

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L12-827D-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-L12-827D-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	9608
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	81.9
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	13072	12745	12599
55	12016	11725	11602
65	11083	10816	10698
75	9399	9394	9389
85	7340	7635	7856

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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	1896.736	1896.736	1896.736	1896.736	1896.736
0.5	1925.378	1898.327	1888.780	1892.758	1886.393
1.0	1925.378	1897.531	1888.780	1892.758	1886.393
1.5	1924.582	1896.736	1887.984	1892.758	1885.597
2.0	1923.787	1895.940	1887.189	1891.962	1885.597
2.5	1922.991	1895.145	1885.597	1891.167	1884.802
3.0	1921.400	1893.553	1884.802	1890.371	1883.211
3.5	1919.809	1891.962	1883.211	1888.780	1881.619
4.0	1918.217	1890.371	1881.619	1887.189	1880.028
4.5	1916.626	1887.984	1880.028	1885.597	1877.641
5.0	1915.035	1886.393	1877.641	1883.211	1875.254
5.5	1912.648	1884.006	1875.254	1880.824	1872.868
6.0	1910.261	1880.824	1872.868	1878.437	1869.685
6.5	1907.079	1878.437	1869.685	1875.254	1867.298
7.0	1904.692	1875.254	1867.298	1872.072	1864.116
7.5	1902.305	1872.072	1864.116	1868.890	1861.729
8.0	1898.327	1868.890	1860.138	1865.707	1858.547
8.5	1895.145	1864.911	1856.160	1861.729	1854.569
9.0	1891.167	1861.729	1852.977	1857.751	1850.590
9.5	1887.189	1857.751	1848.204	1852.977	1846.612
10.0	1883.211	1853.773	1844.226	1848.999	1841.839
10.5	1878.437	1848.999	1839.452	1844.226	1837.861
11.0	1874.459	1844.226	1834.678	1839.452	1832.291
11.5	1868.890	1839.452	1829.905	1834.678	1827.518
12.0	1864.116	1834.678	1825.131	1829.109	1821.948
12.5	1859.342	1829.109	1819.562	1823.540	1816.379
13.0	1853.773	1824.335	1813.992	1817.970	1810.810
13.5	1848.204	1817.970	1808.423	1811.606	1805.241
14.0	1842.634	1812.401	1802.058	1806.036	1799.671
14.5	1837.065	1806.832	1795.693	1799.671	1793.306
15.0	1831.496	1800.467	1789.328	1793.306	1786.942
15.5	1824.335	1794.898	1782.964	1786.146	1779.781
16.0	1816.379	1788.533	1775.803	1779.781	1773.416
16.5	1808.423	1781.372	1768.643	1772.621	1766.256
17.0	1801.263	1774.212	1761.482	1765.460	1759.095
17.5	1793.306	1766.256	1753.526	1757.504	1751.139
18.0	1785.350	1758.300	1745.570	1749.548	1743.183
18.5	1777.394	1750.344	1737.614	1740.796	1735.227
19.0	1769.438	1742.387	1730.453	1732.840	1725.680
19.5	1760.686	1734.431	1722.497	1723.293	1716.132
20.0	1752.730	1725.680	1715.337	1714.541	1706.585
20.5	1743.979	1717.723	1707.381	1704.994	1697.038
21.0	1735.227	1708.972	1698.629	1695.446	1686.695
21.5	1725.680	1700.220	1689.081	1685.899	1676.352
22.0	1716.928	1690.673	1678.739	1675.556	1666.804
22.5	1707.381	1681.125	1669.191	1665.213	1656.461
23.0	1697.833	1671.578	1659.644	1654.075	1646.119
23.5	1688.286	1662.031	1649.301	1643.732	1636.571
24.0	1677.943	1652.483	1639.754	1633.389	1626.228
24.5	1667.600	1642.140	1629.411	1623.046	1615.885
25.0	1658.053	1631.798	1619.068	1612.703	1605.542
25.5	1647.710	1621.455	1607.929	1602.360	1594.404
26.0	1636.571	1610.316	1597.586	1592.017	1584.061
26.5	1626.228	1599.973	1586.448	1581.674	1573.718

