661.562	661.562

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	254.70	N.A.	7.90
0-30	524.31	N.A.	16.20
0-40	821.94	N.A.	25.40
0-60	1327.86	N.A.	41.10
0-80	1580.37	N.A.	48.90
0-90	1607.32	N.A.	49.70
10-90	1540.28	N.A.	47.60
20-40	567.24	N.A.	17.50
20-50	844.55	N.A.	26.10
40-70	668.60	N.A.	20.70
60-80	252.52	N.A.	7.80
70-80	89.83	N.A.	2.80
80-90	26.95	N.A.	0.80
90-110	83.10	N.A.	2.60
90-120	213.82	N.A.	6.60
90-130	446.91	N.A.	13.80
90-150	1103.76	N.A.	34.10
90-180	1626.44	N.A.	50.30
110-180	1543.34	N.A.	47.70
0-180	3233.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.05
10-20	187.65
20-30	269.61
30-40	297.63
40-50	277.30
50-60	228.61
60-70	162.69
70-80	89.83
80-90	26.95
90-100	18.48
100-110	64.62
110-120	130.72
120-130	233.10
130-140	323.53
140-150	333.31
150-160	277.89
160-170	181.90
170-180	62.90

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	49	48	44	42	39	37	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	35	33	30	27
5	69	57	49	44	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	24	27	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-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	15.2	16.1	16.2	17.0	18.3	14.1	14.9	15.0	15.9	17.2
	3H	16.8	17.6	17.8	18.6	19.9	15.7	16.4	16.6	17.4	18.7
	4H	17.4	18.1	18.4	19.1	20.4	16.2	16.9	17.2	17.9	19.2
	6H	17.8	18.4	18.8	19.4	20.7	16.7	17.3	17.7	18.3	19.6
	8H	17.9	18.5	18.9	19.5	20.8	16.8	17.4	17.8	18.4	19.8
	12H	17.9	18.5	18.9	19.5	20.9	16.9	17.5	17.9	18.5	19.9

UGR Viewed Endwise

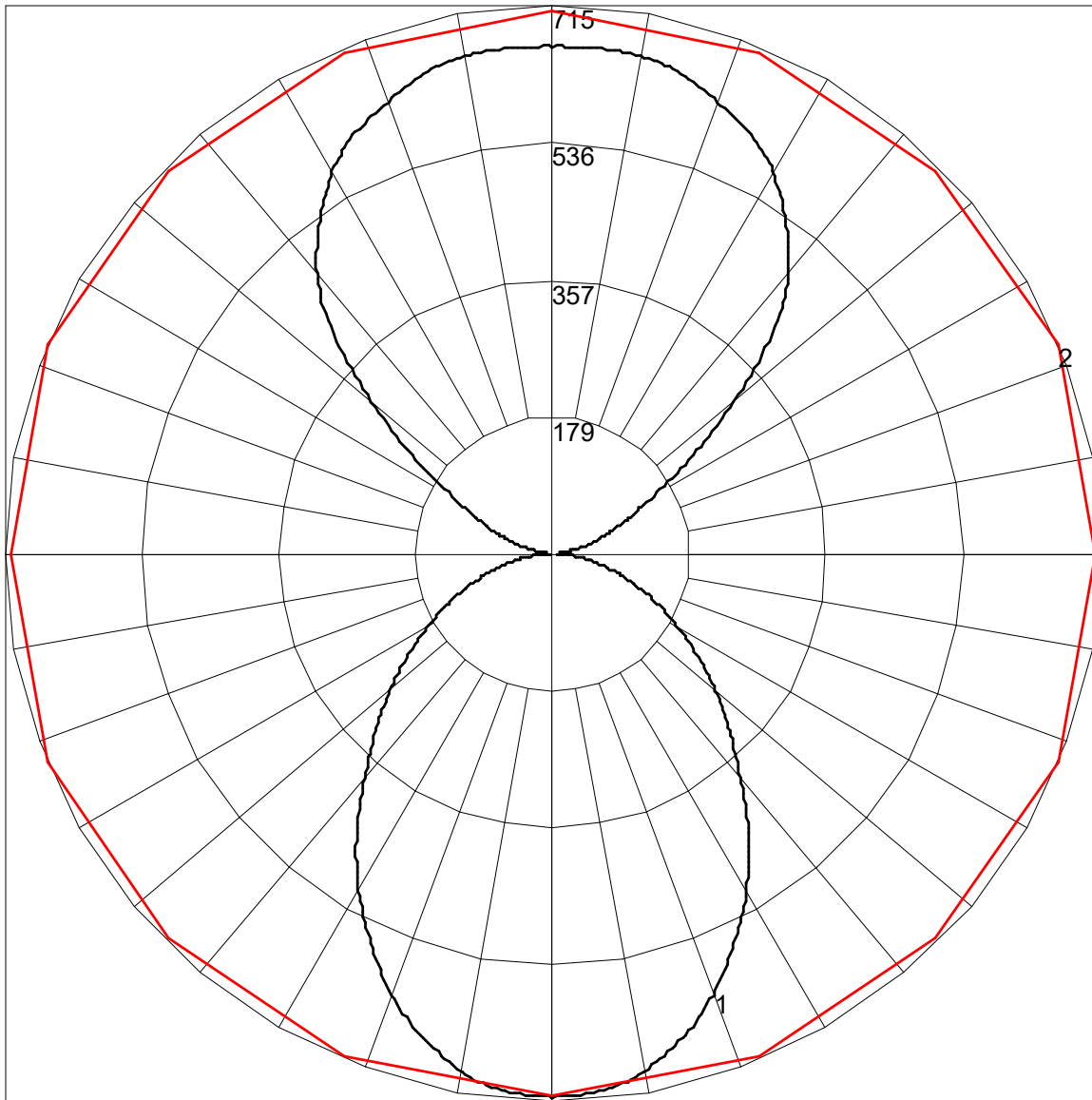
4H	2H	15.6	16.3	16.6	17.3	18.6	14.7	15.4	15.7	16.4	17.7
	3H	17.4	18.0	18.4	19.0	20.3	16.4	17.0	17.4	18.1	19.4
	4H	18.1	18.7	19.1	19.7	21.0	17.1	17.7	18.1	18.7	20.0
	6H	18.6	19.1	19.6	20.1	21.5	17.7	18.2	18.7	19.2	20.5
	8H	18.8	19.2	19.8	20.2	21.6	17.9	18.3	18.9	19.4	20.7
	12H	18.9	19.3	19.9	20.3	21.7	18.0	18.4	19.1	19.5	20.8
8H	4H	18.3	18.7	19.3	19.7	21.1	17.4	17.8	18.4	18.9	20.2
	6H	18.9	19.3	20.0	20.3	21.7	18.1	18.5	19.1	19.5	20.9
	8H	19.2	19.5	20.2	20.5	21.9	18.4	18.7	19.5	19.8	21.1
	12H	19.3	19.6	20.4	20.7	22.1	18.6	18.9	19.7	20.0	21.4
12H	4H	18.3	18.7	19.3	19.7	21.1	17.4	17.8	18.4	18.9	20.2
	6H	18.9	19.3	20.0	20.3	21.7	18.1	18.5	19.2	19.5	20.9
	8H	19.2	19.5	20.3	20.5	22.0	18.5	18.8	19.5	19.8	21.2

Maximum UGR = 22.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L4-835U-L4-835D-S-F-LPW128-DIM1-UNV_.IES

POLAR GRAPH



Maximum Candela = 714.96 Located At Horizontal Angle = 22.5, Vertical Angle = .5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)