

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-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] MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

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

[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	7407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	67.7
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	10047	9796	9684
55	9236	9012	8918
65	8519	8313	8223
75	7224	7220	7216
85	5642	5869	6039

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-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	1457.885	1457.885	1457.885	1457.885	1457.885
0.5	1479.900	1459.108	1451.770	1454.828	1449.935
1.0	1479.900	1458.497	1451.770	1454.828	1449.935
1.5	1479.289	1457.885	1451.159	1454.828	1449.324
2.0	1478.677	1457.274	1450.547	1454.216	1449.324
2.5	1478.066	1456.662	1449.324	1453.605	1448.712
3.0	1476.843	1455.439	1448.712	1452.993	1447.489
3.5	1475.620	1454.216	1447.489	1451.770	1446.266
4.0	1474.397	1452.993	1446.266	1450.547	1445.043
4.5	1473.174	1451.159	1445.043	1449.324	1443.209
5.0	1471.951	1449.935	1443.209	1447.489	1441.374
5.5	1470.116	1448.101	1441.374	1445.655	1439.539
6.0	1468.281	1445.655	1439.539	1443.820	1437.093
6.5	1465.835	1443.820	1437.093	1441.374	1435.259
7.0	1464.001	1441.374	1435.259	1438.928	1432.813
7.5	1462.166	1438.928	1432.813	1436.482	1430.978
8.0	1459.108	1436.482	1429.755	1434.036	1428.532
8.5	1456.662	1433.424	1426.697	1430.978	1425.474
9.0	1453.605	1430.978	1424.251	1427.920	1422.417
9.5	1450.547	1427.920	1420.582	1424.251	1419.359
10.0	1447.489	1424.863	1417.524	1421.194	1415.690
10.5	1443.820	1421.194	1413.855	1417.524	1412.632
11.0	1440.763	1417.524	1410.186	1413.855	1408.352
11.5	1436.482	1413.855	1406.517	1410.186	1404.682
12.0	1432.813	1410.186	1402.848	1405.905	1400.402
12.5	1429.144	1405.905	1398.567	1401.625	1396.121
13.0	1424.863	1402.236	1394.286	1397.344	1391.840
13.5	1420.582	1397.344	1390.006	1392.452	1387.560
14.0	1416.301	1393.063	1385.113	1388.171	1383.279
14.5	1412.021	1388.783	1380.221	1383.279	1378.387
15.0	1407.740	1383.890	1375.329	1378.387	1373.494
15.5	1402.236	1379.610	1370.437	1372.883	1367.991
16.0	1396.121	1374.717	1364.933	1367.991	1363.098
16.5	1390.006	1369.214	1359.429	1362.487	1357.595
17.0	1384.502	1363.710	1353.925	1356.983	1352.091
17.5	1378.387	1357.595	1347.810	1350.868	1345.976
18.0	1372.271	1351.479	1341.695	1344.752	1339.860
18.5	1366.156	1345.364	1335.580	1338.026	1333.745
19.0	1360.041	1339.249	1330.076	1331.910	1326.407
19.5	1353.314	1333.133	1323.960	1324.572	1319.068
20.0	1347.199	1326.407	1318.457	1317.845	1311.730
20.5	1340.472	1320.291	1312.341	1310.507	1304.392
21.0	1333.745	1313.565	1305.615	1303.169	1296.442
21.5	1326.407	1306.838	1298.276	1295.830	1288.492
22.0	1319.680	1299.499	1290.326	1287.880	1281.153
22.5	1312.341	1292.161	1282.988	1279.930	1273.204
23.0	1305.003	1284.823	1275.650	1271.369	1265.254
23.5	1297.665	1277.484	1267.700	1263.419	1257.915
24.0	1289.715	1270.146	1260.361	1255.469	1249.965
24.5	1281.765	1262.196	1252.412	1247.519	1242.016
25.0	1274.427	1254.246	1244.462	1239.569	1234.066
25.5	1266.477	1246.296	1235.900	1231.620	1225.504
26.0	1257.915	1237.735	1227.950	1223.670	1217.554
26.5	1249.965	1229.785	1219.389	1215.720	1209.605

