

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-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-L15-840U-L12-840D-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	11457
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	15396	15011	14840
55	14153	13810	13665
65	13054	12739	12601
75	11070	11064	11058
85	8646	8993	9253

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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	2233.989	2233.989	2233.989	2233.989	2233.989
0.5	2267.724	2235.863	2224.618	2229.304	2221.807
1.0	2267.724	2234.926	2224.618	2229.304	2221.807
1.5	2266.787	2233.989	2223.681	2229.304	2220.870
2.0	2265.850	2233.052	2222.744	2228.367	2220.870
2.5	2264.912	2232.115	2220.870	2227.429	2219.933
3.0	2263.038	2230.241	2219.933	2226.492	2218.059
3.5	2261.164	2228.367	2218.059	2224.618	2216.185
4.0	2259.290	2226.492	2216.185	2222.744	2214.310
4.5	2257.416	2223.681	2214.310	2220.870	2211.499
5.0	2255.542	2221.807	2211.499	2218.059	2208.688
5.5	2252.730	2218.996	2208.688	2215.247	2205.877
6.0	2249.919	2215.247	2205.877	2212.436	2202.128
6.5	2246.171	2212.436	2202.128	2208.688	2199.317
7.0	2243.360	2208.688	2199.317	2204.940	2195.569
7.5	2240.549	2204.940	2195.569	2201.191	2192.758
8.0	2235.863	2201.191	2190.883	2197.443	2189.009
8.5	2232.115	2196.506	2186.198	2192.758	2184.324
9.0	2227.429	2192.758	2182.450	2188.072	2179.639
9.5	2222.744	2188.072	2176.827	2182.450	2174.953
10.0	2218.059	2183.387	2172.142	2177.764	2169.331
10.5	2212.436	2177.764	2166.520	2172.142	2164.645
11.0	2207.751	2172.142	2160.897	2166.520	2158.086
11.5	2201.191	2166.520	2155.275	2160.897	2152.463
12.0	2195.569	2160.897	2149.652	2154.338	2145.904
12.5	2189.946	2154.338	2143.093	2147.778	2139.344
13.0	2183.387	2148.715	2136.533	2141.218	2132.785
13.5	2176.827	2141.218	2129.974	2133.722	2126.225
14.0	2170.268	2134.659	2122.477	2127.162	2119.666
14.5	2163.708	2128.099	2114.980	2119.666	2112.169
15.0	2157.149	2120.603	2107.484	2112.169	2104.673
15.5	2148.715	2114.043	2099.987	2103.735	2096.239
16.0	2139.344	2106.547	2091.553	2096.239	2088.742
16.5	2129.974	2098.113	2083.120	2087.805	2080.309
17.0	2121.540	2089.679	2074.686	2079.371	2071.875
17.5	2112.169	2080.309	2065.315	2070.001	2062.504
18.0	2102.798	2070.938	2055.945	2060.630	2053.133
18.5	2093.428	2061.567	2046.574	2050.322	2043.763
19.0	2084.057	2052.196	2038.140	2040.951	2032.518
19.5	2073.749	2042.825	2028.769	2029.706	2021.273
20.0	2064.378	2032.518	2020.336	2019.399	2010.028
20.5	2054.070	2023.147	2010.965	2008.154	1998.783
21.0	2043.763	2012.839	2000.657	1996.909	1986.601
21.5	2032.518	2002.531	1989.412	1985.664	1974.419
22.0	2022.210	1991.286	1977.230	1973.482	1963.174
22.5	2010.965	1980.041	1965.985	1961.300	1950.992
23.0	1999.720	1968.796	1954.740	1948.181	1938.810
23.5	1988.475	1957.552	1942.558	1935.999	1927.565
24.0	1976.293	1946.307	1931.313	1923.817	1915.383
24.5	1964.111	1934.125	1919.131	1911.635	1903.201
25.0	1952.866	1921.943	1906.949	1899.453	1891.019
25.5	1940.684	1909.761	1893.830	1887.271	1877.900
26.0	1927.565	1896.642	1881.648	1875.089	1865.718
26.5	1915.383	1884.460	1868.529	1862.907	1853.536

