



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-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] 30 JULY 2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] MX2S-4-00-L8-835-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, 0.224628 A, 26.815 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	3255
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	26.8
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)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13342	11996	11674
55	11540	10798	10799
65	9749	9793	10030
75	7722	8888	9365
85	5083	8143	8217

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1130.053	1130.053	1130.053	1130.053	1130.053
0.5	1123.564	1134.378	1127.890	1131.134	1130.053
1.0	1123.564	1134.378	1127.890	1131.134	1130.053
1.5	1123.564	1134.378	1127.890	1131.134	1130.053
2.0	1122.483	1133.297	1127.890	1131.134	1130.053
2.5	1122.483	1133.297	1126.808	1130.053	1130.053
3.0	1121.401	1132.215	1126.808	1130.053	1130.053
3.5	1120.320	1131.134	1125.727	1128.971	1127.890
4.0	1118.157	1130.053	1124.646	1127.890	1127.890
4.5	1118.157	1128.971	1123.564	1126.808	1126.808
5.0	1115.995	1127.890	1122.483	1125.727	1124.646
5.5	1114.913	1125.727	1120.320	1123.564	1122.483
6.0	1112.750	1124.646	1119.239	1122.483	1121.401
6.5	1110.588	1122.483	1117.076	1120.320	1119.239
7.0	1108.425	1120.320	1114.913	1118.157	1115.995
7.5	1106.262	1118.157	1112.750	1114.913	1113.832
8.0	1104.099	1115.995	1110.588	1112.750	1111.669
8.5	1100.855	1112.750	1107.343	1109.506	1108.425
9.0	1097.611	1110.588	1105.181	1106.262	1105.181
9.5	1095.448	1107.343	1101.936	1103.018	1100.855
10.0	1092.204	1105.181	1099.774	1098.692	1097.611
10.5	1088.960	1101.936	1095.448	1095.448	1094.367
11.0	1084.634	1098.692	1092.204	1091.123	1088.960
11.5	1082.471	1095.448	1088.960	1087.878	1084.634
12.0	1078.146	1092.204	1084.634	1083.553	1080.849
12.5	1074.145	1087.878	1080.417	1078.795	1075.659
13.0	1070.252	1084.634	1075.659	1074.037	1070.576
13.5	1065.818	1080.309	1071.441	1069.170	1066.142
14.0	1061.709	1076.307	1066.899	1064.088	1060.519
14.5	1057.383	1071.982	1062.033	1058.789	1055.112
15.0	1052.625	1067.548	1057.275	1053.166	1050.246
15.5	1047.759	1063.006	1051.976	1047.867	1044.406
16.0	1043.541	1058.248	1046.894	1042.244	1038.459
16.5	1037.810	1053.382	1041.487	1035.972	1032.295
17.0	1032.836	1048.408	1035.755	1030.240	1026.347
17.5	1028.077	1043.325	1030.024	1024.293	1019.967
18.0	1022.671	1037.918	1024.401	1017.912	1013.695
18.5	1017.480	1032.511	1018.237	1011.749	1007.639
19.0	1011.965	1026.455	1012.181	1005.260	1000.826
19.5	1006.342	1020.724	1006.125	998.664	994.338
20.0	1000.394	1014.885	999.745	991.959	987.417
