

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-950U-L8-950D-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-L8-950U-L8-950D-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	5932
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	8047	7846	7756
55	7397	7218	7142
65	6823	6658	6586
75	5786	5783	5779
85	4519	4700	4836

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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	1167.605	1167.605	1167.605	1167.605	1167.605
0.5	1185.236	1168.584	1162.707	1165.156	1161.238
1.0	1185.236	1168.094	1162.707	1165.156	1161.238
1.5	1184.746	1167.605	1162.217	1165.156	1160.748
2.0	1184.257	1167.115	1161.727	1164.666	1160.748
2.5	1183.767	1166.625	1160.748	1164.176	1160.258
3.0	1182.787	1165.645	1160.258	1163.686	1159.278
3.5	1181.808	1164.666	1159.278	1162.707	1158.299
4.0	1180.828	1163.686	1158.299	1161.727	1157.319
4.5	1179.849	1162.217	1157.319	1160.748	1155.850
5.0	1178.869	1161.238	1155.850	1159.278	1154.381
5.5	1177.400	1159.768	1154.381	1157.809	1152.911
6.0	1175.931	1157.809	1152.911	1156.340	1150.952
6.5	1173.971	1156.340	1150.952	1154.381	1149.483
7.0	1172.502	1154.381	1149.483	1152.422	1147.524
7.5	1171.033	1152.422	1147.524	1150.463	1146.055
8.0	1168.584	1150.463	1145.075	1148.504	1144.096
8.5	1166.625	1148.014	1142.626	1146.055	1141.647
9.0	1164.176	1146.055	1140.667	1143.606	1139.198
9.5	1161.727	1143.606	1137.729	1140.667	1136.749
10.0	1159.278	1141.157	1135.280	1138.218	1133.811
10.5	1156.340	1138.218	1132.341	1135.280	1131.362
11.0	1153.891	1135.280	1129.403	1132.341	1127.933
11.5	1150.463	1132.341	1126.464	1129.403	1124.995
12.0	1147.524	1129.403	1123.525	1125.974	1121.566
12.5	1144.585	1125.974	1120.097	1122.546	1118.138
13.0	1141.157	1123.036	1116.669	1119.118	1114.710
13.5	1137.729	1119.118	1113.240	1115.199	1111.281
14.0	1134.300	1115.689	1109.322	1111.771	1107.853
14.5	1130.872	1112.261	1105.404	1107.853	1103.935
15.0	1127.444	1108.343	1101.486	1103.935	1100.017
15.5	1123.036	1104.914	1097.568	1099.527	1095.609
16.0	1118.138	1100.996	1093.160	1095.609	1091.691
16.5	1113.240	1096.588	1088.752	1091.201	1087.283
17.0	1108.832	1092.180	1084.344	1086.793	1082.875
17.5	1103.935	1087.283	1079.446	1081.895	1077.977
18.0	1099.037	1082.385	1074.549	1076.998	1073.079
18.5	1094.139	1077.487	1069.651	1071.610	1068.182
19.0	1089.242	1072.590	1065.243	1066.713	1062.305
19.5	1083.854	1067.692	1060.346	1060.835	1056.427
20.0	1078.957	1062.305	1055.938	1055.448	1050.550
20.5	1073.569	1057.407	1051.040	1049.571	1044.673
21.0	1068.182	1052.019	1045.653	1043.693	1038.306
21.5	1062.305	1046.632	1039.775	1037.816	1031.939
22.0	1056.917	1040.755	1033.408	1031.449	1026.062
22.5	1051.040	1034.878	1027.531	1025.082	1019.695
23.0	1045.163	1029.000	1021.654	1018.226	1013.328
23.5	1039.286	1023.123	1015.287	1011.859	1007.451
24.0	1032.919	1017.246	1009.410	1005.492	1001.084
24.5	1026.552	1010.879	1003.043	999.125	994.717
25.0	1020.674	1004.512	996.676	992.758	988.350
25.5	1014.307	998.145	989.819	986.391	981.493
26.0	1007.451	991.288	983.452	980.024	975.126
26.5	1001.084	984.921	976.595	973.657	968.759

