

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-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-L15-940U-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	9566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	12855	12533	12390
55	11817	11531	11409
65	10899	10636	10521
75	9243	9238	9233
85	7219	7509	7726

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1865.272	1865.272	1865.272	1865.272	1865.272
0.5	1893.439	1866.837	1857.448	1861.360	1855.101
1.0	1893.439	1866.055	1857.448	1861.360	1855.101
1.5	1892.657	1865.272	1856.666	1861.360	1854.319
2.0	1891.874	1864.490	1855.883	1860.578	1854.319
2.5	1891.092	1863.707	1854.319	1859.795	1853.536
3.0	1889.527	1862.143	1853.536	1859.013	1851.971
3.5	1887.962	1860.578	1851.971	1857.448	1850.406
4.0	1886.397	1859.013	1850.406	1855.883	1848.842
4.5	1884.833	1856.666	1848.842	1854.319	1846.494
5.0	1883.268	1855.101	1846.494	1851.971	1844.147
5.5	1880.921	1852.754	1844.147	1849.624	1841.800
6.0	1878.573	1849.624	1841.800	1847.277	1838.670
6.5	1875.444	1847.277	1838.670	1844.147	1836.323
7.0	1873.096	1844.147	1836.323	1841.018	1833.193
7.5	1870.749	1841.018	1833.193	1837.888	1830.846
8.0	1866.837	1837.888	1829.281	1834.758	1827.717
8.5	1863.707	1833.976	1825.369	1830.846	1823.804
9.0	1859.795	1830.846	1822.240	1826.934	1819.892
9.5	1855.883	1826.934	1817.545	1822.240	1815.980
10.0	1851.971	1823.022	1813.633	1818.328	1811.286
10.5	1847.277	1818.328	1808.939	1813.633	1807.374
11.0	1843.365	1813.633	1804.244	1808.939	1801.897
11.5	1837.888	1808.939	1799.550	1804.244	1797.202
12.0	1833.193	1804.244	1794.855	1798.767	1791.726
12.5	1828.499	1798.767	1789.378	1793.290	1786.249
13.0	1823.022	1794.073	1783.901	1787.813	1780.772
13.5	1817.545	1787.813	1778.424	1781.554	1775.295
14.0	1812.068	1782.337	1772.165	1776.077	1769.818
14.5	1806.591	1776.860	1765.906	1769.818	1763.559
15.0	1801.114	1770.600	1759.647	1763.559	1757.299
15.5	1794.073	1765.123	1753.387	1756.517	1750.258
16.0	1786.249	1758.864	1746.346	1750.258	1743.998
16.5	1778.424	1751.822	1739.304	1743.216	1736.957
17.0	1771.383	1744.781	1732.262	1736.174	1729.915
17.5	1763.559	1736.957	1724.438	1728.350	1722.091
18.0	1755.735	1729.132	1716.614	1720.526	1714.267
18.5	1747.910	1721.308	1708.790	1711.919	1706.443
19.0	1740.086	1713.484	1701.748	1704.095	1697.054
19.5	1731.480	1705.660	1693.924	1694.706	1687.665
20.0	1723.656	1697.054	1686.882	1686.100	1678.276
20.5	1715.049	1689.229	1679.058	1676.711	1668.887
21.0	1706.443	1680.623	1670.452	1667.322	1658.715
21.5	1697.054	1672.016	1661.063	1657.933	1648.544
22.0	1688.447	1662.627	1650.891	1647.762	1639.155
22.5	1679.058	1653.238	1641.502	1637.590	1628.984
23.0	1669.669	1643.849	1632.113	1626.636	1618.812
23.5	1660.280	1634.461	1621.942	1616.465	1609.423
24.0	1650.109	1625.072	1612.553	1606.294	1599.252
24.5	1639.937	1614.900	1602.382	1596.122	1589.081
25.0	1630.548	1604.729	1592.210	1585.951	1578.909
25.5	1620.377	1594.557	1581.256	1575.780	1567.955
26.0	1609.423	1583.604	1571.085	1565.608	1557.784
26.5	1599.252	1573.432	1560.131	1555.437	1547.613

