

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-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-L12-830U-L15-830D-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	10898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	14827	14456	14291
55	13630	13299	13160
65	12571	12268	12135
75	10660	10655	10649
85	8326	8660	8911

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES

## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2151.415	2151.415	2151.415	2151.415	2151.415
0.5	2183.903	2153.220	2142.390	2146.903	2139.683
1.0	2183.903	2152.317	2142.390	2146.903	2139.683
1.5	2183.000	2151.415	2141.488	2146.903	2138.781
2.0	2182.098	2150.512	2140.585	2146.000	2138.781
2.5	2181.195	2149.610	2138.781	2145.098	2137.878
3.0	2179.390	2147.805	2137.878	2144.195	2136.073
3.5	2177.585	2146.000	2136.073	2142.390	2134.268
4.0	2175.781	2144.195	2134.268	2140.585	2132.463
4.5	2173.976	2141.488	2132.463	2138.781	2129.756
5.0	2172.171	2139.683	2129.756	2136.073	2127.049
5.5	2169.463	2136.976	2127.049	2133.366	2124.342
6.0	2166.756	2133.366	2124.342	2130.659	2120.732
6.5	2163.146	2130.659	2120.732	2127.049	2118.024
7.0	2160.439	2127.049	2118.024	2123.439	2114.415
7.5	2157.732	2123.439	2114.415	2119.829	2111.707
8.0	2153.220	2119.829	2109.903	2116.220	2108.098
8.5	2149.610	2115.317	2105.390	2111.707	2103.585
9.0	2145.098	2111.707	2101.781	2107.195	2099.073
9.5	2140.585	2107.195	2096.366	2101.781	2094.561
10.0	2136.073	2102.683	2091.854	2097.268	2089.146
10.5	2130.659	2097.268	2086.439	2091.854	2084.634
11.0	2126.146	2091.854	2081.024	2086.439	2078.317
11.5	2119.829	2086.439	2075.610	2081.024	2072.903
12.0	2114.415	2081.024	2070.195	2074.707	2066.585
12.5	2109.000	2074.707	2063.878	2068.390	2060.268
13.0	2102.683	2069.293	2057.561	2062.073	2053.951
13.5	2096.366	2062.073	2051.244	2054.854	2047.634
14.0	2090.049	2055.756	2044.024	2048.537	2041.317
14.5	2083.732	2049.439	2036.805	2041.317	2034.098
15.0	2077.415	2042.220	2029.585	2034.098	2026.878
15.5	2069.293	2035.903	2022.366	2025.976	2018.756
16.0	2060.268	2028.683	2014.244	2018.756	2011.537
16.5	2051.244	2020.561	2006.122	2010.634	2003.415
17.0	2043.122	2012.439	1998.000	2002.512	1995.293
17.5	2034.098	2003.415	1988.976	1993.488	1986.268
18.0	2025.073	1994.390	1979.951	1984.463	1977.244
18.5	2016.049	1985.366	1970.927	1974.537	1968.220
19.0	2007.024	1976.342	1962.805	1965.512	1957.390
19.5	1997.098	1967.317	1953.781	1954.683	1946.561
20.0	1988.073	1957.390	1945.659	1944.756	1935.732
20.5	1978.146	1948.366	1936.634	1933.927	1924.902
21.0	1968.220	1938.439	1926.707	1923.098	1913.171
21.5	1957.390	1928.512	1915.878	1912.268	1901.439
22.0	1947.463	1917.683	1904.146	1900.537	1890.610
22.5	1936.634	1906.854	1893.317	1888.805	1878.878
23.0	1925.805	1896.024	1882.488	1876.171	1867.146
23.5	1914.976	1885.195	1870.756	1864.439	1856.317
24.0	1903.244	1874.366	1859.927	1852.707	1844.585
24.5	1891.512	1862.634	1848.195	1840.976	1832.854
25.0	1880.683	1850.902	1836.463	1829.244	1821.122
25.5	1868.951	1839.171	1823.829	1817.512	1808.488
26.0	1856.317	1826.537	1812.098	1805.781	1796.756
26.5	1844.585	1814.805	1799.463	1794.049	1785.024

