

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L12-830D-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-L15-830U-L12-830D-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	11012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	14798	14428	14263
55	13603	13274	13134
65	12547	12244	12111
75	10640	10634	10628
85	8310	8644	8894

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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	2147.232	2147.232	2147.232	2147.232	2147.232
0.5	2179.657	2149.033	2138.225	2142.729	2135.523
1.0	2179.657	2148.133	2138.225	2142.729	2135.523
1.5	2178.756	2147.232	2137.325	2142.729	2134.622
2.0	2177.855	2146.331	2136.424	2141.828	2134.622
2.5	2176.955	2145.431	2134.622	2140.927	2133.722
3.0	2175.153	2143.629	2133.722	2140.027	2131.920
3.5	2173.352	2141.828	2131.920	2138.225	2130.119
4.0	2171.551	2140.027	2130.119	2136.424	2128.318
4.5	2169.749	2137.325	2128.318	2134.622	2125.616
5.0	2167.948	2135.523	2125.616	2131.920	2122.914
5.5	2165.246	2132.821	2122.914	2129.218	2120.212
6.0	2162.544	2129.218	2120.212	2126.516	2116.609
6.5	2158.941	2126.516	2116.609	2122.914	2113.907
7.0	2156.239	2122.914	2113.907	2119.311	2110.304
7.5	2153.537	2119.311	2110.304	2115.708	2107.602
8.0	2149.033	2115.708	2105.801	2112.105	2103.999
8.5	2145.431	2111.205	2101.297	2107.602	2099.496
9.0	2140.927	2107.602	2097.694	2103.099	2094.992
9.5	2136.424	2103.099	2092.290	2097.694	2090.489
10.0	2131.920	2098.595	2087.787	2093.191	2085.085
10.5	2126.516	2093.191	2082.383	2087.787	2080.581
11.0	2122.013	2087.787	2076.979	2082.383	2074.277
11.5	2115.708	2082.383	2071.575	2076.979	2068.873
12.0	2110.304	2076.979	2066.170	2070.674	2062.568
12.5	2104.900	2070.674	2059.866	2064.369	2056.263
13.0	2098.595	2065.270	2053.561	2058.064	2049.958
13.5	2092.290	2058.064	2047.256	2050.859	2043.653
14.0	2085.986	2051.760	2040.051	2044.554	2037.349
14.5	2079.681	2045.455	2032.845	2037.349	2030.143
15.0	2073.376	2038.249	2025.640	2030.143	2022.938
15.5	2065.270	2031.944	2018.434	2022.037	2014.831
16.0	2056.263	2024.739	2010.328	2014.831	2007.626
16.5	2047.256	2016.633	2002.222	2006.725	1999.520
17.0	2039.150	2008.527	1994.116	1998.619	1991.414
17.5	2030.143	1999.520	1985.109	1989.612	1982.407
18.0	2021.136	1990.513	1976.102	1980.605	1973.400
18.5	2012.129	1981.506	1967.095	1970.698	1964.393
19.0	2003.123	1972.499	1958.989	1961.691	1953.585
19.5	1993.215	1963.492	1949.982	1950.883	1942.777
20.0	1984.208	1953.585	1941.876	1940.975	1931.968
20.5	1974.301	1944.578	1932.869	1930.167	1921.160
21.0	1964.393	1934.671	1922.962	1919.359	1909.451
21.5	1953.585	1924.763	1912.153	1908.551	1897.742
22.0	1943.677	1913.955	1900.444	1896.842	1886.934
22.5	1932.869	1903.147	1889.636	1885.133	1875.225
23.0	1922.061	1892.338	1878.828	1872.523	1863.516
23.5	1911.253	1881.530	1867.119	1860.814	1852.708
24.0	1899.544	1870.722	1856.311	1849.105	1840.999
24.5	1887.835	1859.013	1844.602	1837.397	1829.290
25.0	1877.027	1847.304	1832.893	1825.688	1817.582
25.5	1865.318	1835.595	1820.284	1813.979	1804.972
26.0	1852.708	1822.986	1808.575	1802.270	1793.263
26.5	1840.999	1811.277	1795.965	1790.561	1781.554