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27.0	994.227	978.065	969.739	967.290	961.902
27.5	987.370	971.208	963.372	960.923	955.535
28.0	980.514	963.861	956.025	954.066	948.679
28.5	973.167	956.515	949.168	947.699	941.822
29.0	965.821	949.658	942.312	940.842	934.965
29.5	958.964	942.312	935.455	933.496	928.598
30.0	951.617	934.965	928.598	926.639	921.741
30.5	944.271	927.619	921.252	919.782	914.885
31.0	936.434	920.762	913.905	912.436	908.028
31.5	929.088	913.415	906.559	905.089	900.681
32.0	921.252	905.579	899.212	897.253	893.335
32.5	913.415	898.233	891.866	889.907	885.499
33.0	905.579	890.886	884.519	882.560	877.662
33.5	898.233	883.050	876.683	874.724	870.316
34.0	889.907	875.214	869.336	866.888	862.480
34.5	882.070	867.377	861.010	859.051	854.154
35.0	874.234	860.031	853.174	851.215	845.828
35.5	865.908	851.705	845.338	843.379	837.502
36.0	857.582	843.869	837.502	835.053	829.665
36.5	849.746	836.032	829.665	827.216	821.829
37.0	841.420	827.706	821.339	818.890	813.503
37.5	833.094	819.380	813.503	810.564	805.667
38.0	824.278	811.054	805.177	802.238	797.341
38.5	815.952	802.728	796.851	794.402	789.015
39.0	808.116	794.402	788.525	786.076	781.178
39.5	799.300	786.076	780.689	777.750	772.363
40.0	790.974	777.260	772.363	769.424	764.526
40.5	782.158	768.934	764.037	761.098	756.200
41.0	773.832	760.118	755.710	752.282	747.384
41.5	765.016	751.792	746.895	743.956	738.569
42.0	756.690	742.977	738.569	735.630	730.243
42.5	748.364	734.650	730.243	726.814	721.917
43.0	739.548	726.324	721.917	718.488	713.101
43.5	731.222	717.509	713.101	710.162	704.775
44.0	722.406	708.693	704.285	701.346	696.449
44.5	713.591	699.877	695.469	692.531	687.633
45.0	704.775	691.551	687.143	683.715	679.307
45.5	696.449	682.735	678.327	675.389	670.981
46.0	687.633	673.919	669.511	666.573	662.655
46.5	678.817	665.104	661.185	658.247	654.329
47.0	670.001	656.288	652.370	649.431	645.513
47.5	660.696	647.472	643.554	640.615	637.187
48.0	651.880	638.656	634.738	632.289	628.371
48.5	643.064	629.840	626.412	623.473	619.555
49.0	633.758	621.025	617.596	614.658	611.229
49.5	624.943	612.209	608.780	606.332	602.903
50.0	615.637	603.393	599.965	597.516	594.087
50.5	606.332	594.577	591.149	588.700	585.761
51.0	597.026	585.761	582.333	579.884	576.946
51.5	588.210	576.946	573.517	571.558	568.130
52.0	579.394	568.130	564.701	562.742	559.804
52.5	570.089	559.314	555.886	554.416	550.988
53.0	561.273	550.498	547.070	545.600	542.172
53.5	551.967	541.682	538.254	536.785	533.356
54.0	543.152	532.866	529.928	528.459	524.540
54.5	534.336	524.540	521.112	519.643	515.725

