

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L15-940D-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-L15-940D-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	9467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	91.8
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	12880	12558	12415
55	11840	11553	11432
65	10920	10657	10542
75	9261	9256	9251
85	7233	7523	7741

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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	1868.906	1868.906	1868.906	1868.906	1868.906
0.5	1897.128	1870.474	1861.067	1864.987	1858.715
1.0	1897.128	1869.690	1861.067	1864.987	1858.715
1.5	1896.344	1868.906	1860.283	1864.987	1857.931
2.0	1895.560	1868.122	1859.499	1864.203	1857.931
2.5	1894.776	1867.338	1857.931	1863.419	1857.147
3.0	1893.208	1865.770	1857.147	1862.635	1855.579
3.5	1891.640	1864.203	1855.579	1861.067	1854.011
4.0	1890.073	1862.635	1854.011	1859.499	1852.444
4.5	1888.505	1860.283	1852.444	1857.931	1850.092
5.0	1886.937	1858.715	1850.092	1855.579	1847.740
5.5	1884.585	1856.363	1847.740	1853.227	1845.388
6.0	1882.233	1853.227	1845.388	1850.876	1842.252
6.5	1879.097	1850.876	1842.252	1847.740	1839.901
7.0	1876.746	1847.740	1839.901	1844.604	1836.765
7.5	1874.394	1844.604	1836.765	1841.468	1834.413
8.0	1870.474	1841.468	1832.845	1838.333	1831.277
8.5	1867.338	1837.549	1828.925	1834.413	1827.358
9.0	1863.419	1834.413	1825.790	1830.493	1823.438
9.5	1859.499	1830.493	1821.086	1825.790	1819.518
10.0	1855.579	1826.574	1817.166	1821.870	1814.815
10.5	1850.876	1821.870	1812.463	1817.166	1810.895
11.0	1846.956	1817.166	1807.759	1812.463	1805.407
11.5	1841.468	1812.463	1803.056	1807.759	1800.704
12.0	1836.765	1807.759	1798.352	1802.272	1795.216
12.5	1832.061	1802.272	1792.864	1796.784	1789.729
13.0	1826.574	1797.568	1787.377	1791.296	1784.241
13.5	1821.086	1791.296	1781.889	1785.025	1778.753
14.0	1815.598	1785.809	1775.618	1779.537	1773.266
14.5	1810.111	1780.321	1769.346	1773.266	1766.994
15.0	1804.623	1774.050	1763.075	1766.994	1760.723
15.5	1797.568	1768.562	1756.803	1759.939	1753.667
16.0	1789.729	1762.291	1749.748	1753.667	1747.396
16.5	1781.889	1755.235	1742.692	1746.612	1740.341
17.0	1774.834	1748.180	1735.637	1739.557	1733.285
17.5	1766.994	1740.341	1727.798	1731.717	1725.446
18.0	1759.155	1732.501	1719.958	1723.878	1717.606
18.5	1751.316	1724.662	1712.119	1715.255	1709.767
19.0	1743.476	1716.822	1705.063	1707.415	1700.360
19.5	1734.853	1708.983	1697.224	1698.008	1690.952
20.0	1727.014	1700.360	1690.169	1689.385	1681.545
20.5	1718.390	1692.520	1682.329	1679.977	1672.138
21.0	1709.767	1683.897	1673.706	1670.570	1661.947
21.5	1700.360	1675.274	1664.299	1661.163	1651.756
22.0	1691.736	1665.866	1654.107	1650.972	1642.348
22.5	1682.329	1656.459	1644.700	1640.781	1632.157
23.0	1672.922	1647.052	1635.293	1629.805	1621.966
23.5	1663.515	1637.645	1625.102	1619.614	1612.559
24.0	1653.324	1628.238	1615.695	1609.423	1602.368
24.5	1643.132	1618.046	1605.503	1599.232	1592.176
25.0	1633.725	1607.855	1595.312	1589.041	1581.985
25.5	1623.534	1597.664	1584.337	1578.849	1571.010
26.0	1612.559	1586.689	1574.146	1568.658	1560.819
26.5	1602.368	1576.498	1563.171	1558.467	1550.628

