

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-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-L12-827U-L15-827D-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	10677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	14527	14164	14002
55	13354	13031	12894
65	12317	12020	11890
75	10445	10440	10434
85	8158	8486	8731

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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	2107.952	2107.952	2107.952	2107.952	2107.952
0.5	2139.783	2109.720	2099.110	2103.531	2096.457
1.0	2139.783	2108.836	2099.110	2103.531	2096.457
1.5	2138.899	2107.952	2098.225	2103.531	2095.573
2.0	2138.015	2107.068	2097.341	2102.647	2095.573
2.5	2137.131	2106.183	2095.573	2101.762	2094.689
3.0	2135.362	2104.415	2094.689	2100.878	2092.920
3.5	2133.594	2102.647	2092.920	2099.110	2091.152
4.0	2131.825	2100.878	2091.152	2097.341	2089.383
4.5	2130.057	2098.225	2089.383	2095.573	2086.731
5.0	2128.289	2096.457	2086.731	2092.920	2084.078
5.5	2125.636	2093.804	2084.078	2090.268	2081.426
6.0	2122.983	2090.268	2081.426	2087.615	2077.889
6.5	2119.446	2087.615	2077.889	2084.078	2075.236
7.0	2116.794	2084.078	2075.236	2080.541	2071.699
7.5	2114.141	2080.541	2071.699	2077.005	2069.047
8.0	2109.720	2077.005	2067.278	2073.468	2065.510
8.5	2106.183	2072.583	2062.857	2069.047	2061.089
9.0	2101.762	2069.047	2059.320	2064.626	2056.668
9.5	2097.341	2064.626	2054.015	2059.320	2052.247
10.0	2092.920	2060.205	2049.594	2054.899	2046.941
10.5	2087.615	2054.899	2044.289	2049.594	2042.520
11.0	2083.194	2049.594	2038.984	2044.289	2036.331
11.5	2077.005	2044.289	2033.678	2038.984	2031.026
12.0	2071.699	2038.984	2028.373	2032.794	2024.836
12.5	2066.394	2032.794	2022.184	2026.605	2018.647
13.0	2060.205	2027.489	2015.994	2020.415	2012.457
13.5	2054.015	2020.415	2009.805	2013.342	2006.268
14.0	2047.826	2014.226	2002.731	2007.152	2000.078
14.5	2041.636	2008.036	1995.657	2000.078	1993.005
15.0	2035.447	2000.963	1988.584	1993.005	1985.931
15.5	2027.489	1994.773	1981.510	1985.047	1977.973
16.0	2018.647	1987.700	1973.552	1977.973	1970.900
16.5	2009.805	1979.742	1965.594	1970.015	1962.942
17.0	2001.847	1971.784	1957.636	1962.057	1954.984
17.5	1993.005	1962.942	1948.794	1953.215	1946.142
18.0	1984.163	1954.100	1939.952	1944.373	1937.300
18.5	1975.321	1945.258	1931.110	1934.647	1928.458
19.0	1966.479	1936.415	1923.152	1925.805	1917.847
19.5	1956.752	1927.573	1914.310	1915.194	1907.237
20.0	1947.910	1917.847	1906.352	1905.468	1896.626
20.5	1938.184	1909.005	1897.510	1894.858	1886.016
21.0	1928.458	1899.279	1887.784	1884.247	1874.521
21.5	1917.847	1889.552	1877.174	1873.637	1863.026
22.0	1908.121	1878.942	1865.679	1862.142	1852.416
22.5	1897.510	1868.331	1855.068	1850.647	1840.921
23.0	1886.900	1857.721	1844.458	1838.268	1829.426
23.5	1876.289	1847.110	1832.963	1826.774	1818.816
24.0	1864.795	1836.500	1822.353	1815.279	1807.321
24.5	1853.300	1825.005	1810.858	1803.784	1795.826
25.0	1842.689	1813.511	1799.363	1792.290	1784.332
25.5	1831.195	1802.016	1786.984	1780.795	1771.953
26.0	1818.816	1789.637	1775.490	1769.300	1760.458
26.5	1807.321	1778.142	1763.111	1757.805	1748.963

