

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-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-L15-950U-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	9900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	13303	12971	12823
55	12229	11933	11807
65	11279	11007	10888
75	9565	9560	9555
85	7471	7771	7996

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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	1930.340	1930.340	1930.340	1930.340	1930.340
0.5	1959.489	1931.959	1922.243	1926.292	1919.814
1.0	1959.489	1931.150	1922.243	1926.292	1919.814
1.5	1958.680	1930.340	1921.433	1926.292	1919.004
2.0	1957.870	1929.530	1920.624	1925.482	1919.004
2.5	1957.060	1928.721	1919.004	1924.672	1918.194
3.0	1955.441	1927.101	1918.194	1923.862	1916.575
3.5	1953.822	1925.482	1916.575	1922.243	1914.956
4.0	1952.202	1923.862	1914.956	1920.624	1913.336
4.5	1950.583	1921.433	1913.336	1919.004	1910.907
5.0	1948.963	1919.814	1910.907	1916.575	1908.478
5.5	1946.534	1917.385	1908.478	1914.146	1906.049
6.0	1944.105	1914.146	1906.049	1911.717	1902.810
6.5	1940.866	1911.717	1902.810	1908.478	1900.381
7.0	1938.437	1908.478	1900.381	1905.239	1897.142
7.5	1936.008	1905.239	1897.142	1902.000	1894.713
8.0	1931.959	1902.000	1893.094	1898.761	1891.474
8.5	1928.721	1897.952	1889.045	1894.713	1887.426
9.0	1924.672	1894.713	1885.806	1890.664	1883.377
9.5	1920.624	1890.664	1880.948	1885.806	1879.329
10.0	1916.575	1886.616	1876.899	1881.758	1874.470
10.5	1911.717	1881.758	1872.041	1876.899	1870.422
11.0	1907.668	1876.899	1867.183	1872.041	1864.754
11.5	1902.000	1872.041	1862.325	1867.183	1859.896
12.0	1897.142	1867.183	1857.466	1861.515	1854.228
12.5	1892.284	1861.515	1851.799	1855.847	1848.560
13.0	1886.616	1856.657	1846.131	1850.179	1842.892
13.5	1880.948	1850.179	1840.463	1843.701	1837.224
14.0	1875.280	1844.511	1833.985	1838.034	1831.556
14.5	1869.612	1838.843	1827.507	1831.556	1825.078
15.0	1863.944	1832.366	1821.030	1825.078	1818.601
15.5	1856.657	1826.698	1814.552	1817.791	1811.313
16.0	1848.560	1820.220	1807.265	1811.313	1804.836
16.5	1840.463	1812.933	1799.977	1804.026	1797.548
17.0	1833.175	1805.645	1792.690	1796.738	1790.261
17.5	1825.078	1797.548	1784.593	1788.641	1782.164
18.0	1816.981	1789.451	1776.496	1780.544	1774.067
18.5	1808.884	1781.354	1768.399	1771.638	1765.970
19.0	1800.787	1773.257	1761.111	1763.541	1756.253
19.5	1791.880	1765.160	1753.014	1753.824	1746.537
20.0	1783.783	1756.253	1745.727	1744.917	1736.820
20.5	1774.876	1748.156	1737.630	1735.201	1727.104
21.0	1765.970	1739.249	1728.723	1725.484	1716.578
