

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-827U-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-L15-827U-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	11860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	15937	15538	15361
55	14650	14295	14145
65	13512	13186	13043
75	11459	11453	11446
85	8949	9309	9578

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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	2312.480	2312.480	2312.480	2312.480	2312.480
0.5	2347.400	2314.420	2302.780	2307.630	2299.870
1.0	2347.400	2313.450	2302.780	2307.630	2299.870
1.5	2346.430	2312.480	2301.810	2307.630	2298.900
2.0	2345.460	2311.510	2300.840	2306.660	2298.900
2.5	2344.490	2310.540	2298.900	2305.690	2297.930
3.0	2342.550	2308.600	2297.930	2304.720	2295.990
3.5	2340.610	2306.660	2295.990	2302.780	2294.050
4.0	2338.670	2304.720	2294.050	2300.840	2292.110
4.5	2336.730	2301.810	2292.110	2298.900	2289.200
5.0	2334.790	2299.870	2289.200	2295.990	2286.290
5.5	2331.880	2296.960	2286.290	2293.080	2283.380
6.0	2328.970	2293.080	2283.380	2290.170	2279.500
6.5	2325.090	2290.170	2279.500	2286.290	2276.590
7.0	2322.180	2286.290	2276.590	2282.410	2272.710
7.5	2319.270	2282.410	2272.710	2278.530	2269.800
8.0	2314.420	2278.530	2267.860	2274.650	2265.920
8.5	2310.540	2273.680	2263.010	2269.800	2261.070
9.0	2305.690	2269.800	2259.130	2264.950	2256.220
9.5	2300.840	2264.950	2253.310	2259.130	2251.370
10.0	2295.990	2260.100	2248.460	2254.280	2245.550
10.5	2290.170	2254.280	2242.640	2248.460	2240.700
11.0	2285.320	2248.460	2236.820	2242.640	2233.910
11.5	2278.530	2242.640	2231.000	2236.820	2228.090
12.0	2272.710	2236.820	2225.180	2230.030	2221.300
12.5	2266.890	2230.030	2218.390	2223.240	2214.510
13.0	2260.100	2224.210	2211.600	2216.450	2207.720
13.5	2253.310	2216.450	2204.810	2208.690	2200.930
14.0	2246.520	2209.660	2197.050	2201.900	2194.140
14.5	2239.730	2202.870	2189.290	2194.140	2186.380
15.0	2232.940	2195.110	2181.530	2186.380	2178.620
15.5	2224.210	2188.320	2173.770	2177.650	2169.890
16.0	2214.510	2180.560	2165.040	2169.890	2162.130
16.5	2204.810	2171.830	2156.310	2161.160	2153.400
17.0	2196.080	2163.100	2147.580	2152.430	2144.670
17.5	2186.380	2153.400	2137.880	2142.730	2134.970
18.0	2176.680	2143.700	2128.180	2133.030	2125.270
18.5	2166.980	2134.000	2118.480	2122.360	2115.570
19.0	2157.280	2124.300	2109.750	2112.660	2103.930
19.5	2146.610	2114.600	2100.050	2101.020	2092.290
20.0	2136.910	2103.930	2091.320	2090.350	2080.650
20.5	2126.240	2094.230	2081.620	2078.710	2069.010
21.0	2115.570	2083.560	2070.950	2067.070	2056.400
21.5	2103.930	2072.890	2059.310	2055.430	2043.790
22.0	2093.260	2061.250	2046.700	2042.820	2032.150
22.5	2081.620	2049.610	2035.060	2030.210	2019.540
23.0	2069.980	2037.970	2023.420	2016.630	2006.930
23.5	2058.340	2026.330	2010.810	2004.020	1995.290
24.0	2045.730	2014.690	1999.170	1991.410	1982.680
24.5	2033.120	2002.080	1986.560	1978.800	1970.070
25.0	2021.480	1989.470	1973.950	1966.190	1957.460
25.5	2008.870	1976.860	1960.370	1953.580	1943.880
26.0	1995.290	1963.280	1947.760	1940.970	1931.270
26.5	1982.680	1950.670	1934.180	1928.360	1918.660