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55.0	525.520	516.214	512.786	511.317	507.399
55.5	517.194	507.399	503.970	502.501	499.073
56.0	507.888	498.583	495.154	494.175	490.257
56.5	499.073	490.257	486.584	485.506	481.637
57.0	490.747	481.441	477.915	476.739	473.066
57.5	482.127	472.919	469.295	468.217	464.397
58.0	473.507	464.495	460.626	459.646	455.826
58.5	464.838	456.022	452.104	451.222	447.598
59.0	456.316	447.500	443.533	442.700	439.223
59.5	448.039	438.880	434.815	434.227	430.946
60.0	439.566	430.309	426.195	425.706	422.522
60.5	431.191	421.934	417.869	417.135	414.000
61.0	422.963	413.559	409.592	408.760	405.674
61.5	414.147	405.282	401.364	400.434	397.446
62.0	405.478	396.760	392.842	392.156	389.022
62.5	396.613	388.875	384.810	384.271	381.039
63.0	388.091	381.920	378.639	378.394	375.749
63.5	379.471	374.329	371.733	371.194	368.452
64.0	374.280	366.933	364.583	363.505	360.371
64.5	366.199	359.048	356.501	355.522	352.583
65.0	357.138	350.624	348.518	347.588	344.747
65.5	347.882	342.102	340.192	339.751	336.862
66.0	338.968	333.776	332.062	331.866	328.781
66.5	330.152	325.254	323.785	323.785	321.042
67.0	321.434	316.781	315.606	315.753	313.255
67.5	312.863	308.455	307.378	307.672	305.223
68.0	304.194	300.129	299.150	299.542	296.995
68.5	295.476	291.656	290.873	291.411	288.914
69.0	286.465	283.134	282.547	282.840	280.538
69.5	277.698	274.759	274.074	274.416	272.310
70.0	269.029	266.286	265.797	265.943	264.082
70.5	260.507	257.764	257.422	257.568	255.805
71.0	251.789	249.291	249.193	249.389	247.479
71.5	243.071	240.818	241.014	241.161	239.496
72.0	234.598	232.296	232.688	232.884	231.464
72.5	226.125	223.922	224.558	224.754	223.579
73.0	217.750	215.742	216.624	216.869	215.840
73.5	209.620	207.661	208.690	209.131	208.004
74.0	201.588	199.580	200.853	201.196	200.462
74.5	193.556	191.646	193.066	193.409	192.870
75.0	185.475	183.761	185.377	185.720	185.279
75.5	177.492	175.875	177.736	178.177	177.687
76.0	169.410	168.284	170.194	170.684	170.292
76.5	161.770	160.791	162.701	163.239	162.897
77.0	154.326	153.248	155.354	155.844	155.305
77.5	146.636	145.902	148.008	148.399	147.861
78.0	139.143	138.555	140.661	141.249	140.710
78.5	131.698	131.404	133.413	134.098	133.657
79.0	124.548	124.254	126.311	127.144	126.801
79.5	117.397	117.250	119.307	120.189	119.895
80.0	110.345	110.393	112.304	113.528	113.136
80.5	103.243	103.684	105.643	106.818	106.524
81.0	96.435	97.121	99.031	100.255	100.059
81.5	89.872	90.607	92.566	93.790	93.643
82.0	83.750	84.240	86.248	87.521	87.374
82.5	77.628	78.069	80.028	81.301	81.203

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83.0	71.506	72.192	73.906	75.228	75.326
83.5	65.482	66.314	67.980	69.253	69.547
84.0	59.850	60.535	62.102	63.327	63.768
84.5	54.119	54.854	56.323	57.548	57.988
85.0	48.781	49.368	50.740	51.817	52.209
85.5	43.589	43.883	45.059	46.185	46.577
86.0	38.496	38.594	39.622	40.651	41.140
86.5	33.451	33.451	34.382	35.312	35.753
87.0	28.358	28.358	29.043	30.219	30.561
87.5	23.313	23.362	23.999	25.174	25.615
88.0	18.513	18.464	19.101	20.374	20.864
88.5	13.909	13.615	14.448	15.575	16.260
89.0	9.012	8.865	9.991	11.069	11.803
89.5	4.163	4.947	5.975	6.808	7.053
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.023	1.593	1.471	1.430	1.552
91.0	6.659	3.513	2.860	2.819	2.778
91.5	10.703	7.149	4.249	4.208	4.167
92.0	14.788	11.888	6.128	5.474	5.474
92.5	19.037	16.790	9.477	6.863	6.740
93.0	23.448	21.488	13.399	9.110	8.211
93.5	27.901	25.981	17.607	12.296	10.703
94.0	32.272	30.393	22.264	16.095	14.094
94.5	36.766	34.805	27.125	20.017	17.770
95.0	41.178	39.340	31.905	24.020	21.406
95.5	45.590	43.588	36.562	28.146	25.246
96.0	49.797	47.918	41.137	32.436	29.168
96.5	54.046	52.248	45.712	36.807	33.212
97.0	58.172	56.497	50.247	41.178	37.501
97.5	62.420	60.786	54.822	45.631	41.791
98.0	66.628	64.994	59.275	50.042	46.121
98.5	70.836	69.242	63.564	54.536	50.451
99.0	75.125	73.614	67.935	58.825	54.822
99.5	79.455	77.944	72.347	63.115	59.111
100.0	83.704	82.315	76.759	67.527	63.319
100.5	88.116	86.686	81.171	72.102	67.568
101.0	92.650	91.057	85.665	76.718	72.184
101.5	97.266	95.510	90.240	81.334	76.963
102.0	101.760	100.126	94.815	85.951	81.702
102.5	106.458	104.701	99.554	90.567	86.400
103.0	111.278	109.440	104.252	95.142	91.179
103.5	116.099	114.260	109.236	100.044	95.918
104.0	121.042	119.122	114.301	105.110	100.861
104.5	126.148	124.187	119.367	110.298	105.804
105.0	131.377	129.375	124.391	115.404	110.829
105.5	136.728	134.645	129.579	120.551	115.813
106.0	142.161	139.956	134.849	125.780	120.796
106.5	147.636	145.430	140.364	131.050	125.821
107.0	153.477	151.149	146.247	136.647	131.295
107.5	159.523	157.031	152.211	142.570	137.219
108.0	165.528	163.077	158.298	148.984	143.305
108.5	171.860	169.246	164.384	155.397	149.596
109.0	178.355	175.537	170.635	161.893	155.969
109.5	185.014	182.073	177.212	168.347	162.424
110.0	192.122	188.772	183.952	174.965	169.164
110.5	199.394	195.635	190.856	182.073	176.150

