



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13052732.16

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 7 NOV, 2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO

[LUMCAT] MX2D-8-00-L8-835-D-EM-10W EM MODE ONLY

[LUMINAIRE] Formed White aluminum housing,frosted lens enclosure

[LAMP] 144 White LEDs

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Direct, Direct-Indirect, Indirect, Linear

[_SEARCH_MOUNTING] Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1120
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	11198
Total Luminaire Watts	0.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2307	2070	2008
55	2000	1865	1857
65	1696	1694	1725
75	1354	1541	1611
85	924	1420	1413

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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	388.740	388.740	388.740	388.740	388.740
0.5	386.508	390.228	387.996	389.112	388.740
1.0	386.508	390.228	387.996	389.112	388.740
1.5	386.508	390.228	387.996	389.112	388.740
2.0	386.136	389.856	387.996	389.112	388.740
2.5	386.136	389.856	387.624	388.740	388.740
3.0	385.764	389.484	387.624	388.740	388.740
3.5	385.392	389.112	387.252	388.368	387.996
4.0	384.648	388.740	386.880	387.996	387.996
4.5	384.648	388.368	386.508	387.624	387.624
5.0	383.904	387.996	386.136	387.252	386.880
5.5	383.532	387.252	385.392	386.508	386.136
6.0	382.788	386.880	385.020	386.136	385.764
6.5	382.044	386.136	384.276	385.392	385.020
7.0	381.300	385.392	383.532	384.648	383.904
7.5	380.556	384.648	382.788	383.532	383.160
8.0	379.812	383.904	382.044	382.788	382.416
8.5	378.696	382.788	380.928	381.672	381.300
9.0	377.580	382.044	380.184	380.556	380.184
9.5	376.836	380.928	379.068	379.440	378.696
10.0	375.720	380.184	378.324	377.952	377.580
10.5	374.604	379.068	376.836	376.836	376.464
11.0	373.116	377.952	375.720	375.348	374.604
11.5	372.372	376.836	374.604	374.232	373.116
12.0	370.884	375.720	373.116	372.744	371.814
12.5	369.508	374.232	371.665	371.107	370.028
13.0	368.168	373.116	370.028	369.470	368.280
13.5	366.643	371.628	368.578	367.796	366.755
14.0	365.230	370.252	367.015	366.048	364.820
14.5	363.742	368.764	365.341	364.225	362.960
15.0	362.105	367.238	363.704	362.291	361.286
15.5	360.431	365.676	361.882	360.468	359.278
16.0	358.980	364.039	360.133	358.534	357.232
16.5	357.008	362.365	358.273	356.376	355.111
17.0	355.297	360.654	356.302	354.404	353.065
17.5	353.660	358.906	354.330	352.358	350.870
18.0	351.800	357.046	352.396	350.164	348.713
18.5	350.015	355.186	350.275	348.043	346.630
19.0	348.118	353.102	348.192	345.811	344.286
19.5	346.183	351.131	346.109	343.542	342.054
20.0	344.137	349.122	343.914	341.236	339.673
20.5	342.017	347.076	341.682	338.966	337.516
21.0	339.971	344.956	339.413	336.586	334.949
21.5	337.739	342.798	337.330	334.205	332.568
22.0	335.581	340.566	334.986	331.861	330.299
22.5	333.312	338.408	332.717	329.480	327.806
23.0	330.968	336.139	330.336	326.988	325.388
23.5	328.625	333.796	327.955	324.607	323.008
24.0	326.318	331.489	325.612	322.152	320.515
24.5	323.863	329.183	323.231	319.808	317.948
25.0	321.408	326.616	320.738	317.353	315.530
25.5	318.767	324.310	318.283	314.861	313.075
26.0	316.200	321.743	315.865	312.443	310.546
26.5	313.596	319.176	313.298	309.876	308.351

