

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-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-L12-850U-L12-850D-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	10499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	14285	13927	13768
55	13131	12813	12678
65	12111	11819	11691
75	10271	10265	10260
85	8022	8344	8585

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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	2072.722	2072.722	2072.722	2072.722	2072.722
0.5	2104.021	2074.461	2064.027	2068.375	2061.419
1.0	2104.021	2073.591	2064.027	2068.375	2061.419
1.5	2103.152	2072.722	2063.158	2068.375	2060.550
2.0	2102.282	2071.852	2062.289	2067.505	2060.550
2.5	2101.413	2070.983	2060.550	2066.636	2059.680
3.0	2099.674	2069.244	2059.680	2065.766	2057.941
3.5	2097.935	2067.505	2057.941	2064.027	2056.203
4.0	2096.196	2065.766	2056.203	2062.289	2054.464
4.5	2094.457	2063.158	2054.464	2060.550	2051.855
5.0	2092.719	2061.419	2051.855	2057.941	2049.247
5.5	2090.110	2058.811	2049.247	2055.333	2046.639
6.0	2087.502	2055.333	2046.639	2052.725	2043.161
6.5	2084.024	2052.725	2043.161	2049.247	2040.553
7.0	2081.416	2049.247	2040.553	2045.769	2037.075
7.5	2078.808	2045.769	2037.075	2042.292	2034.467
8.0	2074.461	2042.292	2032.728	2038.814	2030.989
8.5	2070.983	2037.944	2028.381	2034.467	2026.642
9.0	2066.636	2034.467	2024.903	2030.120	2022.295
9.5	2062.289	2030.120	2019.686	2024.903	2017.948
10.0	2057.941	2025.772	2015.339	2020.556	2012.731
10.5	2052.725	2020.556	2010.123	2015.339	2008.384
11.0	2048.378	2015.339	2004.906	2010.123	2002.298
11.5	2042.292	2010.123	1999.690	2004.906	1997.081
12.0	2037.075	2004.906	1994.473	1998.820	1990.995
12.5	2031.858	1998.820	1988.387	1992.734	1984.909
13.0	2025.772	1993.604	1982.301	1986.648	1978.823
13.5	2019.686	1986.648	1976.215	1979.693	1972.737
14.0	2013.600	1980.562	1969.259	1973.607	1966.651
14.5	2007.514	1974.476	1962.304	1966.651	1959.696
15.0	2001.428	1967.521	1955.349	1959.696	1952.740
15.5	1993.604	1961.435	1948.393	1951.871	1944.915
16.0	1984.909	1954.479	1940.568	1944.915	1937.960
16.5	1976.215	1946.654	1932.743	1937.091	1930.135
17.0	1968.390	1938.829	1924.919	1929.266	1922.310
17.5	1959.696	1930.135	1916.224	1920.571	1913.616
18.0	1951.001	1921.441	1907.530	1911.877	1904.922
18.5	1942.307	1912.747	1898.836	1902.313	1896.227
19.0	1933.613	1904.052	1891.011	1893.619	1885.794
19.5	1924.049	1895.358	1882.316	1883.186	1875.361
20.0	1915.355	1885.794	1874.492	1873.622	1864.928
20.5	1905.791	1877.100	1865.797	1863.189	1854.495
21.0	1896.227	1867.536	1856.234	1852.756	1843.192
21.5	1885.794	1857.972	1845.800	1842.323	1831.890
22.0	1876.230	1847.539	1834.498	1831.020	1821.456
22.5	1865.797	1837.106	1824.065	1819.717	1810.154
23.0	1855.364	1826.673	1813.631	1807.545	1798.851
23.5	1844.931	1816.240	1802.329	1796.243	1788.418
24.0	1833.628	1805.807	1791.896	1784.940	1777.115
24.5	1822.326	1794.504	1780.593	1773.638	1765.813
25.0	1811.893	1783.201	1769.291	1762.335	1754.510
25.5	1800.590	1771.899	1757.119	1751.032	1742.338
26.0	1788.418	1759.727	1745.816	1739.730	1731.036
26.5	1777.115	1748.424	1733.644	1728.427	1719.733

