

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-L15-827D-F-F-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15177918.03 & UL #15177918.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2026-03-03

[TEST DATE] 2/19/2024

[MANUFAC] H E Williams Inc

[LUMCAT] MX4WUDC-4-00-L8-827U-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	9143
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	77.6
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	12402	12092	11954
55	11400	11124	11007
65	10515	10261	10150
75	8917	8912	8907
85	6964	7244	7454

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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	1799.528	1799.528	1799.528	1799.528	1799.528
0.5	1826.702	1801.038	1791.980	1795.754	1789.715
1.0	1826.702	1800.283	1791.980	1795.754	1789.715
1.5	1825.947	1799.528	1791.225	1795.754	1788.960
2.0	1825.192	1798.773	1790.470	1794.999	1788.960
2.5	1824.437	1798.018	1788.960	1794.244	1788.205
3.0	1822.928	1796.509	1788.205	1793.489	1786.696
3.5	1821.418	1794.999	1786.696	1791.980	1785.186
4.0	1819.908	1793.489	1785.186	1790.470	1783.676
4.5	1818.399	1791.225	1783.676	1788.960	1781.412
5.0	1816.889	1789.715	1781.412	1786.696	1779.147
5.5	1814.625	1787.451	1779.147	1784.431	1776.883
6.0	1812.360	1784.431	1776.883	1782.167	1773.863
6.5	1809.341	1782.167	1773.863	1779.147	1771.599
7.0	1807.076	1779.147	1771.599	1776.128	1768.580
7.5	1804.812	1776.128	1768.580	1773.109	1766.315
8.0	1801.038	1773.109	1764.805	1770.089	1763.296
8.5	1798.018	1769.334	1761.031	1766.315	1759.522
9.0	1794.244	1766.315	1758.012	1762.541	1755.747
9.5	1790.470	1762.541	1753.483	1758.012	1751.973
10.0	1786.696	1758.767	1749.709	1754.238	1747.444
10.5	1782.167	1754.238	1745.180	1749.709	1743.670
11.0	1778.392	1749.709	1740.651	1745.180	1738.386
11.5	1773.109	1745.180	1736.122	1740.651	1733.857
12.0	1768.580	1740.651	1731.593	1735.367	1728.573
12.5	1764.051	1735.367	1726.309	1730.083	1723.289
13.0	1758.767	1730.838	1721.025	1724.799	1718.006
13.5	1753.483	1724.799	1715.741	1718.760	1712.722
14.0	1748.199	1719.515	1709.702	1713.477	1707.438
14.5	1742.915	1714.231	1703.664	1707.438	1701.399
15.0	1737.631	1708.193	1697.625	1701.399	1695.361
15.5	1730.838	1702.909	1691.586	1694.606	1688.567
16.0	1723.289	1696.870	1684.793	1688.567	1682.528
16.5	1715.741	1690.077	1677.999	1681.774	1675.735
17.0	1708.948	1683.283	1671.206	1674.980	1668.941
17.5	1701.399	1675.735	1663.657	1667.432	1661.393
18.0	1693.851	1668.186	1656.109	1659.883	1653.845
18.5	1686.303	1660.638	1648.561	1651.580	1646.296
19.0	1678.754	1653.090	1641.767	1644.032	1637.238
19.5	1670.451	1645.541	1634.219	1634.974	1628.180
20.0	1662.903	1637.238	1627.425	1626.671	1619.122
20.5	1654.599	1629.690	1619.877	1617.613	1610.064
21.0	1646.296	1621.387	1611.574	1608.554	1600.251
21.5	1637.238	1613.083	1602.516	1599.496	1590.438
22.0	1628.935	1604.025	1592.703	1589.684	1581.380
22.5	1619.877	1594.967	1583.645	1579.871	1571.568
23.0	1610.819	1585.909	1574.587	1569.303	1561.755
23.5	1601.761	1576.851	1564.774	1559.490	1552.697
24.0	1591.948	1567.793	1555.716	1549.677	1542.884
24.5	1582.135	1557.981	1545.903	1539.864	1533.071
25.0	1573.077	1548.168	1536.090	1530.052	1523.258
25.5	1563.264	1538.355	1525.523	1520.239	1512.690
26.0	1552.697	1527.787	1515.710	1510.426	1502.878
26.5	1542.884	1517.974	1505.142	1500.613	1493.065