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

27.0	1615.090	1588.835	1575.309	1571.331	1562.579
27.5	1603.951	1577.696	1564.966	1560.988	1552.236
28.0	1592.813	1565.762	1553.032	1549.850	1541.098
28.5	1580.878	1553.828	1541.894	1539.507	1529.959
29.0	1568.944	1542.689	1530.755	1528.368	1518.821
29.5	1557.806	1530.755	1519.616	1516.434	1508.478
30.0	1545.872	1518.821	1508.478	1505.295	1497.339
30.5	1533.937	1506.887	1496.544	1494.157	1486.201
31.0	1521.208	1495.748	1484.610	1482.223	1475.062
31.5	1509.273	1483.814	1472.675	1470.289	1463.128
32.0	1496.544	1471.084	1460.741	1457.559	1451.194
32.5	1483.814	1459.150	1448.807	1445.625	1438.464
33.0	1471.084	1447.216	1436.873	1433.690	1425.734
33.5	1459.150	1434.486	1424.143	1420.961	1413.800
34.0	1445.625	1421.756	1412.209	1408.231	1401.070
34.5	1432.895	1409.027	1398.684	1395.501	1387.545
35.0	1420.165	1397.092	1385.954	1382.771	1374.020
35.5	1406.640	1383.567	1373.224	1370.042	1360.494
36.0	1393.114	1370.837	1360.494	1356.516	1347.765
36.5	1380.385	1358.107	1347.765	1343.786	1335.035
37.0	1366.859	1344.582	1334.239	1330.261	1321.509
37.5	1353.334	1331.057	1321.509	1316.736	1308.780
38.0	1339.013	1317.531	1307.984	1303.210	1295.254
38.5	1325.487	1304.006	1294.459	1290.481	1281.729
39.0	1312.758	1290.481	1280.933	1276.955	1268.999
39.5	1298.437	1276.955	1268.203	1263.430	1254.678
40.0	1284.911	1262.634	1254.678	1249.904	1241.948
40.5	1270.590	1249.109	1241.153	1236.379	1228.423
41.0	1257.065	1234.788	1227.627	1222.058	1214.102
41.5	1242.744	1221.262	1213.306	1208.533	1199.781
42.0	1229.219	1206.941	1199.781	1195.007	1186.256
42.5	1215.693	1193.416	1186.256	1180.686	1172.730
43.0	1201.372	1179.891	1172.730	1167.161	1158.409
43.5	1187.847	1165.570	1158.409	1153.636	1144.884
44.0	1173.526	1151.249	1144.088	1139.315	1131.358
44.5	1159.205	1136.928	1129.767	1124.994	1117.037
45.0	1144.884	1123.402	1116.242	1110.673	1103.512
45.5	1131.358	1109.081	1101.921	1097.147	1089.987
46.0	1117.037	1094.760	1087.600	1082.826	1076.461
46.5	1102.716	1080.439	1074.074	1069.301	1062.936
47.0	1088.395	1066.118	1059.753	1054.980	1048.615
47.5	1073.279	1051.797	1045.432	1040.659	1035.090
48.0	1058.958	1037.476	1031.111	1027.133	1020.769
48.5	1044.637	1023.155	1017.586	1012.812	1006.448
49.0	1029.520	1008.834	1003.265	998.491	992.922
49.5	1015.199	994.513	988.944	984.966	979.397
50.0	1000.083	980.192	974.623	970.645	965.076
50.5	984.966	965.871	960.302	956.324	951.550
51.0	969.849	951.550	945.981	942.003	937.229
51.5	955.528	937.229	931.660	928.478	922.908
52.0	941.207	922.908	917.339	914.157	909.383
52.5	926.091	908.587	903.018	900.631	895.062
53.0	911.770	894.266	888.697	886.310	880.741
53.5	896.653	879.945	874.376	871.989	866.420
54.0	882.332	865.624	860.851	858.464	852.099
54.5	868.011	852.099	846.530	844.143	837.778

