

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-827U-L12-827D-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] MX4UDC-4-00-L8-827U-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)

[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	8073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	10950	10677	10555
55	10066	9822	9719
65	9284	9060	8962
75	7873	7869	7865
85	6149	6396	6581

IES INDOOR REPORT

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

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1588.931	1588.931	1588.931	1588.931	1588.931
0.5	1612.925	1590.264	1582.266	1585.599	1580.267
1.0	1612.925	1589.598	1582.266	1585.599	1580.267
1.5	1612.259	1588.931	1581.600	1585.599	1579.600
2.0	1611.592	1588.265	1580.933	1584.932	1579.600
2.5	1610.926	1587.598	1579.600	1584.266	1578.934
3.0	1609.593	1586.265	1578.934	1583.599	1577.601
3.5	1608.260	1584.932	1577.601	1582.266	1576.268
4.0	1606.927	1583.599	1576.268	1580.933	1574.935
4.5	1605.594	1581.600	1574.935	1579.600	1572.935
5.0	1604.261	1580.267	1572.935	1577.601	1570.936
5.5	1602.261	1578.267	1570.936	1575.601	1568.936
6.0	1600.262	1575.601	1568.936	1573.602	1566.270
6.5	1597.596	1573.602	1566.270	1570.936	1564.271
7.0	1595.596	1570.936	1564.271	1568.270	1561.605
7.5	1593.597	1568.270	1561.605	1565.604	1559.605
8.0	1590.264	1565.604	1558.272	1562.938	1556.939
8.5	1587.598	1562.271	1554.940	1559.605	1553.607
9.0	1584.266	1559.605	1552.274	1556.273	1550.274
9.5	1580.933	1556.273	1548.275	1552.274	1546.942
10.0	1577.601	1552.940	1544.942	1548.941	1542.943
10.5	1573.602	1548.941	1540.943	1544.942	1539.610
11.0	1570.269	1544.942	1536.944	1540.943	1534.945
11.5	1565.604	1540.943	1532.945	1536.944	1530.946
12.0	1561.605	1536.944	1528.946	1532.279	1526.281
12.5	1557.606	1532.279	1524.281	1527.614	1521.615
13.0	1552.940	1528.280	1519.616	1522.948	1516.950
13.5	1548.275	1522.948	1514.950	1517.616	1512.284
14.0	1543.609	1518.283	1509.618	1512.951	1507.619
14.5	1538.944	1513.617	1504.286	1507.619	1502.287
15.0	1534.278	1508.285	1498.954	1502.287	1496.955
15.5	1528.280	1503.620	1493.622	1496.288	1490.956
16.0	1521.615	1498.288	1487.624	1490.956	1485.624
16.5	1514.950	1492.289	1481.625	1484.958	1479.626
17.0	1508.952	1486.291	1475.627	1478.959	1473.627
17.5	1502.287	1479.626	1468.962	1472.294	1466.962
18.0	1495.622	1472.961	1462.297	1465.629	1460.297
18.5	1488.957	1466.296	1455.632	1458.298	1453.632
19.0	1482.292	1459.631	1449.633	1451.633	1445.634
19.5	1474.960	1452.966	1442.968	1443.635	1437.636
20.0	1468.295	1445.634	1436.970	1436.303	1429.638
20.5	1460.964	1438.969	1430.305	1428.305	1421.640
21.0	1453.632	1431.638	1422.973	1420.307	1412.976
21.5	1445.634	1424.306	1414.975	1412.309	1404.311
22.0	1438.303	1416.308	1406.311	1403.645	1396.313
22.5	1430.305	1408.310	1398.313	1394.980	1387.649
23.0	1422.307	1400.312	1390.315	1385.649	1378.984
23.5	1414.309	1392.314	1381.650	1376.985	1370.986
24.0	1405.644	1384.316	1373.652	1368.320	1362.322
24.5	1396.980	1375.652	1364.988	1359.656	1353.658
25.0	1388.982	1366.987	1356.324	1350.992	1344.993
25.5	1380.317	1358.323	1346.993	1342.327	1335.662
26.0	1370.986	1348.992	1338.328	1333.663	1326.998
26.5	1362.322	1340.328	1328.997	1324.998	1318.333