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27.0	1532.316	1507.407	1494.574	1490.800	1482.497
27.5	1521.748	1496.839	1484.761	1480.987	1472.684
28.0	1511.181	1485.516	1473.439	1470.420	1462.116
28.5	1499.858	1474.194	1462.871	1460.607	1451.549
29.0	1488.536	1463.626	1452.304	1450.039	1440.981
29.5	1477.968	1452.304	1441.736	1438.716	1431.168
30.0	1466.645	1440.981	1431.168	1428.149	1420.600
30.5	1455.323	1429.658	1419.846	1417.581	1410.033
31.0	1443.246	1419.091	1408.523	1406.259	1399.465
31.5	1431.923	1407.768	1397.201	1394.936	1388.143
32.0	1419.846	1395.691	1385.878	1382.859	1376.820
32.5	1407.768	1384.368	1374.555	1371.536	1364.743
33.0	1395.691	1373.046	1363.233	1360.214	1352.665
33.5	1384.368	1360.968	1351.156	1348.136	1341.343
34.0	1371.536	1348.891	1339.833	1336.059	1329.265
34.5	1359.459	1336.814	1327.001	1323.981	1316.433
35.0	1347.381	1325.491	1314.923	1311.904	1303.601
35.5	1334.549	1312.659	1302.846	1299.827	1290.769
36.0	1321.717	1300.582	1290.769	1286.995	1278.691
36.5	1309.640	1288.504	1278.691	1274.917	1266.614
37.0	1296.807	1275.672	1265.859	1262.085	1253.782
37.5	1283.975	1262.840	1253.782	1249.253	1241.704
38.0	1270.388	1250.008	1240.950	1236.421	1228.872
38.5	1257.556	1237.175	1228.117	1224.343	1216.040
39.0	1245.479	1224.343	1215.285	1211.511	1203.963
39.5	1231.892	1211.511	1203.208	1198.679	1190.376
40.0	1219.059	1197.924	1190.376	1185.847	1178.298
40.5	1205.472	1185.092	1177.543	1173.014	1165.466
41.0	1192.640	1171.505	1164.711	1159.427	1151.879
41.5	1179.053	1158.673	1151.124	1146.595	1138.292
42.0	1166.221	1145.085	1138.292	1133.763	1125.460
42.5	1153.389	1132.253	1125.460	1120.176	1112.628
43.0	1139.802	1119.421	1112.628	1107.344	1099.041
43.5	1126.969	1105.834	1099.041	1094.511	1086.208
44.0	1113.382	1092.247	1085.453	1080.924	1073.376
44.5	1099.795	1078.660	1071.866	1067.337	1059.789
45.0	1086.208	1065.828	1059.034	1053.750	1046.957
45.5	1073.376	1052.241	1045.447	1040.918	1034.125
46.0	1059.789	1038.654	1031.860	1027.331	1021.292
46.5	1046.202	1025.067	1019.028	1014.499	1008.460
47.0	1032.615	1011.480	1005.441	1000.912	994.873
47.5	1018.273	997.893	991.854	987.325	982.041
48.0	1004.686	984.306	978.267	974.493	968.454
48.5	991.099	970.718	965.435	960.906	954.867
49.0	976.757	957.131	951.848	947.319	942.035
49.5	963.170	943.544	938.261	934.486	929.203
50.0	948.828	929.957	924.674	920.899	915.615
50.5	934.486	916.370	911.086	907.312	902.783
51.0	920.144	902.783	897.499	893.725	889.196
51.5	906.557	889.196	883.912	880.893	875.609
52.0	892.970	875.609	870.325	867.306	862.777
52.5	878.629	862.022	856.738	854.474	849.190
53.0	865.042	848.435	843.151	840.887	835.603
53.5	850.700	834.848	829.564	827.300	822.016
54.0	837.113	821.261	816.732	814.468	808.429
54.5	823.526	808.429	803.145	800.880	794.842

