

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-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] MX4UDC-4-00-L8-830U-L12-830D-F-F-DIM-UNV

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[BALLAST] OTI50/120-277/1A4 DIM-1 L G2 #57452

[OTHER] 24.8 C, 119.951 V, 0.4435 A, 52.6728 W, 0.990119 PF, 60.0072 H

[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	8239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	67.7
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	11176	10897	10772
55	10274	10025	9920
65	9476	9247	9147
75	8036	8031	8027
85	6276	6528	6717

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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	1621.692	1621.692	1621.692	1621.692	1621.692
0.5	1646.181	1623.053	1614.890	1618.291	1612.849
1.0	1646.181	1622.373	1614.890	1618.291	1612.849
1.5	1645.501	1621.692	1614.210	1618.291	1612.169
2.0	1644.821	1621.012	1613.530	1617.611	1612.169
2.5	1644.140	1620.332	1612.169	1616.931	1611.489
3.0	1642.780	1618.971	1611.489	1616.250	1610.128
3.5	1641.419	1617.611	1610.128	1614.890	1608.768
4.0	1640.059	1616.250	1608.768	1613.530	1607.407
4.5	1638.698	1614.210	1607.407	1612.169	1605.367
5.0	1637.338	1612.849	1605.367	1610.128	1603.326
5.5	1635.297	1610.809	1603.326	1608.088	1601.285
6.0	1633.256	1608.088	1601.285	1606.047	1598.564
6.5	1630.536	1606.047	1598.564	1603.326	1596.524
7.0	1628.495	1603.326	1596.524	1600.605	1593.803
7.5	1626.454	1600.605	1593.803	1597.884	1591.762
8.0	1623.053	1597.884	1590.401	1595.163	1589.041
8.5	1620.332	1594.483	1587.000	1591.762	1585.640
9.0	1616.931	1591.762	1584.279	1588.361	1582.238
9.5	1613.530	1588.361	1580.198	1584.279	1578.837
10.0	1610.128	1584.959	1576.797	1580.878	1574.756
10.5	1606.047	1580.878	1572.715	1576.797	1571.355
11.0	1602.646	1576.797	1568.634	1572.715	1566.593
11.5	1597.884	1572.715	1564.552	1568.634	1562.512
12.0	1593.803	1568.634	1560.471	1563.872	1557.750
12.5	1589.721	1563.872	1555.709	1559.110	1552.988
13.0	1584.959	1559.791	1550.947	1554.349	1548.226
13.5	1580.198	1554.349	1546.186	1548.907	1543.465
14.0	1575.436	1549.587	1540.744	1544.145	1538.703
14.5	1570.674	1544.825	1535.302	1538.703	1533.261
15.0	1565.913	1539.383	1529.860	1533.261	1527.819
15.5	1559.791	1534.622	1524.418	1527.139	1521.697
16.0	1552.988	1529.180	1518.296	1521.697	1516.255
16.5	1546.186	1523.058	1512.174	1515.575	1510.133
17.0	1540.064	1516.935	1506.052	1509.453	1504.011
17.5	1533.261	1510.133	1499.249	1502.650	1497.208
18.0	1526.459	1503.331	1492.447	1495.848	1490.406
18.5	1519.656	1496.528	1485.644	1488.365	1483.604
19.0	1512.854	1489.726	1479.522	1481.563	1475.441
19.5	1505.371	1482.923	1472.720	1473.400	1467.278
20.0	1498.569	1475.441	1466.598	1465.917	1459.115
20.5	1491.086	1468.638	1459.795	1457.755	1450.952
21.0	1483.604	1461.156	1452.313	1449.592	1442.109
21.5	1475.441	1453.673	1444.150	1441.429	1433.266
22.0	1467.958	1445.510	1435.307	1432.586	1425.103
22.5	1459.795	1437.347	1427.144	1423.743	1416.260
23.0	1451.632	1429.184	1418.981	1414.219	1407.417
23.5	1443.470	1421.022	1410.138	1405.376	1399.254
24.0	1434.626	1412.859	1401.975	1396.533	1390.411
24.5	1425.783	1404.016	1393.132	1387.690	1381.568
25.0	1417.620	1395.172	1384.289	1378.847	1372.725
25.5	1408.777	1386.329	1374.765	1370.004	1363.201
26.0	1399.254	1376.806	1365.922	1361.160	1354.358
26.5	1390.411	1367.963	1356.399	1352.317	1345.515