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27.0	1591.392	1565.523	1552.196	1548.276	1539.653
27.5	1580.417	1554.547	1542.004	1538.085	1529.461
28.0	1569.442	1542.788	1530.245	1527.110	1518.486
28.5	1557.683	1531.029	1519.270	1516.918	1507.511
29.0	1545.924	1520.054	1508.295	1505.943	1496.536
29.5	1534.949	1508.295	1497.320	1494.184	1486.345
30.0	1523.190	1496.536	1486.345	1483.209	1475.370
30.5	1511.431	1484.777	1474.586	1472.234	1464.395
31.0	1498.888	1473.802	1462.827	1460.475	1453.420
31.5	1487.129	1462.043	1451.068	1448.716	1441.660
32.0	1474.586	1449.500	1439.309	1436.173	1429.901
32.5	1462.043	1437.741	1427.550	1424.414	1417.358
33.0	1449.500	1425.982	1415.791	1412.655	1404.815
33.5	1437.741	1413.439	1403.248	1400.112	1393.056
34.0	1424.414	1400.896	1391.488	1387.569	1380.513
34.5	1411.871	1388.353	1378.162	1375.026	1367.186
35.0	1399.328	1376.594	1365.619	1362.483	1353.860
35.5	1386.001	1363.267	1353.076	1349.940	1340.533
36.0	1372.674	1350.724	1340.533	1336.613	1327.990
36.5	1360.131	1338.181	1327.990	1324.070	1315.447
37.0	1346.804	1324.854	1314.663	1310.743	1302.120
37.5	1333.477	1311.527	1302.120	1297.416	1289.577
38.0	1319.366	1298.200	1288.793	1284.089	1276.250
38.5	1306.039	1284.873	1275.466	1271.546	1262.923
39.0	1293.496	1271.546	1262.139	1258.219	1250.380
39.5	1279.385	1258.219	1249.596	1244.892	1236.269
40.0	1266.059	1244.108	1236.269	1231.565	1223.726
40.5	1251.948	1230.781	1222.942	1218.238	1210.399
41.0	1238.621	1216.670	1209.615	1204.128	1196.288
41.5	1224.510	1203.344	1195.504	1190.801	1182.177
42.0	1211.183	1189.233	1182.177	1177.474	1168.850
42.5	1197.856	1175.906	1168.850	1163.363	1155.523
43.0	1183.745	1162.579	1155.523	1150.036	1141.413
43.5	1170.418	1148.468	1141.413	1136.709	1128.086
44.0	1156.307	1134.357	1127.302	1122.598	1114.759
44.5	1142.196	1120.246	1113.191	1108.487	1100.648
45.0	1128.086	1106.919	1099.864	1094.376	1087.321
45.5	1114.759	1092.808	1085.753	1081.049	1073.994
46.0	1100.648	1078.698	1071.642	1066.938	1060.667
46.5	1086.537	1064.587	1058.315	1053.612	1047.340
47.0	1072.426	1050.476	1044.204	1039.501	1033.229
47.5	1057.531	1036.365	1030.093	1025.390	1019.902
48.0	1043.420	1022.254	1015.983	1012.063	1005.791
48.5	1029.310	1008.143	1002.656	997.952	991.681
49.0	1014.415	994.032	988.545	983.841	978.354
49.5	1000.304	979.921	974.434	970.514	965.027
50.0	985.409	965.811	960.323	956.403	950.916
50.5	970.514	951.700	946.212	942.292	937.589
51.0	955.619	937.589	932.101	928.182	923.478
51.5	941.509	923.478	917.990	914.855	909.367
52.0	927.398	909.367	903.880	900.744	896.040
52.5	912.503	895.256	889.769	887.417	881.929
53.0	898.392	881.145	875.658	873.306	867.818
53.5	883.497	867.035	861.547	859.195	853.708
54.0	869.386	852.924	848.220	845.868	839.597
54.5	855.275	839.597	834.109	831.757	825.486