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1794.942	1765.763	1750.732	1746.311	1736.584
27.5	1782.563	1753.384	1739.237	1734.816	1725.090
28.0	1770.184	1740.121	1725.974	1722.437	1712.711
28.5	1756.921	1726.858	1713.595	1710.942	1700.332
29.0	1743.658	1714.479	1701.216	1698.563	1687.953
29.5	1731.279	1701.216	1688.837	1685.300	1676.458
30.0	1718.016	1687.953	1676.458	1672.921	1664.079
30.5	1704.753	1674.690	1663.195	1660.543	1651.700
31.0	1690.606	1662.311	1649.932	1647.279	1639.322
31.5	1677.343	1649.048	1636.669	1634.016	1626.058
32.0	1663.195	1634.901	1623.406	1619.869	1612.795
32.5	1649.048	1621.637	1610.143	1606.606	1598.648
33.0	1634.901	1608.374	1596.880	1593.343	1584.501
33.5	1621.637	1594.227	1582.732	1579.195	1571.238
34.0	1606.606	1580.080	1569.469	1565.048	1557.090
34.5	1592.459	1565.932	1554.438	1550.901	1542.059
35.0	1578.311	1552.669	1540.290	1536.753	1527.027
35.5	1563.280	1537.638	1526.143	1522.606	1511.996
36.0	1548.248	1523.490	1511.996	1507.575	1497.848
36.5	1534.101	1509.343	1497.848	1493.427	1483.701
37.0	1519.069	1494.311	1482.817	1478.396	1468.669
37.5	1504.038	1479.280	1468.669	1463.364	1454.522
38.0	1488.122	1464.248	1453.638	1448.333	1439.491
38.5	1473.090	1449.217	1438.606	1434.185	1424.459
39.0	1458.943	1434.185	1423.575	1419.154	1410.312
39.5	1443.027	1419.154	1409.427	1404.122	1394.396
40.0	1427.996	1403.238	1394.396	1389.091	1380.249
40.5	1412.080	1388.207	1379.364	1374.059	1365.217
41.0	1397.049	1372.291	1364.333	1358.143	1349.301
41.5	1381.133	1357.259	1348.417	1343.112	1333.386
42.0	1366.101	1341.343	1333.386	1328.080	1318.354
42.5	1351.070	1326.312	1318.354	1312.165	1303.323
43.0	1335.154	1311.280	1303.323	1297.133	1287.407
43.5	1320.122	1295.365	1287.407	1282.102	1272.375
44.0	1304.207	1279.449	1271.491	1266.186	1257.344
44.5	1288.291	1263.533	1255.575	1250.270	1241.428
45.0	1272.375	1248.502	1240.544	1234.354	1226.396
45.5	1257.344	1232.586	1224.628	1219.323	1211.365
46.0	1241.428	1216.670	1208.712	1203.407	1196.333
46.5	1225.512	1200.754	1193.681	1188.376	1181.302
47.0	1209.596	1184.839	1177.765	1172.460	1165.386
47.5	1192.797	1168.923	1161.849	1156.544	1150.355
48.0	1176.881	1153.007	1145.934	1141.512	1134.439
48.5	1160.965	1137.091	1130.902	1125.597	1118.523
49.0	1144.165	1121.176	1114.986	1109.681	1103.492
49.5	1128.249	1105.260	1099.070	1094.649	1088.460
50.0	1111.449	1089.344	1083.155	1078.734	1072.544
50.5	1094.649	1073.428	1067.239	1062.818	1057.513
51.0	1077.850	1057.513	1051.323	1046.902	1041.597
51.5	1061.934	1041.597	1035.408	1031.871	1025.681
52.0	1046.018	1025.681	1019.492	1015.955	1010.650
52.5	1029.218	1009.765	1003.576	1000.923	994.734
53.0	1013.302	993.850	987.660	985.008	978.818
53.5	996.502	977.934	971.745	969.092	962.902
54.0	980.587	962.018	956.713	954.060	946.987
54.5	964.671	946.987	940.797	938.145	931.071