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1241.404	1221.224	1210.828	1207.770	1201.043
27.5	1232.843	1212.662	1202.878	1199.820	1193.093
28.0	1224.281	1203.489	1193.705	1191.259	1184.532
28.5	1215.108	1194.316	1185.143	1183.309	1175.970
29.0	1205.935	1185.755	1176.582	1174.747	1167.409
29.5	1197.374	1176.582	1168.021	1165.574	1159.459
30.0	1188.201	1167.409	1159.459	1157.013	1150.898
30.5	1179.028	1158.236	1150.286	1148.452	1142.336
31.0	1169.244	1149.675	1141.113	1139.279	1133.775
31.5	1160.071	1140.502	1131.940	1130.106	1124.602
32.0	1150.286	1130.717	1122.767	1120.321	1115.429
32.5	1140.502	1121.544	1113.594	1111.148	1105.645
33.0	1130.717	1112.371	1104.422	1101.975	1095.860
33.5	1121.544	1102.587	1094.637	1092.191	1086.687
34.0	1111.148	1092.802	1085.464	1082.407	1076.903
34.5	1101.364	1083.018	1075.068	1072.622	1066.507
35.0	1091.579	1073.845	1065.284	1062.838	1056.111
35.5	1081.183	1063.449	1055.499	1053.053	1045.715
36.0	1070.787	1053.665	1045.715	1042.657	1035.930
36.5	1061.003	1043.880	1035.930	1032.873	1026.146
37.0	1050.607	1033.484	1025.534	1022.477	1015.750
37.5	1040.211	1023.088	1015.750	1012.081	1005.965
38.0	1029.203	1012.692	1005.354	1001.685	995.569
38.5	1018.807	1002.296	994.958	991.900	985.173
39.0	1009.023	991.900	984.562	981.504	975.389
39.5	998.015	981.504	974.777	971.108	964.381
40.0	987.619	970.497	964.381	960.712	954.597
40.5	976.612	960.101	953.985	950.316	944.201
41.0	966.216	949.093	943.589	939.309	933.193
41.5	955.208	938.697	932.582	928.913	922.186
42.0	944.812	927.690	922.186	918.517	911.790
42.5	934.416	917.294	911.790	907.509	901.394
43.0	923.409	906.898	901.394	897.113	890.386
43.5	913.013	895.890	890.386	886.717	879.990
44.0	902.005	884.883	879.379	875.710	869.594
44.5	890.998	873.875	868.371	864.702	858.587
45.0	879.990	863.479	857.975	853.695	848.191
45.5	869.594	852.472	846.968	843.299	837.795
46.0	858.587	841.464	835.960	832.291	827.399
46.5	847.579	830.457	825.564	821.895	817.003
47.0	836.572	819.449	814.557	810.888	805.995
47.5	824.953	808.441	803.549	799.880	795.599
48.0	813.945	797.434	792.542	789.484	784.592
48.5	802.938	786.426	782.146	778.477	773.584
49.0	791.319	775.419	771.138	767.469	763.188
49.5	780.311	764.411	760.131	757.073	752.792
50.0	768.692	753.404	749.123	746.066	741.785
50.5	757.073	742.396	738.116	735.058	731.389
51.0	745.454	731.389	727.108	724.050	720.381
51.5	734.446	720.381	716.101	713.654	709.374
52.0	723.439	709.374	705.093	702.647	698.978
52.5	711.820	698.366	694.086	692.251	687.970
53.0	700.812	687.359	683.078	681.243	676.963
53.5	689.193	676.351	672.070	670.236	665.955
54.0	678.186	665.344	661.674	659.840	654.948
54.5	667.178	654.948	650.667	648.832	643.940

