

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-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-L12-930U-L12-930D-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	8122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	11050	10774	10651
55	10158	9912	9808
65	9369	9143	9044
75	7945	7941	7937
85	6205	6455	6641

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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	1603.426	1603.426	1603.426	1603.426	1603.426
0.5	1627.639	1604.771	1596.700	1600.063	1594.683
1.0	1627.639	1604.099	1596.700	1600.063	1594.683
1.5	1626.966	1603.426	1596.028	1600.063	1594.010
2.0	1626.294	1602.754	1595.355	1599.391	1594.010
2.5	1625.621	1602.081	1594.010	1598.718	1593.337
3.0	1624.276	1600.736	1593.337	1598.046	1591.992
3.5	1622.931	1599.391	1591.992	1596.700	1590.647
4.0	1621.586	1598.046	1590.647	1595.355	1589.302
4.5	1620.241	1596.028	1589.302	1594.010	1587.284
5.0	1618.895	1594.683	1587.284	1591.992	1585.267
5.5	1616.878	1592.665	1585.267	1589.975	1583.249
6.0	1614.860	1589.975	1583.249	1587.957	1580.558
6.5	1612.170	1587.957	1580.558	1585.267	1578.541
7.0	1610.152	1585.267	1578.541	1582.576	1575.850
7.5	1608.134	1582.576	1575.850	1579.886	1573.833
8.0	1604.771	1579.886	1572.488	1577.196	1571.142
8.5	1602.081	1576.523	1569.125	1573.833	1567.780
9.0	1598.718	1573.833	1566.434	1570.470	1564.417
9.5	1595.355	1570.470	1562.399	1566.434	1561.054
10.0	1591.992	1567.107	1559.036	1563.071	1557.018
10.5	1587.957	1563.071	1555.001	1559.036	1553.655
11.0	1584.594	1559.036	1550.965	1555.001	1548.947
11.5	1579.886	1555.001	1546.930	1550.965	1544.912
12.0	1575.850	1550.965	1542.894	1546.257	1540.204
12.5	1571.815	1546.257	1538.186	1541.549	1535.496
13.0	1567.107	1542.222	1533.478	1536.841	1530.788
13.5	1562.399	1536.841	1528.770	1531.460	1526.080
14.0	1557.691	1532.133	1523.389	1526.752	1521.372
14.5	1552.983	1527.425	1518.009	1521.372	1515.991
15.0	1548.275	1522.044	1512.628	1515.991	1510.610
15.5	1542.222	1517.336	1507.247	1509.938	1504.557
16.0	1535.496	1511.956	1501.194	1504.557	1499.177
16.5	1528.770	1505.902	1495.141	1498.504	1493.123
17.0	1522.717	1499.849	1489.088	1492.451	1487.070
17.5	1515.991	1493.123	1482.362	1485.725	1480.344
18.0	1509.265	1486.398	1475.636	1478.999	1473.619
18.5	1502.539	1479.672	1468.911	1471.601	1466.893
19.0	1495.814	1472.946	1462.857	1464.875	1458.822
19.5	1488.415	1466.220	1456.132	1456.804	1450.751
20.0	1481.690	1458.822	1450.078	1449.406	1442.680
20.5	1474.291	1452.096	1443.353	1441.335	1434.609
21.0	1466.893	1444.698	1435.954	1433.264	1425.866
21.5	1458.822	1437.299	1427.883	1425.193	1417.122
22.0	1451.423	1429.228	1419.140	1416.449	1409.051
22.5	1443.353	1421.157	1411.069	1407.706	1400.308
23.0	1435.282	1413.087	1402.998	1398.290	1391.564
23.5	1427.211	1405.016	1394.254	1389.546	1383.493
24.0	1418.467	1396.945	1386.183	1380.803	1374.750
24.5	1409.724	1388.201	1377.440	1372.059	1366.006
25.0	1401.653	1379.458	1368.696	1363.316	1357.263
25.5	1392.909	1370.714	1359.280	1354.572	1347.846