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27.0	1588.298	1562.479	1549.178	1545.265	1536.659
27.5	1577.344	1551.525	1539.006	1535.094	1526.488
28.0	1566.391	1539.789	1527.270	1524.140	1515.534
28.5	1554.654	1528.052	1516.316	1513.969	1504.580
29.0	1542.918	1517.099	1505.362	1503.015	1493.626
29.5	1531.964	1505.362	1494.409	1491.279	1483.455
30.0	1520.228	1493.626	1483.455	1480.325	1472.501
30.5	1508.492	1481.890	1471.719	1469.371	1461.547
31.0	1495.973	1470.936	1459.982	1457.635	1450.593
31.5	1484.237	1459.200	1448.246	1445.899	1438.857
32.0	1471.719	1446.681	1436.510	1433.380	1427.121
32.5	1459.200	1434.945	1424.774	1421.644	1414.602
33.0	1446.681	1423.209	1413.038	1409.908	1402.084
33.5	1434.945	1410.690	1400.519	1397.389	1390.348
34.0	1421.644	1398.172	1388.783	1384.871	1377.829
34.5	1409.126	1385.653	1375.482	1372.352	1364.528
35.0	1396.607	1373.917	1362.963	1359.834	1351.227
35.5	1383.306	1360.616	1350.445	1347.315	1337.926
36.0	1370.005	1348.097	1337.926	1334.014	1325.407
36.5	1357.486	1335.579	1325.407	1321.495	1312.889
37.0	1344.185	1322.278	1312.106	1308.194	1299.588
37.5	1330.884	1308.977	1299.588	1294.893	1287.069
38.0	1316.801	1295.676	1286.287	1281.592	1273.768
38.5	1303.500	1282.375	1272.986	1269.074	1260.467
39.0	1290.981	1269.074	1259.685	1255.773	1247.949
39.5	1276.898	1255.773	1247.166	1242.472	1233.865
40.0	1263.597	1241.689	1233.865	1229.171	1221.347
40.5	1249.513	1228.388	1220.564	1215.870	1208.045
41.0	1236.212	1214.305	1207.263	1201.786	1193.962
41.5	1222.129	1201.004	1193.180	1188.485	1179.879
42.0	1208.828	1186.920	1179.879	1175.184	1166.578
42.5	1195.527	1173.619	1166.578	1161.101	1153.277
43.0	1181.443	1160.318	1153.277	1147.800	1139.193
43.5	1168.142	1146.235	1139.193	1134.499	1125.892
44.0	1154.059	1132.151	1125.110	1120.415	1112.591
44.5	1139.976	1118.068	1111.026	1106.332	1098.508
45.0	1125.892	1104.767	1097.725	1092.248	1085.207
45.5	1112.591	1090.684	1083.642	1078.947	1071.906
46.0	1098.508	1076.600	1069.558	1064.864	1058.605
46.5	1084.424	1062.517	1056.257	1051.563	1045.304
47.0	1070.341	1048.433	1042.174	1037.479	1031.220
47.5	1055.475	1034.350	1028.091	1023.396	1017.919
48.0	1041.392	1020.266	1014.007	1010.095	1003.836
48.5	1027.308	1006.183	1000.706	996.012	989.752
49.0	1012.442	992.100	986.623	981.928	976.451
49.5	998.359	978.016	972.539	968.627	963.150
50.0	983.493	963.933	958.456	954.544	949.067
50.5	968.627	949.849	944.372	940.460	935.766
51.0	953.761	935.766	930.289	926.377	921.682
51.5	939.678	921.682	916.205	913.076	907.599
52.0	925.594	907.599	902.122	898.992	894.298
52.5	910.729	893.516	888.039	885.691	880.214
53.0	896.645	879.432	873.955	871.608	866.131
53.5	881.779	865.349	859.872	857.525	852.048
54.0	867.696	851.265	846.571	844.224	837.964
54.5	853.612	837.964	832.487	830.140	823.881