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

55.0	656.171	644.552	640.271	638.436	633.544
55.5	645.775	633.544	629.263	627.429	623.148
56.0	634.156	622.537	618.256	617.033	612.141
56.5	623.148	612.141	607.554	606.209	601.378
57.0	612.752	601.133	596.730	595.262	590.676
57.5	601.989	590.493	585.967	584.622	579.852
58.0	591.226	579.974	575.143	573.920	569.150
58.5	580.402	569.395	564.502	563.402	558.876
59.0	569.762	558.754	553.801	552.761	548.419
59.5	559.427	547.991	542.915	542.182	538.084
60.0	548.847	537.289	532.153	531.541	527.566
60.5	538.390	526.832	521.757	520.839	516.926
61.0	528.117	516.375	511.422	510.382	506.530
61.5	517.109	506.040	501.148	499.986	496.256
62.0	506.285	495.400	490.507	489.651	485.738
62.5	495.216	485.554	480.478	479.806	475.770
63.0	484.576	476.870	472.773	472.467	469.165
63.5	473.813	467.392	464.151	463.478	460.053
64.0	467.331	458.158	455.222	453.877	449.963
64.5	457.240	448.312	445.132	443.909	440.240
65.0	445.927	437.794	435.164	434.002	430.455
65.5	434.369	427.153	424.768	424.218	420.610
66.0	423.239	416.757	414.617	414.372	410.519
66.5	412.232	406.116	404.282	404.282	400.857
67.0	401.347	395.537	394.069	394.253	391.134
67.5	390.645	385.141	383.796	384.163	381.105
68.0	379.821	374.745	373.522	374.011	370.831
68.5	368.936	364.166	363.187	363.860	360.741
69.0	357.683	353.525	352.791	353.158	350.284
69.5	346.737	343.068	342.212	342.640	340.010
70.0	335.913	332.488	331.877	332.060	329.737
70.5	325.272	321.848	321.420	321.603	319.402
71.0	314.387	311.268	311.146	311.391	309.006
71.5	303.502	300.689	300.933	301.117	299.038
72.0	292.922	290.048	290.537	290.782	289.009
72.5	282.343	279.591	280.386	280.631	279.163
73.0	271.886	269.379	270.479	270.785	269.501
73.5	261.734	259.288	260.573	261.123	259.716
74.0	251.705	249.198	250.788	251.216	250.299
74.5	241.676	239.291	241.065	241.493	240.820
75.0	231.586	229.446	231.464	231.892	231.341
75.5	221.618	219.600	221.924	222.474	221.863
76.0	211.528	210.121	212.506	213.118	212.629
76.5	201.988	200.765	203.150	203.823	203.395
77.0	192.693	191.347	193.977	194.589	193.916
77.5	183.092	182.175	184.804	185.293	184.621
78.0	173.735	173.002	175.631	176.365	175.692
78.5	164.440	164.073	166.581	167.437	166.886
79.0	155.512	155.145	157.713	158.753	158.325
79.5	146.584	146.400	148.969	150.069	149.702
80.0	137.778	137.839	140.224	141.752	141.263
80.5	128.910	129.461	131.907	133.374	133.008
81.0	120.410	121.266	123.651	125.180	124.935
81.5	112.216	113.133	115.579	117.108	116.924
82.0	104.571	105.183	107.690	109.280	109.097
82.5	96.927	97.478	99.924	101.514	101.391