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27.0	1969.100	1937.090	1920.600	1915.750	1905.080
27.5	1955.520	1923.510	1907.990	1903.140	1892.470
28.0	1941.940	1908.960	1893.440	1889.560	1878.890
28.5	1927.390	1894.410	1879.860	1876.950	1865.310
29.0	1912.840	1880.830	1866.280	1863.370	1851.730
29.5	1899.260	1866.280	1852.700	1848.820	1839.120
30.0	1884.710	1851.730	1839.120	1835.240	1825.540
30.5	1870.160	1837.180	1824.570	1821.660	1811.960
31.0	1854.640	1823.600	1810.020	1807.110	1798.380
31.5	1840.090	1809.050	1795.470	1792.560	1783.830
32.0	1824.570	1793.530	1780.920	1777.040	1769.280
32.5	1809.050	1778.980	1766.370	1762.490	1753.760
33.0	1793.530	1764.430	1751.820	1747.940	1738.240
33.5	1778.980	1748.910	1736.300	1732.420	1723.690
34.0	1762.490	1733.390	1721.750	1716.900	1708.170
34.5	1746.970	1717.870	1705.260	1701.380	1691.680
35.0	1731.450	1703.320	1689.740	1685.860	1675.190
35.5	1714.960	1686.830	1674.220	1670.340	1658.700
36.0	1698.470	1671.310	1658.700	1653.850	1643.180
36.5	1682.950	1655.790	1643.180	1638.330	1627.660
37.0	1666.460	1639.300	1626.690	1621.840	1611.170
37.5	1649.970	1622.810	1611.170	1605.350	1595.650
38.0	1632.510	1606.320	1594.680	1588.860	1579.160
38.5	1616.020	1589.830	1578.190	1573.340	1562.670
39.0	1600.500	1573.340	1561.700	1556.850	1547.150
39.5	1583.040	1556.850	1546.180	1540.360	1529.690
40.0	1566.550	1539.390	1529.690	1523.870	1514.170
40.5	1549.090	1522.900	1513.200	1507.380	1497.680
41.0	1532.600	1505.440	1496.710	1489.920	1480.220
41.5	1515.140	1488.950	1479.250	1473.430	1462.760
42.0	1498.650	1471.490	1462.760	1456.940	1446.270
42.5	1482.160	1455.000	1446.270	1439.480	1429.780
43.0	1464.700	1438.510	1429.780	1422.990	1412.320
43.5	1448.210	1421.050	1412.320	1406.500	1395.830
44.0	1430.750	1403.590	1394.860	1389.040	1379.340
44.5	1413.290	1386.130	1377.400	1371.580	1361.880
45.0	1395.830	1369.640	1360.910	1354.120	1345.390
45.5	1379.340	1352.180	1343.450	1337.630	1328.900
46.0	1361.880	1334.720	1325.990	1320.170	1312.410
46.5	1344.420	1317.260	1309.500	1303.680	1295.920
47.0	1326.960	1299.800	1292.040	1286.220	1278.460
47.5	1308.530	1282.340	1274.580	1268.760	1261.970
48.0	1291.070	1264.880	1257.120	1252.270	1244.510
48.5	1273.610	1247.420	1240.630	1234.810	1227.050
49.0	1255.180	1229.960	1223.170	1217.350	1210.560
49.5	1237.720	1212.500	1205.710	1200.860	1194.070
50.0	1219.290	1195.040	1188.250	1183.400	1176.610
50.5	1200.860	1177.580	1170.790	1165.940	1160.120
51.0	1182.430	1160.120	1153.330	1148.480	1142.660
51.5	1164.970	1142.660	1135.870	1131.990	1125.200
52.0	1147.510	1125.200	1118.410	1114.530	1108.710
52.5	1129.080	1107.740	1100.950	1098.040	1091.250
53.0	1111.620	1090.280	1083.490	1080.580	1073.790
53.5	1093.190	1072.820	1066.030	1063.120	1056.330
54.0	1075.730	1055.360	1049.540	1046.630	1038.870
54.5	1058.270	1038.870	1032.080	1029.170	1021.410