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55.0	841.165	826.270	820.782	818.430	812.159
55.5	827.838	812.159	806.671	804.320	798.832
56.0	812.943	798.048	792.560	790.993	784.721
56.5	798.832	784.721	778.842	777.117	770.924
57.0	785.505	770.610	764.966	763.084	757.205
57.5	771.708	756.970	751.169	749.444	743.329
58.0	757.910	743.486	737.293	735.725	729.610
58.5	744.035	729.924	723.652	722.241	716.440
59.0	730.394	716.283	709.934	708.601	703.035
59.5	717.146	702.486	695.979	695.039	689.786
60.0	703.584	688.767	682.182	681.398	676.303
60.5	690.178	675.362	668.855	667.679	662.662
61.0	677.008	661.957	655.607	654.274	649.335
61.5	662.897	648.708	642.437	640.947	636.165
62.0	649.022	635.067	628.796	627.698	622.681
62.5	634.832	622.446	615.939	615.077	609.903
63.0	621.192	611.314	606.062	605.670	601.437
63.5	607.394	599.163	595.008	594.146	589.756
64.0	599.085	587.326	583.563	581.838	576.821
64.5	586.150	574.704	570.628	569.060	564.356
65.0	571.647	561.221	557.850	556.360	551.813
65.5	556.831	547.580	544.523	543.817	539.192
66.0	542.563	534.253	531.509	531.196	526.257
66.5	528.452	520.613	518.261	518.261	513.871
67.0	514.498	507.051	505.169	505.404	501.406
67.5	500.779	493.724	491.999	492.469	488.550
68.0	486.903	480.397	478.829	479.456	475.379
68.5	472.949	466.835	465.580	466.443	462.445
69.0	458.525	453.194	452.253	452.724	449.039
69.5	444.492	439.789	438.691	439.240	435.869
70.0	430.617	426.227	425.443	425.678	422.699
70.5	416.976	412.586	412.037	412.273	409.450
71.0	403.022	399.024	398.867	399.181	396.123
71.5	389.068	385.462	385.775	386.011	383.345
72.0	375.506	371.821	372.449	372.762	370.489
72.5	361.944	358.416	359.435	359.749	357.867
73.0	348.538	345.324	346.735	347.127	345.481
73.5	335.525	332.389	334.036	334.741	332.938
74.0	322.669	319.454	321.493	322.041	320.865
74.5	309.812	306.755	309.028	309.577	308.714
75.0	296.877	294.133	296.720	297.269	296.563
75.5	284.099	281.512	284.491	285.196	284.412
76.0	271.164	269.361	272.418	273.202	272.575
76.5	258.934	257.367	260.424	261.286	260.738
77.0	247.019	245.294	248.665	249.449	248.586
77.5	234.711	233.535	236.906	237.533	236.671
78.0	222.717	221.776	225.147	226.087	225.225
78.5	210.801	210.330	213.544	214.642	213.936
79.0	199.355	198.885	202.177	203.510	202.961
79.5	187.910	187.675	190.967	192.378	191.908
80.0	176.621	176.699	179.757	181.717	181.089
80.5	165.254	165.959	169.095	170.977	170.506
81.0	154.357	155.455	158.512	160.472	160.158
81.5	143.853	145.028	148.164	150.124	149.889
82.0	134.053	134.837	138.051	140.090	139.854
82.5	124.254	124.960	128.095	130.134	129.977

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83.0	114.455	115.552	118.296	120.413	120.569
83.5	104.812	106.145	108.810	110.849	111.319
84.0	95.797	96.895	99.403	101.363	102.069
84.5	86.625	87.801	90.153	92.113	92.818
85.0	78.080	79.021	81.216	82.941	83.568
85.5	69.770	70.241	72.122	73.925	74.552
86.0	61.617	61.774	63.421	65.067	65.851
86.5	53.543	53.543	55.032	56.522	57.227
87.0	45.390	45.390	46.487	48.369	48.918
87.5	37.315	37.394	38.413	40.294	41.000
88.0	29.633	29.554	30.574	32.612	33.396
88.5	22.264	21.793	23.126	24.929	26.027
89.0	14.424	14.189	15.992	17.717	18.893
89.5	6.664	7.918	9.564	10.897	11.289
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.809	2.534	2.339	2.274	2.469
91.0	10.593	5.589	4.549	4.484	4.419
91.5	17.026	11.372	6.759	6.694	6.629
92.0	23.525	18.911	9.748	8.708	8.708
92.5	30.283	26.709	15.077	10.918	10.723
93.0	37.302	34.182	21.315	14.492	13.062
93.5	44.385	41.331	28.009	19.561	17.026
94.0	51.339	48.349	35.417	25.604	22.420
94.5	58.487	55.368	43.150	31.843	28.269
95.0	65.506	62.581	50.754	38.212	34.052
95.5	72.524	69.340	58.162	44.775	40.161
96.0	79.218	76.228	65.441	51.599	46.400
96.5	85.976	83.117	72.719	58.552	52.833
97.0	92.540	89.875	79.932	65.506	59.657
97.5	99.298	96.699	87.211	72.589	66.480
98.0	105.992	103.392	94.294	79.607	73.369
98.5	112.685	110.151	101.118	86.756	80.257
99.0	119.509	117.104	108.071	93.579	87.211
99.5	126.397	123.993	115.090	100.403	94.034
100.0	133.156	130.946	122.108	107.421	100.728
100.5	140.174	137.900	129.126	114.700	107.486
101.0	147.387	144.853	136.275	122.043	114.830
101.5	154.731	151.936	143.553	129.386	122.433
102.0	161.879	159.280	150.832	136.730	129.971
102.5	169.353	166.558	158.370	144.073	137.445
103.0	177.021	174.097	165.843	151.352	145.048
103.5	184.689	181.765	173.772	159.150	152.586
104.0	192.552	189.498	181.830	167.208	160.450
104.5	200.676	197.556	189.888	175.461	168.313
105.0	208.994	205.810	197.881	183.584	176.306
105.5	217.507	214.193	206.134	191.773	184.234
106.0	226.150	222.641	214.518	200.091	192.163
106.5	234.858	231.349	223.291	208.474	200.156
107.0	244.151	240.447	232.649	217.377	208.864
107.5	253.769	249.805	242.137	226.800	218.287
108.0	263.322	259.423	251.819	237.003	227.970
108.5	273.395	269.236	261.502	247.205	237.977
109.0	283.727	279.243	271.445	257.538	248.115
109.5	294.320	289.641	281.908	267.806	258.383
110.0	305.628	300.299	292.630	278.334	269.106
110.5	317.195	311.216	303.613	289.641	280.218

