



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-840-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13012869.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 08-01-2024
 [MANUFAC] H E Williams Inc
 [LUMCAT] MX2D-4'00-L4/840-F-DIM-UNV
 [LUMINAIRE] Formed White aluminum housing,frosted plastic lens
 [LAMP] 144 White LEDs
 [BALLAST] One Philips Advance XI040C110V054BST1 Driver
 [OTHER] 24.6 C, 119.988 V, 0.225834 A, 26.9225 W, 0.993544 PF, 59.9999
 [MORE] Hz
 [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	1549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	13.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	8653	7920	7259
55	7634	6940	6285
65	6711	6037	5466
75	5533	5069	4706
85	3992	4293	4390

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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	684.663	684.663	684.663	684.663	684.663
0.5	683.623	688.825	683.102	683.102	682.062
1.0	683.102	688.825	683.102	683.102	682.062
1.5	683.102	688.305	683.102	683.102	682.062
2.0	683.102	688.305	682.582	683.102	682.062
2.5	682.582	687.785	682.582	683.102	682.062
3.0	682.062	687.785	682.062	683.102	681.542
3.5	681.542	687.265	681.542	682.582	681.021
4.0	681.021	686.744	681.021	682.062	680.501
4.5	680.501	686.224	679.981	681.542	679.981
5.0	679.461	685.183	679.461	681.021	678.940
5.5	678.940	684.663	678.420	679.981	678.420
6.0	677.900	683.623	677.900	678.940	677.380
6.5	676.859	682.582	676.859	677.380	675.819
7.0	675.819	681.542	675.819	675.819	674.258
7.5	674.778	680.501	674.778	674.258	672.697
8.0	673.738	679.461	673.217	672.177	671.136
8.5	672.177	677.900	672.177	670.616	669.055
9.0	670.616	676.859	670.616	668.535	666.974
9.5	669.576	675.299	669.055	666.454	664.373
10.0	668.015	673.738	666.974	663.853	661.772
10.5	666.454	672.177	665.414	661.772	659.170
11.0	664.893	670.616	662.812	659.170	656.049
11.5	662.812	668.535	660.731	656.569	653.448
12.0	661.251	666.974	658.650	653.968	650.326
12.5	659.170	664.893	656.049	650.846	647.204
13.0	657.089	662.812	653.448	648.245	644.083
13.5	655.008	660.731	650.846	645.123	641.482
14.0	652.927	658.650	648.245	642.002	637.840
14.5	650.326	656.049	645.123	638.880	634.198
15.0	647.725	653.448	642.002	635.238	631.076
15.5	645.644	651.367	638.880	631.597	627.435
16.0	643.042	648.245	635.759	628.475	623.793
16.5	640.441	645.644	632.637	624.833	620.151
17.0	637.840	642.522	628.995	620.671	615.989
17.5	635.238	639.921	625.353	617.029	612.347
18.0	632.117	636.799	621.712	612.867	608.185
18.5	629.516	633.678	618.070	609.225	604.023
19.0	626.394	630.556	614.428	605.063	599.861
19.5	623.272	626.914	610.786	600.901	595.699
20.0	620.151	623.793	606.624	596.739	591.537
20.5	617.029	620.151	602.462	592.057	586.854
21.0	613.387	616.509	598.820	587.374	582.172
21.5	610.266	612.867	594.658	582.692	577.490
22.0	606.624	609.225	590.496	578.010	572.287
22.5	603.503	605.584	586.334	573.327	567.084
23.0	599.861	601.942	581.652	568.125	562.402
23.5	596.219	597.780	577.490	563.442	556.679
24.0	592.057	594.138	573.327	558.240	551.476
24.5	588.415	589.976	568.645	553.037	546.274
25.0	584.253	585.814	563.963	548.355	541.071
25.5	580.611	581.131	559.801	543.152	535.869
26.0	575.929	576.969	554.598	537.429	530.666
26.5	571.767	572.287	549.916	532.227	525.463

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CANDELA TABULATION - (Cont.)