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27.0	1764.943	1736.252	1721.472	1717.125	1707.561
27.5	1752.771	1724.080	1710.169	1705.822	1696.258
28.0	1740.599	1711.039	1697.128	1693.650	1684.086
28.5	1727.558	1697.997	1684.956	1682.348	1671.914
29.0	1714.516	1685.825	1672.784	1670.175	1659.742
29.5	1702.344	1672.784	1660.612	1657.134	1648.440
30.0	1689.303	1659.742	1648.440	1644.962	1636.268
30.5	1676.261	1646.701	1635.398	1632.790	1624.096
31.0	1662.351	1634.529	1622.357	1619.749	1611.924
31.5	1649.309	1621.487	1609.315	1606.707	1598.882
32.0	1635.398	1607.577	1596.274	1592.796	1585.841
32.5	1621.487	1594.535	1583.232	1579.755	1571.930
33.0	1607.577	1581.494	1570.191	1566.713	1558.019
33.5	1594.535	1567.583	1556.280	1552.802	1544.978
34.0	1579.755	1553.672	1543.239	1538.892	1531.067
34.5	1565.844	1539.761	1528.458	1524.981	1516.286
35.0	1551.933	1526.719	1514.547	1511.070	1501.506
35.5	1537.153	1511.939	1500.637	1497.159	1486.726
36.0	1522.372	1498.028	1486.726	1482.379	1472.815
36.5	1508.461	1484.117	1472.815	1468.468	1458.904
37.0	1493.681	1469.337	1458.035	1453.687	1444.124
37.5	1478.901	1454.557	1444.124	1438.907	1430.213
38.0	1463.251	1439.776	1429.343	1424.127	1415.432
38.5	1448.471	1424.996	1414.563	1410.216	1400.652
39.0	1434.560	1410.216	1399.783	1395.436	1386.741
39.5	1418.910	1395.436	1385.872	1380.655	1371.091
40.0	1404.130	1379.786	1371.091	1365.875	1357.181
40.5	1388.480	1365.005	1356.311	1351.095	1342.400
41.0	1373.700	1349.356	1341.531	1335.445	1326.751
41.5	1358.050	1334.575	1325.881	1320.665	1311.101
42.0	1343.270	1318.926	1311.101	1305.884	1296.320
42.5	1328.489	1304.145	1296.320	1290.234	1281.540
43.0	1312.840	1289.365	1281.540	1275.454	1265.890
43.5	1298.059	1273.715	1265.890	1260.674	1251.110
44.0	1282.410	1258.066	1250.241	1245.024	1236.330
44.5	1266.760	1242.416	1234.591	1229.374	1220.680
45.0	1251.110	1227.635	1219.811	1213.725	1205.900
45.5	1236.330	1211.986	1204.161	1198.944	1191.119
46.0	1220.680	1196.336	1188.511	1183.295	1176.339
46.5	1205.030	1180.686	1173.731	1168.514	1161.559
47.0	1189.381	1165.037	1158.081	1152.864	1145.909
47.5	1172.861	1149.387	1142.431	1137.215	1131.129
48.0	1157.212	1133.737	1126.782	1122.434	1115.479
48.5	1141.562	1118.087	1112.001	1106.785	1099.829
49.0	1125.043	1102.438	1096.352	1091.135	1085.049
49.5	1109.393	1086.788	1080.702	1076.355	1070.269
50.0	1092.874	1071.138	1065.052	1060.705	1054.619
50.5	1076.355	1055.488	1049.402	1045.055	1039.839
51.0	1059.835	1039.839	1033.753	1029.405	1024.189
51.5	1044.186	1024.189	1018.103	1014.625	1008.539
52.0	1028.536	1008.539	1002.453	998.975	993.759
52.5	1012.017	992.889	986.803	984.195	978.109
53.0	996.367	977.240	971.154	968.545	962.459
53.5	979.848	961.590	955.504	952.896	946.810
54.0	964.198	945.940	940.724	938.115	931.160
54.5	948.548	931.160	925.074	922.465	915.510