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

27.0	1828.390	1798.667	1783.355	1778.852	1768.945
27.5	1815.780	1786.058	1771.647	1767.143	1757.236
28.0	1803.171	1772.547	1758.136	1754.534	1744.626
28.5	1789.660	1759.037	1745.527	1742.825	1732.016
29.0	1776.150	1746.427	1732.917	1730.215	1719.407
29.5	1763.540	1732.917	1720.308	1716.705	1707.698
30.0	1750.030	1719.407	1707.698	1704.095	1695.088
30.5	1736.520	1705.897	1694.188	1691.486	1682.479
31.0	1722.109	1693.287	1680.677	1677.975	1669.869
31.5	1708.599	1679.777	1667.167	1664.465	1656.359
32.0	1694.188	1665.366	1653.657	1650.054	1642.849
32.5	1679.777	1651.856	1640.147	1636.544	1628.438
33.0	1665.366	1638.345	1626.636	1623.034	1614.027
33.5	1651.856	1623.934	1612.225	1608.623	1600.517
34.0	1636.544	1609.523	1598.715	1594.212	1586.106
34.5	1622.133	1595.112	1583.404	1579.801	1570.794
35.0	1607.722	1581.602	1568.993	1565.390	1555.482
35.5	1592.410	1566.291	1554.582	1550.979	1540.171
36.0	1577.099	1551.880	1540.171	1535.667	1525.760
36.5	1562.688	1537.469	1525.760	1521.256	1511.349
37.0	1547.376	1522.157	1510.448	1505.945	1496.037
37.5	1532.064	1506.845	1496.037	1490.633	1481.626
38.0	1515.852	1491.534	1480.725	1475.321	1466.315
38.5	1500.541	1476.222	1465.414	1460.910	1451.003
39.0	1486.130	1460.910	1450.102	1445.599	1436.592
39.5	1469.917	1445.599	1435.691	1430.287	1420.380
40.0	1454.606	1429.386	1420.380	1414.975	1405.969
40.5	1438.393	1414.075	1405.068	1399.664	1390.657
41.0	1423.082	1397.862	1389.756	1383.452	1374.445
41.5	1406.869	1382.551	1373.544	1368.140	1358.232
42.0	1391.558	1366.339	1358.232	1352.828	1342.921
42.5	1376.246	1351.027	1342.921	1336.616	1327.609
43.0	1360.034	1335.715	1327.609	1321.304	1311.397
43.5	1344.722	1319.503	1311.397	1305.993	1296.085
44.0	1328.510	1303.291	1295.184	1289.780	1280.773
44.5	1312.297	1287.078	1278.972	1273.568	1264.561
45.0	1296.085	1271.767	1263.660	1257.356	1249.250
45.5	1280.773	1255.554	1247.448	1242.044	1233.938
46.0	1264.561	1239.342	1231.236	1225.832	1218.626
46.5	1248.349	1223.130	1215.924	1210.520	1203.315
47.0	1232.137	1206.917	1199.712	1194.308	1187.102
47.5	1215.024	1190.705	1183.500	1178.095	1171.791
48.0	1198.811	1174.493	1167.287	1162.784	1155.578
48.5	1182.599	1158.280	1151.976	1146.571	1139.366
49.0	1165.486	1142.068	1135.763	1130.359	1124.054
49.5	1149.274	1125.856	1119.551	1115.048	1108.743
50.0	1132.161	1109.643	1103.339	1098.835	1092.530
50.5	1115.048	1093.431	1087.126	1082.623	1077.219
51.0	1097.935	1077.219	1070.914	1066.411	1061.006
51.5	1081.722	1061.006	1054.702	1051.099	1044.794
52.0	1065.510	1044.794	1038.489	1034.887	1029.482
52.5	1048.397	1028.582	1022.277	1019.575	1013.270
53.0	1032.185	1012.369	1006.065	1003.363	997.058
53.5	1015.072	996.157	989.852	987.150	980.846
54.0	998.859	979.945	974.541	971.839	964.633
54.5	982.647	964.633	958.328	955.626	948.421