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27.0	1902.264	1871.341	1855.410	1850.725	1840.417
27.5	1889.145	1858.222	1843.228	1838.543	1828.235
28.0	1876.026	1844.165	1829.172	1825.424	1815.116
28.5	1861.970	1830.109	1816.053	1813.242	1801.997
29.0	1847.914	1816.990	1802.934	1800.123	1788.878
29.5	1834.795	1802.934	1789.815	1786.067	1776.696
30.0	1820.738	1788.878	1776.696	1772.948	1763.577
30.5	1806.682	1774.822	1762.640	1759.829	1750.458
31.0	1791.689	1761.703	1748.584	1745.772	1737.339
31.5	1777.633	1747.647	1734.528	1731.716	1723.283
32.0	1762.640	1732.653	1720.471	1716.723	1709.226
32.5	1747.647	1718.597	1706.415	1702.667	1694.233
33.0	1732.653	1704.541	1692.359	1688.611	1679.240
33.5	1718.597	1689.548	1677.366	1673.618	1665.184
34.0	1702.667	1674.555	1663.310	1658.624	1650.191
34.5	1687.674	1659.561	1647.379	1643.631	1634.260
35.0	1672.681	1645.505	1632.386	1628.638	1618.330
35.5	1656.750	1629.575	1617.393	1613.645	1602.400
36.0	1640.820	1614.582	1602.400	1597.714	1587.407
36.5	1625.827	1599.589	1587.407	1582.721	1572.413
37.0	1609.896	1583.658	1571.476	1566.791	1556.483
37.5	1593.966	1567.728	1556.483	1550.861	1541.490
38.0	1577.099	1551.798	1540.553	1534.930	1525.560
38.5	1561.168	1535.867	1524.623	1519.937	1509.629
39.0	1546.175	1519.937	1508.692	1504.007	1494.636
39.5	1529.308	1504.007	1493.699	1488.077	1477.769
40.0	1513.378	1487.139	1477.769	1472.146	1462.776
40.5	1496.510	1471.209	1461.838	1456.216	1446.845
41.0	1480.580	1454.342	1445.908	1439.349	1429.978
41.5	1463.713	1438.412	1429.041	1423.418	1413.110
42.0	1447.782	1421.544	1413.110	1407.488	1397.180
42.5	1431.852	1405.614	1397.180	1390.621	1381.250
43.0	1414.985	1389.684	1381.250	1374.690	1364.383
43.5	1399.054	1372.816	1364.383	1358.760	1348.452
44.0	1382.187	1355.949	1347.515	1341.893	1332.522
44.5	1365.320	1339.081	1330.648	1325.025	1315.655
45.0	1348.452	1323.151	1314.718	1308.158	1299.724
45.5	1332.522	1306.284	1297.850	1292.228	1283.794
46.0	1315.655	1289.416	1280.983	1275.360	1267.864
46.5	1298.787	1272.549	1265.052	1259.430	1251.933
47.0	1281.920	1255.682	1248.185	1242.563	1235.066
47.5	1264.115	1238.814	1231.318	1225.695	1219.136
48.0	1247.248	1221.947	1214.450	1209.765	1202.268
48.5	1230.381	1205.080	1198.520	1192.898	1185.401
49.0	1212.576	1188.212	1181.653	1176.030	1169.471
49.5	1195.709	1171.345	1164.785	1160.100	1153.540
50.0	1177.904	1154.478	1147.918	1143.233	1136.673
50.5	1160.100	1137.610	1131.051	1126.365	1120.743
51.0	1142.296	1120.743	1114.183	1109.498	1103.875
51.5	1125.428	1103.875	1097.316	1093.568	1087.008
52.0	1108.561	1087.008	1080.449	1076.700	1071.078
52.5	1090.756	1070.141	1063.581	1060.770	1054.210
53.0	1073.889	1053.273	1046.714	1043.903	1037.343
53.5	1056.085	1036.406	1029.846	1027.035	1020.476
54.0	1039.217	1019.539	1013.916	1011.105	1003.608
54.5	1022.350	1003.608	997.049	994.238	986.741

