

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-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-L15-930U-L12-930D-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	9121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	92.4
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	12257	11950	11814
55	11267	10994	10879
65	10392	10141	10032
75	8813	8808	8803
85	6883	7159	7367

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-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	1778.516	1778.516	1778.516	1778.516	1778.516
0.5	1805.372	1780.008	1771.055	1774.785	1768.817
1.0	1805.372	1779.262	1771.055	1774.785	1768.817
1.5	1804.626	1778.516	1770.309	1774.785	1768.071
2.0	1803.880	1777.770	1769.563	1774.039	1768.071
2.5	1803.134	1777.024	1768.071	1773.293	1767.325
3.0	1801.642	1775.531	1767.325	1772.547	1765.833
3.5	1800.150	1774.039	1765.833	1771.055	1764.341
4.0	1798.658	1772.547	1764.341	1769.563	1762.849
4.5	1797.166	1770.309	1762.849	1768.071	1760.611
5.0	1795.674	1768.817	1760.611	1765.833	1758.373
5.5	1793.436	1766.579	1758.373	1763.595	1756.135
6.0	1791.198	1763.595	1756.135	1761.357	1753.151
6.5	1788.214	1761.357	1753.151	1758.373	1750.913
7.0	1785.976	1758.373	1750.913	1755.389	1747.929
7.5	1783.738	1755.389	1747.929	1752.405	1745.691
8.0	1780.008	1752.405	1744.199	1749.421	1742.707
8.5	1777.024	1748.675	1740.468	1745.691	1738.976
9.0	1773.293	1745.691	1737.484	1741.961	1735.246
9.5	1769.563	1741.961	1733.008	1737.484	1731.516
10.0	1765.833	1738.230	1729.278	1733.754	1727.040
10.5	1761.357	1733.754	1724.802	1729.278	1723.310
11.0	1757.627	1729.278	1720.326	1724.802	1718.088
11.5	1752.405	1724.802	1715.850	1720.326	1713.612
12.0	1747.929	1720.326	1711.374	1715.104	1708.390
12.5	1743.453	1715.104	1706.151	1709.882	1703.167
13.0	1738.230	1710.628	1700.929	1704.659	1697.945
13.5	1733.008	1704.659	1695.707	1698.691	1692.723
14.0	1727.786	1699.437	1689.739	1693.469	1687.501
14.5	1722.564	1694.215	1683.771	1687.501	1681.533
15.0	1717.342	1688.247	1677.803	1681.533	1675.565
15.5	1710.628	1683.025	1671.834	1674.819	1668.850
16.0	1703.167	1677.057	1665.120	1668.850	1662.882
16.5	1695.707	1670.342	1658.406	1662.136	1656.168
17.0	1688.993	1663.628	1651.692	1655.422	1649.454
17.5	1681.533	1656.168	1644.232	1647.962	1641.994
18.0	1674.073	1648.708	1636.771	1640.502	1634.533
18.5	1666.612	1641.248	1629.311	1632.295	1627.073
19.0	1659.152	1633.787	1622.597	1624.835	1618.121
19.5	1650.946	1626.327	1615.137	1615.883	1609.169
20.0	1643.486	1618.121	1608.423	1607.677	1600.216