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55.0	966.435	949.322	943.017	940.315	933.109
55.5	951.123	933.109	926.804	924.102	917.798
56.0	934.010	916.897	910.592	908.791	901.585
56.5	917.798	901.585	894.830	892.849	885.733
57.0	902.486	885.373	878.888	876.726	869.971
57.5	886.634	869.701	863.036	861.054	854.029
58.0	870.782	854.209	847.094	845.292	838.267
58.5	854.840	838.627	831.422	829.801	823.136
59.0	839.168	822.956	815.660	814.129	807.734
59.5	823.946	807.103	799.628	798.547	792.512
60.0	808.364	791.341	783.776	782.875	777.021
60.5	792.963	775.940	768.464	767.113	761.349
61.0	777.831	760.538	753.243	751.711	746.037
61.5	761.619	745.317	738.111	736.400	730.906
62.0	745.677	729.645	722.439	721.178	715.414
62.5	729.374	715.144	707.668	706.677	700.733
63.0	713.702	702.354	696.319	695.869	691.005
63.5	697.850	688.393	683.620	682.629	677.585
64.0	688.303	674.793	670.470	668.488	662.724
64.5	673.442	660.292	655.608	653.807	648.403
65.0	656.779	644.800	640.927	639.216	633.992
65.5	639.756	629.128	625.616	624.805	619.491
66.0	623.364	613.817	610.664	610.304	604.630
66.5	607.151	598.145	595.443	595.443	590.399
67.0	591.119	582.563	580.401	580.671	576.078
67.5	575.357	567.251	565.270	565.810	561.307
68.0	559.415	551.940	550.138	550.859	546.175
68.5	543.383	536.358	534.917	535.907	531.314
69.0	526.810	520.686	519.605	520.145	515.912
69.5	510.688	505.284	504.023	504.654	500.781
70.0	494.746	489.702	488.802	489.072	485.649
70.5	479.074	474.030	473.400	473.670	470.428
71.0	463.042	458.448	458.268	458.629	455.116
71.5	447.010	442.867	443.227	443.497	440.435
72.0	431.428	427.195	427.915	428.276	425.664
72.5	415.846	411.793	412.964	413.324	411.163
73.0	400.444	396.752	398.373	398.823	396.932
73.5	385.493	381.890	383.782	384.592	382.521
74.0	370.722	367.029	369.371	370.001	368.650
74.5	355.951	352.438	355.050	355.680	354.690
75.0	341.089	337.937	340.909	341.540	340.729
75.5	326.408	323.436	326.858	327.669	326.768
76.0	311.547	309.475	312.988	313.889	313.168
76.5	297.496	295.695	299.207	300.198	299.568
77.0	283.806	281.824	285.697	286.598	285.607
77.5	269.665	268.314	272.187	272.907	271.917
78.0	255.884	254.804	258.677	259.757	258.767
78.5	242.194	241.654	245.346	246.607	245.797
79.0	229.044	228.504	232.287	233.818	233.187
79.5	215.894	215.624	219.407	221.028	220.488
80.0	202.924	203.014	206.527	208.779	208.058
80.5	189.864	190.675	194.278	196.439	195.899
81.0	177.345	178.606	182.118	184.370	184.010
81.5	165.276	166.627	170.229	172.481	172.211
82.0	154.017	154.918	158.611	160.952	160.682
82.5	142.759	143.569	147.172	149.514	149.334