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55.0	932.899	916.379	910.293	907.685	900.730
55.5	918.118	900.730	894.644	892.035	885.949
56.0	901.599	885.080	878.994	877.255	870.300
56.5	885.949	870.300	863.779	861.866	854.998
57.0	871.169	854.650	848.390	846.303	839.783
57.5	855.867	839.522	833.088	831.175	824.394
58.0	840.565	824.568	817.699	815.960	809.179
58.5	825.176	809.526	802.571	801.006	794.572
59.0	810.048	794.398	787.356	785.878	779.705
59.5	795.355	779.096	771.880	770.837	765.012
60.0	780.314	763.881	756.578	755.709	750.057
60.5	765.446	749.014	741.798	740.494	734.929
61.0	750.840	734.147	727.105	725.626	720.149
61.5	735.190	719.454	712.498	710.846	705.543
62.0	719.801	704.325	697.370	696.153	690.588
62.5	704.065	690.328	683.111	682.155	676.417
63.0	688.936	677.982	672.156	671.722	667.027
63.5	673.635	664.506	659.898	658.941	654.072
64.0	664.419	651.377	647.204	645.291	639.727
64.5	650.073	637.379	632.858	631.119	625.903
65.0	633.989	622.425	618.687	617.035	611.992
65.5	617.556	607.297	603.906	603.124	597.994
66.0	601.733	592.517	589.474	589.126	583.649
66.5	586.083	577.389	574.780	574.780	569.912
67.0	570.607	562.347	560.261	560.522	556.088
67.5	555.392	547.567	545.654	546.176	541.829
68.0	540.003	532.787	531.048	531.744	527.222
68.5	524.527	517.746	516.355	517.311	512.877
69.0	508.530	502.618	501.574	502.096	498.010
69.5	492.967	487.750	486.533	487.142	483.403
70.0	477.578	472.709	471.840	472.101	468.797
70.5	462.450	457.581	456.973	457.233	454.103
71.0	446.974	442.540	442.366	442.714	439.323
71.5	431.498	427.499	427.847	428.107	425.151
72.0	416.457	412.371	413.066	413.414	410.893
72.5	401.416	397.504	398.634	398.982	396.895
73.0	386.549	382.984	384.549	384.984	383.158
73.5	372.116	368.638	370.464	371.247	369.247
74.0	357.858	354.293	356.553	357.162	355.858
74.5	343.599	340.208	342.729	343.338	342.382
75.0	329.253	326.210	329.079	329.688	328.905
75.5	315.081	312.212	315.516	316.299	315.429
76.0	300.736	298.736	302.127	302.996	302.301
76.5	287.173	285.434	288.825	289.781	289.173
77.0	273.957	272.045	275.783	276.653	275.696
77.5	260.307	259.003	262.742	263.437	262.481
78.0	247.005	245.962	249.700	250.744	249.787
78.5	233.790	233.268	236.833	238.050	237.268
79.0	221.096	220.574	224.226	225.704	225.096
79.5	208.402	208.142	211.793	213.358	212.836
80.0	195.883	195.970	199.360	201.534	200.838
80.5	183.276	184.058	187.536	189.623	189.101
81.0	171.191	172.408	175.799	177.972	177.625
81.5	159.541	160.845	164.322	166.496	166.235
82.0	148.673	149.542	153.107	155.367	155.106
82.5	137.805	138.587	142.065	144.325	144.151