20.5	1635.279	1610.661	1600.962	1598.724	1591.264
21.0	1627.073	1602.454	1592.756	1589.772	1581.566
21.5	1618.121	1594.248	1583.804	1580.820	1571.868
22.0	1609.915	1585.296	1574.106	1571.122	1562.915
22.5	1600.962	1576.344	1565.153	1561.423	1553.217
23.0	1592.010	1567.391	1556.201	1550.979	1543.519
23.5	1583.058	1558.439	1546.503	1541.281	1534.566
24.0	1573.360	1549.487	1537.551	1531.582	1524.868
24.5	1563.661	1539.789	1527.852	1521.884	1515.170
25.0	1554.709	1530.090	1518.154	1512.186	1505.472
25.5	1545.011	1520.392	1507.710	1502.488	1495.027
26.0	1534.566	1509.948	1498.011	1492.789	1485.329
26.5	1524.868	1500.249	1487.567	1483.091	1475.631

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1514.424	1489.805	1477.123	1473.393	1465.186
27.5	1503.980	1479.361	1467.425	1463.694	1455.488
28.0	1493.535	1468.171	1456.234	1453.250	1445.044
28.5	1482.345	1456.980	1445.790	1443.552	1434.600
29.0	1471.155	1446.536	1435.346	1433.108	1424.155
29.5	1460.710	1435.346	1424.901	1421.917	1414.457
30.0	1449.520	1424.155	1414.457	1411.473	1404.013
30.5	1438.330	1412.965	1403.267	1401.029	1393.568
31.0	1426.393	1402.521	1392.076	1389.838	1383.124
31.5	1415.203	1391.330	1380.886	1378.648	1371.934
32.0	1403.267	1379.394	1369.696	1366.712	1360.743
32.5	1391.330	1368.204	1358.505	1355.521	1348.807
33.0	1379.394	1357.013	1347.315	1344.331	1336.871
33.5	1368.204	1345.077	1335.379	1332.395	1325.680
34.0	1355.521	1333.141	1324.188	1320.458	1313.744
34.5	1343.585	1321.204	1311.506	1308.522	1301.062
35.0	1331.649	1310.014	1299.570	1296.586	1288.379
35.5	1318.966	1297.332	1287.633	1284.649	1275.697
36.0	1306.284	1285.395	1275.697	1271.967	1263.761
36.5	1294.348	1273.459	1263.761	1260.031	1251.824
37.0	1281.665	1260.777	1251.078	1247.348	1239.142
37.5	1268.983	1248.094	1239.142	1234.666	1227.206
38.0	1255.554	1235.412	1226.460	1221.983	1214.523
38.5	1242.872	1222.729	1213.777	1210.047	1201.841
39.0	1230.936	1210.047	1201.095	1197.365	1189.904
39.5	1217.507	1197.365	1189.158	1184.682	1176.476
40.0	1204.825	1183.936	1176.476	1172.000	1164.540
40.5	1191.397	1171.254	1163.794	1159.318	1151.857
41.0	1178.714	1157.826	1151.111	1145.889	1138.429
41.5	1165.286	1145.143	1137.683	1133.207	1125.001
42.0	1152.603	1131.715	1125.001	1120.524	1112.318
42.5	1139.921	1119.032	1112.318	1107.096	1099.636
43.0	1126.493	1106.350	1099.636	1094.414	1086.207
43.5	1113.810	1092.922	1086.207	1081.731	1073.525
44.0	1100.382	1079.493	1072.779	1068.303	1060.843
44.5	1086.954	1066.065	1059.351	1054.875	1047.414
45.0	1073.525	1053.383	1046.668	1041.446	1034.732