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27.0	1380.887	1358.439	1346.875	1343.474	1335.992
27.5	1371.364	1348.916	1338.032	1334.631	1327.148
28.0	1361.841	1338.713	1327.829	1325.108	1317.625
28.5	1351.637	1328.509	1318.305	1316.265	1308.102
29.0	1341.433	1318.986	1308.782	1306.741	1298.578
29.5	1331.910	1308.782	1299.259	1296.538	1289.735
30.0	1321.707	1298.578	1289.735	1287.014	1280.212
30.5	1311.503	1288.375	1279.532	1277.491	1270.689
31.0	1300.619	1278.851	1269.328	1267.287	1261.165
31.5	1290.415	1268.648	1259.124	1257.084	1250.962
32.0	1279.532	1257.764	1248.921	1246.200	1240.758
32.5	1268.648	1247.560	1238.717	1235.996	1229.874
33.0	1257.764	1237.357	1228.514	1225.793	1218.990
33.5	1247.560	1226.473	1217.630	1214.909	1208.787
34.0	1235.996	1215.589	1207.426	1204.025	1197.903
34.5	1225.112	1204.705	1195.862	1193.141	1186.339
35.0	1214.229	1194.502	1184.978	1182.257	1174.775
35.5	1202.665	1182.938	1174.094	1171.373	1163.211
36.0	1191.100	1172.054	1163.211	1159.809	1152.327
36.5	1180.217	1161.170	1152.327	1148.926	1141.443
37.0	1168.653	1149.606	1140.763	1137.361	1129.879
37.5	1157.088	1138.042	1129.879	1125.797	1118.995
38.0	1144.844	1126.478	1118.315	1114.233	1107.431
38.5	1133.280	1114.914	1106.751	1103.349	1095.867
39.0	1122.396	1103.349	1095.187	1091.785	1084.983
39.5	1110.152	1091.785	1084.303	1080.221	1072.739
40.0	1098.588	1079.541	1072.739	1068.657	1061.855
40.5	1086.343	1067.977	1061.175	1057.093	1050.291
41.0	1074.779	1055.733	1049.610	1044.849	1038.046
41.5	1062.535	1044.169	1037.366	1033.285	1025.802
42.0	1050.971	1031.924	1025.802	1021.721	1014.238
42.5	1039.407	1020.360	1014.238	1009.476	1002.674
43.0	1027.163	1008.796	1002.674	997.912	990.430
43.5	1015.598	996.552	990.430	986.348	978.866
44.0	1003.354	984.307	978.185	974.104	967.301
44.5	991.110	972.063	965.941	961.860	955.057
45.0	978.866	960.499	954.377	949.615	943.493
45.5	967.301	948.255	942.133	938.051	931.929
46.0	955.057	936.010	929.888	925.807	920.365
46.5	942.813	923.766	918.324	914.243	908.801
47.0	930.568	911.522	906.080	901.998	896.556
47.5	917.644	899.277	893.836	889.754	884.992
48.0	905.400	887.033	881.591	878.190	872.748
48.5	893.155	874.789	870.027	865.946	860.504
49.0	880.231	862.544	857.783	853.701	848.940
49.5	867.986	850.300	845.538	842.137	837.376
50.0	855.062	838.056	833.294	829.893	825.131
50.5	842.137	825.811	821.050	817.649	813.567
51.0	829.213	813.567	808.805	805.404	801.323
51.5	816.968	801.323	796.561	793.840	789.079
52.0	804.724	789.079	784.317	781.596	777.514
52.5	791.799	776.834	772.073	770.032	765.270
53.0	779.555	764.590	759.828	757.787	753.026
53.5	766.631	752.346	747.584	745.543	740.781
54.0	754.386	740.101	736.020	733.979	728.537
54.5	742.142	728.537	723.775	721.735	716.293