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55.0	809.939	795.597	790.313	788.048	782.010
55.5	797.106	782.010	776.726	774.461	769.177
56.0	782.764	768.423	763.139	761.629	755.590
56.5	769.177	755.590	749.929	748.268	742.305
57.0	756.345	742.003	736.568	734.757	729.096
57.5	743.060	728.869	723.283	721.623	715.735
58.0	729.775	715.886	709.923	708.413	702.525
58.5	716.414	702.827	696.789	695.430	689.844
59.0	703.280	689.693	683.579	682.296	676.936
59.5	690.523	676.408	670.143	669.237	664.180
60.0	677.465	663.199	656.858	656.103	651.197
60.5	664.557	650.291	644.026	642.893	638.062
61.0	651.876	637.383	631.269	629.986	625.230
61.5	638.289	624.626	618.588	617.154	612.549
62.0	624.928	611.492	605.454	604.397	599.566
62.5	611.266	599.339	593.074	592.244	587.262
63.0	598.132	588.621	583.563	583.186	579.110
63.5	584.847	576.921	572.920	572.090	567.863
64.0	576.845	565.523	561.900	560.239	555.408
64.5	564.391	553.370	549.445	547.935	543.406
65.0	550.426	540.387	537.141	535.707	531.329
65.5	536.160	527.253	524.309	523.629	519.176
66.0	522.422	514.420	511.778	511.477	506.721
66.5	508.835	501.286	499.022	499.022	494.795
67.0	495.399	488.228	486.416	486.642	482.793
67.5	482.189	475.395	473.735	474.188	470.414
68.0	468.828	462.563	461.053	461.657	457.732
68.5	455.392	449.505	448.297	449.127	445.278
69.0	441.503	436.370	435.465	435.918	432.370
69.5	427.992	423.463	422.406	422.934	419.689
70.0	414.631	410.404	409.649	409.876	407.007
70.5	401.497	397.270	396.742	396.968	394.251
71.0	388.061	384.211	384.060	384.362	381.418
71.5	374.625	371.153	371.455	371.681	369.115
72.0	361.566	358.018	358.622	358.924	356.735
72.5	348.508	345.111	346.092	346.394	344.582
73.0	335.600	332.505	333.864	334.241	332.656
73.5	323.070	320.050	321.635	322.315	320.579
74.0	310.690	307.596	309.558	310.086	308.954
74.5	298.311	295.367	297.556	298.085	297.254
75.0	285.856	283.214	285.705	286.234	285.554
75.5	273.552	271.061	273.930	274.609	273.854
76.0	261.098	259.362	262.305	263.060	262.456
76.5	249.322	247.813	250.756	251.587	251.058
77.0	237.849	236.188	239.434	240.189	239.358
77.5	225.998	224.866	228.111	228.715	227.885
78.0	214.449	213.543	216.789	217.695	216.864
78.5	202.975	202.522	205.617	206.674	205.995
79.0	191.955	191.502	194.672	195.955	195.427
79.5	180.934	180.708	183.878	185.237	184.784
80.0	170.064	170.140	173.084	174.971	174.367
80.5	159.119	159.799	162.818	164.630	164.177
81.0	148.627	149.684	152.628	154.515	154.213
81.5	138.512	139.645	142.664	144.551	144.325
82.0	129.077	129.832	132.926	134.889	134.663
82.5	119.641	120.321	123.340	125.303	125.152

