

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-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-L15-850U-L15-850D-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	12960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	102.3
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	17416	16980	16786
55	16009	15621	15457
65	14766	14410	14254
75	12522	12515	12508
85	9780	10173	10467

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2527.040	2527.040	2527.040	2527.040	2527.040
0.5	2565.200	2529.160	2516.440	2521.740	2513.260
1.0	2565.200	2528.100	2516.440	2521.740	2513.260
1.5	2564.140	2527.040	2515.380	2521.740	2512.200
2.0	2563.080	2525.980	2514.320	2520.680	2512.200
2.5	2562.020	2524.920	2512.200	2519.620	2511.140
3.0	2559.900	2522.800	2511.140	2518.560	2509.020
3.5	2557.780	2520.680	2509.020	2516.440	2506.900
4.0	2555.660	2518.560	2506.900	2514.320	2504.780
4.5	2553.540	2515.380	2504.780	2512.200	2501.600
5.0	2551.420	2513.260	2501.600	2509.020	2498.420
5.5	2548.240	2510.080	2498.420	2505.840	2495.240
6.0	2545.060	2505.840	2495.240	2502.660	2491.000
6.5	2540.820	2502.660	2491.000	2498.420	2487.820
7.0	2537.640	2498.420	2487.820	2494.180	2483.580
7.5	2534.460	2494.180	2483.580	2489.940	2480.400
8.0	2529.160	2489.940	2478.280	2485.700	2476.160
8.5	2524.920	2484.640	2472.980	2480.400	2470.860
9.0	2519.620	2480.400	2468.740	2475.100	2465.560
9.5	2514.320	2475.100	2462.380	2468.740	2460.260
10.0	2509.020	2469.800	2457.080	2463.440	2453.900
10.5	2502.660	2463.440	2450.720	2457.080	2448.600
11.0	2497.360	2457.080	2444.360	2450.720	2441.180
11.5	2489.940	2450.720	2438.000	2444.360	2434.820
12.0	2483.580	2444.360	2431.640	2436.940	2427.400
12.5	2477.220	2436.940	2424.220	2429.520	2419.980
13.0	2469.800	2430.580	2416.800	2422.100	2412.560
13.5	2462.380	2422.100	2409.380	2413.620	2405.140
14.0	2454.960	2414.680	2400.900	2406.200	2397.720
14.5	2447.540	2407.260	2392.420	2397.720	2389.240
15.0	2440.120	2398.780	2383.940	2389.240	2380.760
15.5	2430.580	2391.360	2375.460	2379.700	2371.220
16.0	2419.980	2382.880	2365.920	2371.220	2362.740
16.5	2409.380	2373.340	2356.380	2361.680	2353.200
17.0	2399.840	2363.800	2346.840	2352.140	2343.660
17.5	2389.240	2353.200	2336.240	2341.540	2333.060
18.0	2378.640	2342.600	2325.640	2330.940	2322.460
18.5	2368.040	2332.000	2315.040	2319.280	2311.860
19.0	2357.440	2321.400	2305.500	2308.680	2299.140
19.5	2345.780	2310.800	2294.900	2295.960	2286.420
20.0	2335.180	2299.140	2285.360	2284.300	2273.700
20.5	2323.520	2288.540	2274.760	2271.580	2260.980
21.0	2311.860	2276.880	2263.100	2258.860	2247.200
21.5	2299.140	2265.220	2250.380	2246.140	2233.420
22.0	2287.480	2252.500	2236.600	2232.360	2220.700
22.5	2274.760	2239.780	2223.880	2218.580	2206.920
23.0	2262.040	2227.060	2211.160	2203.740	2193.140
23.5	2249.320	2214.340	2197.380	2189.960	2180.420
24.0	2235.540	2201.620	2184.660	2176.180	2166.640
24.5	2221.760	2187.840	2170.880	2162.400	2152.860
25.0	2209.040	2174.060	2157.100	2148.620	2139.080
25.5	2195.260	2160.280	2142.260	2134.840	2124.240
26.0	2180.420	2145.440	2128.480	2121.060	2110.460
26.5	2166.640	2131.660	2113.640	2107.280	2096.680

