



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2S-8-00-L4-835-D-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13052732.16

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 31 JULY 2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] MX2S-8-00-L4-835-D-DIM-UNV

[LUMINAIRE] Formed White aluminum housing, frosted lens enclosure

[LAMP] 144 White LEDs

[BALLAST] One Philips XI040C110V054BST1 Driver

[OTHER] 25 C, 120.136 V, 27.2 W, 0.993665 PF, 60.0001 Hz

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

[MORE] hod of absolute photometry.

[_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	3254
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	27.2
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6704	6015	5835
55	5811	5420	5398
65	4927	4923	5013
75	3934	4479	4681
85	2684	4127	4107

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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	1129.711	1129.711	1129.711	1129.711	1129.711
0.5	1123.224	1134.035	1127.549	1130.792	1129.711
1.0	1123.224	1134.035	1127.549	1130.792	1129.711
1.5	1123.224	1134.035	1127.549	1130.792	1129.711
2.0	1122.143	1132.954	1127.549	1130.792	1129.711
2.5	1122.143	1132.954	1126.468	1129.711	1129.711
3.0	1121.062	1131.873	1126.468	1129.711	1129.711
3.5	1119.981	1130.792	1125.387	1128.630	1127.549
4.0	1117.819	1129.711	1124.306	1127.549	1127.549
4.5	1117.819	1128.630	1123.224	1126.468	1126.468
5.0	1115.657	1127.549	1122.143	1125.387	1124.306
5.5	1114.576	1125.387	1119.981	1123.224	1122.143
6.0	1112.414	1124.306	1118.900	1122.143	1121.062
6.5	1110.252	1122.143	1116.738	1119.981	1118.900
7.0	1108.090	1119.981	1114.576	1117.819	1115.657
7.5	1105.927	1117.819	1112.414	1114.576	1113.495
8.0	1103.765	1115.657	1110.252	1112.414	1111.333
8.5	1100.522	1112.414	1107.009	1109.171	1108.090
9.0	1097.279	1110.252	1104.846	1105.927	1104.846
9.5	1095.117	1107.009	1101.603	1102.684	1100.522
10.0	1091.874	1104.846	1099.441	1098.360	1097.279
10.5	1088.630	1101.603	1095.117	1095.117	1094.036
11.0	1084.306	1098.360	1091.874	1090.793	1088.630
11.5	1082.144	1095.117	1088.630	1087.549	1084.306
12.0	1077.820	1091.874	1084.306	1083.225	1080.523
12.5	1073.820	1087.549	1080.090	1078.468	1075.333
13.0	1069.928	1084.306	1075.333	1073.712	1070.252
13.5	1065.496	1079.982	1071.117	1068.847	1065.820
14.0	1061.388	1075.982	1066.577	1063.766	1060.199
14.5	1057.063	1071.658	1061.712	1058.469	1054.793
15.0	1052.307	1067.225	1056.955	1052.847	1049.928
15.5	1047.442	1062.685	1051.658	1047.550	1044.091
16.0	1043.226	1057.928	1046.577	1041.929	1038.145
16.5	1037.496	1053.063	1041.172	1035.658	1031.983
17.0	1032.523	1048.091	1035.442	1029.929	1026.037
17.5	1027.767	1043.010	1029.713	1023.983	1019.659
18.0	1022.361	1037.604	1024.091	1017.605	1013.388
18.5	1017.172	1032.199	1017.929	1011.443	1007.335
19.0	1011.659	1026.145	1011.875	1004.956	1000.524
19.5	1006.037	1020.415	1005.821	998.362	994.037
20.0	1000.091	1014.578	999.443	991.659	987.119
20.5	993.929	1008.632	992.956	985.065	980.848
21.0	987.984	1002.470	986.362	978.146	973.389
21.5	981.497	996.200	980.308	971.227	966.470
22.0	975.227	989.713	973.497	964.416	959.876
22.5	968.632	983.443	966.903	957.498	952.633
23.0	961.822	976.849	959.984	950.254	945.606
23.5	955.011	970.038	953.065	943.336	938.687
24.0	948.308	963.335	946.254	936.201	931.444
24.5	941.173	956.633	939.336	929.390	923.985
25.0	934.038	949.173	932.093	922.255	916.958
25.5	926.363	942.471	924.958	915.012	909.823
26.0	918.904	935.011	917.931	907.985	902.471
26.5	911.336	927.552	910.471	900.526	896.093

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CANDELA TABULATION - (Cont.)