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55.0	729.898	716.973	712.211	710.171	704.729
55.5	718.334	704.729	699.967	697.926	693.165
56.0	705.409	692.484	687.723	686.362	680.920
56.5	693.165	680.920	675.819	674.322	668.948
57.0	681.601	668.676	663.778	662.146	657.044
57.5	669.628	656.840	651.806	650.310	645.004
58.0	657.656	645.140	639.766	638.405	633.099
58.5	645.616	633.372	627.930	626.705	621.671
59.0	633.780	621.535	616.025	614.869	610.039
59.5	622.284	609.563	603.917	603.101	598.543
60.0	610.516	597.659	591.945	591.265	586.843
60.5	598.883	586.027	580.381	579.360	575.007
61.0	587.455	574.395	568.885	567.728	563.443
61.5	575.211	562.899	557.457	556.164	552.015
62.0	563.171	551.062	545.621	544.668	540.315
62.5	550.858	540.111	534.465	533.716	529.227
63.0	539.022	530.451	525.894	525.554	521.880
63.5	527.050	519.908	516.302	515.554	511.745
64.0	519.840	509.636	506.371	504.874	500.521
64.5	508.616	498.684	495.147	493.786	489.705
65.0	496.031	486.984	484.059	482.766	478.821
65.5	483.175	475.148	472.495	471.883	467.869
66.0	470.794	463.584	461.203	460.931	456.645
66.5	458.550	451.747	449.707	449.707	445.897
67.0	446.442	439.979	438.347	438.551	435.082
67.5	434.537	428.415	426.919	427.327	423.926
68.0	422.497	416.851	415.491	416.035	412.498
68.5	410.389	405.083	403.995	404.743	401.274
69.0	397.872	393.247	392.431	392.839	389.641
69.5	385.696	381.615	380.662	381.139	378.214
70.0	373.656	369.847	369.166	369.370	366.786
70.5	361.820	358.010	357.534	357.738	355.289
71.0	349.711	346.242	346.106	346.378	343.725
71.5	337.603	334.474	334.746	334.950	332.637
72.0	325.835	322.638	323.182	323.454	321.481
72.5	314.067	311.006	311.890	312.162	310.530
73.0	302.435	299.646	300.870	301.210	299.782
73.5	291.143	288.422	289.850	290.463	288.898
74.0	279.987	277.198	278.966	279.443	278.422
74.5	268.831	266.178	268.151	268.627	267.879
75.0	257.607	255.226	257.471	257.947	257.335
75.5	246.519	244.274	246.859	247.471	246.791
76.0	235.295	233.731	236.383	237.064	236.519
76.5	224.683	223.323	225.976	226.724	226.248
77.0	214.344	212.847	215.772	216.452	215.704
77.5	203.664	202.644	205.569	206.113	205.365
78.0	193.256	192.440	195.365	196.181	195.433
78.5	182.917	182.508	185.297	186.250	185.638
79.0	172.985	172.577	175.434	176.590	176.114
79.5	163.054	162.849	165.707	166.931	166.523
80.0	153.258	153.326	155.979	157.680	157.135
80.5	143.395	144.007	146.728	148.360	147.952
81.0	133.939	134.892	137.545	139.245	138.973
81.5	124.824	125.844	128.565	130.266	130.062
82.0	116.321	117.001	119.790	121.559	121.355
82.5	107.818	108.430	111.151	112.920	112.784