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	89.283	90.139	92.280	93.931	94.053
83.5	81.761	82.801	84.880	86.470	86.837
84.0	74.729	75.585	77.542	79.071	79.621
84.5	67.574	68.491	70.326	71.855	72.405
85.0	60.908	61.642	63.354	64.700	65.189
85.5	54.426	54.793	56.261	57.667	58.156
86.0	48.066	48.188	49.473	50.757	51.368
86.5	41.767	41.767	42.929	44.091	44.642
87.0	35.408	35.408	36.264	37.731	38.159
87.5	29.109	29.170	29.965	31.433	31.983
88.0	23.116	23.055	23.850	25.440	26.051
88.5	17.367	17.000	18.040	19.447	20.303
89.0	11.252	11.069	12.475	13.821	14.738
89.5	5.198	6.176	7.461	8.500	8.806
90.0	0.000	0.000	0.000	0.000	0.000
90.5	3.775	1.989	1.836	1.785	1.938
91.0	8.314	4.387	3.570	3.519	3.468
91.5	13.364	8.926	5.305	5.254	5.203
92.0	18.465	14.843	7.651	6.835	6.835
92.5	23.769	20.964	11.834	8.569	8.416
93.0	29.278	26.830	16.730	11.375	10.252
93.5	34.838	32.440	21.984	15.353	13.364
94.0	40.296	37.949	27.799	20.097	17.597
94.5	45.906	43.458	33.869	24.993	22.188
95.0	51.415	49.120	39.837	29.992	26.728
95.5	56.924	54.425	45.651	35.144	31.522
96.0	62.178	59.831	51.364	40.500	36.419
96.5	67.482	65.238	57.077	45.957	41.469
97.0	72.634	70.543	62.739	51.415	46.824
97.5	77.939	75.899	68.451	56.975	52.180
98.0	83.193	81.152	74.011	62.484	57.587
98.5	88.446	86.457	79.367	68.094	62.994
99.0	93.802	91.915	84.825	73.450	68.451
99.5	99.209	97.321	90.334	78.806	73.807
100.0	104.513	102.779	95.842	84.315	79.061
100.5	110.022	108.237	101.351	90.027	84.366
101.0	115.684	113.695	106.962	95.791	90.129
101.5	121.448	119.255	112.675	101.555	96.097
102.0	127.059	125.018	118.387	107.319	102.014
102.5	132.924	130.731	124.304	113.083	107.880
103.0	138.943	136.648	130.170	118.795	113.848
103.5	144.962	142.667	136.393	124.916	119.765
104.0	151.134	148.737	142.718	131.241	125.936
104.5	157.510	155.061	149.043	137.719	132.108
105.0	164.039	161.539	155.317	144.095	138.382
105.5	170.721	168.119	161.794	150.522	144.605
106.0	177.505	174.750	168.374	157.051	150.828
106.5	184.340	181.585	175.260	163.631	157.102
107.0	191.634	188.726	182.605	170.619	163.937
107.5	199.183	196.071	190.052	178.015	171.333
108.0	206.681	203.620	197.652	186.023	178.933
108.5	214.587	211.322	205.252	194.031	186.788
109.0	222.697	219.177	213.056	202.141	194.745
109.5	231.011	227.338	221.269	210.200	202.804
110.0	239.886	235.704	229.685	218.463	211.220
110.5	248.965	244.273	238.305	227.338	219.942