27.0	903.985	920.525	903.228	893.390	888.742
27.5	896.526	912.417	895.769	885.931	881.391
28.0	888.742	904.850	888.418	878.688	874.148
28.5	880.742	897.282	880.850	871.661	867.445
29.0	872.958	889.282	872.742	864.310	860.310
29.5	865.067	881.283	865.283	856.634	853.175
30.0	856.634	873.607	857.391	849.283	845.932
30.5	848.526	864.959	849.391	841.932	838.905
31.0	840.418	857.175	841.499	834.473	831.446
31.5	831.986	848.851	833.608	826.473	824.419
32.0	822.905	840.202	825.824	819.230	817.500
32.5	814.797	831.986	818.040	813.392	812.203
33.0	805.716	823.446	810.581	806.149	804.851
33.5	799.554	815.662	803.554	798.581	797.500
34.0	792.960	807.122	795.230	791.122	790.257
34.5	784.095	800.311	788.419	784.311	785.068
35.0	775.122	792.203	780.311	777.933	777.717
35.5	766.149	783.446	773.392	770.474	770.366
36.0	757.068	775.338	765.285	762.906	763.122
36.5	748.096	767.014	757.285	755.555	755.771
37.0	739.015	758.150	749.285	748.096	748.420
37.5	729.934	749.393	741.285	740.528	741.069
38.0	720.745	740.528	733.177	733.177	733.717
38.5	711.556	731.772	725.177	725.826	726.474
39.0	702.259	722.907	717.177	718.366	719.339
39.5	692.961	714.150	709.177	711.015	712.204
40.0	683.772	705.394	701.177	703.772	705.286
40.5	674.583	696.637	693.178	696.637	698.583
41.0	665.286	687.880	685.286	689.502	691.772
41.5	655.989	679.124	677.502	682.475	685.178
42.0	646.800	670.367	669.610	675.556	678.691
42.5	637.503	661.611	661.827	668.746	672.313
43.0	628.422	652.962	654.259	662.151	666.043
43.5	619.233	644.314	646.692	655.557	659.989
44.0	610.152	635.665	639.124	648.962	653.719
44.5	601.071	627.017	631.665	642.584	647.557
45.0	591.990	618.368	624.314	636.097	641.503
45.5	582.909	609.828	616.963	629.827	635.557
46.0	573.828	601.287	609.828	623.557	629.503
46.5	564.964	592.963	602.693	617.287	623.449
47.0	555.991	584.531	595.558	611.017	617.503
47.5	547.126	576.098	588.423	604.747	611.449
48.0	538.153	567.774	581.396	598.476	605.503
48.5	529.288	559.450	574.369	592.314	599.449
49.0	520.424	551.342	567.342	586.152	593.612
49.5	511.667	543.126	560.315	580.098	587.666
50.0	502.911	535.126	553.396	574.044	581.828
50.5	494.262	527.018	546.585	567.991	575.990
51.0	485.614	518.910	539.775	561.937	570.045
51.5	476.857	510.910	532.964	555.883	564.099
52.0	468.100	502.911	526.261	549.829	558.261
52.5	459.452	494.911	519.451	543.883	552.315
53.0	450.911	487.127	512.856	537.937	546.585
53.5	442.479	479.343	506.262	531.883	540.640
54.0	433.939	471.560	499.667	525.937	534.586
54.5	425.615	463.776	492.965	519.883	528.640

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CANDELA TABULATION - (Cont.)