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

27.0	1352.991	1330.997	1319.666	1316.334	1309.002
27.5	1343.660	1321.666	1311.002	1307.669	1300.338
28.0	1334.329	1311.668	1301.004	1298.338	1291.007
28.5	1324.332	1301.671	1291.673	1289.674	1281.676
29.0	1314.334	1292.340	1282.342	1280.343	1272.345
29.5	1305.003	1282.342	1273.011	1270.345	1263.680
30.0	1295.006	1272.345	1263.680	1261.014	1254.349
30.5	1285.008	1262.347	1253.683	1251.683	1245.018
31.0	1274.344	1253.016	1243.685	1241.686	1235.687
31.5	1264.347	1243.019	1233.688	1231.688	1225.690
32.0	1253.683	1232.355	1223.690	1221.024	1215.692
32.5	1243.019	1222.357	1213.693	1211.027	1205.028
33.0	1232.355	1212.360	1203.695	1201.029	1194.364
33.5	1222.357	1201.696	1193.031	1190.365	1184.367
34.0	1211.027	1191.032	1183.034	1179.702	1173.703
34.5	1200.363	1180.368	1171.704	1169.038	1162.373
35.0	1189.699	1170.371	1161.040	1158.374	1151.042
35.5	1178.369	1159.040	1150.376	1147.710	1139.712
36.0	1167.038	1148.376	1139.712	1136.379	1129.048
36.5	1156.374	1137.712	1129.048	1125.715	1118.384
37.0	1145.044	1126.382	1117.717	1114.385	1107.053
37.5	1133.713	1115.051	1107.053	1103.054	1096.389
38.0	1121.716	1103.721	1095.723	1091.724	1085.059
38.5	1110.386	1092.390	1084.392	1081.060	1073.728
39.0	1099.722	1081.060	1073.062	1069.729	1063.064
39.5	1087.725	1069.729	1062.398	1058.399	1051.067
40.0	1076.394	1057.732	1051.067	1047.068	1040.403
40.5	1064.397	1046.402	1039.737	1035.738	1029.073
41.0	1053.067	1034.405	1028.406	1023.741	1017.076
41.5	1041.070	1023.074	1016.410	1012.411	1005.079
42.0	1029.739	1011.078	1005.079	1001.080	993.749
42.5	1018.409	999.747	993.749	989.083	982.418
43.0	1006.412	988.417	982.418	977.753	970.421
43.5	995.082	976.420	970.421	966.422	959.091
44.0	983.085	964.423	958.424	954.425	947.760
44.5	971.088	952.426	946.427	942.428	935.763
45.0	959.091	941.095	935.097	930.431	924.433
45.5	947.760	929.098	923.100	919.101	913.102
46.0	935.763	917.101	911.103	907.104	901.772
46.5	923.766	905.104	899.772	895.773	890.441
47.0	911.769	893.107	887.775	883.776	878.444
47.5	899.106	881.110	875.778	871.779	867.114
48.0	887.109	869.113	863.781	860.449	855.117
48.5	875.112	857.116	852.451	848.452	843.120
49.0	862.448	845.120	840.454	836.455	831.790
49.5	850.451	833.123	828.457	825.125	820.459
50.0	837.788	821.126	816.460	813.128	808.462
50.5	825.125	809.129	804.463	801.131	797.132
51.0	812.461	797.132	792.466	789.134	785.135
51.5	800.464	785.135	780.469	777.803	773.138
52.0	788.467	773.138	768.472	765.806	761.807
52.5	775.804	761.141	756.475	754.476	749.810
53.0	763.807	749.144	744.478	742.479	737.813
53.5	751.143	737.147	732.481	730.482	725.816
54.0	739.146	725.150	721.151	719.151	713.819
54.5	727.149	713.819	709.154	707.154	701.822

