

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-940U-L8-940D-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] MX4WUDC-4-00-L8-940U-L8-940D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

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

[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	5732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	7776	7581	7495
55	7148	6974	6901
65	6593	6433	6364
75	5591	5588	5585
85	4366	4542	4673

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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	1128.247	1128.247	1128.247	1128.247	1128.247
0.5	1145.284	1129.194	1123.515	1125.881	1122.095
1.0	1145.284	1128.720	1123.515	1125.881	1122.095
1.5	1144.811	1128.247	1123.041	1125.881	1121.621
2.0	1144.338	1127.774	1122.568	1125.408	1121.621
2.5	1143.865	1127.301	1121.621	1124.934	1121.148
3.0	1142.918	1126.354	1121.148	1124.461	1120.202
3.5	1141.972	1125.408	1120.202	1123.515	1119.255
4.0	1141.025	1124.461	1119.255	1122.568	1118.309
4.5	1140.079	1123.041	1118.309	1121.621	1116.889
5.0	1139.132	1122.095	1116.889	1120.202	1115.469
5.5	1137.712	1120.675	1115.469	1118.782	1114.049
6.0	1136.292	1118.782	1114.049	1117.362	1112.156
6.5	1134.399	1117.362	1112.156	1115.469	1110.737
7.0	1132.980	1115.469	1110.737	1113.576	1108.844
7.5	1131.560	1113.576	1108.844	1111.683	1107.424
8.0	1129.194	1111.683	1106.477	1109.790	1105.531
8.5	1127.301	1109.317	1104.111	1107.424	1103.164
9.0	1124.934	1107.424	1102.218	1105.057	1100.798
9.5	1122.568	1105.057	1099.378	1102.218	1098.432
10.0	1120.202	1102.691	1097.012	1099.852	1095.592
10.5	1117.362	1099.852	1094.173	1097.012	1093.226
11.0	1114.996	1097.012	1091.333	1094.173	1089.913
11.5	1111.683	1094.173	1088.493	1091.333	1087.074
12.0	1108.844	1091.333	1085.654	1088.020	1083.761
12.5	1106.004	1088.020	1082.341	1084.707	1080.448
13.0	1102.691	1085.181	1079.028	1081.395	1077.135
13.5	1099.378	1081.395	1075.715	1077.608	1073.822
14.0	1096.066	1078.082	1071.929	1074.296	1070.510
14.5	1092.753	1074.769	1068.143	1070.510	1066.724
15.0	1089.440	1070.983	1064.357	1066.724	1062.937
15.5	1085.181	1067.670	1060.571	1062.464	1058.678
16.0	1080.448	1063.884	1056.312	1058.678	1054.892
16.5	1075.715	1059.625	1052.053	1054.419	1050.633
17.0	1071.456	1055.365	1047.793	1050.160	1046.373
17.5	1066.724	1050.633	1043.061	1045.427	1041.641
18.0	1061.991	1045.900	1038.328	1040.694	1036.908
18.5	1057.258	1041.168	1033.595	1035.489	1032.176
19.0	1052.526	1036.435	1029.336	1030.756	1026.497
19.5	1047.320	1031.702	1024.604	1025.077	1020.818
20.0	1042.587	1026.497	1020.344	1019.871	1015.138
20.5	1037.382	1021.764	1015.612	1014.192	1009.459
21.0	1032.176	1016.558	1010.406	1008.513	1003.307
21.5	1026.497	1011.352	1004.727	1002.834	997.155
22.0	1021.291	1005.673	998.574	996.681	991.476
22.5	1015.612	999.994	992.895	990.529	985.323
23.0	1009.933	994.315	987.216	983.903	979.171
23.5	1004.253	988.636	981.064	977.751	973.492
24.0	998.101	982.957	975.385	971.599	967.339
24.5	991.949	976.805	969.232	965.446	961.187
25.0	986.270	970.652	963.080	959.294	955.035
25.5	980.117	964.500	956.454	953.142	948.409
26.0	973.492	957.874	950.302	946.989	942.257
26.5	967.339	951.722	943.676	940.837	936.104

