

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L12-940D-F-F-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & #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-L12-940U-L12-940D-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	8518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	81.9
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	11589	11299	11171
55	10654	10395	10286
65	9826	9589	9485
75	8333	8328	8324
85	6508	6769	6965

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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	1681.642	1681.642	1681.642	1681.642	1681.642
0.5	1707.036	1683.053	1674.588	1678.115	1672.472
1.0	1707.036	1682.347	1674.588	1678.115	1672.472
1.5	1706.331	1681.642	1673.883	1678.115	1671.767
2.0	1705.625	1680.937	1673.177	1677.410	1671.767
2.5	1704.920	1680.231	1671.767	1676.704	1671.061
3.0	1703.509	1678.821	1671.061	1675.999	1669.650
3.5	1702.098	1677.410	1669.650	1674.588	1668.240
4.0	1700.688	1675.999	1668.240	1673.177	1666.829
4.5	1699.277	1673.883	1666.829	1671.767	1664.713
5.0	1697.866	1672.472	1664.713	1669.650	1662.597
5.5	1695.750	1670.356	1662.597	1667.534	1660.480
6.0	1693.634	1667.534	1660.480	1665.418	1657.659
6.5	1690.812	1665.418	1657.659	1662.597	1655.543
7.0	1688.696	1662.597	1655.543	1659.775	1652.721
7.5	1686.580	1659.775	1652.721	1656.954	1650.605
8.0	1683.053	1656.954	1649.194	1654.132	1647.784
8.5	1680.231	1653.427	1645.667	1650.605	1644.257
9.0	1676.704	1650.605	1642.846	1647.078	1640.730
9.5	1673.177	1647.078	1638.613	1642.846	1637.203
10.0	1669.650	1643.551	1635.087	1639.319	1632.970
10.5	1665.418	1639.319	1630.854	1635.087	1629.443
11.0	1661.891	1635.087	1626.622	1630.854	1624.506
11.5	1656.954	1630.854	1622.390	1626.622	1620.273
12.0	1652.721	1626.622	1618.157	1621.684	1615.336
12.5	1648.489	1621.684	1613.220	1616.746	1610.398
13.0	1643.551	1617.452	1608.282	1611.809	1605.460
13.5	1638.613	1611.809	1603.344	1606.166	1600.523
14.0	1633.676	1606.871	1597.701	1601.228	1595.585
14.5	1628.738	1601.933	1592.058	1595.585	1589.942
15.0	1623.800	1596.290	1586.415	1589.942	1584.299
15.5	1617.452	1591.353	1580.772	1583.593	1577.950
16.0	1610.398	1585.709	1574.423	1577.950	1572.307
16.5	1603.344	1579.361	1568.075	1571.602	1565.959
17.0	1596.996	1573.013	1561.726	1565.253	1559.610
17.5	1589.942	1565.959	1554.672	1558.199	1552.556
18.0	1582.888	1558.905	1547.619	1551.146	1545.502
18.5	1575.834	1551.851	1540.565	1543.386	1538.449
19.0	1568.780	1544.797	1534.216	1536.332	1529.984
19.5	1561.021	1537.743	1527.162	1527.868	1521.519
20.0	1553.967	1529.984	1520.814	1520.108	1513.055
20.5	1546.208	1522.930	1513.760	1511.644	1504.590
21.0	1538.449	1515.171	1506.001	1503.179	1495.420
21.5	1529.984	1507.412	1497.536	1494.715	1486.250
22.0	1522.225	1498.947	1488.366	1485.545	1477.785
22.5	1513.760	1490.482	1479.901	1476.375	1468.615
23.0	1505.295	1482.018	1471.437	1466.499	1459.445
23.5	1496.831	1473.553	1462.267	1457.329	1450.981
24.0	1487.661	1465.088	1453.802	1448.159	1441.811
24.5	1478.491	1455.918	1444.632	1438.989	1432.641
25.0	1470.026	1446.748	1435.462	1429.819	1423.471
25.5	1460.856	1437.578	1425.587	1420.649	1413.595
26.0	1450.981	1427.703	1416.417	1411.479	1404.425
26.5	1441.811	1418.533	1406.541	1402.309	1395.255