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55.0	1040.810	1022.380	1015.590	1012.680	1004.920
55.5	1024.320	1004.920	998.130	995.220	988.430
56.0	1005.890	987.460	980.670	978.730	970.970
56.5	988.430	970.970	963.695	961.561	953.898
57.0	971.940	953.510	946.526	944.198	936.923
57.5	954.868	936.632	929.454	927.320	919.754
58.0	937.796	919.948	912.285	910.345	902.779
58.5	920.627	903.167	895.407	893.661	886.483
59.0	903.749	886.289	878.432	876.783	869.896
59.5	887.356	869.217	861.166	860.002	853.503
60.0	870.575	852.242	844.094	843.124	836.819
60.5	853.988	835.655	827.604	826.149	819.941
61.0	837.692	819.068	811.211	809.562	803.451
61.5	820.232	802.675	794.915	793.072	787.155
62.0	803.063	785.797	778.037	776.679	770.471
62.5	785.506	770.180	762.129	761.062	754.660
63.0	768.628	756.406	749.907	749.422	744.184
63.5	751.556	741.371	736.230	735.163	729.731
64.0	741.274	726.724	722.068	719.934	713.726
64.5	725.269	711.107	706.063	704.123	698.303
65.0	707.324	694.423	690.252	688.409	682.783
65.5	688.991	677.545	673.762	672.889	667.166
66.0	671.337	661.055	657.660	657.272	651.161
66.5	653.877	644.177	641.267	641.267	635.835
67.0	636.611	627.396	625.068	625.359	620.412
67.5	619.636	610.906	608.772	609.354	604.504
68.0	602.467	594.416	592.476	593.252	588.208
68.5	585.201	577.635	576.083	577.150	572.203
69.0	567.353	560.757	559.593	560.175	555.616
69.5	549.990	544.170	542.812	543.491	539.320
70.0	532.821	527.389	526.419	526.710	523.024
70.5	515.943	510.511	509.832	510.123	506.631
71.0	498.677	493.730	493.536	493.924	490.141
71.5	481.411	476.949	477.337	477.628	474.330
72.0	464.630	460.071	460.847	461.235	458.422
72.5	447.849	443.484	444.745	445.133	442.805
73.0	431.262	427.285	429.031	429.516	427.479
73.5	415.160	411.280	413.317	414.190	411.959
74.0	399.252	395.275	397.797	398.476	397.021
74.5	383.344	379.561	382.374	383.053	381.986
75.0	367.339	363.944	367.145	367.824	366.951
75.5	351.528	348.327	352.013	352.886	351.916
76.0	335.523	333.292	337.075	338.045	337.269
76.5	320.391	318.451	322.234	323.301	322.622
77.0	305.647	303.513	307.684	308.654	307.587
77.5	290.418	288.963	293.134	293.910	292.843
78.0	275.577	274.413	278.584	279.748	278.681
78.5	260.833	260.251	264.228	265.586	264.713
79.0	246.671	246.089	250.163	251.812	251.133
79.5	232.509	232.218	236.292	238.038	237.456
80.0	218.541	218.638	222.421	224.846	224.070
80.5	204.476	205.349	209.229	211.557	210.975
81.0	190.993	192.351	196.134	198.559	198.171
81.5	177.995	179.450	183.330	185.755	185.464
82.0	165.870	166.840	170.817	173.339	173.048
82.5	153.745	154.618	158.498	161.020	160.826