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83.0	99.315	100.267	102.648	104.485	104.621
83.5	90.948	92.104	94.417	96.186	96.594
84.0	83.125	84.078	86.254	87.955	88.567
84.5	75.167	76.187	78.228	79.928	80.540
85.0	67.752	68.568	70.473	71.969	72.514
85.5	60.541	60.950	62.582	64.147	64.691
86.0	53.467	53.603	55.031	56.460	57.140
86.5	46.460	46.460	47.753	49.045	49.658
87.0	39.386	39.386	40.338	41.971	42.447
87.5	32.379	32.447	33.332	34.964	35.577
88.0	25.713	25.645	26.529	28.298	28.978
88.5	19.319	18.911	20.067	21.632	22.584
89.0	12.516	12.312	13.877	15.373	16.394
89.5	5.782	6.870	8.299	9.455	9.795
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.199	2.213	2.043	1.986	2.156
91.0	9.248	4.879	3.972	3.915	3.858
91.5	14.865	9.929	5.901	5.844	5.787
92.0	20.539	16.511	8.511	7.603	7.603
92.5	26.440	23.319	13.163	9.532	9.362
93.0	32.568	29.844	18.610	12.653	11.404
93.5	38.752	36.085	24.454	17.078	14.865
94.0	44.823	42.213	30.922	22.355	19.575
94.5	51.064	48.341	37.674	27.802	24.681
95.0	57.192	54.639	44.313	33.362	29.731
95.5	63.320	60.540	50.781	39.093	35.064
96.0	69.164	66.554	57.135	45.050	40.511
96.5	75.065	72.568	63.490	51.121	46.128
97.0	80.795	78.469	69.788	57.192	52.086
97.5	86.696	84.426	76.143	63.377	58.043
98.0	92.540	90.270	82.327	69.504	64.057
98.5	98.384	96.171	88.285	75.745	70.072
99.0	104.342	102.242	94.356	81.703	76.143
99.5	110.356	108.256	100.483	87.660	82.100
100.0	116.257	114.327	106.611	93.788	87.944
100.5	122.384	120.398	112.739	100.143	93.845
101.0	128.682	126.469	118.980	106.554	100.256
101.5	135.094	132.654	125.335	112.966	106.895
102.0	141.335	139.065	131.689	119.377	113.476
102.5	147.860	145.420	138.271	125.789	120.001
103.0	154.555	152.002	144.796	132.143	126.640
103.5	161.250	158.697	151.718	138.952	133.221
104.0	168.115	165.449	158.753	145.987	140.087
104.5	175.208	172.484	165.789	153.193	146.952
105.0	182.470	179.690	172.768	160.285	153.931
105.5	189.903	187.009	179.974	167.434	160.853
106.0	197.449	194.385	187.293	174.697	167.775
106.5	205.052	201.988	194.952	182.016	174.754
107.0	213.165	209.931	203.123	189.789	182.357
107.5	221.563	218.102	211.406	198.016	190.584
108.0	229.903	226.499	219.860	206.924	199.038
108.5	238.698	235.066	228.314	215.832	207.775
109.0	247.719	243.804	236.995	224.853	216.626
109.5	256.967	252.882	246.130	233.818	225.591
110.0	266.840	262.187	255.492	243.010	234.953
110.5	276.939	271.719	265.081	252.882	244.655