20.5	994.230	1008.937	993.257	985.363	981.145
21.0	988.282	1002.773	986.660	978.442	973.684
21.5	981.794	996.501	980.604	971.521	966.763
22.0	975.522	990.013	973.792	964.708	960.166
22.5	968.925	983.741	967.195	957.787	952.921
23.0	962.113	977.144	960.274	950.542	945.892
23.5	955.300	970.331	953.353	943.621	938.971
24.0	948.595	963.627	946.541	936.484	931.726
24.5	941.458	956.922	939.620	929.671	924.264
25.0	934.321	949.460	932.374	922.534	917.235
25.5	926.643	942.756	925.237	915.289	910.098
26.0	919.182	935.294	918.208	908.259	902.744
26.5	911.612	927.833	910.747	900.798	896.364

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	904.258	920.804	903.501	893.661	889.011
27.5	896.797	912.693	896.040	886.199	881.657
28.0	889.011	905.123	888.686	878.954	874.412
28.5	881.008	897.554	881.117	871.925	867.707
29.0	873.222	889.551	873.006	864.571	860.570
29.5	865.328	881.549	865.545	856.893	853.433
30.0	856.893	873.871	857.650	849.540	846.188
30.5	848.783	865.220	849.648	842.187	839.159
31.0	840.673	857.434	841.754	834.725	831.697
31.5	832.238	849.107	833.860	826.723	824.668
32.0	823.154	840.456	826.074	819.477	817.747
32.5	815.044	832.238	818.288	813.638	812.448
33.0	805.960	823.695	810.826	806.393	805.095
33.5	799.796	815.909	803.797	798.823	797.741
34.0	793.200	807.366	795.471	791.361	790.496
34.5	784.332	800.553	788.658	784.548	785.305
35.0	775.357	792.443	780.547	778.168	777.952
35.5	766.381	783.683	773.626	770.707	770.599
36.0	757.297	775.573	765.516	763.137	763.353
36.5	748.322	767.246	757.514	755.783	756.000
37.0	739.238	758.379	749.511	748.322	748.646
37.5	730.155	749.620	741.509	740.752	741.293
38.0	720.963	740.752	733.399	733.399	733.939
38.5	711.771	731.993	725.396	726.045	726.694
39.0	702.471	723.126	717.394	718.584	719.557
39.5	693.171	714.366	709.392	711.230	712.420
40.0	683.979	705.607	701.390	703.985	705.499
40.5	674.787	696.848	693.387	696.848	698.794
41.0	665.487	688.088	685.493	689.711	691.981
41.5	656.187	679.329	677.707	682.682	685.385
42.0	646.996	670.570	669.813	675.761	678.897
42.5	637.696	661.811	662.027	668.948	672.516
43.0	628.612	653.160	654.457	662.351	666.244
43.5	619.420	644.508	646.888	655.755	660.189
44.0	610.337	635.857	639.318	649.158	653.917
44.5	601.253	627.206	631.856	642.778	647.753
45.0	592.169	618.555	624.503	636.290	641.697
45.5	583.086	610.012	617.149	630.018	635.749
46.0	574.002	601.469	610.012	623.746	629.693
46.5	565.134	593.142	602.875	617.474	623.638
47.0	556.159	584.708	595.738	611.202	617.690
47.5	547.291	576.273	588.601	604.930	611.634
48.0	538.316	567.946	581.572	598.658	605.687
48.5	529.449	559.619	574.543	592.494	599.631
