

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L12-950D-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-L12-950U-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)

[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	8815
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	11994	11694	11560
55	11025	10758	10645
65	10169	9924	9816
75	8623	8619	8614
85	6735	7006	7208

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-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	1740.304	1740.304	1740.304	1740.304	1740.304
0.5	1766.584	1741.764	1733.004	1736.654	1730.814
1.0	1766.584	1741.034	1733.004	1736.654	1730.814
1.5	1765.854	1740.304	1732.274	1736.654	1730.084
2.0	1765.124	1739.574	1731.544	1735.924	1730.084
2.5	1764.394	1738.844	1730.084	1735.194	1729.354
3.0	1762.934	1737.384	1729.354	1734.464	1727.894
3.5	1761.474	1735.924	1727.894	1733.004	1726.434
4.0	1760.014	1734.464	1726.434	1731.544	1724.974
4.5	1758.554	1732.274	1724.974	1730.084	1722.784
5.0	1757.094	1730.814	1722.784	1727.894	1720.594
5.5	1754.904	1728.624	1720.594	1725.704	1718.404
6.0	1752.714	1725.704	1718.404	1723.514	1715.484
6.5	1749.794	1723.514	1715.484	1720.594	1713.294
7.0	1747.604	1720.594	1713.294	1717.674	1710.374
7.5	1745.414	1717.674	1710.374	1714.754	1708.184
8.0	1741.764	1714.754	1706.724	1711.834	1705.264
8.5	1738.844	1711.104	1703.074	1708.184	1701.615
9.0	1735.194	1708.184	1700.155	1704.534	1697.965
9.5	1731.544	1704.534	1695.775	1700.155	1694.315
10.0	1727.894	1700.885	1692.125	1696.505	1689.935
10.5	1723.514	1696.505	1687.745	1692.125	1686.285
11.0	1719.864	1692.125	1683.365	1687.745	1681.175
11.5	1714.754	1687.745	1678.985	1683.365	1676.795
12.0	1710.374	1683.365	1674.605	1678.255	1671.685
12.5	1705.994	1678.255	1669.495	1673.145	1666.575
13.0	1700.885	1673.875	1664.385	1668.035	1661.465
13.5	1695.775	1668.035	1659.275	1662.195	1656.355
14.0	1690.665	1662.925	1653.435	1657.085	1651.245
14.5	1685.555	1657.815	1647.595	1651.245	1645.405
15.0	1680.445	1651.975	1641.755	1645.405	1639.565
15.5	1673.875	1646.865	1635.915	1638.835	1632.995
16.0	1666.575	1641.025	1629.345	1632.995	1627.155
16.5	1659.275	1634.455	1622.775	1626.425	1620.585
17.0	1652.705	1627.885	1616.205	1619.855	1614.015
17.5	1645.405	1620.585	1608.905	1612.555	1606.715
18.0	1638.105	1613.285	1601.605	1605.255	1599.415
18.5	1630.805	1605.985	1594.305	1597.225	1592.116
19.0	1623.505	1598.685	1587.736	1589.926	1583.356
19.5	1615.475	1591.386	1580.436	1581.166	1574.596
20.0	1608.175	1583.356	1573.866	1573.136	1565.836
20.5	1600.145	1576.056	1566.566	1564.376	1557.076
21.0	1592.116	1568.026	1558.536	1555.616	1547.586
21.5	1583.356	1559.996	1549.776	1546.856	1538.096
22.0	1575.326	1551.236	1540.286	1537.366	1529.336
22.5	1566.566	1542.476	1531.526	1527.876	1519.846
23.0	1557.806	1533.716	1522.766	1517.656	1510.356
23.5	1549.046	1524.956	1513.276	1508.166	1501.596
24.0	1539.556	1516.196	1504.516	1498.676	1492.106
24.5	1530.066	1506.706	1495.026	1489.186	1482.617
25.0	1521.306	1497.216	1485.536	1479.697	1473.127
25.5	1511.816	1487.726	1475.317	1470.207	1462.907
26.0	1501.596	1477.507	1465.827	1460.717	1453.417
26.5	1492.106	1468.017	1455.607	1451.227	1443.927

