

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L8-830D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4UDC-4-00-L8-830U-L8-830D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[OTHER] This test was performed using the calibrated photodetector

[MORE] method of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	54.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8951	8727	8628
55	8228	8029	7944
65	7589	7406	7326
75	6436	6432	6429
85	5026	5228	5380

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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	1298.796	1298.796	1298.796	1298.796	1298.796
0.5	1318.409	1299.886	1293.348	1296.072	1291.714
1.0	1318.409	1299.341	1293.348	1296.072	1291.714
1.5	1317.864	1298.796	1292.803	1296.072	1291.169
2.0	1317.319	1298.251	1292.258	1295.527	1291.169
2.5	1316.774	1297.706	1291.169	1294.982	1290.624
3.0	1315.685	1296.617	1290.624	1294.438	1289.535
3.5	1314.595	1295.527	1289.535	1293.348	1288.445
4.0	1313.506	1294.438	1288.445	1292.258	1287.355
4.5	1312.416	1292.803	1287.355	1291.169	1285.721
5.0	1311.326	1291.714	1285.721	1289.535	1284.087
5.5	1309.692	1290.079	1284.087	1287.900	1282.452
6.0	1308.058	1287.900	1282.452	1286.266	1280.273
6.5	1305.878	1286.266	1280.273	1284.087	1278.639
7.0	1304.244	1284.087	1278.639	1281.907	1276.459
7.5	1302.610	1281.907	1276.459	1279.728	1274.825
8.0	1299.886	1279.728	1273.735	1277.549	1272.646
8.5	1297.706	1277.004	1271.011	1274.825	1269.922
9.0	1294.982	1274.825	1268.832	1272.101	1267.198
9.5	1292.258	1272.101	1265.563	1268.832	1264.474
10.0	1289.535	1269.377	1262.839	1266.108	1261.205
10.5	1286.266	1266.108	1259.571	1262.839	1258.481
11.0	1283.542	1262.839	1256.302	1259.571	1254.668
11.5	1279.728	1259.571	1253.033	1256.302	1251.399
12.0	1276.459	1256.302	1249.764	1252.488	1247.585
12.5	1273.191	1252.488	1245.951	1248.675	1243.772
13.0	1269.377	1249.220	1242.137	1244.861	1239.958
13.5	1265.563	1244.861	1238.324	1240.503	1236.144
14.0	1261.750	1241.048	1233.965	1236.689	1232.331
14.5	1257.936	1237.234	1229.607	1232.331	1227.972
15.0	1254.123	1232.876	1225.248	1227.972	1223.614
15.5	1249.220	1229.062	1220.890	1223.069	1218.711
16.0	1243.772	1224.704	1215.987	1218.711	1214.353
16.5	1238.324	1219.800	1211.084	1213.808	1209.449
17.0	1233.420	1214.897	1206.181	1208.905	1204.546
17.5	1227.972	1209.449	1200.733	1203.457	1199.098
18.0	1222.524	1204.001	1195.285	1198.009	1193.650
18.5	1217.077	1198.553	1189.837	1192.016	1188.202
19.0	1211.629	1193.105	1184.933	1186.568	1181.665
19.5	1205.636	1187.657	1179.486	1180.030	1175.127
20.0	1200.188	1181.665	1174.582	1174.038	1168.590
20.5	1194.195	1176.217	1169.134	1167.500	1162.052
21.0	1188.202	1170.224	1163.142	1160.962	1154.970
21.5	1181.665	1164.231	1156.604	1154.425	1147.887
22.0	1175.672	1157.694	1149.522	1147.342	1141.350
22.5	1169.134	1151.156	1142.984	1140.260	1134.267
23.0	1162.597	1144.619	1136.447	1132.633	1127.185
23.5	1156.059	1138.081	1129.364	1125.551	1120.647
24.0	1148.977	1131.543	1122.827	1118.468	1113.565
24.5	1141.895	1124.461	1115.744	1111.386	1106.483
25.0	1135.357	1117.379	1108.662	1104.304	1099.400
25.5	1128.275	1110.296	1101.035	1097.221	1091.773
26.0	1120.647	1102.669	1093.952	1090.139	1084.691
26.5	1113.565	1095.587	1086.325	1083.056	1077.608