55.0	417.182	455.992	486.370	513.829	522.802
55.5	408.858	448.317	479.668	507.775	516.856
56.0	400.642	440.641	473.181	501.829	510.910
56.5	392.534	433.074	466.587	495.776	504.965
57.0	384.318	425.615	460.100	489.613	499.127
57.5	376.210	417.939	453.506	483.559	493.073
58.0	368.102	410.480	446.911	477.397	486.911
58.5	360.210	403.020	440.425	471.343	480.965
59.0	352.210	395.561	434.047	465.290	475.019
59.5	344.427	388.318	427.669	459.236	469.073
60.0	336.535	380.967	421.290	453.290	463.127
60.5	328.751	373.723	414.912	447.344	457.290
61.0	320.968	366.480	408.534	441.290	451.344
61.5	313.400	359.237	402.264	435.452	445.506
62.0	305.833	352.210	395.993	429.506	439.776
62.5	298.373	345.075	389.831	423.777	433.939
63.0	290.806	338.048	383.669	417.939	428.317
63.5	283.455	331.130	377.399	412.101	422.479
64.0	276.103	324.211	371.237	406.263	416.750
64.5	268.860	317.292	365.183	400.426	410.912
65.0	261.617	310.373	359.129	394.588	405.182
65.5	254.482	303.562	353.075	388.858	399.453
66.0	247.347	296.968	347.021	383.021	394.047
66.5	240.320	290.265	340.967	377.291	388.318
67.0	233.293	283.563	335.021	371.453	382.588
67.5	226.375	276.968	328.967	365.616	376.750
68.0	219.564	270.374	323.022	359.778	371.021
68.5	212.645	263.887	317.076	354.048	365.399
69.0	205.943	257.401	311.130	348.210	359.562
69.5	199.132	250.915	305.184	342.481	353.832
70.0	192.429	244.536	299.238	336.643	348.102
70.5	185.835	238.158	293.401	330.805	342.373
71.0	179.240	231.780	287.347	324.968	336.535
71.5	172.754	225.618	281.509	319.238	330.805
72.0	166.267	219.348	275.779	313.508	325.076
72.5	159.889	213.186	270.050	307.779	319.454
73.0	153.511	207.024	264.320	302.049	313.724
73.5	147.349	200.862	258.482	296.427	308.211
74.0	141.079	194.916	252.861	290.806	302.590
74.5	134.917	188.862	247.239	285.184	297.184
75.0	128.971	183.024	241.618	279.671	291.779
75.5	123.025	177.186	236.104	274.266	286.482
76.0	117.187	171.457	230.591	268.860	281.184
76.5	111.349	165.619	225.077	263.455	275.779
77.0	105.728	159.997	219.672	258.158	270.698
77.5	100.106	154.484	214.375	252.861	265.617
78.0	94.701	148.970	209.078	247.672	260.644
78.5	89.404	143.565	203.888	242.482	255.563
79.0	84.107	138.268	198.699	237.401	250.699
79.5	78.918	132.971	193.510	232.320	245.834
80.0	73.945	127.890	188.429	227.239	240.969
80.5	69.080	122.809	183.348	222.267	236.104
81.0	64.215	117.836	178.375	217.186	231.347
81.5	59.567	112.971	173.294	212.321	226.699
82.0	55.026	108.106	168.430	207.456	222.050
82.5	50.702	103.350	163.349	202.591	217.402

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CANDELA TABULATION - (Cont.)

83.0	46.378	98.701	158.268	197.618	212.753
83.5	42.270	94.052	153.295	192.537	207.456
84.0	38.270	89.404	148.322	185.619	196.537
84.5	34.486	84.755	143.133	174.267	184.537
85.0	30.810	80.215	137.403	162.268	172.321
85.5	27.135	75.458	129.619	149.187	157.187
86.0	23.675	70.593	118.809	132.755	138.052
86.5	20.324	65.404	106.593	113.944	118.809
87.0	17.189	59.675	91.674	95.242	99.890
87.5	14.054	52.540	75.350	76.864	81.080
88.0	11.027	43.567	58.269	58.918	62.810
88.5	8.108	32.756	41.513	42.270	45.405
89.0	4.865	22.054	28.972	33.513	37.945
89.5	1.730	14.378	22.702	30.378	35.567
90.0	0.000	10.919	21.189	28.000	32.972
90.5	0.000	13.081	24.216	29.837	32.432
91.0	0.108	18.054	32.108	38.594	41.621
91.5	0.324	25.081	43.243	50.486	53.513
92.0	0.324	31.891	54.918	62.269	65.404
92.5	0.324	36.756	65.188	73.945	77.188
93.0	0.324	39.999	72.972	85.188	88.647
93.5	0.324	41.945	78.918	94.052	99.674
94.0	0.324	43.243	82.918	100.106	107.025
94.5	0.324	44.107	84.972	105.620	112.539
95.0	0.324	44.756	85.620	109.944	117.836
95.5	0.324	45.297	85.945	111.458	122.052
96.0	0.324	45.729	86.053	111.566	123.133
96.5	0.324	46.053	86.053	111.133	122.484
97.0	0.324	46.269	85.836	110.809	121.728
97.5	0.324	46.486	85.620	110.485	120.971
98.0	0.324	46.594	85.296	110.052	120.214
98.5	0.324	46.594	84.972	109.512	119.457
99.0	0.324	46.594	84.539	108.971	118.701
99.5	0.324	46.594	84.107	108.431	118.052
100.0	0.324	46.486	83.674	107.890	117.079
100.5	0.432	46.378	83.242	107.241	116.322
101.0	0.432	46.269	82.809	106.701	115.566
101.5	0.432	46.053	82.269	106.052	114.809
102.0	0.432	45.837	81.836	105.512	114.052
102.5	0.432	45.621	81.404	104.971	113.295
103.0	0.432	45.405	80.972	104.323	112.539
103.5	0.432	45.188	80.431	103.782	111.890
104.0	0.432	44.864	79.999	103.242	111.241
104.5	0.432	44.648	79.458	102.701	110.485
105.0	0.432	44.324	79.026	102.052	109.836
105.5	0.432	43.999	78.593	101.512	109.187
106.0	0.432	43.783	78.053	100.863	108.431
106.5	0.432	43.459	77.620	100.323	107.782
107.0	0.432	43.134	77.080	99.674	107.133
107.5	0.541	42.810	76.647	99.133	106.377
108.0	0.541	42.486	76.107	98.485	105.728
108.5	0.432	42.161	75.566	97.836	105.079
109.0	0.432	41.837	75.134	97.296	104.323
109.5	0.432	41.513	74.593	96.647	103.566
110.0	0.432	41.189	74.053	95.998	102.917
110.5	0.432	40.864	73.512	95.458	102.160

