

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-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-L8-827D-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	8000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	68.4
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	10885	10613	10492
55	10006	9764	9661
65	9229	9006	8909
75	7826	7822	7818
85	6112	6358	6542

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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	1579.432	1579.432	1579.432	1579.432	1579.432
0.5	1603.283	1580.757	1572.807	1576.120	1570.820
1.0	1603.283	1580.095	1572.807	1576.120	1570.820
1.5	1602.620	1579.432	1572.145	1576.120	1570.157
2.0	1601.958	1578.770	1571.482	1575.457	1570.157
2.5	1601.295	1578.107	1570.157	1574.795	1569.495
3.0	1599.970	1576.782	1569.495	1574.132	1568.170
3.5	1598.645	1575.457	1568.170	1572.807	1566.845
4.0	1597.320	1574.132	1566.845	1571.482	1565.520
4.5	1595.995	1572.145	1565.520	1570.157	1563.532
5.0	1594.670	1570.820	1563.532	1568.170	1561.544
5.5	1592.683	1568.832	1561.544	1566.182	1559.557
6.0	1590.695	1566.182	1559.557	1564.195	1556.907
6.5	1588.045	1564.195	1556.907	1561.544	1554.919
7.0	1586.057	1561.544	1554.919	1558.894	1552.269
7.5	1584.070	1558.894	1552.269	1556.244	1550.282
8.0	1580.757	1556.244	1548.957	1553.594	1547.632
8.5	1578.107	1552.932	1545.644	1550.282	1544.319
9.0	1574.795	1550.282	1542.994	1546.969	1541.007
9.5	1571.482	1546.969	1539.019	1542.994	1537.694
10.0	1568.170	1543.657	1535.706	1539.682	1533.719
10.5	1564.195	1539.682	1531.731	1535.706	1530.406
11.0	1560.882	1535.706	1527.756	1531.731	1525.769
11.5	1556.244	1531.731	1523.781	1527.756	1521.794
12.0	1552.269	1527.756	1519.806	1523.119	1517.156
12.5	1548.294	1523.119	1515.169	1518.481	1512.518
13.0	1543.657	1519.144	1510.531	1513.843	1507.881
13.5	1539.019	1513.843	1505.893	1508.543	1503.243
14.0	1534.381	1509.206	1500.593	1503.906	1498.606
14.5	1529.744	1504.568	1495.293	1498.606	1493.306
15.0	1525.106	1499.268	1489.993	1493.306	1488.005
15.5	1519.144	1494.631	1484.693	1487.343	1482.043
16.0	1512.518	1489.330	1478.730	1482.043	1476.743
16.5	1505.893	1483.368	1472.768	1476.080	1470.780
17.0	1499.931	1477.405	1466.805	1470.118	1464.817
17.5	1493.306	1470.780	1460.180	1463.492	1458.192
18.0	1486.680	1464.155	1453.555	1456.867	1451.567
18.5	1480.055	1457.530	1446.930	1449.580	1444.942
19.0	1473.430	1450.905	1440.967	1442.955	1436.992
19.5	1466.143	1444.280	1434.342	1435.004	1429.042
20.0	1459.517	1436.992	1428.379	1427.717	1421.092
20.5	1452.230	1430.367	1421.754	1419.767	1413.141
21.0	1444.942	1423.079	1414.466	1411.816	1404.529
21.5	1436.992	1415.791	1406.516	1403.866	1395.916
22.0	1429.704	1407.841	1397.904	1395.254	1387.966
22.5	1421.754	1399.891	1389.953	1386.641	1379.353
23.0	1413.804	1391.941	1382.003	1377.366	1370.741
23.5	1405.854	1383.991	1373.391	1368.753	1362.790
24.0	1397.241	1376.041	1365.440	1360.140	1354.178
24.5	1388.628	1367.428	1356.828	1351.528	1345.565
25.0	1380.678	1358.815	1348.215	1342.915	1336.952
25.5	1372.066	1350.203	1338.940	1334.302	1327.677
26.0	1362.790	1340.927	1330.327	1325.690	1319.064
26.5	1354.178	1332.315	1321.052	1317.077	1310.452