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**CANDELA TABULATION - (Cont.)**

27.0	1105.938	1087.960	1078.698	1075.974	1069.981
27.5	1098.311	1080.332	1071.616	1068.892	1062.899
28.0	1090.684	1072.161	1063.444	1061.265	1055.272
28.5	1082.512	1063.989	1055.817	1054.182	1047.645
29.0	1074.340	1056.361	1048.189	1046.555	1040.017
29.5	1066.713	1048.189	1040.562	1038.383	1032.935
30.0	1058.541	1040.017	1032.935	1030.756	1025.308
30.5	1050.369	1031.846	1024.763	1023.129	1017.681
31.0	1041.652	1024.218	1016.591	1014.957	1010.054
31.5	1033.480	1016.046	1008.419	1006.785	1001.882
32.0	1024.763	1007.330	1000.247	998.068	993.710
32.5	1016.046	999.158	992.075	989.896	984.993
33.0	1007.330	990.986	983.903	981.724	976.276
33.5	999.158	982.269	975.187	973.007	968.104
34.0	989.896	973.552	967.015	964.291	959.388
34.5	981.179	964.835	957.753	955.574	950.126
35.0	972.463	956.664	949.036	946.857	940.864
35.5	963.201	947.402	940.320	938.140	931.603
36.0	953.940	938.685	931.603	928.879	922.886
36.5	945.223	929.968	922.886	920.162	914.169
37.0	935.961	920.707	913.625	910.901	904.908
37.5	926.700	911.445	904.908	901.639	896.191
38.0	916.893	902.184	895.646	892.377	886.930
38.5	907.632	892.922	886.385	883.661	877.668
39.0	898.915	883.661	877.123	874.399	868.951
39.5	889.109	874.399	868.406	865.138	859.145
40.0	879.847	864.593	859.145	855.876	850.428
40.5	870.041	855.331	849.883	846.615	841.167
41.0	860.779	845.525	840.622	836.808	831.360
41.5	850.973	836.263	830.815	827.547	821.554
42.0	841.711	826.457	821.554	818.285	812.292
42.5	832.450	817.196	812.292	808.479	803.031
43.0	822.643	807.934	803.031	799.217	793.224
43.5	813.382	798.128	793.224	789.956	783.963
44.0	803.576	788.321	783.418	780.149	774.701
44.5	793.769	778.515	773.612	770.343	764.895
45.0	783.963	769.253	764.350	760.537	755.633
45.5	774.701	759.447	754.544	751.275	746.372
46.0	764.895	749.641	744.738	741.469	737.110
46.5	755.089	739.834	735.476	732.207	727.849
47.0	745.282	730.028	725.670	722.401	718.042
47.5	734.931	720.222	715.863	712.594	708.781
48.0	725.125	710.415	706.057	703.333	698.975
48.5	715.318	700.609	696.795	693.527	689.168
49.0	704.967	690.803	686.989	683.720	679.907
49.5	695.161	680.996	677.183	674.459	670.645
50.0	684.810	671.190	667.376	664.652	660.839
50.5	674.459	661.384	657.570	654.846	651.577
51.0	664.108	651.577	647.764	645.040	641.771
51.5	654.301	641.771	637.957	635.778	631.965
52.0	644.495	631.965	628.151	625.972	622.703
52.5	634.144	622.158	618.345	616.710	612.897
53.0	624.337	612.352	608.538	606.904	603.090
53.5	613.986	602.545	598.732	597.098	593.284
54.0	604.180	592.739	589.470	587.836	583.478
54.5	594.374	583.478	579.664	578.030	573.671

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**CANDELA TABULATION - (Cont.)**