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1831.951	1802.171	1786.829	1782.317	1772.390
27.5	1819.317	1789.537	1775.098	1770.585	1760.659
28.0	1806.683	1776.000	1761.561	1757.951	1748.024
28.5	1793.146	1762.463	1748.927	1746.220	1735.390
29.0	1779.610	1749.829	1736.293	1733.585	1722.756
29.5	1766.976	1736.293	1723.659	1720.049	1711.024
30.0	1753.439	1722.756	1711.024	1707.415	1698.390
30.5	1739.902	1709.220	1697.488	1694.781	1685.756
31.0	1725.463	1696.585	1683.951	1681.244	1673.122
31.5	1711.927	1683.049	1670.415	1667.707	1659.585
32.0	1697.488	1668.610	1656.878	1653.268	1646.049
32.5	1683.049	1655.073	1643.342	1639.732	1631.610
33.0	1668.610	1641.537	1629.805	1626.195	1617.171
33.5	1655.073	1627.098	1615.366	1611.756	1603.634
34.0	1639.732	1612.659	1601.829	1597.317	1589.195
34.5	1625.293	1598.220	1586.488	1582.878	1573.854
35.0	1610.854	1584.683	1572.049	1568.439	1558.512
35.5	1595.512	1569.342	1557.610	1554.000	1543.171
36.0	1580.171	1554.902	1543.171	1538.659	1528.732
36.5	1565.732	1540.463	1528.732	1524.220	1514.293
37.0	1550.390	1525.122	1513.390	1508.878	1498.951
37.5	1535.049	1509.781	1498.951	1493.537	1484.512
38.0	1518.805	1494.439	1483.610	1478.195	1469.171
38.5	1503.463	1479.098	1468.268	1463.756	1453.829
39.0	1489.024	1463.756	1452.927	1448.415	1439.390
39.5	1472.781	1448.415	1438.488	1433.073	1423.146
40.0	1457.439	1432.171	1423.146	1417.732	1408.707
40.5	1441.195	1416.829	1407.805	1402.390	1393.366
41.0	1425.854	1400.585	1392.463	1386.146	1377.122
41.5	1409.610	1385.244	1376.220	1370.805	1360.878
42.0	1394.268	1369.000	1360.878	1355.463	1345.537
42.5	1378.927	1353.659	1345.537	1339.220	1330.195
43.0	1362.683	1338.317	1330.195	1323.878	1313.951
43.5	1347.342	1322.073	1313.951	1308.537	1298.610
44.0	1331.098	1305.829	1297.707	1292.293	1283.268
44.5	1314.854	1289.585	1281.463	1276.049	1267.024
45.0	1298.610	1274.244	1266.122	1259.805	1251.683
45.5	1283.268	1258.000	1249.878	1244.463	1236.342
46.0	1267.024	1241.756	1233.634	1228.220	1221.000
46.5	1250.781	1225.512	1218.293	1212.878	1205.659
47.0	1234.537	1209.268	1202.049	1196.634	1189.415
47.5	1217.390	1193.024	1185.805	1180.390	1174.073
48.0	1201.146	1176.781	1169.561	1165.049	1157.829
48.5	1184.902	1160.537	1154.220	1148.805	1141.585
49.0	1167.756	1144.293	1137.976	1132.561	1126.244
49.5	1151.512	1128.049	1121.732	1117.220	1110.902
50.0	1134.366	1111.805	1105.488	1100.976	1094.659
50.5	1117.220	1095.561	1089.244	1084.732	1079.317
51.0	1100.073	1079.317	1073.000	1068.488	1063.073
51.5	1083.829	1063.073	1056.756	1053.146	1046.829
52.0	1067.585	1046.829	1040.512	1036.902	1031.488
52.5	1050.439	1030.585	1024.268	1021.561	1015.244
53.0	1034.195	1014.341	1008.024	1005.317	999.000
53.5	1017.049	998.098	991.781	989.073	982.756
54.0	1000.805	981.854	976.439	973.732	966.512
54.5	984.561	966.512	960.195	957.488	950.268