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CANDELA TABULATION - (Cont.)

111.0	0.432	40.432	72.972	94.809	101.620
111.5	0.432	40.107	72.431	94.161	100.863
112.0	0.541	39.675	71.783	93.512	100.215
112.5	0.432	39.351	71.242	92.971	99.566
113.0	0.432	38.918	70.702	92.323	98.809
113.5	0.541	38.486	70.161	91.674	98.269
114.0	0.541	38.162	69.512	91.026	97.512
114.5	0.541	37.729	68.972	90.377	96.863
115.0	0.541	37.297	68.323	89.620	96.215
115.5	0.541	36.972	67.783	88.971	95.566
116.0	0.541	36.540	67.242	88.215	94.809
116.5	0.541	36.108	66.810	87.566	94.161
117.0	0.541	35.783	66.377	86.917	93.404
117.5	0.541	35.351	65.945	86.161	92.647
118.0	0.541	35.026	65.512	85.512	91.890
118.5	0.541	34.594	65.080	84.755	91.242
119.0	0.541	34.270	64.756	83.999	90.377
119.5	0.541	33.837	64.431	83.242	89.620
120.0	0.541	33.513	64.215	82.485	88.971
120.5	0.541	33.081	63.891	81.728	88.215
121.0	0.541	32.756	63.675	81.080	87.350
121.5	0.541	32.432	63.458	80.323	86.593
122.0	0.541	31.999	63.242	79.566	85.836
122.5	0.541	31.675	63.026	78.809	85.080
123.0	0.541	31.243	62.810	78.053	84.323
123.5	0.541	30.702	62.485	77.296	83.566
124.0	0.541	30.162	62.269	76.647	82.809
124.5	0.541	29.729	61.945	75.891	82.053
125.0	0.432	29.189	61.512	75.242	81.404
125.5	0.432	28.648	61.080	74.593	80.647
126.0	0.324	28.108	60.540	73.945	79.782
126.5	0.216	27.675	59.999	73.512	79.134
127.0	0.324	27.243	59.350	72.972	78.269
127.5	0.324	26.810	58.810	72.539	77.512
128.0	0.324	26.486	58.161	72.215	76.755
128.5	0.324	26.162	57.404	71.999	76.107
129.0	0.324	25.837	56.756	71.674	75.458
129.5	0.324	25.405	55.999	71.566	74.918
130.0	0.432	25.081	55.350	71.350	74.377
130.5	0.432	24.756	54.594	71.134	74.053
131.0	0.541	24.324	53.945	70.918	73.620
131.5	0.541	24.000	53.188	70.593	73.404
132.0	0.541	23.675	52.432	70.269	73.188
132.5	0.541	23.351	51.783	69.837	72.972
133.0	0.541	22.919	51.026	69.296	72.864
133.5	0.541	22.594	50.378	68.648	72.647
134.0	0.541	22.270	49.621	67.999	72.431
134.5	0.541	21.946	48.972	67.242	72.107
135.0	0.541	21.621	48.324	66.485	71.566
135.5	0.432	21.297	47.675	65.621	71.026
136.0	0.432	20.865	47.026	64.756	70.485
136.5	0.432	20.540	46.269	63.891	69.729
137.0	0.541	20.000	45.621	63.026	68.972
137.5	0.541	19.459	44.972	62.161	68.107
138.0	0.541	18.919	44.324	61.296	67.242
138.5	0.541	18.486	43.675	60.431	66.269