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55.0	853.690	838.574	833.004	830.618	824.253
55.5	840.165	824.253	818.683	816.297	810.727
56.0	825.048	809.932	804.362	802.771	796.406
56.5	810.727	796.406	790.439	788.689	782.404
57.0	797.202	782.085	776.357	774.447	768.480
57.5	783.199	768.242	762.354	760.604	754.398
58.0	769.196	754.557	748.272	746.681	740.475
58.5	755.114	740.793	734.428	732.996	727.109
59.0	741.270	726.949	720.505	719.153	713.504
59.5	727.825	712.947	706.343	705.388	700.058
60.0	714.061	699.024	692.340	691.545	686.373
60.5	700.456	685.419	678.815	677.622	672.530
61.0	687.089	671.814	665.369	664.017	659.004
61.5	672.768	658.368	652.003	650.491	645.638
62.0	658.686	644.524	638.159	637.045	631.954
62.5	644.285	631.715	625.111	624.236	618.985
63.0	630.442	620.417	615.087	614.689	610.393
63.5	616.439	608.085	603.869	602.993	598.538
64.0	608.006	596.072	592.253	590.502	585.410
64.5	594.878	583.262	579.125	577.534	572.760
65.0	580.159	569.578	566.157	564.645	560.030
65.5	565.122	555.734	552.631	551.915	547.221
66.0	550.642	542.209	539.424	539.106	534.093
66.5	536.321	528.365	525.978	525.978	521.523
67.0	522.159	514.601	512.692	512.930	508.873
67.5	508.236	501.076	499.325	499.803	495.825
68.0	494.154	487.550	485.959	486.596	482.458
68.5	479.992	473.786	472.513	473.388	469.331
69.0	465.353	459.943	458.988	459.465	455.726
69.5	451.111	446.338	445.224	445.781	442.360
70.0	437.029	432.574	431.778	432.017	428.993
70.5	423.185	418.730	418.173	418.412	415.547
71.0	409.023	404.966	404.807	405.125	402.022
71.5	394.862	391.202	391.520	391.759	389.054
72.0	381.098	377.358	377.995	378.313	376.006
72.5	367.333	363.753	364.788	365.106	363.196
73.0	353.729	350.467	351.899	352.296	350.626
73.5	340.521	337.339	339.010	339.726	337.896
74.0	327.473	324.211	326.280	326.837	325.643
74.5	314.425	311.322	313.630	314.187	313.311
75.0	301.298	298.513	301.139	301.696	300.980
75.5	288.329	285.704	288.727	289.443	288.648
76.0	275.202	273.372	276.475	277.270	276.634
76.5	262.790	261.199	264.302	265.177	264.620
77.0	250.697	248.947	252.368	253.163	252.288
77.5	238.206	237.012	240.434	241.070	240.195
78.0	226.033	225.078	228.499	229.454	228.579
78.5	213.940	213.462	216.724	217.838	217.122
79.0	202.324	201.846	205.188	206.541	205.984
79.5	190.708	190.469	193.811	195.243	194.765
80.0	179.251	179.331	182.434	184.423	183.786
80.5	167.715	168.431	171.613	173.523	173.045
81.0	156.656	157.770	160.873	162.861	162.543
81.5	145.995	147.188	150.370	152.359	152.121
82.0	136.049	136.845	140.107	142.176	141.937
82.5	126.104	126.820	130.003	132.071	131.912