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

55.0	968.317	951.171	944.854	942.146	934.927
55.5	952.976	934.927	928.610	925.902	919.585
56.0	935.829	918.683	912.366	910.561	903.341
56.5	919.585	903.341	896.573	894.588	887.459
57.0	904.244	887.098	880.600	878.434	871.666
57.5	888.361	871.395	864.717	862.732	855.693
58.0	872.478	855.873	848.744	846.939	839.900
58.5	856.505	840.261	833.041	831.417	824.739
59.0	840.802	824.559	817.249	815.715	809.307
59.5	825.551	808.676	801.185	800.102	794.056
60.0	809.939	792.883	785.303	784.400	778.534
60.5	794.507	777.451	769.961	768.607	762.832
61.0	779.346	762.020	754.710	753.176	747.490
61.5	763.102	746.768	739.549	737.834	732.329
62.0	747.129	731.066	723.846	722.583	716.807
62.5	730.795	716.537	709.046	708.054	702.098
63.0	715.093	703.722	697.676	697.224	692.351
63.5	699.210	689.734	684.951	683.959	678.905
64.0	689.644	676.107	671.776	669.790	664.015
64.5	674.754	661.578	656.885	655.081	649.666
65.0	658.059	646.056	642.176	640.461	635.227
65.5	641.002	630.354	626.834	626.022	620.698
66.0	624.578	615.012	611.854	611.493	605.807
66.5	608.334	599.310	596.602	596.602	591.549
67.0	592.271	583.698	581.532	581.802	577.200
67.5	576.478	568.356	566.371	566.912	562.400
68.0	560.505	553.015	551.210	551.932	547.239
68.5	544.441	537.403	535.959	536.951	532.349
69.0	527.837	521.700	520.617	521.159	516.917
69.5	511.683	506.268	505.005	505.637	501.756
70.0	495.710	490.656	489.754	490.024	486.595
70.5	480.007	474.954	474.322	474.593	471.344
71.0	463.944	459.341	459.161	459.522	456.002
71.5	447.881	443.729	444.090	444.361	441.293
72.0	432.268	428.027	428.749	429.110	426.493
72.5	416.656	412.595	413.768	414.129	411.963
73.0	401.224	397.524	399.149	399.600	397.705
73.5	386.244	382.634	384.529	385.341	383.266
74.0	371.444	367.744	370.090	370.722	369.368
74.5	356.644	353.124	355.742	356.373	355.380
75.0	341.754	338.595	341.573	342.205	341.393
75.5	327.044	324.066	327.495	328.307	327.405
76.0	312.154	310.078	313.598	314.500	313.778
76.5	298.076	296.271	299.790	300.783	300.151
77.0	284.359	282.373	286.254	287.156	286.163
77.5	270.190	268.837	272.717	273.439	272.446
78.0	256.383	255.300	259.181	260.263	259.271
78.5	242.666	242.124	245.824	247.088	246.276
79.0	229.490	228.949	232.739	234.273	233.642
79.5	216.315	216.044	219.834	221.459	220.917
80.0	203.320	203.410	206.929	209.185	208.463
80.5	190.234	191.046	194.656	196.822	196.281
81.0	177.690	178.954	182.473	184.729	184.368
81.5	165.598	166.951	170.561	172.817	172.546
82.0	154.317	155.220	158.919	161.266	160.995
82.5	143.037	143.849	147.459	149.805	149.624