49.0	520.581	551.509	567.513	586.330	593.791
49.5	511.822	543.290	560.484	580.274	587.844
50.0	503.063	535.288	553.564	574.218	582.004
50.5	494.412	527.178	546.751	568.162	576.165
51.0	485.760	519.067	539.938	562.107	570.217
51.5	477.001	511.065	533.125	556.051	564.269
52.0	468.242	503.063	526.421	549.995	558.430
52.5	459.591	495.060	519.608	544.047	552.482
53.0	451.048	487.274	513.011	538.100	546.751
53.5	442.613	479.488	506.415	532.044	540.803
54.0	434.070	471.702	499.818	526.096	534.747
54.5	425.743	463.916	493.114	520.040	528.800

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	417.308	456.130	486.517	513.985	522.960
55.5	408.982	448.452	479.813	507.929	517.013
56.0	400.763	440.775	473.324	501.981	511.065
56.5	392.653	433.205	466.728	495.925	505.117
57.0	384.434	425.743	460.240	489.762	499.278
57.5	376.324	418.065	453.643	483.706	493.222
58.0	368.213	410.604	447.047	477.542	487.058
58.5	360.319	403.142	440.558	471.486	481.110
59.0	352.317	395.681	434.178	465.430	475.163
59.5	344.531	388.435	427.798	459.374	469.215
60.0	336.637	381.082	421.418	453.427	463.267
60.5	328.851	373.837	415.037	447.479	457.428
61.0	321.065	366.591	408.657	441.423	451.480
61.5	313.495	359.346	402.385	435.584	445.641
62.0	305.925	352.317	396.113	429.636	439.909
62.5	298.464	345.180	389.949	423.905	434.070
63.0	290.894	338.151	383.785	418.065	428.447
63.5	283.540	331.230	377.513	412.226	422.607
64.0	276.187	324.309	371.349	406.386	416.876
64.5	268.942	317.388	365.294	400.547	411.036
65.0	261.696	310.467	359.238	394.707	405.305
65.5	254.559	303.654	353.182	388.976	399.574
66.0	247.422	297.058	347.126	383.136	394.167
66.5	240.393	290.353	341.070	377.405	388.435
67.0	233.364	283.649	335.123	371.566	382.704
67.5	226.443	277.052	329.067	365.726	376.864
68.0	219.630	270.456	323.119	359.887	371.133
68.5	212.709	263.967	317.172	354.155	365.510
69.0	206.005	257.479	311.224	348.316	359.670
69.5	199.192	250.991	305.276	342.584	353.939
70.0	192.487	244.610	299.329	336.745	348.208
70.5	185.891	238.230	293.489	330.905	342.476
71.0	179.294	231.850	287.433	325.066	336.637
71.5	172.806	225.686	281.594	319.334	330.905
72.0	166.318	219.414	275.863	313.603	325.174
72.5	159.938	213.250	270.131	307.872	319.551
73.0	153.557	207.086	264.400	302.140	313.819
73.5	147.393	200.922	258.560	296.517	308.304
74.0	141.121	194.975	252.937	290.894	302.681
74.5	134.957	188.919	247.314	285.271	297.274
75.0	129.010	183.079	241.691	279.756	291.867
75.5	123.062	177.240	236.176	274.349	286.568
76.0	117.223	171.508	230.660	268.942	281.270
76.5	111.383	165.669	225.145	263.535	275.863
77.0	105.760	160.046	219.738	258.236	270.780
77.5	100.137	154.531	214.440	252.937	265.698