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55.0	839.529	824.663	819.186	816.839	810.580
55.5	826.228	810.580	805.103	802.756	797.279
56.0	811.362	796.496	791.019	789.455	783.195
56.5	797.279	783.195	777.327	775.606	769.425
57.0	783.978	769.112	763.478	761.601	755.733
57.5	770.207	755.498	749.708	747.987	741.884
58.0	756.437	742.040	735.859	734.294	728.192
58.5	742.588	728.505	722.245	720.837	715.047
59.0	728.974	714.891	708.553	707.223	701.668
59.5	715.751	701.120	694.626	693.687	688.445
60.0	702.216	687.428	680.856	680.073	674.988
60.5	688.836	674.049	667.555	666.381	661.374
61.0	675.692	660.669	654.332	653.002	648.073
61.5	661.608	647.447	641.187	639.701	634.928
62.0	647.760	633.833	627.573	626.478	621.471
62.5	633.598	621.236	614.742	613.881	608.717
63.0	619.984	610.126	604.883	604.492	600.267
63.5	606.214	597.998	593.851	592.991	588.609
64.0	597.920	586.184	582.428	580.707	575.699
64.5	585.010	573.587	569.518	567.954	563.259
65.0	570.535	560.129	556.765	555.278	550.740
65.5	555.748	546.515	543.464	542.760	538.144
66.0	541.508	533.214	530.476	530.163	525.234
66.5	527.425	519.600	517.253	517.253	512.872
67.0	513.498	506.065	504.187	504.422	500.431
67.5	499.805	492.764	491.042	491.512	487.600
68.0	485.957	479.463	477.898	478.524	474.455
68.5	472.030	465.927	464.675	465.536	461.545
69.0	457.633	452.313	451.374	451.843	448.166
69.5	443.628	438.934	437.838	438.386	435.022
70.0	429.779	425.398	424.615	424.850	421.877
70.5	416.165	411.784	411.236	411.471	408.654
71.0	402.238	398.248	398.092	398.405	395.353
71.5	388.312	384.712	385.025	385.260	382.600
72.0	374.776	371.098	371.724	372.037	369.768
72.5	361.240	357.719	358.736	359.049	357.171
73.0	347.861	344.653	346.061	346.452	344.809
73.5	334.873	331.743	333.386	334.090	332.291
74.0	322.041	318.833	320.868	321.415	320.242
74.5	309.210	306.158	308.427	308.975	308.114
75.0	296.300	293.561	296.143	296.691	295.987
75.5	283.546	280.964	283.938	284.642	283.859
76.0	270.637	268.837	271.888	272.671	272.045
76.5	258.431	256.866	259.918	260.778	260.231
77.0	246.538	244.817	248.181	248.964	248.103
77.5	234.254	233.081	236.445	237.071	236.210
78.0	222.284	221.345	224.709	225.648	224.787
78.5	210.391	209.921	213.129	214.225	213.520
79.0	198.968	198.498	201.784	203.114	202.567
79.5	187.544	187.310	190.596	192.004	191.535
80.0	176.278	176.356	179.407	181.363	180.737
80.5	164.933	165.637	168.766	170.644	170.175
81.0	154.057	155.152	158.204	160.160	159.847
81.5	143.573	144.746	147.876	149.832	149.597
82.0	133.793	134.575	137.783	139.817	139.582
82.5	124.012	124.717	127.846	129.881	129.724