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

83.0	131.756	133.019	136.178	138.615	138.795
83.5	120.656	122.190	125.258	127.605	128.146
84.0	110.278	111.541	114.429	116.685	117.498
84.5	99.720	101.073	103.780	106.037	106.849
85.0	89.883	90.966	93.493	95.478	96.200
85.5	80.317	80.859	83.024	85.100	85.822
86.0	70.932	71.112	73.007	74.902	75.805
86.5	61.637	61.637	63.351	65.066	65.878
87.0	52.251	52.251	53.515	55.680	56.312
87.5	42.956	43.046	44.220	46.385	47.198
88.0	34.112	34.022	35.195	37.541	38.444
88.5	25.629	25.088	26.622	28.698	29.961
89.0	16.605	16.334	18.410	20.395	21.749
89.5	7.671	9.115	11.010	12.544	12.995
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.536	2.918	2.693	2.618	2.843
91.0	12.194	6.434	5.237	5.162	5.087
91.5	19.600	13.092	7.780	7.705	7.631
92.0	27.081	21.769	11.221	10.024	10.024
92.5	34.861	30.747	17.356	12.568	12.343
93.0	42.940	39.350	24.537	16.682	15.037
93.5	51.095	47.579	32.243	22.518	19.600
94.0	59.099	55.658	40.771	29.475	25.809
94.5	67.328	63.737	49.673	36.656	32.542
95.0	75.408	72.041	58.426	43.988	39.200
95.5	83.487	79.821	66.954	51.543	46.232
96.0	91.192	87.751	75.333	59.398	53.414
96.5	98.972	95.681	83.711	67.403	60.820
97.0	106.528	103.461	92.015	75.408	68.675
97.5	114.308	111.316	100.394	83.562	76.530
98.0	122.014	119.021	108.548	91.641	84.459
98.5	129.719	126.801	116.403	99.870	92.389
99.0	137.574	134.806	124.407	107.725	100.394
99.5	145.504	142.736	132.487	115.580	108.249
100.0	153.284	150.740	140.566	123.659	115.954
100.5	161.363	158.745	148.646	132.038	123.734
101.0	169.667	166.749	156.875	140.491	132.188
101.5	178.120	174.904	165.253	148.945	140.940
102.0	186.349	183.357	173.632	157.398	149.618
102.5	194.952	191.736	182.310	165.852	158.221
103.0	203.780	200.413	190.913	174.230	166.974
103.5	212.607	209.241	200.039	183.207	175.652
104.0	221.659	218.143	209.316	192.484	184.704
104.5	231.010	227.419	218.592	201.984	193.755
105.0	240.586	236.920	227.794	211.336	202.957
105.5	250.386	246.571	237.294	220.761	212.084
106.0	260.335	256.296	246.945	230.337	221.210
106.5	270.360	266.320	257.044	239.987	230.412
107.0	281.058	276.793	267.816	250.236	240.436
107.5	292.129	287.566	278.738	261.084	251.284
108.0	303.126	298.638	289.885	272.829	262.430
108.5	314.722	309.934	301.032	284.574	273.951
109.0	326.616	321.454	312.477	296.468	285.621
109.5	338.810	333.424	324.522	308.288	297.441
110.0	351.827	345.693	336.865	320.407	309.784
110.5	365.143	358.260	349.508	333.424	322.577