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27.0	1481.887	1457.797	1445.387	1441.737	1433.707
27.5	1471.667	1447.577	1435.897	1432.247	1424.217
28.0	1461.447	1436.627	1424.947	1422.027	1413.997
28.5	1450.497	1425.677	1414.727	1412.537	1403.777
29.0	1439.547	1415.457	1404.507	1402.317	1393.557
29.5	1429.327	1404.507	1394.287	1391.367	1384.067
30.0	1418.377	1393.557	1384.067	1381.147	1373.847
30.5	1407.427	1382.607	1373.117	1370.928	1363.628
31.0	1395.747	1372.388	1362.168	1359.978	1353.408
31.5	1384.797	1361.438	1351.218	1349.028	1342.458
32.0	1373.117	1349.758	1340.268	1337.348	1331.508
32.5	1361.438	1338.808	1329.318	1326.398	1319.828
33.0	1349.758	1327.858	1318.368	1315.448	1308.148
33.5	1338.808	1316.178	1306.688	1303.768	1297.198
34.0	1326.398	1304.498	1295.738	1292.088	1285.518
34.5	1314.718	1292.818	1283.328	1280.408	1273.108
35.0	1303.038	1281.868	1271.648	1268.728	1260.699
35.5	1290.628	1269.458	1259.969	1257.049	1248.289
36.0	1278.218	1257.779	1248.289	1244.639	1236.609
36.5	1266.538	1246.099	1236.609	1232.959	1224.929
37.0	1254.129	1233.689	1224.199	1220.549	1212.519
37.5	1241.719	1221.279	1212.519	1208.139	1200.839
38.0	1228.579	1208.869	1200.109	1195.729	1188.429
38.5	1216.169	1196.459	1187.699	1184.049	1176.019
39.0	1204.489	1184.049	1175.289	1171.639	1164.339
39.5	1191.349	1171.639	1163.609	1159.229	1151.200
40.0	1178.939	1158.499	1151.200	1146.820	1139.520
40.5	1165.799	1146.090	1138.790	1134.410	1127.110
41.0	1153.389	1132.950	1126.380	1121.270	1113.970
41.5	1140.250	1120.540	1113.240	1108.860	1100.830
42.0	1127.840	1107.400	1100.830	1096.450	1088.420
42.5	1115.430	1094.990	1088.420	1083.310	1076.010
43.0	1102.290	1082.580	1076.010	1070.900	1062.870
43.5	1089.880	1069.440	1062.870	1058.490	1050.460
44.0	1076.740	1056.300	1049.730	1045.350	1038.051
44.5	1063.600	1043.161	1036.591	1032.211	1024.911
45.0	1050.460	1030.751	1024.181	1019.071	1012.501
45.5	1038.051	1017.611	1011.041	1006.661	1000.091
46.0	1024.911	1004.471	997.901	993.521	987.681
46.5	1011.771	991.331	985.491	981.111	975.271
47.0	998.631	978.191	972.351	967.971	962.131
47.5	984.761	965.051	959.211	954.831	949.721
48.0	971.621	951.911	946.071	942.421	936.581
48.5	958.481	938.771	933.662	929.282	923.442
49.0	944.611	925.632	920.522	916.142	911.032
49.5	931.472	912.492	907.382	903.732	898.622
50.0	917.602	899.352	894.242	890.592	885.482
50.5	903.732	886.212	881.102	877.452	873.072
51.0	889.862	873.072	867.962	864.312	859.932
51.5	876.722	859.932	854.822	851.902	846.792
52.0	863.582	846.792	841.682	838.762	834.382
52.5	849.712	833.652	828.542	826.352	821.243
53.0	836.572	820.513	815.403	813.213	808.103
53.5	822.703	807.373	802.263	800.073	794.963
54.0	809.563	794.233	789.853	787.663	781.823
54.5	796.423	781.823	776.713	774.523	768.683