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55.0	1005.482	987.678	981.118	978.307	970.811
55.5	989.552	970.811	964.251	961.440	954.880
56.0	971.748	953.943	947.384	945.510	938.013
56.5	954.880	938.013	930.985	928.923	921.520
57.0	938.950	921.146	914.399	912.150	905.122
57.5	922.458	904.841	897.906	895.845	888.535
58.0	905.965	888.723	881.320	879.446	872.137
58.5	889.379	872.511	865.015	863.328	856.394
59.0	873.074	856.206	848.616	847.023	840.370
59.5	857.237	839.714	831.936	830.812	824.533
60.0	841.026	823.315	815.443	814.506	808.415
60.5	825.002	807.291	799.513	798.108	792.110
61.0	809.259	791.267	783.677	782.084	776.180
61.5	792.391	775.430	767.934	766.153	760.437
62.0	775.805	759.125	751.629	750.317	744.319
62.5	758.844	744.038	736.261	735.230	729.045
63.0	742.539	730.732	724.453	723.985	718.925
63.5	726.046	716.207	711.241	710.210	704.962
64.0	716.113	702.057	697.559	695.498	689.500
64.5	700.652	686.970	682.098	680.223	674.601
65.0	683.316	670.853	666.823	665.043	659.608
65.5	665.605	654.548	650.893	650.050	644.521
66.0	648.550	638.617	635.337	634.963	629.059
66.5	631.683	622.312	619.501	619.501	614.253
67.0	615.003	606.101	603.852	604.133	599.354
67.5	598.604	590.170	588.109	588.671	583.986
68.0	582.018	574.240	572.366	573.116	568.243
68.5	565.338	558.029	556.529	557.560	552.781
69.0	548.096	541.724	540.599	541.161	536.757
69.5	531.322	525.700	524.388	525.044	521.014
70.0	514.736	509.488	508.551	508.832	505.271
70.5	498.431	493.183	492.527	492.808	489.435
71.0	481.751	476.972	476.784	477.159	473.504
71.5	465.071	460.760	461.135	461.416	458.230
72.0	448.859	444.455	445.205	445.580	442.862
72.5	432.648	428.431	429.649	430.024	427.775
73.0	416.624	412.782	414.469	414.937	412.969
73.5	401.068	397.320	399.288	400.131	397.976
74.0	385.700	381.858	384.295	384.951	383.545
74.5	370.332	366.678	369.395	370.051	369.020
75.0	354.871	351.591	354.683	355.339	354.496
75.5	339.596	336.504	340.065	340.908	339.971
76.0	324.135	321.979	325.634	326.571	325.821
76.5	309.516	307.642	311.297	312.327	311.671
77.0	295.273	293.211	297.240	298.178	297.147
77.5	280.561	279.155	283.184	283.934	282.903
78.0	266.223	265.099	269.128	270.253	269.222
78.5	251.980	251.417	255.259	256.571	255.728
79.0	238.298	237.736	241.672	243.265	242.609
79.5	224.617	224.336	228.272	229.958	229.396
80.0	211.123	211.217	214.872	217.214	216.465
80.5	197.536	198.379	202.127	204.376	203.814
81.0	184.510	185.822	189.477	191.819	191.445
81.5	171.953	173.359	177.107	179.450	179.169
82.0	160.240	161.177	165.019	167.455	167.174
82.5	148.527	149.370	153.118	155.555	155.367