45.5	1060.843	1039.954	1033.240	1028.764	1022.050
46.0	1047.414	1026.526	1019.812	1015.335	1009.367
46.5	1033.986	1013.097	1007.129	1002.653	996.685
47.0	1020.558	999.669	993.701	989.225	983.257
47.5	1006.383	986.241	980.272	975.796	970.574
48.0	992.955	972.812	966.844	963.114	957.146
48.5	979.526	959.384	954.162	949.686	943.717
49.0	965.352	945.955	940.733	936.257	931.035
49.5	951.924	932.527	927.305	923.575	918.353
50.0	937.749	919.099	913.876	910.146	904.924
50.5	923.575	905.670	900.448	896.718	892.242
51.0	909.400	892.242	887.020	883.290	878.813
51.5	895.972	878.813	873.591	870.607	865.385
52.0	882.544	865.385	860.163	857.179	852.703
52.5	868.369	851.957	846.735	844.496	839.274
53.0	854.941	838.528	833.306	831.068	825.846
53.5	840.766	825.100	819.878	817.640	812.418
54.0	827.338	811.672	807.195	804.957	798.989
54.5	813.910	798.989	793.767	791.529	785.561

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55.0	800.481	786.307	781.085	778.847	772.878
55.5	787.799	772.878	767.656	765.418	760.196
56.0	773.624	759.450	754.228	752.736	746.768
56.5	760.196	746.768	741.172	739.531	733.638
57.0	747.514	733.339	727.968	726.177	720.582
57.5	734.384	720.358	714.838	713.197	707.378
58.0	721.254	707.527	701.633	700.141	694.322
58.5	708.049	694.621	688.653	687.310	681.789
59.0	695.068	681.640	675.597	674.329	669.032
59.5	682.461	668.510	662.318	661.423	656.424
60.0	669.554	655.455	649.188	648.442	643.593
60.5	656.797	642.698	636.506	635.387	630.612
61.0	644.264	629.941	623.898	622.630	617.930
61.5	630.836	617.333	611.365	609.947	605.397
62.0	617.631	604.352	598.384	597.340	592.565
62.5	604.128	592.341	586.149	585.329	580.405
63.0	591.148	581.748	576.749	576.376	572.348
63.5	578.018	570.184	566.230	565.410	561.232
64.0	570.110	558.919	555.339	553.697	548.923
64.5	557.800	546.908	543.029	541.537	537.061
65.0	543.999	534.077	530.869	529.452	525.125
65.5	529.899	521.096	518.187	517.515	513.114
66.0	516.322	508.414	505.803	505.504	500.804
66.5	502.893	495.433	493.195	493.195	489.017
67.0	489.614	482.527	480.736	480.960	477.155
67.5	476.559	469.844	468.203	468.651	464.921
68.0	463.354	457.162	455.670	456.267	452.388
68.5	450.075	444.256	443.062	443.883	440.078
69.0	436.348	431.275	430.380	430.827	427.321
69.5	422.994	418.518	417.474	417.996	414.788
70.0	409.790	405.612	404.866	405.090	402.255
70.5	396.809	392.631	392.109	392.333	389.647
71.0	383.530	379.725	379.576	379.874	376.965
71.5	370.251	366.819	367.117	367.341	364.805
72.0	357.344	353.838	354.435	354.733	352.570
72.5	344.438	341.081	342.051	342.349	340.559