21.5	1756.253	1730.343	1719.007	1715.768	1706.051
22.0	1747.346	1720.626	1708.480	1705.242	1696.335
22.5	1737.630	1710.910	1698.764	1694.715	1685.809
23.0	1727.913	1701.193	1689.048	1683.380	1675.283
23.5	1718.197	1691.477	1678.521	1672.853	1665.566
24.0	1707.671	1681.760	1668.805	1662.327	1655.040
24.5	1697.145	1671.234	1658.279	1651.801	1644.514
25.0	1687.428	1660.708	1647.753	1641.275	1633.987
25.5	1676.902	1650.182	1636.417	1630.749	1622.652
26.0	1665.566	1638.846	1625.890	1620.222	1612.125
26.5	1655.040	1628.320	1614.555	1609.696	1601.599

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27.0	1643.704	1616.984	1603.219	1599.170	1590.263
27.5	1632.368	1605.648	1592.692	1588.644	1579.737
28.0	1621.032	1593.502	1580.547	1577.308	1568.401
28.5	1608.887	1581.357	1569.211	1566.782	1557.065
29.0	1596.741	1570.021	1557.875	1555.446	1545.729
29.5	1585.405	1557.875	1546.539	1543.300	1535.203
30.0	1573.260	1545.729	1535.203	1531.964	1523.867
30.5	1561.114	1533.584	1523.058	1520.629	1512.532
31.0	1548.159	1522.248	1510.912	1508.483	1501.196
31.5	1536.013	1510.102	1498.767	1496.337	1489.050
32.0	1523.058	1497.147	1486.621	1483.382	1476.904
32.5	1510.102	1485.002	1474.475	1471.237	1463.949
33.0	1497.147	1472.856	1462.330	1459.091	1450.994
33.5	1485.002	1459.901	1449.374	1446.136	1438.848
34.0	1471.237	1446.945	1437.229	1433.180	1425.893
34.5	1458.281	1433.990	1423.464	1420.225	1412.128
35.0	1445.326	1421.844	1410.509	1407.270	1398.363
35.5	1431.561	1408.079	1397.553	1394.314	1384.598
36.0	1417.796	1395.124	1384.598	1380.549	1371.643
36.5	1404.841	1382.169	1371.643	1367.594	1358.687
37.0	1391.076	1368.404	1357.878	1353.829	1344.922
37.5	1377.311	1354.639	1344.922	1340.064	1331.967
38.0	1362.736	1340.874	1331.157	1326.299	1318.202
38.5	1348.971	1327.109	1317.392	1313.344	1304.437
39.0	1336.016	1313.344	1303.627	1299.579	1291.482
39.5	1321.441	1299.579	1290.672	1285.814	1276.907
40.0	1307.676	1285.004	1276.907	1272.049	1263.952
40.5	1293.101	1271.239	1263.142	1258.284	1250.187
41.0	1279.336	1256.664	1249.377	1243.709	1235.612
41.5	1264.761	1242.899	1234.802	1229.944	1221.037
42.0	1250.996	1228.325	1221.037	1216.179	1207.272
42.5	1237.231	1214.560	1207.272	1201.604	1193.507
43.0	1222.657	1200.795	1193.507	1187.839	1178.933
43.5	1208.892	1186.220	1178.933	1174.074	1165.167
44.0	1194.317	1171.645	1164.358	1159.500	1151.402
44.5	1179.742	1157.070	1149.783	1144.925	1136.828
45.0	1165.167	1143.305	1136.018	1130.350	1123.063
45.5	1151.402	1128.731	1121.443	1116.585	1109.298
46.0	1136.828	1114.156	1106.869	1102.010	1095.533