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83.0	136.813	138.125	141.405	143.935	144.122
83.5	125.287	126.880	130.066	132.503	133.065
84.0	114.511	115.823	118.821	121.164	122.007
84.5	103.547	104.953	107.764	110.106	110.950
85.0	93.333	94.457	97.081	99.143	99.892
85.5	83.400	83.962	86.211	88.366	89.116
86.0	73.654	73.842	75.809	77.777	78.714
86.5	64.002	64.002	65.783	67.563	68.407
87.0	54.257	54.257	55.569	57.818	58.474
87.5	44.605	44.699	45.917	48.166	49.009
88.0	35.421	35.328	36.546	38.982	39.919
88.5	26.613	26.051	27.644	29.799	31.111
89.0	17.242	16.961	19.116	21.178	22.584
89.5	7.965	9.464	11.432	13.025	13.494
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.894	3.106	2.867	2.788	3.027
91.0	12.983	6.850	5.576	5.496	5.416
91.5	20.869	13.939	8.284	8.204	8.124
92.0	28.834	23.179	11.948	10.673	10.673
92.5	37.118	32.737	18.479	13.381	13.142
93.0	45.720	41.897	26.126	17.762	16.010
93.5	54.402	50.658	34.330	23.975	20.869
94.0	62.925	59.261	43.410	31.383	27.480
94.5	71.686	67.863	52.889	39.029	34.648
95.0	80.289	76.704	62.208	46.835	41.737
95.5	88.891	84.988	71.288	54.880	49.225
96.0	97.095	93.431	80.209	63.243	56.871
96.5	105.379	101.874	89.130	71.766	64.757
97.0	113.424	110.158	97.971	80.289	73.120
97.5	121.707	118.521	106.892	88.971	81.483
98.0	129.912	126.725	115.574	97.573	89.926
98.5	138.116	135.009	123.938	106.335	98.370
99.0	146.479	143.532	132.460	114.698	106.892
99.5	154.922	151.975	141.063	123.061	115.256
100.0	163.206	160.498	149.665	131.664	123.460
100.5	171.808	169.020	158.267	140.585	131.744
101.0	180.649	177.543	167.029	149.585	140.744
101.5	189.650	186.225	175.950	158.586	150.063
102.0	198.412	195.226	184.871	167.587	159.303
102.5	207.572	204.147	194.111	176.587	168.463
103.0	216.971	213.386	203.271	185.508	177.782
103.5	226.369	222.785	212.988	195.066	187.022
104.0	236.007	232.264	222.865	204.943	196.659
104.5	245.964	242.140	232.742	215.059	206.297
105.0	256.159	252.256	242.539	225.015	216.094
105.5	266.593	262.531	252.654	235.051	225.812
106.0	277.187	272.886	262.929	245.247	235.529
106.5	287.860	283.559	273.682	255.522	245.326
107.0	299.251	294.710	285.152	266.434	256.000
107.5	311.039	306.180	296.781	277.984	267.549
108.0	322.748	317.969	308.649	290.489	279.417
108.5	335.094	329.996	320.517	302.994	291.684
109.0	347.758	342.262	332.704	315.659	304.109
109.5	360.741	355.007	345.528	328.244	316.694
110.0	374.601	368.069	358.670	341.147	329.837
110.5	388.779	381.451	372.132	355.007	343.457