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	311.066	316.758	310.806	307.421	305.821
27.5	308.500	313.968	308.239	304.854	303.292
28.0	305.821	311.364	305.710	302.362	300.799
28.5	303.068	308.760	303.106	299.944	298.493
29.0	300.390	306.007	300.316	297.414	296.038
29.5	297.674	303.254	297.749	294.773	293.582
30.0	294.773	300.613	295.033	292.243	291.090
30.5	291.983	297.637	292.280	289.714	288.672
31.0	289.193	294.959	289.565	287.147	286.105
31.5	286.291	292.094	286.849	284.394	283.687
32.0	283.166	289.118	284.171	281.902	281.306
32.5	280.376	286.291	281.492	279.893	279.484
33.0	277.252	283.352	278.926	277.400	276.954
33.5	275.131	280.674	276.508	274.796	274.424
34.0	272.862	277.735	273.643	272.230	271.932
34.5	269.812	275.392	271.300	269.886	270.146
35.0	266.724	272.602	268.510	267.691	267.617
35.5	263.636	269.588	266.129	265.124	265.087
36.0	260.512	266.798	263.339	262.520	262.595
36.5	257.424	263.934	260.586	259.991	260.065
37.0	254.299	260.884	257.833	257.424	257.536
37.5	251.174	257.870	255.080	254.820	255.006
38.0	248.012	254.820	252.290	252.290	252.476
38.5	244.850	251.807	249.538	249.761	249.984
39.0	241.651	248.756	246.785	247.194	247.529
39.5	238.452	245.743	244.032	244.664	245.074
40.0	235.290	242.730	241.279	242.172	242.693
40.5	232.128	239.717	238.526	239.717	240.386
41.0	228.929	236.704	235.811	237.262	238.043
41.5	225.730	233.690	233.132	234.844	235.774
42.0	222.568	230.677	230.417	232.463	233.542
42.5	219.368	227.664	227.738	230.119	231.347
43.0	216.244	224.688	225.134	227.850	229.189
43.5	213.082	221.712	222.530	225.581	227.106
44.0	209.957	218.736	219.926	223.312	224.948
44.5	206.832	215.760	217.360	221.117	222.828
45.0	203.707	212.784	214.830	218.885	220.745
45.5	200.582	209.845	212.300	216.727	218.699
46.0	197.458	206.906	209.845	214.570	216.616
46.5	194.407	204.042	207.390	212.412	214.532
47.0	191.320	201.140	204.935	210.254	212.486
47.5	188.269	198.239	202.480	208.097	210.403
48.0	185.182	195.374	200.062	205.939	208.357
48.5	182.131	192.510	197.644	203.819	206.274
49.0	179.081	189.720	195.226	201.698	204.265
49.5	176.068	186.893	192.808	199.615	202.219
50.0	173.054	184.140	190.427	197.532	200.210
50.5	170.078	181.350	188.083	195.449	198.202
51.0	167.102	178.560	185.740	193.366	196.156
51.5	164.089	175.807	183.396	191.282	194.110
52.0	161.076	173.054	181.090	189.199	192.101
52.5	158.100	170.302	178.746	187.153	190.055
53.0	155.161	167.623	176.477	185.107	188.083
53.5	152.260	164.945	174.208	183.024	186.037
54.0	149.321	162.266	171.938	180.978	183.954
54.5	146.456	159.588	169.632	178.895	181.908

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CANDELA TABULATION - (Cont.)