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111.0	328.892	322.654	314.985	301.403	291.396
111.5	340.850	334.416	326.553	313.361	302.898
112.0	353.262	346.503	338.055	325.318	313.881
112.5	365.739	358.916	349.688	337.211	325.513
113.0	378.801	371.718	361.970	349.493	337.665
113.5	392.253	385.105	374.967	362.750	350.728
114.0	405.900	398.752	388.744	376.852	365.219
114.5	420.002	412.854	402.781	391.539	380.621
115.0	434.299	427.346	417.338	406.355	396.218
115.5	449.246	441.967	432.285	421.107	411.619
116.0	464.322	457.174	447.751	436.639	427.281
116.5	480.244	472.771	463.738	452.560	443.982
117.0	496.815	488.692	479.854	469.716	461.203
117.5	509.033	501.104	494.606	485.508	478.684
118.0	524.629	515.596	509.747	501.819	494.216
118.5	542.760	532.882	525.214	516.961	508.188
119.0	560.501	549.909	542.760	534.117	523.719
119.5	578.437	568.040	561.346	551.533	541.136
120.0	596.958	586.820	579.997	570.574	559.526
120.5	615.349	605.861	599.233	590.785	579.152
121.0	634.650	625.292	618.598	610.930	600.012
121.5	653.756	644.528	637.899	631.336	620.418
122.0	673.901	664.153	658.305	651.806	640.888
122.5	693.397	683.649	678.450	671.952	660.254
123.0	713.542	704.444	699.246	694.047	681.699
123.5	734.338	725.240	721.341	716.142	703.795
124.0	755.133	746.685	742.786	738.237	726.540
124.5	775.929	767.481	764.231	759.682	748.635
125.0	796.724	788.276	785.027	781.128	770.080
125.5	818.169	809.721	806.472	802.573	790.875
126.0	838.965	830.517	828.567	824.018	811.671
126.5	859.760	851.312	850.662	846.763	833.766
127.0	881.205	872.757	872.757	869.508	857.161
127.5	902.651	893.553	893.553	891.603	880.556
128.0	923.446	914.348	914.998	913.698	902.651
128.5	944.241	934.494	935.793	935.793	924.096
129.0	965.037	954.639	956.589	957.239	946.191
129.5	985.832	975.435	978.034	979.334	968.936
130.0	1006.628	996.230	999.479	1001.429	992.981
130.5	1027.423	1016.376	1021.574	1022.874	1015.726
131.0	1048.219	1036.521	1042.370	1043.670	1036.521
131.5	1067.714	1056.017	1063.165	1063.165	1056.667
132.0	1087.860	1075.512	1083.311	1083.961	1076.162
132.5	1107.355	1095.658	1103.456	1104.106	1095.658
133.0	1126.851	1115.804	1122.952	1124.252	1114.504
133.5	1146.347	1135.299	1143.098	1144.397	1134.649
134.0	1165.843	1154.145	1161.943	1163.893	1154.145
134.5	1183.389	1172.991	1180.139	1181.439	1172.991
135.0	1200.935	1191.187	1197.686	1198.985	1189.887
135.5	1217.831	1210.033	1215.232	1215.881	1206.784
136.0	1234.727	1227.579	1231.478	1233.428	1224.330
136.5	1252.273	1244.475	1247.724	1250.974	1242.526
137.0	1268.520	1261.371	1264.621	1267.220	1259.422
137.5	1284.766	1276.968	1280.217	1282.167	1274.369
138.0	1300.363	1292.565	1295.164	1296.464	1288.665
138.5	1315.959	1307.511	1310.111	1310.761	1302.312