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27.0	960.714	945.096	937.051	934.685	929.479
27.5	954.088	938.471	930.899	928.532	923.326
28.0	947.463	931.372	923.800	921.907	916.701
28.5	940.364	924.273	917.174	915.754	910.075
29.0	933.265	917.647	910.548	909.129	903.450
29.5	926.639	910.548	903.923	902.030	897.297
30.0	919.540	903.450	897.297	895.404	890.672
30.5	912.441	896.351	890.198	888.779	884.046
31.0	904.869	889.725	883.099	881.680	877.420
31.5	897.770	882.626	876.001	874.581	870.321
32.0	890.198	875.054	868.902	867.009	863.223
32.5	882.626	867.955	861.803	859.910	855.650
33.0	875.054	860.856	854.704	852.811	848.078
33.5	867.955	853.284	847.132	845.239	840.979
34.0	859.910	845.712	840.033	837.667	833.407
34.5	852.338	838.140	831.988	830.095	825.362
35.0	844.766	831.041	824.415	822.522	817.317
35.5	836.720	822.996	816.843	814.950	809.271
36.0	828.675	815.424	809.271	806.905	801.699
36.5	821.103	807.851	801.699	799.333	794.127
37.0	813.057	799.806	793.654	791.287	786.082
37.5	805.012	791.761	786.082	783.242	778.509
38.0	796.493	783.715	778.036	775.197	770.464
38.5	788.448	775.670	769.991	767.624	762.419
39.0	780.876	767.624	761.945	759.579	754.847
39.5	772.357	759.579	754.373	751.534	746.328
40.0	764.312	751.060	746.328	743.488	738.756
40.5	755.793	743.015	738.282	735.443	730.710
41.0	747.748	734.496	730.237	726.924	722.192
41.5	739.229	726.451	721.718	718.879	713.673
42.0	731.184	717.932	713.673	710.834	705.628
42.5	723.138	709.887	705.628	702.315	697.582
43.0	714.620	701.842	697.582	694.269	689.064
43.5	706.574	693.323	689.064	686.224	681.018
44.0	698.056	684.804	680.545	677.705	672.973
44.5	689.537	676.286	672.026	669.187	664.454
45.0	681.018	668.240	663.981	660.668	656.409
45.5	672.973	659.722	655.462	652.623	648.363
46.0	664.454	651.203	646.944	644.104	640.318
46.5	655.936	642.684	638.898	636.059	632.273
47.0	647.417	634.166	630.380	627.540	623.754
47.5	638.425	625.647	621.861	619.021	615.709
48.0	629.906	617.128	613.342	610.976	607.190
48.5	621.388	608.610	605.297	602.457	598.671
49.0	612.396	600.091	596.778	593.939	590.626
49.5	603.877	591.573	588.260	585.893	582.581
50.0	594.885	583.054	579.741	577.375	574.062
50.5	585.893	574.535	571.222	568.856	566.017
51.0	576.902	566.017	562.704	560.337	557.498
51.5	568.383	557.498	554.185	552.292	548.979
52.0	559.864	548.979	545.666	543.773	540.934
52.5	550.872	540.461	537.148	535.728	532.415
53.0	542.354	531.942	528.629	527.209	523.897
53.5	533.362	523.423	520.111	518.691	515.378
54.0	524.843	514.905	512.065	510.645	506.859
54.5	516.324	506.859	503.547	502.127	498.341