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27.0	1431.935	1408.657	1396.666	1393.139	1385.380
27.5	1422.060	1398.782	1387.496	1383.969	1376.210
28.0	1412.184	1388.201	1376.915	1374.093	1366.334
28.5	1401.604	1377.620	1367.040	1364.923	1356.459
29.0	1391.023	1367.745	1357.164	1355.048	1346.583
29.5	1381.147	1357.164	1347.289	1344.467	1337.413
30.0	1370.567	1346.583	1337.413	1334.592	1327.538
30.5	1359.986	1336.003	1326.833	1324.716	1317.662
31.0	1348.700	1326.127	1316.252	1314.136	1307.787
31.5	1338.119	1315.546	1305.671	1303.555	1297.206
32.0	1326.833	1304.260	1295.090	1292.269	1286.625
32.5	1315.546	1293.679	1284.509	1281.688	1275.339
33.0	1304.260	1283.099	1273.929	1271.107	1264.053
33.5	1293.679	1271.812	1262.642	1259.821	1253.472
34.0	1281.688	1260.526	1252.062	1248.535	1242.186
34.5	1270.402	1249.240	1240.070	1237.248	1230.195
35.0	1259.115	1238.659	1228.784	1225.962	1218.203
35.5	1247.124	1226.668	1217.498	1214.676	1206.211
36.0	1235.132	1215.381	1206.211	1202.684	1194.925
36.5	1223.846	1204.095	1194.925	1191.398	1183.639
37.0	1211.854	1192.104	1182.934	1179.407	1171.647
37.5	1199.863	1180.112	1171.647	1167.415	1160.361
38.0	1187.166	1168.120	1159.656	1155.424	1148.370
38.5	1175.174	1156.129	1147.664	1144.137	1136.378
39.0	1163.888	1144.137	1135.673	1132.146	1125.092
39.5	1151.191	1132.146	1124.387	1120.154	1112.395
40.0	1139.200	1119.449	1112.395	1108.163	1101.109
40.5	1126.503	1107.457	1100.403	1096.171	1089.117
41.0	1114.511	1094.760	1088.412	1083.474	1076.420
41.5	1101.814	1082.769	1075.715	1071.483	1063.723
42.0	1089.823	1070.072	1063.723	1059.491	1051.732
42.5	1077.831	1058.080	1051.732	1046.794	1039.740
43.0	1065.134	1046.089	1039.740	1034.802	1027.043
43.5	1053.142	1033.392	1027.043	1022.811	1015.052
44.0	1040.445	1020.695	1014.346	1010.114	1003.060
44.5	1027.749	1007.998	1001.649	997.417	990.363
45.0	1015.052	996.006	989.658	984.720	978.371
45.5	1003.060	983.309	976.961	972.728	966.380
46.0	990.363	970.612	964.264	960.031	954.388
46.5	977.666	957.915	952.272	948.040	942.397
47.0	964.969	945.218	939.575	935.343	929.700
47.5	951.567	932.521	926.878	922.646	917.708
48.0	938.870	919.824	914.181	910.654	905.011
48.5	926.173	907.127	902.190	897.957	892.314
49.0	912.770	894.430	889.493	885.260	880.323
49.5	900.074	881.733	876.796	873.269	868.331
50.0	886.671	869.037	864.099	860.572	855.634
50.5	873.269	856.340	851.402	847.875	843.643
51.0	859.866	843.643	838.705	835.178	830.946
51.5	847.170	830.946	826.008	823.186	818.249
52.0	834.473	818.249	813.311	810.489	806.257
52.5	821.070	805.552	800.614	798.498	793.560
53.0	808.373	792.855	787.917	785.801	780.863
53.5	794.971	780.158	775.220	773.104	768.166
54.0	782.274	767.461	763.228	761.112	755.469
54.5	769.577	755.469	750.532	748.415	742.772