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27.0	2151.800	2116.820	2098.800	2093.500	2081.840
27.5	2136.960	2101.980	2085.020	2079.720	2068.060
28.0	2122.120	2086.080	2069.120	2064.880	2053.220
28.5	2106.220	2070.180	2054.280	2051.100	2038.380
29.0	2090.320	2055.340	2039.440	2036.260	2023.540
29.5	2075.480	2039.440	2024.600	2020.360	2009.760
30.0	2059.580	2023.540	2009.760	2005.520	1994.920
30.5	2043.680	2007.640	1993.860	1990.680	1980.080
31.0	2026.720	1992.800	1977.960	1974.780	1965.240
31.5	2010.820	1976.900	1962.060	1958.880	1949.340
32.0	1993.860	1959.940	1946.160	1941.920	1933.440
32.5	1976.900	1944.040	1930.260	1926.020	1916.480
33.0	1959.940	1928.140	1914.360	1910.120	1899.520
33.5	1944.040	1911.180	1897.400	1893.160	1883.620
34.0	1926.020	1894.220	1881.500	1876.200	1866.660
34.5	1909.060	1877.260	1863.480	1859.240	1848.640
35.0	1892.100	1861.360	1846.520	1842.280	1830.620
35.5	1874.080	1843.340	1829.560	1825.320	1812.600
36.0	1856.060	1826.380	1812.600	1807.300	1795.640
36.5	1839.100	1809.420	1795.640	1790.340	1778.680
37.0	1821.080	1791.400	1777.620	1772.320	1760.660
37.5	1803.060	1773.380	1760.660	1754.300	1743.700
38.0	1783.980	1755.360	1742.640	1736.280	1725.680
38.5	1765.960	1737.340	1724.620	1719.320	1707.660
39.0	1749.000	1719.320	1706.600	1701.300	1690.700
39.5	1729.920	1701.300	1689.640	1683.280	1671.620
40.0	1711.900	1682.220	1671.620	1665.260	1654.660
40.5	1692.820	1664.200	1653.600	1647.240	1636.640
41.0	1674.800	1645.120	1635.580	1628.160	1617.560
41.5	1655.720	1627.100	1616.500	1610.140	1598.480
42.0	1637.700	1608.020	1598.480	1592.120	1580.460
42.5	1619.680	1590.000	1580.460	1573.040	1562.440
43.0	1600.600	1571.980	1562.440	1555.020	1543.360
43.5	1582.580	1552.900	1543.360	1537.000	1525.340
44.0	1563.500	1533.820	1524.280	1517.920	1507.320
44.5	1544.420	1514.740	1505.200	1498.840	1488.240
45.0	1525.340	1496.720	1487.180	1479.760	1470.220
45.5	1507.320	1477.640	1468.100	1461.740	1452.200
46.0	1488.240	1458.560	1449.020	1442.660	1434.180
46.5	1469.160	1439.480	1431.000	1424.640	1416.160
47.0	1450.080	1420.400	1411.920	1405.560	1397.080
47.5	1429.940	1401.320	1392.840	1386.480	1379.060
48.0	1410.860	1382.240	1373.760	1368.460	1359.980
48.5	1391.780	1363.160	1355.740	1349.380	1340.900
49.0	1371.640	1344.080	1336.660	1330.300	1322.880
49.5	1352.560	1325.000	1317.580	1312.280	1304.860
50.0	1332.420	1305.920	1298.500	1293.200	1285.780
50.5	1312.280	1286.840	1279.420	1274.120	1267.760
51.0	1292.140	1267.760	1260.340	1255.040	1248.680
51.5	1273.060	1248.680	1241.260	1237.020	1229.600
52.0	1253.980	1229.600	1222.180	1217.940	1211.580
52.5	1233.840	1210.520	1203.100	1199.920	1192.500
53.0	1214.760	1191.440	1184.020	1180.840	1173.420
53.5	1194.620	1172.360	1164.940	1161.760	1154.340
54.0	1175.540	1153.280	1146.920	1143.740	1135.260
54.5	1156.460	1135.260	1127.840	1124.660	1116.180