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

83.0	116.159	117.273	120.058	122.206	122.365
83.5	106.373	107.726	110.431	112.499	112.977
84.0	97.224	98.338	100.883	102.872	103.589
84.5	87.915	89.108	91.495	93.484	94.200
85.0	79.243	80.198	82.425	84.176	84.812
85.5	70.809	71.287	73.196	75.026	75.663
86.0	62.535	62.694	64.365	66.036	66.831
86.5	54.340	54.340	55.852	57.364	58.080
87.0	46.066	46.066	47.180	49.089	49.646
87.5	37.871	37.951	38.985	40.894	41.610
88.0	30.074	29.995	31.029	33.097	33.893
88.5	22.595	22.118	23.471	25.300	26.414
89.0	14.639	14.401	16.230	17.981	19.174
89.5	6.763	8.036	9.706	11.059	11.457
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.881	2.572	2.374	2.308	2.506
91.0	10.750	5.672	4.617	4.551	4.485
91.5	17.280	11.542	6.859	6.793	6.727
92.0	23.875	19.192	9.893	8.838	8.838
92.5	30.734	27.107	15.301	11.080	10.882
93.0	37.857	34.691	21.633	14.708	13.257
93.5	45.046	41.946	28.426	19.852	17.280
94.0	52.103	49.069	35.945	25.986	22.754
94.5	59.358	56.192	43.793	32.317	28.690
95.0	66.481	63.513	51.510	38.781	34.560
95.5	73.604	70.372	59.028	45.442	40.759
96.0	80.397	77.363	66.415	52.367	47.091
96.5	87.256	84.354	73.802	59.424	53.620
97.0	93.918	91.213	81.123	66.481	60.545
97.5	100.777	98.139	88.509	73.670	67.470
98.0	107.570	104.932	95.698	80.793	74.461
98.5	114.363	111.791	102.623	88.048	81.452
99.0	121.288	118.848	109.680	94.973	88.509
99.5	128.279	125.839	116.803	101.898	95.434
100.0	135.138	132.896	123.926	109.021	102.228
100.5	142.261	139.953	131.049	116.408	109.087
101.0	149.582	147.010	138.304	123.860	116.540
101.5	157.035	154.199	145.691	131.313	124.256
102.0	164.290	161.652	153.078	138.766	131.907
102.5	171.874	169.038	160.728	146.219	139.491
103.0	179.657	176.689	168.313	153.605	147.208
103.5	187.439	184.471	176.359	161.520	154.858
104.0	195.420	192.320	184.537	169.698	162.839
104.5	203.664	200.498	192.716	178.074	170.819
105.0	212.106	208.874	200.828	186.318	178.931
105.5	220.746	217.382	209.204	194.628	186.978
106.0	229.518	225.956	217.712	203.070	195.024
106.5	238.355	234.794	226.616	211.578	203.136
107.0	247.787	244.027	236.113	220.614	211.974
107.5	257.548	253.525	245.742	230.177	221.537
108.0	267.243	263.286	255.569	240.532	231.364
108.5	277.466	273.245	265.396	250.887	241.521
109.0	287.952	283.402	275.487	261.373	251.810
109.5	298.703	293.954	286.106	271.794	262.230
110.0	310.179	304.770	296.988	282.478	273.113
110.5	321.918	315.851	308.134	293.954	284.391