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55.0	948.755	931.955	925.766	923.113	916.039
55.5	933.724	916.039	909.850	907.197	901.008
56.0	916.924	900.124	893.934	892.166	885.092
56.5	901.008	885.092	878.461	876.515	869.530
57.0	885.976	869.176	862.810	860.688	854.057
57.5	870.414	853.791	847.248	845.303	838.406
58.0	854.852	838.583	831.598	829.829	822.932
58.5	839.202	823.286	816.212	814.621	808.078
59.0	823.817	807.901	800.739	799.236	792.958
59.5	808.873	792.339	785.000	783.939	778.015
60.0	793.577	776.865	769.438	768.554	762.806
60.5	778.457	761.745	754.406	753.080	747.421
61.0	763.602	746.625	739.463	737.960	732.389
61.5	747.686	731.682	724.608	722.928	717.535
62.0	732.036	716.297	709.223	707.985	702.326
62.5	716.032	702.061	694.722	693.750	687.914
63.0	700.646	689.505	683.581	683.139	678.364
63.5	685.084	675.800	671.114	670.141	665.190
64.0	675.712	662.449	658.204	656.259	650.600
64.5	661.122	648.213	643.615	641.847	636.541
65.0	644.764	633.005	629.202	627.522	622.394
65.5	628.053	617.619	614.171	613.375	608.158
66.0	611.960	602.588	599.493	599.139	593.569
66.5	596.045	587.202	584.550	584.550	579.598
67.0	580.306	571.906	569.784	570.049	565.539
67.5	564.832	556.874	554.929	555.459	551.038
68.0	549.182	541.843	540.074	540.782	536.184
68.5	533.443	526.546	525.131	526.104	521.594
69.0	517.173	511.161	510.100	510.630	506.474
69.5	501.346	496.041	494.803	495.422	491.620
70.0	485.695	480.744	479.860	480.125	476.765
70.5	470.310	465.359	464.740	465.005	461.822
71.0	454.571	450.062	449.885	450.239	446.790
71.5	438.832	434.765	435.119	435.384	432.378
72.0	423.536	419.380	420.087	420.441	417.877
72.5	408.239	404.260	405.409	405.763	403.641
73.0	393.119	389.494	391.085	391.527	389.670
73.5	378.441	374.904	376.761	377.557	375.523
74.0	363.940	360.315	362.614	363.233	361.906
74.5	349.439	345.991	348.555	349.174	348.201
75.0	334.850	331.755	334.673	335.292	334.496
75.5	320.437	317.519	320.879	321.675	320.791
76.0	305.848	303.814	307.262	308.147	307.439
76.5	292.054	290.285	293.734	294.707	294.088
77.0	278.614	276.669	280.471	281.355	280.382
77.5	264.732	263.406	267.208	267.915	266.942
78.0	251.203	250.142	253.945	255.006	254.033
78.5	237.764	237.233	240.858	242.096	241.300
79.0	224.854	224.324	228.037	229.540	228.921
79.5	211.945	211.679	215.393	216.985	216.454
80.0	199.212	199.300	202.749	204.959	204.252
80.5	186.391	187.187	190.724	192.846	192.315
81.0	174.101	175.338	178.787	180.997	180.644
81.5	162.252	163.578	167.115	169.326	169.061
82.0	151.200	152.084	155.709	158.008	157.743
82.5	140.147	140.943	144.480	146.779	146.602