55.0	584.567	574.216	570.402	568.768	564.410
55.5	575.306	564.410	560.596	558.962	555.148
56.0	564.954	554.603	550.790	549.700	545.342
56.5	555.148	545.342	541.256	540.057	535.753
57.0	545.887	535.535	531.613	530.305	526.219
57.5	536.298	526.056	522.025	520.826	516.577
58.0	526.710	516.685	512.382	511.292	507.043
58.5	517.067	507.260	502.902	501.921	497.890
59.0	507.587	497.781	493.368	492.442	488.574
59.5	498.380	488.193	483.671	483.017	479.367
60.0	488.955	478.659	474.082	473.538	469.996
60.5	479.639	469.343	464.821	464.004	460.517
61.0	470.487	460.027	455.614	454.688	451.255
61.5	460.680	450.820	446.461	445.426	442.103
62.0	451.037	441.340	436.982	436.219	432.732
62.5	441.177	432.569	428.047	427.448	423.852
63.0	431.697	424.833	421.183	420.910	417.968
63.5	422.109	416.388	413.501	412.902	409.851
64.0	416.334	408.162	405.547	404.348	400.862
64.5	407.345	399.391	396.558	395.468	392.199
65.0	397.266	390.020	387.678	386.642	383.483
65.5	386.969	380.541	378.416	377.926	374.711
66.0	377.054	371.279	369.372	369.154	365.722
66.5	367.248	361.800	360.165	360.165	357.114
67.0	357.550	352.375	351.067	351.231	348.452
67.5	348.016	343.113	341.915	342.242	339.518
68.0	338.373	333.852	332.762	333.198	330.365
68.5	328.676	324.427	323.555	324.154	321.376
69.0	318.652	314.947	314.293	314.620	312.060
69.5	308.900	305.631	304.868	305.250	302.907
70.0	299.257	296.206	295.661	295.825	293.755
70.5	289.778	286.727	286.345	286.509	284.547
71.0	280.080	277.302	277.193	277.411	275.286
71.5	270.383	267.877	268.095	268.258	266.406
72.0	260.958	258.397	258.833	259.051	257.471
72.5	251.533	249.081	249.789	250.007	248.700
73.0	242.217	239.983	240.964	241.236	240.092
73.5	233.173	230.994	232.138	232.628	231.375
74.0	224.238	222.005	223.421	223.803	222.985
74.5	215.304	213.179	214.759	215.140	214.541
75.0	206.315	204.408	206.206	206.587	206.097
75.5	197.434	195.637	197.707	198.197	197.652
76.0	188.445	187.192	189.317	189.862	189.426
76.5	179.946	178.857	180.982	181.581	181.200
77.0	171.666	170.467	172.810	173.354	172.755
77.5	163.112	162.295	164.638	165.073	164.474
78.0	154.777	154.123	156.466	157.119	156.520
78.5	146.496	146.169	148.403	149.165	148.675
79.0	138.542	138.215	140.503	141.429	141.048
79.5	130.588	130.424	132.713	133.693	133.366
80.0	122.743	122.797	124.922	126.284	125.848
80.5	114.843	115.334	117.513	118.820	118.493
81.0	107.271	108.033	110.158	111.520	111.302
81.5	99.970	100.787	102.967	104.329	104.165
82.0	93.160	93.705	95.939	97.355	97.192
82.5	86.350	86.841	89.020	90.436	90.327

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**CANDELA TABULATION - (Cont.)**