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

55.0	715.152	702.489	697.823	695.824	690.492
55.5	703.822	690.492	685.826	683.827	679.162
56.0	691.158	678.495	673.830	672.497	667.165
56.5	679.162	667.165	662.166	660.700	655.434
57.0	667.831	655.168	650.369	648.769	643.770
57.5	656.101	643.571	638.638	637.172	631.973
58.0	644.370	632.107	626.841	625.508	620.310
58.5	632.573	620.576	615.244	614.045	609.113
59.0	620.976	608.979	603.581	602.448	597.715
59.5	609.712	597.249	591.717	590.917	586.452
60.0	598.182	585.585	579.987	579.320	574.988
60.5	586.785	574.188	568.656	567.656	563.391
61.0	575.588	562.791	557.392	556.259	552.060
61.5	563.591	551.527	546.195	544.929	540.863
62.0	551.794	539.930	534.598	533.665	529.399
62.5	539.730	529.199	523.667	522.934	518.535
63.0	528.133	519.735	515.270	514.936	511.337
63.5	516.403	509.404	505.872	505.139	501.406
64.0	509.338	499.340	496.141	494.675	490.409
64.5	498.341	488.610	485.144	483.811	479.812
65.0	486.010	477.146	474.280	473.014	469.148
65.5	473.414	465.549	462.950	462.350	458.417
66.0	461.283	454.218	451.886	451.619	447.420
66.5	449.286	442.621	440.622	440.622	436.890
67.0	437.423	431.091	429.491	429.691	426.292
67.5	425.759	419.760	418.294	418.694	415.362
68.0	413.962	408.430	407.097	407.630	404.164
68.5	402.098	396.900	395.833	396.566	393.167
69.0	389.835	385.302	384.503	384.903	381.770
69.5	377.904	373.905	372.972	373.439	370.573
70.0	366.107	362.375	361.708	361.908	359.376
70.5	354.510	350.778	350.311	350.511	348.112
71.0	342.647	339.248	339.114	339.381	336.781
71.5	330.783	327.717	327.984	328.184	325.918
72.0	319.253	316.120	316.653	316.920	314.987
72.5	307.722	304.723	305.589	305.856	304.256
73.0	296.325	293.592	294.792	295.125	293.726
73.5	285.261	282.595	283.995	284.595	283.062
74.0	274.331	271.598	273.331	273.797	272.798
74.5	263.400	260.801	262.734	263.200	262.467
75.0	252.403	250.070	252.270	252.736	252.136
75.5	241.539	239.339	241.872	242.472	241.805
76.0	230.542	229.009	231.608	232.275	231.741
76.5	220.144	218.811	221.411	222.144	221.677
77.0	210.013	208.547	211.413	212.080	211.346
77.5	199.549	198.550	201.416	201.949	201.216
78.0	189.352	188.552	191.418	192.218	191.485
78.5	179.221	178.821	181.554	182.487	181.887
79.0	169.490	169.091	171.890	173.023	172.556
79.5	159.760	159.560	162.359	163.559	163.159
80.0	150.162	150.229	152.828	154.494	153.961
80.5	140.498	141.098	143.764	145.363	144.963
81.0	131.233	132.167	134.766	136.432	136.166
81.5	122.302	123.302	125.968	127.634	127.434
82.0	113.971	114.638	117.370	119.103	118.903
82.5	105.640	106.240	108.906	110.639	110.505