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	258.147	253.250	247.231	236.571	228.716
111.5	267.532	262.482	256.310	245.956	237.744
112.0	277.274	271.970	265.339	255.341	246.364
112.5	287.068	281.712	274.469	264.676	255.494
113.0	297.320	291.760	284.109	274.316	265.033
113.5	307.879	302.268	294.311	284.721	275.285
114.0	318.590	312.979	305.124	295.790	286.660
114.5	329.659	324.048	316.142	307.318	298.748
115.0	340.880	335.422	327.567	318.947	310.990
115.5	352.612	346.899	339.299	330.526	323.079
116.0	364.445	358.835	351.439	342.716	335.371
116.5	376.942	371.076	363.986	355.213	348.480
117.0	389.949	383.573	376.636	368.679	361.997
117.5	399.538	393.315	388.215	381.074	375.718
118.0	411.780	404.690	400.099	393.877	387.909
118.5	426.011	418.258	412.239	405.761	398.875
119.0	439.936	431.622	426.011	419.227	411.066
119.5	454.014	445.853	440.599	432.897	424.736
120.0	468.551	460.594	455.238	447.842	439.171
120.5	482.986	475.539	470.336	463.705	454.575
121.0	498.135	490.790	485.536	479.517	470.948
121.5	513.131	505.888	500.685	495.534	486.964
122.0	528.943	521.292	516.702	511.601	503.032
122.5	544.245	536.594	532.514	527.413	518.232
123.0	560.058	552.917	548.836	544.755	535.064
123.5	576.380	569.239	566.178	562.098	552.406
124.0	592.702	586.071	583.011	579.440	570.259
124.5	609.024	602.393	599.843	596.273	587.601
125.0	625.347	618.716	616.165	613.105	604.434
125.5	642.179	635.548	632.998	629.937	620.756
126.0	658.501	651.870	650.340	646.770	637.078
126.5	674.823	668.192	667.682	664.622	654.421
127.0	691.656	685.025	685.025	682.474	672.783
127.5	708.488	701.347	701.347	699.817	691.146
128.0	724.810	717.669	718.179	717.159	708.488
128.5	741.133	733.482	734.502	734.502	725.320
129.0	757.455	749.294	750.824	751.334	742.663
129.5	773.777	765.616	767.656	768.676	760.515
130.0	790.099	781.938	784.489	786.019	779.388
130.5	806.422	797.750	801.831	802.851	797.240
131.0	822.744	813.563	818.153	819.173	813.563
131.5	838.046	828.865	834.476	834.476	829.375
132.0	853.858	844.167	850.288	850.798	844.677
132.5	869.160	859.979	866.100	866.610	859.979
133.0	884.462	875.791	881.402	882.422	874.771
133.5	899.765	891.093	897.214	898.234	890.583
134.0	915.067	905.885	912.006	913.536	905.885
134.5	928.839	920.677	926.288	927.308	920.677
135.0	942.610	934.959	940.060	941.080	933.939
135.5	955.872	949.751	953.832	954.342	947.201
136.0	969.134	963.523	966.584	968.114	960.973
136.5	982.906	976.785	979.336	981.886	975.255
137.0	995.658	990.047	992.597	994.638	988.517
137.5	1008.410	1002.289	1004.839	1006.369	1000.248
138.0	1020.651	1014.530	1016.571	1017.591	1011.470
138.5	1032.893	1026.262	1028.302	1028.812	1022.182