26.0	1383.493	1361.298	1350.537	1345.829	1339.103
26.5	1374.750	1352.555	1341.121	1337.085	1330.359

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1365.334	1343.138	1331.705	1328.342	1320.943
27.5	1355.917	1333.722	1322.961	1319.598	1312.200
28.0	1346.501	1323.634	1312.872	1310.182	1302.784
28.5	1336.413	1313.545	1303.456	1301.439	1293.368
29.0	1326.324	1304.129	1294.040	1292.022	1283.952
29.5	1316.908	1294.040	1284.624	1281.934	1275.208
30.0	1306.819	1283.952	1275.208	1272.518	1265.792
30.5	1296.731	1273.863	1265.119	1263.102	1256.376
31.0	1285.969	1264.447	1255.031	1253.013	1246.960
31.5	1275.881	1254.358	1244.942	1242.924	1236.871
32.0	1265.119	1243.597	1234.853	1232.163	1226.782
32.5	1254.358	1233.508	1224.765	1222.074	1216.021
33.0	1243.597	1223.420	1214.676	1211.986	1205.260
33.5	1233.508	1212.658	1203.915	1201.224	1195.171
34.0	1222.074	1201.897	1193.826	1190.463	1184.410
34.5	1211.313	1191.136	1182.392	1179.702	1172.976
35.0	1200.552	1181.047	1171.631	1168.941	1161.542
35.5	1189.118	1169.613	1160.870	1158.179	1150.109
36.0	1177.684	1158.852	1150.109	1146.746	1139.347
36.5	1166.923	1148.091	1139.347	1135.984	1128.586
37.0	1155.489	1136.657	1127.913	1124.551	1117.152
37.5	1144.055	1125.223	1117.152	1113.117	1106.391
38.0	1131.949	1113.789	1105.718	1101.683	1094.957
38.5	1120.515	1102.355	1094.285	1090.922	1083.523
39.0	1109.754	1090.922	1082.851	1079.488	1072.762
39.5	1097.647	1079.488	1072.089	1068.054	1060.656
40.0	1086.214	1067.381	1060.656	1056.620	1049.894
40.5	1074.107	1055.948	1049.222	1045.186	1038.461
41.0	1062.673	1043.841	1037.788	1033.080	1026.354
41.5	1050.567	1032.407	1025.682	1021.646	1014.248
42.0	1039.133	1020.301	1014.248	1010.212	1002.814
42.5	1027.699	1008.867	1002.814	998.106	991.380
43.0	1015.593	997.433	991.380	986.672	979.274
43.5	1004.159	985.327	979.274	975.238	967.840
44.0	992.053	973.220	967.167	963.132	956.406
44.5	979.946	961.114	955.061	951.025	944.300
45.0	967.840	949.680	943.627	938.919	932.866
45.5	956.406	937.574	931.521	927.485	921.432
46.0	944.300	925.467	919.414	915.379	909.998
46.5	932.193	913.361	907.980	903.945	898.564
47.0	920.087	901.255	895.874	891.839	886.458
47.5	907.308	889.148	883.768	879.732	875.024
48.0	895.201	877.042	871.661	868.298	862.918
48.5	883.095	864.935	860.227	856.192	850.811
49.0	870.316	852.829	848.121	844.085	839.377
49.5	858.210	840.723	836.015	832.652	827.944
50.0	845.431	828.616	823.908	820.545	815.837
50.5	832.652	816.510	811.802	808.439	804.403
51.0	819.873	804.403	799.695	796.332	792.297
51.5	807.766	792.297	787.589	784.899	780.191
52.0	795.660	780.191	775.483	772.792	768.757
52.5	782.881	768.084	763.376	761.358	756.650
53.0	770.774	755.978	751.270	749.252	744.544
53.5	757.995	743.871	739.163	737.146	732.438
54.0	745.889	731.765	727.729	725.712	720.331
54.5	733.783	720.331	715.623	713.605	708.225

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55.0	721.676	708.897	704.189	702.172	696.791
55.5	710.242	696.791	692.083	690.065	685.357
56.0	697.463	684.684	679.976	678.631	673.251
56.5	685.357	673.251	668.206	666.727	661.413