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55.0	756.880	743.478	738.540	736.424	730.781
55.5	744.888	730.781	725.843	723.727	718.789
56.0	731.486	718.084	713.146	711.735	706.092
56.5	718.789	706.092	700.802	699.250	693.677
57.0	706.798	693.395	688.316	686.623	681.333
57.5	694.383	681.121	675.902	674.350	668.848
58.0	681.968	668.989	663.416	662.006	656.503
58.5	669.483	656.786	651.143	649.873	644.653
59.0	657.209	644.512	638.798	637.599	632.591
59.5	645.288	632.097	626.242	625.396	620.670
60.0	633.085	619.753	613.828	613.122	608.537
60.5	621.022	607.691	601.836	600.778	596.263
61.0	609.172	595.629	589.915	588.716	584.272
61.5	596.475	583.708	578.065	576.724	572.421
62.0	583.990	571.434	565.791	564.803	560.289
62.5	571.222	560.077	554.222	553.446	548.791
63.0	558.948	550.061	545.334	544.982	541.173
63.5	546.534	539.127	535.389	534.613	530.662
64.0	539.057	528.476	525.090	523.538	519.024
64.5	527.418	517.119	513.451	512.040	507.808
65.0	514.368	504.986	501.953	500.613	496.522
65.5	501.036	492.713	489.962	489.327	485.165
66.0	488.198	480.721	478.252	477.970	473.526
66.5	475.501	468.447	466.331	466.331	462.381
67.0	462.945	456.244	454.551	454.763	451.165
67.5	450.601	444.253	442.701	443.124	439.597
68.0	438.116	432.261	430.850	431.415	427.747
68.5	425.560	420.058	418.929	419.705	416.108
69.0	412.581	407.784	406.938	407.361	404.046
69.5	399.954	395.722	394.734	395.228	392.195
70.0	387.469	383.519	382.813	383.025	380.345
70.5	375.195	371.245	370.751	370.963	368.424
71.0	362.639	359.042	358.901	359.183	356.432
71.5	350.083	346.839	347.121	347.332	344.934
72.0	337.880	334.565	335.129	335.411	333.366
72.5	325.677	322.503	323.420	323.702	322.009
73.0	313.615	310.723	311.993	312.345	310.864
73.5	301.906	299.084	300.565	301.200	299.578
74.0	290.337	287.445	289.279	289.773	288.715
74.5	278.769	276.018	278.064	278.557	277.781
75.0	267.130	264.661	266.989	267.483	266.848
75.5	255.632	253.304	255.985	256.620	255.914
76.0	243.993	242.371	245.122	245.827	245.263
76.5	232.989	231.578	234.330	235.105	234.612
77.0	222.267	220.716	223.749	224.454	223.678
77.5	211.193	210.135	213.168	213.732	212.956
78.0	200.400	199.554	202.587	203.434	202.658
78.5	189.679	189.255	192.147	193.135	192.500
79.0	179.380	178.957	181.919	183.118	182.625
79.5	169.081	168.870	171.832	173.102	172.679
80.0	158.924	158.994	161.745	163.509	162.944
80.5	148.695	149.330	152.152	153.845	153.422
81.0	138.891	139.878	142.629	144.393	144.111
81.5	129.439	130.497	133.318	135.082	134.870
82.0	120.621	121.327	124.219	126.053	125.841
82.5	111.804	112.439	115.260	117.094	116.953