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83.0	131.500	132.761	135.913	138.345	138.525
83.5	120.422	121.953	125.015	127.357	127.897
84.0	110.064	111.325	114.207	116.459	117.269
84.5	99.526	100.877	103.579	105.830	106.641
85.0	89.708	90.789	93.311	95.292	96.013
85.5	80.161	80.701	82.863	84.935	85.655
86.0	70.794	70.974	72.865	74.757	75.658
86.5	61.517	61.517	63.228	64.939	65.750
87.0	52.150	52.150	53.411	55.572	56.203
87.5	42.873	42.963	44.134	46.295	47.106
88.0	34.046	33.956	35.127	37.468	38.369
88.5	25.579	25.039	26.570	28.642	29.903
89.0	16.573	16.302	18.374	20.355	21.706
89.5	7.656	9.097	10.988	12.520	12.970
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.665	2.986	2.756	2.680	2.909
91.0	12.479	6.584	5.359	5.283	5.206
91.5	20.058	13.398	7.962	7.885	7.809
92.0	27.714	22.278	11.484	10.259	10.259
92.5	35.676	31.465	17.762	12.862	12.632
93.0	43.944	40.270	25.111	17.072	15.388
93.5	52.289	48.691	32.997	23.044	20.058
94.0	60.481	56.959	41.724	30.164	26.413
94.5	68.902	65.228	50.835	37.514	33.303
95.0	77.171	73.726	59.792	45.016	40.116
95.5	85.439	81.688	68.520	52.749	47.313
96.0	93.324	89.803	77.094	60.787	54.663
96.5	101.286	97.918	85.669	68.979	62.242
97.0	109.019	105.880	94.167	77.171	70.280
97.5	116.981	113.919	102.741	85.515	78.319
98.0	124.866	121.804	111.086	93.784	86.434
98.5	132.752	129.766	119.125	102.205	94.549
99.0	140.791	137.958	127.316	110.244	102.741
99.5	148.906	146.073	135.585	118.282	110.780
100.0	156.868	154.265	143.853	126.551	118.665
100.5	165.136	162.456	152.121	135.125	126.627
101.0	173.634	170.648	160.543	143.776	135.278
101.5	182.285	178.993	169.117	152.427	144.236
102.0	190.706	187.644	177.692	161.078	153.116
102.5	199.511	196.219	186.572	169.730	161.921
103.0	208.545	205.099	195.377	178.304	170.878
103.5	217.578	214.133	204.717	187.491	179.759
104.0	226.842	223.244	214.210	196.984	189.022
104.5	236.412	232.737	223.703	206.707	198.286
105.0	246.211	242.460	233.120	216.277	207.702
105.5	256.240	252.336	242.843	225.923	217.042
106.0	266.423	262.288	252.719	235.723	226.383
106.5	276.681	272.547	263.054	245.599	235.799
107.0	287.629	283.265	274.078	256.087	246.058
107.5	298.960	294.290	285.256	267.188	257.159
108.0	310.214	305.620	296.663	279.208	268.566
108.5	322.080	317.181	308.070	291.227	280.356
109.0	334.253	328.971	319.784	303.400	292.299
109.5	346.732	341.220	332.109	315.496	304.395
110.0	360.053	353.775	344.742	327.899	317.027
110.5	373.681	366.637	357.680	341.220	330.119

