



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from UL #15492554.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 7 OCT, 2024
[TESTDATE] 9/24/2024
[MANUFAC] H E WILLIAMS INC
[LUMCAT] MX2D-4'00-L4/835-S-FA-DIM-UNV
[LUMINAIRE] White rectangular light fixture with frosted lens, surface
[MORE] mount fixture
[LAMP] 2 modules with 72 LEDs each
[BALLAST] OTI 50/120-277/1A4 DIM1 L G2
[OTHER] 25.9 C, 120.136 V, 0.323686 A, 38.3666 W, 0.986633 PF, 59.9709
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[OTHER] The reported results were measured in a facility that meets th
[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de
[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	13.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8419	7583	5373
55	7872	7275	5008
65	7050	6687	4536
75	5726	5529	3795
85	3569	3279	2176

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	417.572	417.572	417.572	417.572	417.572	417.572	417.572	417.572	417.572
0.5	417.572	418.829	417.572	417.886	413.487	417.886	417.258	418.514	417.572
1.0	417.886	419.143	417.886	418.200	413.487	417.572	417.258	418.200	417.572
1.5	418.200	419.771	418.200	418.200	413.173	417.258	416.943	418.200	417.572
2.0	418.514	420.400	418.514	418.200	412.859	416.943	416.943	418.200	417.886
2.5	419.143	420.714	418.829	418.200	412.859	416.629	416.629	418.200	417.886
3.0	419.771	421.342	419.143	418.200	412.545	416.315	416.629	418.200	417.886
3.5	420.714	421.971	419.143	417.886	412.230	416.001	416.315	418.200	418.200
4.0	421.656	422.599	419.457	417.886	411.602	415.687	416.001	418.200	418.200
4.5	422.913	423.227	419.771	417.572	411.288	415.058	415.687	418.514	418.200
5.0	423.856	424.170	420.085	417.572	410.659	414.744	415.687	418.514	418.514
5.5	425.113	424.798	420.400	417.258	410.031	414.116	415.687	418.829	418.514
6.0	426.055	425.427	420.400	416.943	409.403	413.487	415.372	418.829	418.829
6.5	426.998	426.369	420.714	416.315	408.774	412.859	415.058	419.143	419.143
7.0	427.940	426.998	421.028	416.001	407.832	412.230	414.744	419.143	419.457
7.5	429.197	427.940	421.342	415.687	407.203	411.602	414.430	419.457	419.771
8.0	430.140	428.883	421.342	415.058	406.261	410.659	414.116	419.771	420.400
8.5	430.768	429.826	421.656	414.744	405.318	410.031	413.801	420.085	421.028
9.0	431.711	430.454	421.656	413.801	404.061	409.088	413.801	420.085	421.656
9.5	432.653	431.397	421.971	413.487	403.119	408.146	413.487	420.400	421.971
10.0	433.910	432.339	421.971	412.545	401.862	407.203	413.173	420.714	422.599