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83.0	126.937	128.154	131.197	133.545	133.718
83.5	116.243	117.721	120.677	122.937	123.459
84.0	106.244	107.462	110.244	112.417	113.200
84.5	96.072	97.376	99.984	102.158	102.941
85.0	86.595	87.639	90.073	91.986	92.681
85.5	77.379	77.901	79.988	81.987	82.683
86.0	68.337	68.511	70.337	72.163	73.032
86.5	59.382	59.382	61.034	62.686	63.468
87.0	50.340	50.340	51.557	53.644	54.252
87.5	41.385	41.472	42.602	44.689	45.471
88.0	32.864	32.778	33.908	36.168	37.038
88.5	24.692	24.170	25.648	27.648	28.865
89.0	15.997	15.737	17.736	19.649	20.953
89.5	7.390	8.781	10.607	12.085	12.520
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.333	2.811	2.595	2.523	2.739
91.0	11.748	6.198	5.045	4.973	4.901
91.5	18.883	12.613	7.496	7.423	7.351
92.0	26.090	20.973	10.811	9.658	9.658
92.5	33.586	29.622	16.721	12.108	11.892
93.0	41.370	37.910	23.640	16.072	14.487
93.5	49.226	45.838	31.063	21.694	18.883
94.0	56.937	53.622	39.280	28.397	24.865
94.5	64.865	61.406	47.856	35.316	31.352
95.0	72.649	69.406	56.289	42.379	37.766
95.5	80.433	76.902	64.505	49.658	44.541
96.0	87.857	84.541	72.577	57.226	51.460
96.5	95.352	92.181	80.649	64.938	58.595
97.0	102.632	99.677	88.649	72.649	66.163
97.5	110.127	107.244	96.722	80.505	73.730
98.0	117.551	114.668	104.578	88.289	81.370
98.5	124.974	122.163	112.145	96.217	89.010
99.0	132.542	129.875	119.857	103.785	96.722
99.5	140.181	137.515	127.641	111.352	104.289
100.0	147.677	145.227	135.425	119.136	111.713
100.5	155.461	152.938	143.209	127.208	119.208
101.0	163.461	160.650	151.137	135.353	127.353
101.5	171.605	168.506	159.209	143.497	135.785
102.0	179.533	176.650	167.281	151.641	144.145
102.5	187.822	184.722	175.641	159.785	152.434
103.0	196.326	193.083	183.930	167.857	160.866
103.5	204.831	201.587	192.722	176.506	169.227
104.0	213.551	210.164	201.659	185.443	177.948
104.5	222.561	219.101	210.597	194.596	186.668
105.0	231.786	228.254	219.461	203.605	195.533
105.5	241.227	237.552	228.615	212.687	204.326
106.0	250.813	246.921	237.912	221.912	213.119
106.5	260.471	256.579	247.642	231.209	221.984
107.0	270.777	266.669	258.020	241.083	231.642
107.5	281.444	277.048	268.543	251.534	242.092
108.0	292.039	287.714	279.282	262.849	252.831
108.5	303.210	298.597	290.021	274.165	263.930
109.0	314.670	309.696	301.048	285.624	275.174
109.5	326.417	321.228	312.651	297.012	286.561
110.0	338.958	333.048	324.543	308.687	298.453
110.5	351.787	345.156	336.724	321.228	310.778