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83.0	110.206	111.263	113.905	115.943	116.094
83.5	100.921	102.205	104.771	106.734	107.187
84.0	92.241	93.298	95.713	97.600	98.280
84.5	83.409	84.542	86.806	88.693	89.372
85.0	75.182	76.087	78.201	79.862	80.465
85.5	67.180	67.633	69.445	71.181	71.785
86.0	59.330	59.481	61.066	62.651	63.406
86.5	51.555	51.555	52.990	54.424	55.103
87.0	43.705	43.705	44.762	46.573	47.102
87.5	35.930	36.006	36.987	38.799	39.478
88.0	28.533	28.457	29.439	31.401	32.156
88.5	21.437	20.984	22.268	24.004	25.061
89.0	13.889	13.662	15.399	17.059	18.191
89.5	6.416	7.624	9.209	10.492	10.870
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.659	2.455	2.267	2.204	2.392
91.0	10.262	5.415	4.407	4.344	4.281
91.5	16.496	11.018	6.548	6.485	6.422
92.0	22.792	18.321	9.444	8.437	8.437
92.5	29.339	25.877	14.607	10.577	10.388
93.0	36.139	33.117	20.651	14.040	12.655
93.5	43.002	40.043	27.136	18.951	16.496
94.0	49.738	46.842	34.313	24.806	21.721
94.5	56.664	53.642	41.806	30.850	27.388
95.0	63.464	60.631	49.172	37.021	32.991
95.5	70.263	67.178	56.349	43.380	38.909
96.0	76.748	73.852	63.401	49.990	44.954
96.5	83.296	80.526	70.452	56.727	51.187
97.0	89.655	87.074	77.441	63.464	57.797
97.5	96.203	93.685	84.492	70.326	64.408
98.0	102.688	100.170	91.355	77.126	71.082
98.5	109.173	106.717	97.966	84.052	77.756
99.0	115.784	113.454	104.703	90.663	84.492
99.5	122.457	120.128	111.502	97.273	91.103
100.0	129.005	126.865	118.302	104.073	97.588
100.5	135.805	133.601	125.102	111.125	104.136
101.0	142.794	140.338	132.027	118.239	111.251
101.5	149.908	147.201	139.079	125.354	118.617
102.0	156.834	154.315	146.130	132.468	125.920
102.5	164.074	161.367	153.434	139.583	133.161
103.0	171.503	168.670	160.674	146.634	140.527
103.5	178.933	176.099	168.355	154.189	147.830
104.0	186.551	183.592	176.162	161.996	155.449
104.5	194.421	191.399	183.969	169.992	163.067
105.0	202.480	199.395	191.714	177.862	170.811
105.5	210.727	207.517	199.709	185.795	178.492
106.0	219.101	215.701	207.831	193.854	186.173
106.5	227.538	224.138	216.331	201.976	193.917
107.0	236.541	232.952	225.397	210.602	202.354
107.5	245.859	242.019	234.589	219.731	211.483
108.0	255.114	251.337	243.970	229.616	220.864
108.5	264.873	260.844	253.351	239.500	230.560
109.0	274.884	270.540	262.984	249.511	240.382
109.5	285.146	280.613	273.121	259.459	250.329
110.0	296.101	290.939	283.509	269.658	260.718
110.5	307.308	301.516	294.150	280.613	271.484