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

139.0	1330.906	1322.458	1325.057	1325.057	1315.959
139.5	1345.853	1337.405	1339.354	1338.704	1328.957
140.0	1360.150	1351.052	1353.651	1353.001	1343.253
140.5	1373.797	1364.049	1366.648	1365.998	1355.601
141.0	1387.444	1377.696	1379.645	1378.346	1367.948
141.5	1399.791	1390.043	1392.642	1390.693	1378.995
142.0	1412.788	1403.040	1404.990	1402.390	1390.693
142.5	1425.135	1415.387	1417.337	1414.738	1401.740
143.0	1437.483	1427.085	1429.034	1426.435	1413.438
143.5	1449.180	1439.432	1440.732	1438.132	1424.485
144.0	1460.228	1451.130	1451.779	1448.530	1434.883
144.5	1471.275	1462.177	1462.827	1458.928	1445.281
145.0	1481.673	1473.225	1473.225	1468.676	1455.029
145.5	1492.720	1484.272	1483.622	1479.723	1465.426
146.0	1503.118	1494.670	1494.020	1489.471	1475.824
146.5	1513.516	1505.068	1503.768	1499.869	1486.222
147.0	1523.264	1515.465	1512.866	1510.266	1496.619
147.5	1533.011	1525.213	1522.614	1520.014	1506.367
148.0	1542.759	1534.961	1531.062	1529.112	1516.765
148.5	1552.507	1544.709	1539.510	1538.210	1527.163
149.0	1561.605	1554.457	1547.958	1547.308	1537.560
149.5	1570.703	1563.555	1555.756	1556.406	1547.308
150.0	1579.801	1572.653	1564.205	1564.854	1556.406
150.5	1588.899	1581.751	1572.003	1572.653	1565.504
151.0	1597.347	1590.199	1579.801	1580.451	1573.952
151.5	1606.445	1598.647	1588.249	1588.249	1581.751
152.0	1614.893	1607.095	1596.048	1595.398	1589.549
152.5	1623.342	1614.893	1603.846	1603.196	1596.697
153.0	1631.790	1622.692	1611.644	1610.994	1603.196
153.5	1639.588	1630.490	1619.442	1618.793	1609.045
154.0	1647.386	1638.288	1627.891	1626.591	1615.543
154.5	1655.834	1645.437	1635.689	1633.739	1622.042
155.0	1663.633	1652.585	1643.487	1641.537	1629.190
155.5	1670.781	1659.084	1651.285	1649.336	1636.339
156.0	1677.929	1666.232	1659.733	1656.484	1643.487
156.5	1685.078	1673.380	1667.532	1664.282	1650.635
157.0	1692.226	1680.529	1675.330	1672.081	1657.784
157.5	1698.725	1687.027	1682.478	1679.229	1664.932
158.0	1705.223	1693.526	1689.627	1686.378	1672.081
158.5	1712.372	1700.674	1696.775	1693.526	1679.879
159.0	1718.221	1707.173	1703.274	1700.674	1687.027
159.5	1724.719	1713.672	1709.772	1707.823	1694.176
160.0	1730.568	1719.520	1716.271	1714.321	1701.324
160.5	1736.417	1725.369	1722.120	1720.820	1708.473
161.0	1742.265	1731.218	1727.968	1727.319	1715.621
161.5	1748.114	1737.716	1733.167	1733.817	1722.770
162.0	1754.613	1743.565	1738.366	1740.316	1729.268
162.5	1760.461	1749.414	1743.565	1746.164	1735.117
163.0	1766.310	1755.262	1748.764	1752.013	1740.966
163.5	1772.159	1760.461	1753.963	1757.862	1746.164
164.0	1778.007	1765.660	1758.512	1763.061	1751.363
164.5	1782.556	1770.859	1763.061	1768.260	1756.562
165.0	1787.755	1776.058	1767.610	1773.458	1761.111
165.5	1792.954	1780.607	1772.159	1778.007	1765.660
166.0	1798.153	1785.156	1776.708	1782.556	1769.559
166.5	1803.352	1789.705	1781.257	1786.455	1774.108