10.5	434.853	433.282	422.285	411.916	400.605	406.261	412.859	420.714	423.227
11.0	436.110	434.224	422.285	410.974	399.348	405.318	412.545	421.028	423.542
11.5	437.052	435.167	422.285	410.345	398.091	404.375	412.230	421.028	423.856
12.0	438.623	436.110	422.285	409.403	396.520	403.119	411.916	421.342	424.170
12.5	439.880	436.738	422.599	408.774	395.264	402.176	411.602	421.342	424.484
13.0	441.137	437.681	422.599	407.832	393.693	401.233	410.974	421.342	424.484
13.5	442.394	438.309	422.285	406.889	392.122	399.977	410.659	421.656	424.484
14.0	443.650	439.252	422.599	405.632	390.865	398.720	410.031	421.342	424.484
14.5	444.907	440.194	422.285	404.690	388.980	397.463	409.403	421.342	424.484
15.0	445.850	441.137	422.285	403.747	387.409	396.206	408.774	421.028	424.484
15.5	446.792	441.765	422.285	402.490	385.838	394.949	408.146	421.028	424.170
16.0	447.735	442.394	421.971	401.233	384.267	393.378	407.517	420.714	423.856
16.5	448.678	443.336	421.971	399.977	382.381	392.122	406.889	420.085	423.856
17.0	449.620	443.965	421.656	398.720	380.496	390.551	405.946	419.771	423.542
17.5	450.563	444.279	421.342	397.463	378.611	388.980	405.004	419.143	422.913
18.0	451.505	444.907	421.028	395.892	376.726	387.409	404.061	418.514	422.285
18.5	452.134	445.536	420.714	394.635	374.841	385.838	403.119	417.572	421.342
19.0	453.076	445.850	420.400	393.378	372.955	383.952	401.862	416.943	420.714
19.5	453.391	446.478	420.085	391.807	370.756	382.381	400.919	416.001	419.771
20.0	454.019	446.792	419.457	390.236	368.871	380.810	399.662	415.058	418.514
20.5	454.647	447.107	419.143	388.665	366.671	378.925	398.406	413.801	417.258
21.0	455.276	447.735	418.514	387.094	364.472	377.040	397.463	412.545	416.001
21.5	455.904	448.049	417.886	385.523	362.273	375.469	395.892	411.288	414.744
22.0	456.218	448.363	417.572	383.952	360.073	373.270	394.635	410.031	413.487
22.5	456.533	448.678	416.943	382.381	357.874	371.384	393.378	408.774	411.916
23.0	457.161	448.992	416.315	380.810	355.674	369.813	391.807	407.203	410.345
23.5	457.475	449.306	415.687	378.925	353.161	367.614	390.551	405.632	408.774
24.0	458.104	449.306	415.372	377.354	350.961	365.729	388.980	404.061	406.889
24.5	458.418	449.306	414.430	375.469	348.448	363.844	387.409	402.804	405.318
25.0	458.732	449.306	413.801	373.898	346.248	361.644	385.838	400.919	403.433
25.5	459.046	448.992	413.173	371.699	343.735	359.445	384.267	399.034	401.233
26.0	458.732	448.678	412.230	370.128	341.221	357.245	382.381	397.463	399.348
26.5	458.732	448.363	411.288	368.242	338.708	355.360	380.810	395.578	397.149