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83.0	129.094	130.332	133.427	135.814	135.991
83.5	118.219	119.722	122.728	125.027	125.558
84.0	108.050	109.288	112.118	114.328	115.124
84.5	97.705	99.031	101.684	103.894	104.690
85.0	88.067	89.128	91.604	93.549	94.257
85.5	78.695	79.225	81.347	83.381	84.088
86.0	69.499	69.676	71.532	73.389	74.273
86.5	60.391	60.391	62.071	63.751	64.547
87.0	51.196	51.196	52.434	54.556	55.175
87.5	42.088	42.177	43.326	45.448	46.244
88.0	33.423	33.335	34.484	36.783	37.667
88.5	25.111	24.581	26.084	28.118	29.356
89.0	16.269	16.004	18.038	19.983	21.309
89.5	7.516	8.930	10.787	12.291	12.733
90.0	0.000	0.000	0.000	0.000	0.000
90.5	5.424	2.859	2.639	2.565	2.785
91.0	11.948	6.304	5.131	5.058	4.984
91.5	19.204	12.827	7.623	7.550	7.476
92.0	26.534	21.330	10.995	9.822	9.822
92.5	34.157	30.125	17.005	12.314	12.094
93.0	42.073	38.555	24.042	16.345	14.733
93.5	50.062	46.617	31.591	22.063	19.204
94.0	57.905	54.534	39.947	28.879	25.288
94.5	65.968	62.450	48.670	35.916	31.885
95.0	73.884	70.586	57.246	43.099	38.408
95.5	81.800	78.209	65.601	50.502	45.298
96.0	89.350	85.978	73.811	58.198	52.335
96.5	96.973	93.748	82.020	66.041	59.591
97.0	104.376	101.371	90.156	73.884	67.287
97.5	111.999	109.067	98.366	81.874	74.984
98.0	119.549	116.617	106.355	89.790	82.753
98.5	127.098	124.240	114.051	97.852	90.523
99.0	134.795	132.083	121.894	105.549	98.366
99.5	142.564	139.852	129.810	113.245	106.062
100.0	150.187	147.695	137.726	121.161	113.612
100.5	158.103	155.538	145.643	129.371	121.234
101.0	166.239	163.381	153.705	137.653	129.517
101.5	174.522	171.370	161.915	145.936	138.093
102.0	182.585	179.653	170.124	154.218	146.595
102.5	191.014	187.862	178.627	162.501	155.025
103.0	199.663	196.365	187.056	170.710	163.601
103.5	208.312	205.014	195.998	179.506	172.103
104.0	217.181	213.736	205.087	188.595	180.972
104.5	226.343	222.825	214.176	197.904	189.841
105.0	235.726	232.134	223.192	207.066	198.857
105.5	245.328	241.589	232.500	216.302	207.799
106.0	255.076	251.118	241.956	225.684	216.741
106.5	264.898	260.940	251.851	235.139	225.757
107.0	275.380	271.202	262.406	245.181	235.579
107.5	286.228	281.757	273.107	255.809	246.207
108.0	297.002	292.605	284.029	267.317	257.128
108.5	308.364	303.673	294.950	278.825	268.416
109.0	320.018	314.960	306.165	290.479	279.851
109.5	331.965	326.688	317.966	302.060	291.432
110.0	344.719	338.709	330.060	313.934	303.526
110.5	357.766	351.023	342.447	326.688	316.060

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111.0	370.960	363.923	355.274	339.955	328.667
111.5	384.447	377.190	368.321	353.442	341.641
112.0	398.447	390.824	381.295	366.929	354.028
112.5	412.520	404.823	394.415	380.342	367.148
113.0	427.253	419.263	408.268	394.195	380.855
113.5	442.425	434.362	422.928	409.148	395.588
114.0	457.818	449.755	438.467	425.054	411.933
114.5	473.723	465.661	454.299	441.619	429.305
115.0	489.849	482.006	470.718	458.331	446.896
115.5	506.707	498.498	487.577	474.969	464.268
116.0	523.712	515.650	505.021	492.488	481.933
116.5	541.670	533.241	523.053	510.446	500.770
117.0	560.361	551.199	541.231	529.796	520.194
117.5	574.141	565.199	557.869	547.607	539.911
118.0	591.733	581.544	574.948	566.005	557.429
118.5	612.183	601.042	592.392	583.084	573.188
119.0	632.193	620.246	612.183	602.434	590.707
119.5	652.423	640.696	633.146	622.078	610.350
120.0	673.313	661.879	654.182	643.554	631.094
120.5	694.056	683.355	675.879	666.350	653.230
121.0	715.826	705.271	697.721	689.072	676.758
121.5	737.375	726.967	719.491	712.088	699.774
122.0	760.098	749.103	742.506	735.176	722.862
122.5	782.087	771.092	765.228	757.899	744.705
123.0	804.809	794.548	788.684	782.820	768.893
123.5	828.265	818.003	813.605	807.741	793.815
124.0	851.720	842.191	837.793	832.662	819.469
124.5	875.175	865.646	861.982	856.851	844.390
125.0	898.630	889.102	885.437	881.039	868.578
125.5	922.819	913.290	909.625	905.227	892.034
126.0	946.274	936.745	934.546	929.415	915.489
126.5	969.729	960.200	959.468	955.070	940.410
127.0	993.917	984.389	984.389	980.724	966.797
127.5	1018.106	1007.844	1007.844	1005.645	993.184
128.0	1041.561	1031.299	1032.032	1030.566	1018.106
128.5	1065.016	1054.022	1055.488	1055.488	1042.294
129.0	1088.472	1076.744	1078.943	1079.676	1067.215
129.5	1111.927	1100.199	1103.131	1104.597	1092.869
130.0	1135.382	1123.654	1127.319	1129.518	1119.990
130.5	1158.837	1146.377	1152.241	1153.707	1145.644
131.0	1182.293	1169.099	1175.696	1177.162	1169.099
131.5	1204.282	1191.088	1199.151	1199.151	1191.821
132.0	1227.004	1213.078	1221.873	1222.606	1213.811
132.5	1248.994	1235.800	1244.596	1245.329	1235.800
133.0	1270.983	1258.522	1266.585	1268.051	1257.056
133.5	1292.972	1280.512	1289.307	1290.773	1279.779
134.0	1314.962	1301.768	1310.564	1312.763	1301.768
134.5	1334.752	1323.024	1331.087	1332.553	1323.024
135.0	1354.542	1343.548	1350.877	1352.343	1342.082
135.5	1373.600	1364.804	1370.668	1371.401	1361.139
136.0	1392.657	1384.594	1388.992	1391.191	1380.930
136.5	1412.448	1403.652	1407.317	1410.982	1401.453
137.0	1430.772	1422.709	1426.374	1429.306	1420.510
137.5	1449.096	1440.301	1443.966	1446.165	1437.369
138.0	1466.688	1457.892	1460.824	1462.290	1453.494
138.5	1484.279	1474.751	1477.683	1478.416	1468.887