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83.0	102.986	103.974	106.443	108.347	108.488
83.5	94.310	95.509	97.908	99.742	100.165
84.0	86.198	87.186	89.443	91.207	91.841
84.5	77.945	79.003	81.119	82.883	83.518
85.0	70.257	71.103	73.078	74.630	75.194
85.5	62.779	63.203	64.896	66.518	67.082
86.0	55.443	55.584	57.066	58.547	59.252
86.5	48.178	48.178	49.518	50.858	51.493
87.0	40.842	40.842	41.829	43.522	44.016
87.5	33.576	33.647	34.564	36.257	36.892
88.0	26.664	26.593	27.510	29.344	30.049
88.5	20.033	19.610	20.809	22.431	23.419
89.0	12.979	12.767	14.390	15.942	17.000
89.5	5.996	7.124	8.606	9.805	10.158
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.327	2.280	2.105	2.047	2.222
91.0	9.531	5.029	4.093	4.035	3.976
91.5	15.320	10.233	6.081	6.023	5.964
92.0	21.168	17.016	8.771	7.836	7.836
92.5	27.249	24.033	13.566	9.824	9.648
93.0	33.564	30.757	19.180	13.040	11.753
93.5	39.938	37.190	25.202	17.601	15.320
94.0	46.195	43.505	31.868	23.039	20.174
94.5	52.627	49.820	38.827	28.652	25.436
95.0	58.942	56.311	45.668	34.383	30.640
95.5	65.257	62.392	52.334	40.289	36.137
96.0	71.280	68.590	58.883	46.428	41.751
96.5	77.361	74.788	65.433	52.685	47.539
97.0	83.267	80.870	71.923	58.942	53.679
97.5	89.348	87.009	78.472	65.316	59.819
98.0	95.371	93.032	84.846	71.631	66.017
98.5	101.394	99.114	90.986	78.063	72.216
99.0	107.534	105.370	97.242	84.203	78.472
99.5	113.732	111.569	103.558	90.342	84.612
100.0	119.813	117.825	109.873	96.658	90.635
100.5	126.129	124.082	116.188	103.207	96.716
101.0	132.619	130.339	122.620	109.814	103.324
101.5	139.227	136.712	129.169	116.422	110.165
102.0	145.659	143.320	135.718	123.029	116.948
102.5	152.383	149.869	142.501	129.637	123.673
103.0	159.283	156.652	149.226	136.186	130.514
103.5	166.183	163.552	156.360	143.203	137.297
104.0	173.259	170.510	163.611	150.454	144.373
104.5	180.568	177.761	170.861	157.880	151.448
105.0	188.053	185.187	178.054	165.189	158.640
105.5	195.713	192.731	185.480	172.557	165.774
106.0	203.490	200.332	193.023	180.042	172.908
106.5	211.325	208.168	200.917	187.585	180.100
107.0	219.687	216.354	209.337	195.596	187.936
107.5	228.341	224.774	217.874	204.075	196.414
108.0	236.937	233.429	226.587	213.255	205.127
108.5	246.001	242.258	235.300	222.435	214.132
109.0	255.298	251.263	244.246	231.733	223.254
109.5	264.829	260.619	253.661	240.972	232.493
110.0	275.004	270.209	263.309	250.445	242.141
110.5	285.412	280.032	273.191	260.619	252.140