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27.0	1344.903	1323.040	1311.777	1308.464	1301.177
27.5	1335.627	1313.764	1303.164	1299.852	1292.564
28.0	1326.352	1303.827	1293.226	1290.576	1283.289
28.5	1316.414	1293.889	1283.951	1281.964	1274.014
29.0	1306.477	1284.614	1274.676	1272.689	1264.738
29.5	1297.202	1274.676	1265.401	1262.751	1256.126
30.0	1287.264	1264.738	1256.126	1253.476	1246.851
30.5	1277.326	1254.801	1246.188	1244.200	1237.575
31.0	1266.726	1245.525	1236.250	1234.263	1228.300
31.5	1256.788	1235.588	1226.313	1224.325	1218.362
32.0	1246.188	1224.988	1216.375	1213.725	1208.425
32.5	1235.588	1215.050	1206.437	1203.787	1197.825
33.0	1224.988	1205.112	1196.499	1193.849	1187.224
33.5	1215.050	1194.512	1185.899	1183.249	1177.287
34.0	1203.787	1183.912	1175.962	1172.649	1166.686
34.5	1193.187	1173.312	1164.699	1162.049	1155.424
35.0	1182.587	1163.374	1154.099	1151.449	1144.161
35.5	1171.324	1152.111	1143.498	1140.848	1132.898
36.0	1160.061	1141.511	1132.898	1129.586	1122.298
36.5	1149.461	1130.911	1122.298	1118.985	1111.698
37.0	1138.198	1119.648	1111.035	1107.723	1100.435
37.5	1126.936	1108.385	1100.435	1096.460	1089.835
38.0	1115.010	1097.122	1089.172	1085.197	1078.572
38.5	1103.748	1085.860	1077.910	1074.597	1067.309
39.0	1093.147	1074.597	1066.647	1063.334	1056.709
39.5	1081.222	1063.334	1056.047	1052.072	1044.784
40.0	1069.959	1051.409	1044.784	1040.809	1034.184
40.5	1058.034	1040.146	1033.521	1029.546	1022.921
41.0	1046.771	1028.221	1022.258	1017.621	1010.996
41.5	1034.846	1016.958	1010.333	1006.358	999.070
42.0	1023.583	1005.033	999.070	995.095	987.808
42.5	1012.321	993.770	987.808	983.170	976.545
43.0	1000.395	982.508	976.545	971.907	964.620
43.5	989.133	970.582	964.620	960.645	953.357
44.0	977.207	958.657	952.694	948.719	942.094
44.5	965.282	946.732	940.769	936.794	930.169
45.0	953.357	935.469	929.507	924.869	918.906
45.5	942.094	923.544	917.581	913.606	907.644
46.0	930.169	911.619	905.656	901.681	896.381
46.5	918.244	899.693	894.393	890.418	885.118
47.0	906.319	887.768	882.468	878.493	873.193
47.5	893.731	875.843	870.543	866.568	861.930
48.0	881.806	863.918	858.618	855.305	850.005
48.5	869.880	851.992	847.355	843.380	838.080
49.0	857.293	840.067	835.430	831.455	826.817
49.5	845.367	828.142	823.504	820.192	815.554
50.0	832.780	816.217	811.579	808.267	803.629
50.5	820.192	804.291	799.654	796.341	792.366
51.0	807.604	792.366	787.729	784.416	780.441
51.5	795.679	780.441	775.803	773.153	768.516
52.0	783.754	768.516	763.878	761.228	757.253
52.5	771.166	756.590	751.953	749.965	745.328
53.0	759.241	744.665	740.028	738.040	733.403
53.5	746.653	732.740	728.102	726.115	721.477
54.0	734.728	720.815	716.840	714.852	709.552
54.5	722.802	709.552	704.914	702.927	697.627