83.0	79.540	80.303	82.210	83.681	83.790
83.5	72.839	73.765	75.618	77.034	77.361
84.0	66.574	67.337	69.080	70.442	70.933
84.5	60.200	61.017	62.652	64.014	64.504
85.0	54.262	54.915	56.441	57.639	58.075
85.5	48.487	48.814	50.121	51.374	51.810
86.0	42.821	42.930	44.074	45.218	45.763
86.5	37.210	37.210	38.245	39.280	39.770
87.0	31.544	31.544	32.306	33.614	33.995
87.5	25.932	25.987	26.695	28.003	28.493
88.0	20.593	20.539	21.247	22.664	23.208
88.5	15.472	15.145	16.072	17.325	18.087
89.0	10.024	9.861	11.114	12.312	13.130
89.5	4.631	5.502	6.647	7.573	7.845
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.363	1.772	1.636	1.590	1.727
91.0	7.407	3.908	3.181	3.135	3.090
91.5	11.906	7.952	4.726	4.680	4.635
92.0	16.450	13.223	6.816	6.089	6.089
92.5	21.176	18.676	10.542	7.634	7.498
93.0	26.083	23.902	14.905	10.133	9.134
93.5	31.036	28.900	19.585	13.678	11.906
94.0	35.898	33.808	24.765	17.904	15.677
94.5	40.897	38.716	30.173	22.266	19.767
95.0	45.805	43.760	35.489	26.719	23.811
95.5	50.712	48.486	40.670	31.309	28.083
96.0	55.393	53.302	45.759	36.080	32.445
96.5	60.118	58.119	50.848	40.942	36.944
97.0	64.708	62.845	55.892	45.805	41.715
97.5	69.434	67.616	60.982	50.758	46.486
98.0	74.114	72.297	65.935	55.665	51.303
98.5	78.795	77.022	70.706	60.664	56.120
99.0	83.566	81.885	75.568	65.435	60.982
99.5	88.383	86.701	80.476	70.206	65.753
100.0	93.109	91.564	85.384	75.114	70.434
100.5	98.016	96.426	90.291	80.203	75.159
101.0	103.060	101.288	95.290	85.338	80.294
101.5	108.195	106.241	100.379	90.473	85.611
102.0	113.194	111.376	105.469	95.608	90.882
102.5	118.419	116.465	110.740	100.743	96.108
103.0	123.781	121.736	115.965	105.832	101.424
103.5	129.143	127.098	121.509	111.285	106.695
104.0	134.642	132.506	127.144	116.920	112.194
104.5	140.322	138.141	132.779	122.691	117.692
105.0	146.138	143.912	138.368	128.371	123.281
105.5	152.091	149.774	144.139	134.096	128.825
106.0	158.135	155.681	150.001	139.913	134.369
106.5	164.224	161.770	156.135	145.775	139.958
107.0	170.722	168.132	162.679	152.000	146.047
107.5	177.447	174.675	169.313	158.589	152.636
108.0	184.127	181.400	176.084	165.723	159.407
108.5	191.170	188.262	182.855	172.858	166.405
109.0	198.395	195.260	189.807	180.083	173.494
109.5	205.802	202.531	197.123	187.262	180.673
110.0	213.709	209.983	204.621	194.624	188.171
110.5	221.798	217.617	212.300	202.531	195.942

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**CANDELA TABULATION - (Cont.)**