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83.0	114.232	115.328	118.066	120.179	120.335
83.5	104.609	105.939	108.599	110.633	111.103
84.0	95.611	96.706	99.210	101.166	101.870
84.5	86.457	87.630	89.977	91.934	92.638
85.0	77.928	78.867	81.058	82.779	83.405
85.5	69.635	70.104	71.982	73.782	74.407
86.0	61.498	61.654	63.297	64.940	65.723
86.5	53.439	53.439	54.925	56.412	57.116
87.0	45.302	45.302	46.397	48.275	48.823
87.5	37.243	37.321	38.338	40.216	40.920
88.0	29.575	29.497	30.514	32.548	33.331
88.5	22.221	21.751	23.081	24.881	25.976
89.0	14.396	14.162	15.961	17.683	18.856
89.5	6.651	7.902	9.545	10.876	11.267
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.921	2.594	2.394	2.328	2.527
91.0	10.840	5.719	4.655	4.589	4.522
91.5	17.424	11.638	6.917	6.850	6.784
92.0	24.075	19.353	9.976	8.912	8.912
92.5	30.991	27.334	15.429	11.173	10.973
93.0	38.174	34.982	21.814	14.831	13.368
93.5	45.423	42.297	28.664	20.018	17.424
94.0	52.539	49.480	36.245	26.203	22.944
94.5	59.855	56.662	44.159	32.587	28.930
95.0	67.037	64.044	51.940	39.105	34.849
95.5	74.220	70.961	59.522	45.822	41.100
96.0	81.070	78.010	66.971	52.805	47.485
96.5	87.986	85.060	74.419	59.921	54.069
97.0	94.703	91.977	81.801	67.037	61.052
97.5	101.620	98.960	89.250	74.286	68.035
98.0	108.470	105.810	96.499	81.469	75.084
98.5	115.320	112.726	103.482	88.784	82.134
99.0	122.303	119.842	110.598	95.767	89.250
99.5	129.352	126.892	117.781	102.750	96.233
100.0	136.269	134.008	124.963	109.933	103.083
100.5	143.451	141.124	132.146	117.381	109.999
101.0	150.834	148.240	139.461	124.897	117.515
101.5	158.349	155.489	146.910	132.412	125.296
102.0	165.664	163.004	154.358	139.927	133.010
102.5	173.312	170.453	162.073	147.442	140.658
103.0	181.160	178.167	169.721	154.890	148.439
103.5	189.007	186.015	177.835	162.871	156.154
104.0	197.055	193.929	186.081	171.118	164.201
104.5	205.368	202.175	194.328	179.564	172.248
105.0	213.880	210.622	202.508	187.877	180.428
105.5	222.593	219.201	210.954	196.257	188.542
106.0	231.438	227.846	219.533	204.769	196.656
106.5	240.349	236.758	228.512	213.348	204.836
107.0	249.860	246.069	238.088	222.460	213.747
107.5	259.702	255.646	247.798	232.103	223.391
108.0	269.479	265.488	257.707	242.544	233.300
108.5	279.787	275.531	267.617	252.985	243.542
109.0	290.361	285.772	277.792	263.560	253.916
109.5	301.202	296.413	288.499	274.067	264.424
110.0	312.773	307.320	299.472	284.841	275.398
110.5	324.611	318.493	310.712	296.413	286.770