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55.0	783.283	769.413	764.303	762.113	756.273
55.5	770.873	756.273	751.163	748.973	743.863
56.0	757.003	743.133	738.023	736.563	730.723
56.5	743.863	730.723	725.248	723.642	717.875
57.0	731.453	717.583	712.327	710.576	705.101
57.5	718.605	704.882	699.480	697.874	692.180
58.0	705.758	692.326	686.559	685.099	679.405
58.5	692.837	679.697	673.857	672.543	667.141
59.0	680.135	666.995	661.082	659.841	654.658
59.5	667.798	654.147	648.088	647.212	642.321
60.0	655.169	641.372	635.240	634.510	629.765
60.5	642.686	628.889	622.830	621.735	617.063
61.0	630.422	616.406	610.493	609.252	604.654
61.5	617.282	604.070	598.230	596.843	592.390
62.0	604.362	591.368	585.528	584.506	579.834
62.5	591.149	579.615	573.556	572.753	567.935
63.0	578.447	569.249	564.358	563.993	560.051
63.5	565.599	557.934	554.065	553.262	549.174
64.0	557.861	546.911	543.407	541.801	537.129
64.5	545.816	535.158	531.362	529.902	525.522
65.0	532.311	522.602	519.463	518.076	513.842
65.5	518.514	509.900	507.053	506.396	502.089
66.0	505.228	497.491	494.935	494.644	490.045
66.5	492.088	484.789	482.599	482.599	478.511
67.0	479.095	472.160	470.408	470.627	466.904
67.5	466.320	459.750	458.144	458.582	454.932
68.0	453.399	447.340	445.880	446.464	442.668
68.5	440.405	434.711	433.543	434.346	430.623
69.0	426.973	422.009	421.133	421.571	418.140
69.5	413.906	409.526	408.504	409.015	405.876
70.0	400.985	396.897	396.167	396.386	393.612
70.5	388.283	384.196	383.685	383.904	381.276
71.0	375.290	371.567	371.421	371.713	368.866
71.5	362.296	358.938	359.230	359.449	356.967
72.0	349.667	346.236	346.820	347.112	344.995
72.5	337.038	333.753	334.702	334.994	333.242
73.0	324.555	321.562	322.876	323.241	321.708
73.5	312.437	309.517	311.050	311.707	310.028
74.0	300.465	297.472	299.370	299.881	298.786
74.5	288.493	285.646	287.763	288.274	287.471
75.0	276.448	273.894	276.303	276.814	276.156
75.5	264.550	262.141	264.915	265.572	264.842
76.0	252.505	250.826	253.673	254.403	253.819
76.5	241.117	239.657	242.504	243.307	242.796
77.0	230.021	228.415	231.554	232.284	231.481
77.5	218.560	217.465	220.604	221.188	220.385
78.0	207.391	206.515	209.654	210.530	209.727
78.5	196.295	195.857	198.850	199.872	199.215
79.0	185.637	185.199	188.265	189.506	188.995
79.5	174.979	174.760	177.826	179.140	178.702
80.0	164.468	164.540	167.387	169.212	168.628
80.5	153.883	154.540	157.460	159.212	158.774
81.0	143.736	144.758	147.605	149.430	149.138
81.5	133.954	135.049	137.969	139.794	139.575
82.0	124.829	125.559	128.552	130.450	130.231
82.5	115.704	116.361	119.281	121.179	121.033