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55.0	710.877	698.289	693.652	691.664	686.364
55.5	699.614	686.364	681.726	679.739	675.101
56.0	687.027	674.439	669.801	668.476	663.176
56.5	675.101	663.176	658.207	656.750	651.516
57.0	663.839	651.251	646.481	644.891	639.922
57.5	652.178	639.723	634.821	633.363	628.195
58.0	640.518	628.328	623.094	621.769	616.601
58.5	628.792	616.866	611.566	610.374	605.471
59.0	617.264	605.339	599.972	598.846	594.142
59.5	606.067	593.678	588.180	587.385	582.946
60.0	594.606	582.084	576.519	575.857	571.550
60.5	583.277	570.755	565.257	564.263	560.023
61.0	572.147	559.426	554.060	552.934	548.760
61.5	560.221	548.230	542.930	541.671	537.630
62.0	548.495	536.702	531.402	530.475	526.235
62.5	536.503	526.036	520.537	519.808	515.436
63.0	524.976	516.628	512.189	511.858	508.280
63.5	513.315	506.359	502.848	502.119	498.409
64.0	506.293	496.355	493.175	491.718	487.477
64.5	495.361	485.689	482.244	480.919	476.944
65.0	483.105	474.293	471.445	470.186	466.343
65.5	470.583	462.766	460.182	459.586	455.677
66.0	458.526	451.503	449.184	448.919	444.745
66.5	446.600	439.975	437.988	437.988	434.278
67.0	434.808	428.514	426.924	427.122	423.744
67.5	423.214	417.251	415.794	416.191	412.878
68.0	411.487	405.988	404.663	405.193	401.748
68.5	399.694	394.527	393.467	394.196	390.817
69.0	387.504	382.999	382.204	382.602	379.488
69.5	375.645	371.670	370.743	371.206	368.358
70.0	363.919	360.209	359.546	359.745	357.227
70.5	352.391	348.681	348.217	348.416	346.031
71.0	340.598	337.219	337.087	337.352	334.768
71.5	328.805	325.758	326.023	326.222	323.969
72.0	317.344	314.230	314.760	315.025	313.104
72.5	305.883	302.901	303.763	304.027	302.437
73.0	294.554	291.837	293.030	293.361	291.970
73.5	283.556	280.906	282.297	282.893	281.370
74.0	272.691	269.974	271.697	272.161	271.167
74.5	261.825	259.242	261.163	261.627	260.898
75.0	250.894	248.575	250.761	251.225	250.629
75.5	240.095	237.909	240.426	241.022	240.360
76.0	229.163	227.640	230.224	230.886	230.356
76.5	218.828	217.503	220.087	220.816	220.352
77.0	208.758	207.301	210.149	210.812	210.083
77.5	198.357	197.363	200.212	200.742	200.013
78.0	188.220	187.425	190.274	191.069	190.340
78.5	178.150	177.752	180.469	181.396	180.800
79.0	168.477	168.080	170.862	171.989	171.525
79.5	158.804	158.606	161.388	162.581	162.183
80.0	149.264	149.331	151.914	153.571	153.041
80.5	139.658	140.254	142.904	144.494	144.097
81.0	130.449	131.376	133.960	135.617	135.352
81.5	121.571	122.565	125.215	126.871	126.673
82.0	113.290	113.952	116.669	118.391	118.192
82.5	105.008	105.605	108.255	109.977	109.845