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111.0	318.641	312.597	305.168	292.009	282.313
111.5	330.226	323.993	316.375	303.594	293.457
112.0	342.251	335.703	327.519	315.178	304.097
112.5	354.340	347.729	338.788	326.700	315.367
113.0	366.994	360.132	350.688	338.599	327.141
113.5	380.027	373.102	363.280	351.443	339.796
114.0	393.249	386.323	376.627	365.106	353.836
114.5	406.911	399.986	390.227	379.335	368.757
115.0	420.762	414.026	404.330	393.690	383.868
115.5	435.243	428.192	418.811	407.982	398.789
116.0	449.850	442.924	433.795	423.029	413.963
116.5	465.275	458.035	449.283	438.454	430.143
117.0	481.330	473.460	464.897	455.076	446.828
117.5	493.167	485.485	479.189	470.375	463.764
118.0	508.277	499.526	493.859	486.178	478.812
118.5	525.843	516.273	508.844	500.848	492.348
119.0	543.031	532.768	525.843	517.469	507.396
119.5	560.408	550.334	543.849	534.342	524.269
120.0	578.352	568.530	561.919	552.790	542.087
120.5	596.169	586.977	580.555	572.370	561.101
121.0	614.868	605.802	599.317	591.888	581.311
121.5	633.379	624.438	618.016	611.657	601.080
122.0	652.896	643.452	637.786	631.490	620.913
122.5	671.784	662.340	657.304	651.008	639.675
123.0	691.302	682.488	677.451	672.414	660.452
123.5	711.449	702.635	698.857	693.820	681.858
124.0	731.597	723.412	719.634	715.227	703.894
124.5	751.744	743.559	740.411	736.004	725.301
125.0	771.891	763.706	760.558	756.781	746.077
125.5	792.668	784.483	781.335	777.557	766.225
126.0	812.815	804.630	802.741	798.334	786.372
126.5	832.962	824.777	824.148	820.370	807.778
127.0	853.739	845.554	845.554	842.406	830.444
127.5	874.516	865.702	865.702	863.813	853.110
128.0	894.663	885.849	886.478	885.219	874.516
128.5	914.810	905.366	906.626	906.626	895.293
129.0	934.958	924.884	926.773	927.402	916.699
129.5	955.105	945.031	947.550	948.809	938.735
130.0	975.252	965.179	968.327	970.215	962.031
130.5	995.399	984.696	989.733	990.992	984.067
131.0	1015.547	1004.214	1009.880	1011.139	1004.214
131.5	1034.435	1023.102	1030.027	1030.027	1023.731
132.0	1053.952	1041.990	1049.545	1050.175	1042.619
132.5	1072.840	1061.508	1069.063	1069.692	1061.508
133.0	1091.728	1081.025	1087.951	1089.210	1079.766
133.5	1110.616	1099.913	1107.468	1108.728	1099.284
134.0	1129.504	1118.172	1125.727	1127.616	1118.172
134.5	1146.504	1136.430	1143.356	1144.615	1136.430
135.0	1163.503	1154.059	1160.355	1161.614	1152.800
135.5	1179.873	1172.317	1177.354	1177.984	1169.169
136.0	1196.242	1189.317	1193.094	1194.983	1186.169
136.5	1213.241	1205.686	1208.834	1211.982	1203.797
137.0	1228.981	1222.056	1225.204	1227.722	1220.167
137.5	1244.721	1237.166	1240.314	1242.203	1234.648
138.0	1259.832	1252.277	1254.795	1256.054	1248.499
138.5	1274.942	1266.757	1269.276	1269.905	1261.721