46.5	1122.253	1099.581	1093.104	1088.245	1081.768
47.0	1107.678	1085.007	1078.529	1073.671	1067.193
47.5	1092.294	1070.432	1063.954	1059.096	1053.428
48.0	1077.719	1055.857	1049.379	1045.331	1038.853
48.5	1063.144	1041.282	1035.614	1030.756	1024.279
49.0	1047.760	1026.708	1021.040	1016.182	1010.514
49.5	1033.185	1012.133	1006.465	1002.417	996.749
50.0	1017.801	997.558	991.890	987.842	982.174
50.5	1002.417	982.984	977.316	973.267	968.409
51.0	987.032	968.409	962.741	958.692	953.834
51.5	972.457	953.834	948.166	944.927	939.259
52.0	957.883	939.259	933.591	930.353	925.494
52.5	942.498	924.685	919.017	916.588	910.920
53.0	927.924	910.110	904.442	902.013	896.345
53.5	912.539	895.535	889.867	887.438	881.770
54.0	897.964	880.961	876.102	873.673	867.196
54.5	883.390	867.196	861.528	859.098	852.621

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55.0	868.815	853.431	847.763	845.333	838.856
55.5	855.050	838.856	833.188	830.759	825.091
56.0	839.666	824.281	818.613	816.994	810.516
56.5	825.091	810.516	804.443	802.662	796.265
57.0	811.326	795.941	790.111	788.168	782.095
57.5	797.075	781.852	775.861	774.079	767.764
58.0	782.824	767.926	761.529	759.909	753.594
58.5	768.492	753.918	747.440	745.982	739.991
59.0	754.403	739.829	733.270	731.894	726.145
59.5	740.719	725.578	718.857	717.886	712.461
60.0	726.711	711.408	704.607	703.797	698.534
60.5	712.866	697.562	690.841	689.627	684.445
61.0	699.262	683.716	677.157	675.781	670.680
61.5	684.688	670.032	663.554	662.016	657.077
62.0	670.356	655.943	649.465	648.332	643.150
62.5	655.700	642.907	636.186	635.296	629.952
63.0	641.611	631.409	625.984	625.579	621.207
63.5	627.361	618.859	614.567	613.676	609.142
64.0	618.778	606.632	602.745	600.964	595.782
64.5	605.417	593.596	589.385	587.766	582.908
65.0	590.438	579.669	576.187	574.649	569.952
65.5	575.134	565.580	562.422	561.693	556.916
66.0	560.398	551.815	548.981	548.657	543.556
66.5	545.823	537.726	535.297	535.297	530.763
67.0	531.410	523.718	521.775	522.018	517.888
67.5	517.240	509.953	508.172	508.658	504.609
68.0	502.909	496.188	494.569	495.216	491.006
68.5	488.496	482.180	480.885	481.775	477.646
69.0	473.597	468.091	467.120	467.605	463.800
69.5	459.104	454.245	453.112	453.678	450.197
70.0	444.772	440.237	439.428	439.671	436.594
70.5	430.683	426.148	425.582	425.825	422.910
71.0	416.270	412.141	411.979	412.302	409.145
71.5	401.857	398.133	398.457	398.699	395.946
72.0	387.849	384.044	384.692	385.015	382.667
72.5	373.841	370.198	371.250	371.574	369.631
73.0	359.995	356.676	358.133	358.538	356.838
73.5	346.554	343.316	345.016	345.745	343.882