55.0	143.555	156.910	167.363	176.812	179.899
55.5	140.690	154.268	165.056	174.728	177.853
56.0	137.863	151.627	162.824	172.682	175.807
56.5	135.073	149.023	160.555	170.599	173.761
57.0	132.246	146.456	158.323	168.479	171.752
57.5	129.456	143.815	156.054	166.396	169.669
58.0	126.666	141.248	153.785	164.275	167.549
58.5	123.950	138.682	151.553	162.192	165.503
59.0	121.198	136.115	149.358	160.109	163.457
59.5	118.519	133.622	147.163	158.026	161.411
60.0	115.804	131.093	144.968	155.980	159.365
60.5	113.125	128.600	142.774	153.934	157.356
61.0	110.447	126.108	140.579	151.850	155.310
61.5	107.843	123.616	138.421	149.842	153.301
62.0	105.239	121.198	136.264	147.796	151.330
62.5	102.672	118.742	134.143	145.824	149.321
63.0	100.068	116.324	132.023	143.815	147.386
63.5	97.538	113.944	129.865	141.806	145.378
64.0	95.009	111.563	127.745	139.798	143.406
64.5	92.516	109.182	125.662	137.789	141.397
65.0	90.024	106.801	123.578	135.780	139.426
65.5	87.569	104.458	121.495	133.808	137.454
66.0	85.114	102.188	119.412	131.800	135.594
66.5	82.696	99.882	117.329	129.828	133.622
67.0	80.278	97.576	115.283	127.819	131.651
67.5	77.897	95.306	113.200	125.810	129.642
68.0	75.553	93.037	111.154	123.802	127.670
68.5	73.172	90.805	109.108	121.830	125.736
69.0	70.866	88.573	107.062	119.821	123.727
69.5	68.522	86.341	105.016	117.850	121.756
70.0	66.216	84.146	102.970	115.841	119.784
70.5	63.947	81.952	100.961	113.832	117.812
71.0	61.678	79.757	98.878	111.823	115.804
71.5	59.446	77.636	96.869	109.852	113.832
72.0	57.214	75.479	94.897	107.880	111.860
72.5	55.019	73.358	92.926	105.908	109.926
73.0	52.824	71.238	90.954	103.937	107.954
73.5	50.704	69.118	88.945	102.002	106.057
74.0	48.546	67.072	87.011	100.068	104.123
74.5	46.426	64.988	85.076	98.134	102.263
75.0	44.380	62.980	83.142	96.236	100.403
75.5	42.334	60.971	81.245	94.376	98.580
76.0	40.325	58.999	79.348	92.516	96.757
76.5	38.316	56.990	77.450	90.656	94.897
77.0	36.382	55.056	75.590	88.834	93.149
77.5	34.447	53.159	73.768	87.011	91.400
78.0	32.587	51.262	71.945	85.225	89.689
78.5	30.764	49.402	70.159	83.440	87.941
79.0	28.942	47.579	68.374	81.691	86.267
79.5	27.156	45.756	66.588	79.943	84.593
80.0	25.445	44.008	64.840	78.194	82.919
80.5	23.771	42.259	63.091	76.483	81.245
81.0	22.097	40.548	61.380	74.735	79.608
81.5	20.497	38.874	59.632	73.061	78.008
82.0	18.935	37.200	57.958	71.387	76.409
82.5	17.447	35.563	56.209	69.713	74.809

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

83.0	15.959	33.964	54.461	68.002	73.210
83.5	14.545	32.364	52.750	66.253	71.387
84.0	13.169	30.764	51.038	63.872	67.630
84.5	11.867	29.165	49.253	59.966	63.500
85.0	10.602	27.602	47.281	55.837	59.297
85.5	9.337	25.966	44.603	51.336	54.089
86.0	8.147	24.292	40.883	45.682	47.504
86.5	6.994	22.506	36.679	39.209	40.883
87.0	5.915	20.534	31.546	32.773	34.373
87.5	4.836	18.079	25.928	26.449	27.900
88.0	3.794	14.992	20.051	20.274	21.613
88.5	2.790	11.272	14.285	14.545	15.624
89.0	1.674	7.589	9.970	11.532	13.057
89.5	0.595	4.948	7.812	10.453	12.239
90.0	0.000	3.757	7.291	9.635	11.346
90.5	0.000	4.501	8.333	10.267	11.160
91.0	0.037	6.212	11.048	13.280	14.322
91.5	0.112	8.630	14.880	17.372	18.414
92.0	0.112	10.974	18.898	21.427	22.506
92.5	0.112	12.648	22.432	25.445	26.561
93.0	0.112	13.764	25.110	29.314	30.504
93.5	0.112	14.434	27.156	32.364	34.298
94.0	0.112	14.880	28.532	34.447	36.828
94.5	0.112	15.178	29.239	36.344	38.725
95.0	0.112	15.401	29.462	37.832	40.548
95.5	0.112	15.587	29.574	38.353	41.999
96.0	0.112	15.736	29.611	38.390	42.371
96.5	0.112	15.847	29.611	38.242	42.148
97.0	0.112	15.922	29.537	38.130	41.887
97.5	0.112	15.996	29.462	38.018	41.627
98.0	0.112	16.033	29.351	37.870	41.366
98.5	0.112	16.033	29.239	37.684	41.106
99.0	0.112	16.033	29.090	37.498	40.846
99.5	0.112	16.033	28.942	37.312	40.622
100.0	0.112	15.996	28.793	37.126	40.288
100.5	0.149	15.959	28.644	36.902	40.027
101.0	0.149	15.922	28.495	36.716	39.767
101.5	0.149	15.847	28.309	36.493	39.506
102.0	0.149	15.773	28.160	36.307	39.246
102.5	0.149	15.698	28.012	36.121	38.986
103.0	0.149	15.624	27.863	35.898	38.725
103.5	0.149	15.550	27.677	35.712	38.502
104.0	0.149	15.438	27.528	35.526	38.279
104.5	0.149	15.364	27.342	35.340	38.018
105.0	0.149	15.252	27.193	35.117	37.795
105.5	0.149	15.140	27.044	34.931	37.572
106.0	0.149	15.066	26.858	34.708	37.312
106.5	0.149	14.954	26.710	34.522	37.088
107.0	0.149	14.843	26.524	34.298	36.865
107.5	0.186	14.731	26.375	34.112	36.605
108.0	0.186	14.620	26.189	33.889	36.382
108.5	0.149	14.508	26.003	33.666	36.158
109.0	0.149	14.396	25.854	33.480	35.898
109.5	0.149	14.285	25.668	33.257	35.638
110.0	0.149	14.173	25.482	33.034	35.414
110.5	0.149	14.062	25.296	32.848	35.154