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111.0	387.461	380.111	371.078	355.077	343.287
111.5	401.548	393.968	384.705	369.164	356.838
112.0	416.170	408.208	398.256	383.250	369.776
112.5	430.869	422.831	411.960	397.260	383.480
113.0	446.258	437.913	426.429	411.730	397.796
113.5	462.105	453.684	441.741	427.348	413.185
114.0	478.182	469.761	457.971	443.961	430.257
114.5	494.796	486.374	474.508	461.263	448.401
115.0	511.638	503.447	491.657	478.718	466.775
115.5	529.247	520.672	509.265	496.097	484.920
116.0	547.008	538.587	527.486	514.394	503.370
116.5	565.765	556.961	546.319	533.151	523.046
117.0	585.287	575.718	565.306	553.363	543.333
117.5	599.680	590.340	582.684	571.966	563.928
118.0	618.054	607.413	600.522	591.182	582.225
118.5	639.414	627.777	618.743	609.020	598.685
119.0	660.314	647.835	639.414	629.232	616.982
119.5	681.444	669.195	661.310	649.749	637.500
120.0	703.264	691.320	683.282	672.181	659.166
120.5	724.930	713.752	705.943	695.991	682.287
121.0	747.667	736.643	728.757	719.724	706.862
121.5	770.175	759.304	751.495	743.763	730.901
122.0	793.908	782.425	775.534	767.879	755.017
122.5	816.876	805.392	799.268	791.612	777.831
123.0	840.609	829.891	823.766	817.641	803.095
123.5	865.108	854.389	849.796	843.671	829.125
124.0	889.606	879.654	875.060	869.701	855.921
124.5	914.105	904.152	900.324	894.965	881.950
125.0	938.603	928.651	924.823	920.229	907.215
125.5	963.868	953.915	950.087	945.494	931.713
126.0	988.366	978.414	976.117	970.758	956.212
126.5	1012.865	1002.912	1002.147	997.553	982.242
127.0	1038.129	1028.176	1028.176	1024.349	1009.803
127.5	1063.393	1052.675	1052.675	1050.378	1037.363
128.0	1087.892	1077.174	1077.939	1076.408	1063.393
128.5	1112.391	1100.907	1102.438	1102.438	1088.657
129.0	1136.889	1124.640	1126.937	1127.702	1114.687
129.5	1161.388	1149.138	1152.201	1153.732	1141.483
130.0	1185.886	1173.637	1177.465	1179.762	1169.809
130.5	1210.385	1197.370	1203.495	1205.026	1196.605
131.0	1234.884	1221.103	1227.993	1229.525	1221.103
131.5	1257.851	1244.071	1252.492	1252.492	1244.836
132.0	1281.584	1267.038	1276.225	1276.991	1267.804
132.5	1304.552	1290.771	1299.958	1300.724	1290.771
133.0	1327.519	1314.504	1322.926	1324.457	1312.973
133.5	1350.486	1337.472	1346.659	1348.190	1336.706
134.0	1373.454	1359.673	1368.860	1371.157	1359.673
134.5	1394.125	1381.875	1390.297	1391.828	1381.875
135.0	1414.795	1403.312	1410.967	1412.499	1401.780
135.5	1434.700	1425.514	1431.638	1432.404	1421.686
136.0	1454.606	1446.184	1450.778	1453.074	1442.356
136.5	1475.276	1466.089	1469.917	1473.745	1463.793
137.0	1494.416	1485.994	1489.822	1492.885	1483.698
137.5	1513.555	1504.368	1508.196	1510.493	1501.306
138.0	1531.929	1522.742	1525.805	1527.336	1518.149
138.5	1550.303	1540.351	1543.413	1544.179	1534.226