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	0.541	18.162	43.026	59.458	65.296
139.5	0.541	17.838	42.378	58.594	64.323
140.0	0.541	17.513	41.729	57.729	63.458
140.5	0.541	17.189	41.080	56.756	62.485
141.0	0.541	16.756	40.432	55.891	61.512
141.5	0.541	16.216	39.783	55.026	60.540
142.0	0.541	15.784	39.134	54.161	59.675
142.5	0.541	15.351	38.486	53.296	58.702
143.0	0.649	14.811	37.837	52.432	57.729
143.5	0.649	14.270	37.080	51.567	56.756
144.0	0.649	13.730	36.432	50.702	55.891
144.5	0.649	13.297	35.675	49.837	54.918
145.0	0.649	12.865	34.918	48.972	54.053
145.5	0.649	12.432	34.053	48.107	53.080
146.0	0.649	12.000	33.297	47.242	52.107
146.5	0.649	11.675	32.540	46.378	51.134
147.0	0.649	11.459	31.675	45.621	50.269
147.5	0.757	11.135	30.918	44.756	49.296
148.0	0.757	10.919	30.162	43.891	48.432
148.5	0.757	10.594	29.297	43.026	47.459
149.0	0.757	10.378	28.540	42.161	46.594
149.5	0.865	10.162	27.783	41.297	45.621
150.0	0.865	9.838	27.027	40.432	44.648
150.5	0.973	9.621	26.270	39.567	43.675
151.0	0.973	9.405	25.513	38.702	42.702
151.5	0.973	9.081	24.648	37.837	41.729
152.0	0.973	8.865	23.783	36.972	40.756
152.5	0.973	8.649	22.810	36.108	39.891
153.0	0.973	8.432	21.837	35.243	38.918
153.5	0.973	8.216	21.189	34.378	37.945
154.0	0.973	8.000	20.648	33.513	36.972
154.5	0.973	7.784	20.108	32.648	36.108
155.0	1.081	7.567	19.567	31.783	35.135
155.5	1.081	7.351	18.919	30.918	34.162
156.0	1.081	7.135	18.270	30.054	33.297
156.5	1.081	6.811	17.513	29.189	32.432
157.0	1.081	6.594	16.756	28.216	31.459
157.5	1.081	6.378	15.892	27.243	30.594
158.0	1.081	6.162	15.135	26.270	29.621
158.5	1.081	5.838	14.378	25.297	28.756
159.0	1.081	5.622	13.838	24.324	27.891
159.5	1.189	5.405	13.297	23.351	26.918
160.0	1.189	5.189	12.865	22.378	26.054
160.5	1.189	4.973	12.540	21.405	25.189
161.0	1.189	4.757	12.108	20.108	24.324
161.5	1.189	4.540	11.784	18.702	23.351
162.0	1.189	4.432	11.351	17.621	22.378
162.5	1.189	4.216	10.919	16.648	21.297
163.0	1.189	4.108	10.594	15.567	20.108
163.5	1.189	3.892	10.162	14.594	19.027
164.0	1.189	3.784	9.730	13.838	17.946
164.5	1.297	3.568	9.297	13.081	16.865
165.0	1.297	3.459	8.865	12.432	16.000
165.5	1.297	3.243	8.432	11.784	15.243
166.0	1.297	3.135	7.892	11.243	14.486
166.5	1.297	2.919	7.459	10.811	13.730

