

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L8-935D-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-L8-935U-L8-935D-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	5532
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	7504	7317	7233
55	6898	6731	6660
65	6363	6209	6142
75	5396	5393	5390
85	4214	4383	4510

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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	1088.890	1088.890	1088.890	1088.890	1088.890
0.5	1105.333	1089.803	1084.322	1086.606	1082.952
1.0	1105.333	1089.346	1084.322	1086.606	1082.952
1.5	1104.876	1088.890	1083.865	1086.606	1082.495
2.0	1104.419	1088.433	1083.409	1086.149	1082.495
2.5	1103.962	1087.976	1082.495	1085.692	1082.038
3.0	1103.049	1087.063	1082.038	1085.236	1081.125
3.5	1102.135	1086.149	1081.125	1084.322	1080.211
4.0	1101.222	1085.236	1080.211	1083.409	1079.298
4.5	1100.308	1083.865	1079.298	1082.495	1077.928
5.0	1099.395	1082.952	1077.928	1081.125	1076.557
5.5	1098.025	1081.582	1076.557	1079.755	1075.187
6.0	1096.654	1079.755	1075.187	1078.384	1073.360
6.5	1094.827	1078.384	1073.360	1076.557	1071.990
7.0	1093.457	1076.557	1071.990	1074.730	1070.163
7.5	1092.087	1074.730	1070.163	1072.903	1068.793
8.0	1089.803	1072.903	1067.879	1071.076	1066.966
8.5	1087.976	1070.620	1065.595	1068.793	1064.682
9.0	1085.692	1068.793	1063.768	1066.509	1062.398
9.5	1083.409	1066.509	1061.028	1063.768	1060.114
10.0	1081.125	1064.225	1058.744	1061.485	1057.374
10.5	1078.384	1061.485	1056.004	1058.744	1055.090
11.0	1076.101	1058.744	1053.263	1056.004	1051.893
11.5	1072.903	1056.004	1050.523	1053.263	1049.152
12.0	1070.163	1053.263	1047.782	1050.066	1045.955
12.5	1067.422	1050.066	1044.585	1046.869	1042.758
13.0	1064.225	1047.325	1041.388	1043.671	1039.561
13.5	1061.028	1043.671	1038.190	1040.017	1036.363
14.0	1057.831	1040.474	1034.536	1036.820	1033.166
14.5	1054.633	1037.277	1030.882	1033.166	1029.512
15.0	1051.436	1033.623	1027.228	1029.512	1025.858
15.5	1047.325	1030.426	1023.574	1025.401	1021.747
16.0	1042.758	1026.772	1019.464	1021.747	1018.094
16.5	1038.190	1022.661	1015.353	1017.637	1013.983
17.0	1034.080	1018.550	1011.242	1013.526	1009.872
17.5	1029.512	1013.983	1006.675	1008.959	1005.305
18.0	1024.945	1009.415	1002.107	1004.391	1000.737
18.5	1020.377	1004.848	997.540	999.367	996.170
19.0	1015.810	1000.280	993.429	994.799	990.689
19.5	1010.786	995.713	988.862	989.318	985.208
20.0	1006.218	990.689	984.751	984.294	979.727
20.5	1001.194	986.121	980.183	978.813	974.246
21.0	996.170	981.097	975.159	973.332	968.308
21.5	990.689	976.073	969.678	967.851	962.370
22.0	985.664	970.592	963.740	961.913	956.889
22.5	980.183	965.111	958.259	955.976	950.951
23.0	974.702	959.630	952.778	949.581	945.014
23.5	969.221	954.149	946.841	943.643	939.533
24.0	963.284	948.668	941.360	937.706	933.595
24.5	957.346	942.730	935.422	931.768	927.657
25.0	951.865	936.792	929.484	925.830	921.719
25.5	945.927	930.854	923.090	919.892	915.325
26.0	939.533	924.460	917.152	913.955	909.387
26.5	933.595	918.522	910.757	908.017	903.450

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**CANDELA TABULATION - (Cont.)**