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111.0	206.747	202.825	198.005	189.467	183.176
111.5	214.263	210.219	205.276	196.984	190.407
112.0	222.066	217.818	212.507	204.500	197.310
112.5	229.909	225.620	219.819	211.976	204.623
113.0	238.120	233.668	227.540	219.697	212.262
113.5	246.577	242.083	235.710	228.030	220.473
114.0	255.155	250.662	244.371	236.895	229.583
114.5	264.020	259.526	253.194	246.127	239.264
115.0	273.007	268.636	262.345	255.441	249.069
115.5	282.403	277.828	271.741	264.714	258.750
116.0	291.880	287.387	281.463	274.478	268.595
116.5	301.889	297.191	291.513	284.486	279.094
117.0	312.306	307.200	301.644	295.271	289.920
117.5	319.986	315.002	310.917	305.198	300.908
118.0	329.790	324.112	320.435	315.451	310.672
118.5	341.188	334.978	330.158	324.970	319.455
119.0	352.340	345.681	341.188	335.754	329.218
119.5	363.615	357.079	352.871	346.702	340.166
120.0	375.257	368.885	364.595	358.672	351.727
120.5	386.818	380.854	376.687	371.376	364.064
121.0	398.951	393.068	388.861	384.040	377.177
121.5	410.961	405.160	400.993	396.867	390.004
122.0	423.625	417.497	413.821	409.736	402.873
122.5	435.880	429.753	426.484	422.399	415.046
123.0	448.544	442.825	439.557	436.289	428.527
123.5	461.616	455.897	453.446	450.178	442.416
124.0	474.689	469.378	466.927	464.067	456.714
124.5	487.761	482.450	480.408	477.548	470.604
125.0	500.833	495.523	493.480	491.029	484.084
125.5	514.314	509.003	506.961	504.510	497.157
126.0	527.386	522.076	520.850	517.991	510.229
126.5	540.459	535.148	534.740	532.289	524.118
127.0	553.940	548.629	548.629	546.586	538.825
127.5	567.420	561.701	561.701	560.476	553.531
128.0	580.493	574.774	575.182	574.365	567.420
128.5	593.565	587.437	588.254	588.254	580.901
129.0	606.637	600.101	601.327	601.735	594.791
129.5	619.710	613.174	614.808	615.625	609.088
130.0	632.782	626.246	628.288	629.514	624.203
130.5	645.854	638.910	642.178	642.995	638.501
131.0	658.927	651.573	655.250	656.067	651.573
131.5	671.182	663.829	668.322	668.322	664.237
132.0	683.846	676.084	680.986	681.395	676.493
132.5	696.101	688.748	693.650	694.058	688.748
133.0	708.356	701.412	705.905	706.722	700.595
133.5	720.612	713.667	718.569	719.386	713.258
134.0	732.867	725.514	730.416	731.641	725.514
134.5	743.897	737.361	741.854	742.671	737.361
135.0	754.926	748.799	752.884	753.701	747.982
135.5	765.548	760.646	763.914	764.322	758.603
136.0	776.169	771.675	774.126	775.352	769.633
136.5	787.199	782.297	784.339	786.382	781.071
137.0	797.412	792.918	794.960	796.594	791.692
137.5	807.624	802.722	804.765	805.990	801.088
138.0	817.428	812.526	814.160	814.977	810.075
138.5	827.233	821.922	823.556	823.965	818.654