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1044.625	1037.994	1040.034	1040.034	1032.893
139.5	1056.356	1049.725	1051.256	1050.745	1043.094
140.0	1067.578	1060.437	1062.477	1061.967	1054.316
140.5	1078.289	1070.638	1072.678	1072.168	1064.007
141.0	1089.001	1081.350	1082.880	1081.860	1073.699
141.5	1098.692	1091.041	1093.081	1091.551	1082.370
142.0	1108.894	1101.242	1102.773	1100.732	1091.551
142.5	1118.585	1110.934	1112.464	1110.424	1100.222
143.0	1128.276	1120.115	1121.645	1119.605	1109.404
143.5	1137.457	1129.806	1130.827	1128.786	1118.075
144.0	1146.129	1138.988	1139.498	1136.947	1126.236
144.5	1154.800	1147.659	1148.169	1145.109	1134.397
145.0	1162.961	1156.330	1156.330	1152.760	1142.048
145.5	1171.632	1165.001	1164.491	1161.431	1150.209
146.0	1179.793	1173.162	1172.652	1169.082	1158.370
146.5	1187.954	1181.324	1180.303	1177.243	1166.531
147.0	1195.606	1189.485	1187.444	1185.404	1174.693
147.5	1203.257	1197.136	1195.095	1193.055	1182.344
148.0	1210.908	1204.787	1201.726	1200.196	1190.505
148.5	1218.559	1212.438	1208.357	1207.337	1198.666
149.0	1225.700	1220.089	1214.988	1214.478	1206.827
149.5	1232.841	1227.230	1221.109	1221.619	1214.478
150.0	1239.982	1234.371	1227.740	1228.250	1221.619
150.5	1247.123	1241.512	1233.861	1234.371	1228.760
151.0	1253.754	1248.143	1239.982	1240.492	1235.391
151.5	1260.895	1254.774	1246.613	1246.613	1241.512
152.0	1267.525	1261.405	1252.733	1252.223	1247.633
152.5	1274.156	1267.525	1258.854	1258.344	1253.243
153.0	1280.787	1273.646	1264.975	1264.465	1258.344
153.5	1286.908	1279.767	1271.096	1270.586	1262.935
154.0	1293.029	1285.888	1277.727	1276.707	1268.036
154.5	1299.660	1291.499	1283.848	1282.318	1273.136
155.0	1305.781	1297.110	1289.969	1288.438	1278.747
155.5	1311.392	1302.210	1296.089	1294.559	1284.358
156.0	1317.002	1307.821	1302.720	1300.170	1289.969
156.5	1322.613	1313.432	1308.841	1306.291	1295.579
157.0	1328.224	1319.043	1314.962	1312.412	1301.190
157.5	1333.325	1324.143	1320.573	1318.022	1306.801
158.0	1338.425	1329.244	1326.184	1323.633	1312.412
158.5	1344.036	1334.855	1331.794	1329.244	1318.533
159.0	1348.627	1339.955	1336.895	1334.855	1324.143
159.5	1353.727	1345.056	1341.996	1340.466	1329.754
160.0	1358.318	1349.647	1347.096	1345.566	1335.365
160.5	1362.909	1354.237	1351.687	1350.667	1340.976
161.0	1367.499	1358.828	1356.278	1355.768	1346.586
161.5	1372.090	1363.929	1360.358	1360.868	1352.197
162.0	1377.191	1368.519	1364.439	1365.969	1357.298
162.5	1381.781	1373.110	1368.519	1370.560	1361.889
163.0	1386.372	1377.701	1372.600	1375.150	1366.479
163.5	1390.963	1381.781	1376.681	1379.741	1370.560
164.0	1395.553	1385.862	1380.251	1383.822	1374.640
164.5	1399.124	1389.942	1383.822	1387.902	1378.721
165.0	1403.204	1394.023	1387.392	1391.983	1382.291
165.5	1407.285	1397.593	1390.963	1395.553	1385.862
166.0	1411.365	1401.164	1394.533	1399.124	1388.922
166.5	1415.446	1404.734	1398.104	1402.184	1392.493

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1419.016	1407.795	1401.164	1405.245	1395.553
167.5	1422.587	1410.855	1404.734	1408.305	1399.124
168.0	1426.157	1413.916	1407.795	1411.365	1402.184
168.5	1429.728	1416.976	1410.855	1414.426	1405.755
169.0	1432.788	1419.527	1413.916	1416.976	1408.815
169.5	1435.339	1422.077	1416.466	1419.527	1411.875
170.0	1437.889	1424.627	1419.016	1422.077	1415.446
170.5	1440.439	1427.178	1421.057	1424.627	1417.996
171.0	1442.990	1429.218	1423.097	1427.178	1420.547
171.5	1445.030	1431.258	1425.137	1429.728	1423.097
172.0	1447.070	1433.298	1426.667	1431.768	1425.137
172.5	1449.111	1435.339	1428.198	1433.298	1426.667
173.0	1451.151	1437.379	1429.728	1435.339	1427.688
173.5	1452.681	1438.909	1431.258	1436.359	1428.708
174.0	1454.211	1440.439	1432.788	1437.379	1429.218
174.5	1455.231	1441.460	1433.808	1438.399	1429.728
175.0	1456.252	1442.990	1434.829	1438.909	1429.728
175.5	1457.272	1444.010	1436.359	1439.419	1430.238
176.0	1458.292	1445.030	1437.379	1439.419	1430.238
176.5	1458.802	1446.050	1437.889	1439.929	1430.238
177.0	1459.312	1447.070	1438.909	1439.929	1429.728
177.5	1460.332	1448.090	1439.929	1439.929	1429.728
178.0	1460.842	1448.090	1440.439	1439.929	1430.238
178.5	1460.842	1448.601	1440.949	1439.929	1430.238
179.0	1461.352	1449.111	1440.949	1439.929	1430.238
179.5	1461.862	1449.111	1441.460	1439.929	1430.238
180.0	1444.010	1444.010	1444.010	1444.010	1444.010