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111.0	364.760	357.841	349.336	334.273	323.174
111.5	378.021	370.886	362.165	347.535	335.931
112.0	391.787	384.292	374.922	360.796	348.111
112.5	405.625	398.058	387.823	373.985	361.012
113.0	420.112	412.256	401.445	387.607	374.490
113.5	435.031	427.103	415.860	402.310	388.976
114.0	450.166	442.238	431.139	417.950	405.049
114.5	465.806	457.878	446.707	434.238	422.130
115.0	481.662	473.950	462.851	450.671	439.427
115.5	498.239	490.167	479.428	467.031	456.509
116.0	514.960	507.032	496.581	484.257	473.878
116.5	532.617	524.329	514.311	501.914	492.401
117.0	550.996	541.987	532.185	520.942	511.500
117.5	564.546	555.753	548.546	538.455	530.888
118.0	581.843	571.825	565.338	556.546	548.113
118.5	601.951	590.996	582.492	573.339	563.609
119.0	621.627	609.879	601.951	592.366	580.834
119.5	641.519	629.988	622.564	611.681	600.150
120.0	662.060	650.817	643.249	632.799	620.546
120.5	682.457	671.934	664.583	655.213	642.312
121.0	703.862	693.484	686.060	677.556	665.447
121.5	725.052	714.817	707.466	700.187	688.078
122.0	747.394	736.583	730.097	722.889	710.781
122.5	769.016	758.205	752.439	745.232	732.259
123.0	791.359	781.268	775.503	769.737	756.043
123.5	814.422	804.332	800.007	794.241	780.548
124.0	837.485	828.116	823.791	818.746	805.773
124.5	860.548	851.179	847.575	842.530	830.278
125.0	883.612	874.242	870.639	866.314	854.062
125.5	907.396	898.026	894.423	890.098	877.125
126.0	930.459	921.089	918.927	913.882	900.188
126.5	953.522	944.153	943.432	939.108	924.693
127.0	977.306	967.937	967.937	964.333	950.639
127.5	1001.090	991.000	991.000	988.838	976.585
128.0	1024.153	1014.063	1014.784	1013.343	1001.090
128.5	1047.217	1036.406	1037.847	1037.847	1024.874
129.0	1070.280	1058.748	1060.911	1061.631	1049.379
129.5	1093.343	1081.812	1084.695	1086.136	1074.604
130.0	1116.407	1104.875	1108.479	1110.641	1101.271
130.5	1139.470	1127.217	1132.983	1134.425	1126.497
131.0	1162.533	1149.560	1156.047	1157.488	1149.560
131.5	1184.155	1171.182	1179.110	1179.110	1171.903
132.0	1206.497	1192.804	1201.452	1202.173	1193.524
132.5	1228.119	1215.146	1223.795	1224.516	1215.146
133.0	1249.741	1237.489	1245.417	1246.858	1236.047
133.5	1271.363	1259.111	1267.759	1269.201	1258.390
134.0	1292.985	1280.012	1288.660	1290.823	1280.012
134.5	1312.444	1300.913	1308.841	1310.282	1300.913
135.0	1331.904	1321.093	1328.300	1329.742	1319.652
135.5	1350.643	1341.994	1347.760	1348.481	1338.390
136.0	1369.382	1361.454	1365.778	1367.940	1357.850
136.5	1388.841	1380.193	1383.796	1387.400	1378.030
137.0	1406.860	1398.932	1402.535	1405.418	1396.769
137.5	1424.878	1416.229	1419.833	1421.995	1413.346
138.0	1442.175	1433.526	1436.409	1437.851	1429.202
138.5	1459.473	1450.103	1452.986	1453.707	1444.337