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CANDELA TABULATION - (Cont.)

27.0	458.418	447.735	410.345	366.357	336.194	353.161	378.925	393.378	394.635
27.5	458.104	447.107	409.403	364.472	333.680	350.961	377.040	391.493	392.436
28.0	457.475	446.164	408.460	362.273	331.167	348.762	375.155	389.294	389.922
28.5	456.533	445.536	407.203	360.387	328.653	346.248	373.270	387.094	387.409
29.0	455.590	444.593	405.946	358.188	326.140	344.049	371.384	384.895	384.895
29.5	454.647	443.650	404.690	355.989	323.626	341.850	369.185	382.381	382.067
30.0	453.705	442.708	403.433	353.789	320.798	339.336	366.986	379.868	379.554
30.5	452.448	441.451	401.862	351.590	318.285	337.137	364.786	377.354	376.726
31.0	451.191	440.194	400.605	349.390	315.771	334.623	362.587	374.841	373.898
31.5	449.620	438.623	399.034	347.191	312.975	332.424	360.387	372.013	371.070
32.0	448.049	437.366	397.463	344.992	310.304	329.596	357.874	369.499	368.242
32.5	446.164	435.795	395.892	342.478	307.508	327.396	355.674	366.671	365.415
33.0	444.279	434.224	394.007	340.279	304.868	324.883	353.161	363.844	362.587
33.5	442.394	432.339	392.122	337.765	302.072	322.369	350.961	361.016	359.759
34.0	440.194	430.454	390.236	335.251	299.370	319.856	348.134	358.188	356.617
34.5	437.995	428.255	388.351	332.738	296.542	317.028	345.620	355.360	353.789
35.0	435.481	426.055	386.466	330.224	293.651	314.514	343.106	352.532	350.647
35.5	433.282	423.856	384.581	327.711	290.886	311.781	340.593	349.390	347.505
36.0	430.768	421.971	382.381	325.197	288.027	309.141	337.765	346.248	344.363
36.5	427.940	419.457	380.182	322.683	285.199	306.439	335.251	343.421	340.907
37.0	425.427	416.943	377.983	319.856	282.372	303.800	332.424	339.964	337.451
37.5	422.599	414.430	375.469	317.342	279.418	301.129	329.596	336.508	333.995
38.0	419.771	411.602	373.270	314.514	276.622	298.333	326.768	333.366	330.224
38.5	416.629	408.774	370.756	311.844	273.857	295.505	324.254	329.910	326.768
39.0	413.487	405.946	368.242	309.110	270.998	292.866	321.427	326.768	323.312
39.5	410.345	403.119	365.415	306.408	268.138	290.007	318.285	323.312	319.856
40.0	407.203	399.977	362.587	303.674	265.248	287.116	315.457	319.856	315.771
40.5	403.433	396.835	360.073	300.847	262.231	284.288	312.346	316.399	312.346
41.0	400.291	393.693	357.245	298.019	259.372	281.366	309.298	313.006	308.576
41.5	396.520	390.551	354.418	295.097	256.481	278.475	306.219	309.518	304.963
42.0	393.064	387.094	351.590	292.237	253.591	275.648	303.297	305.999	301.412
42.5	389.294	383.638	348.762	289.315	250.637	272.788	300.155	302.512	297.642
43.0	385.523	380.182	345.620	286.425	247.778	269.898	296.950	298.804	293.808
43.5	381.753	376.726	342.478	283.251	244.919	266.819	293.588	295.222	290.007
44.0	377.983	372.955	339.336	280.361	241.965	263.834	290.384	291.452	286.268
44.5	373.898	369.185	336.194	277.344	238.918	260.849	287.242	287.996	282.466
45.0	369.813	365.415	333.052	274.328	235.996	257.927	283.943	284.382	278.444
45.5	365.729	361.644	329.910	271.312	233.262	254.848	280.706	280.706	274.736
46.0	361.644	357.560	326.454	268.327	230.403	251.831	277.313	277.030	270.935
46.5	357.560	353.475	323.312	265.153	228.581	248.784	274.077	273.165	266.976
47.0	353.161	349.705	319.856	261.949	225.627	245.767	270.715	269.269	263.237
47.5	348.762	345.620	316.399	258.838	222.768	242.688	267.353	265.530	259.089
48.0	344.363	341.535	312.723	255.759	219.846	239.735	264.054	261.760	255.225
48.5	339.964	337.451	309.141	252.523	216.829	236.498	260.597	258.021	251.391
49.0	335.566	333.052	305.591	249.318	213.813	233.576	257.110	254.345	247.810
49.5	331.481	328.653	301.978	246.207	210.828	230.623	253.654	250.543	244.008
50.0	326.768	324.569	298.239	242.908	207.969	228.298	250.166	246.804	240.174
50.5	322.369	320.170	294.594	239.578	205.016	225.533	246.647	243.002	236.310
51.0	317.656	315.771	290.855	236.373	202.093	222.359	243.191	239.200	232.602
51.5	313.320	311.404	286.990	233.136	199.140	219.186	239.640	235.493	229.806
52.0	308.670	306.942	283.157	230.152	196.186	216.044	236.184	231.974	226.350
52.5	304.051	302.543	279.135	227.387	193.264	212.871	232.665	228.832	222.611
53.0	299.370	298.082	275.176	224.527	190.342	209.634	229.586	225.816	218.840
53.5	294.720	293.494	271.155	221.228	187.326	206.429	226.444	222.014	215.070
54.0	289.975	288.844	267.133	217.866	184.278	203.225	223.082	218.180	211.205
54.5	285.356	284.351	263.143	214.442	181.356	199.957	219.406	214.379	207.341

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CANDELA TABULATION - (Cont.)