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55.0	507.806	498.814	495.501	494.081	490.295
55.5	499.760	490.295	486.982	485.563	482.250
56.0	490.769	481.777	478.464	477.517	473.731
56.5	482.250	473.731	470.182	469.141	465.402
57.0	474.205	465.213	461.805	460.669	457.120
57.5	465.875	456.978	453.476	452.435	448.743
58.0	457.546	448.838	445.099	444.153	440.461
58.5	449.169	440.651	436.864	436.013	432.511
59.0	440.934	432.416	428.582	427.778	424.418
59.5	432.936	424.086	420.158	419.591	416.420
60.0	424.749	415.805	411.829	411.356	408.280
60.5	416.656	407.712	403.784	403.074	400.045
61.0	408.706	399.619	395.786	394.981	392.000
61.5	400.187	391.621	387.835	386.936	384.049
62.0	391.810	383.386	379.600	378.938	375.909
62.5	383.244	375.767	371.839	371.318	368.195
63.0	375.010	369.047	365.876	365.639	363.084
63.5	366.680	361.711	359.203	358.682	356.032
64.0	361.664	354.565	352.293	351.252	348.223
64.5	353.855	346.945	344.485	343.538	340.698
65.0	345.100	338.805	336.770	335.871	333.126
65.5	336.155	330.571	328.725	328.299	325.507
66.0	327.542	322.525	320.869	320.680	317.698
66.5	319.023	314.291	312.871	312.871	310.221
67.0	310.599	306.103	304.967	305.109	302.696
67.5	302.317	298.058	297.017	297.301	294.934
68.0	293.941	290.012	289.066	289.445	286.984
68.5	285.517	281.825	281.068	281.589	279.175
69.0	276.809	273.590	273.023	273.307	271.082
69.5	268.337	265.498	264.835	265.166	263.131
70.0	259.961	257.310	256.837	256.979	255.181
70.5	251.726	249.076	248.744	248.886	247.183
71.0	243.302	240.888	240.794	240.983	239.137
71.5	234.878	232.701	232.890	233.032	231.423
72.0	226.691	224.466	224.845	225.034	223.662
72.5	218.503	216.374	216.989	217.178	216.042
73.0	210.411	208.470	209.322	209.559	208.565
73.5	202.554	200.661	201.655	202.081	200.993
74.0	194.793	192.853	194.083	194.414	193.705
74.5	187.032	185.186	186.558	186.890	186.369
75.0	179.223	177.566	179.128	179.459	179.034
75.5	171.509	169.947	171.745	172.171	171.698
76.0	163.700	162.611	164.457	164.930	164.552
76.5	156.317	155.371	157.216	157.737	157.406
77.0	149.124	148.082	150.117	150.591	150.070
77.5	141.693	140.984	143.019	143.397	142.877
78.0	134.453	133.885	135.920	136.488	135.967
78.5	127.259	126.975	128.915	129.578	129.152
79.0	120.350	120.066	122.053	122.858	122.527
79.5	113.440	113.298	115.286	116.137	115.854
80.0	106.625	106.672	108.518	109.701	109.323
80.5	99.763	100.189	102.082	103.218	102.934
81.0	93.185	93.847	95.693	96.876	96.687
81.5	86.843	87.553	89.446	90.629	90.487
82.0	80.927	81.400	83.341	84.571	84.429
82.5	75.011	75.437	77.330	78.561	78.466

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83.0	69.096	69.758	71.415	72.692	72.787
83.5	63.275	64.079	65.688	66.919	67.203
84.0	57.832	58.495	60.009	61.192	61.618
84.5	52.295	53.005	54.425	55.608	56.034
85.0	47.137	47.704	49.030	50.071	50.449
85.5	42.120	42.404	43.540	44.628	45.007
86.0	37.198	37.293	38.287	39.280	39.754
86.5	32.324	32.324	33.223	34.122	34.548
87.0	27.402	27.402	28.064	29.200	29.531
87.5	22.527	22.574	23.190	24.325	24.751
88.0	17.889	17.842	18.457	19.688	20.161
88.5	13.441	13.157	13.961	15.050	15.712
89.0	8.708	8.566	9.654	10.696	11.405
89.5	4.023	4.780	5.774	6.578	6.815
90.0	0.000	0.000	0.000	0.000	0.000
90.5	2.921	1.539	1.421	1.382	1.500
91.0	6.434	3.395	2.763	2.724	2.684
91.5	10.342	6.908	4.105	4.066	4.026
92.0	14.290	11.487	5.921	5.290	5.290
92.5	18.395	16.224	9.158	6.632	6.513
93.0	22.658	20.763	12.947	8.803	7.934
93.5	26.961	25.105	17.013	11.882	10.342
94.0	31.184	29.369	21.513	15.553	13.619
94.5	35.527	33.632	26.211	19.342	17.171
95.0	39.790	38.013	30.829	23.211	20.684
95.5	44.053	42.119	35.329	27.198	24.395
96.0	48.119	46.303	39.750	31.342	28.184
96.5	52.224	50.487	44.171	35.566	32.092
97.0	56.211	54.593	48.553	39.790	36.237
97.5	60.316	58.737	52.974	44.092	40.382
98.0	64.382	62.803	57.277	48.356	44.566
98.5	68.448	66.908	61.422	52.698	48.750
99.0	72.593	71.132	65.645	56.843	52.974
99.5	76.777	75.316	69.908	60.987	57.119
100.0	80.882	79.540	74.172	65.251	61.185
100.5	85.145	83.764	78.435	69.672	65.290
101.0	89.527	87.988	82.777	74.132	69.751
101.5	93.988	92.290	87.198	78.593	74.369
102.0	98.330	96.751	91.619	83.053	78.948
102.5	102.869	101.172	96.198	87.514	83.488
103.0	107.527	105.751	100.738	91.935	88.106
103.5	112.185	110.409	105.553	96.672	92.685
104.0	116.961	115.106	110.448	101.567	97.461
104.5	121.896	120.001	115.343	106.580	102.238
105.0	126.948	125.014	120.198	111.514	107.093
105.5	132.119	130.106	125.212	116.488	111.909
106.0	137.370	135.238	130.304	121.540	116.725
106.5	142.659	140.527	135.633	126.633	121.580
107.0	148.304	146.054	141.317	132.041	126.869
107.5	154.146	151.738	147.080	137.764	132.593
108.0	159.949	157.580	152.962	143.962	138.475
108.5	166.067	163.541	158.843	150.159	144.554
109.0	172.343	169.620	164.883	156.435	150.712
109.5	178.778	175.936	171.238	162.672	156.949
110.0	185.646	182.409	177.751	169.067	163.462
110.5	192.673	189.041	184.423	175.936	170.212