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

139.0	1567.912	1557.959	1561.022	1561.022	1550.303
139.5	1585.520	1575.568	1577.864	1577.099	1565.615
140.0	1602.363	1591.645	1594.707	1593.942	1582.458
140.5	1618.440	1606.956	1610.019	1609.253	1597.004
141.0	1634.517	1623.034	1625.330	1623.799	1611.550
141.5	1649.063	1637.580	1640.642	1638.345	1624.565
142.0	1664.375	1652.891	1655.188	1652.126	1638.345
142.5	1678.921	1667.437	1669.734	1666.672	1651.360
143.0	1693.467	1681.218	1683.515	1680.452	1665.141
143.5	1707.248	1695.764	1697.295	1694.233	1678.156
144.0	1720.263	1709.544	1710.310	1706.482	1690.405
144.5	1733.277	1722.559	1723.325	1718.731	1702.654
145.0	1745.527	1735.574	1735.574	1730.215	1714.138
145.5	1758.542	1748.589	1747.823	1743.230	1726.387
146.0	1770.791	1760.838	1760.073	1754.714	1738.637
146.5	1783.040	1773.088	1771.557	1766.963	1750.886
147.0	1794.524	1785.337	1782.275	1779.212	1763.135
147.5	1806.008	1796.821	1793.758	1790.696	1774.619
148.0	1817.491	1808.304	1803.711	1801.414	1786.868
148.5	1828.975	1819.788	1813.664	1812.132	1799.117
149.0	1839.693	1831.272	1823.616	1822.851	1811.367
149.5	1850.411	1841.990	1832.803	1833.569	1822.851
150.0	1861.130	1852.708	1842.756	1843.521	1833.569
150.5	1871.848	1863.426	1851.943	1852.708	1844.287
151.0	1881.800	1873.379	1861.130	1861.895	1854.239
151.5	1892.518	1883.331	1871.082	1871.082	1863.426
152.0	1902.471	1893.284	1880.269	1879.504	1872.613
152.5	1912.424	1902.471	1889.456	1888.691	1881.035
153.0	1922.376	1911.658	1898.643	1897.878	1888.691
153.5	1931.563	1920.845	1907.830	1907.065	1895.581
154.0	1940.750	1930.032	1917.783	1916.252	1903.237
154.5	1950.703	1938.453	1926.970	1924.673	1910.892
155.0	1959.890	1946.875	1936.157	1933.860	1919.314
155.5	1968.311	1954.531	1945.344	1943.047	1927.735
156.0	1976.732	1962.952	1955.296	1951.468	1936.157
156.5	1985.154	1971.373	1964.483	1960.655	1944.578
157.0	1993.575	1979.795	1973.670	1969.842	1952.999
157.5	2001.231	1987.451	1982.092	1978.264	1961.421
158.0	2008.887	1995.106	1990.513	1986.685	1969.842
158.5	2017.308	2003.528	1998.934	1995.106	1979.029
159.0	2024.199	2011.184	2006.590	2003.528	1987.451
159.5	2031.854	2018.839	2014.246	2011.949	1995.872
160.0	2038.745	2025.730	2021.902	2019.605	2004.293
160.5	2045.635	2032.620	2028.792	2027.261	2012.715
161.0	2052.525	2039.510	2035.682	2034.917	2021.136
161.5	2059.415	2047.166	2041.807	2042.573	2029.558
162.0	2067.071	2054.056	2047.932	2050.228	2037.213
162.5	2073.961	2060.946	2054.056	2057.119	2044.104
163.0	2080.852	2067.837	2060.181	2064.009	2050.994
163.5	2087.742	2073.961	2066.306	2070.899	2057.119
164.0	2094.632	2080.086	2071.665	2077.024	2063.243
164.5	2099.991	2086.211	2077.024	2083.148	2069.368
165.0	2106.116	2092.335	2082.383	2089.273	2074.727
165.5	2112.240	2097.694	2087.742	2094.632	2080.086
166.0	2118.365	2103.053	2093.101	2099.991	2084.680
166.5	2124.490	2108.413	2098.460	2104.585	2090.039