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1501.138	1491.609	1494.541	1494.541	1484.279
139.5	1517.996	1508.468	1510.667	1509.934	1498.939
140.0	1534.122	1523.860	1526.792	1526.059	1515.064
140.5	1549.514	1538.520	1541.452	1540.719	1528.991
141.0	1564.907	1553.912	1556.111	1554.645	1542.918
141.5	1578.833	1567.839	1570.771	1568.572	1555.378
142.0	1593.493	1582.498	1584.697	1581.765	1568.572
142.5	1607.420	1596.425	1598.624	1595.692	1581.032
143.0	1621.346	1609.619	1611.817	1608.886	1594.226
143.5	1634.540	1623.545	1625.011	1622.079	1606.687
144.0	1647.000	1636.739	1637.472	1633.807	1618.414
144.5	1659.461	1649.199	1649.932	1645.534	1630.142
145.0	1671.189	1661.660	1661.660	1656.529	1641.137
145.5	1683.649	1674.121	1673.388	1668.990	1652.864
146.0	1695.377	1685.848	1685.115	1679.984	1664.592
146.5	1707.105	1697.576	1696.110	1691.712	1676.319
147.0	1718.099	1709.303	1706.372	1703.440	1688.047
147.5	1729.094	1720.298	1717.366	1714.434	1699.042
148.0	1740.089	1731.293	1726.895	1724.696	1710.769
148.5	1751.083	1742.287	1736.424	1734.958	1722.497
149.0	1761.345	1753.282	1745.952	1745.219	1734.225
149.5	1771.607	1763.544	1754.748	1755.481	1745.219
150.0	1781.868	1773.805	1764.277	1765.010	1755.481
150.5	1792.130	1784.067	1773.072	1773.805	1765.743
151.0	1801.659	1793.596	1781.868	1782.601	1775.271
151.5	1811.920	1803.125	1791.397	1791.397	1784.067
152.0	1821.449	1812.653	1800.193	1799.460	1792.863
152.5	1830.978	1821.449	1808.988	1808.255	1800.926
153.0	1840.506	1830.245	1817.784	1817.051	1808.255
153.5	1849.302	1839.040	1826.580	1825.847	1814.852
154.0	1858.098	1847.836	1836.109	1834.643	1822.182
154.5	1867.627	1855.899	1844.904	1842.705	1829.512
155.0	1876.422	1863.962	1853.700	1851.501	1837.575
155.5	1884.485	1871.291	1862.496	1860.297	1845.637
156.0	1892.548	1879.354	1872.024	1868.360	1853.700
156.5	1900.611	1887.417	1880.820	1877.155	1861.763
157.0	1908.673	1895.480	1889.616	1885.951	1869.826
157.5	1916.003	1902.810	1897.679	1894.014	1877.888
158.0	1923.333	1910.139	1905.741	1902.077	1885.951
158.5	1931.396	1918.202	1913.804	1910.139	1894.747
159.0	1937.992	1925.532	1921.134	1918.202	1902.810
159.5	1945.322	1932.862	1928.464	1926.265	1910.872
160.0	1951.919	1939.458	1935.793	1933.595	1918.935
160.5	1958.516	1946.055	1942.390	1940.924	1926.998
161.0	1965.113	1952.652	1948.987	1948.254	1935.061
161.5	1971.709	1959.982	1954.851	1955.584	1943.123
162.0	1979.039	1966.579	1960.715	1962.914	1950.453
162.5	1985.636	1973.175	1966.579	1969.510	1957.050
163.0	1992.233	1979.772	1972.442	1976.107	1963.647
163.5	1998.830	1985.636	1978.306	1982.704	1969.510
164.0	2005.426	1991.500	1983.437	1988.568	1975.374
164.5	2010.557	1997.364	1988.568	1994.432	1981.238
165.0	2016.421	2003.227	1993.699	2000.296	1986.369
165.5	2022.285	2008.358	1998.830	2005.426	1991.500
166.0	2028.149	2013.489	2003.960	2010.557	1995.898
166.5	2034.012	2018.620	2009.091	2014.955	2001.028