27.0	567.084	568.125	545.233	527.544	520.209
27.5	562.922	563.442	540.031	522.342	514.850
28.0	558.240	558.760	535.348	516.671	509.700
28.5	553.558	554.078	530.146	511.520	504.445
29.0	548.875	548.875	524.943	506.318	499.294
29.5	543.152	544.193	519.636	500.959	493.728
30.0	538.470	538.990	514.330	495.861	488.265
30.5	533.788	533.788	508.815	490.294	482.802
31.0	528.585	528.585	503.248	484.935	477.391
31.5	523.382	523.382	497.681	479.264	471.564
32.0	518.336	518.024	492.115	473.541	465.946
32.5	513.185	512.301	486.444	467.714	460.431
33.0	508.035	506.786	480.773	461.888	454.500
33.5	502.780	501.115	475.050	455.957	448.881
34.0	497.473	495.392	469.119	450.026	442.742
34.5	492.115	489.617	463.448	443.991	436.811
35.0	486.912	483.947	457.569	437.851	430.724
35.5	481.449	478.276	451.638	431.921	424.377
36.0	475.883	472.345	445.864	425.677	417.978
36.5	470.732	466.570	439.881	419.434	411.266
37.0	465.061	460.795	433.741	413.191	404.607
37.5	459.442	455.020	427.706	406.896	398.000
38.0	453.980	449.141	421.567	400.601	391.392
38.5	448.309	443.418	415.532	394.098	385.877
39.0	442.534	437.643	409.601	388.115	380.467
39.5	436.759	431.921	403.618	383.068	374.172
40.0	430.880	426.250	397.583	377.345	368.032
40.5	425.105	420.527	391.756	371.206	362.102
41.0	419.434	414.908	387.178	365.275	356.379
41.5	413.607	409.237	381.663	359.552	350.812
42.0	407.884	403.462	376.513	353.933	345.453
42.5	402.058	397.791	370.842	348.575	340.251
43.0	396.439	392.017	365.379	343.320	335.204
43.5	391.028	387.542	359.968	338.170	330.210
44.0	386.294	382.392	354.662	333.123	325.319
44.5	381.767	376.929	349.407	328.128	320.377
45.0	376.097	371.570	344.205	323.238	315.486
45.5	370.582	365.951	339.054	318.348	310.648
46.0	365.067	360.385	333.955	313.509	305.757
46.5	359.604	354.870	328.909	308.619	300.971
47.0	354.090	349.459	323.862	303.780	296.132
47.5	348.627	344.048	318.764	298.838	291.294
48.0	343.268	338.638	313.665	293.947	286.508
48.5	337.961	333.279	308.515	289.109	281.721
49.0	332.655	327.920	303.364	284.271	276.987
49.5	327.348	322.666	298.161	279.484	272.305
50.0	322.041	317.359	293.063	274.698	267.622
50.5	316.735	312.052	287.964	269.963	262.992
51.0	311.428	306.798	282.918	265.281	258.362
51.5	306.017	301.543	277.923	260.547	253.731
52.0	300.711	296.184	272.981	255.864	249.101
52.5	295.352	290.982	268.194	251.182	244.523
53.0	290.097	285.779	263.408	246.552	239.892
53.5	284.843	280.629	258.726	241.921	235.262
54.0	279.588	275.530	253.991	237.291	230.684
54.5	274.334	270.484	249.309	232.661	226.105

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CANDELA TABULATION - (Cont.)

55.0	269.131	265.437	244.679	228.082	221.579
55.5	264.032	260.443	240.048	223.556	217.105
56.0	258.986	255.396	235.418	219.134	212.683
56.5	253.991	250.402	230.788	214.712	208.416
57.0	249.101	245.459	226.105	210.341	204.202
57.5	244.210	240.621	221.475	206.023	200.040
58.0	239.424	235.834	216.845	201.705	195.930
58.5	234.638	231.048	212.266	197.439	191.820
59.0	229.851	226.313	207.792	193.225	187.762
59.5	225.117	221.579	203.266	189.115	183.756
60.0	220.487	216.845	198.792	185.057	179.802
60.5	215.804	212.162	194.421	180.999	175.796
61.0	211.174	207.532	190.103	176.993	171.894
61.5	206.492	203.006	185.785	172.987	168.044
62.0	201.861	198.479	181.519	169.085	164.298
62.5	197.231	194.005	177.305	165.235	160.500
63.0	192.653	189.479	173.143	161.385	156.755
63.5	188.074	184.953	169.033	157.535	153.061
64.0	183.496	180.426	164.923	153.789	149.367
64.5	178.918	175.900	160.865	149.991	145.673
65.0	174.339	171.426	156.807	146.245	141.979
65.5	169.813	167.004	152.801	142.447	138.337
66.0	165.287	162.582	148.795	138.702	134.904
66.5	160.761	158.211	144.789	134.956	131.262
67.0	156.338	153.737	140.783	131.210	127.672
67.5	151.864	149.315	136.777	127.516	124.030
68.0	147.390	144.893	132.823	123.822	120.492
68.5	142.968	140.522	128.817	120.180	116.955
69.0	138.545	136.204	124.863	116.590	113.469
69.5	134.071	131.886	120.909	113.001	109.983
70.0	129.753	127.568	117.059	109.463	106.601
70.5	125.435	123.302	113.209	105.977	103.220
71.0	121.117	118.984	109.411	102.491	99.890
71.5	116.903	114.822	105.613	99.110	96.612
72.0	112.688	110.659	101.867	95.728	93.387
72.5	108.526	106.601	98.225	92.398	90.213
73.0	104.364	102.543	94.635	89.121	87.040
73.5	100.202	98.537	91.046	85.843	83.918
74.0	96.092	94.531	87.508	82.617	80.849
74.5	92.034	90.577	84.074	79.496	77.831
75.0	88.028	86.727	80.640	76.374	74.866
75.5	84.074	82.878	77.259	73.305	71.952
76.0	80.120	79.184	73.877	70.235	69.039
76.5	76.270	75.438	70.599	67.218	66.177
77.0	72.420	71.796	67.322	64.304	63.368
77.5	68.674	68.154	64.200	61.391	60.558
78.0	64.981	64.616	61.079	58.581	57.801
78.5	61.339	61.131	58.009	55.772	55.096
79.0	57.801	57.697	55.044	53.067	52.442
79.5	54.263	54.419	52.078	50.361	49.841
80.0	50.882	51.194	49.113	47.656	47.240
80.5	47.552	48.020	46.303	45.055	44.690
81.0	44.326	44.899	43.546	42.453	42.193
81.5	41.153	41.881	40.736	39.904	39.696
82.0	38.083	38.863	38.083	37.407	37.303
82.5	35.066	35.950	35.378	34.962	34.857