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

111.0	378.609	371.427	362.599	346.964	335.444
111.5	392.373	384.967	375.915	360.729	348.685
112.0	406.662	398.882	389.157	374.494	361.328
112.5	421.025	413.170	402.547	388.184	374.718
113.0	436.062	427.908	416.686	402.323	388.708
113.5	451.547	443.318	431.648	417.584	403.744
114.0	467.257	459.028	447.508	433.818	420.427
114.5	483.491	475.262	463.666	450.724	438.157
115.0	499.949	491.944	480.424	467.781	456.111
115.5	517.155	508.776	497.630	484.763	473.840
116.0	534.511	526.282	515.434	502.642	491.869
116.5	552.839	544.236	533.837	520.970	511.095
117.0	571.915	562.564	552.390	540.720	530.920
117.5	585.979	576.853	569.372	558.898	551.043
118.0	603.933	593.535	586.802	577.675	568.923
118.5	624.805	613.434	604.607	595.106	585.007
119.0	645.228	633.034	624.805	614.856	602.886
119.5	665.875	653.906	646.200	634.904	622.935
120.0	687.196	675.526	667.671	656.823	644.106
120.5	708.367	697.445	689.814	680.089	666.698
121.0	730.585	719.813	712.107	703.280	690.712
121.5	752.579	741.956	734.326	726.770	714.202
122.0	775.770	764.548	757.816	750.335	737.767
122.5	798.212	786.991	781.006	773.525	760.060
123.0	821.403	810.930	804.945	798.961	784.747
123.5	845.342	834.869	830.380	824.396	810.182
124.0	869.281	859.556	855.067	849.831	836.365
124.5	893.220	883.495	879.754	874.518	861.800
125.0	917.159	907.434	903.693	899.205	886.487
125.5	941.846	932.121	928.380	923.892	910.426
126.0	965.785	956.060	953.815	948.579	934.365
126.5	989.724	979.998	979.250	974.762	959.800
127.0	1014.411	1004.685	1004.685	1000.945	986.731
127.5	1039.098	1028.624	1028.624	1026.380	1013.662
128.0	1063.036	1052.563	1053.311	1051.815	1039.098
128.5	1086.975	1075.754	1077.250	1077.250	1063.785
129.0	1110.914	1098.945	1101.189	1101.937	1089.220
129.5	1134.853	1122.884	1125.876	1127.372	1115.403
130.0	1158.792	1146.823	1150.563	1152.807	1143.082
130.5	1182.731	1170.013	1175.998	1177.494	1169.265
131.0	1206.670	1193.204	1199.937	1201.433	1193.204
131.5	1229.113	1215.647	1223.876	1223.876	1216.395
132.0	1252.303	1238.090	1247.067	1247.815	1238.838
132.5	1274.746	1261.280	1270.258	1271.006	1261.280
133.0	1297.189	1284.471	1292.700	1294.196	1282.975
133.5	1319.631	1306.914	1315.891	1317.387	1306.166
134.0	1342.074	1328.609	1337.586	1339.830	1328.609
134.5	1362.273	1350.303	1358.532	1360.028	1350.303
135.0	1382.471	1371.250	1378.731	1380.227	1369.754
135.5	1401.921	1392.944	1398.929	1399.677	1389.204
136.0	1421.372	1413.143	1417.631	1419.876	1409.402
136.5	1441.570	1432.593	1436.334	1440.074	1430.349
137.0	1460.272	1452.043	1455.784	1458.776	1449.799
137.5	1478.975	1469.998	1473.738	1475.982	1467.005
138.0	1496.929	1487.952	1490.944	1492.440	1483.463
138.5	1514.883	1505.158	1508.150	1508.898	1499.173