27.0	927.200	912.128	904.363	902.079	897.055
27.5	920.806	905.733	898.425	896.142	891.117
28.0	914.411	898.882	891.574	889.747	884.723
28.5	907.560	892.031	885.180	883.809	878.328
29.0	900.709	885.636	878.785	877.415	871.934
29.5	894.315	878.785	872.391	870.564	865.996
30.0	887.463	871.934	865.996	864.169	859.602
30.5	880.612	865.083	859.145	857.775	853.207
31.0	873.304	858.688	852.294	850.923	846.813
31.5	866.453	851.837	845.442	844.072	839.961
32.0	859.145	844.529	838.591	836.764	833.110
32.5	851.837	837.678	831.740	829.913	825.802
33.0	844.529	830.826	824.889	823.062	818.494
33.5	837.678	823.518	817.581	815.754	811.643
34.0	829.913	816.210	810.729	808.446	804.335
34.5	822.605	808.902	802.965	801.138	796.570
35.0	815.297	802.051	795.657	793.830	788.806
35.5	807.532	794.286	788.349	786.522	781.041
36.0	799.767	786.979	781.041	778.757	773.733
36.5	792.459	779.671	773.733	771.449	766.425
37.0	784.695	771.906	765.968	763.684	758.660
37.5	776.930	764.141	758.660	755.920	751.352
38.0	768.709	756.376	750.895	748.155	743.587
38.5	760.944	748.612	743.131	740.847	735.823
39.0	753.636	740.847	735.366	733.082	728.515
39.5	745.414	733.082	728.058	725.317	720.293
40.0	737.650	724.861	720.293	717.553	712.985
40.5	729.428	717.096	712.528	709.788	705.220
41.0	721.663	708.874	704.764	701.566	696.999
41.5	713.442	701.110	696.542	693.802	688.777
42.0	705.677	692.888	688.777	686.037	681.013
42.5	697.912	685.123	681.013	677.816	673.248
43.0	689.691	677.359	673.248	670.051	665.027
43.5	681.926	669.137	665.027	662.286	657.262
44.0	673.705	660.916	656.805	654.065	649.497
44.5	665.483	652.694	648.584	645.843	641.276
45.0	657.262	644.930	640.819	637.622	633.511
45.5	649.497	636.708	632.597	629.857	625.746
46.0	641.276	628.487	624.376	621.635	617.981
46.5	633.054	620.265	616.611	613.871	610.217
47.0	624.833	612.044	608.390	605.649	601.995
47.5	616.154	603.822	600.168	597.428	594.230
48.0	607.933	595.601	591.947	589.663	586.009
48.5	599.711	587.379	584.182	581.441	577.787
49.0	591.033	579.158	575.960	573.220	570.023
49.5	582.812	570.936	567.739	565.455	562.258
50.0	574.133	562.715	559.518	557.234	554.037
50.5	565.455	554.493	551.296	549.012	546.272
51.0	556.777	546.272	543.075	540.791	538.050
51.5	548.556	538.050	534.853	533.026	529.829
52.0	540.334	529.829	526.632	524.805	522.064
52.5	531.656	521.607	518.410	517.040	513.843
53.0	523.434	513.386	510.189	508.818	505.621
53.5	514.756	505.164	501.967	500.597	497.400
54.0	506.535	496.943	494.202	492.832	489.178
54.5	498.313	489.178	485.981	484.611	480.957

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**CANDELA TABULATION - (Cont.)**