55.0	280.486	279.764	259.184	211.111	178.434	196.721	215.730	210.640	203.664
55.5	275.616	275.145	255.256	207.749	175.481	193.484	212.116	206.838	199.706
56.0	270.872	270.589	251.046	204.356	172.496	190.248	208.566	203.162	196.061
56.5	266.065	265.782	246.773	200.962	169.542	186.980	204.953	199.328	192.290
57.0	261.446	261.069	242.594	197.506	166.526	183.744	201.308	195.495	188.489
57.5	256.419	256.387	238.478	194.019	163.635	180.445	197.663	191.693	184.624
58.0	251.391	251.454	234.299	190.562	160.619	177.209	194.019	187.986	180.854
58.5	246.584	246.710	230.403	187.169	157.666	173.941	190.499	184.184	177.115
59.0	241.651	241.965	226.884	183.681	154.681	170.611	186.918	180.445	173.438
59.5	236.844	237.252	223.019	180.194	151.633	167.312	183.179	176.643	169.668
60.0	232.005	232.697	218.746	176.706	148.648	163.981	179.502	172.873	165.898
60.5	227.921	228.455	214.504	173.187	145.695	160.650	175.763	169.197	162.159
61.0	223.773	224.119	210.200	169.699	142.741	157.414	172.056	165.583	158.482
61.5	218.809	219.312	205.864	166.212	139.850	154.147	168.348	161.844	154.775
62.0	213.939	214.504	201.465	162.693	136.897	150.942	164.829	158.137	151.256
62.5	209.194	209.603	197.066	159.142	133.912	147.674	161.185	154.398	147.705
63.0	204.387	204.733	192.856	155.623	130.864	144.343	157.540	150.627	144.061
63.5	199.611	199.863	188.489	152.041	127.879	141.076	153.927	146.951	140.447
64.0	194.804	195.087	184.215	148.585	124.926	137.777	150.219	143.338	136.834
64.5	189.902	190.342	179.911	145.098	121.941	134.572	146.574	139.725	133.284
65.0	185.064	185.661	175.544	141.641	119.082	131.367	143.118	136.080	130.047
65.5	180.194	180.822	171.208	138.091	116.223	128.037	139.442	132.467	126.623
66.0	175.449	175.858	166.715	134.603	113.301	124.706	135.860	128.885	123.104
66.5	170.548	171.145	162.159	131.053	110.347	121.501	132.121	125.272	119.365
67.0	165.803	166.306	157.791	127.565	107.456	118.233	128.445	121.690	115.971
67.5	161.122	161.562	153.455	123.983	104.534	115.060	124.800	118.139	112.484
68.0	156.440	156.817	149.056	120.590	101.581	111.824	121.156	114.652	108.965
68.5	151.790	152.073	144.815	117.102	98.596	108.493	117.542	111.070	105.665
69.0	146.920	147.423	140.605	113.646	95.642	105.131	113.898	107.551	102.241
69.5	142.081	142.678	136.237	110.190	92.752	101.832	110.316	104.000	98.659
70.0	137.337	138.059	131.775	106.765	89.798	98.627	106.734	100.450	95.360
70.5	132.687	133.441	127.440	103.309	86.939	95.454	103.152	97.119	92.061
71.0	127.974	128.791	123.104	99.884	84.080	92.249	99.601	93.694	88.730
71.5	123.355	124.078	118.768	96.397	81.189	89.013	96.051	90.238	85.305
72.0	118.736	119.396	114.369	92.878	78.299	85.777	92.438	86.782	82.038
72.5	114.243	114.840	110.001	89.358	75.282	82.509	88.887	83.326	78.801
73.0	109.719	110.284	105.728	85.934	72.329	79.210	85.337	79.964	75.628
73.5	105.194	105.791	101.424	82.540	69.470	76.036	81.818	76.602	72.517
74.0	100.701	101.392	97.308	79.178	66.610	72.989	78.361	73.303	69.375
74.5	96.365	96.994	93.097	75.691	63.751	69.815	75.000	70.004	66.233
75.0	92.061	92.563	88.887	72.329	61.018	66.705	71.638	66.768	63.060
75.5	87.819	88.133	84.740	68.967	58.158	63.563	68.276	63.500	60.044
76.0	83.766	83.797	80.624	65.636	55.331	60.452	64.914	60.295	56.996
76.5	79.587	79.524	76.571	62.337	52.566	57.499	61.552	57.216	54.011
77.0	75.408	75.282	72.706	59.070	49.769	54.482	58.190	54.105	51.120
77.5	71.323	71.198	68.841	55.865	47.067	51.497	54.954	51.120	48.261
78.0	67.333	67.082	64.945	52.597	44.428	48.450	51.749	48.104	45.433
78.5	63.374	63.060	60.986	49.487	41.789	45.528	48.638	45.182	42.606
79.0	59.478	59.101	57.184	46.345	39.118	42.606	45.559	42.197	39.903
79.5	55.802	55.236	53.414	43.297	36.510	39.778	42.574	39.401	37.201
80.0	52.189	51.466	49.832	40.375	33.996	37.076	39.589	36.636	34.593
80.5	48.607	47.790	46.219	37.358	31.483	34.342	36.636	33.934	32.111
81.0	45.025	44.145	42.731	34.468	29.032	31.671	33.839	31.326	29.566
81.5	41.474	40.532	39.306	31.640	26.581	28.969	31.074	28.718	27.147
82.0	37.987	37.013	35.913	28.875	24.193	26.424	28.341	26.204	24.790
82.5	34.719	33.682	32.583	26.173	21.963	23.973	25.670	23.848	22.465