78.0	94.730	149.016	209.141	247.746	260.723
78.5	89.431	143.609	203.950	242.556	255.641
79.0	84.132	138.310	198.759	237.473	250.774
79.5	78.941	133.011	193.569	232.391	245.908
80.0	73.967	127.928	188.486	227.308	241.042
80.5	69.101	122.846	183.404	222.334	236.176
81.0	64.235	117.872	178.429	217.251	231.417
81.5	59.585	113.005	173.347	212.385	226.767
82.0	55.043	108.139	168.481	207.519	222.118
82.5	50.717	103.381	163.398	202.652	217.468

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	46.392	98.731	158.315	197.678	212.818
83.5	42.282	94.081	153.341	192.596	207.519
84.0	38.281	89.431	148.367	185.675	196.597
84.5	34.496	84.781	143.176	174.320	184.593
85.0	30.820	80.239	137.445	162.317	172.374
85.5	27.143	75.481	129.659	149.232	157.234
86.0	23.682	70.615	118.845	132.795	138.094
86.5	20.330	65.424	106.625	113.979	118.845
87.0	17.194	59.693	91.702	95.270	99.920
87.5	14.058	52.556	75.373	76.887	81.104
88.0	11.030	43.580	58.287	58.936	62.829
88.5	8.110	32.766	41.525	42.282	45.418
89.0	4.866	22.060	28.981	33.523	37.957
89.5	1.730	14.382	22.709	30.387	35.578
90.0	0.000	10.922	21.195	28.008	32.982
90.5	0.000	13.085	24.223	29.846	32.442
91.0	0.108	18.059	32.117	38.606	41.634
91.5	0.324	25.088	43.256	50.501	53.529
92.0	0.324	31.901	54.935	62.288	65.424
92.5	0.324	36.767	65.208	73.967	77.211
93.0	0.324	40.011	72.994	85.214	88.674
93.5	0.324	41.958	78.941	94.081	99.704
94.0	0.324	43.256	82.943	100.137	107.058
94.5	0.324	44.121	84.997	105.652	112.573
95.0	0.324	44.770	85.646	109.977	117.872
95.5	0.324	45.310	85.971	111.491	122.089
96.0	0.324	45.743	86.079	111.599	123.170
96.5	0.324	46.067	86.079	111.167	122.521
97.0	0.324	46.283	85.862	110.842	121.765
97.5	0.324	46.500	85.646	110.518	121.008
98.0	0.324	46.608	85.322	110.086	120.251
98.5	0.324	46.608	84.997	109.545	119.494
99.0	0.324	46.608	84.565	109.004	118.737
99.5	0.324	46.608	84.132	108.463	118.088
100.0	0.324	46.500	83.700	107.923	117.115
100.5	0.433	46.392	83.267	107.274	116.358
101.0	0.433	46.283	82.834	106.733	115.601
101.5	0.433	46.067	82.294	106.084	114.844
102.0	0.433	45.851	81.861	105.544	114.087
102.5	0.433	45.635	81.429	105.003	113.330
103.0	0.433	45.418	80.996	104.354	112.573
103.5	0.433	45.202	80.455	103.813	111.924
104.0	0.433	44.878	80.023	103.273	111.275
104.5	0.433	44.661	79.482	102.732	110.518
105.0	0.433	44.337	79.050	102.083	109.869
105.5	0.433	44.013	78.617	101.543	109.220
106.0	0.433	43.796	78.076	100.894	108.463
106.5	0.433	43.472	77.644	100.353	107.815
107.0	0.433	43.147	77.103	99.704	107.166
107.5	0.541	42.823	76.671	99.163	106.409
108.0	0.541	42.499	76.130	98.515	105.760
108.5	0.433	42.174	75.589	97.866	105.111
109.0	0.433	41.850	75.157	97.325	104.354