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111.0	333.790	327.458	319.676	305.892	295.735
111.5	345.925	339.396	331.416	318.027	307.409
112.0	358.522	351.663	343.089	330.162	318.555
112.5	371.185	364.260	354.895	342.232	330.360
113.0	384.442	377.253	367.360	354.697	342.694
113.5	398.094	390.840	380.551	368.152	355.950
114.0	411.945	404.690	394.533	382.463	370.658
114.5	426.256	419.002	408.779	397.369	386.289
115.0	440.766	433.709	423.552	412.406	402.118
115.5	455.935	448.549	438.722	427.378	417.748
116.0	471.237	463.982	454.419	443.141	433.643
116.5	487.395	479.811	470.643	459.299	450.593
117.0	504.213	495.969	486.999	476.711	468.071
117.5	516.613	508.566	501.971	492.737	485.812
118.0	532.441	523.274	517.338	509.292	501.575
118.5	550.842	540.817	533.035	524.659	515.755
119.0	568.848	558.097	550.842	542.071	531.518
119.5	587.051	576.498	569.705	559.746	549.193
120.0	605.847	595.559	588.634	579.070	567.858
120.5	624.512	614.883	608.156	599.582	587.776
121.0	644.100	634.603	627.810	620.027	608.947
121.5	663.491	654.125	647.398	640.737	629.657
122.0	683.936	674.043	668.107	661.512	650.432
122.5	703.722	693.829	688.553	681.958	670.086
123.0	724.168	714.934	709.658	704.382	691.851
123.5	745.273	736.039	732.082	726.806	714.275
124.0	766.378	757.804	753.847	749.230	737.358
124.5	787.483	778.909	775.611	770.995	759.783
125.0	808.588	800.014	796.716	792.759	781.547
125.5	830.353	821.779	818.481	814.524	802.652
126.0	851.458	842.884	840.905	836.288	823.757
126.5	872.563	863.989	863.329	859.372	846.181
127.0	894.327	885.753	885.753	882.456	869.925
127.5	916.092	906.858	906.858	904.880	893.668
128.0	937.197	927.964	928.623	927.304	916.092
128.5	958.302	948.409	949.728	949.728	937.857
129.0	979.407	968.855	970.833	971.493	960.281
129.5	1000.512	989.960	992.598	993.917	983.364
130.0	1021.617	1011.065	1014.362	1016.341	1007.767
130.5	1042.722	1031.510	1036.787	1038.106	1030.851
131.0	1063.827	1051.956	1057.892	1059.211	1051.956
131.5	1083.613	1071.742	1078.997	1078.997	1072.401
132.0	1104.059	1091.528	1099.442	1100.102	1092.187
132.5	1123.845	1111.973	1119.888	1120.547	1111.973
133.0	1143.631	1132.419	1139.674	1140.993	1131.100
133.5	1163.417	1152.205	1160.119	1161.438	1151.545
134.0	1183.203	1171.331	1179.246	1181.224	1171.331
134.5	1201.010	1190.458	1197.713	1199.032	1190.458
135.0	1218.818	1208.925	1215.520	1216.839	1207.606
135.5	1235.966	1228.051	1233.328	1233.987	1224.754
136.0	1253.114	1245.859	1249.816	1251.794	1242.561
136.5	1270.921	1263.007	1266.304	1269.602	1261.028
137.0	1287.409	1280.154	1283.452	1286.090	1278.176
137.5	1303.898	1295.983	1299.281	1301.259	1293.345
138.0	1319.726	1311.812	1314.450	1315.769	1307.855
138.5	1335.555	1326.981	1329.619	1330.279	1321.705