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83.0	31.451	30.509	29.535	23.659	19.700	21.554	23.188	21.523	20.266
83.5	28.278	27.335	26.487	21.114	17.658	19.229	20.737	19.229	18.098
84.0	25.199	24.225	23.471	18.726	15.647	16.967	18.349	17.030	16.024
84.5	22.277	21.240	20.580	16.433	13.668	14.862	16.087	14.925	14.045
85.0	19.323	18.349	17.752	14.202	11.783	12.851	13.856	12.882	12.128
85.5	16.527	15.647	15.113	12.065	9.992	10.903	11.751	10.934	10.243
86.0	13.888	13.134	12.631	10.054	8.295	9.112	9.772	9.175	8.483
86.5	11.437	10.683	10.274	8.138	6.724	7.352	7.949	7.478	6.912
87.0	9.143	8.421	8.106	6.378	5.341	5.781	6.284	5.876	5.404
87.5	6.975	6.315	6.095	4.807	4.053	4.336	4.713	4.399	3.959
88.0	5.027	4.430	4.305	3.393	2.891	3.079	3.299	3.079	2.734
88.5	3.331	2.828	2.796	2.168	1.917	2.011	2.105	1.979	1.728
89.0	1.948	1.540	1.602	1.257	1.163	1.163	1.163	1.005	0.754
89.5	0.911	0.691	0.691	0.628	0.566	0.566	0.503	0.408	0.251
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.98	N.A.	12.70
0-30	339.09	N.A.	27.50
0-40	560.89	N.A.	45.50
0-60	988.41	N.A.	80.20
0-80	1214.83	N.A.	98.50
0-90	1232.91	N.A.	100.00
10-90	1193.04	N.A.	96.80
20-40	403.91	N.A.	32.80
20-50	631.23	N.A.	51.20
40-70	574.66	N.A.	46.60
60-80	226.42	N.A.	18.40
70-80	79.28	N.A.	6.40
80-90	18.08	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1232.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.87
10-20	117.12
20-30	182.11
30-40	221.80
40-50	227.32
50-60	200.20
60-70	147.15
70-80	79.28
80-90	18.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-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	37	37	37	37	37	37	37	37	35	35	35	33	33	33	32	32	32	31
1	34	33	31	30	33	32	31	30	31	30	29	29	29	28	28	28	27	26
2	31	29	26	25	30	28	26	24	27	25	24	26	24	23	25	24	23	22
3	28	25	23	21	28	25	22	20	24	22	20	23	21	20	22	21	19	19
4	26	22	19	17	25	22	19	17	21	19	17	20	18	17	20	18	17	16
5	24	20	17	15	23	20	17	15	19	17	15	18	16	15	18	16	14	14
6	22	18	15	13	21	18	15	13	17	15	13	16	14	13	16	14	13	12
7	20	16	13	12	20	16	13	11	15	13	11	15	13	11	15	13	11	11
8	19	15	12	10	19	15	12	10	14	12	10	14	12	10	13	11	10	9
9	18	14	11	9	17	13	11	9	13	11	9	13	11	9	12	10	9	8
10	17	12	10	8	16	12	10	8	12	10	8	12	10	8	11	10	8	8

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-835-FA-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	24.1	25.8	24.5	26.1	26.4	21.8	23.4	22.1	23.7	24.0
	3H	25.8	27.3	26.2	27.6	28.0	23.4	24.9	23.8	25.2	25.6
	4H	26.4	27.8	26.8	28.1	28.5	24.0	25.3	24.4	25.7	26.1
	6H	26.8	28.1	27.2	28.4	28.8	24.3	25.6	24.7	26.0	26.4
	8H	26.9	28.1	27.3	28.5	28.9	24.4	25.6	24.8	26.0	26.4
	12H	27.0	28.1	27.4	28.5	28.9	24.5	25.6	24.9	26.0	26.4