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	836.628	831.318	832.952	832.952	827.233
139.5	846.024	840.714	841.939	841.531	835.403
140.0	855.011	849.292	850.926	850.518	844.390
140.5	863.590	857.462	859.097	858.688	852.152
141.0	872.169	866.041	867.267	866.450	859.914
141.5	879.931	873.803	875.437	874.211	866.858
142.0	888.101	881.973	883.199	881.565	874.211
142.5	895.862	889.735	890.960	889.326	881.156
143.0	903.624	897.088	898.313	896.679	888.509
143.5	910.977	904.850	905.667	904.033	895.454
144.0	917.922	912.203	912.611	910.569	901.990
144.5	924.867	919.147	919.556	917.105	908.526
145.0	931.403	926.092	926.092	923.233	914.654
145.5	938.347	933.037	932.628	930.177	921.190
146.0	944.884	939.573	939.164	936.305	927.726
146.5	951.420	946.109	945.292	942.841	934.262
147.0	957.547	952.645	951.011	949.377	940.799
147.5	963.675	958.773	957.139	955.505	946.926
148.0	969.803	964.901	962.450	961.224	953.462
148.5	975.930	971.028	967.760	966.943	959.998
149.0	981.650	977.156	973.071	972.662	966.535
149.5	987.369	982.875	977.973	978.381	972.662
150.0	993.088	988.594	983.284	983.692	978.381
150.5	998.807	994.313	988.186	988.594	984.101
151.0	1004.118	999.624	993.088	993.496	989.411
151.5	1009.837	1004.935	998.398	998.398	994.313
152.0	1015.147	1010.245	1003.301	1002.892	999.215
152.5	1020.458	1015.147	1008.203	1007.794	1003.709
153.0	1025.769	1020.049	1013.105	1012.696	1007.794
153.5	1030.671	1024.952	1018.007	1017.598	1011.471
154.0	1035.573	1029.854	1023.318	1022.501	1015.556
154.5	1040.883	1034.347	1028.220	1026.994	1019.641
155.0	1045.786	1038.841	1033.122	1031.896	1024.135
155.5	1050.279	1042.926	1038.024	1036.798	1028.628
156.0	1054.773	1047.420	1043.335	1041.292	1033.122
156.5	1059.266	1051.913	1048.237	1046.194	1037.615
157.0	1063.760	1056.407	1053.139	1051.096	1042.109
157.5	1067.845	1060.492	1057.632	1055.590	1046.603
158.0	1071.930	1064.577	1062.126	1060.083	1051.096
158.5	1076.424	1069.071	1066.620	1064.577	1055.998
159.0	1080.100	1073.156	1070.705	1069.071	1060.492
159.5	1084.186	1077.241	1074.790	1073.564	1064.986
160.0	1087.862	1080.917	1078.875	1077.649	1069.479
160.5	1091.539	1084.594	1082.551	1081.734	1073.973
161.0	1095.215	1088.271	1086.228	1085.820	1078.466
161.5	1098.892	1092.356	1089.496	1089.905	1082.960
162.0	1102.977	1096.032	1092.764	1093.990	1087.045
162.5	1106.654	1099.709	1096.032	1097.666	1090.722
163.0	1110.330	1103.385	1099.300	1101.343	1094.398
163.5	1114.007	1106.654	1102.568	1105.020	1097.666
164.0	1117.683	1109.922	1105.428	1108.288	1100.934
164.5	1120.543	1113.190	1108.288	1111.556	1104.203
165.0	1123.811	1116.458	1111.147	1114.824	1107.062
165.5	1127.079	1119.317	1114.007	1117.683	1109.922
166.0	1130.347	1122.177	1116.866	1120.543	1112.373
166.5	1133.615	1125.037	1119.726	1122.994	1115.232