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

83.0	97.309	98.242	100.575	102.374	102.507
83.5	89.111	90.244	92.510	94.243	94.643
84.0	81.446	82.379	84.512	86.178	86.778
84.5	73.648	74.648	76.647	78.314	78.913
85.0	66.383	67.183	69.049	70.515	71.049
85.5	59.318	59.718	61.318	62.851	63.384
86.0	52.387	52.520	53.920	55.319	55.986
86.5	45.522	45.522	46.788	48.054	48.654
87.0	38.590	38.590	39.523	41.123	41.589
87.5	31.725	31.792	32.658	34.258	34.858
88.0	25.194	25.127	25.993	27.726	28.393
88.5	18.929	18.529	19.662	21.195	22.128
89.0	12.264	12.064	13.597	15.063	16.063
89.5	5.665	6.732	8.131	9.264	9.598
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.114	2.168	2.001	1.946	2.112
91.0	9.061	4.781	3.891	3.836	3.780
91.5	14.565	9.729	5.782	5.726	5.670
92.0	20.124	16.177	8.339	7.449	7.449
92.5	25.906	22.848	12.897	9.339	9.173
93.0	31.910	29.241	18.234	12.397	11.174
93.5	37.969	35.356	23.960	16.733	14.565
94.0	43.918	41.360	30.298	21.903	19.179
94.5	50.033	47.364	36.913	27.240	24.183
95.0	56.037	53.535	43.417	32.688	29.130
95.5	62.041	59.317	49.755	38.303	34.356
96.0	67.767	65.209	55.981	44.140	39.693
96.5	73.548	71.102	62.207	50.088	45.196
97.0	79.163	76.884	68.378	56.037	51.033
97.5	84.945	82.721	74.604	62.096	56.871
98.0	90.670	88.447	80.664	68.100	62.763
98.5	96.396	94.228	86.501	74.215	68.656
99.0	102.234	100.177	92.449	80.052	74.604
99.5	108.126	106.069	98.453	85.890	80.442
100.0	113.908	112.018	104.457	91.894	86.168
100.5	119.912	117.966	110.461	98.120	91.949
101.0	126.083	123.914	116.576	104.402	98.231
101.5	132.364	129.974	122.803	110.684	104.735
102.0	138.480	136.256	129.029	116.966	111.184
102.5	144.873	142.482	135.478	123.247	117.577
103.0	151.433	148.931	141.871	129.474	124.081
103.5	157.992	155.491	148.653	136.145	130.530
104.0	164.719	162.106	155.546	143.038	137.257
104.5	171.668	169.000	162.440	150.098	143.983
105.0	178.784	176.060	169.278	157.047	150.821
105.5	186.066	183.231	176.338	164.052	157.603
106.0	193.460	190.458	183.509	171.168	164.385
106.5	200.909	197.907	191.014	178.339	171.223
107.0	208.859	205.690	199.019	185.955	178.673
107.5	217.087	213.696	207.136	194.016	186.733
108.0	225.259	221.923	215.419	202.744	195.017
108.5	233.875	230.318	223.702	211.472	203.578
109.0	242.715	238.879	232.208	220.311	212.250
109.5	251.776	247.773	241.158	229.094	221.034
110.0	261.449	256.890	250.331	238.100	230.206
110.5	271.344	266.230	259.726	247.773	239.713

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

111.0	281.351	276.014	269.454	257.836	249.274
111.5	291.580	286.076	279.350	268.064	259.114
112.0	302.198	296.416	289.189	278.293	268.509
112.5	312.872	307.034	299.140	288.467	278.460
113.0	324.046	317.986	309.647	298.974	288.856
113.5	335.553	329.438	320.766	310.314	300.030
114.0	347.227	341.112	332.551	322.378	312.427
114.5	359.291	353.176	344.559	334.942	325.602
115.0	371.521	365.573	357.012	347.617	338.944
115.5	384.307	378.081	369.798	360.236	352.120
116.0	397.205	391.089	383.029	373.522	365.517
116.5	410.825	404.432	396.704	387.142	379.804
117.0	425.001	418.052	410.491	401.819	394.536
117.5	435.452	428.670	423.110	415.328	409.490
118.0	448.794	441.067	436.063	429.281	422.777
118.5	464.304	455.854	449.294	442.234	434.729
119.0	479.481	470.419	464.304	456.910	448.016
119.5	494.824	485.929	480.203	471.809	462.914
120.0	510.668	501.995	496.158	488.097	478.647
120.5	526.400	518.284	512.614	505.387	495.436
121.0	542.911	534.906	529.180	522.620	513.281
121.5	559.255	551.361	545.691	540.076	530.737
122.0	576.489	568.150	563.147	557.587	548.248
122.5	593.166	584.828	580.380	574.821	564.814
123.0	610.400	602.617	598.170	593.722	583.160
123.5	628.189	620.406	617.071	612.623	602.061
124.0	645.979	638.752	635.416	631.525	621.518
124.5	663.768	656.541	653.762	649.870	640.419
125.0	681.558	674.331	671.551	668.215	658.765
125.5	699.903	692.676	689.896	686.561	676.554
126.0	717.692	710.465	708.798	704.906	694.344
126.5	735.482	728.255	727.699	724.363	713.245
127.0	753.827	746.600	746.600	743.821	733.258
127.5	772.172	764.390	764.390	762.722	753.271
128.0	789.962	782.179	782.735	781.623	772.172
128.5	807.751	799.412	800.524	800.524	790.518
129.0	825.541	816.646	818.314	818.870	809.419
129.5	843.330	834.435	836.659	837.771	828.876
130.0	861.120	852.225	855.004	856.672	849.445
130.5	878.909	869.458	873.906	875.018	868.902
131.0	896.698	886.692	891.695	892.807	886.692
131.5	913.376	903.369	909.485	909.485	903.925
132.0	930.610	920.047	926.718	927.274	920.603
132.5	947.287	937.281	943.952	944.508	937.281
133.0	963.965	954.514	960.629	961.741	953.402
133.5	980.642	971.192	977.863	978.975	970.636
134.0	997.320	987.313	993.984	995.652	987.313
134.5	1012.330	1003.435	1009.550	1010.662	1003.435
135.0	1027.340	1019.001	1024.560	1025.672	1017.889
135.5	1041.793	1035.122	1039.570	1040.126	1032.343
136.0	1056.247	1050.132	1053.468	1055.136	1047.353
136.5	1071.257	1064.586	1067.366	1070.145	1062.918
137.0	1085.155	1079.040	1081.820	1084.043	1077.372
137.5	1099.053	1092.382	1095.162	1096.830	1090.158
138.0	1112.395	1105.724	1107.948	1109.060	1102.389
138.5	1125.737	1118.510	1120.734	1121.290	1114.063