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	526.89	N.A.	7.10
0-30	1101.54	N.A.	14.90
0-40	1769.64	N.A.	23.90
0-60	3007.02	N.A.	40.60
0-80	3682.44	N.A.	49.70
0-90	3753.8	N.A.	50.70
10-90	3616.28	N.A.	48.80
20-40	1242.76	N.A.	16.80
20-50	1905.98	N.A.	25.70
40-70	1667.41	N.A.	22.50
60-80	675.41	N.A.	9.10
70-80	245.38	N.A.	3.30
80-90	71.37	N.A.	1.00
90-110	208.97	N.A.	2.80
90-120	536.45	N.A.	7.20
90-130	1086.77	N.A.	14.70
90-150	2527.74	N.A.	34.10
90-180	3653.25	N.A.	49.30
110-180	3444.27	N.A.	46.50
0-180	7407.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.53
10-20	389.36
20-30	574.65
30-40	668.10
40-50	663.23
50-60	574.15
60-70	430.03
70-80	245.38
80-90	71.37
90-100	45.07
100-110	163.90
110-120	327.48
120-130	550.31
130-140	719.58
140-150	721.38
150-160	595.90
160-170	392.67
170-180	136.94

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-950U-L12-950D-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 : MX4UDC-4-00-L8-950U-L12-950D-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	15.9	16.8	16.9	17.8	19.0	15.8	16.7	16.8	17.7	18.9
	3H	17.7	18.5	18.6	19.4	20.7	17.6	18.4	18.5	19.3	20.6
	4H	18.3	19.0	19.3	20.0	21.3	18.2	19.0	19.2	19.9	21.2
	6H	18.7	19.4	19.7	20.4	21.7	18.7	19.4	19.7	20.3	21.6
	8H	18.9	19.5	19.8	20.5	21.8	18.8	19.5	19.8	20.5	21.8
	12H	18.9	19.6	19.9	20.5	21.9	18.9	19.5	19.9	20.5	21.9