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83.0	141.620	142.978	146.373	148.992	149.186
83.5	129.689	131.338	134.636	137.158	137.740
84.0	118.534	119.892	122.996	125.421	126.294
84.5	107.185	108.640	111.550	113.975	114.848
85.0	96.612	97.776	100.492	102.626	103.402
85.5	86.330	86.912	89.240	91.471	92.247
86.0	76.242	76.436	78.473	80.510	81.480
86.5	66.251	66.251	68.094	69.937	70.810
87.0	56.163	56.163	57.521	59.849	60.528
87.5	46.172	46.269	47.530	49.858	50.731
88.0	36.666	36.569	37.830	40.352	41.322
88.5	27.548	26.966	28.615	30.846	32.204
89.0	17.848	17.557	19.788	21.922	23.377
89.5	8.245	9.797	11.834	13.483	13.968
90.0	0.000	0.000	0.000	0.000	0.000
90.5	6.101	3.216	2.968	2.886	3.133
91.0	13.439	7.091	5.772	5.689	5.607
91.5	21.602	14.429	8.575	8.492	8.410
92.0	29.847	23.993	12.368	11.048	11.048
92.5	38.422	33.887	19.128	13.852	13.604
93.0	47.326	43.369	27.044	18.386	16.572
93.5	56.313	52.438	35.536	24.817	21.602
94.0	65.136	61.343	44.935	32.485	28.445
94.5	74.205	70.247	54.747	40.401	35.866
95.0	83.110	79.399	64.393	48.481	43.204
95.5	92.014	87.974	73.793	56.808	50.954
96.0	100.507	96.714	83.027	65.465	58.869
96.5	109.081	105.454	92.262	74.287	67.032
97.0	117.409	114.028	101.414	83.110	75.689
97.5	125.984	122.686	110.648	92.097	84.346
98.0	134.476	131.178	119.635	101.001	93.086
98.5	142.968	139.753	128.292	110.071	101.826
99.0	151.626	148.575	137.114	118.728	110.648
99.5	160.365	157.315	146.019	127.385	119.305
100.0	168.940	166.137	154.924	136.290	127.798
100.5	177.845	174.959	163.828	145.524	136.372
101.0	186.997	183.781	172.898	154.841	145.689
101.5	196.313	192.768	182.132	164.158	155.336
102.0	205.383	202.085	191.366	173.475	164.900
102.5	214.865	211.319	200.931	182.792	174.382
103.0	224.594	220.884	210.412	192.026	184.028
103.5	234.323	230.613	220.471	201.920	193.593
104.0	244.299	240.424	230.695	212.144	203.569
104.5	254.606	250.648	240.919	222.615	213.546
105.0	265.159	261.119	251.060	232.921	223.687
105.5	275.960	271.755	261.531	243.310	233.746
106.0	286.926	282.474	272.167	253.864	243.805
106.5	297.974	293.522	283.298	264.500	253.946
107.0	309.765	305.065	295.171	275.795	264.994
107.5	321.967	316.938	307.209	287.751	276.950
108.0	334.087	329.140	319.494	300.695	289.235
108.5	346.867	341.590	331.779	313.640	301.932
109.0	359.977	354.288	344.394	326.749	314.794
109.5	373.416	367.480	357.668	339.776	327.821
110.0	387.762	381.001	371.272	353.133	341.425
110.5	402.438	394.853	385.206	367.480	355.524