74.0	333.275	329.955	332.061	332.627	331.413
74.5	319.996	316.838	319.186	319.753	318.862
75.0	306.636	303.802	306.474	307.041	306.312
75.5	293.438	290.766	293.842	294.571	293.761
76.0	280.077	278.215	281.373	282.183	281.535
76.5	267.446	265.827	268.984	269.875	269.308
77.0	255.138	253.357	256.839	257.649	256.758
77.5	242.426	241.212	244.693	245.341	244.450
78.0	230.038	229.066	232.548	233.519	232.629
78.5	217.730	217.244	220.564	221.698	220.969
79.0	205.908	205.423	208.823	210.200	209.633
79.5	194.087	193.844	197.244	198.702	198.216
80.0	182.427	182.508	185.666	187.690	187.042
80.5	170.686	171.415	174.654	176.597	176.111
81.0	159.431	160.565	163.723	165.747	165.423
81.5	148.581	149.796	153.035	155.059	154.816
82.0	138.460	139.269	142.589	144.695	144.452
82.5	128.338	129.067	132.306	134.411	134.249

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83.0	118.217	119.351	122.185	124.371	124.533
83.5	108.258	109.634	112.387	114.492	114.978
84.0	98.946	100.080	102.671	104.695	105.424
84.5	89.473	90.687	93.116	95.141	95.869
85.0	80.647	81.618	83.886	85.667	86.315
85.5	72.064	72.550	74.493	76.355	77.003
86.0	63.643	63.805	65.505	67.206	68.015
86.5	55.303	55.303	56.841	58.380	59.109
87.0	46.882	46.882	48.016	49.959	50.526
87.5	38.542	38.623	39.676	41.619	42.348
88.0	30.607	30.526	31.579	33.684	34.493
88.5	22.996	22.510	23.886	25.749	26.882
89.0	14.899	14.656	16.518	18.299	19.514
89.5	6.883	8.178	9.878	11.255	11.660
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.093	2.684	2.478	2.409	2.615
91.0	11.218	5.919	4.818	4.749	4.680
91.5	18.032	12.044	7.158	7.089	7.020
92.0	24.915	20.028	10.324	9.223	9.223
92.5	32.072	28.287	15.967	11.563	11.356
93.0	39.506	36.202	22.575	15.348	13.834
93.5	47.008	43.773	29.664	20.716	18.032
94.0	54.372	51.206	37.510	27.117	23.745
94.5	61.943	58.639	45.700	33.724	29.939
95.0	69.376	66.279	53.752	40.469	36.064
95.5	76.809	73.436	61.598	47.420	42.534
96.0	83.898	80.732	69.307	54.647	49.141
96.5	91.056	88.027	77.015	62.011	55.955
97.0	98.007	95.185	84.655	69.376	63.181
97.5	105.165	102.412	92.363	76.878	70.408
98.0	112.254	109.501	99.865	84.311	77.703
98.5	119.343	116.658	107.092	91.881	84.999
99.0	126.569	124.023	114.456	99.108	92.363
99.5	133.865	131.318	121.889	106.335	99.590
100.0	141.023	138.682	129.322	113.768	106.679
100.5	148.456	146.047	136.755	121.476	113.837
101.0	156.095	153.411	144.326	129.253	121.614
101.5	163.872	160.913	152.035	137.031	129.666
102.0	171.443	168.690	159.743	144.808	137.650
102.5	179.358	176.399	167.727	152.585	145.565
103.0	187.479	184.382	175.642	160.294	153.617