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1532.089	1522.364	1525.356	1525.356	1514.883
139.5	1549.295	1539.570	1541.814	1541.066	1529.845
140.0	1565.753	1555.280	1558.272	1557.524	1546.303
140.5	1581.463	1570.242	1573.234	1572.486	1560.517
141.0	1597.173	1585.952	1588.196	1586.700	1574.730
141.5	1611.387	1600.165	1603.158	1600.913	1587.448
142.0	1626.349	1615.127	1617.371	1614.379	1600.913
142.5	1640.562	1629.341	1631.585	1628.593	1613.631
143.0	1654.776	1642.807	1645.051	1642.058	1627.097
143.5	1668.242	1657.020	1658.516	1655.524	1639.814
144.0	1680.959	1670.486	1671.234	1667.494	1651.784
144.5	1693.677	1683.203	1683.951	1679.463	1663.753
145.0	1705.646	1695.921	1695.921	1690.684	1674.974
145.5	1718.364	1708.638	1707.890	1703.402	1686.944
146.0	1730.333	1720.608	1719.860	1714.623	1698.913
146.5	1742.303	1732.577	1731.081	1726.593	1710.883
147.0	1753.524	1744.547	1741.554	1738.562	1722.852
147.5	1764.745	1755.768	1752.776	1749.783	1734.074
148.0	1775.967	1766.990	1762.501	1760.257	1746.043
148.5	1787.188	1778.211	1772.226	1770.730	1758.012
149.0	1797.661	1789.432	1781.951	1781.203	1769.982
149.5	1808.134	1799.906	1790.928	1791.677	1781.203
150.0	1818.608	1810.379	1800.654	1801.402	1791.677
150.5	1829.081	1820.852	1809.631	1810.379	1802.150
151.0	1838.806	1830.577	1818.608	1819.356	1811.875
151.5	1849.279	1840.302	1828.333	1828.333	1820.852
152.0	1859.005	1850.028	1837.310	1836.562	1829.829
152.5	1868.730	1859.005	1846.287	1845.539	1838.058
153.0	1878.455	1867.982	1855.264	1854.516	1845.539
153.5	1887.432	1876.959	1864.241	1863.493	1852.272
154.0	1896.409	1885.936	1873.966	1872.470	1859.753
154.5	1906.134	1894.165	1882.944	1880.699	1867.234
155.0	1915.111	1902.394	1891.921	1889.676	1875.463
155.5	1923.340	1909.875	1900.898	1898.653	1883.692
156.0	1931.569	1918.104	1910.623	1906.882	1891.921
156.5	1939.798	1926.333	1919.600	1915.860	1900.150
157.0	1948.027	1934.562	1928.577	1924.837	1908.379
157.5	1955.508	1942.043	1936.806	1933.066	1916.608
158.0	1962.989	1949.524	1945.035	1941.295	1924.837
158.5	1971.218	1957.753	1953.264	1949.524	1933.814
159.0	1977.951	1965.233	1960.745	1957.753	1942.043
159.5	1985.432	1972.714	1968.226	1965.982	1950.272
160.0	1992.165	1979.447	1975.707	1973.462	1958.501
160.5	1998.898	1986.180	1982.440	1980.943	1966.730
161.0	2005.630	1992.913	1989.172	1988.424	1974.959
161.5	2012.363	2000.394	1995.157	1995.905	1983.188
162.0	2019.844	2007.127	2001.142	2003.386	1990.669
162.5	2026.577	2013.859	2007.127	2010.119	1997.401
163.0	2033.310	2020.592	2013.111	2016.852	2004.134
163.5	2040.043	2026.577	2019.096	2023.585	2010.119
164.0	2046.775	2032.562	2024.333	2029.569	2016.104
164.5	2052.012	2038.546	2029.569	2035.554	2022.088
165.0	2057.997	2044.531	2034.806	2041.539	2027.325
165.5	2063.981	2049.768	2040.043	2046.775	2032.562
166.0	2069.966	2055.004	2045.279	2052.012	2037.050
166.5	2075.951	2060.241	2050.516	2056.501	2042.287

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	2081.187	2064.730	2055.004	2060.989	2046.775
167.5	2086.424	2069.218	2060.241	2065.478	2052.012
168.0	2091.661	2073.707	2064.730	2069.966	2056.501
168.5	2096.897	2078.195	2069.218	2074.455	2061.737
169.0	2101.386	2081.936	2073.707	2078.195	2066.226
169.5	2105.126	2085.676	2077.447	2081.936	2070.714
170.0	2108.867	2089.416	2081.187	2085.676	2075.951
170.5	2112.607	2093.157	2084.180	2089.416	2079.691
171.0	2116.348	2096.149	2087.172	2093.157	2083.432
171.5	2119.340	2099.142	2090.165	2096.897	2087.172
172.0	2122.332	2102.134	2092.409	2099.890	2090.165
172.5	2125.325	2105.126	2094.653	2102.134	2092.409
173.0	2128.317	2108.119	2096.897	2105.126	2093.905
173.5	2130.561	2110.363	2099.142	2106.623	2095.401
174.0	2132.806	2112.607	2101.386	2108.119	2096.149
174.5	2134.302	2114.103	2102.882	2109.615	2096.897
175.0	2135.798	2116.348	2104.378	2110.363	2096.897
175.5	2137.294	2117.844	2106.623	2111.111	2097.645
176.0	2138.790	2119.340	2108.119	2111.111	2097.645
176.5	2139.539	2120.836	2108.867	2111.859	2097.645
177.0	2140.287	2122.332	2110.363	2111.859	2096.897
177.5	2141.783	2123.829	2111.859	2111.859	2096.897
178.0	2142.531	2123.829	2112.607	2111.859	2097.645
178.5	2142.531	2124.577	2113.355	2111.859	2097.645
179.0	2143.279	2125.325	2113.355	2111.859	2097.645
179.5	2144.027	2125.325	2114.103	2111.859	2097.645
180.0	2117.844	2117.844	2117.844	2117.844	2117.844