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111.0	403.116	395.469	386.071	369.423	357.157
111.5	417.772	409.886	400.249	384.079	371.255
112.0	432.985	424.702	414.347	398.735	384.717
112.5	448.278	439.915	428.604	413.311	398.974
113.0	464.288	455.606	443.659	428.366	413.869
113.5	480.776	472.015	459.589	444.614	429.879
114.0	497.503	488.741	476.475	461.899	447.641
114.5	514.787	506.026	493.680	479.900	466.519
115.0	532.311	523.788	511.522	498.061	485.635
115.5	550.630	541.710	529.841	516.141	504.512
116.0	569.110	560.348	548.799	535.178	523.708
116.5	588.624	579.464	568.393	554.693	544.179
117.0	608.935	598.979	588.146	575.721	565.286
117.5	623.910	614.192	606.227	595.076	586.713
118.0	643.026	631.955	624.786	615.069	605.749
118.5	665.249	653.142	643.743	633.627	622.874
119.0	686.994	674.011	665.249	654.655	641.911
119.5	708.978	696.233	688.029	676.002	663.258
120.0	731.678	719.253	710.889	699.340	685.799
120.5	754.220	742.590	734.466	724.111	709.854
121.0	777.876	766.406	758.202	748.803	735.422
121.5	801.294	789.983	781.859	773.814	760.432
122.0	825.986	814.038	806.869	798.904	785.523
122.5	849.881	837.933	831.561	823.596	809.259
123.0	874.573	863.422	857.050	850.678	835.544
123.5	900.061	888.910	884.131	877.759	862.625
124.0	925.550	915.195	910.416	904.841	890.503
124.5	951.038	940.684	936.701	931.125	917.585
125.0	976.527	966.172	962.190	957.410	943.870
125.5	1002.812	992.457	988.475	983.695	969.358
126.0	1028.300	1017.946	1015.556	1009.980	994.847
126.5	1053.789	1043.434	1042.638	1037.858	1021.928
127.0	1080.074	1069.719	1069.719	1065.736	1050.603
127.5	1106.359	1095.207	1095.207	1092.818	1079.277
128.0	1131.847	1120.696	1121.492	1119.899	1106.359
128.5	1157.336	1145.388	1146.981	1146.981	1132.644
129.0	1182.824	1170.080	1172.469	1173.266	1159.725
129.5	1208.313	1195.568	1198.754	1200.347	1187.603
130.0	1233.801	1221.057	1225.039	1227.429	1217.074
130.5	1259.289	1245.749	1252.121	1253.714	1244.952
131.0	1284.778	1270.441	1277.609	1279.202	1270.441
131.5	1308.673	1294.336	1303.098	1303.098	1295.133
132.0	1333.365	1318.232	1327.790	1328.586	1319.028
132.5	1357.261	1342.923	1352.482	1353.278	1342.923
133.0	1381.156	1367.615	1376.377	1377.970	1366.022
133.5	1405.052	1391.511	1401.069	1402.662	1390.714
134.0	1428.947	1414.610	1424.168	1426.558	1414.610
134.5	1450.453	1437.709	1446.470	1448.063	1437.709
135.0	1471.959	1460.011	1467.976	1469.569	1458.418
135.5	1492.668	1483.110	1489.482	1490.279	1479.127
136.0	1513.378	1504.616	1509.395	1511.785	1500.633
136.5	1534.883	1525.325	1529.308	1533.290	1522.936
137.0	1554.796	1546.035	1550.017	1553.203	1543.645
137.5	1574.709	1565.151	1569.134	1571.523	1561.965
138.0	1593.826	1584.267	1587.453	1589.046	1579.488
138.5	1612.942	1602.587	1605.773	1606.570	1596.215