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83.0	106.579	107.601	110.156	112.127	112.273
83.5	97.600	98.841	101.323	103.221	103.659
84.0	89.205	90.227	92.563	94.388	95.045
84.5	80.664	81.759	83.949	85.774	86.431
85.0	72.707	73.583	75.627	77.233	77.817
85.5	64.969	65.407	67.159	68.838	69.422
86.0	57.377	57.523	59.056	60.589	61.319
86.5	49.859	49.859	51.246	52.632	53.290
87.0	42.267	42.267	43.289	45.041	45.552
87.5	34.748	34.821	35.770	37.522	38.179
88.0	27.594	27.521	28.470	30.368	31.098
88.5	20.732	20.294	21.535	23.214	24.236
89.0	13.432	13.213	14.892	16.498	17.593
89.5	6.205	7.373	8.906	10.147	10.512
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.478	2.360	2.179	2.118	2.300
91.0	9.864	5.204	4.236	4.175	4.115
91.5	15.855	10.590	6.293	6.233	6.172
92.0	21.906	17.610	9.077	8.109	8.109
92.5	28.199	24.871	14.039	10.166	9.985
93.0	34.735	31.830	19.849	13.495	12.163
93.5	41.331	38.487	26.081	18.215	15.855
94.0	47.806	45.022	32.980	23.842	20.877
94.5	54.463	51.558	40.181	29.652	26.324
95.0	60.998	58.275	47.261	35.582	31.709
95.5	67.534	64.568	54.160	41.694	37.398
96.0	73.766	70.983	60.937	48.048	43.207
96.5	80.060	77.397	67.715	54.523	49.198
97.0	86.172	83.691	74.432	60.998	55.552
97.5	92.465	90.045	81.210	67.594	61.906
98.0	98.698	96.278	87.806	74.130	68.320
98.5	104.931	102.571	94.160	80.786	74.735
99.0	111.285	109.046	100.635	87.140	81.210
99.5	117.700	115.461	107.170	93.494	87.564
100.0	123.993	121.935	113.706	100.029	93.797
100.5	130.528	128.410	120.241	106.807	100.090
101.0	137.246	134.885	126.898	113.645	106.928
101.5	144.084	141.481	133.675	120.483	114.008
102.0	150.740	148.320	140.453	127.321	121.028
102.5	157.699	155.097	147.472	134.159	127.987
103.0	164.840	162.117	154.431	140.937	135.067
103.5	171.980	169.257	161.814	148.199	142.087
104.0	179.303	176.459	169.318	155.702	149.409
104.5	186.867	183.962	176.822	163.388	156.731
105.0	194.613	191.648	184.265	170.952	164.174
105.5	202.540	199.454	191.950	178.577	171.557
106.0	210.588	207.321	199.756	186.322	178.940
106.5	218.697	215.429	207.926	194.129	186.383
107.0	227.351	223.901	216.640	202.419	194.492
107.5	236.307	232.615	225.475	211.193	203.266
108.0	245.202	241.571	234.491	220.694	212.283
108.5	254.582	250.709	243.508	230.195	221.602
109.0	264.204	260.028	252.767	239.817	231.042
109.5	274.067	269.710	262.509	249.378	240.603
110.0	284.597	279.635	272.494	259.181	250.588
110.5	295.368	289.801	282.721	269.710	260.936