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	1.297	2.811	7.027	10.162	13.081
167.5	1.297	2.595	6.594	9.621	12.108
168.0	1.405	2.486	6.162	9.081	11.351
168.5	1.405	2.270	5.730	8.432	10.811
169.0	1.405	2.162	5.297	7.784	10.162
169.5	1.405	2.054	4.865	7.135	9.513
170.0	1.405	1.946	4.540	6.486	8.757
170.5	1.405	1.838	4.216	5.946	7.892
171.0	1.405	1.730	3.892	5.297	7.243
171.5	1.405	1.622	3.676	4.757	6.486
172.0	1.405	1.622	3.351	4.216	5.838
172.5	1.405	1.622	3.027	3.784	5.081
173.0	1.405	1.513	2.703	3.459	4.432
173.5	1.405	1.513	2.378	3.135	4.000
174.0	1.405	1.513	2.054	2.703	3.351
174.5	1.405	1.513	1.838	2.378	2.595
175.0	1.405	1.513	1.622	2.054	2.270
175.5	1.405	1.405	1.513	1.730	1.730
176.0	1.405	1.405	1.405	1.513	1.189
176.5	1.405	1.405	1.405	1.405	1.081
177.0	1.405	1.405	1.405	1.297	1.081
177.5	1.405	1.405	1.405	1.297	0.973
178.0	1.405	1.405	1.405	1.189	0.973
178.5	1.405	1.405	1.405	1.189	0.973
179.0	1.405	1.405	1.405	1.189	0.973
179.5	1.405	1.405	1.297	1.189	0.973
180.0	1.297	1.297	1.297	1.297	1.297

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-8-00-L4-835-D-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.87	N.A.	12.40
0-30	832.82	N.A.	25.60
0-40	1321.08	N.A.	40.60
0-60	2234.22	N.A.	68.70
0-80	2823.11	N.A.	86.80
0-90	2939.86	N.A.	90.30
10-90	2833.38	N.A.	87.10
20-40	917.21	N.A.	28.20
20-50	1399.31	N.A.	43.00
40-70	1259.57	N.A.	38.70
60-80	588.89	N.A.	18.10
70-80	242.46	N.A.	7.50
80-90	116.75	N.A.	3.60
90-110	142.61	N.A.	4.40
90-120	203.17	N.A.	6.20
90-130	249.63	N.A.	7.70
90-150	302.55	N.A.	9.30
90-180	314.44	N.A.	9.70
110-180	171.83	N.A.	5.30
0-180	3254.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.48
10-20	297.39
20-30	428.95
30-40	488.26
40-50	482.10
50-60	431.04
60-70	346.43
70-80	242.46
80-90	116.75
90-100	68.43
100-110	74.18
110-120	60.57
120-130	46.46
130-140	33.24
140-150	19.67
150-160	9.05
160-170	2.58
170-180	0.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-8-00-L4-835-D-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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	81	79	77	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	31	57	45	37	31	42	35	30	40	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	30	25	36	30	25	35	29	24	33	28	24	22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-8-00-L4-835-D-DIM-UNV_.IES