73.0	331.681	328.623	329.965	330.338	328.772
73.5	319.297	316.313	317.880	318.551	316.835
74.0	307.063	304.004	305.943	306.466	305.347
74.5	294.828	291.918	294.082	294.604	293.783
75.0	282.518	279.907	282.369	282.891	282.220
75.5	270.358	267.896	270.731	271.403	270.657
76.0	258.049	256.333	259.243	259.989	259.392
76.5	246.411	244.919	247.828	248.649	248.127
77.0	235.071	233.430	236.638	237.384	236.563
77.5	223.359	222.240	225.448	226.045	225.224
78.0	211.945	211.050	214.257	215.153	214.332
78.5	200.605	200.158	203.216	204.261	203.589
79.0	189.713	189.266	192.399	193.667	193.145
79.5	178.821	178.598	181.731	183.074	182.626
80.0	168.079	168.153	171.063	172.928	172.331
80.5	157.261	157.933	160.917	162.707	162.260
81.0	146.892	147.936	150.846	152.711	152.412
81.5	136.895	138.014	140.998	142.863	142.639
82.0	127.570	128.316	131.374	133.314	133.090
82.5	118.244	118.916	121.900	123.840	123.690

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83.0	108.919	109.964	112.575	114.589	114.738
83.5	99.743	101.011	103.548	105.487	105.935
84.0	91.164	92.208	94.596	96.461	97.132
84.5	82.435	83.554	85.792	87.658	88.329
85.0	74.304	75.199	77.288	78.929	79.526
85.5	66.396	66.844	68.634	70.350	70.947
86.0	58.637	58.787	60.353	61.920	62.666
86.5	50.953	50.953	52.371	53.788	54.460
87.0	43.195	43.195	44.239	46.030	46.552
87.5	35.511	35.585	36.555	38.346	39.017
88.0	28.200	28.125	29.095	31.034	31.781
88.5	21.187	20.739	22.008	23.723	24.768
89.0	13.727	13.503	15.219	16.860	17.979
89.5	6.341	7.535	9.101	10.370	10.743
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.692	2.473	2.283	2.219	2.410
91.0	10.336	5.453	4.439	4.375	4.312
91.5	16.614	11.097	6.595	6.531	6.468
92.0	22.955	18.453	9.512	8.497	8.497
92.5	29.550	26.062	14.712	10.653	10.463
93.0	36.398	33.355	20.799	14.141	12.746
93.5	43.310	40.330	27.331	19.087	16.614
94.0	50.095	47.178	34.559	24.984	21.877
94.5	57.071	54.027	42.105	31.072	27.584
95.0	63.919	61.066	49.525	37.286	33.228
95.5	70.768	67.660	56.754	43.691	39.189
96.0	77.299	74.382	63.856	50.349	45.276
96.5	83.894	81.104	70.958	57.134	51.554
97.0	90.298	87.699	77.997	63.919	58.212
97.5	96.893	94.357	85.099	70.831	64.870
98.0	103.425	100.888	92.011	77.680	71.592
98.5	109.956	107.483	98.669	84.655	78.314
99.0	116.614	114.268	105.454	91.313	85.099
99.5	123.336	120.990	112.302	97.971	91.757
100.0	129.931	127.775	119.151	104.820	98.288
100.5	136.779	134.560	125.999	111.922	104.883
101.0	143.818	141.345	132.975	119.087	112.049
101.5	150.984	148.257	140.077	126.253	119.468
102.0	157.959	155.422	147.179	133.419	126.824