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111.0	336.582	330.198	322.350	308.451	298.209
111.5	348.819	342.235	334.188	320.688	309.980
112.0	361.522	354.605	345.960	332.925	321.220
112.5	374.291	367.308	357.864	345.095	333.124
113.0	387.658	380.409	370.433	357.664	345.560
113.5	401.425	394.109	383.734	371.231	358.928
114.0	415.391	408.075	397.833	385.663	373.759
114.5	429.822	422.507	412.199	400.693	389.520
115.0	444.454	437.338	427.096	415.856	405.482
115.5	459.750	452.301	442.392	430.953	421.243
116.0	475.179	467.863	458.220	446.848	437.271
116.5	491.473	483.825	474.580	463.141	454.363
117.0	508.431	500.118	491.074	480.699	471.987
117.5	520.934	512.821	506.170	496.860	489.877
118.0	536.896	527.651	521.666	513.552	505.771
118.5	555.451	545.342	537.494	529.048	520.070
119.0	573.606	562.766	555.451	546.605	535.965
119.5	591.962	581.321	574.471	564.429	553.788
120.0	610.916	600.541	593.558	583.915	572.609
120.5	629.737	620.027	613.243	604.598	592.693
121.0	649.489	639.912	633.062	625.214	614.042
121.5	669.041	659.598	652.814	646.097	634.924
122.0	689.658	679.682	673.697	667.046	655.873
122.5	709.609	699.634	694.313	687.663	675.692
123.0	730.226	720.915	715.595	710.274	697.638
123.5	751.508	742.197	738.207	732.886	720.250
124.0	772.789	764.144	760.153	755.498	743.527
124.5	794.071	785.425	782.100	777.445	766.139
125.0	815.352	806.707	803.382	799.391	788.085
125.5	837.299	828.653	825.328	821.338	809.367
126.0	858.581	849.935	847.940	843.285	830.649
126.5	879.862	871.217	870.552	866.561	853.260
127.0	901.809	893.163	893.163	889.838	877.202
127.5	923.756	914.445	914.445	912.450	901.144
128.0	945.037	935.727	936.392	935.062	923.756
128.5	966.319	956.343	957.673	957.673	945.702
129.0	987.601	976.960	978.955	979.620	968.314
129.5	1008.882	998.241	1000.902	1002.232	991.591
130.0	1030.164	1019.523	1022.848	1024.844	1016.198
130.5	1051.446	1040.140	1045.460	1046.790	1039.475
131.0	1072.727	1060.756	1066.742	1068.072	1060.756
131.5	1092.679	1080.708	1088.023	1088.023	1081.373
132.0	1113.295	1100.659	1108.640	1109.305	1101.324
132.5	1133.247	1121.276	1129.257	1129.922	1121.276
133.0	1153.198	1141.892	1149.208	1150.538	1140.562
133.5	1173.150	1161.844	1169.825	1171.155	1161.179
134.0	1193.101	1181.130	1189.111	1191.106	1181.130
134.5	1211.058	1200.417	1207.733	1209.063	1200.417
135.0	1229.014	1219.038	1225.689	1227.019	1217.708
135.5	1246.305	1238.325	1243.645	1244.310	1235.000
136.0	1263.597	1256.281	1260.272	1262.267	1252.956
136.5	1281.553	1273.573	1276.898	1280.223	1271.577
137.0	1298.179	1290.864	1294.189	1296.849	1288.869
137.5	1314.806	1306.825	1310.150	1312.146	1304.165
138.0	1330.767	1322.786	1325.447	1326.777	1318.796
138.5	1346.728	1338.083	1340.743	1341.408	1332.762