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

139.0	1350.724	1342.151	1344.789	1344.789	1335.555
139.5	1365.894	1357.320	1359.298	1358.639	1348.746
140.0	1380.403	1371.170	1373.808	1373.149	1363.256
140.5	1394.254	1384.361	1386.999	1386.339	1375.787
141.0	1408.104	1398.211	1400.189	1398.870	1388.318
141.5	1420.635	1410.742	1413.380	1411.402	1399.530
142.0	1433.826	1423.933	1425.911	1423.273	1411.402
142.5	1446.357	1436.464	1438.442	1435.804	1422.614
143.0	1458.888	1448.335	1450.314	1447.676	1434.485
143.5	1470.760	1460.867	1462.186	1459.547	1445.697
144.0	1481.972	1472.738	1473.398	1470.100	1456.250
144.5	1493.184	1483.950	1484.610	1480.653	1466.802
145.0	1503.736	1495.162	1495.162	1490.546	1476.695
145.5	1514.948	1506.374	1505.715	1501.758	1487.248
146.0	1525.501	1516.927	1516.267	1511.651	1497.800
146.5	1536.053	1527.479	1526.160	1522.203	1508.353
147.0	1545.946	1538.032	1535.394	1532.756	1518.905
147.5	1555.839	1547.925	1545.287	1542.649	1528.798
148.0	1565.732	1557.818	1553.861	1551.882	1539.351
148.5	1575.625	1567.711	1562.435	1561.116	1549.904
149.0	1584.859	1577.604	1571.009	1570.349	1560.456
149.5	1594.092	1586.837	1578.923	1579.583	1570.349
150.0	1603.326	1596.071	1587.497	1588.156	1579.583
150.5	1612.559	1605.304	1595.411	1596.071	1588.816
151.0	1621.133	1613.878	1603.326	1603.985	1597.390
151.5	1630.367	1622.452	1611.900	1611.900	1605.304
152.0	1638.941	1631.026	1619.814	1619.155	1613.219
152.5	1647.515	1638.941	1627.728	1627.069	1620.474
153.0	1656.088	1646.855	1635.643	1634.983	1627.069
153.5	1664.003	1654.769	1643.557	1642.898	1633.005
154.0	1671.917	1662.684	1652.131	1650.812	1639.600
154.5	1680.491	1669.939	1660.046	1658.067	1646.195
155.0	1688.406	1677.194	1667.960	1665.981	1653.450
155.5	1695.660	1683.789	1675.874	1673.896	1660.705
156.0	1702.915	1691.044	1684.448	1681.151	1667.960
156.5	1710.170	1698.299	1692.363	1689.065	1675.215
157.0	1717.425	1705.553	1700.277	1696.980	1682.470
157.5	1724.020	1712.149	1707.532	1704.234	1689.725
158.0	1730.616	1718.744	1714.787	1711.489	1696.980
158.5	1737.871	1725.999	1722.042	1718.744	1704.894
159.0	1743.806	1732.594	1728.637	1725.999	1712.149
159.5	1750.402	1739.190	1735.232	1733.254	1719.404
160.0	1756.338	1745.125	1741.828	1739.849	1726.659
160.5	1762.273	1751.061	1747.764	1746.445	1733.913
161.0	1768.209	1756.997	1753.699	1753.040	1741.168
161.5	1774.145	1763.592	1758.976	1759.635	1748.423
162.0	1780.740	1769.528	1764.252	1766.231	1755.018
162.5	1786.676	1775.464	1769.528	1772.166	1760.954
163.0	1792.612	1781.400	1774.804	1778.102	1766.890
163.5	1798.548	1786.676	1780.081	1784.038	1772.166
164.0	1804.483	1791.952	1784.697	1789.314	1777.443
164.5	1809.100	1797.229	1789.314	1794.590	1782.719
165.0	1814.376	1802.505	1793.931	1799.867	1787.336
165.5	1819.653	1807.122	1798.548	1804.483	1791.952
166.0	1824.929	1811.738	1803.164	1809.100	1795.910
166.5	1830.205	1816.355	1807.781	1813.057	1800.526

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

167.0	1834.822	1820.312	1811.738	1817.015	1804.483
167.5	1839.439	1824.269	1816.355	1820.972	1809.100
168.0	1844.055	1828.227	1820.312	1824.929	1813.057
168.5	1848.672	1832.184	1824.269	1828.886	1817.674
169.0	1852.629	1835.482	1828.227	1832.184	1821.631
169.5	1855.927	1838.779	1831.524	1835.482	1825.589
170.0	1859.225	1842.077	1834.822	1838.779	1830.205
170.5	1862.522	1845.375	1837.460	1842.077	1833.503
171.0	1865.820	1848.013	1840.098	1845.375	1836.801
171.5	1868.458	1850.651	1842.736	1848.672	1840.098
172.0	1871.096	1853.289	1844.715	1851.310	1842.736
172.5	1873.734	1855.927	1846.694	1853.289	1844.715
173.0	1876.373	1858.565	1848.672	1855.927	1846.034
173.5	1878.351	1860.544	1850.651	1857.246	1847.353
174.0	1880.330	1862.522	1852.629	1858.565	1848.013
174.5	1881.649	1863.841	1853.948	1859.884	1848.672
175.0	1882.968	1865.820	1855.268	1860.544	1848.672
175.5	1884.287	1867.139	1857.246	1861.203	1849.332
176.0	1885.606	1868.458	1858.565	1861.203	1849.332
176.5	1886.266	1869.777	1859.225	1861.863	1849.332
177.0	1886.925	1871.096	1860.544	1861.863	1848.672
177.5	1888.244	1872.415	1861.863	1861.863	1848.672
178.0	1888.904	1872.415	1862.522	1861.863	1849.332
178.5	1888.904	1873.075	1863.182	1861.863	1849.332
179.0	1889.563	1873.734	1863.182	1861.863	1849.332
179.5	1890.223	1873.734	1863.841	1861.863	1849.332
180.0	1867.139	1867.139	1867.139	1867.139	1867.139