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111.0	417.279	409.364	399.635	382.403	369.706
111.5	432.450	424.288	414.311	397.574	384.299
112.0	448.198	439.623	428.905	412.745	398.234
112.5	464.029	455.371	443.663	427.833	412.992
113.0	480.601	471.614	459.247	443.416	428.410
113.5	497.668	488.599	475.737	460.236	444.983
114.0	514.983	505.913	493.216	478.128	463.369
114.5	532.874	523.805	511.025	496.761	482.910
115.0	551.013	542.191	529.494	515.560	502.698
115.5	569.977	560.742	548.457	534.276	522.238
116.0	589.105	580.036	568.081	553.982	542.109
116.5	609.306	599.824	588.363	574.182	563.298
117.0	630.330	620.024	608.811	595.949	585.148
117.5	645.831	635.772	627.527	615.984	607.327
118.0	665.619	654.158	646.738	636.679	627.032
118.5	688.622	676.090	666.361	655.890	644.759
119.0	711.131	697.692	688.622	677.657	664.465
119.5	733.887	720.695	712.203	699.753	686.561
120.0	757.386	744.524	735.866	723.911	709.895
120.5	780.719	768.681	760.271	749.553	734.794
121.0	805.207	793.334	784.842	775.112	761.261
121.5	829.447	817.739	809.329	801.002	787.150
122.0	855.007	842.639	835.219	826.974	813.122
122.5	879.742	867.374	860.778	852.533	837.692
123.0	905.301	893.758	887.162	880.566	864.901
123.5	931.685	920.142	915.195	908.599	892.934
124.0	958.069	947.351	942.404	936.632	921.791
124.5	984.453	973.735	969.612	963.841	949.824
125.0	1010.837	1000.119	995.996	991.049	977.033
125.5	1038.046	1027.327	1023.205	1018.258	1003.417
126.0	1064.430	1053.711	1051.238	1045.466	1029.801
126.5	1090.814	1080.095	1079.271	1074.324	1057.834
127.0	1118.022	1107.304	1107.304	1103.181	1087.516
127.5	1145.231	1133.688	1133.688	1131.214	1117.198
128.0	1171.615	1160.072	1160.896	1159.247	1145.231
128.5	1197.999	1185.631	1187.280	1187.280	1172.439
129.0	1224.383	1211.191	1213.664	1214.489	1200.472
129.5	1250.767	1237.575	1240.873	1242.522	1229.330
130.0	1277.151	1263.959	1268.081	1270.555	1259.836
130.5	1303.535	1289.518	1296.114	1297.763	1288.694
131.0	1329.919	1315.078	1322.498	1324.147	1315.078
131.5	1354.654	1339.813	1348.882	1348.882	1340.637
132.0	1380.213	1364.548	1374.442	1375.266	1365.372
132.5	1404.948	1390.107	1400.001	1400.826	1390.107
133.0	1429.683	1415.667	1424.736	1426.385	1414.018
133.5	1454.418	1440.402	1450.296	1451.945	1439.577
134.0	1479.153	1464.312	1474.206	1476.680	1464.312
134.5	1501.415	1488.223	1497.292	1498.941	1488.223
135.0	1523.676	1511.309	1519.554	1521.203	1509.660
135.5	1545.113	1535.219	1541.815	1542.640	1531.097
136.0	1566.550	1557.481	1562.428	1564.901	1553.358
136.5	1588.812	1578.918	1583.040	1587.163	1576.444
137.0	1609.424	1600.355	1604.477	1607.775	1597.881
137.5	1630.037	1620.143	1624.265	1626.739	1616.845
138.0	1649.825	1639.931	1643.229	1644.878	1634.984
138.5	1669.613	1658.894	1662.192	1663.017	1652.298