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1631.262	1620.907	1624.093	1624.093	1612.942
139.5	1649.582	1639.227	1641.616	1640.820	1628.872
140.0	1667.105	1655.954	1659.140	1658.343	1646.396
140.5	1683.832	1671.884	1675.070	1674.274	1661.529
141.0	1700.559	1688.611	1691.000	1689.407	1676.663
141.5	1715.692	1703.745	1706.931	1704.541	1690.204
142.0	1731.623	1719.675	1722.064	1718.878	1704.541
142.5	1746.756	1734.809	1737.198	1734.012	1718.082
143.0	1761.890	1749.146	1751.535	1748.349	1732.419
143.5	1776.227	1764.280	1765.873	1762.687	1745.960
144.0	1789.768	1778.617	1779.413	1775.431	1758.704
144.5	1803.309	1792.158	1792.954	1788.175	1771.448
145.0	1816.053	1805.698	1805.698	1800.123	1783.396
145.5	1829.594	1819.239	1818.443	1813.664	1796.140
146.0	1842.338	1831.983	1831.187	1825.611	1808.884
146.5	1855.082	1844.728	1843.135	1838.356	1821.629
147.0	1867.030	1857.472	1854.286	1851.100	1834.373
147.5	1878.978	1869.420	1866.234	1863.047	1846.321
148.0	1890.925	1881.367	1876.588	1874.199	1859.065
148.5	1902.873	1893.315	1886.943	1885.350	1871.809
149.0	1914.024	1905.263	1897.298	1896.501	1884.553
149.5	1925.176	1916.414	1906.856	1907.652	1896.501
150.0	1936.327	1927.565	1917.210	1918.007	1907.652
150.5	1947.478	1938.716	1926.769	1927.565	1918.803
151.0	1957.833	1949.071	1936.327	1937.123	1929.158
151.5	1968.984	1959.426	1946.682	1946.682	1938.716
152.0	1979.339	1969.780	1956.240	1955.443	1948.275
152.5	1989.693	1979.339	1965.798	1965.001	1957.036
153.0	2000.048	1988.897	1975.356	1974.560	1965.001
153.5	2009.606	1998.455	1984.914	1984.118	1972.170
154.0	2019.164	2008.013	1995.269	1993.676	1980.135
154.5	2029.519	2016.775	2004.827	2002.438	1988.100
155.0	2039.077	2025.536	2014.385	2011.996	1996.862
155.5	2047.839	2033.502	2023.943	2021.554	2005.624
156.0	2056.601	2042.263	2034.298	2030.316	2014.385
156.5	2065.362	2051.025	2043.856	2039.874	2023.147
157.0	2074.124	2059.787	2053.414	2049.432	2031.909
157.5	2082.089	2067.752	2062.176	2058.194	2040.670
158.0	2090.054	2075.717	2070.938	2066.955	2049.432
158.5	2098.816	2084.479	2079.699	2075.717	2058.990
159.0	2105.984	2092.444	2087.665	2084.479	2067.752
159.5	2113.950	2100.409	2095.630	2093.240	2076.513
160.0	2121.118	2107.577	2103.595	2101.205	2085.275
160.5	2128.287	2114.746	2110.763	2109.170	2094.037
161.0	2135.455	2121.915	2117.932	2117.136	2102.798
161.5	2142.624	2129.880	2124.304	2125.101	2111.560
162.0	2150.589	2137.048	2130.676	2133.066	2119.525
162.5	2157.758	2144.217	2137.048	2140.235	2126.694
163.0	2164.926	2151.386	2143.421	2147.403	2133.862
163.5	2172.095	2157.758	2149.793	2154.572	2140.235
164.0	2179.264	2164.130	2155.368	2160.944	2146.607
164.5	2184.839	2170.502	2160.944	2167.316	2152.979
165.0	2191.211	2176.874	2166.520	2173.688	2158.554
165.5	2197.584	2182.450	2172.095	2179.264	2164.130
166.0	2203.956	2188.025	2177.671	2184.839	2168.909
166.5	2210.328	2193.601	2183.246	2189.618	2174.485

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2215.903	2198.380	2188.025	2194.398	2179.264
167.5	2221.479	2203.159	2193.601	2199.177	2184.839
168.0	2227.055	2207.938	2198.380	2203.956	2189.618
168.5	2232.630	2212.717	2203.159	2208.735	2195.194
169.0	2237.409	2216.700	2207.938	2212.717	2199.973
169.5	2241.392	2220.682	2211.921	2216.700	2204.752
170.0	2245.374	2224.665	2215.903	2220.682	2210.328
170.5	2249.357	2228.648	2219.089	2224.665	2214.310
171.0	2253.340	2231.834	2222.276	2228.648	2218.293
171.5	2256.526	2235.020	2225.462	2232.630	2222.276
172.0	2259.712	2238.206	2227.851	2235.816	2225.462
172.5	2262.898	2241.392	2230.241	2238.206	2227.851
173.0	2266.084	2244.578	2232.630	2241.392	2229.444
173.5	2268.473	2246.967	2235.020	2242.985	2231.037
174.0	2270.863	2249.357	2237.409	2244.578	2231.834
174.5	2272.456	2250.950	2239.002	2246.171	2232.630
175.0	2274.049	2253.340	2240.595	2246.967	2232.630
175.5	2275.642	2254.933	2242.985	2247.764	2233.427
176.0	2277.235	2256.526	2244.578	2247.764	2233.427
176.5	2278.032	2258.119	2245.374	2248.561	2233.427
177.0	2278.828	2259.712	2246.967	2248.561	2232.630
177.5	2280.421	2261.305	2248.561	2248.561	2232.630
178.0	2281.218	2261.305	2249.357	2248.561	2233.427
178.5	2281.218	2262.101	2250.154	2248.561	2233.427
179.0	2282.014	2262.898	2250.154	2248.561	2233.427
179.5	2282.811	2262.898	2250.950	2248.561	2233.427
180.0	2254.933	2254.933	2254.933	2254.933	2254.933