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-950U-L8-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1136.475	1127.488	1122.177	1125.445	1117.683
167.5	1139.334	1129.939	1125.037	1127.896	1120.543
168.0	1142.194	1132.390	1127.488	1130.347	1122.994
168.5	1145.054	1134.841	1129.939	1132.798	1125.854
169.0	1147.505	1136.883	1132.390	1134.841	1128.305
169.5	1149.547	1138.926	1134.432	1136.883	1130.756
170.0	1151.590	1140.968	1136.475	1138.926	1133.615
170.5	1153.632	1143.011	1138.109	1140.968	1135.658
171.0	1155.675	1144.645	1139.743	1143.011	1137.700
171.5	1157.309	1146.279	1141.377	1145.054	1139.743
172.0	1158.943	1147.913	1142.602	1146.688	1141.377
172.5	1160.577	1149.547	1143.828	1147.913	1142.602
173.0	1162.211	1151.181	1145.054	1149.547	1143.419
173.5	1163.436	1152.407	1146.279	1150.364	1144.236
174.0	1164.662	1153.632	1147.505	1151.181	1144.645
174.5	1165.479	1154.449	1148.322	1151.998	1145.054
175.0	1166.296	1155.675	1149.139	1152.407	1145.054
175.5	1167.113	1156.492	1150.364	1152.815	1145.462
176.0	1167.930	1157.309	1151.181	1152.815	1145.462
176.5	1168.339	1158.126	1151.590	1153.224	1145.462
177.0	1168.747	1158.943	1152.407	1153.224	1145.054
177.5	1169.564	1159.760	1153.224	1153.224	1145.054
178.0	1169.973	1159.760	1153.632	1153.224	1145.462
178.5	1169.973	1160.168	1154.041	1153.224	1145.462
179.0	1170.381	1160.577	1154.041	1153.224	1145.462
179.5	1170.790	1160.577	1154.449	1153.224	1145.462
180.0	1156.492	1156.492	1156.492	1156.492	1156.492

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-950U-L8-950D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.98	N.A.	7.10
0-30	882.21	N.A.	14.90
0-40	1417.29	N.A.	23.90
0-60	2408.29	N.A.	40.60
0-80	2949.23	N.A.	49.70
0-90	3006.38	N.A.	50.70
10-90	2896.24	N.A.	48.80
20-40	995.31	N.A.	16.80
20-50	1526.48	N.A.	25.70
40-70	1335.41	N.A.	22.50
60-80	540.93	N.A.	9.10
70-80	196.53	N.A.	3.30
80-90	57.16	N.A.	1.00
90-110	167.36	N.A.	2.80
90-120	429.64	N.A.	7.20
90-130	870.38	N.A.	14.70
90-150	2024.44	N.A.	34.10
90-180	2925.85	N.A.	49.30
110-180	2758.48	N.A.	46.50
0-180	5932.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.15
10-20	311.83
20-30	460.23
30-40	535.08
40-50	531.17
50-60	459.83
60-70	344.41
70-80	196.53
80-90	57.16
90-100	36.10
100-110	131.27
110-120	262.27
120-130	440.74
130-140	576.31
140-150	577.75
150-160	477.25
160-170	314.49
170-180	109.67

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-950U-L8-950D-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-L8-950U-L8-950D-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	15.1	16.0	16.1	17.0	18.2	15.0	15.9	16.0	16.9	18.1
	3H	16.9	17.7	17.8	18.6	19.9	16.8	17.6	17.7	18.5	19.8
	4H	17.5	18.2	18.5	19.2	20.5	17.4	18.2	18.4	19.1	20.4
	6H	17.9	18.6	18.9	19.6	20.9	17.9	18.6	18.9	19.5	20.8
	8H	18.1	18.7	19.0	19.7	21.0	18.0	18.7	19.0	19.7	21.0
	12H	18.1	18.8	19.1	19.7	21.1	18.1	18.7	19.1	19.7	21.1