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

139.0	1138.524	1131.297	1133.520	1133.520	1125.737
139.5	1151.310	1144.083	1145.750	1145.195	1136.856
140.0	1163.540	1155.757	1157.981	1157.425	1149.086
140.5	1175.214	1166.875	1169.099	1168.543	1159.648
141.0	1186.889	1178.550	1180.217	1179.106	1170.211
141.5	1197.451	1189.112	1191.336	1189.668	1179.662
142.0	1208.569	1200.231	1201.898	1199.675	1189.668
142.5	1219.132	1210.793	1212.461	1210.237	1199.119
143.0	1229.694	1220.800	1222.467	1220.244	1209.125
143.5	1239.701	1231.362	1232.474	1230.250	1218.576
144.0	1249.152	1241.369	1241.925	1239.145	1227.471
144.5	1258.602	1250.819	1251.375	1248.040	1236.365
145.0	1267.497	1260.270	1260.270	1256.378	1244.704
145.5	1276.948	1269.721	1269.165	1265.829	1253.599
146.0	1285.842	1278.615	1278.059	1274.168	1262.494
146.5	1294.737	1287.510	1286.398	1283.063	1271.388
147.0	1303.076	1296.405	1294.181	1291.957	1280.283
147.5	1311.415	1304.743	1302.520	1300.296	1288.622
148.0	1319.753	1313.082	1309.747	1308.079	1297.517
148.5	1328.092	1321.421	1316.974	1315.862	1306.411
149.0	1335.875	1329.760	1324.201	1323.645	1315.306
149.5	1343.658	1337.543	1330.872	1331.428	1323.645
150.0	1351.441	1345.326	1338.099	1338.655	1331.428
150.5	1359.224	1353.108	1344.770	1345.326	1339.211
151.0	1366.451	1360.335	1351.441	1351.997	1346.437
151.5	1374.233	1367.562	1358.668	1358.668	1353.108
152.0	1381.460	1374.789	1365.339	1364.783	1359.780
152.5	1388.687	1381.460	1372.010	1371.454	1365.895
153.0	1395.914	1388.131	1378.681	1378.125	1371.454
153.5	1402.585	1394.802	1385.352	1384.796	1376.457
154.0	1409.256	1401.474	1392.579	1391.467	1382.016
154.5	1416.483	1407.589	1399.250	1397.582	1387.576
155.0	1423.154	1413.704	1405.921	1404.253	1393.691
155.5	1429.269	1419.263	1412.592	1410.924	1399.806
156.0	1435.385	1425.378	1419.819	1417.039	1405.921
156.5	1441.500	1431.493	1426.490	1423.710	1412.036
157.0	1447.615	1437.608	1433.161	1430.381	1418.151
157.5	1453.174	1443.167	1439.276	1436.496	1424.266
158.0	1458.733	1448.727	1445.391	1442.612	1430.381
158.5	1464.848	1454.842	1451.506	1448.727	1437.052
159.0	1469.852	1460.401	1457.065	1454.842	1443.167
159.5	1475.411	1465.960	1462.625	1460.957	1449.283
160.0	1480.414	1470.963	1468.184	1466.516	1455.398
160.5	1485.417	1475.967	1473.187	1472.075	1461.513
161.0	1490.421	1480.970	1478.190	1477.635	1467.628
161.5	1495.424	1486.529	1482.638	1483.194	1473.743
162.0	1500.983	1491.532	1487.085	1488.753	1479.302
162.5	1505.986	1496.536	1491.532	1493.756	1484.306
163.0	1510.990	1501.539	1495.980	1498.759	1489.309
163.5	1515.993	1505.986	1500.427	1503.763	1493.756
164.0	1520.996	1510.434	1504.319	1508.210	1498.204
164.5	1524.888	1514.881	1508.210	1512.657	1502.651
165.0	1529.335	1519.328	1512.102	1517.105	1506.542
165.5	1533.782	1523.220	1515.993	1520.996	1510.434
166.0	1538.230	1527.111	1519.884	1524.888	1513.769
166.5	1542.677	1531.003	1523.776	1528.223	1517.661