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-L15-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1289.423	1281.238	1283.757	1283.757	1274.942
139.5	1303.904	1295.719	1297.608	1296.978	1287.534
140.0	1317.755	1308.941	1311.459	1310.830	1301.386
140.5	1330.977	1321.533	1324.051	1323.422	1313.348
141.0	1344.198	1334.754	1336.643	1335.384	1325.310
141.5	1356.161	1346.717	1349.235	1347.346	1336.014
142.0	1368.753	1359.309	1361.198	1358.679	1347.346
142.5	1380.715	1371.271	1373.160	1370.642	1358.050
143.0	1392.678	1382.604	1384.493	1381.974	1369.382
143.5	1404.011	1394.567	1395.826	1393.307	1380.086
144.0	1414.714	1405.899	1406.529	1403.381	1390.159
144.5	1425.417	1416.603	1417.232	1413.455	1400.233
145.0	1435.491	1427.306	1427.306	1422.899	1409.677
145.5	1446.194	1438.009	1437.379	1433.602	1419.751
146.0	1456.267	1448.083	1447.453	1443.046	1429.824
146.5	1466.341	1458.156	1456.897	1453.119	1439.898
147.0	1475.785	1468.230	1465.711	1463.193	1449.971
147.5	1485.229	1477.674	1475.155	1472.637	1459.415
148.0	1494.673	1487.118	1483.340	1481.451	1469.489
148.5	1504.117	1496.562	1491.525	1490.266	1479.563
149.0	1512.932	1506.006	1499.710	1499.080	1489.636
149.5	1521.746	1514.820	1507.265	1507.895	1499.080
150.0	1530.560	1523.635	1515.450	1516.080	1507.895
150.5	1539.375	1532.449	1523.005	1523.635	1516.709
151.0	1547.560	1540.634	1530.560	1531.190	1524.894
151.5	1556.374	1548.819	1538.745	1538.745	1532.449
152.0	1564.559	1557.004	1546.300	1545.671	1540.004
152.5	1572.744	1564.559	1553.856	1553.226	1546.930
153.0	1580.928	1572.114	1561.411	1560.781	1553.226
153.5	1588.484	1579.669	1568.966	1568.336	1558.892
154.0	1596.039	1587.224	1577.151	1575.892	1565.188
154.5	1604.224	1594.150	1584.706	1582.817	1571.484
155.0	1611.779	1601.076	1592.261	1590.372	1578.410
155.5	1618.705	1607.372	1599.816	1597.928	1585.336
156.0	1625.630	1614.297	1608.001	1604.853	1592.261
156.5	1632.556	1621.223	1615.556	1612.408	1599.187
157.0	1639.481	1628.149	1623.112	1619.964	1606.112
157.5	1645.777	1634.445	1630.037	1626.889	1613.038
158.0	1652.073	1640.741	1636.963	1633.815	1619.964
158.5	1658.999	1647.666	1643.889	1640.741	1627.519
159.0	1664.665	1653.962	1650.185	1647.666	1634.445
159.5	1670.961	1660.258	1656.481	1654.592	1641.370
160.0	1676.628	1665.925	1662.777	1660.888	1648.296
160.5	1682.294	1671.591	1668.443	1667.184	1655.221
161.0	1687.961	1677.257	1674.109	1673.480	1662.147
161.5	1693.627	1683.553	1679.146	1679.776	1669.073
162.0	1699.923	1689.220	1684.183	1686.072	1675.369
162.5	1705.589	1694.886	1689.220	1691.738	1681.035
163.0	1711.256	1700.553	1694.257	1697.405	1686.701
163.5	1716.922	1705.589	1699.293	1703.071	1691.738
164.0	1722.589	1710.626	1703.701	1708.108	1696.775
164.5	1726.996	1715.663	1708.108	1713.145	1701.812
165.0	1732.033	1720.700	1712.515	1718.181	1706.219
165.5	1737.070	1725.107	1716.922	1722.589	1710.626
166.0	1742.106	1729.514	1721.329	1726.996	1714.404
166.5	1747.143	1733.922	1725.737	1730.774	1718.811

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-L15-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1751.550	1737.699	1729.514	1734.551	1722.589
167.5	1755.958	1741.477	1733.922	1738.329	1726.996
168.0	1760.365	1745.254	1737.699	1742.106	1730.774
168.5	1764.772	1749.032	1741.477	1745.884	1735.181
169.0	1768.550	1752.180	1745.254	1749.032	1738.958
169.5	1771.698	1755.328	1748.402	1752.180	1742.736
170.0	1774.846	1758.476	1751.550	1755.328	1747.143
170.5	1777.994	1761.624	1754.069	1758.476	1750.291
171.0	1781.142	1764.142	1756.587	1761.624	1753.439
171.5	1783.660	1766.661	1759.106	1764.772	1756.587
172.0	1786.178	1769.179	1760.994	1767.290	1759.106
172.5	1788.697	1771.698	1762.883	1769.179	1760.994
173.0	1791.215	1774.216	1764.772	1771.698	1762.254
173.5	1793.104	1776.105	1766.661	1772.957	1763.513
174.0	1794.993	1777.994	1768.550	1774.216	1764.142
174.5	1796.252	1779.253	1769.809	1775.475	1764.772
175.0	1797.511	1781.142	1771.068	1776.105	1764.772
175.5	1798.770	1782.401	1772.957	1776.734	1765.402
176.0	1800.030	1783.660	1774.216	1776.734	1765.402
176.5	1800.659	1784.919	1774.846	1777.364	1765.402
177.0	1801.289	1786.178	1776.105	1777.364	1764.772
177.5	1802.548	1787.438	1777.364	1777.364	1764.772
178.0	1803.178	1787.438	1777.994	1777.364	1765.402
178.5	1803.178	1788.067	1778.623	1777.364	1765.402
179.0	1803.807	1788.697	1778.623	1777.364	1765.402
179.5	1804.437	1788.697	1779.253	1777.364	1765.402
180.0	1782.401	1782.401	1782.401	1782.401	1782.401