55.0	490.092	481.413	478.216	476.846	473.192
55.5	482.327	473.192	469.995	468.624	465.427
56.0	473.649	464.970	461.773	460.860	457.206
56.5	465.427	457.206	453.780	452.775	449.167
57.0	457.662	448.984	445.696	444.599	441.174
57.5	449.624	441.037	437.657	436.652	433.089
58.0	441.585	433.181	429.572	428.659	425.096
58.5	433.500	425.279	421.625	420.803	417.423
59.0	425.553	417.332	413.632	412.855	409.612
59.5	417.834	409.293	405.502	404.954	401.893
60.0	409.932	401.300	397.463	397.006	394.037
60.5	402.122	393.489	389.698	389.013	386.090
61.0	394.448	385.679	381.979	381.203	378.325
61.5	386.227	377.960	374.306	373.438	370.652
62.0	378.143	370.012	366.358	365.719	362.796
62.5	369.875	362.659	358.868	358.365	355.351
63.0	361.928	356.173	353.113	352.884	350.418
63.5	353.889	349.093	346.672	346.170	343.612
64.0	349.048	342.196	340.004	338.999	336.076
64.5	341.511	334.843	332.468	331.554	328.814
65.0	333.061	326.987	325.023	324.155	321.506
65.5	324.429	319.039	317.258	316.847	314.152
66.0	316.116	311.274	309.676	309.493	306.616
66.5	307.894	303.327	301.957	301.957	299.399
67.0	299.764	295.425	294.329	294.466	292.137
67.5	291.771	287.660	286.656	286.930	284.646
68.0	283.687	279.896	278.982	279.348	276.973
68.5	275.557	271.994	271.263	271.766	269.436
69.0	267.153	264.047	263.499	263.773	261.626
69.5	258.977	256.236	255.597	255.916	253.952
70.0	250.892	248.334	247.878	248.015	246.279
70.5	242.945	240.387	240.067	240.204	238.560
71.0	234.815	232.485	232.394	232.577	230.795
71.5	226.685	224.583	224.766	224.903	223.350
72.0	218.783	216.636	217.001	217.184	215.860
72.5	210.881	208.826	209.419	209.602	208.506
73.0	203.071	201.198	202.020	202.248	201.289
73.5	195.489	193.662	194.621	195.032	193.981
74.0	187.998	186.125	187.313	187.632	186.947
74.5	180.507	178.726	180.050	180.370	179.868
75.0	172.971	171.372	172.880	173.199	172.788
75.5	165.526	164.019	165.754	166.165	165.709
76.0	157.990	156.939	158.720	159.177	158.812
76.5	150.864	149.951	151.732	152.234	151.915
77.0	143.922	142.917	144.881	145.338	144.835
77.5	136.751	136.066	138.030	138.395	137.893
78.0	129.762	129.214	131.178	131.726	131.224
78.5	122.820	122.546	124.418	125.058	124.647
79.0	116.151	115.877	117.796	118.572	118.252
79.5	109.483	109.346	111.264	112.086	111.812
80.0	102.906	102.951	104.733	105.874	105.509
80.5	96.283	96.694	98.521	99.617	99.343
81.0	89.934	90.573	92.355	93.497	93.314
81.5	83.813	84.499	86.326	87.467	87.330
82.0	78.104	78.561	80.433	81.621	81.484
82.5	72.395	72.806	74.633	75.820	75.729

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**CANDELA TABULATION - (Cont.)**

83.0	66.685	67.325	68.923	70.157	70.248
83.5	61.067	61.844	63.397	64.584	64.858
84.0	55.815	56.454	57.916	59.058	59.469
84.5	50.471	51.156	52.526	53.668	54.079
85.0	45.492	46.040	47.319	48.324	48.689
85.5	40.651	40.925	42.021	43.071	43.437
86.0	35.900	35.992	36.951	37.910	38.367
86.5	31.196	31.196	32.064	32.932	33.343
87.0	26.446	26.446	27.085	28.181	28.501
87.5	21.741	21.787	22.381	23.477	23.888
88.0	17.265	17.219	17.813	19.001	19.458
88.5	12.972	12.698	13.474	14.525	15.164
89.0	8.404	8.267	9.318	10.323	11.008
89.5	3.882	4.613	5.572	6.349	6.577
90.0	0.000	0.000	0.000	0.000	0.000
90.5	2.819	1.486	1.371	1.333	1.448
91.0	6.210	3.276	2.667	2.629	2.591
91.5	9.981	6.667	3.962	3.924	3.886
92.0	13.791	11.086	5.715	5.105	5.105
92.5	17.753	15.658	8.839	6.400	6.286
93.0	21.868	20.039	12.496	8.496	7.657
93.5	26.020	24.230	16.420	11.467	9.981
94.0	30.097	28.344	20.763	15.010	13.143
94.5	34.287	32.459	25.296	18.668	16.572
95.0	38.402	36.687	29.754	22.401	19.963
95.5	42.516	40.649	34.097	26.249	23.544
96.0	46.440	44.688	38.364	30.249	27.201
96.5	50.402	48.726	42.631	34.325	30.973
97.0	54.250	52.688	46.859	38.402	34.973
97.5	58.212	56.688	51.126	42.554	38.973
98.0	62.136	60.612	55.279	46.669	43.012
98.5	66.060	64.574	59.279	50.859	47.050
99.0	70.060	68.651	63.355	54.860	51.126
99.5	74.099	72.689	67.470	58.860	55.126
100.0	78.061	76.765	71.584	62.974	59.050
100.5	82.175	80.842	75.699	67.241	63.012
101.0	86.404	84.918	79.889	71.546	67.317
101.5	90.709	89.071	84.156	75.851	71.775
102.0	94.900	93.376	88.423	80.156	76.194
102.5	99.281	97.643	92.842	84.461	80.575
103.0	103.776	102.062	97.224	88.728	85.033
103.5	108.272	106.557	101.871	93.300	89.452
104.0	112.881	111.091	106.595	98.024	94.061
104.5	117.644	115.815	111.319	102.862	98.671
105.0	122.520	120.653	116.005	107.624	103.357
105.5	127.511	125.568	120.844	112.424	108.005
106.0	132.578	130.520	125.758	117.301	112.653
106.5	137.683	135.625	130.901	122.215	117.339
107.0	143.130	140.959	136.387	127.434	122.444
107.5	148.769	146.445	141.949	132.959	127.968
108.0	154.369	152.083	147.626	138.940	133.644
108.5	160.274	157.836	153.302	144.921	139.511
109.0	166.331	163.703	159.131	150.978	145.454
109.5	172.541	169.798	165.265	156.998	151.474
110.0	179.170	176.046	171.551	163.169	157.760
110.5	185.951	182.447	177.989	169.798	164.274