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83.0	96.727	97.654	99.973	101.762	101.895
83.5	88.578	89.704	91.957	93.679	94.077
84.0	80.959	81.887	84.007	85.663	86.259
84.5	73.208	74.202	76.189	77.845	78.442
85.0	65.986	66.781	68.636	70.094	70.624
85.5	58.964	59.361	60.951	62.475	63.005
86.0	52.074	52.206	53.597	54.989	55.651
86.5	45.250	45.250	46.508	47.767	48.363
87.0	38.360	38.360	39.287	40.877	41.341
87.5	31.536	31.602	32.463	34.053	34.649
88.0	25.043	24.977	25.838	27.561	28.223
88.5	18.815	18.418	19.544	21.068	21.995
89.0	12.190	11.991	13.515	14.973	15.967
89.5	5.631	6.691	8.083	9.209	9.540
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.064	2.142	1.977	1.922	2.087
91.0	8.952	4.723	3.844	3.789	3.735
91.5	14.389	9.611	5.712	5.657	5.602
92.0	19.881	15.982	8.238	7.359	7.359
92.5	25.593	22.572	12.741	9.227	9.062
93.0	31.524	28.888	18.014	12.247	11.039
93.5	37.510	34.929	23.671	16.531	14.389
94.0	43.387	40.861	29.931	21.639	18.947
94.5	49.428	46.792	36.467	26.911	23.890
95.0	55.359	52.888	42.893	32.293	28.778
95.5	61.291	58.600	49.153	37.840	33.941
96.0	66.948	64.421	55.304	43.607	39.213
96.5	72.659	70.243	61.456	49.483	44.650
97.0	78.206	75.954	67.552	55.359	50.417
97.5	83.918	81.721	73.703	61.346	56.183
98.0	89.575	87.378	79.689	67.277	62.005
98.5	95.231	93.089	85.456	73.318	67.826
99.0	100.998	98.966	91.332	79.085	73.703
99.5	106.820	104.787	97.263	84.851	79.469
100.0	112.531	110.664	103.195	90.783	85.126
100.5	118.463	116.540	109.126	96.934	90.838
101.0	124.559	122.417	115.167	103.140	97.044
101.5	130.765	128.403	121.318	109.346	103.469
102.0	136.806	134.609	127.469	115.552	109.840
102.5	143.122	140.760	133.840	121.758	116.156
103.0	149.602	147.131	140.156	127.909	122.582
103.5	156.083	153.611	146.856	134.499	128.952
104.0	162.728	160.147	153.666	141.309	135.598
104.5	169.593	166.957	160.476	148.284	142.243
105.0	176.623	173.932	167.232	155.149	148.998
105.5	183.817	181.017	174.206	162.069	155.698
106.0	191.122	188.156	181.291	169.099	162.399
106.5	198.481	195.515	188.705	176.184	169.154
107.0	206.335	203.204	196.614	183.708	176.513
107.5	214.463	211.113	204.632	191.671	184.476
108.0	222.536	219.241	212.815	200.293	192.660
108.5	231.049	227.534	220.998	208.916	201.117
109.0	239.781	235.991	229.401	217.648	209.685
109.5	248.733	244.779	238.243	226.326	218.362
110.0	258.289	253.786	247.305	235.223	227.424
110.5	268.065	263.012	256.587	244.779	236.815