102.5	165.251	162.525	154.535	140.584	134.116
103.0	172.734	169.880	161.827	147.686	141.535
103.5	180.216	177.363	169.563	155.296	148.891
104.0	187.889	184.909	177.426	163.159	156.564
104.5	195.816	192.772	185.289	171.212	164.237
105.0	203.932	200.825	193.089	179.138	172.036
105.5	212.239	209.005	201.142	187.128	179.773
106.0	220.673	217.249	209.322	195.245	187.509
106.5	229.170	225.746	217.883	203.425	195.308
107.0	238.238	234.624	227.014	212.113	203.806
107.5	247.623	243.755	236.273	221.307	213.000
108.0	256.945	253.140	245.721	231.263	222.449
108.5	266.774	262.715	255.169	241.219	232.214
109.0	276.856	272.481	264.871	251.301	242.106
109.5	287.192	282.627	275.081	261.320	252.125
110.0	298.226	293.026	285.544	271.593	262.588
110.5	309.513	303.679	296.260	282.627	273.432

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111.0	320.927	314.840	307.357	294.104	284.339
111.5	332.595	326.317	318.644	305.772	295.563
112.0	344.707	338.112	329.868	317.440	306.279
112.5	356.882	350.224	341.219	329.044	317.630
113.0	369.628	362.716	353.204	341.029	329.488
113.5	382.754	375.779	365.886	353.965	342.234
114.0	396.070	389.095	379.330	367.725	356.375
114.5	409.831	402.855	393.027	382.056	371.403
115.0	423.781	416.996	407.231	396.514	386.622
115.5	438.366	431.264	421.816	410.909	401.651
116.0	453.078	446.102	436.908	426.064	416.933
116.5	468.613	461.321	452.507	441.600	433.230
117.0	484.784	476.857	468.233	458.341	450.034
117.5	496.705	488.969	482.628	473.750	467.092
118.0	511.924	503.110	497.402	489.666	482.247
118.5	529.616	519.977	512.494	504.441	495.881
119.0	546.927	536.591	529.616	521.182	511.036
119.5	564.429	554.283	547.751	538.176	528.030
120.0	582.501	572.609	565.951	556.756	545.976
120.5	600.447	591.189	584.721	576.477	565.126
121.0	619.280	610.149	603.617	596.135	585.482
121.5	637.923	628.919	622.451	616.046	605.393
122.0	657.581	648.069	642.362	636.021	625.368
122.5	676.604	667.093	662.020	655.678	644.264
123.0	696.262	687.384	682.311	677.238	665.190
123.5	716.554	707.676	703.871	698.798	686.750
124.0	736.846	728.602	724.797	720.358	708.944
124.5	757.137	748.894	745.723	741.284	730.504
125.0	777.429	769.186	766.015	762.210	751.430
125.5	798.355	790.112	786.941	783.136	771.722
126.0	818.647	810.403	808.501	804.062	792.014
126.5	838.939	830.695	830.061	826.256	813.574
127.0	859.865	851.621	851.621	848.450	836.402
127.5	880.790	871.913	871.913	870.010	859.230
128.0	901.082	892.205	892.839	891.570	880.790
128.5	921.374	911.862	913.130	913.130	901.716
129.0	941.666	931.520	933.422	934.056	923.276