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111.0	287.152	281.705	275.010	263.152	254.414
111.5	297.592	291.975	285.109	273.592	264.457
112.0	308.429	302.528	295.152	284.031	274.045
112.5	319.322	313.365	305.308	294.414	284.202
113.0	330.727	324.542	316.032	305.138	294.812
113.5	342.472	336.230	327.379	316.713	306.216
114.0	354.387	348.145	339.408	329.025	318.869
114.5	366.699	360.458	351.663	341.848	332.316
115.0	379.181	373.110	364.373	354.784	345.933
115.5	392.231	385.876	377.422	367.663	359.380
116.0	405.394	399.153	390.926	381.224	373.054
116.5	419.295	412.770	404.884	395.125	387.635
117.0	433.763	426.671	418.955	410.104	402.671
117.5	444.430	437.508	431.834	423.891	417.933
118.0	458.047	450.161	445.054	438.132	431.494
118.5	473.877	465.253	458.558	451.352	443.693
119.0	489.367	480.118	473.877	466.331	457.253
119.5	505.027	495.948	490.104	481.537	472.459
120.0	521.197	512.346	506.388	498.161	488.516
120.5	537.254	528.970	523.183	515.807	505.651
121.0	554.105	545.935	540.091	533.396	523.864
121.5	570.786	562.729	556.942	551.211	541.679
122.0	588.375	579.864	574.758	569.084	559.552
122.5	605.396	596.886	592.347	586.673	576.460
123.0	622.985	615.042	610.503	605.964	595.184
123.5	641.141	633.198	629.794	625.255	614.474
124.0	659.298	651.922	648.517	644.546	634.333
124.5	677.454	670.078	667.241	663.269	653.624
125.0	695.610	688.234	685.397	681.993	672.347
125.5	714.334	706.958	704.121	700.717	690.504
126.0	732.490	725.114	723.412	719.440	708.660
126.5	750.646	743.270	742.703	739.298	727.951
127.0	769.370	761.994	761.994	759.157	748.377
127.5	788.093	780.150	780.150	778.448	768.802
128.0	806.250	798.306	798.874	797.739	788.093
128.5	824.406	815.895	817.030	817.030	806.817
129.0	842.562	833.484	835.186	835.753	826.108
129.5	860.718	851.640	853.910	855.044	845.966
130.0	878.874	869.796	872.633	874.335	866.959
130.5	897.031	887.385	891.924	893.059	886.818
131.0	915.187	904.974	910.080	911.215	904.974
131.5	932.208	921.995	928.237	928.237	922.563
132.0	949.797	939.017	945.825	946.393	939.584
132.5	966.819	956.606	963.414	963.982	956.606
133.0	983.840	974.195	980.436	981.571	973.060
133.5	1000.862	991.216	998.025	999.159	990.649
134.0	1017.883	1007.670	1014.479	1016.181	1007.670
134.5	1033.202	1024.124	1030.365	1031.500	1024.124
135.0	1048.522	1040.011	1045.685	1046.819	1038.876
135.5	1063.274	1056.465	1061.004	1061.571	1053.628
136.0	1078.025	1071.784	1075.189	1076.891	1068.947
136.5	1093.345	1086.536	1089.373	1092.210	1084.834
137.0	1107.529	1101.288	1104.125	1106.395	1099.586
137.5	1121.714	1114.905	1117.742	1119.444	1112.636
138.0	1135.331	1128.522	1130.792	1131.927	1125.118
138.5	1148.948	1141.572	1143.842	1144.409	1137.033