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

139.0	1688.576	1677.858	1681.156	1681.156	1669.613
139.5	1707.540	1696.821	1699.295	1698.470	1686.103
140.0	1725.679	1714.136	1717.434	1716.609	1704.242
140.5	1742.993	1730.626	1733.924	1733.099	1719.907
141.0	1760.308	1747.940	1750.414	1748.765	1735.573
141.5	1775.973	1763.606	1766.904	1764.430	1749.589
142.0	1792.463	1780.096	1782.569	1779.271	1764.430
142.5	1808.129	1795.761	1798.235	1794.937	1778.447
143.0	1823.794	1810.602	1813.076	1809.778	1793.288
143.5	1838.635	1826.268	1827.917	1824.619	1807.304
144.0	1852.652	1841.109	1841.933	1837.811	1820.496
144.5	1866.668	1855.125	1855.950	1851.003	1833.688
145.0	1879.860	1869.142	1869.142	1863.370	1846.056
145.5	1893.877	1883.158	1882.334	1877.387	1859.248
146.0	1907.069	1896.350	1895.526	1889.754	1872.440
146.5	1920.261	1909.542	1907.893	1902.946	1885.632
147.0	1932.628	1922.734	1919.436	1916.138	1898.824
147.5	1944.996	1935.102	1931.804	1928.506	1911.191
148.0	1957.363	1947.469	1942.522	1940.049	1924.383
148.5	1969.731	1959.837	1953.241	1951.592	1937.575
149.0	1981.274	1972.204	1963.959	1963.135	1950.767
149.5	1992.817	1983.747	1973.853	1974.678	1963.135
150.0	2004.360	1995.290	1984.572	1985.396	1974.678
150.5	2015.903	2006.833	1994.466	1995.290	1986.221
151.0	2026.621	2017.552	2004.360	2005.184	1996.939
151.5	2038.164	2028.270	2015.078	2015.078	2006.833
152.0	2048.883	2038.989	2024.972	2024.148	2016.727
152.5	2059.601	2048.883	2034.866	2034.042	2025.797
153.0	2070.320	2058.777	2044.760	2043.936	2034.042
153.5	2080.214	2068.671	2054.654	2053.830	2041.462
154.0	2090.108	2078.565	2065.373	2063.724	2049.707
154.5	2100.826	2087.634	2075.267	2072.793	2057.952
155.0	2110.720	2096.704	2085.161	2082.687	2067.022
155.5	2119.790	2104.949	2095.055	2092.581	2076.091
156.0	2128.859	2114.018	2105.773	2101.651	2085.161
156.5	2137.929	2123.088	2115.667	2111.545	2094.230
157.0	2146.998	2132.157	2125.561	2121.439	2103.300
157.5	2155.243	2140.402	2134.631	2130.508	2112.369
158.0	2163.488	2148.647	2143.700	2139.578	2121.439
158.5	2172.558	2157.717	2152.770	2148.647	2131.333
159.0	2179.978	2165.962	2161.015	2157.717	2140.402
159.5	2188.223	2174.207	2169.260	2166.786	2149.472
160.0	2195.644	2181.627	2177.505	2175.031	2158.541
160.5	2203.064	2189.048	2184.925	2183.276	2167.611
161.0	2210.485	2196.468	2192.346	2191.521	2176.680
161.5	2217.905	2204.713	2198.942	2199.766	2185.750
162.0	2226.150	2212.134	2205.538	2208.011	2193.995
162.5	2233.571	2219.554	2212.134	2215.432	2201.415
163.0	2240.991	2226.975	2218.730	2222.852	2208.836
163.5	2248.412	2233.571	2225.326	2230.273	2215.432
164.0	2255.832	2240.167	2231.097	2236.869	2222.028
164.5	2261.604	2246.763	2236.869	2243.465	2228.624
165.0	2268.200	2253.359	2242.640	2250.061	2234.395
165.5	2274.796	2259.130	2248.412	2255.832	2240.167
166.0	2281.392	2264.902	2254.183	2261.604	2245.114
166.5	2287.988	2270.673	2259.955	2266.551	2250.885

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

167.0	2293.759	2275.620	2264.902	2271.498	2255.832
167.5	2299.531	2280.567	2270.673	2276.445	2261.604
168.0	2305.302	2285.514	2275.620	2281.392	2266.551
168.5	2311.074	2290.461	2280.567	2286.339	2272.322
169.0	2316.021	2294.584	2285.514	2290.461	2277.269
169.5	2320.143	2298.706	2289.637	2294.584	2282.216
170.0	2324.266	2302.829	2293.759	2298.706	2287.988
170.5	2328.388	2306.951	2297.057	2302.829	2292.110
171.0	2332.511	2310.249	2300.355	2306.951	2296.233
171.5	2335.809	2313.547	2303.653	2311.074	2300.355
172.0	2339.107	2316.845	2306.127	2314.372	2303.653
172.5	2342.405	2320.143	2308.600	2316.845	2306.127
173.0	2345.703	2323.441	2311.074	2320.143	2307.776
173.5	2348.176	2325.915	2313.547	2321.792	2309.425
174.0	2350.650	2328.388	2316.021	2323.441	2310.249
174.5	2352.299	2330.037	2317.670	2325.090	2311.074
175.0	2353.948	2332.511	2319.319	2325.915	2311.074
175.5	2355.597	2334.160	2321.792	2326.739	2311.898
176.0	2357.246	2335.809	2323.441	2326.739	2311.898
176.5	2358.070	2337.458	2324.266	2327.564	2311.898
177.0	2358.895	2339.107	2325.915	2327.564	2311.074
177.5	2360.544	2340.756	2327.564	2327.564	2311.074
178.0	2361.368	2340.756	2328.388	2327.564	2311.898
178.5	2361.368	2341.580	2329.213	2327.564	2311.898
179.0	2362.193	2342.405	2329.213	2327.564	2311.898
179.5	2363.017	2342.405	2330.037	2327.564	2311.898
180.0	2334.160	2334.160	2334.160	2334.160	2334.160