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

167.0	2129.849	2113.006	2103.053	2109.178	2094.632
167.5	2135.208	2117.600	2108.413	2113.772	2099.991
168.0	2140.567	2122.193	2113.006	2118.365	2104.585
168.5	2145.926	2126.787	2117.600	2122.959	2109.944
169.0	2150.520	2130.614	2122.193	2126.787	2114.537
169.5	2154.347	2134.442	2126.021	2130.614	2119.131
170.0	2158.175	2138.270	2129.849	2134.442	2124.490
170.5	2162.003	2142.098	2132.911	2138.270	2128.318
171.0	2165.831	2145.161	2135.974	2142.098	2132.146
171.5	2168.894	2148.223	2139.036	2145.926	2135.974
172.0	2171.956	2151.285	2141.333	2148.988	2139.036
172.5	2175.018	2154.347	2143.629	2151.285	2141.333
173.0	2178.081	2157.410	2145.926	2154.347	2142.864
173.5	2180.377	2159.707	2148.223	2155.879	2144.395
174.0	2182.674	2162.003	2150.520	2157.410	2145.161
174.5	2184.205	2163.534	2152.051	2158.941	2145.926
175.0	2185.736	2165.831	2153.582	2159.707	2145.926
175.5	2187.268	2167.362	2155.879	2160.472	2146.692
176.0	2188.799	2168.894	2157.410	2160.472	2146.692
176.5	2189.564	2170.425	2158.175	2161.238	2146.692
177.0	2190.330	2171.956	2159.707	2161.238	2145.926
177.5	2191.861	2173.487	2161.238	2161.238	2145.926
178.0	2192.627	2173.487	2162.003	2161.238	2146.692
178.5	2192.627	2174.253	2162.769	2161.238	2146.692
179.0	2193.392	2175.018	2162.769	2161.238	2146.692
179.5	2194.158	2175.018	2163.534	2161.238	2146.692
180.0	2167.362	2167.362	2167.362	2167.362	2167.362

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

Zone	Lumens	%Lamp	%Fixt
0-20	776.02	N.A.	7.00
0-30	1622.4	N.A.	14.70
0-40	2606.4	N.A.	23.70
0-60	4428.87	N.A.	40.20
0-80	5423.64	N.A.	49.30
0-90	5528.75	N.A.	50.20
10-90	5326.2	N.A.	48.40
20-40	1830.38	N.A.	16.60
20-50	2807.21	N.A.	25.50
40-70	2455.83	N.A.	22.30
60-80	994.78	N.A.	9.00
70-80	361.41	N.A.	3.30
80-90	105.11	N.A.	1.00
90-110	313.66	N.A.	2.80
90-120	805.18	N.A.	7.30
90-130	1631.16	N.A.	14.80
90-150	3793.96	N.A.	34.50
90-180	5483.28	N.A.	49.80
110-180	5169.62	N.A.	46.90
0-180	11012.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	202.56
10-20	573.47
20-30	846.37
30-40	984.01
40-50	976.83
50-60	845.64
60-70	633.36
70-80	361.41
80-90	105.11
90-100	67.65
100-110	246.00
110-120	491.52
120-130	825.98
130-140	1080.05
140-150	1082.75
150-160	894.41
160-170	589.38
170-180	205.54

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-830U-L12-830D-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	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	48	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-L15-830U-L12-830D-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	17.1	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	20.6	21.9	18.8	19.6	19.8	20.6	21.8
	4H	19.5	20.2	20.5	21.2	22.5	19.4	20.2	20.4	21.1	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	20.1	20.8	21.1	21.8	23.1	20.1	20.7	21.1	21.7	23.1

UGR Viewed Endwise

4H	2H	17.7	18.4	18.7	19.4	20.7	17.6	18.3	18.6	19.3	20.6
	3H	19.6	20.2	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	23.8
	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	22.3	22.7	24.0	21.2	21.6	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	22.0	22.8	23.1	24.5	21.8	22.1	22.9	23.1	24.5