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

139.0	1161.998	1154.622	1156.892	1156.892	1148.948
139.5	1175.048	1167.672	1169.374	1168.807	1160.296
140.0	1187.530	1179.587	1181.856	1181.289	1172.778
140.5	1199.445	1190.934	1193.204	1192.637	1183.558
141.0	1211.360	1202.849	1204.552	1203.417	1194.339
141.5	1222.140	1213.630	1215.899	1214.197	1203.984
142.0	1233.488	1224.977	1226.679	1224.410	1214.197
142.5	1244.268	1235.758	1237.460	1235.190	1223.843
143.0	1255.049	1245.970	1247.673	1245.403	1234.055
143.5	1265.261	1256.751	1257.885	1255.616	1243.701
144.0	1274.907	1266.964	1267.531	1264.694	1252.779
144.5	1284.552	1276.609	1277.176	1273.772	1261.857
145.0	1293.631	1286.255	1286.255	1282.283	1270.368
145.5	1303.276	1295.900	1295.333	1291.928	1279.446
146.0	1312.354	1304.978	1304.411	1300.439	1288.524
146.5	1321.432	1314.056	1312.922	1309.517	1297.602
147.0	1329.943	1323.134	1320.865	1318.595	1306.680
147.5	1338.454	1331.645	1329.376	1327.106	1315.191
148.0	1346.964	1340.156	1336.752	1335.049	1324.269
148.5	1355.475	1348.667	1344.128	1342.993	1333.347
149.0	1363.418	1357.177	1351.503	1350.936	1342.425
149.5	1371.362	1365.121	1358.312	1358.879	1350.936
150.0	1379.305	1373.064	1365.688	1366.255	1358.879
150.5	1387.249	1381.007	1372.497	1373.064	1366.823
151.0	1394.624	1388.383	1379.305	1379.873	1374.199
151.5	1402.568	1395.759	1386.681	1386.681	1381.007
152.0	1409.944	1403.135	1393.490	1392.922	1387.816
152.5	1417.320	1409.944	1400.298	1399.731	1394.057
153.0	1424.696	1416.752	1407.107	1406.540	1399.731
153.5	1431.504	1423.561	1413.915	1413.348	1404.837
154.0	1438.313	1430.370	1421.291	1420.157	1410.511
154.5	1445.689	1436.611	1428.100	1426.398	1416.185
155.0	1452.497	1442.852	1434.909	1433.206	1422.426
155.5	1458.739	1448.526	1441.717	1440.015	1428.667
156.0	1464.980	1454.767	1449.093	1446.256	1434.909
156.5	1471.221	1461.008	1455.902	1453.065	1441.150
157.0	1477.462	1467.249	1462.710	1459.873	1447.391
157.5	1483.136	1472.923	1468.952	1466.115	1453.632
158.0	1488.810	1478.597	1475.193	1472.356	1459.873
158.5	1495.051	1484.838	1481.434	1478.597	1466.682
159.0	1500.158	1490.512	1487.108	1484.838	1472.923
159.5	1505.831	1496.186	1492.782	1491.079	1479.164
160.0	1510.938	1501.292	1498.455	1496.753	1485.406
160.5	1516.044	1506.399	1503.562	1502.427	1491.647
161.0	1521.151	1511.505	1508.668	1508.101	1497.888
161.5	1526.257	1517.179	1513.207	1513.775	1504.129
162.0	1531.931	1522.285	1517.746	1519.448	1509.803
162.5	1537.037	1527.392	1522.285	1524.555	1514.909
163.0	1542.144	1532.498	1526.824	1529.661	1520.016
163.5	1547.250	1537.037	1531.364	1534.768	1524.555
164.0	1552.357	1541.576	1535.335	1539.307	1529.094
164.5	1556.328	1546.115	1539.307	1543.846	1533.633
165.0	1560.867	1550.654	1543.279	1548.385	1537.605
165.5	1565.406	1554.626	1547.250	1552.357	1541.576
166.0	1569.945	1558.598	1551.222	1556.328	1544.981
166.5	1574.485	1562.570	1555.194	1559.733	1548.952

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-F-F-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

167.0	1578.456	1565.974	1558.598	1563.137	1552.357
167.5	1582.428	1569.378	1562.570	1566.541	1556.328
168.0	1586.400	1572.782	1565.974	1569.945	1559.733
168.5	1590.371	1576.187	1569.378	1573.350	1563.704
169.0	1593.776	1579.024	1572.782	1576.187	1567.109
169.5	1596.612	1581.860	1575.619	1579.024	1570.513
170.0	1599.449	1584.697	1578.456	1581.860	1574.485
170.5	1602.286	1587.534	1580.726	1584.697	1577.321
171.0	1605.123	1589.804	1582.995	1587.534	1580.158
171.5	1607.393	1592.073	1585.265	1590.371	1582.995
172.0	1609.662	1594.343	1586.967	1592.641	1585.265
172.5	1611.932	1596.612	1588.669	1594.343	1586.967
173.0	1614.201	1598.882	1590.371	1596.612	1588.102
173.5	1615.903	1600.584	1592.073	1597.747	1589.236
174.0	1617.606	1602.286	1593.776	1598.882	1589.804
174.5	1618.740	1603.421	1594.910	1600.017	1590.371
175.0	1619.875	1605.123	1596.045	1600.584	1590.371
175.5	1621.010	1606.258	1597.747	1601.151	1590.939
176.0	1622.145	1607.393	1598.882	1601.151	1590.939
176.5	1622.712	1608.527	1599.449	1601.719	1590.939
177.0	1623.279	1609.662	1600.584	1601.719	1590.371
177.5	1624.414	1610.797	1601.719	1601.719	1590.371
178.0	1624.982	1610.797	1602.286	1601.719	1590.939
178.5	1624.982	1611.364	1602.854	1601.719	1590.939
179.0	1625.549	1611.932	1602.854	1601.719	1590.939
179.5	1626.116	1611.932	1603.421	1601.719	1590.939
180.0	1606.258	1606.258	1606.258	1606.258	1606.258