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111.0	199.778	195.988	191.330	183.080	177.001
111.5	207.041	203.133	198.357	190.344	183.988
112.0	214.581	210.475	205.344	197.607	190.659
112.5	222.160	218.015	212.410	204.831	197.725
113.0	230.094	225.791	219.870	212.291	205.107
113.5	238.265	233.923	227.765	220.344	213.041
114.0	246.555	242.212	236.133	228.910	221.844
114.5	255.120	250.778	244.660	237.831	231.199
115.0	263.805	259.581	253.502	246.831	240.673
115.5	272.884	268.463	262.581	255.792	250.028
116.0	282.042	277.700	271.976	265.226	259.542
116.5	291.713	287.173	281.686	274.897	269.686
117.0	301.779	296.844	291.476	285.318	280.147
117.5	309.200	304.384	300.437	294.910	290.765
118.0	318.674	313.187	309.634	304.818	300.200
118.5	329.687	323.687	319.029	314.016	308.687
119.0	340.463	334.029	329.687	324.437	318.121
119.5	351.358	345.042	340.976	335.016	328.700
120.0	362.608	356.450	352.305	346.582	339.871
120.5	373.779	368.016	363.990	358.858	351.792
121.0	385.503	379.819	375.753	371.095	364.463
121.5	397.108	391.503	387.477	383.490	376.858
122.0	409.345	403.424	399.872	395.924	389.293
122.5	421.188	415.266	412.109	408.161	401.056
123.0	433.425	427.898	424.740	421.582	414.082
123.5	446.056	440.530	438.161	435.003	427.503
124.0	458.688	453.556	451.188	448.425	441.319
124.5	471.320	466.188	464.214	461.451	454.740
125.0	483.951	478.820	476.846	474.477	467.767
125.5	496.978	491.846	489.872	487.504	480.399
126.0	509.609	504.478	503.294	500.530	493.030
126.5	522.241	517.109	516.715	514.346	506.451
127.0	535.267	530.136	530.136	528.162	520.662
127.5	548.294	542.768	542.768	541.583	534.873
128.0	560.926	555.399	555.794	555.004	548.294
128.5	573.557	567.636	568.426	568.426	561.320
129.0	586.189	579.873	581.057	581.452	574.741
129.5	598.821	592.505	594.084	594.873	588.557
130.0	611.452	605.136	607.110	608.294	603.163
130.5	624.084	617.373	620.531	621.321	616.979
131.0	636.716	629.610	633.163	633.952	629.610
131.5	648.558	641.453	645.795	645.795	641.847
132.0	660.795	653.295	658.032	658.426	653.689
132.5	672.637	665.532	670.269	670.663	665.532
133.0	684.479	677.769	682.111	682.900	676.979
133.5	696.321	689.611	694.348	695.137	689.216
134.0	708.164	701.058	705.795	706.979	701.058
134.5	718.822	712.506	716.848	717.637	712.506
135.0	729.480	723.558	727.506	728.295	722.769
135.5	739.743	735.006	738.164	738.559	733.032
136.0	750.006	745.664	748.032	749.217	743.690
136.5	760.664	755.927	757.901	759.875	754.743
137.0	770.532	766.190	768.164	769.743	765.006
137.5	780.401	775.664	777.638	778.822	774.085
138.0	789.875	785.138	786.717	787.506	782.769
138.5	799.349	794.217	795.796	796.191	791.059