111.0	229.977	225.615	220.253	210.755	203.757
111.5	238.338	233.839	228.341	219.117	211.801
112.0	247.017	242.291	236.384	227.478	219.480
112.5	255.742	250.971	244.518	235.793	227.614
113.0	264.876	259.923	253.106	244.382	236.111
113.5	274.282	269.283	262.195	253.652	245.245
114.0	283.824	278.826	271.828	263.512	255.378
114.5	293.685	288.687	281.643	273.782	266.148
115.0	303.682	298.820	291.822	284.143	277.054
115.5	314.134	309.044	302.274	294.458	287.823
116.0	324.676	319.677	313.088	305.318	298.775
116.5	335.809	330.583	324.267	316.451	310.453
117.0	347.396	341.716	335.536	328.448	322.495
117.5	355.939	350.396	345.851	339.490	334.718
118.0	366.845	360.529	356.439	350.895	345.579
118.5	379.523	372.616	367.254	361.483	355.349
119.0	391.929	384.522	379.523	373.480	366.209
119.5	404.470	397.200	392.519	385.658	378.387
120.0	417.421	410.332	405.561	398.972	391.247
120.5	430.281	423.646	419.011	413.104	404.970
121.0	443.777	437.233	432.553	427.191	419.557
121.5	457.136	450.684	446.049	441.459	433.825
122.0	471.223	464.407	460.317	455.773	448.139
122.5	484.855	478.039	474.404	469.860	461.681
123.0	498.942	492.580	488.945	485.310	476.676
123.5	513.483	507.122	504.395	500.760	492.126
124.0	528.024	522.117	519.391	516.210	508.030
124.5	542.566	536.658	534.386	531.205	523.480
125.0	557.107	551.199	548.927	546.201	538.476
125.5	572.102	566.195	563.923	561.196	553.017
126.0	586.643	580.736	579.373	576.192	567.558
126.5	601.184	595.277	594.823	592.096	583.008
127.0	616.180	610.273	610.273	608.001	599.367
127.5	631.175	624.814	624.814	623.451	615.726
128.0	645.717	639.355	639.809	638.900	631.175
128.5	660.258	653.442	654.350	654.350	646.171
129.0	674.799	667.528	668.892	669.346	661.621
129.5	689.340	682.069	683.887	684.796	677.525
130.0	703.881	696.611	698.883	700.246	694.338
130.5	718.422	710.697	714.333	715.241	710.243
131.0	732.963	724.784	728.874	729.782	724.784
131.5	746.596	738.416	743.415	743.415	738.871
132.0	760.682	752.049	757.501	757.956	752.503
132.5	774.315	766.135	771.588	772.043	766.135
133.0	787.947	780.222	785.220	786.129	779.313
133.5	801.579	793.854	799.307	800.216	793.400
134.0	815.212	807.032	812.485	813.848	807.032
134.5	827.481	820.210	825.209	826.117	820.210
135.0	839.750	832.934	837.478	838.386	832.025
135.5	851.564	846.111	849.747	850.201	843.839
136.0	863.379	858.380	861.107	862.470	856.108
136.5	875.648	870.195	872.467	874.739	868.832
137.0	887.008	882.010	884.282	886.100	880.647
137.5	898.369	892.916	895.188	896.551	891.098
138.0	909.274	903.821	905.639	906.548	901.095
138.5	920.180	914.273	916.091	916.545	910.638

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**CANDELA TABULATION - (Cont.)**