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111.0	306.261	300.451	293.311	280.663	271.344
111.5	317.395	311.405	304.082	291.798	282.055
112.0	328.954	322.660	314.793	302.933	292.282
112.5	340.572	334.218	325.625	314.007	303.114
113.0	352.735	346.139	337.062	325.444	314.430
113.5	365.262	358.605	349.165	337.789	326.593
114.0	377.970	371.313	361.994	350.920	340.088
114.5	391.101	384.445	375.065	364.596	354.430
115.0	404.414	397.939	388.620	378.393	368.953
115.5	418.333	411.555	402.538	392.130	383.295
116.0	432.372	425.715	416.941	406.593	397.879
116.5	447.198	440.239	431.827	421.419	413.431
117.0	462.629	455.064	446.835	437.394	429.467
117.5	474.005	466.623	460.571	452.099	445.745
118.0	488.529	480.117	474.671	467.288	460.208
118.5	505.412	496.214	489.073	481.388	473.219
119.0	521.932	512.069	505.412	497.364	487.681
119.5	538.634	528.952	522.719	513.581	503.899
120.0	555.881	546.440	540.087	531.312	521.025
120.5	573.006	564.171	557.999	550.132	539.300
121.0	590.979	582.265	576.032	568.891	558.725
121.5	608.770	600.177	594.004	587.892	577.726
122.0	627.529	618.452	613.006	606.954	596.788
122.5	645.683	636.606	631.765	625.714	614.821
123.0	664.443	655.971	651.130	646.288	634.791
123.5	683.807	675.335	671.704	666.863	655.365
124.0	703.171	695.305	691.674	687.438	676.545
124.5	722.536	714.669	711.643	707.407	697.120
125.0	741.900	734.034	731.008	727.377	717.090
125.5	761.870	754.003	750.977	747.347	736.454
126.0	781.234	773.368	771.552	767.316	755.819
126.5	800.599	792.732	792.127	788.496	776.393
127.0	820.568	812.702	812.702	809.676	798.178
127.5	840.538	832.066	832.066	830.251	819.963
128.0	859.902	851.431	852.036	850.825	840.538
128.5	879.267	870.190	871.400	871.400	860.508
129.0	898.631	888.949	890.765	891.370	881.082
129.5	917.996	908.314	910.734	911.944	902.262
130.0	937.360	927.678	930.704	932.519	924.652
130.5	956.725	946.437	951.278	952.489	945.832
131.0	976.089	965.197	970.643	971.853	965.197
131.5	994.243	983.351	990.007	990.007	983.956
132.0	1013.003	1001.505	1008.767	1009.372	1002.110
132.5	1031.157	1020.264	1027.526	1028.131	1020.264
133.0	1049.311	1039.024	1045.680	1046.890	1037.813
133.5	1067.465	1057.178	1064.439	1065.650	1056.573
134.0	1085.619	1074.727	1081.988	1083.804	1074.727
134.5	1101.958	1092.276	1098.932	1100.143	1092.276
135.0	1118.297	1109.220	1115.271	1116.481	1108.009
135.5	1134.030	1126.769	1131.610	1132.215	1123.743
136.0	1149.764	1143.107	1146.738	1148.554	1140.082
136.5	1166.103	1158.841	1161.867	1164.892	1157.026
137.0	1181.231	1174.575	1177.600	1180.021	1172.759
137.5	1196.360	1189.098	1192.124	1193.939	1186.677
138.0	1210.883	1203.621	1206.042	1207.252	1199.991
138.5	1225.406	1217.540	1219.960	1220.565	1212.698