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**CANDELA TABULATION - (Cont.)**

111.0	192.809	189.152	184.656	176.694	170.827
111.5	199.819	196.047	191.437	183.704	177.570
112.0	207.095	203.133	198.181	190.714	184.009
112.5	214.410	210.410	205.000	197.685	190.828
113.0	222.067	217.915	212.200	204.886	197.952
113.5	229.953	225.763	219.820	212.657	205.610
114.0	237.954	233.763	227.896	220.924	214.105
114.5	246.221	242.030	236.125	229.534	223.134
115.0	254.602	250.526	244.659	238.221	232.277
115.5	263.365	259.098	253.421	246.869	241.306
116.0	272.203	268.012	262.488	255.974	250.488
116.5	281.537	277.156	271.860	265.308	260.279
117.0	291.252	286.489	281.308	275.365	270.374
117.5	298.414	293.766	289.956	284.623	280.622
118.0	307.557	302.262	298.833	294.185	289.728
118.5	318.186	312.395	307.900	303.062	297.919
119.0	328.587	322.377	318.186	313.119	307.024
119.5	339.101	333.006	329.082	323.329	317.234
120.0	349.959	344.016	340.016	334.492	328.015
120.5	360.740	355.178	351.292	346.340	339.520
121.0	372.055	366.569	362.645	358.150	351.750
121.5	383.256	377.846	373.960	370.112	363.712
122.0	395.066	389.351	385.923	382.113	375.713
122.5	406.495	400.780	397.733	393.923	387.066
123.0	418.305	412.971	409.924	406.876	399.638
123.5	430.496	425.163	422.877	419.829	412.591
124.0	442.687	437.735	435.449	432.782	425.924
124.5	454.878	449.926	448.021	445.354	438.877
125.0	467.069	462.117	460.212	457.926	451.449
125.5	479.641	474.689	472.784	470.498	463.640
126.0	491.832	486.880	485.737	483.070	475.832
126.5	504.023	499.071	498.690	496.404	488.785
127.0	516.595	511.643	511.643	509.738	502.499
127.5	529.167	523.834	523.834	522.691	516.214
128.0	541.358	536.025	536.406	535.644	529.167
128.5	553.549	547.835	548.597	548.597	541.739
129.0	565.740	559.645	560.788	561.169	554.692
129.5	577.931	571.836	573.360	574.122	568.026
130.0	590.123	584.027	585.932	587.075	582.122
130.5	602.314	595.837	598.885	599.647	595.456
131.0	614.505	607.647	611.076	611.838	607.647
131.5	625.934	619.076	623.267	623.267	619.457
132.0	637.744	630.505	635.077	635.458	630.886
132.5	649.173	642.315	646.887	647.268	642.315
133.0	660.602	654.125	658.316	659.078	653.364
133.5	672.031	665.555	670.126	670.888	665.174
134.0	683.460	676.603	681.174	682.317	676.603
134.5	693.746	687.651	691.842	692.603	687.651
135.0	704.033	698.318	702.128	702.890	697.556
135.5	713.938	709.366	712.414	712.795	707.461
136.0	723.843	719.652	721.938	723.081	717.747
136.5	734.129	729.558	731.462	733.367	728.415
137.0	743.653	739.463	741.368	742.891	738.320
137.5	753.178	748.606	750.511	751.654	747.082
138.0	762.321	757.749	759.273	760.035	755.463
138.5	771.464	766.512	768.036	768.416	763.464