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

Zone	Lumens	%Lamp	%Fixt
0-20	685.49	N.A.	7.10
0-30	1433.13	N.A.	14.90
0-40	2302.34	N.A.	24.00
0-60	3912.2	N.A.	40.70
0-80	4790.92	N.A.	49.90
0-90	4883.77	N.A.	50.80
10-90	4704.84	N.A.	49.00
20-40	1616.85	N.A.	16.80
20-50	2479.72	N.A.	25.80
40-70	2169.33	N.A.	22.60
60-80	878.73	N.A.	9.10
70-80	319.25	N.A.	3.30
80-90	92.85	N.A.	1.00
90-110	270.21	N.A.	2.80
90-120	693.65	N.A.	7.20
90-130	1405.22	N.A.	14.60
90-150	3268.42	N.A.	34.00
90-180	4723.74	N.A.	49.20
110-180	4453.53	N.A.	46.40
0-180	9607.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.93
10-20	506.57
20-30	747.64
30-40	869.21
40-50	862.87
50-60	746.99
60-70	559.48
70-80	319.25
80-90	92.85
90-100	58.28
100-110	211.93
110-120	423.44
120-130	711.57
130-140	930.44
140-150	932.77
150-160	770.51
160-170	507.74
170-180	177.06

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L12-827D-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-L12-827D-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	16.8	17.7	17.8	18.7	19.9	UGR Viewed Endwise			
	3H	18.6	19.4	19.6	20.4	21.6	16.7	17.6	17.7	18.6
	4H	19.2	20.0	20.2	20.9	22.2	18.5	19.3	19.5	20.3
	6H	19.6	20.3	20.6	21.3	22.6	19.1	19.9	20.1	20.9
	8H	19.8	20.4	20.8	21.4	22.7	19.6	20.3	20.6	21.3
	12H	19.9	20.5	20.9	21.5	22.8	19.7	20.4	20.7	21.4

4H	2H	17.4	18.1	18.3	19.1	20.4	19.8	20.5	20.8	21.5
	3H	19.3	20.0	20.3	21.0	22.3	16.7	17.6	17.7	18.6
	4H	20.1	20.6	21.1	21.6	23.0	18.5	19.3	19.5	20.3
	6H	20.6	21.1	21.6	22.1	23.5	19.1	19.9	20.1	20.9
	8H	20.8	21.3	21.8	22.3	23.6	19.6	20.3	20.6	21.3
	12H	20.9	21.3	21.9	22.4	23.7	19.7	20.4	20.7	21.4

8H	4H	20.3	20.8	21.3	21.8	23.1	19.8	20.5	20.8	21.5
	6H	21.0	21.4	22.0	22.4	23.8	16.7	17.6	17.7	18.6
	8H	21.3	21.6	22.3	22.6	24.0	18.5	19.3	19.5	20.3
	12H	21.5	21.8	22.5	22.8	24.2	19.1	19.9	20.1	20.9