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1476.049	1466.680	1469.563	1469.563	1459.473
139.5	1492.626	1483.257	1485.419	1484.698	1473.887
140.0	1508.482	1498.392	1501.275	1500.554	1489.743
140.5	1523.617	1512.806	1515.689	1514.969	1503.437
141.0	1538.753	1527.942	1530.104	1528.662	1517.131
141.5	1552.446	1541.636	1544.518	1542.356	1529.383
142.0	1566.861	1556.050	1558.212	1555.329	1542.356
142.5	1580.555	1569.744	1571.906	1569.023	1554.609
143.0	1594.249	1582.717	1584.879	1581.996	1567.582
143.5	1607.222	1596.411	1597.852	1594.969	1579.834
144.0	1619.474	1609.384	1610.105	1606.501	1591.366
144.5	1631.726	1621.636	1622.357	1618.033	1602.897
145.0	1643.258	1633.889	1633.889	1628.844	1613.708
145.5	1655.510	1646.141	1645.420	1641.096	1625.240
146.0	1667.042	1657.673	1656.952	1651.907	1636.772
146.5	1678.574	1669.204	1667.763	1663.438	1648.303
147.0	1689.385	1680.736	1677.853	1674.970	1659.835
147.5	1700.196	1691.547	1688.664	1685.781	1670.646
148.0	1711.006	1702.358	1698.033	1695.871	1682.177
148.5	1721.817	1713.169	1707.403	1705.961	1693.709
149.0	1731.908	1723.980	1716.772	1716.052	1705.241
149.5	1741.998	1734.070	1725.421	1726.142	1716.052
150.0	1752.088	1744.160	1734.790	1735.511	1726.142
150.5	1762.178	1754.250	1743.439	1744.160	1736.232
151.0	1771.548	1763.620	1752.088	1752.809	1745.601
151.5	1781.638	1772.989	1761.457	1761.457	1754.250
152.0	1791.007	1782.358	1770.106	1769.385	1762.899
152.5	1800.377	1791.007	1778.755	1778.034	1770.827
153.0	1809.746	1799.656	1787.404	1786.683	1778.034
153.5	1818.395	1808.305	1796.052	1795.332	1784.521
154.0	1827.044	1816.953	1805.422	1803.980	1791.728
154.5	1836.413	1824.881	1814.070	1811.908	1798.935
155.0	1845.062	1832.809	1822.719	1820.557	1806.863
155.5	1852.990	1840.017	1831.368	1829.206	1814.791
156.0	1860.918	1847.945	1840.737	1837.134	1822.719
156.5	1868.846	1855.873	1849.386	1845.782	1830.647
157.0	1876.774	1863.801	1858.035	1854.431	1838.575
157.5	1883.981	1871.008	1865.963	1862.359	1846.503
158.0	1891.188	1878.215	1873.891	1870.287	1854.431
158.5	1899.116	1886.143	1881.819	1878.215	1863.080
159.0	1905.603	1893.350	1889.026	1886.143	1871.008
159.5	1912.810	1900.558	1896.233	1894.071	1878.936
160.0	1919.297	1907.044	1903.441	1901.278	1886.864
160.5	1925.783	1913.531	1909.927	1908.486	1894.792
161.0	1932.270	1920.017	1916.414	1915.693	1902.720
161.5	1938.756	1927.225	1922.180	1922.900	1910.648
162.0	1945.964	1933.711	1927.945	1930.108	1917.855
162.5	1952.450	1940.198	1933.711	1936.594	1924.342
163.0	1958.937	1946.684	1939.477	1943.081	1930.828
163.5	1965.423	1952.450	1945.243	1949.567	1936.594
164.0	1971.910	1958.216	1950.288	1955.333	1942.360
164.5	1976.955	1963.982	1955.333	1961.099	1948.126
165.0	1982.721	1969.748	1960.378	1966.865	1953.171
165.5	1988.486	1974.793	1965.423	1971.910	1958.216
166.0	1994.252	1979.838	1970.468	1976.955	1962.540
166.5	2000.018	1984.883	1975.513	1981.279	1967.585

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2005.063	1989.207	1979.838	1985.604	1971.910
167.5	2010.108	1993.532	1984.883	1989.928	1976.955
168.0	2015.153	1997.856	1989.207	1994.252	1981.279
168.5	2020.198	2002.180	1993.532	1998.577	1986.324
169.0	2024.523	2005.784	1997.856	2002.180	1990.649
169.5	2028.126	2009.388	2001.460	2005.784	1994.973
170.0	2031.730	2012.991	2005.063	2009.388	2000.018
170.5	2035.334	2016.595	2007.946	2012.991	2003.622
171.0	2038.937	2019.478	2010.829	2016.595	2007.225
171.5	2041.820	2022.361	2013.712	2020.198	2010.829
172.0	2044.703	2025.244	2015.874	2023.081	2013.712
172.5	2047.586	2028.126	2018.036	2025.244	2015.874
173.0	2050.469	2031.009	2020.198	2028.126	2017.316
173.5	2052.631	2033.172	2022.361	2029.568	2018.757
174.0	2054.793	2035.334	2024.523	2031.009	2019.478
174.5	2056.235	2036.775	2025.964	2032.451	2020.198
175.0	2057.676	2038.937	2027.406	2033.172	2020.198
175.5	2059.118	2040.379	2029.568	2033.892	2020.919
176.0	2060.559	2041.820	2031.009	2033.892	2020.919
176.5	2061.280	2043.262	2031.730	2034.613	2020.919
177.0	2062.001	2044.703	2033.172	2034.613	2020.198
177.5	2063.442	2046.145	2034.613	2034.613	2020.198
178.0	2064.163	2046.145	2035.334	2034.613	2020.919
178.5	2064.163	2046.865	2036.054	2034.613	2020.919
179.0	2064.884	2047.586	2036.054	2034.613	2020.919
179.5	2065.604	2047.586	2036.775	2034.613	2020.919
180.0	2040.379	2040.379	2040.379	2040.379	2040.379