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111.0	0.149	13.913	25.110	32.624	34.968
111.5	0.149	13.801	24.924	32.401	34.708
112.0	0.186	13.652	24.701	32.178	34.484
112.5	0.149	13.541	24.515	31.992	34.261
113.0	0.149	13.392	24.329	31.769	34.001
113.5	0.186	13.243	24.143	31.546	33.815
114.0	0.186	13.132	23.920	31.322	33.554
114.5	0.186	12.983	23.734	31.099	33.331
115.0	0.186	12.834	23.510	30.839	33.108
115.5	0.186	12.722	23.324	30.616	32.885
116.0	0.186	12.574	23.138	30.355	32.624
116.5	0.186	12.425	22.990	30.132	32.401
117.0	0.186	12.313	22.841	29.909	32.141
117.5	0.186	12.164	22.692	29.648	31.880
118.0	0.186	12.053	22.543	29.425	31.620
118.5	0.186	11.904	22.394	29.165	31.397
119.0	0.186	11.792	22.283	28.904	31.099
119.5	0.186	11.644	22.171	28.644	30.839
120.0	0.186	11.532	22.097	28.384	30.616
120.5	0.186	11.383	21.985	28.123	30.355
121.0	0.186	11.272	21.911	27.900	30.058
121.5	0.186	11.160	21.836	27.640	29.797
122.0	0.186	11.011	21.762	27.379	29.537
122.5	0.186	10.900	21.688	27.119	29.276
123.0	0.186	10.751	21.613	26.858	29.016
123.5	0.186	10.565	21.502	26.598	28.756
124.0	0.186	10.379	21.427	26.375	28.495
124.5	0.186	10.230	21.316	26.114	28.235
125.0	0.149	10.044	21.167	25.891	28.012
125.5	0.149	9.858	21.018	25.668	27.751
126.0	0.112	9.672	20.832	25.445	27.454
126.5	0.074	9.523	20.646	25.296	27.230
127.0	0.112	9.374	20.423	25.110	26.933
127.5	0.112	9.226	20.237	24.961	26.672
128.0	0.112	9.114	20.014	24.850	26.412
128.5	0.112	9.002	19.753	24.775	26.189
129.0	0.112	8.891	19.530	24.664	25.966
129.5	0.112	8.742	19.270	24.626	25.780
130.0	0.149	8.630	19.046	24.552	25.594
130.5	0.149	8.519	18.786	24.478	25.482
131.0	0.186	8.370	18.563	24.403	25.333
131.5	0.186	8.258	18.302	24.292	25.259
132.0	0.186	8.147	18.042	24.180	25.184
132.5	0.186	8.035	17.819	24.031	25.110
133.0	0.186	7.886	17.558	23.845	25.073
133.5	0.186	7.775	17.335	23.622	24.998
134.0	0.186	7.663	17.075	23.399	24.924
134.5	0.186	7.552	16.852	23.138	24.812
135.0	0.186	7.440	16.628	22.878	24.626
135.5	0.149	7.328	16.405	22.580	24.440
136.0	0.149	7.180	16.182	22.283	24.254
136.5	0.149	7.068	15.922	21.985	23.994
137.0	0.186	6.882	15.698	21.688	23.734
137.5	0.186	6.696	15.475	21.390	23.436
138.0	0.186	6.510	15.252	21.092	23.138
138.5	0.186	6.361	15.029	20.795	22.804

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CANDELA TABULATION - (Cont.)