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	777.53	N.A.	7.10
0-30	1625.56	N.A.	14.90
0-40	2611.48	N.A.	24.00
0-60	4437.49	N.A.	40.70
0-80	5434.21	N.A.	49.90
0-90	5539.52	N.A.	50.80
10-90	5336.57	N.A.	49.00
20-40	1833.95	N.A.	16.80
20-50	2812.67	N.A.	25.80
40-70	2460.61	N.A.	22.60
60-80	996.71	N.A.	9.10
70-80	362.12	N.A.	3.30
80-90	105.32	N.A.	1.00
90-110	306.49	N.A.	2.80
90-120	786.78	N.A.	7.20
90-130	1593.9	N.A.	14.60
90-150	3707.28	N.A.	34.00
90-180	5358.00	N.A.	49.20
110-180	5051.51	N.A.	46.40
0-180	10897.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.95
10-20	574.58
20-30	848.02
30-40	985.92
40-50	978.73
50-60	847.29
60-70	634.60
70-80	362.12
80-90	105.32
90-100	66.11
100-110	240.38
110-120	480.29
120-130	807.11
130-140	1055.37
140-150	1058.01
150-160	873.97
160-170	575.91
170-180	200.84

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-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-L12-830U-L15-830D-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	17.2	18.1	18.2	19.1	20.3	17.1	18.0	18.1	19.0	20.2
	3H	19.0	19.8	20.0	20.8	22.0	18.9	19.7	19.9	20.7	21.9
	4H	19.6	20.4	20.6	21.3	22.6	19.5	20.3	20.5	21.3	22.5
	6H	20.0	20.7	21.0	21.7	23.0	20.0	20.7	21.0	21.7	23.0
	8H	20.2	20.8	21.2	21.8	23.1	20.1	20.8	21.1	21.8	23.1
	12H	20.3	20.9	21.3	21.9	23.2	20.2	20.9	21.2	21.9	23.2

### UGR Viewed Endwise

4H	2H	17.8	18.5	18.7	19.5	20.8	17.7	18.4	18.7	19.4	20.7
	3H	19.7	20.4	20.7	21.4	22.7	19.7	20.3	20.7	21.3	22.6
	4H	20.5	21.0	21.5	22.0	23.4	20.4	21.0	21.4	22.0	23.3
	6H	21.0	21.5	22.0	22.5	23.9	21.0	21.5	22.0	22.5	23.8
	8H	21.2	21.7	22.2	22.7	24.0	21.2	21.7	22.2	22.7	24.0
	12H	21.3	21.7	22.3	22.8	24.1	21.3	21.8	22.4	22.8	24.1

8H	4H	20.7	21.2	21.7	22.2	23.5	20.7	21.1	21.7	22.1	23.5
	6H	21.4	21.8	22.4	22.8	24.2	21.4	21.8	22.4	22.8	24.2
	8H	21.7	22.0	22.7	23.0	24.4	21.7	22.0	22.7	23.1	24.4
	12H	21.9	22.2	22.9	23.2	24.6	21.9	22.2	22.9	23.2	24.6