103.5	195.601	192.504	184.038	168.553	161.601
104.0	203.929	200.694	192.572	177.087	169.929
104.5	212.532	209.228	201.107	185.828	178.257
105.0	221.341	217.969	209.572	194.431	186.722
105.5	230.357	226.847	218.313	203.103	195.119
106.0	239.511	235.795	227.191	211.912	203.516
106.5	248.734	245.017	236.483	220.791	211.981
107.0	258.576	254.653	246.394	230.220	221.204
107.5	268.762	264.563	256.442	240.199	231.183
108.0	278.879	274.750	266.697	251.005	241.438
108.5	289.547	285.142	276.952	261.810	252.037
109.0	300.490	295.741	287.482	272.754	262.774
109.5	311.709	306.753	298.563	283.628	273.648
110.0	323.684	318.041	309.919	294.778	285.005
110.5	335.935	329.603	321.551	306.753	296.774

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111.0	348.324	341.716	333.595	319.211	308.611
111.5	360.987	354.174	345.846	331.874	320.794
112.0	374.133	366.975	358.028	344.538	332.425
112.5	387.347	380.121	370.348	357.133	344.745
113.0	401.181	393.679	383.355	370.141	357.615
113.5	415.428	407.857	397.120	384.181	371.449
114.0	429.881	422.310	411.711	399.116	386.797
114.5	444.816	437.245	426.578	414.671	403.108
115.0	459.958	452.593	441.994	430.363	419.626
115.5	475.788	468.079	457.824	445.986	435.938
116.0	491.755	484.184	474.205	462.435	452.525
116.5	508.617	500.702	491.136	479.298	470.213
117.0	526.167	517.564	508.204	497.467	488.451
117.5	539.107	530.710	523.827	514.192	506.965
118.0	555.625	546.058	539.864	531.467	523.414
118.5	574.827	564.365	556.244	547.503	538.212
119.0	593.616	582.398	574.827	565.673	554.661
119.5	612.612	601.600	594.511	584.118	573.106
120.0	632.227	621.490	614.264	604.284	592.584
120.5	651.704	641.656	634.636	625.688	613.369
121.0	672.145	662.235	655.146	647.024	635.462
121.5	692.380	682.607	675.587	668.635	657.073
122.0	713.716	703.392	697.198	690.315	678.753
122.5	734.363	724.039	718.533	711.651	699.262
123.0	755.699	746.063	740.557	735.051	721.975
123.5	777.723	768.087	763.958	758.452	745.375
124.0	799.747	790.800	786.670	781.852	769.464
124.5	821.771	812.824	809.383	804.565	792.864
125.0	843.795	834.848	831.407	827.277	815.577
125.5	866.507	857.560	854.119	849.989	837.601
126.0	888.531	879.584	877.519	872.702	859.625
126.5	910.555	901.608	900.920	896.790	883.025
127.0	933.268	924.320	924.320	920.879	907.802
127.5	955.980	946.344	946.344	944.280	932.579
128.0	978.004	968.368	969.057	967.680	955.980
128.5	1000.028	989.704	991.081	991.081	978.692
129.0	1022.052	1011.040	1013.105	1013.793	1002.093
129.5	1044.076	1033.064	1035.817	1037.193	1026.181
130.0	1066.100	1055.088	1058.529	1060.594	1051.647