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-940U-L8-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	808.428	803.296	804.875	804.875	799.349
139.5	817.507	812.375	813.559	813.164	807.243
140.0	826.191	820.664	822.243	821.849	815.928
140.5	834.480	828.559	830.138	829.743	823.428
141.0	842.770	836.849	838.033	837.244	830.928
141.5	850.270	844.349	845.928	844.744	837.638
142.0	858.165	852.244	853.428	851.849	844.744
142.5	865.665	859.744	860.928	859.349	851.454
143.0	873.165	866.849	868.033	866.454	858.560
143.5	880.270	874.349	875.139	873.560	865.270
144.0	886.981	881.454	881.849	879.875	871.586
144.5	893.691	888.165	888.560	886.191	877.902
145.0	900.007	894.876	894.876	892.112	883.823
145.5	906.718	901.586	901.191	898.823	890.139
146.0	913.034	907.902	907.507	904.744	896.455
146.5	919.349	914.218	913.428	911.060	902.770
147.0	925.271	920.534	918.955	917.376	909.086
147.5	931.192	926.455	924.876	923.297	915.007
148.0	937.113	932.376	930.007	928.823	921.323
148.5	943.034	938.297	935.139	934.350	927.639
149.0	948.560	944.218	940.271	939.876	933.955
149.5	954.087	949.744	945.008	945.402	939.876
150.0	959.613	955.271	950.139	950.534	945.402
150.5	965.139	960.797	954.876	955.271	950.929
151.0	970.271	965.929	959.613	960.008	956.060
151.5	975.797	971.060	964.745	964.745	960.797
152.0	980.929	976.192	969.481	969.087	965.534
152.5	986.061	980.929	974.218	973.824	969.876
153.0	991.192	985.666	978.955	978.560	973.824
153.5	995.929	990.403	983.692	983.297	977.376
154.0	1000.666	995.140	988.824	988.034	981.324
154.5	1005.798	999.482	993.561	992.376	985.271
155.0	1010.534	1003.824	998.297	997.113	989.613
155.5	1014.877	1007.771	1003.034	1001.850	993.955
156.0	1019.219	1012.113	1008.166	1006.192	998.297
156.5	1023.561	1016.456	1012.903	1010.929	1002.640
157.0	1027.903	1020.798	1017.640	1015.666	1006.982
157.5	1031.850	1024.745	1021.982	1020.008	1011.324
158.0	1035.798	1028.692	1026.324	1024.350	1015.666
158.5	1040.140	1033.035	1030.666	1028.692	1020.403
159.0	1043.693	1036.982	1034.614	1033.035	1024.745
159.5	1047.640	1040.929	1038.561	1037.377	1029.087
160.0	1051.193	1044.482	1042.508	1041.324	1033.429
160.5	1054.745	1048.035	1046.061	1045.272	1037.771
161.0	1058.298	1051.587	1049.614	1049.219	1042.114
161.5	1061.851	1055.535	1052.772	1053.166	1046.456
162.0	1065.798	1059.087	1055.930	1057.114	1050.403
162.5	1069.351	1062.640	1059.087	1060.666	1053.956
163.0	1072.903	1066.193	1062.245	1064.219	1057.508
163.5	1076.456	1069.351	1065.403	1067.772	1060.666
164.0	1080.009	1072.509	1068.166	1070.930	1063.824
164.5	1082.772	1075.667	1070.930	1074.088	1066.982
165.0	1085.930	1078.824	1073.693	1077.245	1069.745
165.5	1089.088	1081.588	1076.456	1080.009	1072.509
166.0	1092.246	1084.351	1079.219	1082.772	1074.877
166.5	1095.404	1087.114	1081.982	1085.140	1077.640