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	2039.143	2023.018	2013.489	2019.353	2005.426
167.5	2044.274	2027.416	2018.620	2023.751	2010.557
168.0	2049.405	2031.814	2023.018	2028.149	2014.955
168.5	2054.536	2036.211	2027.416	2032.547	2020.086
169.0	2058.934	2039.876	2031.814	2036.211	2024.484
169.5	2062.599	2043.541	2035.478	2039.876	2028.882
170.0	2066.263	2047.206	2039.143	2043.541	2034.012
170.5	2069.928	2050.871	2042.075	2047.206	2037.677
171.0	2073.593	2053.803	2045.007	2050.871	2041.342
171.5	2076.525	2056.735	2047.939	2054.536	2045.007
172.0	2079.457	2059.667	2050.138	2057.468	2047.939
172.5	2082.389	2062.599	2052.337	2059.667	2050.138
173.0	2085.321	2065.531	2054.536	2062.599	2051.604
173.5	2087.520	2067.729	2056.735	2064.065	2053.070
174.0	2089.719	2069.928	2058.934	2065.531	2053.803
174.5	2091.185	2071.394	2060.400	2066.996	2054.536
175.0	2092.651	2073.593	2061.866	2067.729	2054.536
175.5	2094.117	2075.059	2064.065	2068.462	2055.269
176.0	2095.583	2076.525	2065.531	2068.462	2055.269
176.5	2096.316	2077.991	2066.263	2069.195	2055.269
177.0	2097.049	2079.457	2067.729	2069.195	2054.536
177.5	2098.514	2080.923	2069.195	2069.195	2054.536
178.0	2099.247	2080.923	2069.928	2069.195	2055.269
178.5	2099.247	2081.656	2070.661	2069.195	2055.269
179.0	2099.980	2082.389	2070.661	2069.195	2055.269
179.5	2100.713	2082.389	2071.394	2069.195	2055.269
180.0	2075.059	2075.059	2075.059	2075.059	2075.059

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	761.83	N.A.	7.10
0-30	1592.72	N.A.	14.90
0-40	2558.72	N.A.	24.00
0-60	4347.85	N.A.	40.70
0-80	5324.43	N.A.	49.90
0-90	5427.61	N.A.	50.80
10-90	5228.76	N.A.	49.00
20-40	1796.9	N.A.	16.80
20-50	2755.85	N.A.	25.80
40-70	2410.9	N.A.	22.60
60-80	976.58	N.A.	9.10
70-80	354.80	N.A.	3.30
80-90	103.19	N.A.	1.00
90-110	300.30	N.A.	2.80
90-120	770.89	N.A.	7.20
90-130	1561.7	N.A.	14.60
90-150	3632.39	N.A.	34.00
90-180	5249.76	N.A.	49.20
110-180	4949.46	N.A.	46.40
0-180	10677.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.85
10-20	562.97
20-30	830.89
30-40	966.01
40-50	958.96
50-60	830.17
60-70	621.78
70-80	354.80
80-90	103.19
90-100	64.77
100-110	235.53
110-120	470.59
120-130	790.81
130-140	1034.05
140-150	1036.64
150-160	856.31
160-170	564.28
170-180	196.78

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-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-L12-827U-L15-827D-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	UGR Viewed Endwise	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