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55.0	1137.380	1117.240	1109.820	1106.640	1098.160
55.5	1119.360	1098.160	1090.740	1087.560	1080.140
56.0	1099.220	1079.080	1071.660	1069.540	1061.060
56.5	1080.140	1061.060	1053.110	1050.778	1042.404
57.0	1062.120	1041.980	1034.348	1031.804	1023.854
57.5	1043.464	1023.536	1015.692	1013.360	1005.092
58.0	1024.808	1005.304	996.930	994.810	986.542
58.5	1006.046	986.966	978.486	976.578	968.734
59.0	987.602	968.522	959.936	958.134	950.608
59.5	969.688	949.866	941.068	939.796	932.694
60.0	951.350	931.316	922.412	921.352	914.462
60.5	933.224	913.190	904.392	902.802	896.018
61.0	915.416	895.064	886.478	884.676	877.998
61.5	896.336	877.150	868.670	866.656	860.190
62.0	877.574	858.706	850.226	848.742	841.958
62.5	858.388	841.640	832.842	831.676	824.680
63.0	839.944	826.588	819.486	818.956	813.232
63.5	821.288	810.158	804.540	803.374	797.438
64.0	810.052	794.152	789.064	786.732	779.948
64.5	792.562	777.086	771.574	769.454	763.094
65.0	772.952	758.854	754.296	752.282	746.134
65.5	752.918	740.410	736.276	735.322	729.068
66.0	733.626	722.390	718.680	718.256	711.578
66.5	714.546	703.946	700.766	700.766	694.830
67.0	695.678	685.608	683.064	683.382	677.976
67.5	677.128	667.588	665.256	665.892	660.592
68.0	658.366	649.568	647.448	648.296	642.784
68.5	639.498	631.230	629.534	630.700	625.294
69.0	619.994	612.786	611.514	612.150	607.168
69.5	601.020	594.660	593.176	593.918	589.360
70.0	582.258	576.322	575.262	575.580	571.552
70.5	563.814	557.878	557.136	557.454	553.638
71.0	544.946	539.540	539.328	539.752	535.618
71.5	526.078	521.202	521.626	521.944	518.340
72.0	507.740	502.758	503.606	504.030	500.956
72.5	489.402	484.632	486.010	486.434	483.890
73.0	471.276	466.930	468.838	469.368	467.142
73.5	453.680	449.440	451.666	452.620	450.182
74.0	436.296	431.950	434.706	435.448	433.858
74.5	418.912	414.778	417.852	418.594	417.428
75.0	401.422	397.712	401.210	401.952	400.998
75.5	384.144	380.646	384.674	385.628	384.568
76.0	366.654	364.216	368.350	369.410	368.562
76.5	350.118	347.998	352.132	353.298	352.556
77.0	334.006	331.674	336.232	337.292	336.126
77.5	317.364	315.774	320.332	321.180	320.014
78.0	301.146	299.874	304.432	305.704	304.538
78.5	285.034	284.398	288.744	290.228	289.274
79.0	269.558	268.922	273.374	275.176	274.434
79.5	254.082	253.764	258.216	260.124	259.488
80.0	238.818	238.924	243.058	245.708	244.860
80.5	223.448	224.402	228.642	231.186	230.550
81.0	208.714	210.198	214.332	216.982	216.558
81.5	194.510	196.100	200.340	202.990	202.672
82.0	181.260	182.320	186.666	189.422	189.104
82.5	168.010	168.964	173.204	175.960	175.748