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-935U-L8-935D-F-F-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

139.0	780.227	775.274	776.798	776.798	771.464
139.5	788.989	784.036	785.179	784.798	779.084
140.0	797.370	792.037	793.560	793.180	787.465
140.5	805.371	799.656	801.180	800.799	794.703
141.0	813.371	807.656	808.799	808.037	801.942
141.5	820.609	814.895	816.419	815.276	808.418
142.0	828.229	822.514	823.657	822.133	815.276
142.5	835.467	829.753	830.896	829.372	821.752
143.0	842.706	836.610	837.753	836.229	828.610
143.5	849.563	843.849	844.610	843.087	835.086
144.0	856.040	850.706	851.087	849.182	841.182
144.5	862.516	857.182	857.563	855.278	847.277
145.0	868.612	863.659	863.659	860.992	852.992
145.5	875.088	870.135	869.754	867.469	859.087
146.0	881.184	876.231	875.850	873.183	865.183
146.5	887.279	882.327	881.565	879.279	871.278
147.0	892.994	888.422	886.898	885.374	877.374
147.5	898.708	894.137	892.613	891.089	883.088
148.0	904.423	899.851	897.565	896.422	889.184
148.5	910.137	905.566	902.518	901.756	895.279
149.0	915.471	911.280	907.471	907.090	901.375
149.5	920.804	916.614	912.042	912.423	907.090
150.0	926.138	921.947	916.995	917.376	912.423
150.5	931.472	927.281	921.566	921.947	917.757
151.0	936.424	932.234	926.138	926.519	922.709
151.5	941.758	937.186	931.091	931.091	927.281
152.0	946.710	942.139	935.662	935.281	931.853
152.5	951.663	946.710	940.234	939.853	936.043
153.0	956.616	951.282	944.806	944.425	939.853
153.5	961.187	955.854	949.377	948.996	943.282
154.0	965.759	960.425	954.330	953.568	947.091
154.5	970.712	964.616	958.901	957.759	950.901
155.0	975.283	968.807	963.473	962.330	955.092
155.5	979.474	972.616	968.045	966.902	959.282
156.0	983.665	976.807	972.997	971.093	963.473
156.5	987.855	980.998	977.569	975.664	967.664
157.0	992.046	985.188	982.141	980.236	971.854
157.5	995.856	988.998	986.331	984.426	976.045
158.0	999.665	992.808	990.522	988.617	980.236
158.5	1003.856	996.998	994.713	992.808	984.807
159.0	1007.285	1000.808	998.522	996.998	988.998
159.5	1011.094	1004.618	1002.332	1001.189	993.189
160.0	1014.523	1008.047	1006.142	1004.999	997.379
160.5	1017.952	1011.475	1009.570	1008.809	1001.570
161.0	1021.381	1014.904	1012.999	1012.618	1005.761
161.5	1024.809	1018.714	1016.047	1016.428	1009.951
162.0	1028.619	1022.142	1019.095	1020.238	1013.761
162.5	1032.048	1025.571	1022.142	1023.666	1017.190
163.0	1035.476	1029.000	1025.190	1027.095	1020.619
163.5	1038.905	1032.048	1028.238	1030.524	1023.666
164.0	1042.334	1035.095	1030.905	1033.572	1026.714
164.5	1045.001	1038.143	1033.572	1036.619	1029.762
165.0	1048.048	1041.191	1036.238	1039.667	1032.429
165.5	1051.096	1043.858	1038.905	1042.334	1035.095
166.0	1054.144	1046.525	1041.572	1045.001	1037.381
166.5	1057.192	1049.191	1044.239	1047.287	1040.048

CANDELA TABULATION - (Cont.)