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111.0	277.950	272.678	266.198	254.719	246.262
111.5	288.056	282.619	275.973	264.825	255.982
112.0	298.545	292.834	285.694	274.930	265.264
112.5	309.090	303.323	295.525	284.980	275.095
113.0	320.129	314.143	305.905	295.360	285.365
113.5	331.497	325.456	316.889	306.564	296.404
114.0	343.031	336.989	328.532	318.481	308.651
114.5	354.948	348.907	340.395	330.893	321.667
115.0	367.031	361.154	352.697	343.415	334.848
115.5	379.662	373.511	365.328	355.882	347.864
116.0	392.404	386.363	378.399	369.008	361.099
116.5	405.859	399.543	391.910	382.463	375.214
117.0	419.864	412.999	405.530	396.962	389.768
117.5	430.189	423.489	417.997	410.308	404.541
118.0	443.370	435.736	430.793	424.093	417.667
118.5	458.692	450.344	443.864	436.889	429.475
119.0	473.685	464.734	458.692	451.388	442.601
119.5	488.843	480.056	474.399	466.107	457.319
120.0	504.496	495.928	490.162	482.198	472.862
120.5	520.038	512.020	506.418	499.278	489.448
121.0	536.349	528.441	522.784	516.303	507.077
121.5	552.496	544.697	539.095	533.548	524.322
122.0	569.521	561.283	556.340	550.848	541.622
122.5	585.997	577.759	573.365	567.873	557.988
123.0	603.022	595.333	590.940	586.546	576.111
123.5	620.597	612.908	609.613	605.219	594.784
124.0	638.171	631.031	627.736	623.892	614.006
124.5	655.745	648.606	645.860	642.015	632.679
125.0	673.320	666.180	663.434	660.139	650.803
125.5	691.444	684.304	681.558	678.263	668.377
126.0	709.018	701.878	700.231	696.386	685.952
126.5	726.592	719.453	718.904	715.608	704.624
127.0	744.716	737.576	737.576	734.830	724.396
127.5	762.840	755.151	755.151	753.503	744.167
128.0	780.414	772.725	773.274	772.176	762.840
128.5	797.988	789.750	790.849	790.849	780.963
129.0	815.563	806.776	808.423	808.972	799.636
129.5	833.137	824.350	826.547	827.645	818.858
130.0	850.712	841.924	844.670	846.318	839.178
130.5	868.286	858.950	863.343	864.442	858.400
131.0	885.861	875.975	880.918	882.016	875.975
131.5	902.337	892.451	898.492	898.492	893.000
132.0	919.362	908.927	915.517	916.067	909.476
132.5	935.838	925.952	932.543	933.092	925.952
133.0	952.314	942.977	949.019	950.117	941.879
133.5	968.790	959.453	966.044	967.142	958.904
134.0	985.266	975.380	981.971	983.618	975.380
134.5	1000.094	991.307	997.348	998.447	991.307
135.0	1014.923	1006.685	1012.177	1013.275	1005.586
135.5	1029.202	1022.611	1027.005	1027.554	1019.865
136.0	1043.481	1037.440	1040.735	1042.383	1034.694
136.5	1058.309	1051.719	1054.465	1057.211	1050.071
137.0	1072.039	1065.998	1068.744	1070.941	1064.351
137.5	1085.770	1079.179	1081.925	1083.573	1076.982
138.0	1098.950	1092.360	1094.557	1095.655	1089.065
138.5	1112.131	1104.992	1107.188	1107.738	1100.598