UGR Viewed Endwise

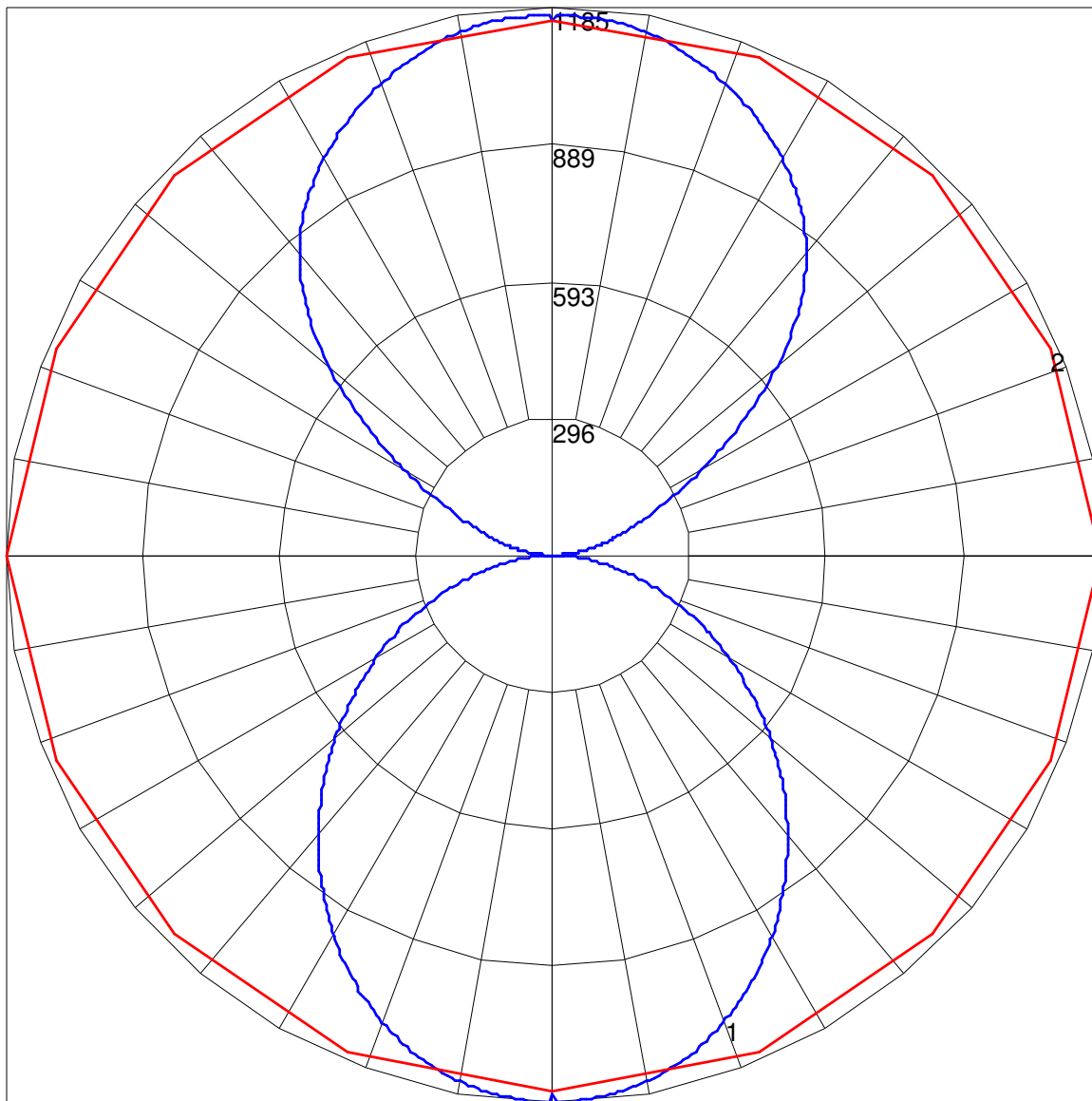
4H	2H	15.7	16.4	16.6	17.4	18.7	15.6	16.3	16.5	17.3	18.6
	3H	17.6	18.2	18.6	19.2	20.5	17.5	18.2	18.5	19.2	20.5
	4H	18.4	18.9	19.3	19.9	21.2	18.3	18.9	19.3	19.9	21.2
	6H	18.9	19.4	19.9	20.4	21.7	18.9	19.4	19.9	20.4	21.7
	8H	19.1	19.5	20.1	20.6	21.9	19.1	19.5	20.1	20.6	21.9
	12H	19.2	19.6	20.2	20.6	22.0	19.2	19.6	20.3	20.7	22.0

8H	4H	18.6	19.1	19.6	20.1	21.4	18.6	19.0	19.6	20.0	21.4
	6H	19.3	19.7	20.3	20.7	22.1	19.3	19.7	20.3	20.7	22.0
	8H	19.6	19.9	20.6	20.9	22.3	19.6	19.9	20.6	20.9	22.3
	12H	19.7	20.0	20.8	21.1	22.5	19.8	20.1	20.8	21.1	22.5

12H	4H	18.6	19.0	19.6	20.0	21.4	18.5	19.0	19.6	20.0	21.3
	6H	19.3	19.7	20.4	20.7	22.1	19.3	19.7	20.4	20.7	22.1
	8H	19.6	19.9	20.7	21.0	22.4	19.6	19.9	20.7	21.0	22.4

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1185.236 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.)