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111.0	295.937	290.324	283.424	271.203	262.198
111.5	306.697	300.908	293.832	281.962	272.548
112.0	317.865	311.784	304.182	292.721	282.430
112.5	329.092	322.952	314.649	303.422	292.897
113.0	340.846	334.472	325.701	314.474	303.831
113.5	352.950	346.517	337.396	326.402	315.585
114.0	365.229	358.797	349.792	339.091	328.624
114.5	377.918	371.486	362.422	352.306	342.483
115.0	390.782	384.526	375.521	365.639	356.517
115.5	404.231	397.682	388.970	378.912	370.375
116.0	417.797	411.365	402.887	392.887	384.467
116.5	432.124	425.399	417.271	407.214	399.495
117.0	447.034	439.725	431.773	422.651	414.991
117.5	458.028	450.894	445.046	436.860	430.720
118.0	472.061	463.933	458.671	451.537	444.695
118.5	488.376	479.488	472.588	465.161	457.267
119.0	504.339	494.808	488.376	480.599	471.243
119.5	520.478	511.122	505.099	496.270	486.914
120.0	537.143	528.021	521.881	513.403	503.462
120.5	553.691	545.154	539.190	531.588	521.121
121.0	571.058	562.638	556.615	549.715	539.891
121.5	588.249	579.946	573.982	568.076	558.252
122.0	606.376	597.605	592.343	586.495	576.672
122.5	623.919	615.147	610.470	604.622	594.097
123.0	642.046	633.859	629.181	624.503	613.393
123.5	660.757	652.571	649.062	644.385	633.274
124.0	679.469	671.867	668.359	664.266	653.740
124.5	698.181	690.579	687.655	683.562	673.622
125.0	716.892	709.291	706.367	702.859	692.918
125.5	736.189	728.587	725.664	722.155	711.630
126.0	754.901	747.299	745.545	741.452	730.341
126.5	773.612	766.011	765.426	761.917	750.223
127.0	792.909	785.307	785.307	782.383	771.273
127.5	812.205	804.019	804.019	802.265	792.324
128.0	830.917	822.731	823.315	822.146	812.205
128.5	849.629	840.857	842.027	842.027	831.502
129.0	868.340	858.984	860.739	861.323	851.383
129.5	887.052	877.696	880.035	881.205	871.849
130.0	905.764	896.408	899.332	901.086	893.484
130.5	924.475	914.535	919.213	920.382	913.950
131.0	943.187	932.662	937.924	939.094	932.662
131.5	960.729	950.204	956.636	956.636	950.789
132.0	978.856	967.746	974.763	975.348	968.331
132.5	996.399	985.873	992.890	993.475	985.873
133.0	1013.941	1004.000	1010.432	1011.602	1002.831
133.5	1031.483	1021.542	1028.559	1029.729	1020.958
134.0	1049.025	1038.500	1045.517	1047.271	1038.500
134.5	1064.813	1055.457	1061.890	1063.059	1055.457
135.0	1080.601	1071.830	1077.678	1078.847	1070.661
135.5	1095.805	1088.788	1093.466	1094.050	1085.864
136.0	1111.008	1104.576	1108.084	1109.838	1101.652
136.5	1126.796	1119.779	1122.703	1125.626	1118.025
137.0	1141.414	1134.982	1137.906	1140.245	1133.228
137.5	1156.033	1149.016	1151.940	1153.694	1146.677
138.0	1170.067	1163.050	1165.389	1166.558	1159.541
138.5	1184.100	1176.499	1178.838	1179.423	1171.821