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1124.763	1117.623	1119.820	1119.820	1112.131
139.5	1137.394	1130.255	1131.902	1131.353	1123.115
140.0	1149.477	1141.788	1143.985	1143.436	1135.198
140.5	1161.010	1152.772	1154.969	1154.420	1145.632
141.0	1172.543	1164.305	1165.953	1164.854	1156.067
141.5	1182.978	1174.740	1176.937	1175.289	1165.404
142.0	1193.962	1185.724	1187.372	1185.175	1175.289
142.5	1204.397	1196.159	1197.806	1195.610	1184.626
143.0	1214.832	1206.044	1207.692	1205.495	1194.511
143.5	1224.717	1216.479	1217.578	1215.381	1203.848
144.0	1234.054	1226.365	1226.914	1224.168	1212.635
144.5	1243.390	1235.701	1236.250	1232.955	1221.422
145.0	1252.177	1245.038	1245.038	1241.193	1229.660
145.5	1261.514	1254.374	1253.825	1250.530	1238.447
146.0	1270.301	1263.161	1262.612	1258.768	1247.234
146.5	1279.088	1271.948	1270.850	1267.555	1256.022
147.0	1287.326	1280.736	1278.539	1276.342	1264.809
147.5	1295.564	1288.974	1286.777	1284.580	1273.047
148.0	1303.802	1297.212	1293.917	1292.269	1281.834
148.5	1312.040	1305.450	1301.056	1299.958	1290.621
149.0	1319.729	1313.688	1308.196	1307.647	1299.409
149.5	1327.418	1321.377	1314.786	1315.335	1307.647
150.0	1335.107	1329.065	1321.926	1322.475	1315.335
150.5	1342.795	1336.754	1328.516	1329.065	1323.024
151.0	1349.935	1343.894	1335.107	1335.656	1330.164
151.5	1357.624	1351.033	1342.246	1342.246	1336.754
152.0	1364.763	1358.173	1348.837	1348.287	1343.345
152.5	1371.903	1364.763	1355.427	1354.878	1349.386
153.0	1379.043	1371.354	1362.017	1361.468	1354.878
153.5	1385.633	1377.944	1368.608	1368.059	1359.821
154.0	1392.223	1384.535	1375.747	1374.649	1365.313
154.5	1399.363	1390.576	1382.338	1380.690	1370.805
155.0	1405.953	1396.617	1388.928	1387.281	1376.846
155.5	1411.995	1402.109	1395.519	1393.871	1382.887
156.0	1418.036	1408.150	1402.658	1399.912	1388.928
156.5	1424.077	1414.191	1409.249	1406.503	1394.969
157.0	1430.118	1420.233	1415.839	1413.093	1401.011
157.5	1435.610	1425.725	1421.880	1419.134	1407.052
158.0	1441.102	1431.217	1427.921	1425.175	1413.093
158.5	1447.143	1437.258	1433.963	1431.217	1419.683
159.0	1452.086	1442.750	1439.455	1437.258	1425.725
159.5	1457.578	1448.242	1444.947	1443.299	1431.766
160.0	1462.521	1453.185	1450.439	1448.791	1437.807
160.5	1467.464	1458.127	1455.381	1454.283	1443.848
161.0	1472.407	1463.070	1460.324	1459.775	1449.889
161.5	1477.350	1468.562	1464.718	1465.267	1455.931
162.0	1482.842	1473.505	1469.112	1470.759	1461.423
162.5	1487.784	1478.448	1473.505	1475.702	1466.365
163.0	1492.727	1483.391	1477.899	1480.645	1471.308
163.5	1497.670	1487.784	1482.292	1485.588	1475.702
164.0	1502.613	1492.178	1486.137	1489.981	1480.096
164.5	1506.457	1496.572	1489.981	1494.375	1484.489
165.0	1510.851	1500.965	1493.826	1498.768	1488.334
165.5	1515.244	1504.810	1497.670	1502.613	1492.178
166.0	1519.638	1508.654	1501.514	1506.457	1495.473
166.5	1524.032	1512.498	1505.359	1509.752	1499.318

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1527.876	1515.794	1508.654	1513.048	1502.613
167.5	1531.720	1519.089	1512.498	1516.343	1506.457
168.0	1535.565	1522.384	1515.794	1519.638	1509.752
168.5	1539.409	1525.679	1519.089	1522.933	1513.597
169.0	1542.704	1528.425	1522.384	1525.679	1516.892
169.5	1545.450	1531.171	1525.130	1528.425	1520.187
170.0	1548.196	1533.917	1527.876	1531.171	1524.032
170.5	1550.942	1536.663	1530.073	1533.917	1526.778
171.0	1553.688	1538.860	1532.270	1536.663	1529.524
171.5	1555.885	1541.057	1534.466	1539.409	1532.270
172.0	1558.082	1543.254	1536.114	1541.606	1534.466
172.5	1560.279	1545.450	1537.762	1543.254	1536.114
173.0	1562.476	1547.647	1539.409	1545.450	1537.212
173.5	1564.123	1549.295	1541.057	1546.549	1538.311
174.0	1565.771	1550.942	1542.704	1547.647	1538.860
174.5	1566.869	1552.041	1543.803	1548.746	1539.409
175.0	1567.968	1553.688	1544.901	1549.295	1539.409
175.5	1569.066	1554.787	1546.549	1549.844	1539.958
176.0	1570.164	1555.885	1547.647	1549.844	1539.958
176.5	1570.714	1556.984	1548.196	1550.393	1539.958
177.0	1571.263	1558.082	1549.295	1550.393	1539.409
177.5	1572.361	1559.180	1550.393	1550.393	1539.409
178.0	1572.910	1559.180	1550.942	1550.393	1539.958
178.5	1572.910	1559.730	1551.492	1550.393	1539.958
179.0	1573.460	1560.279	1551.492	1550.393	1539.958
179.5	1574.009	1560.279	1552.041	1550.393	1539.958
180.0	1554.787	1554.787	1554.787	1554.787	1554.787