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83.0	154.760	156.244	159.954	162.816	163.028
83.5	141.722	143.524	147.128	149.884	150.520
84.0	129.532	131.016	134.408	137.058	138.012
84.5	117.130	118.720	121.900	124.550	125.504
85.0	105.576	106.848	109.816	112.148	112.996
85.5	94.340	94.976	97.520	99.958	100.806
86.0	83.316	83.528	85.754	87.980	89.040
86.5	72.398	72.398	74.412	76.426	77.380
87.0	61.374	61.374	62.858	65.402	66.144
87.5	50.456	50.562	51.940	54.484	55.438
88.0	40.068	39.962	41.340	44.096	45.156
88.5	30.104	29.468	31.270	33.708	35.192
89.0	19.504	19.186	21.624	23.956	25.546
89.5	9.010	10.706	12.932	14.734	15.264
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.667	3.514	3.244	3.153	3.424
91.0	14.686	7.749	6.307	6.217	6.127
91.5	23.606	15.767	9.370	9.280	9.190
92.0	32.616	26.219	13.515	12.073	12.073
92.5	41.987	37.031	20.903	15.137	14.866
93.0	51.717	47.393	29.553	20.092	18.110
93.5	61.538	57.304	38.833	27.120	23.606
94.0	71.179	67.034	49.104	35.499	31.084
94.5	81.090	76.765	59.826	44.149	39.193
95.0	90.821	86.766	70.368	52.979	47.212
95.5	100.552	96.137	80.639	62.079	55.682
96.0	109.832	105.687	90.731	71.539	64.331
96.5	119.202	115.238	100.822	81.180	73.251
97.0	128.302	124.608	110.823	90.821	82.712
97.5	137.673	134.069	120.914	100.642	92.172
98.0	146.953	143.349	130.735	110.372	101.723
98.5	156.233	152.719	140.196	120.283	111.273
99.0	165.694	162.360	149.836	129.744	120.914
99.5	175.244	171.911	159.567	139.204	130.375
100.0	184.615	181.551	169.298	148.935	139.655
100.5	194.346	191.192	179.029	159.026	149.025
101.0	204.347	200.833	188.940	169.208	159.207
101.5	214.528	210.654	199.031	179.389	169.748
102.0	224.439	220.835	209.122	189.570	180.200
102.5	234.801	230.926	219.574	199.752	190.561
103.0	245.432	241.378	229.935	209.843	201.103
103.5	256.064	252.010	240.927	220.655	211.555
104.0	266.966	262.732	252.100	231.827	222.457
104.5	278.229	273.904	263.272	243.270	233.359
105.0	289.762	285.347	274.354	254.532	244.441
105.5	301.565	296.970	285.797	265.885	255.433
106.0	313.548	308.683	297.420	277.418	266.426
106.5	325.621	320.756	309.584	289.041	277.508
107.0	338.506	333.370	322.558	301.384	289.581
107.5	351.840	346.344	335.713	314.449	302.646
108.0	365.085	359.679	349.137	328.595	316.071
108.5	379.051	373.284	362.562	342.740	329.946
109.0	393.377	387.160	376.348	357.066	344.002
109.5	408.063	401.576	390.854	371.302	358.238
110.0	423.740	416.352	405.720	385.898	373.104
110.5	439.778	431.489	420.947	401.576	388.511