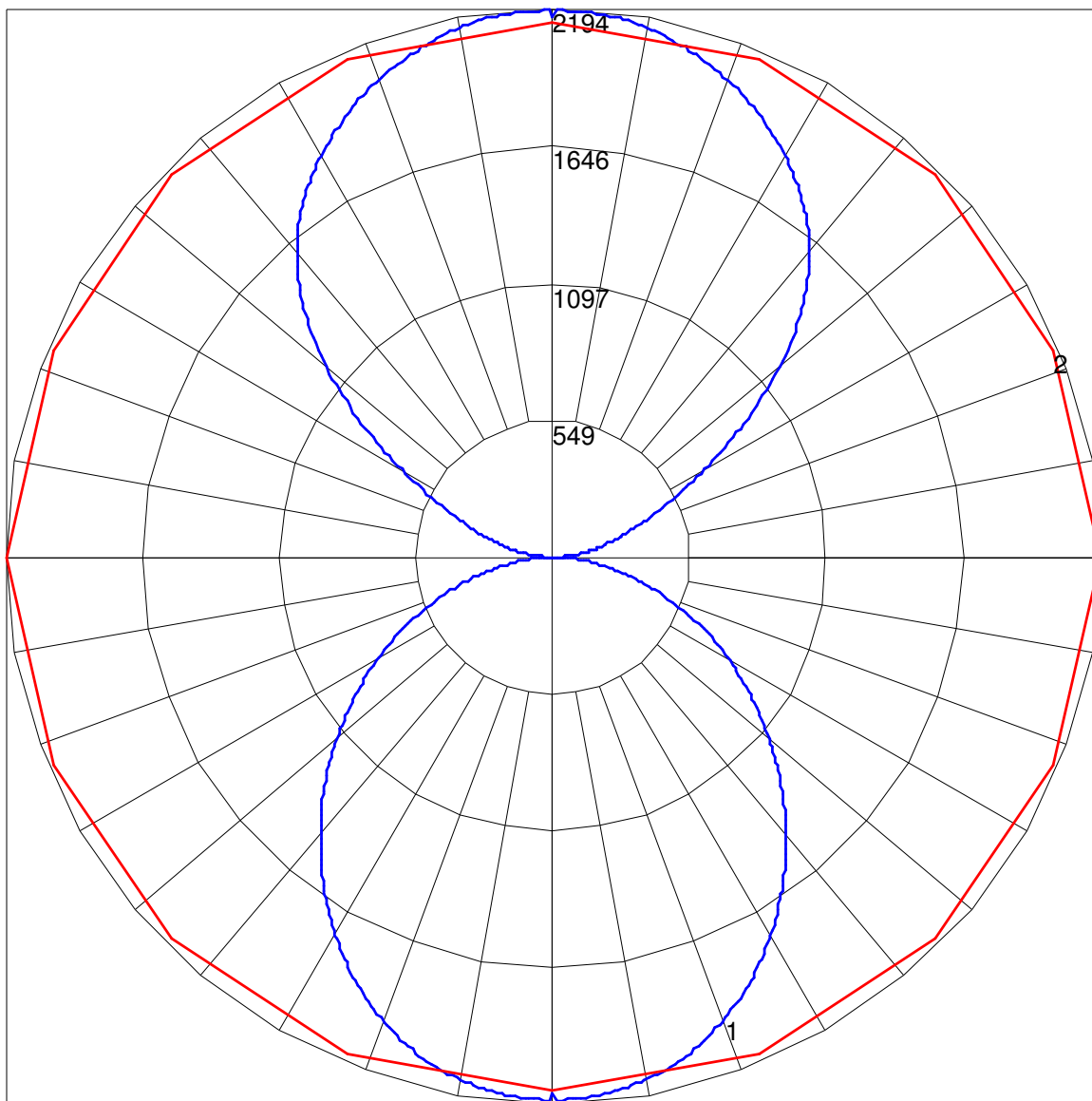
12H	4H	20.6	21.0	21.6	22.1	23.4	20.6	21.0	21.6	22.0	23.4
	6H	21.3	21.7	22.4	22.7	24.1	21.3	21.7	22.4	22.7	24.1
	8H	21.6	21.9	22.7	23.0	24.4	21.7	21.9	22.7	23.0	24.4

Maximum UGR = 24.5

IES INDOOR REPORT

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

POLAR GRAPH



Maximum Candela = 2194.158 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.)