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-L15-827D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	650.36	N.A.	7.10
0-30	1359.68	N.A.	14.90
0-40	2184.35	N.A.	23.90
0-60	3711.69	N.A.	40.60
0-80	4545.39	N.A.	49.70
0-90	4633.48	N.A.	50.70
10-90	4463.72	N.A.	48.80
20-40	1533.99	N.A.	16.80
20-50	2352.63	N.A.	25.70
40-70	2058.15	N.A.	22.50
60-80	833.69	N.A.	9.10
70-80	302.89	N.A.	3.30
80-90	88.09	N.A.	1.00
90-110	257.94	N.A.	2.80
90-120	662.17	N.A.	7.20
90-130	1341.44	N.A.	14.70
90-150	3120.09	N.A.	34.10
90-180	4509.35	N.A.	49.30
110-180	4251.41	N.A.	46.50
0-180	9142.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.76
10-20	480.60
20-30	709.32
30-40	824.67
40-50	818.65
50-60	708.70
60-70	530.80
70-80	302.89
80-90	88.09
90-100	55.64
100-110	202.31
110-120	404.22
120-130	679.27
130-140	888.21
140-150	890.43
150-160	735.54
160-170	484.69
170-180	169.03

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-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	39	35	38	34	30	31	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	25	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 : MX4WUDC-4-00-L8-827U-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	16.6	17.5	17.6	18.5	19.7	UGR Viewed Endwise	16.5	17.4	17.5	18.4	19.6
	3H	18.4	19.2	19.3	20.1	21.4		18.3	19.1	19.2	20.0	21.3
	4H	19.0	19.7	20.0	20.7	22.0		18.9	19.7	19.9	20.6	21.9
	6H	19.4	20.1	20.4	21.1	22.4		19.4	20.1	20.4	21.0	22.3
	8H	19.6	20.2	20.5	21.2	22.5		19.5	20.2	20.5	21.2	22.5
	12H	19.6	20.3	20.6	21.2	22.6		19.6	20.2	20.6	21.2	22.6

4H	2H	17.1	17.9	18.1	18.9	20.2	17.1	17.8	18.0	18.8	20.1
	3H	19.1	19.7	20.1	20.7	22.0	19.0	19.7	20.0	20.7	22.0
	4H	19.9	20.4	20.8	21.4	22.7	19.8	20.4	20.8	21.4	22.7
	6H	20.4	20.9	21.4	21.9	23.2	20.4	20.9	21.4	21.9	23.2
	8H	20.6	21.0	21.6	22.1	23.4	20.6	21.0	21.6	22.1	23.4
	12H	20.7	21.1	21.7	22.1	23.5	20.7	21.1	21.8	22.2	23.5

8H	4H	20.1	20.6	21.1	21.6	22.9	20.1	20.5	21.1	21.5	22.9
	6H	20.8	21.2	21.8	22.2	23.6	20.8	21.2	21.8	22.2	23.5
	8H	21.0	21.4	22.1	22.4	23.8	21.1	21.4	22.1	22.4	23.8
	12H	21.2	21.5	22.3	22.6	24.0	21.3	21.6	22.3	22.6	24.0