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-940U-L8-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1098.167	1089.482	1084.351	1087.509	1080.009
167.5	1100.930	1091.851	1087.114	1089.877	1082.772
168.0	1103.693	1094.219	1089.482	1092.246	1085.140
168.5	1106.456	1096.588	1091.851	1094.614	1087.903
169.0	1108.825	1098.561	1094.219	1096.588	1090.272
169.5	1110.798	1100.535	1096.193	1098.561	1092.640
170.0	1112.772	1102.509	1098.167	1100.535	1095.404
170.5	1114.746	1104.483	1099.746	1102.509	1097.377
171.0	1116.719	1106.061	1101.325	1104.483	1099.351
171.5	1118.298	1107.640	1102.904	1106.456	1101.325
172.0	1119.877	1109.219	1104.088	1108.035	1102.904
172.5	1121.456	1110.798	1105.272	1109.219	1104.088
173.0	1123.035	1112.377	1106.456	1110.798	1104.877
173.5	1124.220	1113.562	1107.640	1111.588	1105.667
174.0	1125.404	1114.746	1108.825	1112.377	1106.061
174.5	1126.193	1115.535	1109.614	1113.167	1106.456
175.0	1126.983	1116.719	1110.404	1113.562	1106.456
175.5	1127.772	1117.509	1111.588	1113.956	1106.851
176.0	1128.562	1118.298	1112.377	1113.956	1106.851
176.5	1128.956	1119.088	1112.772	1114.351	1106.851
177.0	1129.351	1119.877	1113.562	1114.351	1106.456
177.5	1130.141	1120.667	1114.351	1114.351	1106.456
178.0	1130.535	1120.667	1114.746	1114.351	1106.851
178.5	1130.535	1121.062	1115.141	1114.351	1106.851
179.0	1130.930	1121.456	1115.141	1114.351	1106.851
179.5	1131.325	1121.456	1115.535	1114.351	1106.851
180.0	1117.509	1117.509	1117.509	1117.509	1117.509

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-940U-L8-940D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	407.76	N.A.	7.10
0-30	852.48	N.A.	14.90
0-40	1369.52	N.A.	23.90
0-60	2327.12	N.A.	40.60
0-80	2849.81	N.A.	49.70
0-90	2905.04	N.A.	50.70
10-90	2798.61	N.A.	48.80
20-40	961.76	N.A.	16.80
20-50	1475.03	N.A.	25.70
40-70	1290.4	N.A.	22.50
60-80	522.70	N.A.	9.10
70-80	189.90	N.A.	3.30
80-90	55.23	N.A.	1.00
90-110	161.72	N.A.	2.80
90-120	415.16	N.A.	7.20
90-130	841.04	N.A.	14.70
90-150	1956.2	N.A.	34.10
90-180	2827.22	N.A.	49.30
110-180	2665.5	N.A.	46.50
0-180	5732.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.43
10-20	301.32
20-30	444.72
30-40	517.04
40-50	513.27
50-60	444.33
60-70	332.80
70-80	189.90
80-90	55.23
90-100	34.88
100-110	126.84
110-120	253.43
120-130	425.88
130-140	556.88
140-150	558.27
150-160	461.16
160-170	303.89
170-180	105.98

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-940U-L8-940D-F-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	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 : MX4WUDC-4-00-L8-940U-L8-940D-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	15.0	15.9	16.0	16.9	18.1	14.9	15.8	15.9	16.8	18.0
	3H	16.8	17.6	17.7	18.5	19.8	16.7	17.5	17.6	18.4	19.7
	4H	17.4	18.1	18.4	19.1	20.4	17.3	18.1	18.3	19.0	20.3
	6H	17.8	18.5	18.8	19.5	20.8	17.8	18.5	18.8	19.4	20.7
	8H	18.0	18.6	18.9	19.6	20.9	17.9	18.6	18.9	19.6	20.9
	12H	18.0	18.7	19.0	19.6	21.0	18.0	18.6	19.0	19.6	21.0