109.5	0.433	41.525	74.616	96.676	103.597
110.0	0.433	41.201	74.075	96.027	102.948
110.5	0.433	40.877	73.535	95.487	102.191

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	0.433	40.444	72.994	94.838	101.651
111.5	0.433	40.120	72.453	94.189	100.894
112.0	0.541	39.687	71.804	93.540	100.245
112.5	0.433	39.363	71.264	93.000	99.596
113.0	0.433	38.930	70.723	92.351	98.839
113.5	0.541	38.497	70.182	91.702	98.298
114.0	0.541	38.173	69.533	91.053	97.541
114.5	0.541	37.741	68.993	90.404	96.893
115.0	0.541	37.308	68.344	89.647	96.244
115.5	0.541	36.984	67.803	88.998	95.595
116.0	0.541	36.551	67.262	88.241	94.838
116.5	0.541	36.118	66.830	87.593	94.189
117.0	0.541	35.794	66.397	86.944	93.432
117.5	0.541	35.361	65.965	86.187	92.675
118.0	0.541	35.037	65.532	85.538	91.918
118.5	0.541	34.604	65.100	84.781	91.269
119.0	0.541	34.280	64.775	84.024	90.404
119.5	0.541	33.848	64.451	83.267	89.647
120.0	0.541	33.523	64.235	82.510	88.998
120.5	0.541	33.091	63.910	81.753	88.241
121.0	0.541	32.766	63.694	81.104	87.376
121.5	0.541	32.442	63.478	80.347	86.619
122.0	0.541	32.009	63.261	79.590	85.862
122.5	0.541	31.685	63.045	78.833	85.105
123.0	0.541	31.252	62.829	78.076	84.348
123.5	0.541	30.711	62.504	77.319	83.591
124.0	0.541	30.171	62.288	76.671	82.834
124.5	0.541	29.738	61.964	75.914	82.078
125.0	0.433	29.198	61.531	75.265	81.429
125.5	0.433	28.657	61.099	74.616	80.672
126.0	0.324	28.116	60.558	73.967	79.807
126.5	0.216	27.684	60.017	73.535	79.158
127.0	0.324	27.251	59.368	72.994	78.293
127.5	0.324	26.818	58.828	72.561	77.536
128.0	0.324	26.494	58.179	72.237	76.779
128.5	0.324	26.170	57.422	72.021	76.130
129.0	0.324	25.845	56.773	71.696	75.481
129.5	0.324	25.413	56.016	71.588	74.940
130.0	0.433	25.088	55.367	71.372	74.400
130.5	0.433	24.764	54.610	71.155	74.075
131.0	0.541	24.331	53.961	70.939	73.643
131.5	0.541	24.007	53.204	70.615	73.426
132.0	0.541	23.682	52.447	70.290	73.210
132.5	0.541	23.358	51.799	69.858	72.994
133.0	0.541	22.925	51.042	69.317	72.886
133.5	0.541	22.601	50.393	68.668	72.669
134.0	0.541	22.277	49.636	68.019	72.453
134.5	0.541	21.952	48.987	67.262	72.129
135.0	0.541	21.628	48.338	66.505	71.588
135.5	0.433	21.303	47.689	65.640	71.047
136.0	0.433	20.871	47.040	64.775	70.507
136.5	0.433	20.546	46.283	63.910	69.750
137.0	0.541	20.006	45.635	63.045	68.993
137.5	0.541	19.465	44.986	62.180	68.128
138.0	0.541	18.924	44.337	61.315	67.262
138.5	0.541	18.492	43.688	60.450	66.289

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	0.541	18.167	43.039	59.476	65.316
139.5	0.541	17.843	42.390	58.611	64.343
140.0	0.541	17.519	41.742	57.746	63.478
140.5	0.541	17.194	41.093	56.773	62.504