139.0	930.632	924.724	926.542	926.542	920.180
139.5	941.083	935.176	936.539	936.085	929.268
140.0	951.080	944.718	946.536	946.082	939.265
140.5	960.623	953.807	955.624	955.170	947.899
141.0	970.165	963.349	964.712	963.804	956.533
141.5	978.799	971.983	973.801	972.437	964.258
142.0	987.887	981.071	982.434	980.617	972.437
142.5	996.521	989.705	991.068	989.251	980.162
143.0	1005.155	997.884	999.248	997.430	988.342
143.5	1013.334	1006.518	1007.427	1005.609	996.067
144.0	1021.059	1014.698	1015.152	1012.880	1003.337
144.5	1028.784	1022.423	1022.877	1020.150	1010.608
145.0	1036.055	1030.147	1030.147	1026.967	1017.424
145.5	1043.780	1037.872	1037.418	1034.692	1024.695
146.0	1051.050	1045.143	1044.689	1041.508	1031.965
146.5	1058.321	1052.414	1051.505	1048.778	1039.236
147.0	1065.137	1059.684	1057.866	1056.049	1046.506
147.5	1071.953	1066.500	1064.683	1062.865	1053.322
148.0	1078.769	1073.316	1070.590	1069.227	1060.593
148.5	1085.586	1080.133	1076.497	1075.588	1067.864
149.0	1091.947	1086.949	1082.405	1081.950	1075.134
149.5	1098.309	1093.310	1087.858	1088.312	1081.950
150.0	1104.671	1099.672	1093.765	1094.219	1088.312
150.5	1111.032	1106.034	1099.218	1099.672	1094.674
151.0	1116.940	1111.941	1104.671	1105.125	1100.581
151.5	1123.302	1117.849	1110.578	1110.578	1106.034
152.0	1129.209	1123.756	1116.031	1115.577	1111.487
152.5	1135.116	1129.209	1121.484	1121.029	1116.485
153.0	1141.024	1134.662	1126.937	1126.482	1121.029
153.5	1146.476	1140.115	1132.390	1131.935	1125.119
154.0	1151.929	1145.568	1138.297	1137.388	1129.663
154.5	1157.837	1150.566	1143.750	1142.387	1134.207
155.0	1163.290	1155.565	1149.203	1147.840	1139.206
155.5	1168.288	1160.109	1154.656	1153.293	1144.204
156.0	1173.287	1165.107	1160.563	1158.291	1149.203
156.5	1178.285	1170.106	1166.016	1163.744	1154.201
157.0	1183.284	1175.104	1171.469	1169.197	1159.200
157.5	1187.828	1179.648	1176.468	1174.195	1164.198
158.0	1192.372	1184.192	1181.466	1179.194	1169.197
158.5	1197.370	1189.191	1186.465	1184.192	1174.650
159.0	1201.460	1193.735	1191.009	1189.191	1179.648
159.5	1206.004	1198.279	1195.553	1194.189	1184.647
160.0	1210.094	1202.369	1200.097	1198.734	1189.645
160.5	1214.184	1206.459	1204.187	1203.278	1194.644
161.0	1218.273	1210.548	1208.276	1207.822	1199.642
161.5	1222.363	1215.092	1211.911	1212.366	1204.641
162.0	1226.907	1219.182	1215.547	1216.910	1209.185
162.5	1230.997	1223.272	1219.182	1221.000	1213.275
163.0	1235.086	1227.361	1222.817	1225.089	1217.364
163.5	1239.176	1230.997	1226.453	1229.179	1221.000
164.0	1243.266	1234.632	1229.633	1232.814	1224.635
164.5	1246.447	1238.267	1232.814	1236.450	1228.270
165.0	1250.082	1241.903	1235.995	1240.085	1231.451
165.5	1253.717	1245.083	1239.176	1243.266	1234.632
166.0	1257.352	1248.264	1242.357	1246.447	1237.358
166.5	1260.988	1251.445	1245.538	1249.173	1240.539

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**CANDELA TABULATION - (Cont.)**

167.0	1264.169	1254.172	1248.264	1251.900	1243.266
167.5	1267.350	1256.898	1251.445	1254.626	1246.447
168.0	1270.530	1259.625	1254.172	1257.352	1249.173
168.5	1273.711	1262.351	1256.898	1260.079	1252.354
169.0	1276.438	1264.623	1259.625	1262.351	1255.080
169.5	1278.710	1266.895	1261.897	1264.623	1257.807
170.0	1280.982	1269.167	1264.169	1266.895	1260.988
170.5	1283.254	1271.439	1265.986	1269.167	1263.260
171.0	1285.526	1273.257	1267.804	1271.439	1265.532
171.5	1287.344	1275.074	1269.622	1273.711	1267.804
172.0	1289.161	1276.892	1270.985	1275.529	1269.622
172.5	1290.979	1278.710	1272.348	1276.892	1270.985
173.0	1292.796	1280.527	1273.711	1278.710	1271.894
173.5	1294.160	1281.891	1275.074	1279.619	1272.802
174.0	1295.523	1283.254	1276.438	1280.527	1273.257
174.5	1296.432	1284.163	1277.347	1281.436	1273.711
175.0	1297.341	1285.526	1278.255	1281.891	1273.711
175.5	1298.249	1286.435	1279.619	1282.345	1274.166
176.0	1299.158	1287.344	1280.527	1282.345	1274.166
176.5	1299.613	1288.252	1280.982	1282.799	1274.166
177.0	1300.067	1289.161	1281.891	1282.799	1273.711
177.5	1300.976	1290.070	1282.799	1282.799	1273.711
178.0	1301.430	1290.070	1283.254	1282.799	1274.166
178.5	1301.430	1290.524	1283.708	1282.799	1274.166
179.0	1301.885	1290.979	1283.708	1282.799	1274.166
179.5	1302.339	1290.979	1284.163	1282.799	1274.166
180.0	1286.435	1286.435	1286.435	1286.435	1286.435