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-F-F-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	586.09	N.A.	7.10
0-30	1225.31	N.A.	14.90
0-40	1968.48	N.A.	23.90
0-60	3344.89	N.A.	40.60
0-80	4096.2	N.A.	49.70
0-90	4175.58	N.A.	50.70
10-90	4022.6	N.A.	48.80
20-40	1382.39	N.A.	16.80
20-50	2120.14	N.A.	25.70
40-70	1854.76	N.A.	22.50
60-80	751.30	N.A.	9.10
70-80	272.96	N.A.	3.30
80-90	79.38	N.A.	1.00
90-110	232.45	N.A.	2.80
90-120	596.73	N.A.	7.20
90-130	1208.88	N.A.	14.70
90-150	2811.75	N.A.	34.10
90-180	4063.72	N.A.	49.30
110-180	3831.27	N.A.	46.50
0-180	8239.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.98
10-20	433.11
20-30	639.22
30-40	743.17
40-50	737.75
50-60	638.67
60-70	478.35
70-80	272.96
80-90	79.38
90-100	50.14
100-110	182.32
110-120	364.27
120-130	612.15
130-140	800.44
140-150	802.44
150-160	662.85
160-170	436.79
170-180	152.32

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-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 : MX4UDC-4-00-L8-830U-L12-830D-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	16.2	17.1	17.2	18.1	19.3	UGR Viewed Endwise			
	3H	18.0	18.8	18.9	19.7	21.0	16.1	17.0	17.1	18.0
	4H	18.6	19.3	19.6	20.3	21.6	17.9	18.7	18.8	19.6
	6H	19.0	19.7	20.0	20.7	22.0	18.5	19.3	19.5	20.2
	8H	19.2	19.8	20.1	20.8	22.1	19.0	19.7	20.0	20.6
	12H	19.2	19.9	20.2	20.8	22.2	19.1	19.8	20.1	20.8

4H	2H	16.7	17.5	17.7	18.5	19.8	16.7	17.4	17.6	18.4	19.7
	3H	18.7	19.3	19.7	20.3	21.6	18.6	19.3	19.6	20.3	21.6
	4H	19.5	20.0	20.4	21.0	22.3	19.4	20.0	20.4	21.0	22.3
	6H	20.0	20.5	21.0	21.5	22.8	20.0	20.5	21.0	21.5	22.8
	8H	20.2	20.6	21.2	21.7	23.0	20.2	20.6	21.2	21.7	23.0
	12H	20.3	20.7	21.3	21.7	23.1	20.3	20.7	21.4	21.8	23.1

8H	4H	19.7	20.2	20.7	21.2	22.5	19.7	20.1	20.7	21.1	22.5
	6H	20.4	20.8	21.4	21.8	23.2	20.4	20.8	21.4	21.8	23.1
	8H	20.6	21.0	21.7	22.0	23.4	20.7	21.0	21.7	22.0	23.4
	12H	20.8	21.1	21.9	22.2	23.6	20.9	21.2	21.9	22.2	23.6