141.0	0.541	16.762	40.444	55.908	61.531
141.5	0.541	16.221	39.795	55.043	60.558
142.0	0.541	15.788	39.146	54.178	59.693
142.5	0.541	15.356	38.497	53.313	58.719
143.0	0.649	14.815	37.849	52.447	57.746
143.5	0.649	14.274	37.092	51.582	56.773
144.0	0.649	13.734	36.443	50.717	55.908
144.5	0.649	13.301	35.686	49.852	54.935
145.0	0.649	12.869	34.929	48.987	54.070
145.5	0.649	12.436	34.064	48.122	53.096
146.0	0.649	12.003	33.307	47.257	52.123
146.5	0.649	11.679	32.550	46.392	51.150
147.0	0.649	11.463	31.685	45.635	50.285
147.5	0.757	11.138	30.928	44.770	49.311
148.0	0.757	10.922	30.171	43.904	48.446
148.5	0.757	10.598	29.306	43.039	47.473
149.0	0.757	10.381	28.549	42.174	46.608
149.5	0.865	10.165	27.792	41.309	45.635
150.0	0.865	9.841	27.035	40.444	44.661
150.5	0.973	9.624	26.278	39.579	43.688
151.0	0.973	9.408	25.521	38.714	42.715
151.5	0.973	9.084	24.656	37.849	41.742
152.0	0.973	8.867	23.791	36.984	40.768
152.5	0.973	8.651	22.817	36.118	39.903
153.0	0.973	8.435	21.844	35.253	38.930
153.5	0.973	8.219	21.195	34.388	37.957
154.0	0.973	8.002	20.655	33.523	36.984
154.5	0.973	7.786	20.114	32.658	36.118
155.0	1.081	7.570	19.573	31.793	35.145
155.5	1.081	7.353	18.924	30.928	34.172
156.0	1.081	7.137	18.275	30.063	33.307
156.5	1.081	6.813	17.519	29.198	32.442
157.0	1.081	6.596	16.762	28.224	31.468
157.5	1.081	6.380	15.896	27.251	30.603
158.0	1.081	6.164	15.139	26.278	29.630
158.5	1.081	5.840	14.382	25.305	28.765
159.0	1.081	5.623	13.842	24.331	27.900
159.5	1.190	5.407	13.301	23.358	26.927
160.0	1.190	5.191	12.869	22.385	26.061
160.5	1.190	4.974	12.544	21.412	25.196
161.0	1.190	4.758	12.112	20.114	24.331
161.5	1.190	4.542	11.787	18.708	23.358
162.0	1.190	4.434	11.355	17.627	22.385
162.5	1.190	4.217	10.922	16.653	21.303
163.0	1.190	4.109	10.598	15.572	20.114
163.5	1.190	3.893	10.165	14.599	19.032
164.0	1.190	3.785	9.733	13.842	17.951
164.5	1.298	3.569	9.300	13.085	16.870
165.0	1.298	3.460	8.867	12.436	16.005
165.5	1.298	3.244	8.435	11.787	15.248
166.0	1.298	3.136	7.894	11.246	14.491
166.5	1.298	2.920	7.462	10.814	13.734

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	1.298	2.812	7.029	10.165	13.085
167.5	1.298	2.595	6.596	9.624	12.112
168.0	1.406	2.487	6.164	9.084	11.355
168.5	1.406	2.271	5.731	8.435	10.814
169.0	1.406	2.163	5.299	7.786	10.165
169.5	1.406	2.055	4.866	7.137	9.516
170.0	1.406	1.947	4.542	6.488	8.759
170.5	1.406	1.838	4.217	5.948	7.894
171.0	1.406	1.730	3.893	5.299	7.245
171.5	1.406	1.622	3.677	4.758	6.488
172.0	1.406	1.622	3.352	4.217	5.840
172.5	1.406	1.622	3.028	3.785	5.083
173.0	1.406	1.514	2.703	3.460	4.434
173.5	1.406	1.514	2.379	3.136	4.001
174.0	1.406	1.514	2.055	2.703	3.352