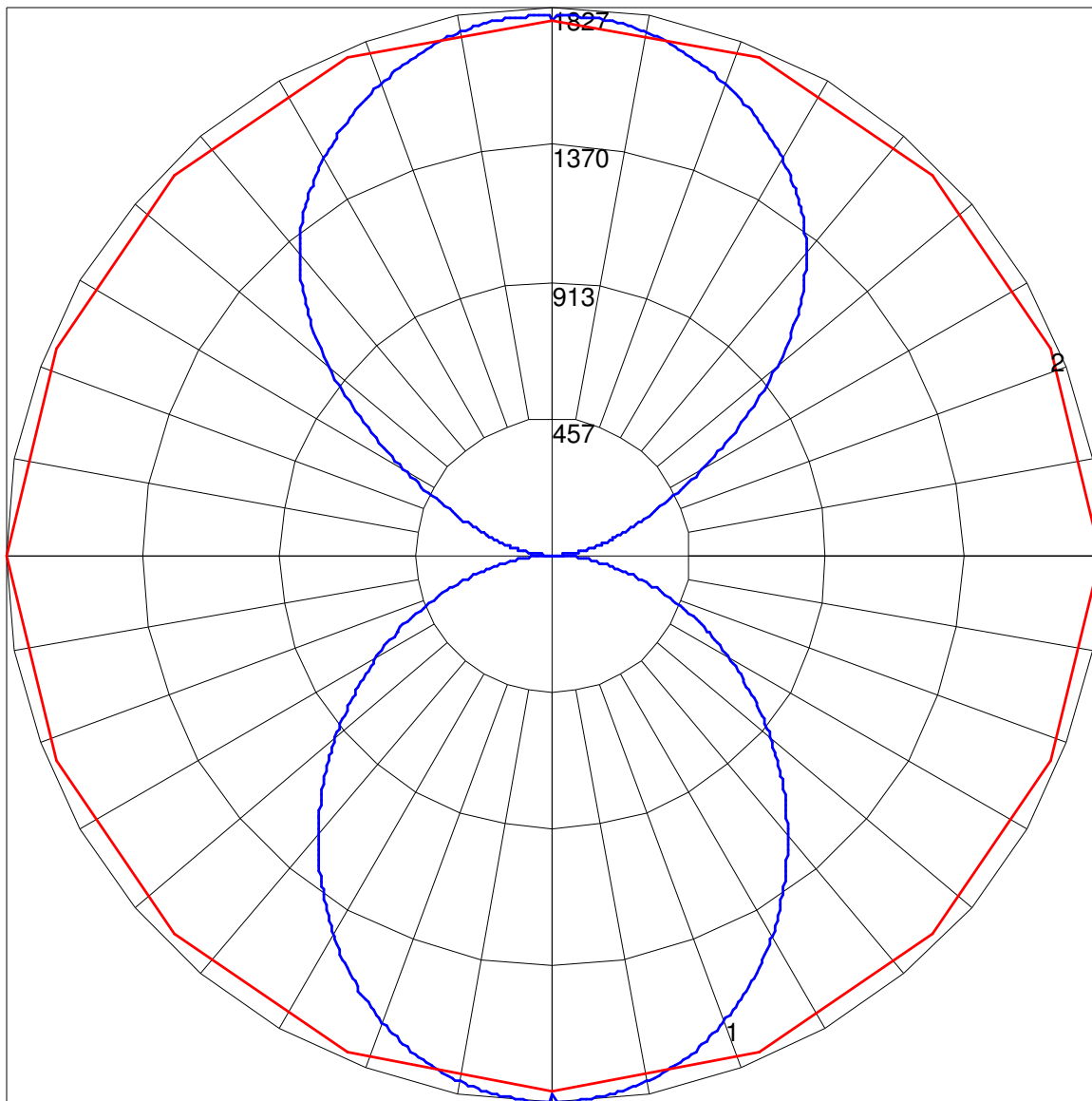
12H	4H	20.1	20.5	21.1	21.5	22.9	20.0	20.5	21.1	21.5	22.8
	6H	20.8	21.2	21.9	22.2	23.6	20.8	21.2	21.9	22.2	23.6
	8H	21.1	21.4	22.2	22.5	23.9	21.1	21.4	22.2	22.5	23.9

Maximum UGR = 24.0

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUDC-4-00-L8-827U-L15-827D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1826.702 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.)