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L8-830D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.39	N.A.	7.10
0-30	981.34	N.A.	14.90
0-40	1576.54	N.A.	23.90
0-60	2678.89	N.A.	40.60
0-80	3280.6	N.A.	49.70
0-90	3344.18	N.A.	50.70
10-90	3221.66	N.A.	48.80
20-40	1107.14	N.A.	16.80
20-50	1697.99	N.A.	25.70
40-70	1485.46	N.A.	22.50
60-80	601.71	N.A.	9.10
70-80	218.61	N.A.	3.30
80-90	63.58	N.A.	1.00
90-110	186.17	N.A.	2.80
90-120	477.91	N.A.	7.20
90-130	968.18	N.A.	14.70
90-150	2251.9	N.A.	34.10
90-180	3254.59	N.A.	49.30
110-180	3068.42	N.A.	46.50
0-180	6598.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.52
10-20	346.87
20-30	511.95
30-40	595.20
40-50	590.85
50-60	511.50
60-70	383.10
70-80	218.61
80-90	63.58
90-100	40.15
100-110	146.02
110-120	291.74
120-130	490.26
130-140	641.06
140-150	642.66
150-160	530.87
160-170	349.82
170-180	122.00

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**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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	45	40	45	39	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	25	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L8-830D-F-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	15.5	16.4	16.5	17.4	18.6	UGR Viewed Endwise	15.4	16.3	16.4	17.3	18.5
	3H	17.3	18.1	18.2	19.0	20.3		17.2	18.0	18.1	18.9	20.2
	4H	17.9	18.6	18.9	19.6	20.9		17.8	18.6	18.8	19.5	20.8
	6H	18.3	19.0	19.3	20.0	21.3		18.3	19.0	19.3	19.9	21.2
	8H	18.5	19.1	19.4	20.1	21.4		18.4	19.1	19.4	20.1	21.4
	12H	18.5	19.2	19.5	20.1	21.5		18.5	19.1	19.5	20.1	21.5