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	807.38	N.A.	7.00
0-30	1687.95	N.A.	14.70
0-40	2711.71	N.A.	23.70
0-60	4607.81	N.A.	40.20
0-80	5642.78	N.A.	49.30
0-90	5752.14	N.A.	50.20
10-90	5541.4	N.A.	48.40
20-40	1904.34	N.A.	16.60
20-50	2920.63	N.A.	25.50
40-70	2555.05	N.A.	22.30
60-80	1034.97	N.A.	9.00
70-80	376.01	N.A.	3.30
80-90	109.36	N.A.	1.00
90-110	326.33	N.A.	2.80
90-120	837.71	N.A.	7.30
90-130	1697.07	N.A.	14.80
90-150	3947.25	N.A.	34.50
90-180	5704.83	N.A.	49.80
110-180	5378.5	N.A.	46.90
0-180	11456.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	210.74
10-20	596.64
20-30	880.57
30-40	1023.76
40-50	1016.29
50-60	879.81
60-70	658.96
70-80	376.01
80-90	109.36
90-100	70.38
100-110	255.94
110-120	511.38
120-130	859.36
130-140	1123.69
140-150	1126.5
150-160	930.54
160-170	613.19
170-180	213.84

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-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-L15-840U-L12-840D-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	17.3	18.2	18.3	19.2	20.4	17.2	18.1	18.2	19.1	20.3
	3H	19.1	19.9	20.1	20.8	22.1	19.0	19.8	20.0	20.8	22.0
	4H	19.7	20.4	20.7	21.4	22.7	19.6	20.4	20.6	21.3	22.6
	6H	20.1	20.8	21.1	21.8	23.1	20.1	20.8	21.1	21.8	23.1
	8H	20.3	20.9	21.3	21.9	23.2	20.2	20.9	21.2	21.9	23.2
	12H	20.3	21.0	21.3	22.0	23.3	20.3	20.9	21.3	21.9	23.3

UGR Viewed Endwise

4H	2H	17.9	18.6	18.9	19.6	20.9	17.8	18.5	18.8	19.5	20.8
	3H	19.8	20.4	20.8	21.5	22.8	19.8	20.4	20.8	21.4	22.7
	4H	20.6	21.1	21.6	22.1	23.5	20.5	21.1	21.5	22.1	23.4
	6H	21.1	21.6	22.1	22.6	24.0	21.1	21.6	22.1	22.6	24.0
	8H	21.3	21.8	22.3	22.8	24.1	21.3	21.8	22.3	22.8	24.1
	12H	21.4	21.8	22.5	22.9	24.2	21.4	21.8	22.5	22.9	24.2

8H	4H	20.8	21.3	21.8	22.3	23.6	20.8	21.2	21.8	22.2	23.6
	6H	21.5	21.9	22.5	22.9	24.3	21.5	21.9	22.5	22.9	24.3
	8H	21.8	22.1	22.8	23.1	24.5	21.8	22.1	22.8	23.2	24.5
	12H	22.0	22.2	23.0	23.3	24.7	22.0	22.3	23.1	23.3	24.7