UGR TABLE - CORRECTED

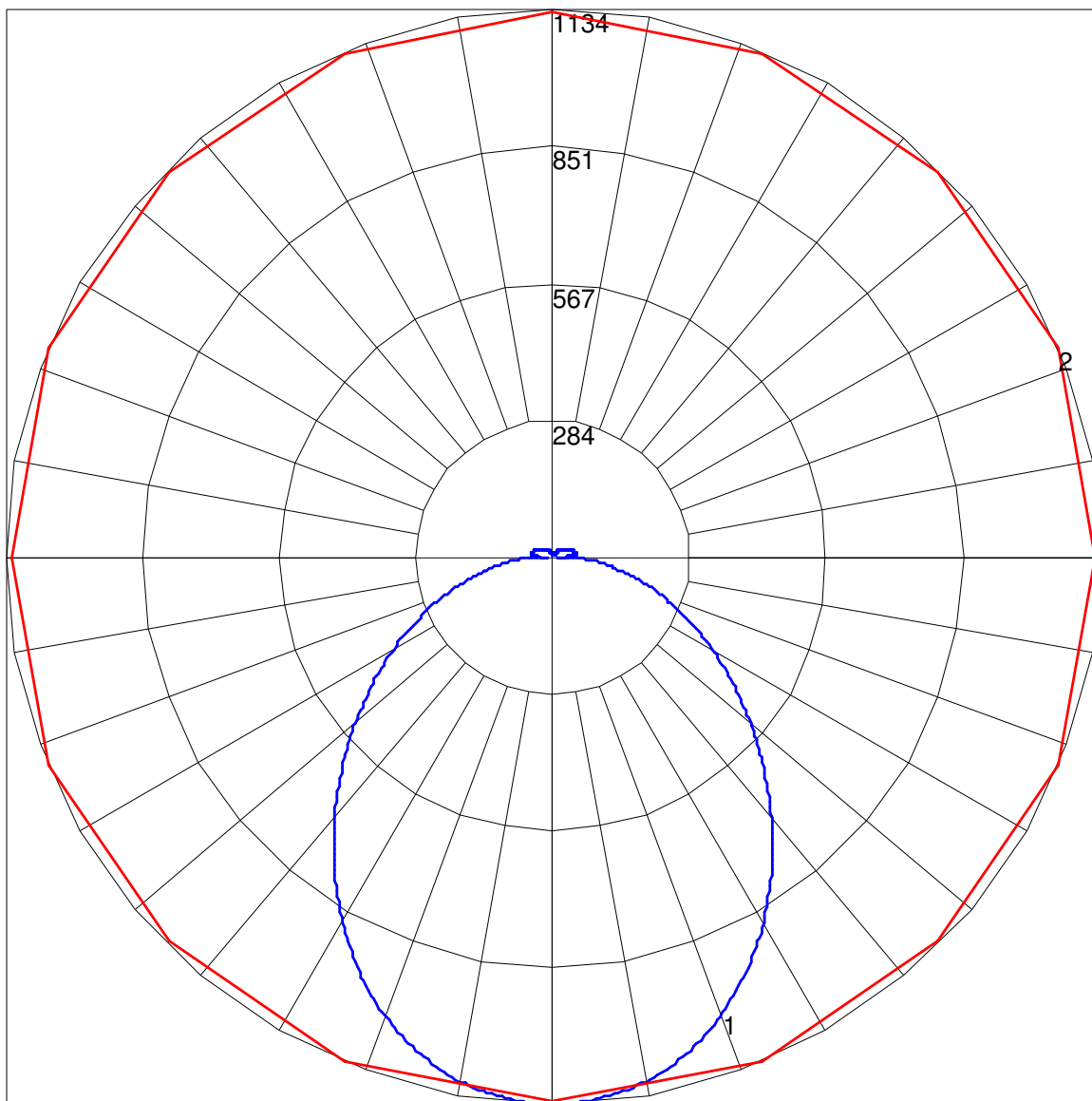
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.5	16.6	18.0	18.6	17.9	19.4	18.5	19.9	20.4
	3H	17.5	18.8	18.0	19.3	19.9	20.3	21.6	20.8	22.1	22.7
	4H	17.9	19.1	18.5	19.7	20.3	21.4	22.6	22.0	23.2	23.8
	6H	18.2	19.3	18.7	19.9	20.5	22.6	23.7	23.1	24.3	24.9
	8H	18.2	19.3	18.8	19.9	20.5	23.2	24.2	23.7	24.8	25.4
	12H	18.3	19.3	18.8	19.8	20.5	23.8	24.8	24.3	25.4	26.0
4H	2H	17.0	18.2	17.5	18.7	19.3	18.4	19.6	19.0	20.2	20.8
	3H	18.6	19.7	19.2	20.2	20.9	21.0	22.0	21.6	22.6	23.2
	4H	19.2	20.2	19.8	20.7	21.4	22.3	23.2	22.9	23.8	24.5
	6H	19.6	20.4	20.2	21.0	21.7	23.6	24.4	24.2	25.0	25.7
	8H	19.7	20.5	20.3	21.1	21.8	24.3	25.1	24.9	25.7	26.4
	12H	19.8	20.5	20.4	21.1	21.8	25.0	25.7	25.6	26.3	27.0
8H	4H	19.9	20.7	20.5	21.3	22.0	22.5	23.3	23.1	23.9	24.6
	6H	20.5	21.1	21.1	21.8	22.5	24.0	24.7	24.7	25.3	26.0
	8H	20.7	21.3	21.3	21.9	22.6	24.8	25.4	25.5	26.1	26.8
	12H	20.8	21.3	21.5	22.0	22.7	25.7	26.2	26.4	26.9	27.6
12H	4H	20.0	20.8	20.7	21.4	22.1	22.5	23.2	23.1	23.8	24.5
	6H	20.8	21.3	21.4	22.0	22.7	24.1	24.6	24.7	25.3	26.0
	8H	21.1	21.6	21.7	22.2	23.0	25.0	25.5	25.6	26.1	26.9

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 1134.035 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.)