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111.0	455.996	447.346	436.715	417.884	404.008
111.5	472.574	463.655	452.752	434.462	419.956
112.0	489.784	480.413	468.700	451.041	435.183
112.5	507.083	497.622	484.828	467.529	451.311
113.0	525.193	515.372	501.857	484.558	468.160
113.5	543.844	533.933	519.877	502.938	486.270
114.0	562.765	552.854	538.978	522.490	506.362
114.5	582.316	572.405	558.440	542.852	527.716
115.0	602.138	592.498	578.622	563.395	549.340
115.5	622.861	612.770	599.345	583.848	570.693
116.0	643.764	633.853	620.789	605.382	592.407
116.5	665.839	655.477	642.954	627.456	615.563
117.0	688.814	677.552	665.298	651.243	639.440
117.5	705.753	694.761	685.751	673.137	663.677
118.0	727.377	714.853	706.744	695.752	685.210
118.5	752.515	738.820	728.188	716.745	704.582
119.0	777.112	762.426	752.515	740.532	726.116
119.5	801.980	787.564	778.284	764.679	750.263
120.0	827.659	813.603	804.142	791.078	775.761
120.5	853.157	840.002	830.812	819.099	802.971
121.0	879.917	866.942	857.662	847.030	831.893
121.5	906.406	893.612	884.422	875.321	860.185
122.0	934.337	920.822	912.713	903.703	888.566
122.5	961.367	947.852	940.644	931.634	915.416
123.0	989.298	976.684	969.476	962.268	945.149
123.5	1018.130	1005.516	1000.110	992.902	975.783
124.0	1046.962	1035.249	1029.843	1023.536	1007.318
124.5	1075.794	1064.081	1059.576	1053.269	1037.952
125.0	1104.626	1092.913	1088.408	1083.002	1067.685
125.5	1134.359	1122.646	1118.141	1112.735	1096.517
126.0	1163.191	1151.478	1148.775	1142.468	1125.349
126.5	1192.023	1180.310	1179.409	1174.003	1155.983
127.0	1221.756	1210.043	1210.043	1205.538	1188.419
127.5	1251.489	1238.875	1238.875	1236.172	1220.855
128.0	1280.321	1267.707	1268.608	1266.806	1251.489
128.5	1309.153	1295.638	1297.440	1297.440	1281.222
129.0	1337.985	1323.569	1326.272	1327.173	1311.856
129.5	1366.817	1352.401	1356.005	1357.807	1343.391
130.0	1395.649	1381.233	1385.738	1388.441	1376.728
130.5	1424.481	1409.164	1416.372	1418.174	1408.263
131.0	1453.313	1437.095	1445.204	1447.006	1437.095
131.5	1480.343	1464.125	1474.036	1474.036	1465.026
132.0	1508.274	1491.155	1501.967	1502.868	1492.056
132.5	1535.304	1519.086	1529.898	1530.799	1519.086
133.0	1562.334	1547.017	1556.928	1558.730	1545.215
133.5	1589.364	1574.047	1584.859	1586.661	1573.146
134.0	1616.394	1600.176	1610.988	1613.691	1600.176
134.5	1640.721	1626.305	1636.216	1638.018	1626.305
135.0	1665.048	1651.533	1660.543	1662.345	1649.731
135.5	1688.474	1677.662	1684.870	1685.771	1673.157
136.0	1711.900	1701.989	1707.395	1710.098	1697.484
136.5	1736.227	1725.415	1729.920	1734.425	1722.712
137.0	1758.752	1748.841	1753.346	1756.950	1746.138
137.5	1781.277	1770.465	1774.970	1777.673	1766.861
138.0	1802.901	1792.089	1795.693	1797.495	1786.683
138.5	1824.525	1812.812	1816.416	1817.317	1805.604