130.5	1088.124	1076.424	1081.930	1083.306	1075.735
131.0	1110.148	1097.759	1103.954	1105.330	1097.759
131.5	1130.795	1118.407	1125.978	1125.978	1119.095
132.0	1152.131	1139.054	1147.313	1148.002	1139.743
132.5	1172.779	1160.390	1168.649	1169.337	1160.390
133.0	1193.426	1181.726	1189.297	1190.673	1180.349
133.5	1214.074	1202.374	1210.633	1212.009	1201.685
134.0	1234.721	1222.333	1230.592	1232.657	1222.333
134.5	1253.304	1242.292	1249.863	1251.239	1242.292
135.0	1271.887	1261.563	1268.446	1269.822	1260.187
135.5	1289.781	1281.522	1287.028	1287.717	1278.081
136.0	1307.676	1300.105	1304.235	1306.299	1296.664
136.5	1326.259	1318.000	1321.441	1324.882	1315.935
137.0	1343.465	1335.894	1339.335	1342.088	1333.829
137.5	1360.671	1352.412	1355.853	1357.918	1349.659
138.0	1377.189	1368.930	1371.683	1373.060	1364.801
138.5	1393.707	1384.760	1387.513	1388.201	1379.254

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1409.537	1400.590	1403.343	1403.343	1393.707
139.5	1425.367	1416.419	1418.484	1417.796	1407.472
140.0	1440.508	1430.873	1433.626	1432.937	1422.614
140.5	1454.961	1444.638	1447.391	1446.702	1435.690
141.0	1469.415	1459.091	1461.156	1459.779	1448.767
141.5	1482.491	1472.168	1474.921	1472.856	1460.467
142.0	1496.256	1485.933	1487.997	1485.244	1472.856
142.5	1509.333	1499.009	1501.074	1498.321	1484.556
143.0	1522.410	1511.398	1513.463	1510.710	1496.945
143.5	1534.798	1524.475	1525.851	1523.098	1508.645
144.0	1546.499	1536.863	1537.551	1534.110	1519.657
144.5	1558.199	1548.563	1549.252	1545.122	1530.669
145.0	1569.211	1560.264	1560.264	1555.446	1540.993
145.5	1580.911	1571.964	1571.276	1567.146	1552.005
146.0	1591.923	1582.976	1582.288	1577.470	1563.017
146.5	1602.935	1593.988	1592.611	1588.482	1574.029
147.0	1613.259	1605.000	1602.247	1599.494	1585.041
147.5	1623.583	1615.324	1612.571	1609.818	1595.365
148.0	1633.907	1625.648	1621.518	1619.453	1606.377
148.5	1644.230	1635.971	1630.465	1629.089	1617.389
149.0	1653.866	1646.295	1639.413	1638.724	1628.401
149.5	1663.501	1655.931	1647.672	1648.360	1638.724
150.0	1673.137	1665.566	1656.619	1657.307	1648.360
150.5	1682.772	1675.202	1664.878	1665.566	1657.995
151.0	1691.720	1684.149	1673.137	1673.825	1666.943
151.5	1701.355	1693.096	1682.084	1682.084	1675.202
152.0	1710.302	1702.043	1690.343	1689.655	1683.461
152.5	1719.250	1710.302	1698.602	1697.914	1691.031
153.0	1728.197	1718.561	1706.861	1706.173	1697.914
153.5	1736.456	1726.820	1715.120	1714.432	1704.108
154.0	1744.715	1735.079	1724.067	1722.691	1710.991
154.5	1753.662	1742.650	1732.326	1730.262	1717.873