174.5	1.406	1.514	1.838	2.379	2.595
175.0	1.406	1.514	1.622	2.055	2.271
175.5	1.406	1.406	1.514	1.730	1.730
176.0	1.406	1.406	1.406	1.514	1.190
176.5	1.406	1.406	1.406	1.406	1.081
177.0	1.406	1.406	1.406	1.298	1.081
177.5	1.406	1.406	1.406	1.298	0.973
178.0	1.406	1.406	1.406	1.190	0.973
178.5	1.406	1.406	1.406	1.190	0.973
179.0	1.406	1.406	1.406	1.190	0.973
179.5	1.406	1.406	1.298	1.190	0.973
180.0	1.298	1.298	1.298	1.298	1.298

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.99	N.A.	12.40
0-30	833.07	N.A.	25.60
0-40	1321.48	N.A.	40.60
0-60	2234.9	N.A.	68.70
0-80	2823.96	N.A.	86.80
0-90	2940.75	N.A.	90.30
10-90	2834.23	N.A.	87.10
20-40	917.49	N.A.	28.20
20-50	1399.73	N.A.	43.00
40-70	1259.95	N.A.	38.70
60-80	589.06	N.A.	18.10
70-80	242.53	N.A.	7.50
80-90	116.78	N.A.	3.60
90-110	142.65	N.A.	4.40
90-120	203.23	N.A.	6.20
90-130	249.71	N.A.	7.70
90-150	302.64	N.A.	9.30
90-180	314.54	N.A.	9.70
110-180	171.89	N.A.	5.30
0-180	3255.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.51
10-20	297.48
20-30	429.08
30-40	488.41
40-50	482.24
50-60	431.17
60-70	346.53
70-80	242.53
80-90	116.78
90-100	68.45
100-110	74.20
110-120	60.58
120-130	46.48
130-140	33.25
140-150	19.68
150-160	9.06
160-170	2.58
170-180	0.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-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

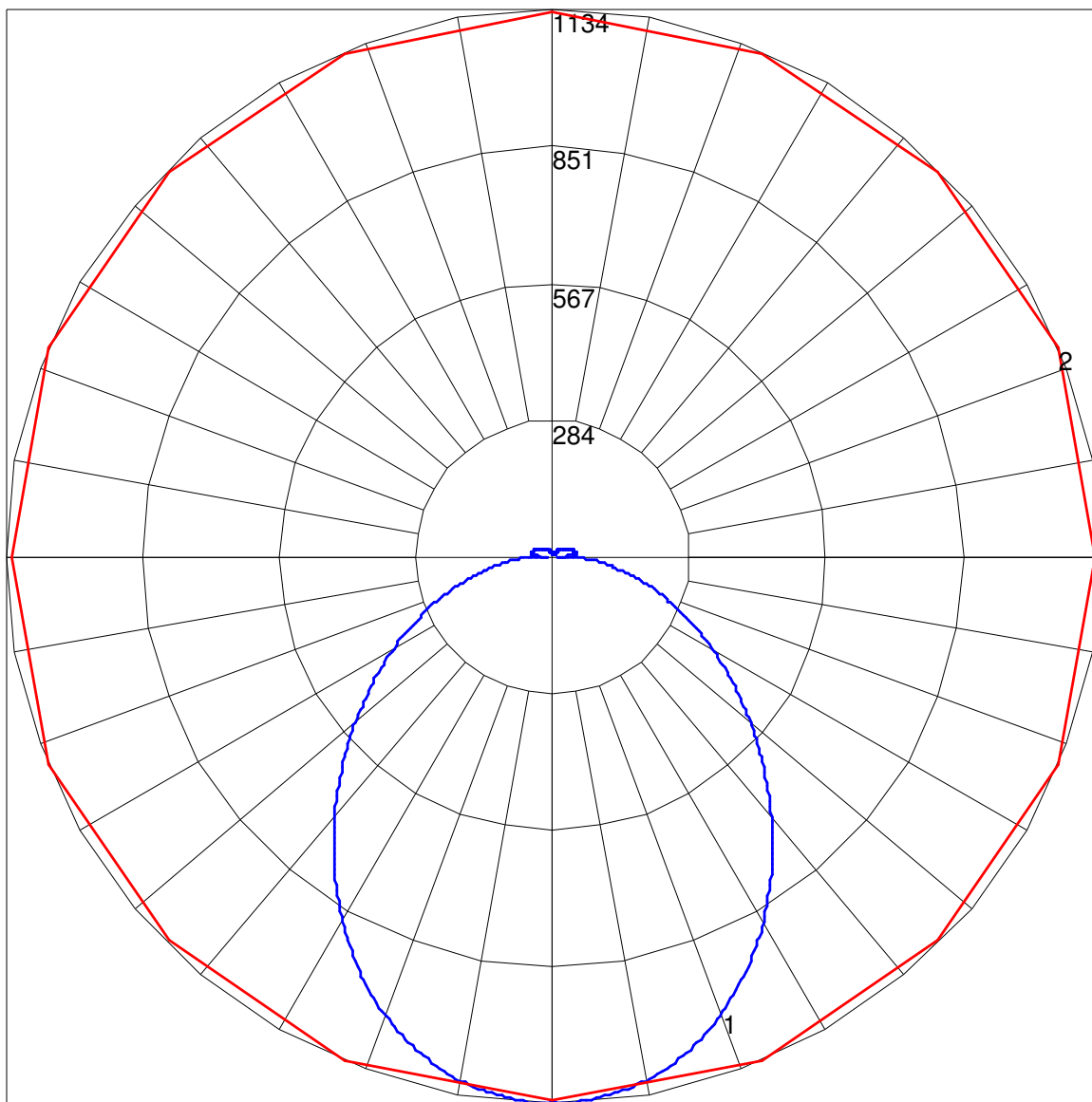
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX2S-4-00-L8-835-D-DIM-UNV_.IES

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	18.5	19.9	19.0	20.4	21.0	20.3	21.8	20.8	22.3	22.8
	3H	19.9	21.2	20.4	21.7	22.3	22.7	24.0	23.2	24.5	25.1
	4H	20.3	21.5	20.9	22.1	22.7	23.8	25.0	24.3	25.5	26.2
	6H	20.6	21.7	21.1	22.3	22.9	24.9	26.1	25.5	26.6	27.2
	8H	20.6	21.7	21.2	22.3	22.9	25.5	26.6	26.1	27.2	27.8
	12H	20.7	21.7	21.2	22.2	22.9	26.1	27.1	26.7	27.7	28.4
4H	2H	19.4	20.6	19.9	21.1	21.7	20.8	22.0	21.3	22.5	23.2
	3H	21.0	22.1	21.6	22.6	23.3	23.4	24.4	23.9	25.0	25.6
	4H	21.6	22.6	22.2	23.1	23.8	24.7	25.6	25.2	26.2	26.8
	6H	22.0	22.8	22.6	23.4	24.1	26.0	26.8	26.6	27.4	28.1
	8H	22.1	22.9	22.7	23.5	24.2	26.6	27.4	27.3	28.0	28.7
	12H	22.2	22.9	22.8	23.5	24.2	27.3	28.0	28.0	28.7	29.4
8H	4H	22.3	23.0	22.9	23.7	24.3	24.9	25.6	25.5	26.3	26.9
	6H	22.9	23.5	23.5	24.2	24.9	26.4	27.0	27.0	27.7	28.4
	8H	23.1	23.6	23.7	24.3	25.0	27.2	27.8	27.8	28.4	29.1
	12H	23.2	23.7	23.9	24.4	25.1	28.1	28.6	28.7	29.2	30.0
12H	4H	22.4	23.1	23.1	23.8	24.5	24.9	25.6	25.5	26.2	26.9
	6H	23.1	23.7	23.8	24.4	25.1	26.4	27.0	27.1	27.6	28.4
	8H	23.4	23.9	24.1	24.6	25.4	27.3	27.8	28.0	28.5	29.2

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1134.378 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.)