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1845.248	1833.535	1837.139	1837.139	1824.525
139.5	1865.971	1854.258	1856.961	1856.060	1842.545
140.0	1885.793	1873.179	1876.783	1875.882	1862.367
140.5	1904.714	1891.199	1894.803	1893.902	1879.486
141.0	1923.635	1910.120	1912.823	1911.021	1896.605
141.5	1940.754	1927.239	1930.843	1928.140	1911.922
142.0	1958.774	1945.259	1947.962	1944.358	1928.140
142.5	1975.893	1962.378	1965.081	1961.477	1943.457
143.0	1993.012	1978.596	1981.299	1977.695	1959.675
143.5	2009.230	1995.715	1997.517	1993.913	1974.992
144.0	2024.547	2011.933	2012.834	2008.329	1989.408
144.5	2039.864	2027.250	2028.151	2022.745	2003.824
145.0	2054.280	2042.567	2042.567	2036.260	2017.339
145.5	2069.597	2057.884	2056.983	2051.577	2031.755
146.0	2084.013	2072.300	2071.399	2065.092	2046.171
146.5	2098.429	2086.716	2084.914	2079.508	2060.587
147.0	2111.944	2101.132	2097.528	2093.924	2075.003
147.5	2125.459	2114.647	2111.043	2107.439	2088.518
148.0	2138.974	2128.162	2122.756	2120.053	2102.934
148.5	2152.489	2141.677	2134.469	2132.667	2117.350
149.0	2165.103	2155.192	2146.182	2145.281	2131.766
149.5	2177.717	2167.806	2156.994	2157.895	2145.281
150.0	2190.331	2180.420	2168.707	2169.608	2157.895
150.5	2202.945	2193.034	2179.519	2180.420	2170.509
151.0	2214.658	2204.747	2190.331	2191.232	2182.222
151.5	2227.272	2216.460	2202.044	2202.044	2193.034
152.0	2238.985	2228.173	2212.856	2211.955	2203.846
152.5	2250.698	2238.985	2223.668	2222.767	2213.757
153.0	2262.411	2249.797	2234.480	2233.579	2222.767
153.5	2273.223	2260.609	2245.292	2244.391	2230.876
154.0	2284.035	2271.421	2257.005	2255.203	2239.886
154.5	2295.748	2281.332	2267.817	2265.114	2248.896
155.0	2306.560	2291.243	2278.629	2275.926	2258.807
155.5	2316.471	2300.253	2289.441	2286.738	2268.718
156.0	2326.382	2310.164	2301.154	2296.649	2278.629
156.5	2336.293	2320.075	2311.966	2307.461	2288.540
157.0	2346.204	2329.986	2322.778	2318.273	2298.451
157.5	2355.214	2338.996	2332.689	2328.184	2308.362
158.0	2364.224	2348.006	2342.600	2338.095	2318.273
158.5	2374.135	2357.917	2352.511	2348.006	2329.085
159.0	2382.244	2366.927	2361.521	2357.917	2338.996
159.5	2391.254	2375.937	2370.531	2367.828	2348.907
160.0	2399.363	2384.046	2379.541	2376.838	2358.818
160.5	2407.472	2392.155	2387.650	2385.848	2368.729
161.0	2415.581	2400.264	2395.759	2394.858	2378.640
161.5	2423.690	2409.274	2402.967	2403.868	2388.551
162.0	2432.700	2417.383	2410.175	2412.878	2397.561
162.5	2440.809	2425.492	2417.383	2420.987	2405.670
163.0	2448.918	2433.601	2424.591	2429.096	2413.779
163.5	2457.027	2440.809	2431.799	2437.205	2420.987
164.0	2465.136	2448.017	2438.106	2444.413	2428.195
164.5	2471.443	2455.225	2444.413	2451.621	2435.403
165.0	2478.651	2462.433	2450.720	2458.829	2441.710
165.5	2485.859	2468.740	2457.027	2465.136	2448.017
166.0	2493.067	2475.047	2463.334	2471.443	2453.423
166.5	2500.275	2481.354	2469.641	2476.849	2459.730

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2506.582	2486.760	2475.047	2482.255	2465.136
167.5	2512.889	2492.166	2481.354	2487.661	2471.443
168.0	2519.196	2497.572	2486.760	2493.067	2476.849
168.5	2525.503	2502.978	2492.166	2498.473	2483.156
169.0	2530.909	2507.483	2497.572	2502.978	2488.562
169.5	2535.414	2511.988	2502.077	2507.483	2493.968
170.0	2539.919	2516.493	2506.582	2511.988	2500.275
170.5	2544.424	2520.998	2510.186	2516.493	2504.780
171.0	2548.929	2524.602	2513.790	2520.998	2509.285
171.5	2552.533	2528.206	2517.394	2525.503	2513.790
172.0	2556.137	2531.810	2520.097	2529.107	2517.394
172.5	2559.741	2535.414	2522.800	2531.810	2520.097
173.0	2563.345	2539.018	2525.503	2535.414	2521.899
173.5	2566.048	2541.721	2528.206	2537.216	2523.701
174.0	2568.751	2544.424	2530.909	2539.018	2524.602
174.5	2570.553	2546.226	2532.711	2540.820	2525.503
175.0	2572.355	2548.929	2534.513	2541.721	2525.503
175.5	2574.157	2550.731	2537.216	2542.622	2526.404
176.0	2575.959	2552.533	2539.018	2542.622	2526.404
176.5	2576.860	2554.335	2539.919	2543.523	2526.404
177.0	2577.761	2556.137	2541.721	2543.523	2525.503
177.5	2579.563	2557.939	2543.523	2543.523	2525.503
178.0	2580.464	2557.939	2544.424	2543.523	2526.404
178.5	2580.464	2558.840	2545.325	2543.523	2526.404
179.0	2581.365	2559.741	2545.325	2543.523	2526.404
179.5	2582.266	2559.741	2546.226	2543.523	2526.404
180.0	2550.731	2550.731	2550.731	2550.731	2550.731