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

167.0	1807.901	1793.604	1785.156	1790.355	1778.007
167.5	1812.450	1797.503	1789.705	1794.254	1782.556
168.0	1816.999	1801.402	1793.604	1798.153	1786.455
168.5	1821.548	1805.301	1797.503	1802.052	1791.004
169.0	1825.447	1808.551	1801.402	1805.301	1794.904
169.5	1828.696	1811.800	1804.651	1808.551	1798.803
170.0	1831.945	1815.049	1807.901	1811.800	1803.352
170.5	1835.195	1818.298	1810.500	1815.049	1806.601
171.0	1838.444	1820.898	1813.100	1818.298	1809.850
171.5	1841.043	1823.497	1815.699	1821.548	1813.100
172.0	1843.643	1826.097	1817.649	1824.147	1815.699
172.5	1846.242	1828.696	1819.598	1826.097	1817.649
173.0	1848.842	1831.296	1821.548	1828.696	1818.948
173.5	1850.791	1833.245	1823.497	1829.996	1820.248
174.0	1852.741	1835.195	1825.447	1831.296	1820.898
174.5	1854.041	1836.494	1826.747	1832.595	1821.548
175.0	1855.340	1838.444	1828.046	1833.245	1821.548
175.5	1856.640	1839.744	1829.996	1833.895	1822.198
176.0	1857.940	1841.043	1831.296	1833.895	1822.198
176.5	1858.590	1842.343	1831.945	1834.545	1822.198
177.0	1859.239	1843.643	1833.245	1834.545	1821.548
177.5	1860.539	1844.943	1834.545	1834.545	1821.548
178.0	1861.189	1844.943	1835.195	1834.545	1822.198
178.5	1861.189	1845.592	1835.845	1834.545	1822.198
179.0	1861.839	1846.242	1835.845	1834.545	1822.198
179.5	1862.489	1846.242	1836.494	1834.545	1822.198
180.0	1839.744	1839.744	1839.744	1839.744	1839.744

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

Zone	Lumens	%Lamp	%Fixt
0-20	675.43	N.A.	7.10
0-30	1412.1	N.A.	14.90
0-40	2268.56	N.A.	24.00
0-60	3854.79	N.A.	40.70
0-80	4720.63	N.A.	49.90
0-90	4812.11	N.A.	50.80
10-90	4635.81	N.A.	49.00
20-40	1593.13	N.A.	16.80
20-50	2443.33	N.A.	25.80
40-70	2137.5	N.A.	22.60
60-80	865.83	N.A.	9.10
70-80	314.57	N.A.	3.30
80-90	91.49	N.A.	1.00
90-110	266.24	N.A.	2.80
90-120	683.47	N.A.	7.20
90-130	1384.6	N.A.	14.60
90-150	3220.47	N.A.	34.00
90-180	4654.43	N.A.	49.20
110-180	4388.18	N.A.	46.40
0-180	9466.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.30
10-20	499.13
20-30	736.67
30-40	856.46
40-50	850.21
50-60	736.03
60-70	551.27
70-80	314.57
80-90	91.49
90-100	57.43
100-110	208.82
110-120	417.23
120-130	701.13
130-140	916.79
140-150	919.08
150-160	759.21
160-170	500.29
170-180	174.47

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-940U-L15-940D-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-L15-940D-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	UGR Viewed Endwise	16.6	17.5	17.6	18.5	19.7
	3H	18.5	19.3	19.5	20.3	21.5		18.4	19.2	19.4	20.2	21.4
	4H	19.1	19.9	20.1	20.8	22.1		19.0	19.8	20.0	20.8	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	19.8	20.4	20.8	21.4	22.7		19.7	20.4	20.7	21.4	22.7

4H	2H	17.3	18.0	18.2	19.0	20.3		17.2	17.9	18.2	18.9	20.2
	3H	19.2	19.9	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	23.3
	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	21.8	22.3	23.6		20.8	21.3	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	21.7	22.4	22.7	24.1		21.4	21.7	22.4	22.7	24.1