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

139.0	1239.325	1231.458	1233.878	1233.878	1225.406
139.5	1253.243	1245.376	1247.191	1246.586	1237.509
140.0	1266.556	1258.084	1260.504	1259.899	1250.822
140.5	1279.264	1270.187	1272.607	1272.002	1262.320
141.0	1291.972	1282.895	1284.710	1283.500	1273.817
141.5	1303.469	1294.392	1296.813	1294.997	1284.105
142.0	1315.572	1306.495	1308.310	1305.890	1294.997
142.5	1327.070	1317.993	1319.808	1317.387	1305.285
143.0	1338.567	1328.885	1330.701	1328.280	1316.177
143.5	1349.460	1340.383	1341.593	1339.172	1326.465
144.0	1359.747	1351.275	1351.880	1348.855	1336.147
144.5	1370.035	1361.563	1362.168	1358.537	1345.829
145.0	1379.717	1371.850	1371.850	1367.614	1354.906
145.5	1390.004	1382.137	1381.532	1377.901	1364.588
146.0	1399.686	1391.820	1391.214	1386.978	1374.271
146.5	1409.369	1401.502	1400.292	1396.661	1383.953
147.0	1418.446	1411.184	1408.763	1406.343	1393.635
147.5	1427.523	1420.261	1417.841	1415.420	1402.712
148.0	1436.600	1429.338	1425.707	1423.892	1412.394
148.5	1445.677	1438.415	1433.574	1432.364	1422.077
149.0	1454.149	1447.492	1441.441	1440.836	1431.759
149.5	1462.621	1455.964	1448.703	1449.308	1440.836
150.0	1471.093	1464.436	1456.569	1457.175	1449.308
150.5	1479.565	1472.908	1463.831	1464.436	1457.780
151.0	1487.432	1480.775	1471.093	1471.698	1465.647
151.5	1495.903	1488.642	1478.960	1478.960	1472.908
152.0	1503.770	1496.509	1486.221	1485.616	1480.170
152.5	1511.637	1503.770	1493.483	1492.878	1486.826
153.0	1519.504	1511.032	1500.745	1500.139	1492.878
153.5	1526.766	1518.294	1508.006	1507.401	1498.324
154.0	1534.027	1525.555	1515.873	1514.663	1504.375
154.5	1541.894	1532.212	1523.135	1521.319	1510.427
155.0	1549.156	1538.868	1530.396	1528.581	1517.083
155.5	1555.812	1544.920	1537.658	1535.843	1523.740
156.0	1562.469	1551.576	1545.525	1542.499	1530.396
156.5	1569.125	1558.233	1552.787	1549.761	1537.053
157.0	1575.782	1564.889	1560.048	1557.023	1543.709
157.5	1581.833	1570.941	1566.705	1563.679	1550.366
158.0	1587.885	1576.992	1573.361	1570.336	1557.023
158.5	1594.541	1583.649	1580.018	1576.992	1564.284
159.0	1599.987	1589.700	1586.069	1583.649	1570.941
159.5	1606.039	1595.751	1592.121	1590.305	1577.597
160.0	1611.485	1601.198	1598.172	1596.357	1584.254
160.5	1616.931	1606.644	1603.618	1602.408	1590.910
161.0	1622.378	1612.090	1609.064	1608.459	1597.567
161.5	1627.824	1618.142	1613.906	1614.511	1604.223
162.0	1633.875	1623.588	1618.747	1620.562	1610.275
162.5	1639.321	1629.034	1623.588	1626.008	1615.721
163.0	1644.768	1634.480	1628.429	1631.455	1621.167
163.5	1650.214	1639.321	1633.270	1636.901	1626.008
164.0	1655.660	1644.163	1637.506	1641.742	1630.849
164.5	1659.896	1649.004	1641.742	1646.583	1635.691
165.0	1664.737	1653.845	1645.978	1651.424	1639.927
165.5	1669.578	1658.081	1650.214	1655.660	1644.163
166.0	1674.419	1662.317	1654.450	1659.896	1647.793
166.5	1679.261	1666.553	1658.686	1663.527	1652.029

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

167.0	1683.497	1670.184	1662.317	1667.158	1655.660
167.5	1687.733	1673.814	1666.553	1670.789	1659.896
168.0	1691.969	1677.445	1670.184	1674.419	1663.527
168.5	1696.204	1681.076	1673.814	1678.050	1667.763
169.0	1699.835	1684.102	1677.445	1681.076	1671.394
169.5	1702.861	1687.127	1680.471	1684.102	1675.025
170.0	1705.887	1690.153	1683.497	1687.127	1679.261
170.5	1708.912	1693.179	1685.917	1690.153	1682.286
171.0	1711.938	1695.599	1688.338	1693.179	1685.312
171.5	1714.359	1698.020	1690.758	1696.204	1688.338
172.0	1716.779	1700.440	1692.574	1698.625	1690.758
172.5	1719.200	1702.861	1694.389	1700.440	1692.574
173.0	1721.620	1705.282	1696.204	1702.861	1693.784
173.5	1723.436	1707.097	1698.020	1704.071	1694.994
174.0	1725.251	1708.912	1699.835	1705.282	1695.599
174.5	1726.461	1710.123	1701.046	1706.492	1696.204
175.0	1727.672	1711.938	1702.256	1707.097	1696.204
175.5	1728.882	1713.148	1704.071	1707.702	1696.810
176.0	1730.092	1714.359	1705.282	1707.702	1696.810
176.5	1730.697	1715.569	1705.887	1708.307	1696.810
177.0	1731.303	1716.779	1707.097	1708.307	1696.204
177.5	1732.513	1717.989	1708.307	1708.307	1696.204
178.0	1733.118	1717.989	1708.912	1708.307	1696.810
178.5	1733.118	1718.595	1709.518	1708.307	1696.810
179.0	1733.723	1719.200	1709.518	1708.307	1696.810
179.5	1734.328	1719.200	1710.123	1708.307	1696.810
180.0	1713.148	1713.148	1713.148	1713.148	1713.148