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	570.82	N.A.	7.10
0-30	1193.38	N.A.	14.90
0-40	1917.18	N.A.	24.00
0-60	3257.73	N.A.	40.70
0-80	3989.45	N.A.	49.90
0-90	4066.77	N.A.	50.80
10-90	3917.77	N.A.	49.00
20-40	1346.37	N.A.	16.80
20-50	2064.89	N.A.	25.80
40-70	1806.43	N.A.	22.60
60-80	731.72	N.A.	9.10
70-80	265.84	N.A.	3.30
80-90	77.32	N.A.	1.00
90-110	225.01	N.A.	2.80
90-120	577.61	N.A.	7.20
90-130	1170.14	N.A.	14.60
90-150	2721.65	N.A.	34.00
90-180	3933.51	N.A.	49.20
110-180	3708.5	N.A.	46.40
0-180	8000.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.99
10-20	421.82
20-30	622.56
30-40	723.80
40-50	718.52
50-60	622.02
60-70	465.88
70-80	265.84
80-90	77.32
90-100	48.53
100-110	176.47
110-120	352.60
120-130	592.53
130-140	774.79
140-150	776.73
150-160	641.61
160-170	422.80
170-180	147.44

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-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-L8-827D-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	16.1	17.0	17.1	18.0	19.2	16.0	16.9	17.0	17.9	19.1
	3H	17.9	18.7	18.9	19.7	20.9	17.8	18.6	18.8	19.6	20.8
	4H	18.5	19.3	19.5	20.2	21.5	18.4	19.2	19.4	20.2	21.4
	6H	18.9	19.6	19.9	20.6	21.9	18.9	19.6	19.9	20.6	21.9
	8H	19.1	19.7	20.1	20.7	22.0	19.0	19.7	20.0	20.7	22.0
	12H	19.2	19.8	20.2	20.8	22.1	19.1	19.8	20.1	20.8	22.1

### UGR Viewed Endwise

4H	2H	16.7	17.4	17.6	18.4	19.7	16.6	17.3	17.6	18.3	19.6
	3H	18.6	19.3	19.6	20.3	21.6	18.6	19.2	19.6	20.2	21.5
	4H	19.4	19.9	20.4	20.9	22.3	19.3	19.9	20.3	20.9	22.2
	6H	19.9	20.4	20.9	21.4	22.8	19.9	20.4	20.9	21.4	22.7
	8H	20.1	20.6	21.1	21.6	22.9	20.1	20.6	21.1	21.6	22.9
	12H	20.2	20.6	21.2	21.7	23.0	20.2	20.7	21.3	21.7	23.0

8H	4H	19.6	20.1	20.6	21.1	22.4	19.6	20.0	20.6	21.0	22.4
	6H	20.3	20.7	21.3	21.7	23.1	20.3	20.7	21.3	21.7	23.1
	8H	20.6	20.9	21.6	21.9	23.3	20.6	20.9	21.6	22.0	23.3
	12H	20.8	21.1	21.8	22.1	23.5	20.8	21.1	21.8	22.1	23.5