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-L12-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1362.024	1353.379	1356.039	1356.039	1346.728
139.5	1377.321	1368.675	1370.670	1370.005	1360.029
140.0	1391.952	1382.641	1385.301	1384.636	1374.660
140.5	1405.918	1395.942	1398.602	1397.937	1387.296
141.0	1419.884	1409.908	1411.903	1410.573	1399.932
141.5	1432.520	1422.544	1425.204	1423.209	1411.238
142.0	1445.821	1435.845	1437.840	1435.180	1423.209
142.5	1458.457	1448.481	1450.476	1447.816	1434.515
143.0	1471.093	1460.452	1462.447	1459.787	1446.486
143.5	1483.064	1473.088	1474.418	1471.758	1457.792
144.0	1494.369	1485.059	1485.724	1482.399	1468.433
144.5	1505.675	1496.365	1497.030	1493.039	1479.073
145.0	1516.316	1507.671	1507.671	1503.015	1489.049
145.5	1527.622	1518.976	1518.311	1514.321	1499.690
146.0	1538.263	1529.617	1528.952	1524.297	1510.331
146.5	1548.904	1540.258	1538.928	1534.938	1520.972
147.0	1558.879	1550.899	1548.239	1545.578	1531.612
147.5	1568.855	1560.875	1558.214	1555.554	1541.588
148.0	1578.831	1570.850	1566.860	1564.865	1552.229
148.5	1588.807	1580.826	1575.506	1574.176	1562.870
149.0	1598.117	1590.802	1584.151	1583.486	1573.511
149.5	1607.428	1600.113	1592.132	1592.797	1583.486
150.0	1616.739	1609.423	1600.778	1601.443	1592.797
150.5	1626.050	1618.734	1608.758	1609.423	1602.108
151.0	1634.695	1627.380	1616.739	1617.404	1610.753
151.5	1644.006	1636.025	1625.385	1625.385	1618.734
152.0	1652.652	1644.671	1633.365	1632.700	1626.715
152.5	1661.297	1652.652	1641.346	1640.681	1634.030
153.0	1669.943	1660.632	1649.326	1648.661	1640.681
153.5	1677.924	1668.613	1657.307	1656.642	1646.666
154.0	1685.904	1676.593	1665.953	1664.623	1653.317
154.5	1694.550	1683.909	1673.933	1671.938	1659.967
155.0	1702.530	1691.225	1681.914	1679.919	1667.283
155.5	1709.846	1697.875	1689.894	1687.899	1674.598
156.0	1717.162	1705.191	1698.540	1695.215	1681.914
156.5	1724.477	1712.506	1706.521	1703.195	1689.229
157.0	1731.793	1719.822	1714.501	1711.176	1696.545
157.5	1738.443	1726.472	1721.817	1718.492	1703.861
158.0	1745.094	1733.123	1729.132	1725.807	1711.176
158.5	1752.409	1740.438	1736.448	1733.123	1719.157
159.0	1758.395	1747.089	1743.099	1740.438	1726.472
159.5	1765.045	1753.739	1749.749	1747.754	1733.788
160.0	1771.031	1759.725	1756.400	1754.404	1741.103
160.5	1777.016	1765.710	1762.385	1761.055	1748.419
161.0	1783.002	1771.696	1768.370	1767.705	1755.735
161.5	1788.987	1778.346	1773.691	1774.356	1763.050
162.0	1795.638	1784.332	1779.011	1781.006	1769.701
162.5	1801.623	1790.317	1784.332	1786.992	1775.686
163.0	1807.608	1796.303	1789.652	1792.977	1781.672
163.5	1813.594	1801.623	1794.973	1798.963	1786.992
164.0	1819.579	1806.943	1799.628	1804.283	1792.312
164.5	1824.235	1812.264	1804.283	1809.604	1797.633
165.0	1829.555	1817.584	1808.939	1814.924	1802.288
165.5	1834.876	1822.240	1813.594	1819.579	1806.943
166.0	1840.196	1826.895	1818.249	1824.235	1810.934
166.5	1845.516	1831.550	1822.905	1828.225	1815.589

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-L12-940D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1850.172	1835.541	1826.895	1832.215	1819.579
167.5	1854.827	1839.531	1831.550	1836.206	1824.235
168.0	1859.482	1843.521	1835.541	1840.196	1828.225
168.5	1864.138	1847.512	1839.531	1844.186	1832.880
169.0	1868.128	1850.837	1843.521	1847.512	1836.871
169.5	1871.453	1854.162	1846.846	1850.837	1840.861
170.0	1874.779	1857.487	1850.172	1854.162	1845.516
170.5	1878.104	1860.813	1852.832	1857.487	1848.842
171.0	1881.429	1863.473	1855.492	1860.813	1852.167
171.5	1884.089	1866.133	1858.152	1864.138	1855.492
172.0	1886.750	1868.793	1860.148	1866.798	1858.152
172.5	1889.410	1871.453	1862.143	1868.793	1860.148
173.0	1892.070	1874.114	1864.138	1871.453	1861.478
173.5	1894.065	1876.109	1866.133	1872.783	1862.808
174.0	1896.060	1878.104	1868.128	1874.114	1863.473
174.5	1897.390	1879.434	1869.458	1875.444	1864.138
175.0	1898.720	1881.429	1870.788	1876.109	1864.138
175.5	1900.051	1882.759	1872.783	1876.774	1864.803
176.0	1901.381	1884.089	1874.114	1876.774	1864.803
176.5	1902.046	1885.419	1874.779	1877.439	1864.803
177.0	1902.711	1886.750	1876.109	1877.439	1864.138
177.5	1904.041	1888.080	1877.439	1877.439	1864.138
178.0	1904.706	1888.080	1878.104	1877.439	1864.803
178.5	1904.706	1888.745	1878.769	1877.439	1864.803
179.0	1905.371	1889.410	1878.769	1877.439	1864.803
179.5	1906.036	1889.410	1879.434	1877.439	1864.803
180.0	1882.759	1882.759	1882.759	1882.759	1882.759