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	913.29	N.A.	7.00
0-30	1909.37	N.A.	14.70
0-40	3067.43	N.A.	23.70
0-60	5212.26	N.A.	40.20
0-80	6382.99	N.A.	49.30
0-90	6506.69	N.A.	50.20
10-90	6268.31	N.A.	48.40
20-40	2154.14	N.A.	16.60
20-50	3303.75	N.A.	25.50
40-70	2890.22	N.A.	22.30
60-80	1170.74	N.A.	9.00
70-80	425.34	N.A.	3.30
80-90	123.70	N.A.	1.00
90-110	369.14	N.A.	2.80
90-120	947.60	N.A.	7.30
90-130	1919.69	N.A.	14.80
90-150	4465.05	N.A.	34.50
90-180	6453.18	N.A.	49.80
110-180	6084.04	N.A.	46.90
0-180	12959.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.39
10-20	674.90
20-30	996.08
30-40	1158.06
40-50	1149.61
50-60	995.22
60-70	745.40
70-80	425.34
80-90	123.70
90-100	79.62
100-110	289.52
110-120	578.47
120-130	972.09
130-140	1271.09
140-150	1274.27
150-160	1052.61
160-170	693.63
170-180	241.89

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-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	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-L15-850U-L15-850D-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	17.7	18.6	18.7	19.6	20.8	17.6	18.5	18.6	19.5	20.7
	3H	19.5	20.3	20.5	21.2	22.5	19.4	20.2	20.4	21.2	22.4
	4H	20.1	20.8	21.1	21.8	23.1	20.0	20.8	21.0	21.7	23.0
	6H	20.5	21.2	21.5	22.2	23.5	20.5	21.2	21.5	22.2	23.5
	8H	20.7	21.3	21.7	22.3	23.6	20.6	21.3	21.6	22.3	23.6
	12H	20.7	21.4	21.7	22.4	23.7	20.7	21.3	21.7	22.3	23.7

UGR Viewed Endwise

4H	2H	18.3	19.0	19.3	20.0	21.3	18.2	18.9	19.2	19.9	21.2
	3H	20.2	20.8	21.2	21.9	23.2	20.2	20.8	21.2	21.8	23.1
	4H	21.0	21.5	22.0	22.5	23.9	20.9	21.5	21.9	22.5	23.8
	6H	21.5	22.0	22.5	23.0	24.4	21.5	22.0	22.5	23.0	24.4
	8H	21.7	22.2	22.7	23.2	24.5	21.7	22.2	22.7	23.2	24.5
	12H	21.8	22.2	22.9	23.3	24.6	21.8	22.2	22.9	23.3	24.6

8H	4H	21.2	21.7	22.2	22.7	24.0	21.2	21.6	22.2	22.6	24.0
	6H	21.9	22.3	22.9	23.3	24.7	21.9	22.3	22.9	23.3	24.7
	8H	22.2	22.5	23.2	23.5	24.9	22.2	22.5	23.2	23.6	24.9
	12H	22.4	22.6	23.4	23.7	25.1	22.4	22.7	23.5	23.7	25.1