129.5	961.958	951.812	954.348	955.616	945.471
130.0	982.249	972.103	975.274	977.176	968.933
130.5	1002.541	991.761	996.834	998.102	991.127
131.0	1022.833	1011.419	1017.126	1018.394	1011.419
131.5	1041.857	1030.442	1037.418	1037.418	1031.076
132.0	1061.514	1049.466	1057.075	1057.709	1050.100
132.5	1080.538	1069.124	1076.733	1077.367	1069.124
133.0	1099.561	1088.781	1095.757	1097.025	1087.513
133.5	1118.585	1107.805	1115.414	1116.682	1107.171
134.0	1137.608	1126.194	1133.804	1135.706	1126.194
134.5	1154.730	1144.584	1151.559	1152.827	1144.584
135.0	1171.851	1162.339	1168.680	1169.948	1161.071
135.5	1188.338	1180.728	1185.801	1186.435	1177.558
136.0	1204.825	1197.850	1201.654	1203.557	1194.679
136.5	1221.946	1214.337	1217.507	1220.678	1212.434
137.0	1237.799	1230.824	1233.994	1236.531	1228.921
137.5	1253.652	1246.043	1249.213	1251.116	1243.506
138.0	1268.871	1261.261	1263.798	1265.066	1257.457
138.5	1284.090	1275.846	1278.383	1279.017	1270.773

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1298.674	1290.431	1292.967	1292.967	1284.090
139.5	1313.259	1305.016	1306.918	1306.284	1296.772
140.0	1327.210	1318.332	1320.869	1320.234	1310.723
140.5	1340.526	1331.014	1333.551	1332.917	1322.771
141.0	1353.843	1344.331	1346.233	1344.965	1334.819
141.5	1365.891	1356.379	1358.916	1357.013	1345.599
142.0	1378.573	1369.062	1370.964	1368.427	1357.013
142.5	1390.622	1381.110	1383.012	1380.476	1367.793
143.0	1402.670	1392.524	1394.426	1391.890	1379.207
143.5	1414.084	1404.572	1405.840	1403.304	1389.987
144.0	1424.864	1415.986	1416.620	1413.450	1400.133
144.5	1435.644	1426.766	1427.400	1423.596	1410.279
145.0	1445.790	1437.546	1437.546	1433.108	1419.791
145.5	1456.570	1448.326	1447.692	1443.888	1429.937
146.0	1466.716	1458.472	1457.838	1453.399	1440.083
146.5	1476.862	1468.618	1467.350	1463.545	1450.229
147.0	1486.373	1478.764	1476.228	1473.691	1460.375
147.5	1495.885	1488.276	1485.739	1483.203	1469.886
148.0	1505.397	1497.788	1493.983	1492.081	1480.032
148.5	1514.909	1507.299	1502.226	1500.958	1490.178
149.0	1523.786	1516.811	1510.470	1509.836	1500.324
149.5	1532.664	1525.689	1518.079	1518.714	1509.836
150.0	1541.542	1534.566	1526.323	1526.957	1518.714
150.5	1550.419	1543.444	1533.932	1534.566	1527.591
151.0	1558.663	1551.688	1541.542	1542.176	1535.835
151.5	1567.541	1559.931	1549.785	1549.785	1543.444
152.0	1575.784	1568.175	1557.395	1556.761	1551.054
152.5	1584.028	1575.784	1565.004	1564.370	1558.029
153.0	1592.271	1583.394	1572.614	1571.979	1564.370
153.5	1599.881	1591.003	1580.223	1579.589	1570.077