UGR Viewed Endwise

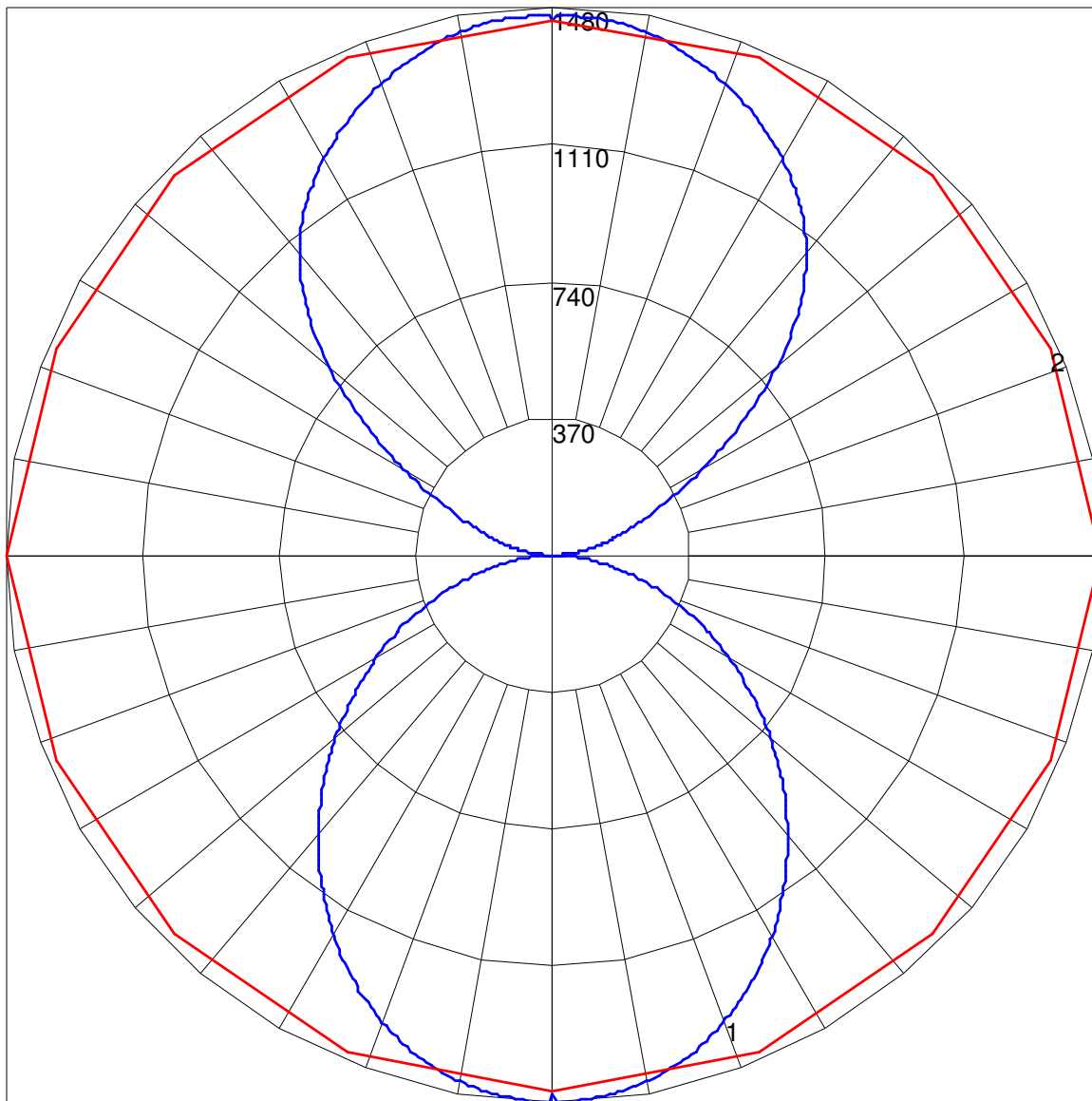
4H	2H	16.5	17.2	17.4	18.2	19.5	16.4	17.1	17.3	18.1	19.4
	3H	18.4	19.0	19.4	20.0	21.3	18.3	19.0	19.3	20.0	21.3
	4H	19.2	19.7	20.1	20.7	22.0	19.1	19.7	20.1	20.7	22.0
	6H	19.7	20.2	20.7	21.2	22.5	19.7	20.2	20.7	21.2	22.5
	8H	19.9	20.3	20.9	21.4	22.7	19.9	20.3	20.9	21.4	22.7
	12H	20.0	20.4	21.0	21.4	22.8	20.0	20.4	21.1	21.5	22.8

8H	4H	19.4	19.9	20.4	20.9	22.2	19.4	19.8	20.4	20.8	22.2
	6H	20.1	20.5	21.1	21.5	22.9	20.1	20.5	21.1	21.5	22.8
	8H	20.4	20.7	21.4	21.7	23.1	20.4	20.7	21.4	21.7	23.1
	12H	20.5	20.8	21.6	21.9	23.3	20.6	20.9	21.6	21.9	23.3

12H	4H	19.4	19.8	20.4	20.8	22.2	19.3	19.8	20.4	20.8	22.1
	6H	20.1	20.5	21.2	21.5	22.9	20.1	20.5	21.2	21.5	22.9
	8H	20.4	20.7	21.5	21.8	23.2	20.4	20.7	21.5	21.8	23.2

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1479.9 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.)