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	749.09	N.A.	7.10
0-30	1566.1	N.A.	14.90
0-40	2515.96	N.A.	24.00
0-60	4275.18	N.A.	40.70
0-80	5235.44	N.A.	49.90
0-90	5336.9	N.A.	50.80
10-90	5141.37	N.A.	49.00
20-40	1766.87	N.A.	16.80
20-50	2709.79	N.A.	25.80
40-70	2370.61	N.A.	22.60
60-80	960.26	N.A.	9.10
70-80	348.87	N.A.	3.30
80-90	101.46	N.A.	1.00
90-110	295.28	N.A.	2.80
90-120	758.01	N.A.	7.20
90-130	1535.6	N.A.	14.60
90-150	3571.68	N.A.	34.00
90-180	5162.02	N.A.	49.20
110-180	4866.74	N.A.	46.40
0-180	10498.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.53
10-20	553.57
20-30	817.00
30-40	949.86
40-50	942.93
50-60	816.29
60-70	611.39
70-80	348.87
80-90	101.46
90-100	63.69
100-110	231.59
110-120	462.73
120-130	777.59
130-140	1016.77
140-150	1019.31
150-160	842.00
160-170	554.85
170-180	193.49

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-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-L12-850U-L12-850D-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	17.1	18.0	18.1	19.0	20.2	17.0	17.9	18.0	18.9	20.1
	3H	18.9	19.7	19.9	20.7	21.9	18.8	19.6	19.8	20.6	21.8
	4H	19.5	20.3	20.5	21.2	22.5	19.4	20.2	20.4	21.2	22.4
	6H	19.9	20.6	20.9	21.6	22.9	19.9	20.6	20.9	21.6	22.9
	8H	20.1	20.7	21.1	21.7	23.0	20.0	20.7	21.0	21.7	23.0
	12H	20.2	20.8	21.2	21.8	23.1	20.1	20.8	21.1	21.8	23.1

UGR Viewed Endwise

4H	2H	17.7	18.4	18.6	19.4	20.7	17.6	18.3	18.6	19.3	20.6
	3H	19.6	20.3	20.6	21.3	22.6	19.6	20.2	20.6	21.2	22.5
	4H	20.4	20.9	21.4	21.9	23.3	20.3	20.9	21.3	21.9	23.2
	6H	20.9	21.4	21.9	22.4	23.8	20.9	21.4	21.9	22.4	23.7
	8H	21.1	21.6	22.1	22.6	23.9	21.1	21.6	22.1	22.6	23.9
	12H	21.2	21.6	22.2	22.7	24.0	21.2	21.7	22.3	22.7	24.0

8H	4H	20.6	21.1	21.6	22.1	23.4	20.6	21.0	21.6	22.0	23.4
	6H	21.3	21.7	22.3	22.7	24.1	21.3	21.7	22.3	22.7	24.1
	8H	21.6	21.9	22.6	22.9	24.3	21.6	21.9	22.6	23.0	24.3
	12H	21.8	22.1	22.8	23.1	24.5	21.8	22.1	22.8	23.1	24.5