154.0	1607.490	1598.612	1588.467	1587.198	1576.418
154.5	1615.734	1605.588	1596.076	1594.174	1582.759
155.0	1623.343	1612.563	1603.685	1601.783	1589.735
155.5	1630.318	1618.904	1611.295	1609.392	1596.710
156.0	1637.294	1625.880	1619.538	1616.368	1603.685
156.5	1644.269	1632.855	1627.148	1623.977	1610.661
157.0	1651.244	1639.830	1634.757	1631.587	1617.636
157.5	1657.585	1646.171	1641.732	1638.562	1624.611
158.0	1663.927	1652.513	1648.708	1645.537	1631.587
158.5	1670.902	1659.488	1655.683	1652.513	1639.196
159.0	1676.609	1665.829	1662.024	1659.488	1646.171
159.5	1682.950	1672.170	1668.365	1666.463	1653.147
160.0	1688.657	1677.877	1674.707	1672.804	1660.122
160.5	1694.364	1683.584	1680.414	1679.145	1667.097
161.0	1700.071	1689.291	1686.121	1685.487	1674.073
161.5	1705.778	1695.633	1691.194	1691.828	1681.048
162.0	1712.120	1701.340	1696.267	1698.169	1687.389
162.5	1717.827	1707.047	1701.340	1703.876	1693.096
163.0	1723.534	1712.754	1706.413	1709.583	1698.803
163.5	1729.241	1717.827	1711.486	1715.290	1703.876
164.0	1734.948	1722.900	1715.924	1720.363	1708.949
164.5	1739.387	1727.973	1720.363	1725.436	1714.022
165.0	1744.460	1733.046	1724.802	1730.509	1718.461
165.5	1749.533	1737.484	1729.241	1734.948	1722.900
166.0	1754.606	1741.923	1733.680	1739.387	1726.704
166.5	1759.679	1746.362	1738.118	1743.191	1731.143

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1764.117	1750.167	1741.923	1746.996	1734.948
167.5	1768.556	1753.971	1746.362	1750.801	1739.387
168.0	1772.995	1757.776	1750.167	1754.606	1743.191
168.5	1777.434	1761.581	1753.971	1758.410	1747.630
169.0	1781.239	1764.751	1757.776	1761.581	1751.435
169.5	1784.409	1767.922	1760.947	1764.751	1755.240
170.0	1787.580	1771.093	1764.117	1767.922	1759.679
170.5	1790.750	1774.263	1766.654	1771.093	1762.849
171.0	1793.921	1776.800	1769.190	1774.263	1766.020
171.5	1796.457	1779.336	1771.727	1777.434	1769.190
172.0	1798.994	1781.873	1773.629	1779.970	1771.727
172.5	1801.530	1784.409	1775.531	1781.873	1773.629
173.0	1804.067	1786.946	1777.434	1784.409	1774.897
173.5	1805.969	1788.848	1779.336	1785.677	1776.166
174.0	1807.872	1790.750	1781.239	1786.946	1776.800
174.5	1809.140	1792.019	1782.507	1788.214	1777.434
175.0	1810.408	1793.921	1783.775	1788.848	1777.434
175.5	1811.676	1795.189	1785.677	1789.482	1778.068
176.0	1812.944	1796.457	1786.946	1789.482	1778.068
176.5	1813.579	1797.726	1787.580	1790.116	1778.068
177.0	1814.213	1798.994	1788.848	1790.116	1777.434
177.5	1815.481	1800.262	1790.116	1790.116	1777.434
178.0	1816.115	1800.262	1790.750	1790.116	1778.068