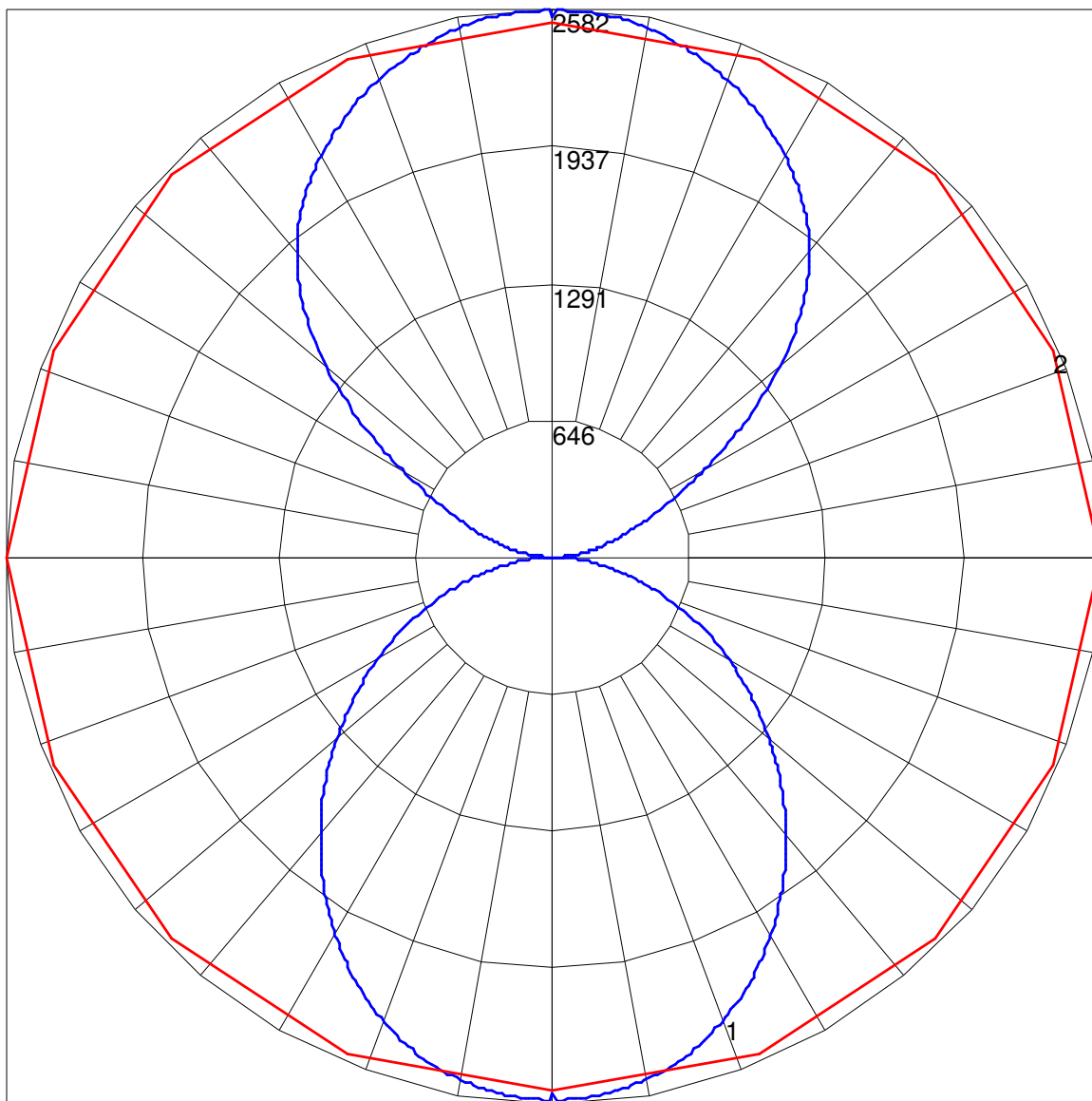
12H	4H	21.2	21.6	22.2	22.7	24.0	21.2	21.6	22.2	22.6	24.0
	6H	21.9	22.3	23.0	23.3	24.7	21.9	22.3	23.0	23.3	24.7
	8H	22.2	22.5	23.3	23.6	25.0	22.3	22.5	23.3	23.6	25.0

Maximum UGR = 25.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-850U-L15-850D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2582.266 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.)