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

167.0	1546.569	1534.338	1527.111	1531.559	1520.996
167.5	1550.460	1537.674	1531.003	1534.894	1524.888
168.0	1554.351	1541.009	1534.338	1538.230	1528.223
168.5	1558.243	1544.345	1537.674	1541.565	1532.115
169.0	1561.578	1547.124	1541.009	1544.345	1535.450
169.5	1564.358	1549.904	1543.789	1547.124	1538.786
170.0	1567.138	1552.684	1546.569	1549.904	1542.677
170.5	1569.917	1555.463	1548.792	1552.684	1545.457
171.0	1572.697	1557.687	1551.016	1555.463	1548.236
171.5	1574.920	1559.911	1553.240	1558.243	1551.016
172.0	1577.144	1562.134	1554.907	1560.467	1553.240
172.5	1579.368	1564.358	1556.575	1562.134	1554.907
173.0	1581.591	1566.582	1558.243	1564.358	1556.019
173.5	1583.259	1568.249	1559.911	1565.470	1557.131
174.0	1584.927	1569.917	1561.578	1566.582	1557.687
174.5	1586.039	1571.029	1562.690	1567.693	1558.243
175.0	1587.151	1572.697	1563.802	1568.249	1558.243
175.5	1588.263	1573.809	1565.470	1568.805	1558.799
176.0	1589.374	1574.920	1566.582	1568.805	1558.799
176.5	1589.930	1576.032	1567.138	1569.361	1558.799
177.0	1590.486	1577.144	1568.249	1569.361	1558.243
177.5	1591.598	1578.256	1569.361	1569.361	1558.243
178.0	1592.154	1578.256	1569.917	1569.361	1558.799
178.5	1592.154	1578.812	1570.473	1569.361	1558.799
179.0	1592.710	1579.368	1570.473	1569.361	1558.799
179.5	1593.266	1579.368	1571.029	1569.361	1558.799
180.0	1573.809	1573.809	1573.809	1573.809	1573.809

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

Zone	Lumens	%Lamp	%Fixt
0-20	574.25	N.A.	7.10
0-30	1200.56	N.A.	14.90
0-40	1928.71	N.A.	23.90
0-60	3277.32	N.A.	40.60
0-80	4013.44	N.A.	49.70
0-90	4091.23	N.A.	50.70
10-90	3941.34	N.A.	48.80
20-40	1354.46	N.A.	16.80
20-50	2077.31	N.A.	25.70
40-70	1817.29	N.A.	22.50
60-80	736.13	N.A.	9.10
70-80	267.44	N.A.	3.30
80-90	77.78	N.A.	1.00
90-110	227.76	N.A.	2.80
90-120	584.67	N.A.	7.20
90-130	1184.45	N.A.	14.70
90-150	2754.95	N.A.	34.10
90-180	3981.63	N.A.	49.30
110-180	3753.87	N.A.	46.50
0-180	8072.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.89
10-20	424.36
20-30	626.31
30-40	728.16
40-50	722.84
50-60	625.76
60-70	468.68
70-80	267.44
80-90	77.78
90-100	49.12
100-110	178.63
110-120	356.92
120-130	599.78
130-140	784.27
140-150	786.23
150-160	649.46
160-170	427.97
170-180	149.25

IES INDOOR REPORT

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

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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-L8-827U-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	16.2	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