167.0	1059.859	1051.477	1046.525	1049.572	1042.334
167.5	1062.525	1053.763	1049.191	1051.858	1045.001
168.0	1065.192	1056.049	1051.477	1054.144	1047.287
168.5	1067.859	1058.335	1053.763	1056.430	1049.953
169.0	1070.145	1060.239	1056.049	1058.335	1052.239
169.5	1072.050	1062.144	1057.954	1060.239	1054.525
170.0	1073.954	1064.049	1059.859	1062.144	1057.192
170.5	1075.859	1065.954	1061.382	1064.049	1059.097
171.0	1077.764	1067.478	1062.906	1065.954	1061.001
171.5	1079.288	1069.002	1064.430	1067.859	1062.906
172.0	1080.812	1070.526	1065.573	1069.383	1064.430
172.5	1082.336	1072.050	1066.716	1070.526	1065.573
173.0	1083.860	1073.573	1067.859	1072.050	1066.335
173.5	1085.003	1074.716	1069.002	1072.811	1067.097
174.0	1086.145	1075.859	1070.145	1073.573	1067.478
174.5	1086.907	1076.621	1070.907	1074.335	1067.859
175.0	1087.669	1077.764	1071.669	1074.716	1067.859
175.5	1088.431	1078.526	1072.811	1075.097	1068.240
176.0	1089.193	1079.288	1073.573	1075.097	1068.240
176.5	1089.574	1080.050	1073.954	1075.478	1068.240
177.0	1089.955	1080.812	1074.716	1075.478	1067.859
177.5	1090.717	1081.574	1075.478	1075.478	1067.859
178.0	1091.098	1081.574	1075.859	1075.478	1068.240
178.5	1091.098	1081.955	1076.240	1075.478	1068.240
179.0	1091.479	1082.336	1076.240	1075.478	1068.240
179.5	1091.860	1082.336	1076.621	1075.478	1068.240
180.0	1078.526	1078.526	1078.526	1078.526	1078.526



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	393.53	N.A.	7.10
0-30	822.74	N.A.	14.90
0-40	1321.74	N.A.	23.90
0-60	2245.94	N.A.	40.60
0-80	2750.4	N.A.	49.70
0-90	2803.7	N.A.	50.70
10-90	2700.98	N.A.	48.80
20-40	928.21	N.A.	16.80
20-50	1423.57	N.A.	25.70
40-70	1245.38	N.A.	22.50
60-80	504.46	N.A.	9.10
70-80	183.28	N.A.	3.30
80-90	53.30	N.A.	1.00
90-110	156.08	N.A.	2.80
90-120	400.68	N.A.	7.20
90-130	811.70	N.A.	14.70
90-150	1887.96	N.A.	34.10
90-180	2728.6	N.A.	49.30
110-180	2572.52	N.A.	46.50
0-180	5532.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.72
10-20	290.81
20-30	429.21
30-40	499.00
40-50	495.36
50-60	428.83
60-70	321.19
70-80	183.28
80-90	53.30
90-100	33.66
100-110	122.42
110-120	244.59
120-130	411.03
130-140	537.46
140-150	538.80
150-160	445.08
160-170	293.29
170-180	102.28

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-L8-935U-L8-935D-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	14.8	15.7	15.8	16.7	17.9	UGR Viewed Endwise			
	3H	16.6	17.4	17.5	18.3	19.6	14.7	15.6	15.7	16.6
	4H	17.2	17.9	18.2	18.9	20.2	16.5	17.3	17.4	18.2
	6H	17.6	18.3	18.6	19.3	20.6	17.1	17.9	18.1	18.8
	8H	17.8	18.4	18.7	19.4	20.7	17.6	18.3	18.6	19.2
	12H	17.8	18.5	18.8	19.4	20.8	17.7	18.4	18.7	19.4