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-L12-940D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	674.12	N.A.	7.00
0-30	1409.35	N.A.	14.70
0-40	2264.15	N.A.	23.70
0-60	3847.3	N.A.	40.20
0-80	4711.45	N.A.	49.30
0-90	4802.76	N.A.	50.20
10-90	4626.8	N.A.	48.40
20-40	1590.03	N.A.	16.60
20-50	2438.58	N.A.	25.50
40-70	2133.35	N.A.	22.30
60-80	864.15	N.A.	9.00
70-80	313.95	N.A.	3.30
80-90	91.31	N.A.	1.00
90-110	272.47	N.A.	2.80
90-120	699.45	N.A.	7.30
90-130	1416.97	N.A.	14.80
90-150	3295.77	N.A.	34.50
90-180	4763.25	N.A.	49.80
110-180	4490.78	N.A.	46.90
0-180	9566.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.96
10-20	498.16
20-30	735.23
30-40	854.79
40-50	848.56
50-60	734.59
60-70	550.20
70-80	313.95
80-90	91.31
90-100	58.77
100-110	213.70
110-120	426.98
120-130	717.52
130-140	938.22
140-150	940.57
150-160	776.96
160-170	511.98
170-180	178.55

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-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	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-L15-940U-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	16.7	17.6	17.7	18.6	19.8	16.6	17.5	17.6	18.5	19.7
	3H	18.5	19.3	19.5	20.2	21.5	18.4	19.2	19.4	20.2	21.4
	4H	19.1	19.8	20.1	20.8	22.1	19.0	19.8	20.0	20.7	22.0
	6H	19.5	20.2	20.5	21.2	22.5	19.5	20.2	20.5	21.2	22.5
	8H	19.7	20.3	20.7	21.3	22.6	19.6	20.3	20.6	21.3	22.6
	12H	19.7	20.4	20.7	21.4	22.7	19.7	20.3	20.7	21.3	22.7

UGR Viewed Endwise

4H	2H	17.3	18.0	18.3	19.0	20.3	17.2	17.9	18.2	18.9	20.2
	3H	19.2	19.8	20.2	20.9	22.2	19.2	19.8	20.2	20.8	22.1
	4H	20.0	20.5	21.0	21.5	22.9	19.9	20.5	20.9	21.5	22.8
	6H	20.5	21.0	21.5	22.0	23.4	20.5	21.0	21.5	22.0	23.4
	8H	20.7	21.2	21.7	22.2	23.5	20.7	21.2	21.7	22.2	23.5
	12H	20.8	21.2	21.9	22.3	23.6	20.8	21.2	21.9	22.3	23.6

8H	4H	20.2	20.7	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	21.9	22.3	23.7	20.9	21.3	21.9	22.3	23.7
	8H	21.2	21.5	22.2	22.5	23.9	21.2	21.5	22.2	22.6	23.9
	12H	21.4	21.6	22.4	22.7	24.1	21.4	21.7	22.5	22.7	24.1