57.0	673.923	661.144	656.302	654.687	649.643
57.5	662.086	649.441	644.464	642.985	637.739
58.0	650.248	637.873	632.560	631.215	625.968
58.5	638.344	626.237	620.857	619.646	614.669
59.0	626.641	614.535	609.087	607.943	603.168
59.5	615.274	602.697	597.115	596.308	591.801
60.0	603.639	590.927	585.277	584.605	580.233
60.5	592.138	579.426	573.844	572.835	568.530
61.0	580.838	567.925	562.477	561.334	557.096
61.5	568.732	556.558	551.178	549.900	545.797
62.0	556.827	544.855	539.475	538.533	534.229
62.5	544.654	534.027	528.445	527.705	523.266
63.0	532.951	524.476	519.970	519.634	516.002
63.5	521.113	514.051	510.487	509.747	505.980
64.0	513.984	503.896	500.667	499.187	494.883
64.5	502.887	493.067	489.570	488.224	484.189
65.0	490.444	481.499	478.607	477.329	473.428
65.5	477.732	469.796	467.173	466.567	462.599
66.0	465.491	458.362	456.008	455.739	451.502
66.5	453.385	446.659	444.641	444.641	440.875
67.0	441.413	435.023	433.409	433.611	430.181
67.5	429.643	423.590	422.110	422.514	419.151
68.0	417.738	412.156	410.811	411.349	407.851
68.5	405.766	400.520	399.444	400.184	396.754
69.0	393.391	388.817	388.010	388.414	385.253
69.5	381.352	377.316	376.375	376.846	373.953
70.0	369.447	365.681	365.008	365.210	362.654
70.5	357.744	353.978	353.507	353.709	351.288
71.0	345.772	342.342	342.208	342.477	339.854
71.5	333.801	330.707	330.976	331.177	328.891
72.0	322.165	319.004	319.542	319.811	317.860
72.5	310.529	307.503	308.377	308.646	307.032
73.0	299.028	296.271	297.481	297.818	296.405
73.5	287.863	285.173	286.585	287.191	285.644
74.0	276.833	274.076	275.824	276.295	275.286
74.5	265.803	263.180	265.130	265.601	264.861
75.0	254.705	252.351	254.571	255.042	254.436
75.5	243.742	241.523	244.079	244.684	244.011
76.0	232.645	231.098	233.721	234.394	233.855
76.5	222.153	220.807	223.430	224.170	223.699
77.0	211.929	210.450	213.342	214.014	213.274
77.5	201.370	200.361	203.253	203.791	203.051
78.0	191.079	190.272	193.164	193.972	193.232
78.5	180.856	180.453	183.210	184.152	183.547
79.0	171.037	170.633	173.458	174.601	174.130
79.5	161.217	161.015	163.840	165.051	164.647
80.0	151.532	151.599	154.222	155.904	155.366
80.5	141.779	142.385	145.075	146.689	146.286
81.0	132.431	133.372	135.995	137.677	137.408
81.5	123.418	124.427	127.117	128.799	128.597
82.0	115.011	115.683	118.441	120.190	119.988
82.5	106.604	107.209	109.899	111.648	111.513

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83.0	98.196	99.138	101.492	103.308	103.442
83.5	89.924	91.067	93.354	95.103	95.506
84.0	82.189	83.131	85.283	86.964	87.570
84.5	74.320	75.329	77.346	79.028	79.633
85.0	66.989	67.796	69.679	71.159	71.697
85.5	59.859	60.263	61.877	63.424	63.962
86.0	52.865	52.999	54.412	55.824	56.497
86.5	45.937	45.937	47.215	48.493	49.098
87.0	38.942	38.942	39.884	41.498	41.969
87.5	32.015	32.082	32.956	34.570	35.176
88.0	25.423	25.356	26.231	27.979	28.652
88.5	19.101	18.698	19.841	21.388	22.330
89.0	12.375	12.174	13.721	15.200	16.209
89.5	5.717	6.793	8.205	9.349	9.685
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.126	2.174	2.007	1.951	2.119