139.0	0.186	6.250	14.806	20.460	22.469
139.5	0.186	6.138	14.582	20.162	22.134
140.0	0.186	6.026	14.359	19.865	21.836
140.5	0.186	5.915	14.136	19.530	21.502
141.0	0.186	5.766	13.913	19.232	21.167
141.5	0.186	5.580	13.690	18.935	20.832
142.0	0.186	5.431	13.466	18.637	20.534
142.5	0.186	5.282	13.243	18.340	20.200
143.0	0.223	5.096	13.020	18.042	19.865
143.5	0.223	4.910	12.760	17.744	19.530
144.0	0.223	4.724	12.536	17.447	19.232
144.5	0.223	4.576	12.276	17.149	18.898
145.0	0.223	4.427	12.016	16.852	18.600
145.5	0.223	4.278	11.718	16.554	18.265
146.0	0.223	4.129	11.458	16.256	17.930
146.5	0.223	4.018	11.197	15.959	17.596
147.0	0.223	3.943	10.900	15.698	17.298
147.5	0.260	3.832	10.639	15.401	16.963
148.0	0.260	3.757	10.379	15.103	16.666
148.5	0.260	3.646	10.081	14.806	16.331
149.0	0.260	3.571	9.821	14.508	16.033
149.5	0.298	3.497	9.560	14.210	15.698
150.0	0.298	3.385	9.300	13.913	15.364
150.5	0.335	3.311	9.040	13.615	15.029
151.0	0.335	3.236	8.779	13.318	14.694
151.5	0.335	3.125	8.482	13.020	14.359
152.0	0.335	3.050	8.184	12.722	14.024
152.5	0.335	2.976	7.849	12.425	13.727
153.0	0.335	2.902	7.514	12.127	13.392
153.5	0.335	2.827	7.291	11.830	13.057
154.0	0.335	2.753	7.105	11.532	12.722
154.5	0.335	2.678	6.919	11.234	12.425
155.0	0.372	2.604	6.733	10.937	12.090
155.5	0.372	2.530	6.510	10.639	11.755
156.0	0.372	2.455	6.287	10.342	11.458
156.5	0.372	2.344	6.026	10.044	11.160
157.0	0.372	2.269	5.766	9.709	10.825
157.5	0.372	2.195	5.468	9.374	10.528
158.0	0.372	2.120	5.208	9.040	10.193
158.5	0.372	2.009	4.948	8.705	9.895
159.0	0.372	1.934	4.762	8.370	9.598
159.5	0.409	1.860	4.576	8.035	9.263
160.0	0.409	1.786	4.427	7.700	8.965
160.5	0.409	1.711	4.315	7.366	8.668
161.0	0.409	1.637	4.166	6.919	8.370
161.5	0.409	1.562	4.055	6.436	8.035
162.0	0.409	1.525	3.906	6.064	7.700
162.5	0.409	1.451	3.757	5.729	7.328
163.0	0.409	1.414	3.646	5.357	6.919
163.5	0.409	1.339	3.497	5.022	6.547
164.0	0.409	1.302	3.348	4.762	6.175
164.5	0.446	1.228	3.199	4.501	5.803
165.0	0.446	1.190	3.050	4.278	5.506
165.5	0.446	1.116	2.902	4.055	5.245
166.0	0.446	1.079	2.716	3.869	4.985
166.5	0.446	1.004	2.567	3.720	4.724

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

167.0	0.446	0.967	2.418	3.497	4.501
167.5	0.446	0.893	2.269	3.311	4.166
168.0	0.484	0.856	2.120	3.125	3.906
168.5	0.484	0.781	1.972	2.902	3.720
169.0	0.484	0.744	1.823	2.678	3.497
169.5	0.484	0.707	1.674	2.455	3.274
170.0	0.484	0.670	1.562	2.232	3.013
170.5	0.484	0.632	1.451	2.046	2.716
171.0	0.484	0.595	1.339	1.823	2.492
171.5	0.484	0.558	1.265	1.637	2.232
172.0	0.484	0.558	1.153	1.451	2.009
172.5	0.484	0.558	1.042	1.302	1.748
173.0	0.484	0.521	0.930	1.190	1.525
173.5	0.484	0.521	0.818	1.079	1.376
174.0	0.484	0.521	0.707	0.930	1.153
174.5	0.484	0.521	0.632	0.818	0.893
175.0	0.484	0.521	0.558	0.707	0.781
175.5	0.484	0.484	0.521	0.595	0.595
176.0	0.484	0.484	0.484	0.521	0.409
176.5	0.484	0.484	0.484	0.484	0.372
177.0	0.484	0.484	0.484	0.446	0.372
177.5	0.484	0.484	0.484	0.446	0.335
178.0	0.484	0.484	0.484	0.409	0.335
178.5	0.484	0.484	0.484	0.409	0.335
179.0	0.484	0.484	0.484	0.409	0.335
179.5	0.484	0.484	0.446	0.409	0.335
180.0	0.446	0.446	0.446	0.446	0.446