178.5	1816.115	1800.896	1791.384	1790.116	1778.068
179.0	1816.749	1801.530	1791.384	1790.116	1778.068
179.5	1817.383	1801.530	1792.019	1790.116	1778.068
180.0	1795.189	1795.189	1795.189	1795.189	1795.189

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	642.77	N.A.	7.00
0-30	1343.8	N.A.	14.70
0-40	2158.84	N.A.	23.70
0-60	3668.35	N.A.	40.20
0-80	4492.31	N.A.	49.30
0-90	4579.37	N.A.	50.20
10-90	4411.6	N.A.	48.40
20-40	1516.07	N.A.	16.60
20-50	2325.16	N.A.	25.50
40-70	2034.12	N.A.	22.30
60-80	823.96	N.A.	9.00
70-80	299.35	N.A.	3.30
80-90	87.06	N.A.	1.00
90-110	259.80	N.A.	2.80
90-120	666.92	N.A.	7.30
90-130	1351.07	N.A.	14.80
90-150	3142.47	N.A.	34.50
90-180	4541.71	N.A.	49.80
110-180	4281.91	N.A.	46.90
0-180	9121.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.77
10-20	474.99
20-30	701.04
30-40	815.04
40-50	809.09
50-60	700.43
60-70	524.61
70-80	299.35
80-90	87.06
90-100	56.03
100-110	203.76
110-120	407.12
120-130	684.15
130-140	894.59
140-150	896.82
150-160	740.82
160-170	488.17
170-180	170.24

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-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	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	36	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-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	20.0	21.3	16.4	17.3	17.4	18.3
	4H	18.9	19.6	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	20.5
	8H	19.5	20.1	20.5	21.1	22.4	19.3	20.0	20.3	21.0
	12H	19.5	20.2	20.5	21.2	22.5	19.4	20.1	20.4	21.1

4H	2H	17.1	17.8	18.1	18.8	20.1	19.5	20.1	20.5	21.1	22.5
	3H	19.0	19.6	20.0	20.7	22.0	16.4	17.3	17.4	18.3	19.5
	4H	19.8	20.3	20.8	21.3	22.7	18.2	19.0	19.2	20.0	21.2
	6H	20.3	20.8	21.3	21.8	23.2	18.8	19.6	19.8	20.5	21.8
	8H	20.5	21.0	21.5	22.0	23.3	19.3	20.0	20.3	21.0	22.3
	12H	20.6	21.0	21.7	22.1	23.4	19.4	20.1	20.4	21.1	22.4

8H	4H	20.0	20.5	21.0	21.5	22.8	20.5	21.0	21.5	22.0	23.3
	6H	20.7	21.1	21.7	22.1	23.5	20.6	21.0	21.7	22.1	23.4
	8H	21.0	21.3	22.0	22.3	23.7	19.3	20.0	20.3	21.0	22.3
	12H	21.2	21.4	22.2	22.5	23.9	19.4	20.1	20.4	21.1	22.4

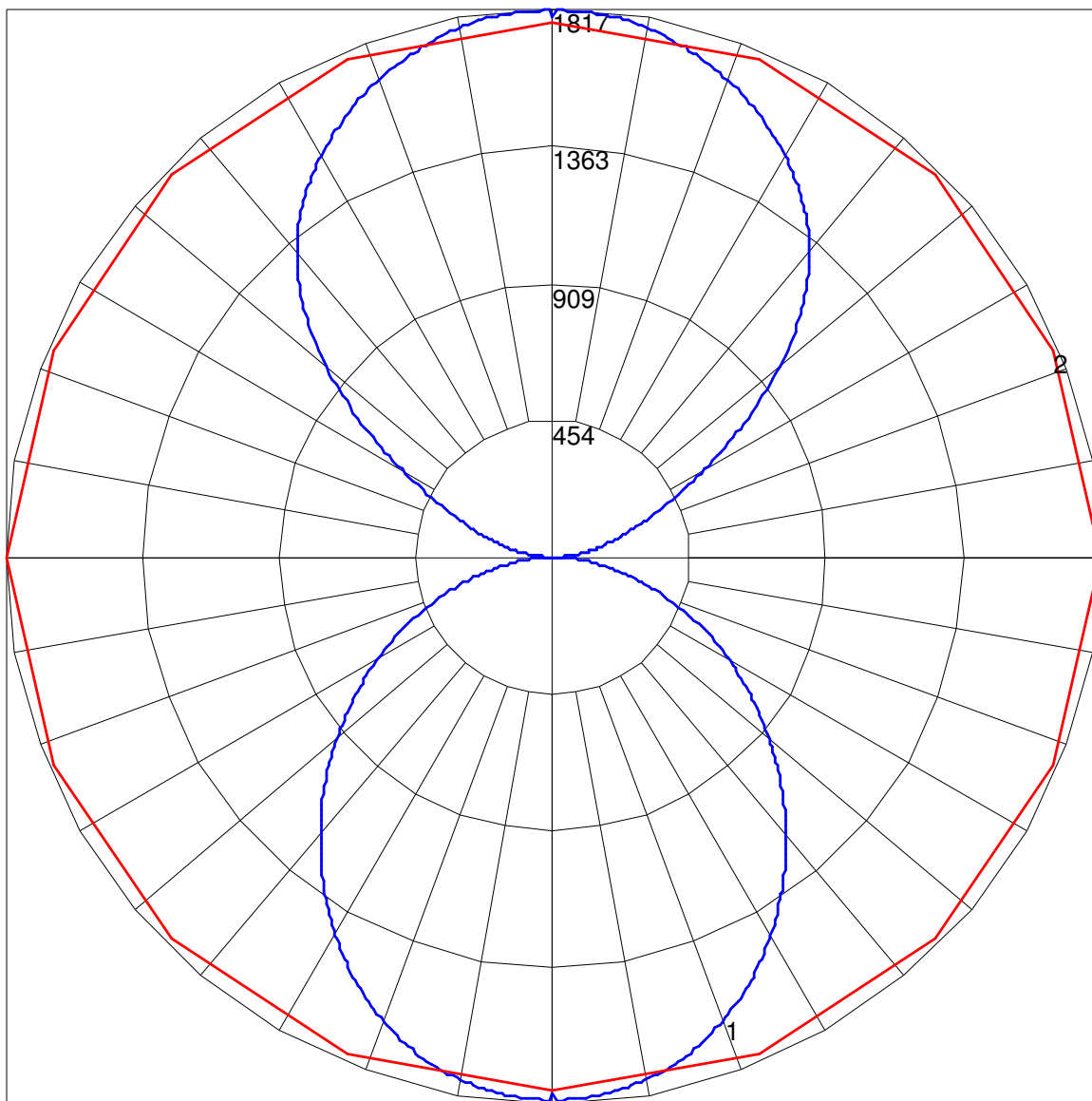
12H	4H	20.0	20.4	21.0	21.5	22.8	20.5	21.0	21.5	22.0	23.3
	6H	20.7	21.1	21.8	22.1	23.5	20.6	21.0	21.7	22.1	23.4
	8H	21.0	21.3	22.1	22.4	23.8	19.3	20.0	20.3	21.0	22.3

Maximum UGR = 23.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-930U-L12-930D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1817.383 Located At Horizontal Angle = 0, Vertical Angle = 179.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (179.5) (Through Max. Cd.)