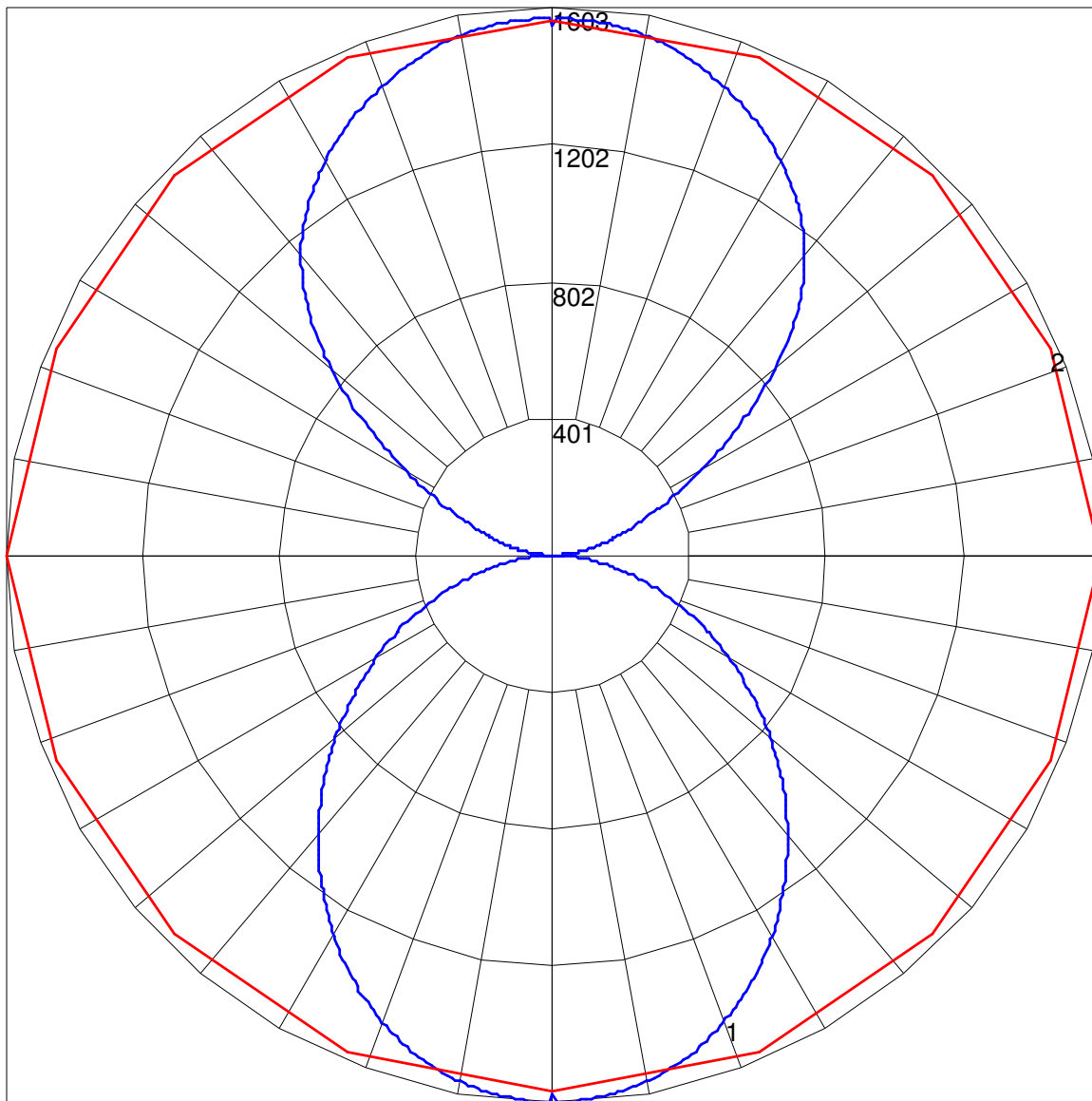
12H	4H	19.6	20.0	20.6	21.1	22.4	19.6	20.0	20.6	21.0	22.4
	6H	20.4	20.7	21.4	21.7	23.1	20.3	20.7	21.4	21.7	23.1
	8H	20.6	20.9	21.7	22.0	23.4	20.7	21.0	21.7	22.0	23.4

Maximum UGR = 23.5

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-827U-L8-827D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1603.283 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.)