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	138.97	N.A.	12.40
0-30	286.58	N.A.	25.60
0-40	454.59	N.A.	40.60
0-60	768.81	N.A.	68.70
0-80	971.45	N.A.	86.80
0-90	1011.62	N.A.	90.30
10-90	974.98	N.A.	87.10
20-40	315.62	N.A.	28.20
20-50	481.51	N.A.	43.00
40-70	433.43	N.A.	38.70
60-80	202.64	N.A.	18.10
70-80	83.43	N.A.	7.50
80-90	40.17	N.A.	3.60
90-110	49.07	N.A.	4.40
90-120	69.91	N.A.	6.20
90-130	85.90	N.A.	7.70
90-150	104.11	N.A.	9.30
90-180	108.20	N.A.	9.70
110-180	59.13	N.A.	5.30
0-180	1119.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.64
10-20	102.33
20-30	147.61
30-40	168.01
40-50	165.89
50-60	148.32
60-70	119.21
70-80	83.43
80-90	40.17
90-100	23.55
100-110	25.53
110-120	20.84
120-130	15.99
130-140	11.44
140-150	6.77
150-160	3.12
160-170	0.89
170-180	0.09

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.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	111	111	111	111	107	107	107	107	101	101	101	94	94	94	89	89	89	86
1	101	96	92	88	97	93	89	85	87	84	81	82	79	77	77	75	73	70
2	91	83	77	71	88	81	75	70	76	71	67	71	67	64	67	64	61	58
3	83	73	65	59	80	71	64	58	67	61	56	63	58	54	59	55	52	49
4	76	65	57	50	73	63	55	49	59	53	48	56	51	46	53	48	44	42
5	70	58	50	43	68	56	49	43	53	47	41	51	45	40	48	43	39	37
6	65	52	44	38	63	51	43	37	48	41	36	46	40	35	44	38	34	32
7	60	48	39	33	58	46	39	33	44	37	32	42	36	31	40	35	31	28
8	56	43	35	30	54	42	35	30	40	34	29	38	33	28	37	31	27	26
9	52	40	32	27	51	39	32	27	37	31	26	36	30	25	34	29	25	23
10	49	37	29	25	48	36	29	24	34	28	24	33	27	23	32	26	23	21

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2D-8-00-L8-835-D-EM-10W_EM MODE ONLY.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