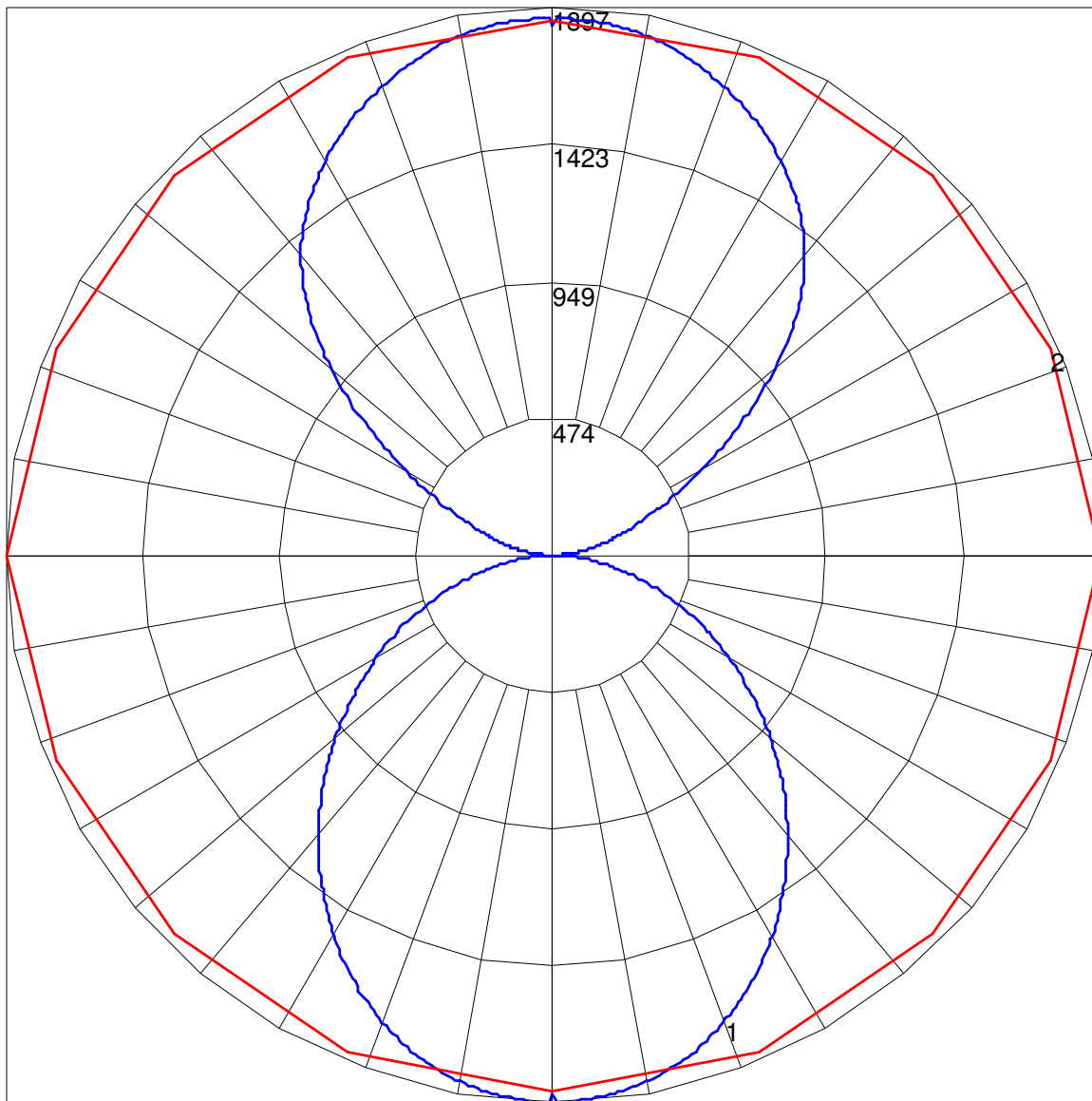
12H	4H	20.2	20.6	21.2	21.7	23.0		20.2	20.6	21.2	21.6	23.0
	6H	21.0	21.3	22.0	22.3	23.7		20.9	21.3	22.0	22.3	23.7
	8H	21.2	21.5	22.3	22.6	24.0		21.3	21.6	22.3	22.6	24.0

Maximum UGR = 24.1

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 1897.128 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.)