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L12-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1197.549	1189.948	1192.287	1192.287	1184.100
139.5	1210.999	1203.397	1205.151	1204.566	1195.795
140.0	1223.863	1215.676	1218.015	1217.431	1208.660
140.5	1236.142	1227.371	1229.710	1229.125	1219.770
141.0	1248.422	1239.651	1241.405	1240.236	1230.880
141.5	1259.532	1250.761	1253.100	1251.346	1240.820
142.0	1271.227	1262.456	1264.210	1261.871	1251.346
142.5	1282.337	1273.566	1275.320	1272.981	1261.286
143.0	1293.447	1284.091	1285.845	1283.506	1271.812
143.5	1303.972	1295.201	1296.371	1294.032	1281.752
144.0	1313.913	1305.727	1306.311	1303.388	1291.108
144.5	1323.854	1315.667	1316.252	1312.743	1300.464
145.0	1333.209	1325.608	1325.608	1321.515	1309.235
145.5	1343.150	1335.548	1334.964	1331.455	1318.591
146.0	1352.506	1344.904	1344.319	1340.226	1327.947
146.5	1361.862	1354.260	1353.091	1349.582	1337.303
147.0	1370.633	1363.616	1361.277	1358.938	1346.658
147.5	1379.404	1372.387	1370.048	1367.709	1355.430
148.0	1388.175	1381.158	1377.650	1375.895	1364.785
148.5	1396.946	1389.929	1385.251	1384.082	1374.141
149.0	1405.133	1398.700	1392.853	1392.268	1383.497
149.5	1413.319	1406.887	1399.870	1400.455	1392.268
150.0	1421.505	1415.073	1407.471	1408.056	1400.455
150.5	1429.692	1423.259	1414.488	1415.073	1408.641
151.0	1437.293	1430.861	1421.505	1422.090	1416.243
151.5	1445.480	1438.463	1429.107	1429.107	1423.259
152.0	1453.081	1446.064	1436.124	1435.539	1430.276
152.5	1460.683	1453.081	1443.141	1442.556	1436.709
153.0	1468.285	1460.098	1450.158	1449.573	1442.556
153.5	1475.301	1467.115	1457.174	1456.590	1447.819
154.0	1482.318	1474.132	1464.776	1463.607	1453.666
154.5	1489.920	1480.564	1471.793	1470.039	1459.513
155.0	1496.937	1486.996	1478.810	1477.056	1465.946
155.5	1503.369	1492.844	1485.827	1484.073	1472.378
156.0	1509.801	1499.276	1493.428	1490.505	1478.810
156.5	1516.233	1505.708	1500.445	1497.522	1485.242
157.0	1522.665	1512.140	1507.462	1504.538	1491.674
157.5	1528.513	1517.988	1513.894	1510.971	1498.106
158.0	1534.360	1523.835	1520.326	1517.403	1504.538
158.5	1540.792	1530.267	1526.759	1523.835	1511.555
159.0	1546.055	1536.114	1532.606	1530.267	1517.988
159.5	1551.902	1541.962	1538.453	1536.699	1524.420
160.0	1557.165	1547.225	1544.301	1542.547	1530.852
160.5	1562.428	1552.487	1549.564	1548.394	1537.284
161.0	1567.691	1557.750	1554.826	1554.241	1543.716
161.5	1572.953	1563.597	1559.504	1560.089	1550.148
162.0	1578.801	1568.860	1564.182	1565.936	1555.996
162.5	1584.063	1574.123	1568.860	1571.199	1561.258
163.0	1589.326	1579.385	1573.538	1576.462	1566.521
163.5	1594.589	1584.063	1578.216	1581.724	1571.199
164.0	1599.851	1588.741	1582.309	1586.402	1575.877
164.5	1603.944	1593.419	1586.402	1591.080	1580.555
165.0	1608.622	1598.097	1590.495	1595.758	1584.648
165.5	1613.300	1602.190	1594.589	1599.851	1588.741
166.0	1617.978	1606.283	1598.682	1603.944	1592.250
166.5	1622.656	1610.377	1602.775	1607.453	1596.343

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L12-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1626.749	1613.885	1606.283	1610.961	1599.851
167.5	1630.843	1617.393	1610.377	1614.470	1603.944
168.0	1634.936	1620.902	1613.885	1617.978	1607.453
168.5	1639.029	1624.410	1617.393	1621.487	1611.546
169.0	1642.537	1627.334	1620.902	1624.410	1615.055
169.5	1645.461	1630.258	1623.826	1627.334	1618.563
170.0	1648.385	1633.181	1626.749	1630.258	1622.656
170.5	1651.308	1636.105	1629.088	1633.181	1625.580
171.0	1654.232	1638.444	1631.427	1636.105	1628.504
171.5	1656.571	1640.783	1633.766	1639.029	1631.427
172.0	1658.910	1643.122	1635.520	1641.368	1633.766
172.5	1661.249	1645.461	1637.275	1643.122	1635.520
173.0	1663.588	1647.800	1639.029	1645.461	1636.690
173.5	1665.342	1649.554	1640.783	1646.631	1637.859
174.0	1667.096	1651.308	1642.537	1647.800	1638.444
174.5	1668.266	1652.478	1643.707	1648.969	1639.029
175.0	1669.435	1654.232	1644.876	1649.554	1639.029
175.5	1670.605	1655.402	1646.631	1650.139	1639.614
176.0	1671.774	1656.571	1647.800	1650.139	1639.614
176.5	1672.359	1657.741	1648.385	1650.724	1639.614
177.0	1672.944	1658.910	1649.554	1650.724	1639.029
177.5	1674.113	1660.080	1650.724	1650.724	1639.029
178.0	1674.698	1660.080	1651.308	1650.724	1639.614
178.5	1674.698	1660.664	1651.893	1650.724	1639.614
179.0	1675.283	1661.249	1651.893	1650.724	1639.614
179.5	1675.868	1661.249	1652.478	1650.724	1639.614
180.0	1655.402	1655.402	1655.402	1655.402	1655.402