155.0	1761.921	1750.221	1740.585	1738.521	1725.444
155.5	1769.492	1757.103	1748.844	1746.780	1733.015
156.0	1777.063	1764.674	1757.792	1754.350	1740.585
156.5	1784.633	1772.245	1766.051	1762.609	1748.156
157.0	1792.204	1779.816	1774.310	1770.868	1755.727
157.5	1799.087	1786.698	1781.880	1778.439	1763.298
158.0	1805.969	1793.581	1789.451	1786.010	1770.868
158.5	1813.540	1801.151	1797.022	1793.581	1779.127
159.0	1819.734	1808.034	1803.904	1801.151	1786.698
159.5	1826.617	1814.916	1810.787	1808.722	1794.269
160.0	1832.811	1821.111	1817.669	1815.605	1801.840
160.5	1839.005	1827.305	1823.864	1822.487	1809.410
161.0	1845.199	1833.499	1830.058	1829.370	1816.981
161.5	1851.394	1840.382	1835.564	1836.252	1824.552
162.0	1858.276	1846.576	1841.070	1843.135	1831.434
162.5	1864.470	1852.770	1846.576	1849.329	1837.629
163.0	1870.665	1858.964	1852.082	1855.523	1843.823
163.5	1876.859	1864.470	1857.588	1861.717	1849.329
164.0	1883.053	1869.976	1862.406	1867.223	1854.835
164.5	1887.871	1875.482	1867.223	1872.729	1860.341
165.0	1893.377	1880.988	1872.041	1878.235	1865.159
165.5	1898.883	1885.806	1876.859	1883.053	1869.976
166.0	1904.389	1890.624	1881.677	1887.871	1874.106
166.5	1909.895	1895.442	1886.494	1892.000	1878.924

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-L12-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1914.713	1899.571	1890.624	1896.130	1883.053
167.5	1919.530	1903.701	1895.442	1900.259	1887.871
168.0	1924.348	1907.830	1899.571	1904.389	1892.000
168.5	1929.166	1911.960	1903.701	1908.518	1896.818
169.0	1933.295	1915.401	1907.830	1911.960	1900.948
169.5	1936.737	1918.842	1911.271	1915.401	1905.077
170.0	1940.178	1922.283	1914.713	1918.842	1909.895
170.5	1943.619	1925.725	1917.466	1922.283	1913.336
171.0	1947.060	1928.478	1920.219	1925.725	1916.777
171.5	1949.813	1931.231	1922.972	1929.166	1920.219
172.0	1952.566	1933.984	1925.036	1931.919	1922.972
172.5	1955.319	1936.737	1927.101	1933.984	1925.036
173.0	1958.072	1939.490	1929.166	1936.737	1926.413
173.5	1960.137	1941.554	1931.231	1938.113	1927.789
174.0	1962.202	1943.619	1933.295	1939.490	1928.478
174.5	1963.578	1944.996	1934.672	1940.866	1929.166
175.0	1964.955	1947.060	1936.048	1941.554	1929.166
175.5	1966.331	1948.437	1938.113	1942.243	1929.854
176.0	1967.708	1949.813	1939.490	1942.243	1929.854
176.5	1968.396	1951.190	1940.178	1942.931	1929.854
177.0	1969.084	1952.566	1941.554	1942.931	1929.166
177.5	1970.461	1953.943	1942.931	1942.931	1929.166
178.0	1971.149	1953.943	1943.619	1942.931	1929.854
178.5	1971.149	1954.631	1944.307	1942.931	1929.854