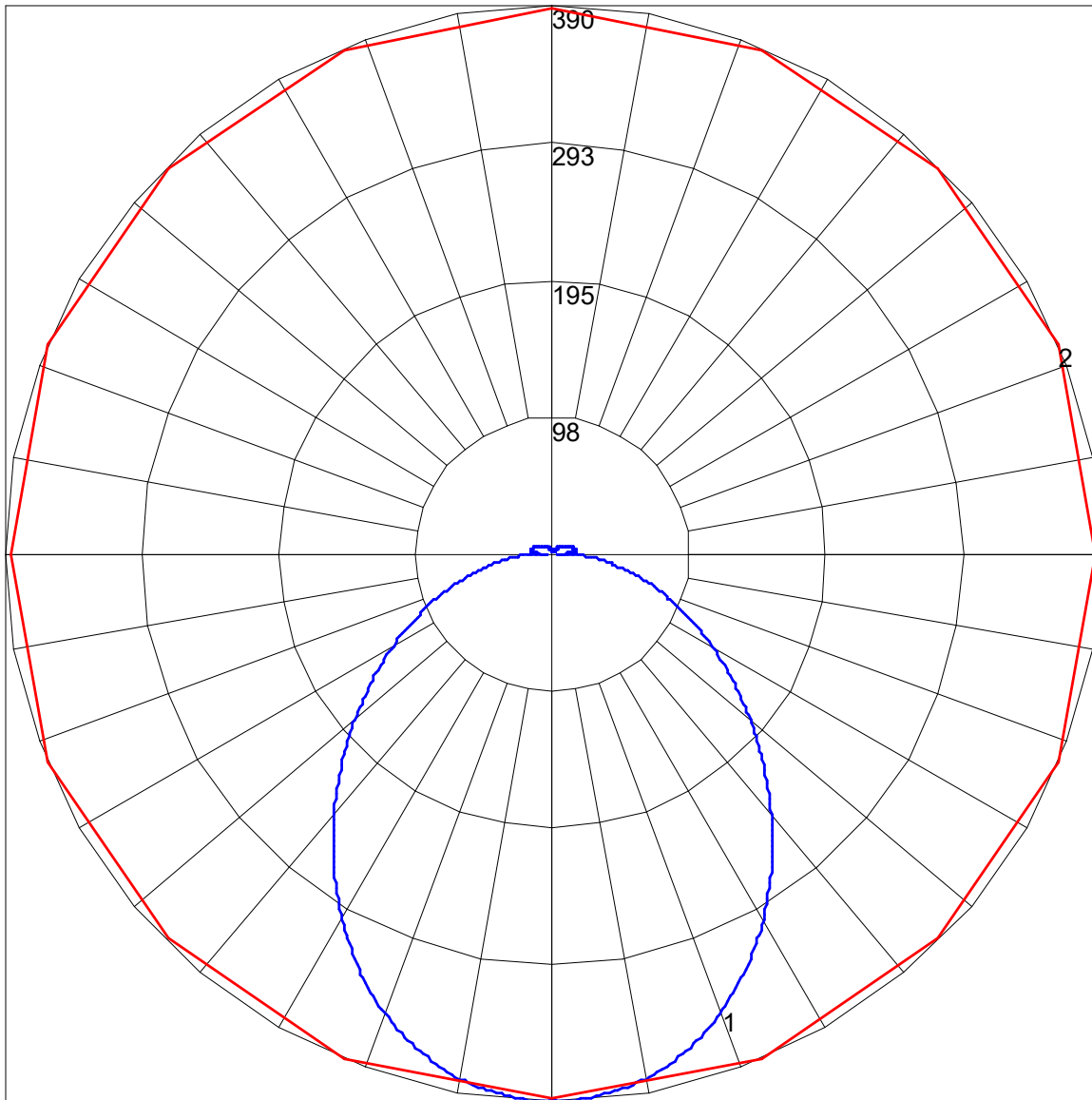
X=2H	Y=2H	12.6	14.0	13.1	14.5	15.1	14.4	15.9	15.0	16.4	16.9
	3H	14.0	15.3	14.5	15.8	16.4	16.8	18.1	17.3	18.6	19.2
	4H	14.4	15.6	15.0	16.2	16.8	17.9	19.1	18.5	19.7	20.3
	6H	14.7	15.8	15.2	16.4	17.0	19.1	20.2	19.6	20.8	21.4
	8H	14.7	15.8	15.3	16.4	17.0	19.7	20.7	20.2	21.3	21.9
	12H	14.8	15.8	15.3	16.3	17.0	20.3	21.3	20.8	21.9	22.5

UGR Viewed Endwise

4H	2H	13.5	14.7	14.0	15.2	15.8	14.9	16.1	15.5	16.7	17.3
	3H	15.1	16.2	15.7	16.7	17.4	17.5	18.5	18.1	19.1	19.7
	4H	15.7	16.7	16.3	17.2	17.9	18.8	19.7	19.4	20.3	21.0
	6H	16.1	16.9	16.7	17.5	18.2	20.1	20.9	20.7	21.5	22.2
	8H	16.2	17.0	16.8	17.6	18.3	20.8	21.6	21.4	22.2	22.9
	12H	16.3	17.0	16.9	17.6	18.3	21.5	22.2	22.1	22.8	23.5
8H	4H	16.4	17.2	17.0	17.8	18.5	19.0	19.8	19.6	20.4	21.1
	6H	17.0	17.6	17.6	18.3	19.0	20.5	21.2	21.2	21.8	22.5
	8H	17.2	17.8	17.8	18.4	19.1	21.3	21.9	22.0	22.6	23.3
	12H	17.3	17.8	18.0	18.5	19.2	22.2	22.7	22.9	23.4	24.1
12H	4H	16.5	17.3	17.2	17.9	18.6	19.0	19.7	19.6	20.3	21.0
	6H	17.3	17.8	17.9	18.5	19.2	20.6	21.1	21.2	21.8	22.5
	8H	17.6	18.1	18.2	18.7	19.5	21.5	22.0	22.1	22.6	23.4

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 390.228 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)