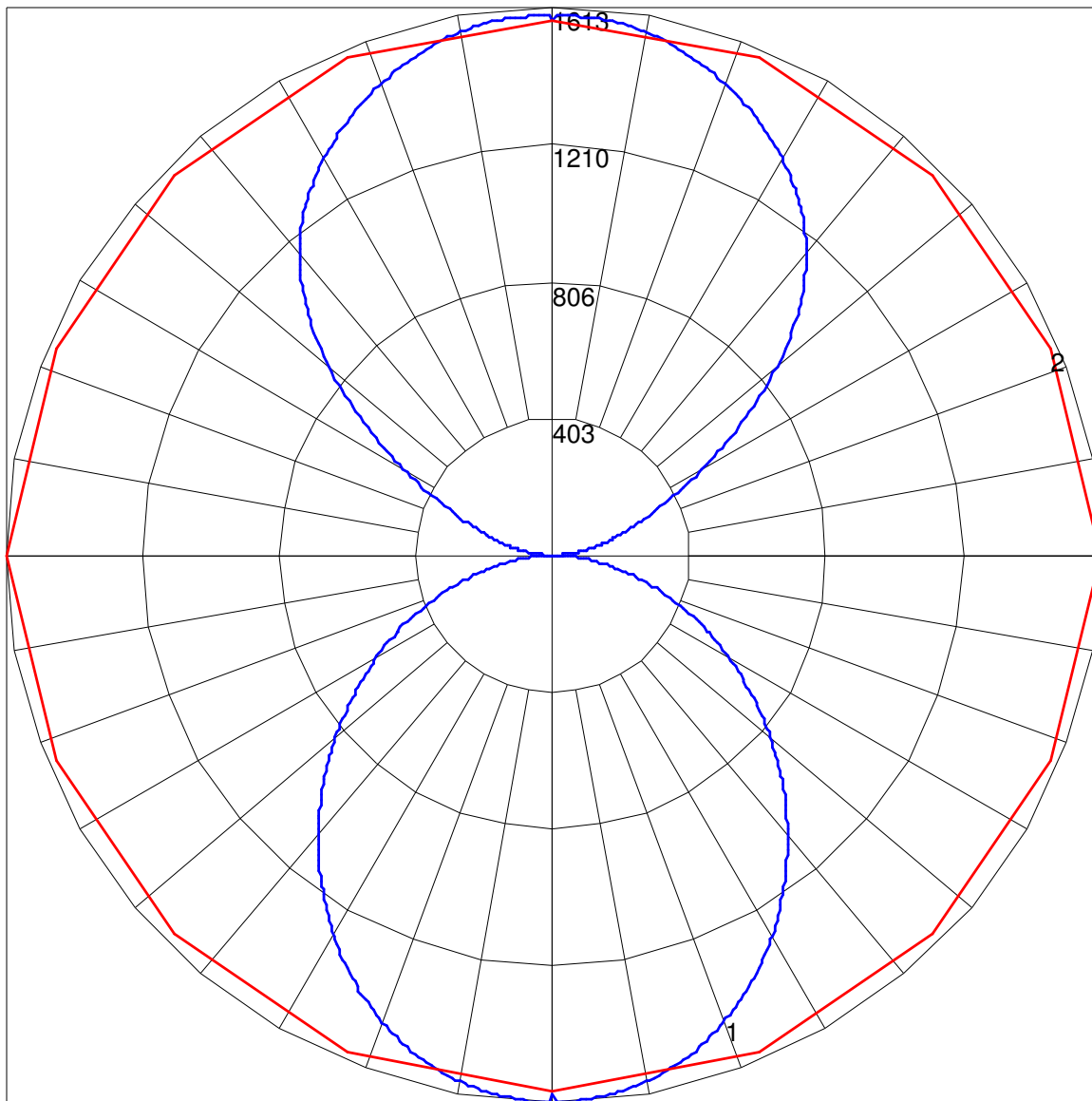
4H	2H	16.8	17.5	17.7	18.5	19.8	16.7	17.4	17.6	18.4
	3H	18.7	19.3	19.7	20.3	21.6	18.6	19.3	19.6	20.3
	4H	19.5	20.0	20.4	21.0	22.3	19.4	20.0	20.4	21.0
	6H	20.0	20.5	21.0	21.5	22.8	20.0	20.5	21.0	21.5
	8H	20.2	20.6	21.2	21.7	23.0	20.2	20.6	21.2	21.7
	12H	20.3	20.7	21.3	21.7	23.1	20.3	20.7	21.4	21.8

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

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

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1612.925 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.)