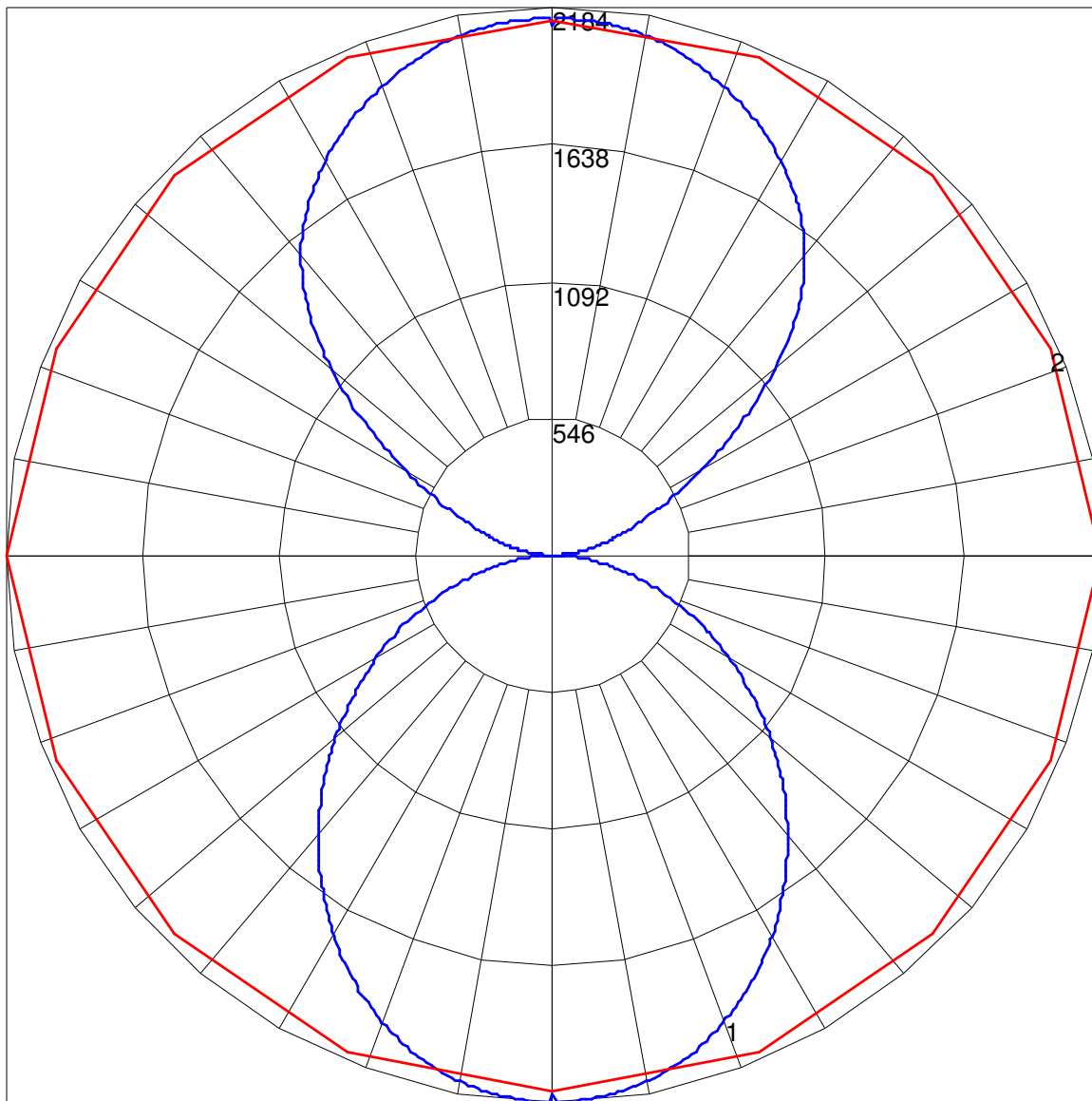
12H	4H	20.7	21.1	21.7	22.2	23.5	20.7	21.1	21.7	22.1	23.5
	6H	21.5	21.8	22.5	22.8	24.2	21.4	21.8	22.5	22.8	24.2
	8H	21.7	22.0	22.8	23.1	24.5	21.8	22.1	22.8	23.1	24.5

Maximum UGR = 24.6

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L15-830D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2183.903 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.)