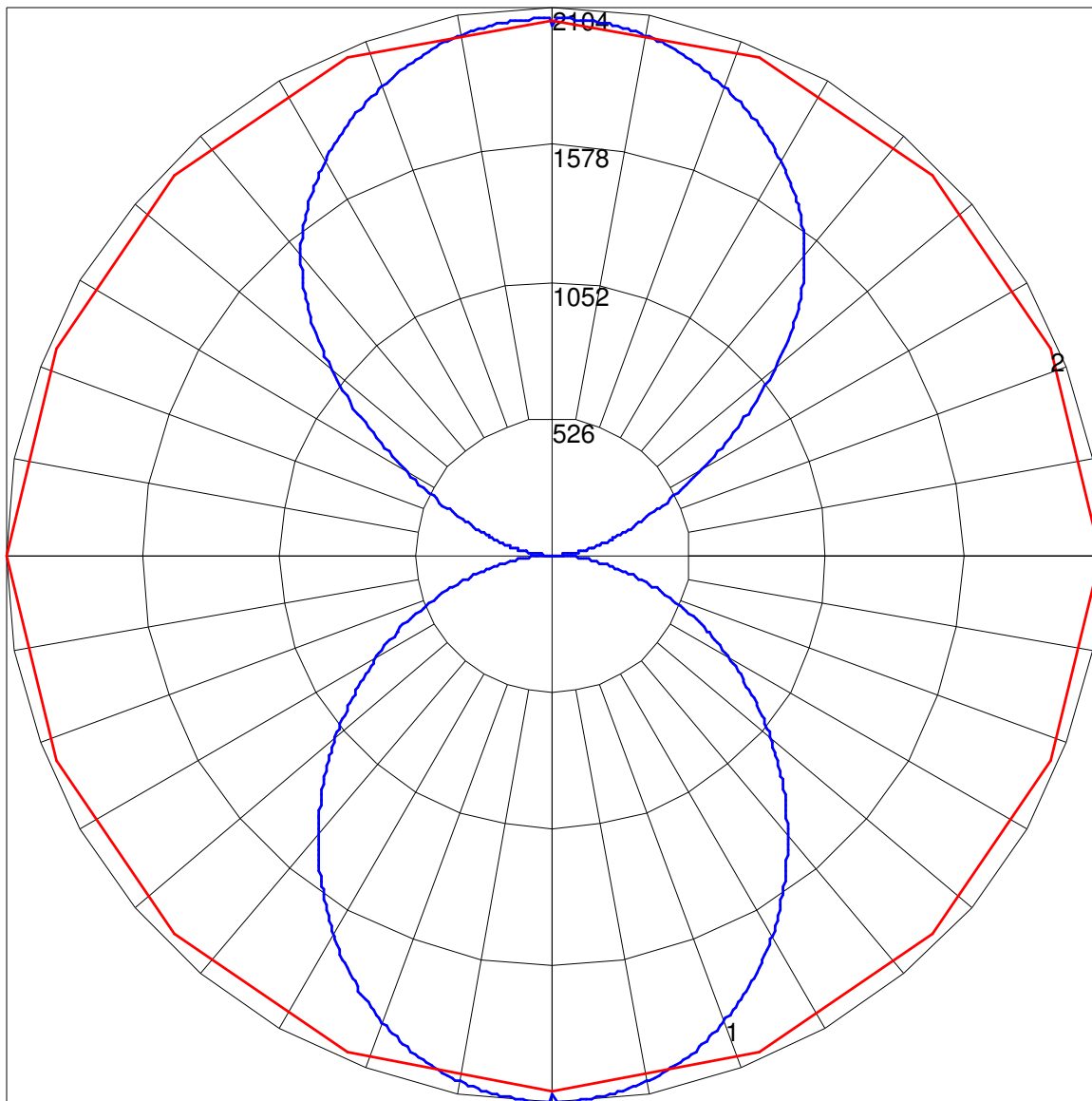
12H	4H	20.6	21.0	21.6	22.1	23.4	20.6	21.0	21.6	22.0	23.4
	6H	21.4	21.7	22.4	22.7	24.1	21.3	21.7	22.4	22.7	24.1
	8H	21.6	21.9	22.7	23.0	24.4	21.7	22.0	22.7	23.0	24.4

Maximum UGR = 24.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-850U-L12-850D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2104.021 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.)