91.0	9.088	4.795	3.903	3.847	3.791
91.5	14.608	9.757	5.798	5.743	5.687
92.0	20.183	16.225	8.363	7.471	7.471
92.5	25.982	22.915	12.935	9.367	9.199
93.0	32.003	29.327	18.287	12.433	11.207
93.5	38.080	35.460	24.030	16.782	14.608
94.0	44.046	41.481	30.386	21.967	19.235
94.5	50.179	47.503	37.021	27.320	24.253
95.0	56.200	53.691	43.544	32.784	29.215
95.5	62.222	59.490	49.900	38.415	34.456
96.0	67.965	65.400	56.145	44.269	39.809
96.5	73.763	71.310	62.389	50.235	45.328
97.0	79.394	77.108	68.578	56.200	51.183
97.5	85.193	82.963	74.822	62.278	57.037
98.0	90.935	88.705	80.900	68.299	62.947
98.5	96.678	94.504	86.754	74.432	68.857
99.0	102.532	100.469	92.720	80.286	74.822
99.5	108.442	106.379	98.741	86.141	80.677
100.0	114.241	112.345	104.762	92.162	86.419
100.5	120.262	118.311	110.784	98.406	92.218
101.0	126.451	124.276	116.917	104.707	98.518
101.5	132.751	130.354	123.161	111.007	105.041
102.0	138.884	136.654	129.406	117.307	111.509
102.5	145.296	142.898	135.873	123.607	117.920
103.0	151.875	149.366	142.285	129.852	124.444
103.5	158.454	155.945	149.087	136.542	130.911
104.0	165.200	162.580	156.001	143.456	137.658
104.5	172.169	169.493	162.914	150.537	144.404
105.0	179.306	176.574	169.772	157.506	151.262
105.5	186.610	183.766	176.853	164.531	158.064
106.0	194.025	191.014	184.045	171.668	164.866
106.5	201.496	198.486	191.572	178.860	171.723
107.0	209.469	206.291	199.601	186.498	179.195
107.5	217.721	214.320	207.741	194.583	187.279
108.0	225.917	222.571	216.048	203.336	195.586
108.5	234.559	230.990	224.356	212.090	204.173
109.0	243.424	239.577	232.886	220.955	212.870
109.5	252.512	248.497	241.862	229.764	221.679
110.0	262.213	257.641	251.062	238.796	230.879
110.5	272.137	267.008	260.484	248.497	240.413

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111.0	282.173	276.820	270.241	258.589	250.003
111.5	292.432	286.912	280.166	268.848	259.871
112.0	303.081	297.282	290.034	279.106	269.294
112.5	313.786	307.931	300.014	289.309	279.274
113.0	324.992	318.915	310.552	299.847	289.700
113.5	336.533	330.400	321.703	311.221	300.906
114.0	348.242	342.109	333.523	323.320	313.340
114.5	360.340	354.208	345.566	335.920	326.553
115.0	372.606	366.641	358.055	348.632	339.934
115.5	385.430	379.185	370.878	361.288	353.148
116.0	398.365	392.232	384.148	374.614	366.585
116.5	412.025	405.613	397.863	388.273	380.914
117.0	426.242	419.273	411.690	402.993	395.689
117.5	436.724	429.922	424.347	416.541	410.687
118.0	450.105	442.355	437.337	430.535	424.012
118.5	465.660	457.186	450.607	443.526	435.999
119.0	480.881	471.793	465.660	458.245	449.324
119.5	496.270	487.349	481.606	473.187	464.267
120.0	512.160	503.462	497.608	489.523	480.045
120.5	527.938	519.798	514.111	506.863	496.883
121.0	544.497	536.469	530.726	524.147	514.780
121.5	560.889	552.972	547.285	541.654	532.287
122.0	578.173	569.810	564.792	559.216	549.850
122.5	594.899	586.536	582.076	576.500	566.464
123.0	612.183	604.377	599.917	595.457	584.863
123.5	630.024	622.219	618.874	614.413	603.820
124.0	647.866	640.618	637.272	633.370	623.334
124.5	665.707	658.459	655.671	651.769	642.290