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

Zone	Lumens	%Lamp	%Fixt
0-20	628.96	N.A.	7.10
0-30	1314.93	N.A.	14.90
0-40	2112.46	N.A.	24.00
0-60	3589.54	N.A.	40.70
0-80	4395.79	N.A.	49.90
0-90	4480.99	N.A.	50.80
10-90	4316.81	N.A.	49.00
20-40	1483.5	N.A.	16.80
20-50	2275.2	N.A.	25.80
40-70	1990.42	N.A.	22.60
60-80	806.25	N.A.	9.10
70-80	292.92	N.A.	3.30
80-90	85.19	N.A.	1.00
90-110	247.92	N.A.	2.80
90-120	636.44	N.A.	7.20
90-130	1289.32	N.A.	14.60
90-150	2998.86	N.A.	34.00
90-180	4334.15	N.A.	49.20
110-180	4086.23	N.A.	46.40
0-180	8815.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.17
10-20	464.79
20-30	685.98
30-40	797.53
40-50	791.70
50-60	685.38
60-70	513.33
70-80	292.92
80-90	85.19
90-100	53.47
100-110	194.45
110-120	388.52
120-130	652.88
130-140	853.70
140-150	855.84
150-160	706.96
160-170	465.86
170-180	162.46

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-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	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-L12-950U-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	16.5	17.4	17.5	18.4	19.6	UGR Viewed Endwise			
	3H	18.3	19.1	19.3	20.1	21.3	16.4	17.3	17.4	18.3
	4H	18.9	19.7	19.9	20.6	21.9	18.2	19.0	19.2	20.0
	6H	19.3	20.0	20.3	21.0	22.3	18.8	19.6	19.8	20.6
	8H	19.5	20.1	20.5	21.1	22.4	19.3	20.0	20.3	21.0
	12H	19.6	20.2	20.6	21.2	22.5	19.4	20.1	20.4	21.1

4H	2H	17.1	17.8	18.0	18.8	20.1	19.5	20.2	20.5	21.2
	3H	19.0	19.7	20.0	20.7	22.0	16.4	17.3	17.4	18.3
	4H	19.8	20.3	20.8	21.3	22.7	18.2	19.0	19.2	20.0
	6H	20.3	20.8	21.3	21.8	23.2	18.8	19.6	19.8	20.6
	8H	20.5	21.0	21.5	22.0	23.3	19.3	20.0	20.3	21.0
	12H	20.6	21.0	21.6	22.1	23.4	19.4	20.1	20.4	21.1

8H	4H	20.0	20.5	21.0	21.5	22.8	20.5	21.0	21.5	22.0
	6H	20.7	21.1	21.7	22.1	23.5	20.6	21.1	21.7	22.1
	8H	21.0	21.3	22.0	22.3	23.7	19.3	20.0	20.3	21.0
	12H	21.2	21.5	22.2	22.5	23.9	19.4	20.1	20.4	21.1