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CANDELA TABULATION - (Cont.)

83.0	32.204	33.089	32.776	32.568	32.516
83.5	29.343	30.331	30.227	30.175	30.175
84.0	26.637	27.678	27.730	27.834	27.938
84.5	23.984	25.077	25.337	25.597	25.701
85.0	21.383	22.527	22.996	23.360	23.516
85.5	18.937	20.082	20.706	21.175	21.435
86.0	16.544	17.689	18.469	19.042	19.302
86.5	14.255	15.452	16.284	16.961	17.325
87.0	12.018	13.215	14.151	14.931	15.348
87.5	9.833	11.082	12.122	12.954	13.371
88.0	7.700	9.001	10.093	10.978	11.498
88.5	5.619	6.919	8.064	9.105	9.677
89.0	3.486	4.786	5.983	6.919	7.492
89.5	1.405	2.601	3.382	3.798	4.162
90.0	0.312	1.197	1.821	2.341	2.549
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

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

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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	245.39	N.A.	15.80
0-30	505.14	N.A.	32.60
0-40	791.90	N.A.	51.10
0-60	1279.32	N.A.	82.60
0-80	1522.6	N.A.	98.30
0-90	1548.48	N.A.	100.00
10-90	1483.89	N.A.	95.80
20-40	546.51	N.A.	35.30
20-50	813.68	N.A.	52.50
40-70	644.16	N.A.	41.60
60-80	243.29	N.A.	15.70
70-80	86.54	N.A.	5.60
80-90	25.88	N.A.	1.70
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1548.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.59
10-20	180.79
20-30	259.75
30-40	286.75
40-50	267.17
50-60	220.25
60-70	156.74
70-80	86.54
80-90	25.88
90-100	0.05
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-L4-840-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2D-4-00-L4-840-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	18.9	20.5	19.3	20.8	21.1	17.8	19.4	18.2	19.7	20.0
	3H	20.6	22.0	21.0	22.3	22.7	19.4	20.8	19.8	21.2	21.5
	4H	21.2	22.5	21.6	22.9	23.2	20.0	21.3	20.4	21.7	22.1
	6H	21.6	22.8	22.0	23.2	23.6	20.5	21.7	20.9	22.1	22.5
	8H	21.7	22.9	22.1	23.3	23.7	20.7	21.8	21.1	22.2	22.6
	12H	21.8	22.9	22.2	23.3	23.7	20.8	21.9	21.2	22.3	22.7