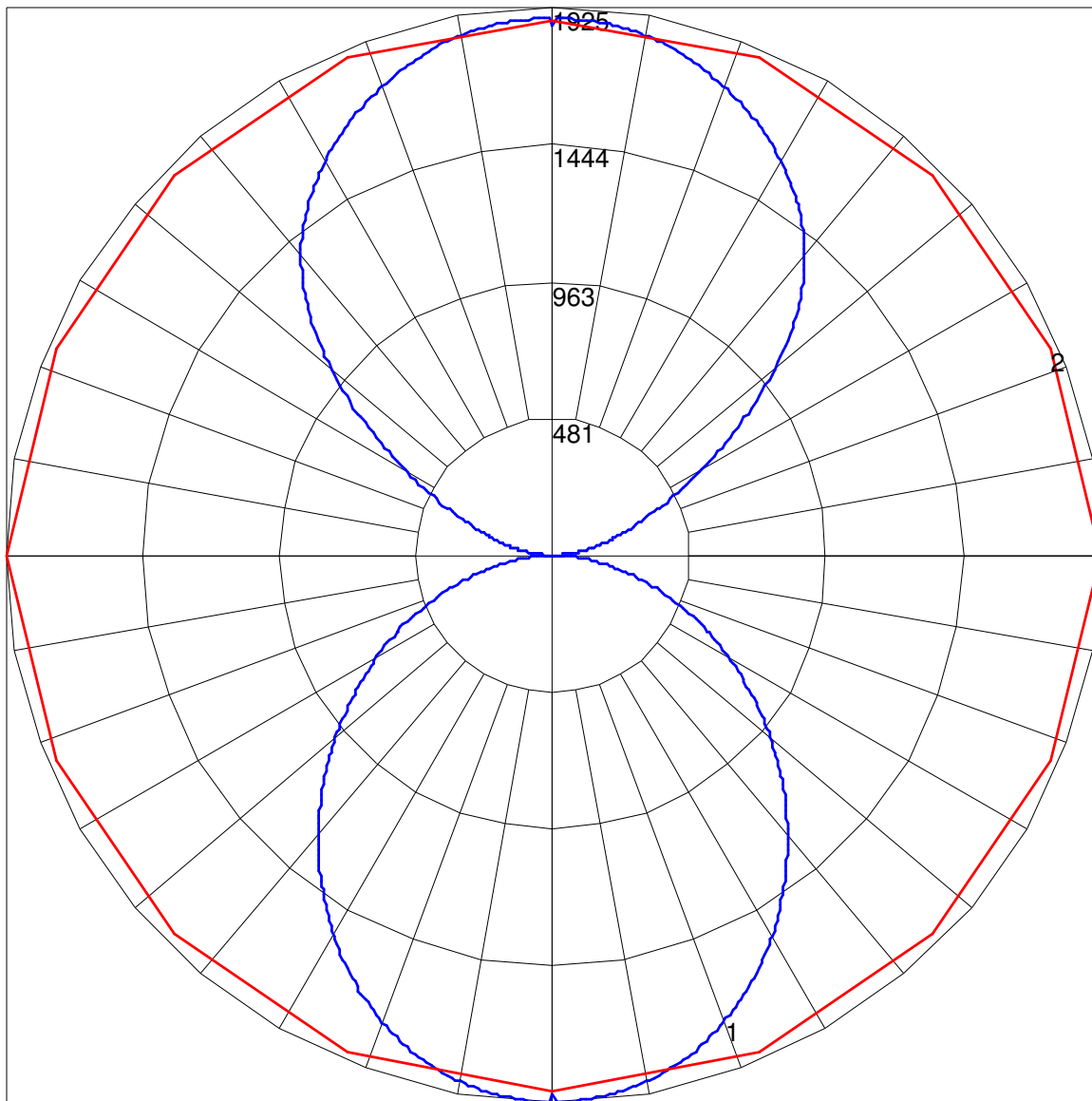
12H	4H	20.3	20.7	21.3	21.8	23.1	19.6	20.3	20.6	21.3
	6H	21.1	21.4	22.1	22.4	23.8	19.7	20.4	20.7	21.4
	8H	21.3	21.6	22.4	22.7	24.1	19.8	20.4	20.7	21.4

Maximum UGR = 24.2

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L12-827D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1925.378 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.)