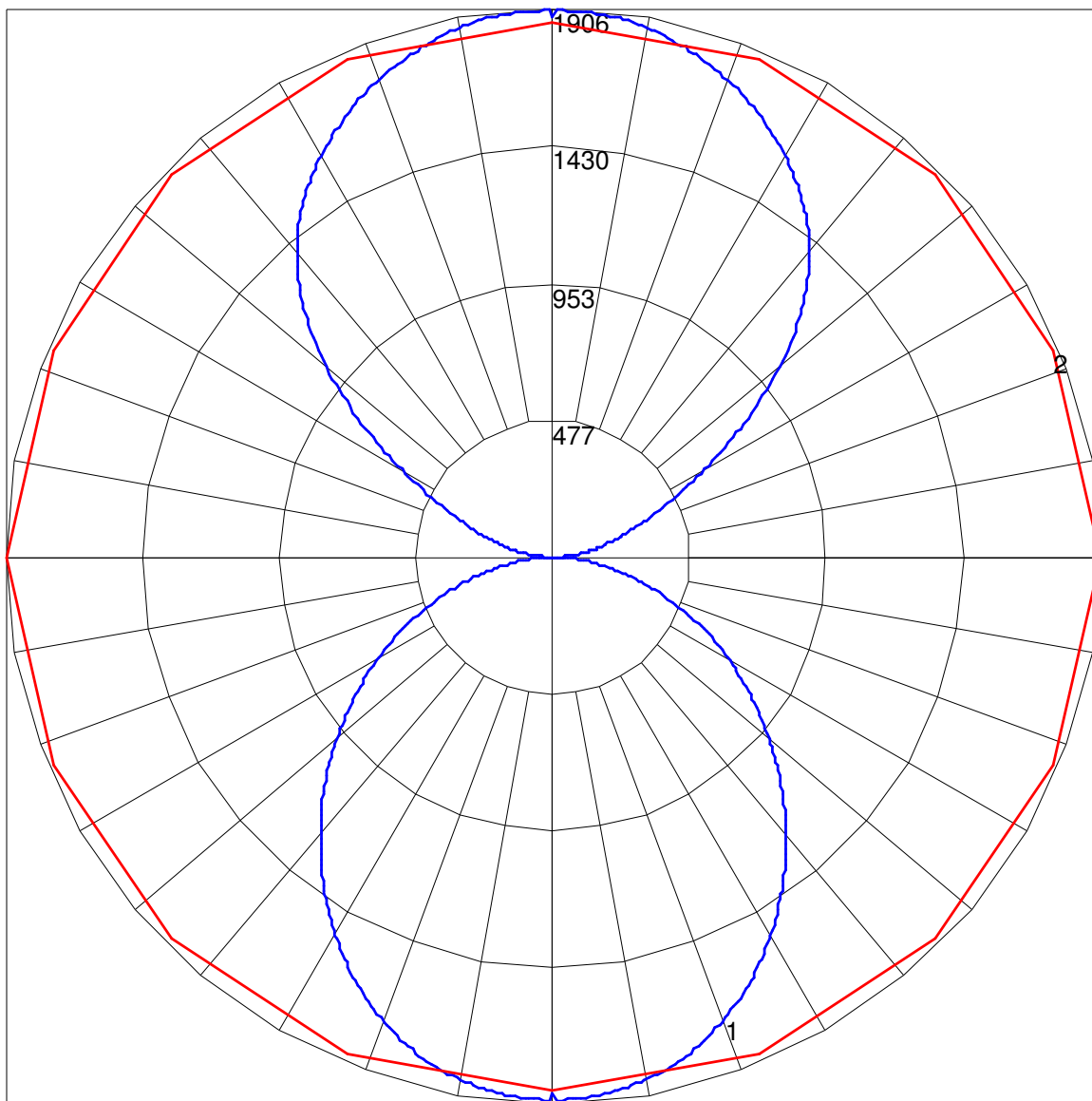
12H	4H	20.2	20.6	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	22.0	22.3	23.7	20.9	21.3	22.0	22.3	23.7
	8H	21.2	21.5	22.3	22.6	24.0	21.3	21.5	22.3	22.6	24.0

Maximum UGR = 24.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-940U-L12-940D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1906.036 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.)