125.0	683.549	676.301	673.513	670.168	660.689
125.5	701.948	694.699	691.912	688.566	678.531
126.0	719.789	712.541	710.868	706.965	696.372
126.5	737.630	730.382	729.825	726.479	715.329
127.0	756.029	748.781	748.781	745.993	735.400
127.5	774.428	766.623	766.623	764.950	755.472
128.0	792.270	784.464	785.022	783.906	774.428
128.5	810.111	801.748	802.863	802.863	792.827
129.0	827.952	819.032	820.704	821.262	811.784
129.5	845.794	836.873	839.103	840.218	831.298
130.0	863.635	854.714	857.502	859.175	851.927
130.5	881.477	871.998	876.459	877.574	871.441
131.0	899.318	889.282	894.300	895.415	889.282
131.5	916.044	906.009	912.141	912.141	906.566
132.0	933.328	922.735	929.425	929.983	923.292
132.5	950.054	940.019	946.709	947.267	940.019
133.0	966.781	957.303	963.436	964.551	956.187
133.5	983.507	974.029	980.719	981.834	973.471
134.0	1000.233	990.198	996.888	998.561	990.198
134.5	1015.287	1006.366	1012.499	1013.614	1006.366
135.0	1030.341	1021.978	1027.553	1028.668	1020.863
135.5	1044.837	1038.146	1042.607	1043.164	1035.359
136.0	1059.333	1053.200	1056.545	1058.218	1050.412
136.5	1074.387	1067.696	1070.484	1073.272	1066.024
137.0	1088.325	1082.192	1084.980	1087.210	1080.520
137.5	1102.264	1095.573	1098.361	1100.034	1093.343
138.0	1115.645	1108.954	1111.185	1112.300	1105.609
138.5	1129.026	1121.778	1124.008	1124.566	1117.318

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1141.849	1134.601	1136.832	1136.832	1129.026
139.5	1154.673	1147.425	1149.098	1148.540	1140.177
140.0	1166.939	1159.133	1161.364	1160.806	1152.443
140.5	1178.647	1170.284	1172.514	1171.957	1163.036
141.0	1190.356	1181.993	1183.665	1182.550	1173.629
141.5	1200.949	1192.586	1194.816	1193.144	1183.108
142.0	1212.100	1203.737	1205.409	1203.179	1193.144
142.5	1222.693	1214.330	1216.003	1213.773	1202.622
143.0	1233.287	1224.366	1226.039	1223.808	1212.658
143.5	1243.322	1234.959	1236.074	1233.844	1222.136
144.0	1252.801	1244.995	1245.553	1242.765	1231.056
144.5	1262.279	1254.473	1255.031	1251.686	1239.977
145.0	1271.200	1263.952	1263.952	1260.049	1248.340
145.5	1280.678	1273.430	1272.872	1269.527	1257.261
146.0	1289.599	1282.351	1281.793	1277.890	1266.182
146.5	1298.519	1291.271	1290.156	1286.811	1275.102
147.0	1306.882	1300.192	1297.962	1295.732	1284.023
147.5	1315.246	1308.555	1306.325	1304.095	1292.386
148.0	1323.609	1316.918	1313.573	1311.900	1301.307
148.5	1331.972	1325.281	1320.821	1319.706	1310.228
149.0	1339.778	1333.645	1328.069	1327.512	1319.148
149.5	1347.583	1341.450	1334.760	1335.317	1327.512
150.0	1355.389	1349.256	1342.008	1342.565	1335.317
150.5	1363.194	1357.061	1348.698	1349.256	1343.123
151.0	1370.442	1364.309	1355.389	1355.946	1350.371
151.5	1378.248	1371.557	1362.637	1362.637	1357.061
152.0	1385.496	1378.806	1369.327	1368.770	1363.752
152.5	1392.744	1385.496	1376.018	1375.460	1369.885
153.0	1399.992	1392.187	1382.708	1382.151	1375.460
153.5	1406.683	1398.877	1389.399	1388.841	1380.478
154.0	1413.373	1405.568	1396.647	1395.532	1386.054
154.5	1420.621	1411.701	1403.337	1401.665	1391.629