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

Zone	Lumens	%Lamp	%Fixt
0-20	835.74	N.A.	7.00
0-30	1747.25	N.A.	14.70
0-40	2806.99	N.A.	23.70
0-60	4769.71	N.A.	40.20
0-80	5841.04	N.A.	49.30
0-90	5954.24	N.A.	50.20
10-90	5736.09	N.A.	48.40
20-40	1971.24	N.A.	16.60
20-50	3023.24	N.A.	25.50
40-70	2644.82	N.A.	22.30
60-80	1071.33	N.A.	9.00
70-80	389.23	N.A.	3.30
80-90	113.20	N.A.	1.00
90-110	337.79	N.A.	2.80
90-120	867.15	N.A.	7.30
90-130	1756.7	N.A.	14.80
90-150	4085.94	N.A.	34.50
90-180	5905.27	N.A.	49.80
110-180	5567.47	N.A.	46.90
0-180	11859.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.15
10-20	617.60
20-30	911.51
30-40	1059.73
40-50	1052.00
50-60	910.72
60-70	682.11
70-80	389.23
80-90	113.20
90-100	72.86
100-110	264.94
110-120	529.35
120-130	889.55
130-140	1163.17
140-150	1166.08
150-160	963.24
160-170	634.73
170-180	221.35

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-827U-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	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-L15-827U-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	17.4	18.3	18.4	19.3	20.5	17.3	18.2	18.3	19.2	20.4
	3H	19.2	20.0	20.2	20.9	22.2	19.1	19.9	20.1	20.9	22.1
	4H	19.8	20.5	20.8	21.5	22.8	19.7	20.5	20.7	21.4	22.7
	6H	20.2	20.9	21.2	21.9	23.2	20.2	20.9	21.2	21.9	23.2
	8H	20.4	21.0	21.4	22.0	23.3	20.3	21.0	21.3	22.0	23.3
	12H	20.4	21.1	21.4	22.1	23.4	20.4	21.0	21.4	22.0	23.4

### UGR Viewed Endwise

4H	2H	18.0	18.7	19.0	19.7	21.0	17.9	18.6	18.9	19.6	20.9
	3H	19.9	20.5	20.9	21.6	22.9	19.9	20.5	20.9	21.5	22.8
	4H	20.7	21.2	21.7	22.2	23.6	20.6	21.2	21.6	22.2	23.5
	6H	21.2	21.7	22.2	22.7	24.1	21.2	21.7	22.2	22.7	24.1
	8H	21.4	21.9	22.4	22.9	24.2	21.4	21.9	22.4	22.9	24.2
	12H	21.5	21.9	22.6	23.0	24.3	21.5	21.9	22.6	23.0	24.3

8H	4H	20.9	21.4	21.9	22.4	23.7	20.9	21.3	21.9	22.3	23.7
	6H	21.6	22.0	22.6	23.0	24.4	21.6	22.0	22.6	23.0	24.4
	8H	21.9	22.2	22.9	23.2	24.6	21.9	22.2	22.9	23.3	24.6
	12H	22.1	22.3	23.1	23.4	24.8	22.1	22.4	23.2	23.4	24.8