UGR Viewed Endwise

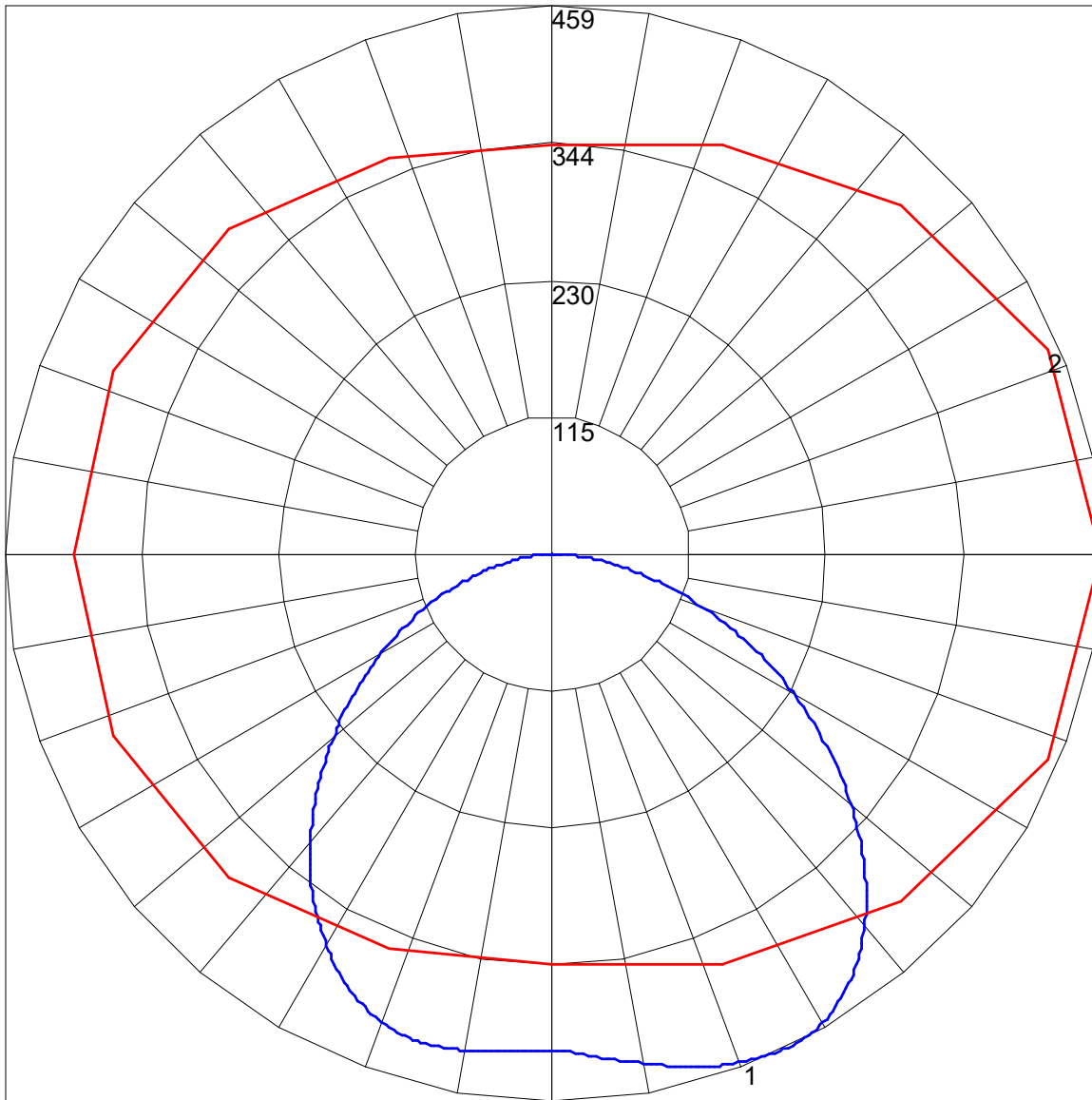
4H	2H	24.6	26.0	25.0	26.4	26.8	22.7	24.1	23.1	24.4	24.8
	3H	26.6	27.7	27.0	28.1	28.5	24.5	25.7	24.9	26.1	26.5
	4H	27.3	28.3	27.7	28.7	29.2	25.2	26.2	25.6	26.6	27.1
	6H	27.8	28.7	28.2	29.1	29.6	25.6	26.6	26.1	27.0	27.5
	8H	27.9	28.8	28.4	29.2	29.7	25.8	26.6	26.2	27.1	27.5
	12H	28.0	28.8	28.5	29.3	29.7	25.8	26.6	26.3	27.1	27.5

8H	4H	27.5	28.4	28.0	28.8	29.3	25.6	26.4	26.0	26.9	27.3
	6H	28.1	28.8	28.6	29.3	29.8	26.1	26.8	26.6	27.3	27.8
	8H	28.3	29.0	28.8	29.5	29.9	26.3	26.9	26.8	27.4	27.9
	12H	28.5	29.0	29.0	29.5	30.1	26.4	27.0	26.9	27.5	28.0

12H	4H	27.5	28.3	28.0	28.8	29.2	25.6	26.4	26.1	26.8	27.3
	6H	28.1	28.8	28.7	29.2	29.8	26.2	26.8	26.7	27.3	27.8
	8H	28.4	28.9	28.9	29.4	30.0	26.4	27.0	26.9	27.5	28.0

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 459.046 Located At Horizontal Angle = 0, Vertical Angle = 25.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25.5) (Through Max. Cd.)