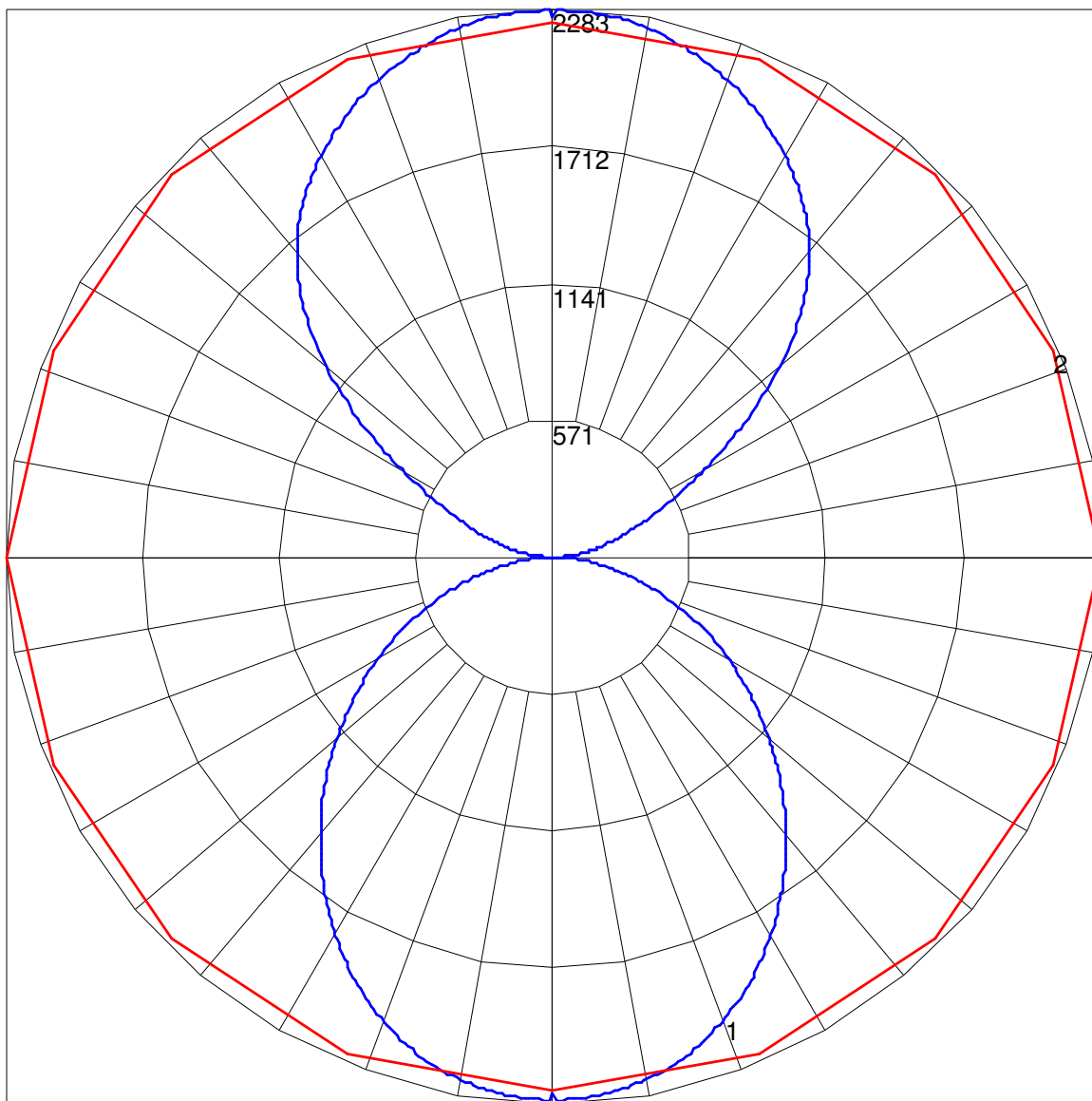
12H	4H	20.8	21.2	21.8	22.3	23.6	20.8	21.2	21.8	22.2	23.6
	6H	21.5	21.9	22.6	22.9	24.3	21.5	21.9	22.6	22.9	24.3
	8H	21.8	22.1	22.9	23.2	24.6	21.9	22.1	22.9	23.2	24.6

Maximum UGR = 24.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-840U-L12-840D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2282.811 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.)