UGR Viewed Endwise

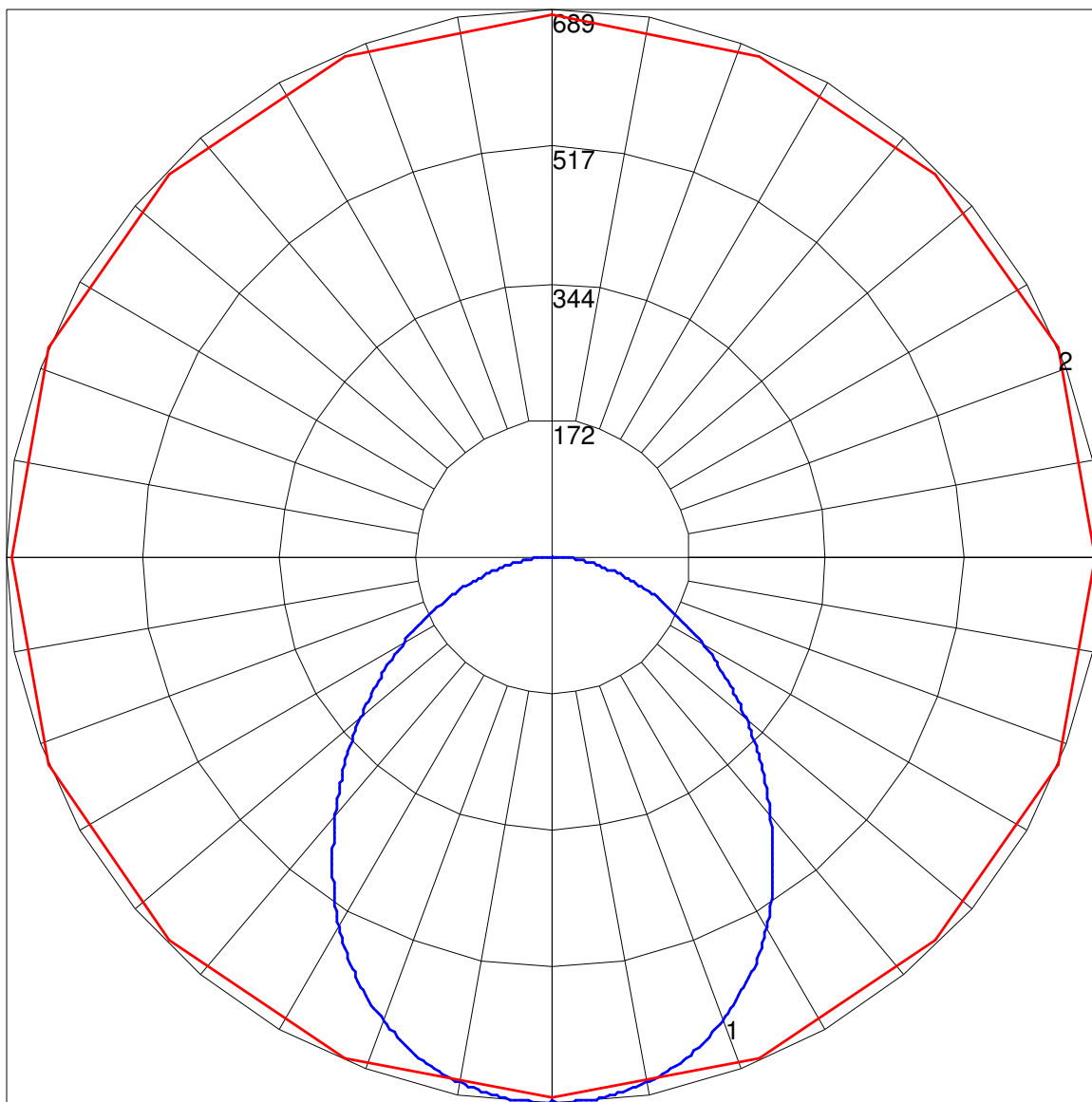
4H	2H	19.4	20.7	19.8	21.1	21.4	18.5	19.8	18.9	20.2	20.5
	3H	21.3	22.4	21.7	22.8	23.2	20.3	21.4	20.7	21.8	22.2
	4H	22.0	23.0	22.4	23.4	23.8	21.0	22.0	21.4	22.4	22.9
	6H	22.5	23.4	23.0	23.9	24.3	21.6	22.5	22.1	22.9	23.4
	8H	22.7	23.5	23.2	24.0	24.4	21.8	22.6	22.3	23.1	23.6
	12H	22.8	23.6	23.3	24.0	24.5	22.0	22.7	22.5	23.2	23.7

8H	4H	22.2	23.0	22.7	23.5	23.9	21.3	22.2	21.8	22.6	23.1
	6H	22.9	23.6	23.4	24.0	24.5	22.1	22.7	22.6	23.2	23.7
	8H	23.1	23.7	23.6	24.2	24.7	22.4	23.0	22.9	23.5	24.0
	12H	23.3	23.9	23.8	24.4	24.9	22.6	23.2	23.1	23.7	24.2

12H	4H	22.2	23.0	22.7	23.4	23.9	21.4	22.1	21.9	22.6	23.1
	6H	22.9	23.5	23.4	24.0	24.5	22.1	22.8	22.7	23.2	23.8
	8H	23.2	23.8	23.7	24.2	24.8	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 688.825 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.)