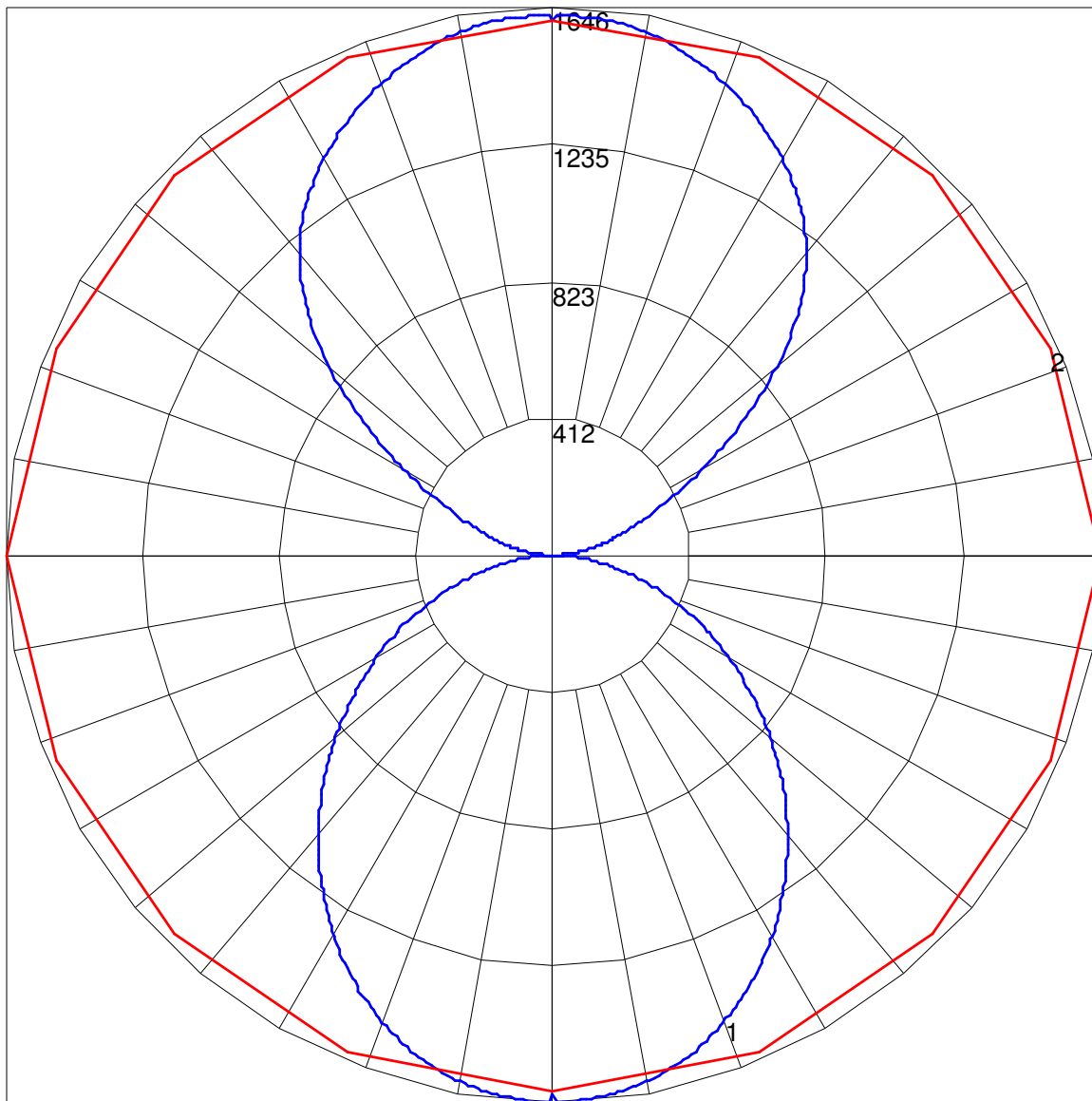
12H	4H	19.7	20.1	20.7	21.1	22.5	19.6	20.1	20.7	21.1	22.4
	6H	20.4	20.8	21.5	21.8	23.2	20.4	20.8	21.5	21.8	23.2
	8H	20.7	21.0	21.8	22.1	23.5	20.7	21.0	21.8	22.1	23.5

Maximum UGR = 23.6

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L12-830D-F-F-DIM-UNV\_.IES

## POLAR GRAPH



Maximum Candela = 1646.181 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.)