UGR Viewed Endwise

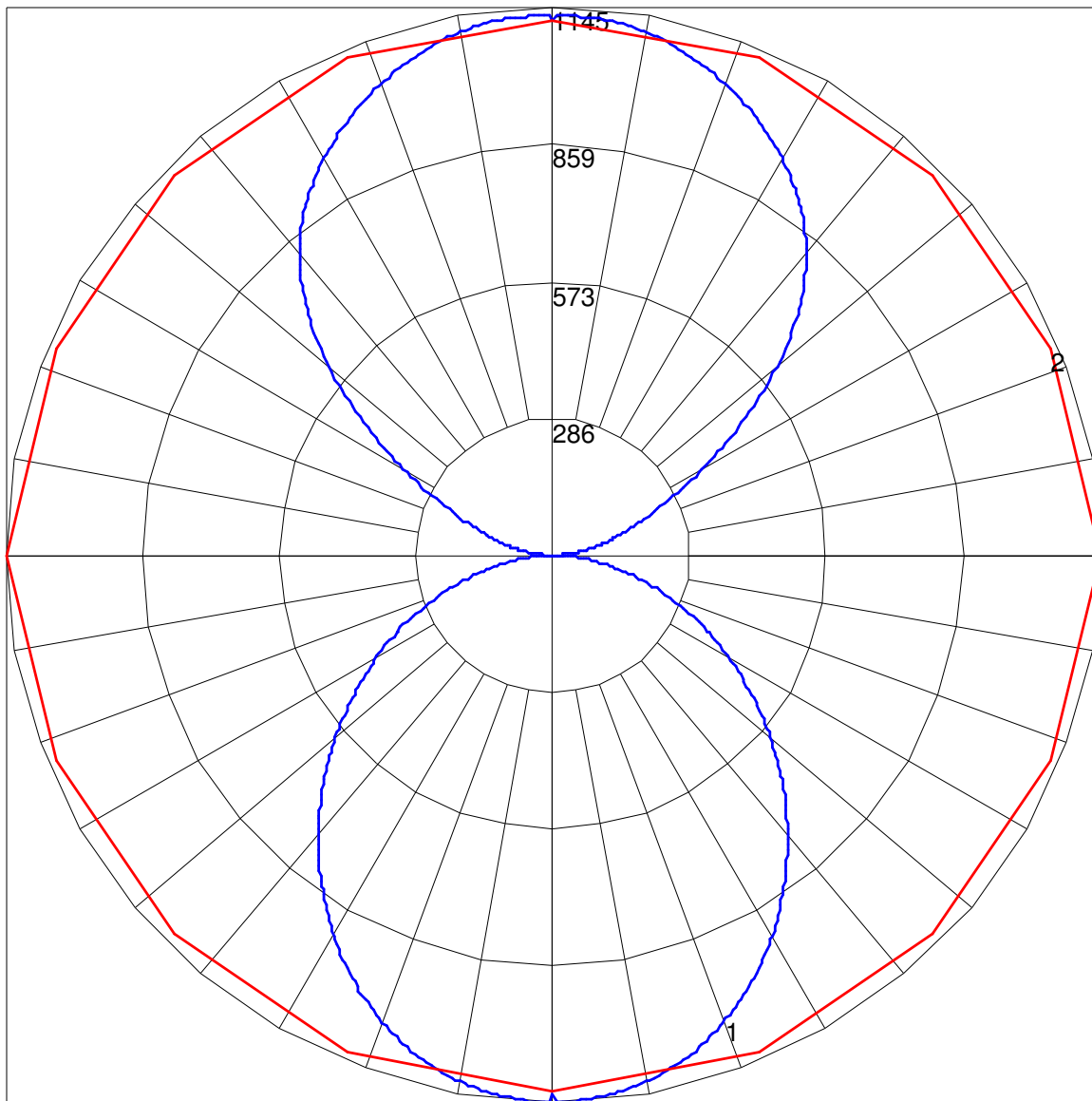
4H	2H	15.5	16.3	16.5	17.3	18.6	15.5	16.2	16.4	17.2	18.5
	3H	17.5	18.1	18.5	19.1	20.4	17.4	18.1	18.4	19.1	20.4
	4H	18.3	18.8	19.2	19.8	21.1	18.2	18.8	19.2	19.8	21.1
	6H	18.8	19.3	19.8	20.3	21.6	18.8	19.3	19.8	20.3	21.6
	8H	19.0	19.4	20.0	20.5	21.8	19.0	19.4	20.0	20.5	21.8
	12H	19.1	19.5	20.1	20.5	21.9	19.1	19.5	20.2	20.6	21.9

8H	4H	18.5	19.0	19.5	20.0	21.3	18.5	18.9	19.5	19.9	21.3
	6H	19.2	19.6	20.2	20.6	22.0	19.2	19.6	20.2	20.6	21.9
	8H	19.5	19.8	20.5	20.8	22.2	19.5	19.8	20.5	20.8	22.2
	12H	19.6	19.9	20.7	21.0	22.4	19.7	20.0	20.7	21.0	22.4

12H	4H	18.5	18.9	19.5	19.9	21.3	18.4	18.9	19.5	19.9	21.2
	6H	19.2	19.6	20.3	20.6	22.0	19.2	19.6	20.3	20.6	22.0
	8H	19.5	19.8	20.6	20.9	22.3	19.5	19.8	20.6	20.9	22.3

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1145.284 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.)