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

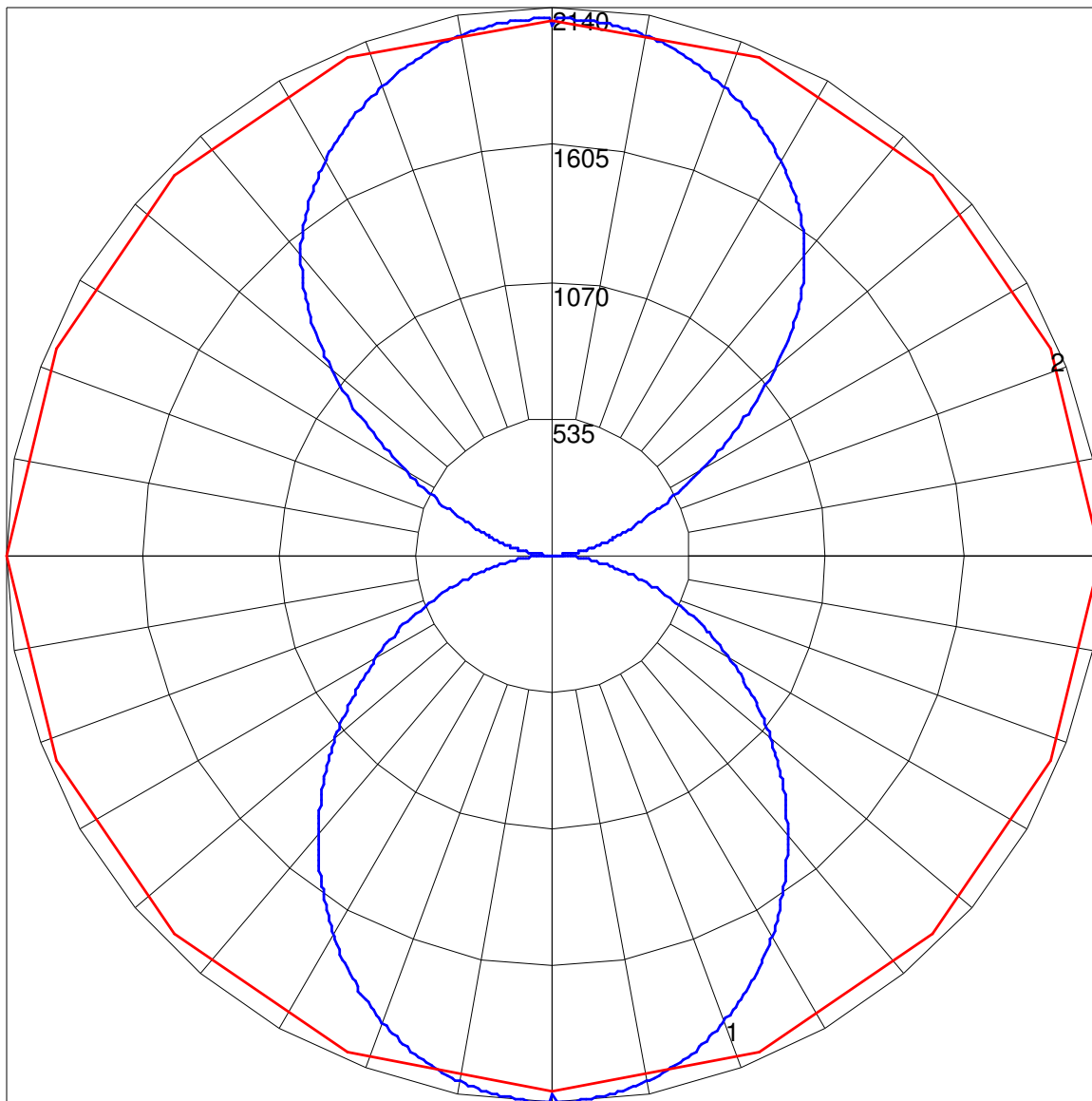
12H	4H	20.6	21.0	21.6	22.1	23.4		20.6	21.0	21.6	22.0	23.4
	6H	21.4	21.7	22.4	22.7	24.1		21.3	21.7	22.4	22.7	24.1
	8H	21.6	21.9	22.7	23.0	24.4		21.7	22.0	22.7	23.0	24.4

Maximum UGR = 24.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L15-827D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2139.783 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.)