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L12-940D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	607.76	N.A.	7.10
0-30	1270.61	N.A.	14.90
0-40	2041.25	N.A.	24.00
0-60	3468.54	N.A.	40.70
0-80	4247.62	N.A.	49.90
0-90	4329.94	N.A.	50.80
10-90	4171.3	N.A.	49.00
20-40	1433.49	N.A.	16.80
20-50	2198.51	N.A.	25.80
40-70	1923.32	N.A.	22.60
60-80	779.08	N.A.	9.10
70-80	283.05	N.A.	3.30
80-90	82.32	N.A.	1.00
90-110	239.57	N.A.	2.80
90-120	614.99	N.A.	7.20
90-130	1245.86	N.A.	14.60
90-150	2897.78	N.A.	34.00
90-180	4188.05	N.A.	49.20
110-180	3948.49	N.A.	46.40
0-180	8517.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.64
10-20	449.12
20-30	662.85
30-40	770.64
40-50	765.02
50-60	662.28
60-70	496.03
70-80	283.05
80-90	82.32
90-100	51.67
100-110	187.89
110-120	375.42
120-130	630.88
130-140	824.93
140-150	826.99
150-160	683.13
160-170	450.16
170-180	156.99

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L12-940D-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	40	35	38	34	30	32	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	26	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-L12-940U-L12-940D-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	16.3	17.2	17.3	18.2	19.4	16.2	17.1	17.2	18.1	19.3
	3H	18.1	18.9	19.1	19.9	21.1	18.0	18.8	19.0	19.8	21.0
	4H	18.7	19.5	19.7	20.4	21.7	18.6	19.4	19.6	20.4	21.6
	6H	19.1	19.8	20.1	20.8	22.1	19.1	19.8	20.1	20.8	22.1
	8H	19.3	19.9	20.3	20.9	22.2	19.2	19.9	20.2	20.9	22.2
	12H	19.4	20.0	20.4	21.0	22.3	19.3	20.0	20.3	21.0	22.3