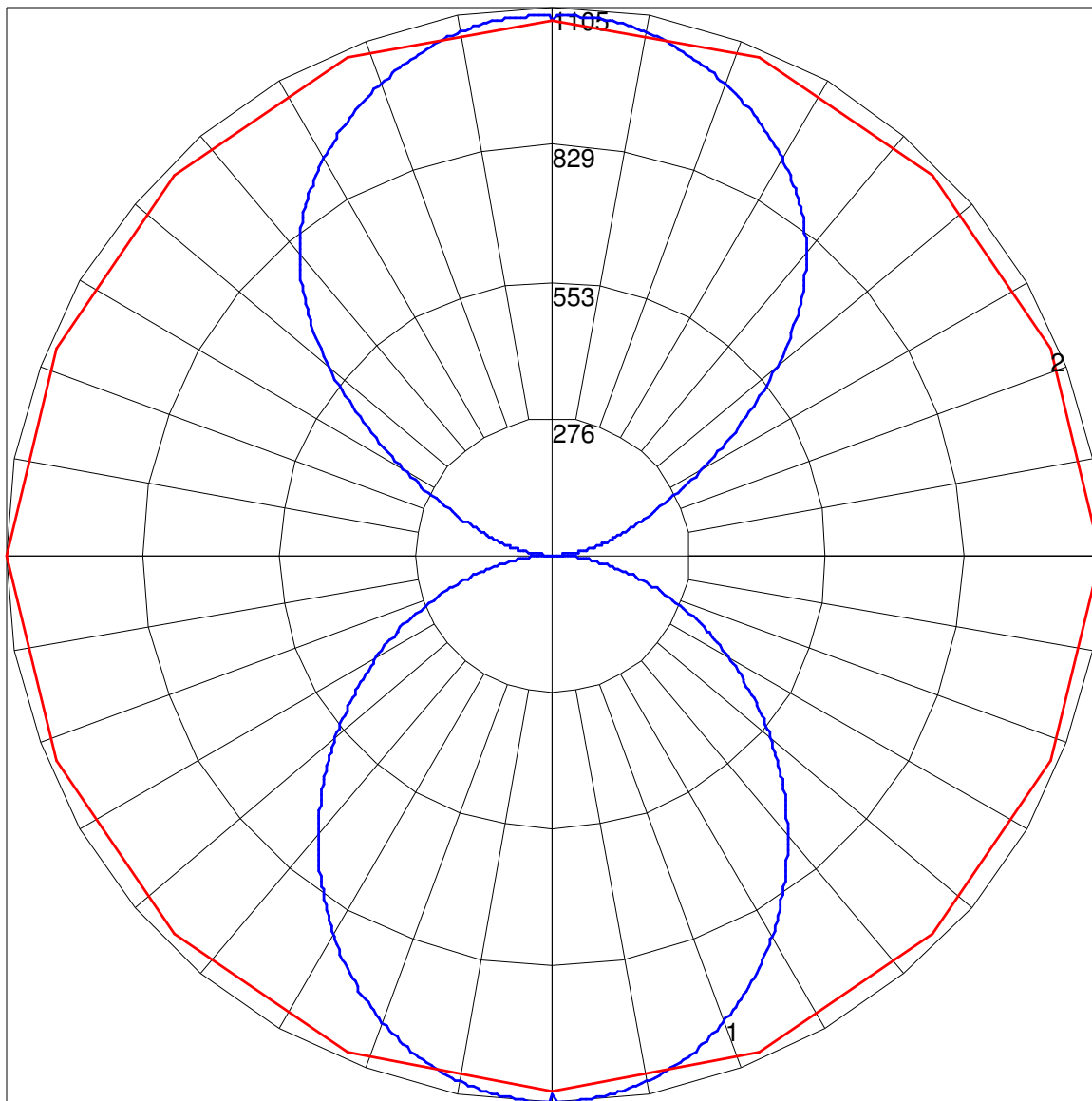
4H	2H	15.3	16.1	16.3	17.1	18.4	17.8	18.4	18.8	19.4
	3H	17.3	17.9	18.3	18.9	20.2	14.7	15.6	15.7	16.6
	4H	18.1	18.6	19.0	19.6	20.9	16.5	17.3	17.4	18.2
	6H	18.6	19.1	19.6	20.1	21.4	17.1	17.9	18.1	18.8
	8H	18.8	19.2	19.8	20.3	21.6	17.6	18.3	18.6	19.2
	12H	18.9	19.3	19.9	20.3	21.7	17.7	18.4	18.7	19.4

8H	4H	18.3	18.8	19.3	19.8	21.1	17.8	18.4	18.8	19.4
	6H	19.0	19.4	20.0	20.4	21.8	14.7	15.6	15.7	16.6
	8H	19.2	19.6	20.3	20.6	22.0	16.5	17.3	17.4	18.2
	12H	19.4	19.7	20.5	20.8	22.2	17.1	17.9	18.1	18.8

12H	4H	18.3	18.7	19.3	19.7	21.1	17.6	18.3	18.6	19.2
	6H	19.0	19.4	20.1	20.4	21.8	17.7	18.4	18.7	19.4
	8H	19.3	19.6	20.4	20.7	22.1	17.8	18.4	18.8	19.4

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1105.333 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.)