179.0	1971.837	1955.319	1944.307	1942.931	1929.854
179.5	1972.526	1955.319	1944.996	1942.931	1929.854
180.0	1948.437	1948.437	1948.437	1948.437	1948.437

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-L12-950D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	697.64	N.A.	7.00
0-30	1458.52	N.A.	14.70
0-40	2343.13	N.A.	23.70
0-60	3981.51	N.A.	40.20
0-80	4875.8	N.A.	49.30
0-90	4970.29	N.A.	50.20
10-90	4788.2	N.A.	48.40
20-40	1645.49	N.A.	16.60
20-50	2523.65	N.A.	25.50
40-70	2207.76	N.A.	22.30
60-80	894.29	N.A.	9.00
70-80	324.91	N.A.	3.30
80-90	94.49	N.A.	1.00
90-110	281.97	N.A.	2.80
90-120	723.85	N.A.	7.30
90-130	1466.4	N.A.	14.80
90-150	3410.73	N.A.	34.50
90-180	4929.41	N.A.	49.80
110-180	4647.44	N.A.	46.90
0-180	9899.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.10
10-20	515.54
20-30	760.88
30-40	884.61
40-50	878.16
50-60	760.22
60-70	569.39
70-80	324.91
80-90	94.49
90-100	60.82
100-110	221.16
110-120	441.88
120-130	742.55
130-140	970.95
140-150	973.38
150-160	804.06
160-170	529.84
170-180	184.77

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-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	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	47	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-L15-950U-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	16.8	17.7	17.8	18.7	19.9	UGR Viewed Endwise			
	3H	18.6	19.4	19.6	20.3	21.6	16.7	17.6	17.7	18.6
	4H	19.2	19.9	20.2	20.9	22.2	18.5	19.3	19.5	20.3
	6H	19.6	20.3	20.6	21.3	22.6	19.1	19.9	20.1	20.8
	8H	19.8	20.4	20.8	21.4	22.7	19.6	20.3	20.6	21.3
	12H	19.8	20.5	20.8	21.5	22.8	19.7	20.4	20.7	21.4

4H	2H	17.4	18.1	18.4	19.1	20.4	19.8	20.4	20.8	21.4	22.8
	3H	19.3	19.9	20.3	21.0	22.3	16.7	17.6	17.7	18.6	19.8
	4H	20.1	20.6	21.1	21.6	23.0	18.5	19.3	19.5	20.3	21.5
	6H	20.6	21.1	21.6	22.1	23.5	19.1	19.9	20.1	20.8	22.1
	8H	20.8	21.3	21.8	22.3	23.6	19.6	20.3	20.6	21.3	22.6
	12H	20.9	21.3	22.0	22.4	23.7	19.7	20.4	20.7	21.4	22.7

8H	4H	20.3	20.8	21.3	21.8	23.1	20.6	21.1	21.6	22.1	23.5
	6H	21.0	21.4	22.0	22.4	23.8	20.8	21.3	21.8	22.3	23.6
	8H	21.3	21.6	22.3	22.6	24.0	20.9	21.3	22.0	22.4	23.7
	12H	21.5	21.7	22.5	22.8	24.2	20.3	20.7	21.3	21.7	23.1

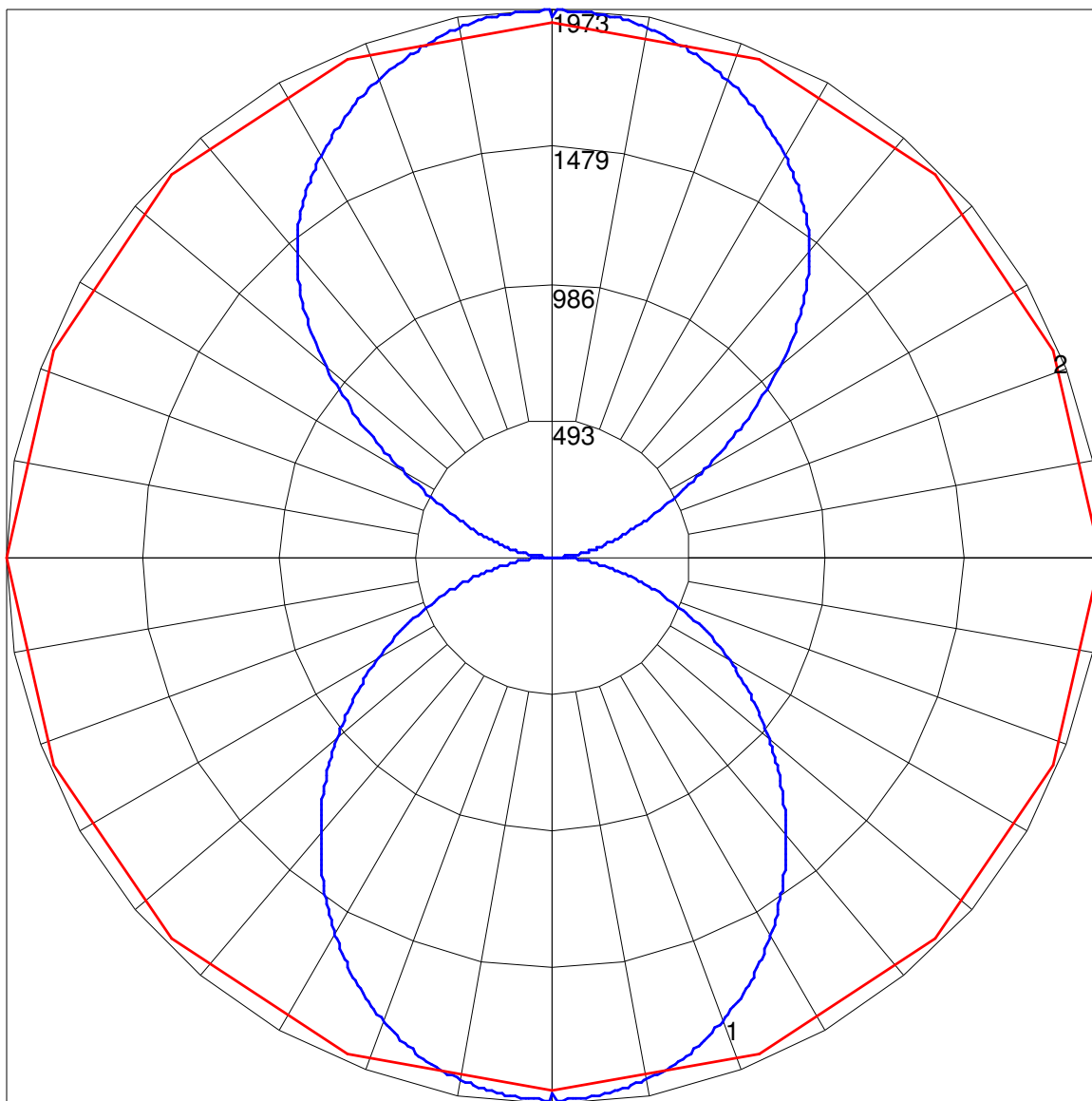
12H	4H	20.3	20.7	21.3	21.8	23.1	21.0	21.4	22.0	22.4	23.8
	6H	21.0	21.4	22.1	22.4	23.8	21.3	21.6	22.3	22.7	24.0
	8H	21.3	21.6	22.4	22.7	24.1	21.5	21.8	22.6	22.8	24.2

Maximum UGR = 24.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-950U-L12-950D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1972.526 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.)