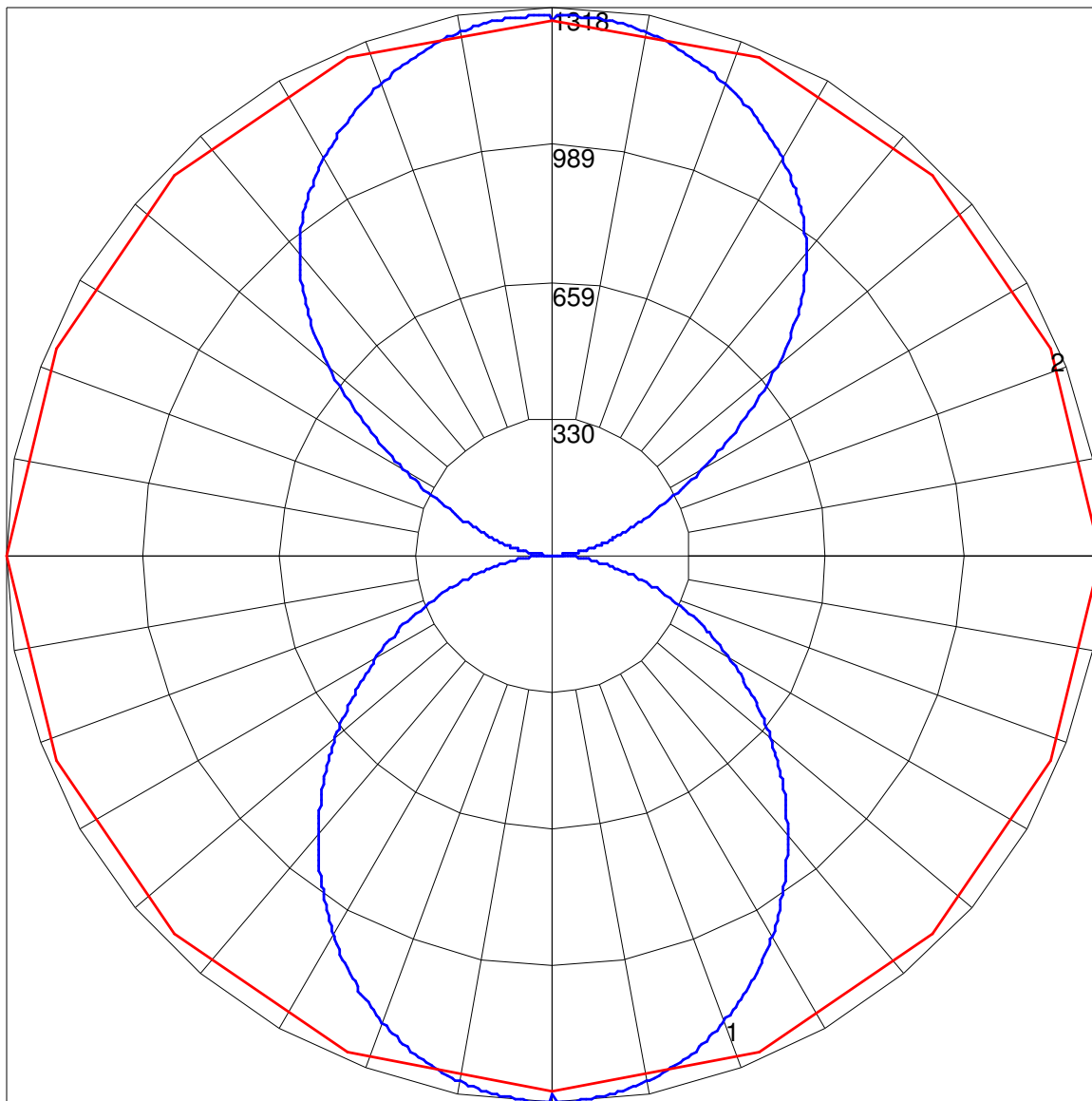
4H	2H	16.0	16.8	17.0	17.8	19.1	16.0	16.7	16.9	17.7	19.0
	3H	18.0	18.6	19.0	19.6	20.9	17.9	18.6	18.9	19.6	20.9
	4H	18.8	19.3	19.7	20.3	21.6	18.7	19.3	19.7	20.3	21.6
	6H	19.3	19.8	20.3	20.8	22.1	19.3	19.8	20.3	20.8	22.1
	8H	19.5	19.9	20.5	21.0	22.3	19.5	19.9	20.5	21.0	22.3
	12H	19.6	20.0	20.6	21.0	22.4	19.6	20.0	20.7	21.1	22.4

8H	4H	19.0	19.5	20.0	20.5	21.8	19.0	19.4	20.0	20.4	21.8
	6H	19.7	20.1	20.7	21.1	22.5	19.7	20.1	20.7	21.1	22.4
	8H	19.9	20.3	21.0	21.3	22.7	20.0	20.3	21.0	21.3	22.7
	12H	20.1	20.4	21.2	21.5	22.9	20.2	20.5	21.2	21.5	22.9

12H	4H	19.0	19.4	20.0	20.4	21.8	18.9	19.4	20.0	20.4	21.7
	6H	19.7	20.1	20.8	21.1	22.5	19.7	20.1	20.8	21.1	22.5
	8H	20.0	20.3	21.1	21.4	22.8	20.0	20.3	21.1	21.4	22.8

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1318.409 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)