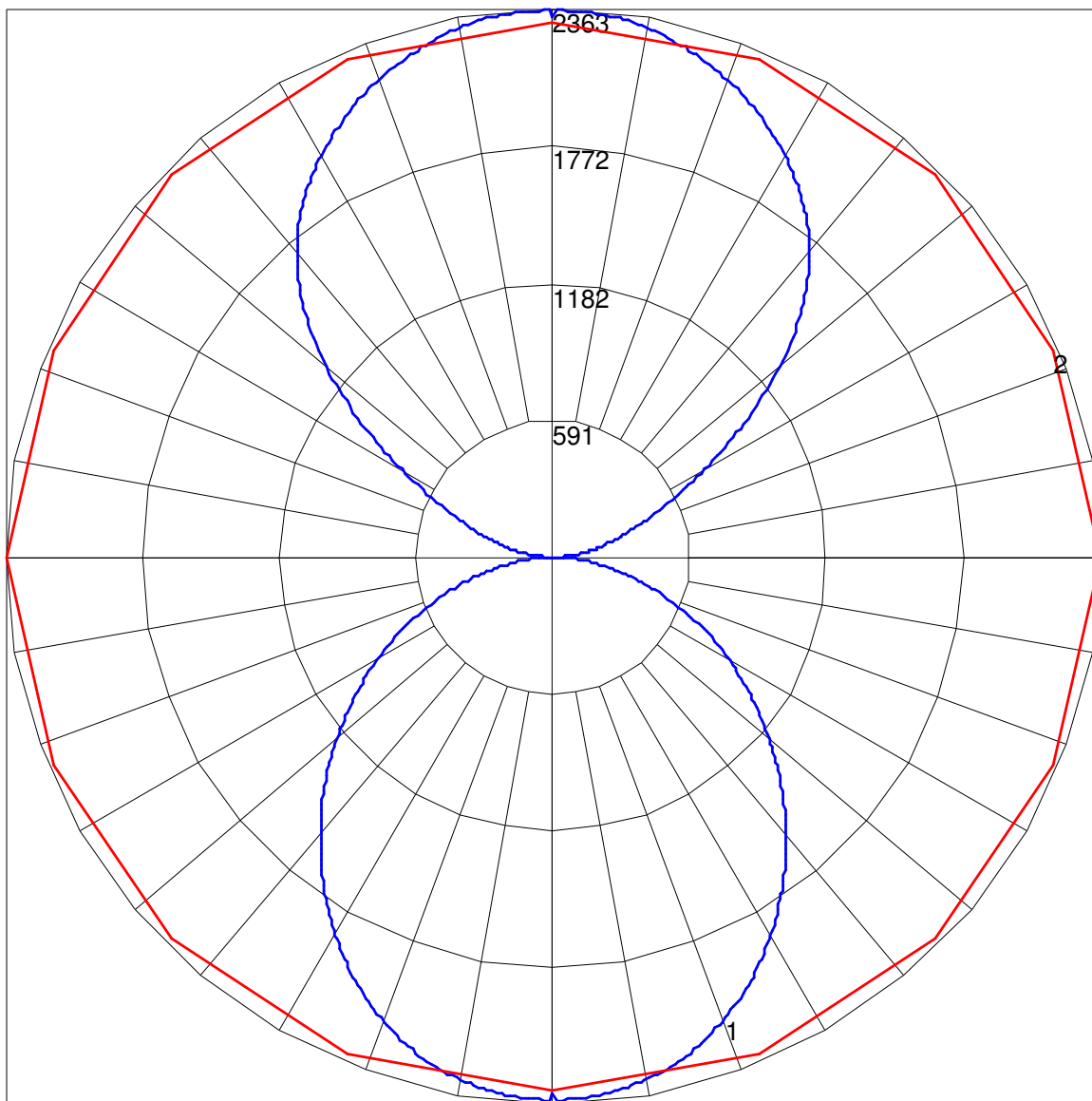
12H	4H	20.9	21.3	21.9	22.4	23.7	20.9	21.3	21.9	22.3	23.7
	6H	21.6	22.0	22.7	23.0	24.4	21.6	22.0	22.7	23.0	24.4
	8H	21.9	22.2	23.0	23.3	24.7	22.0	22.2	23.0	23.3	24.7

Maximum UGR = 24.8

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L15-827U-L15-827D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 2363.017 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.)