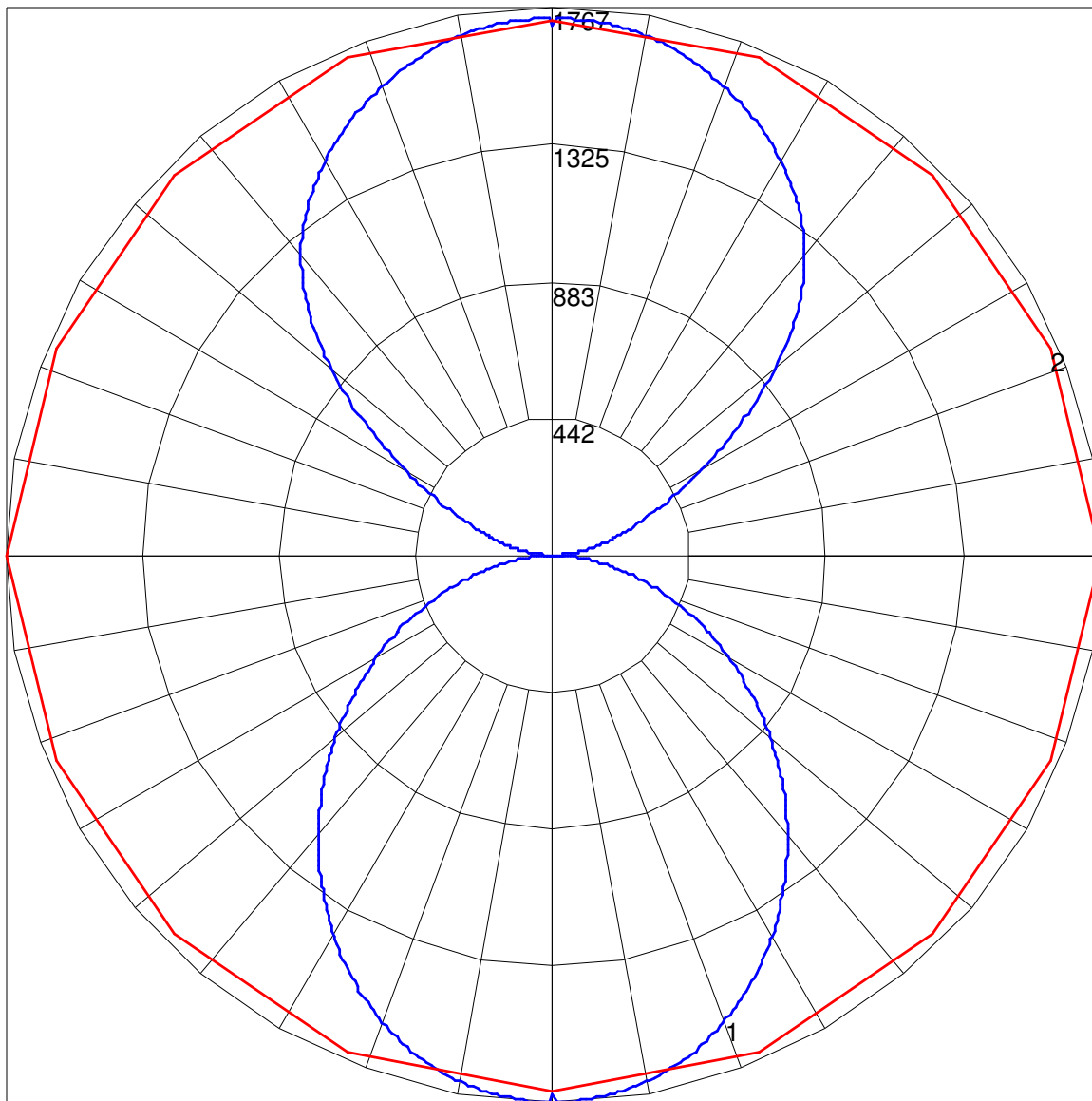
12H	4H	20.0	20.4	21.0	21.5	22.8	20.5	21.0	21.5	22.0
	6H	20.8	21.1	21.8	22.1	23.5	20.6	21.1	21.7	22.1
	8H	21.0	21.3	22.1	22.4	23.8	19.3	20.0	20.3	21.0

Maximum UGR = 23.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L12-950D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1766.584 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.)