UGR Viewed Endwise

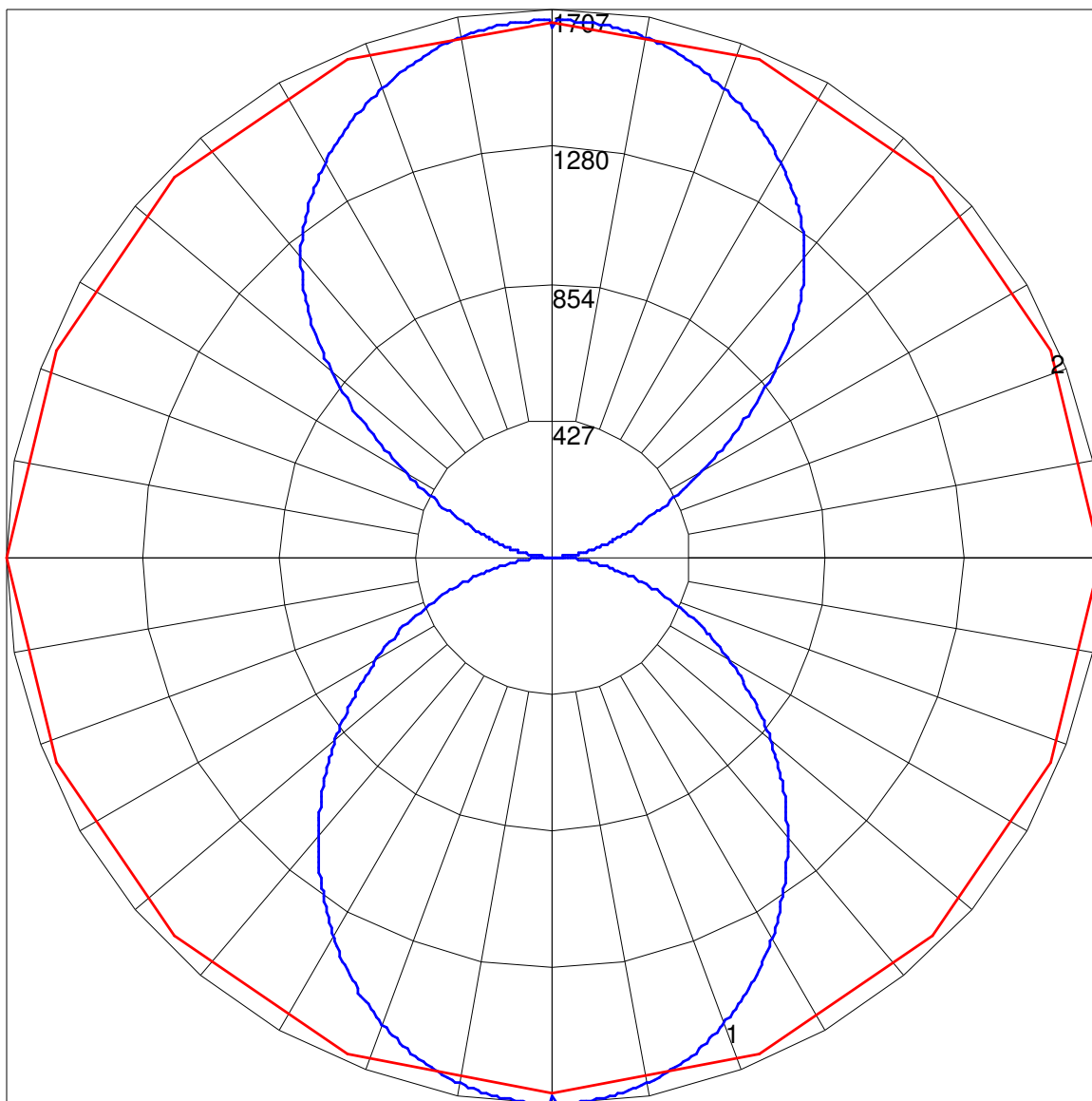
4H	2H	16.9	17.6	17.8	18.6	19.9	16.8	17.5	17.8	18.5	19.8
	3H	18.8	19.5	19.8	20.5	21.8	18.8	19.4	19.8	20.4	21.7
	4H	19.6	20.1	20.6	21.1	22.5	19.5	20.1	20.5	21.1	22.4
	6H	20.1	20.6	21.1	21.6	23.0	20.1	20.6	21.1	21.6	22.9
	8H	20.3	20.8	21.3	21.8	23.1	20.3	20.8	21.3	21.8	23.1
	12H	20.4	20.8	21.4	21.9	23.2	20.4	20.9	21.5	21.9	23.2

8H	4H	19.8	20.3	20.8	21.3	22.6	19.8	20.2	20.8	21.2	22.6
	6H	20.5	20.9	21.5	21.9	23.3	20.5	20.9	21.5	21.9	23.3
	8H	20.8	21.1	21.8	22.1	23.5	20.8	21.1	21.8	22.2	23.5
	12H	21.0	21.3	22.0	22.3	23.7	21.0	21.3	22.0	22.3	23.7

12H	4H	19.8	20.2	20.8	21.3	22.6	19.8	20.2	20.8	21.2	22.6
	6H	20.6	20.9	21.6	21.9	23.3	20.5	20.9	21.6	21.9	23.3
	8H	20.8	21.1	21.9	22.2	23.6	20.9	21.2	21.9	22.2	23.6

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1707.036 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.)