155.0	1427.312	1417.834	1410.028	1408.355	1397.762
155.5	1433.445	1423.409	1416.719	1415.046	1403.895
156.0	1439.578	1429.542	1423.967	1421.179	1410.028
156.5	1445.711	1435.675	1430.657	1427.869	1416.161
157.0	1451.844	1441.808	1437.348	1434.560	1422.294
157.5	1457.419	1447.383	1443.481	1440.693	1428.427
158.0	1462.995	1452.959	1449.614	1446.826	1434.560
158.5	1469.128	1459.092	1455.747	1452.959	1441.250
159.0	1474.146	1464.667	1461.322	1459.092	1447.383
159.5	1479.721	1470.243	1466.897	1465.225	1453.516
160.0	1484.739	1475.261	1472.473	1470.800	1459.649
160.5	1489.757	1480.279	1477.491	1476.376	1465.782
161.0	1494.775	1485.296	1482.509	1481.951	1471.915
161.5	1499.793	1490.872	1486.969	1487.527	1478.048
162.0	1505.368	1495.890	1491.429	1493.102	1483.624
162.5	1510.386	1500.908	1495.890	1498.120	1488.642
163.0	1515.404	1505.926	1500.350	1503.138	1493.660
163.5	1520.422	1510.386	1504.810	1508.156	1498.120
164.0	1525.440	1514.846	1508.713	1512.616	1502.580
164.5	1529.342	1519.307	1512.616	1517.076	1507.041
165.0	1533.803	1523.767	1516.519	1521.537	1510.943
165.5	1538.263	1527.670	1520.422	1525.440	1514.846
166.0	1542.723	1531.573	1524.324	1529.342	1518.191
166.5	1547.184	1535.475	1528.227	1532.688	1522.094

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1551.087	1538.821	1531.573	1536.033	1525.440
167.5	1554.989	1542.166	1535.475	1539.378	1529.342
168.0	1558.892	1545.511	1538.821	1542.723	1532.688
168.5	1562.795	1548.856	1542.166	1546.069	1536.590
169.0	1566.140	1551.644	1545.511	1548.856	1539.936
169.5	1568.928	1554.432	1548.299	1551.644	1543.281
170.0	1571.716	1557.220	1551.087	1554.432	1547.184
170.5	1574.503	1560.007	1553.317	1557.220	1549.971
171.0	1577.291	1562.237	1555.547	1560.007	1552.759
171.5	1579.521	1564.468	1557.777	1562.795	1555.547
172.0	1581.751	1566.698	1559.450	1565.025	1557.777
172.5	1583.982	1568.928	1561.122	1566.698	1559.450
173.0	1586.212	1571.158	1562.795	1568.928	1560.565
173.5	1587.884	1572.831	1564.468	1570.043	1561.680
174.0	1589.557	1574.503	1566.140	1571.158	1562.237
174.5	1590.672	1575.618	1567.255	1572.273	1562.795
175.0	1591.787	1577.291	1568.370	1572.831	1562.795
175.5	1592.902	1578.406	1570.043	1573.388	1563.353
176.0	1594.017	1579.521	1571.158	1573.388	1563.353
176.5	1594.575	1580.636	1571.716	1573.946	1563.353
177.0	1595.133	1581.751	1572.831	1573.946	1562.795
177.5	1596.248	1582.867	1573.946	1573.946	1562.795
178.0	1596.805	1582.867	1574.503	1573.946	1563.353
178.5	1596.805	1583.424	1575.061	1573.946	1563.353
179.0	1597.363	1583.982	1575.061	1573.946	1563.353
179.5	1597.920	1583.982	1575.618	1573.946	1563.353
180.0	1578.406	1578.406	1578.406	1578.406	1578.406

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	579.49	N.A.	7.10
0-30	1211.51	N.A.	14.90
0-40	1946.31	N.A.	24.00
0-60	3307.22	N.A.	40.70
0-80	4050.06	N.A.	49.90
0-90	4128.55	N.A.	50.80
10-90	3977.29	N.A.	49.00
20-40	1366.82	N.A.	16.80
20-50	2096.26	N.A.	25.80
40-70	1833.87	N.A.	22.60
60-80	742.84	N.A.	9.10
70-80	269.88	N.A.	3.30
80-90	78.49	N.A.	1.00
90-110	228.42	N.A.	2.80
90-120	586.38	N.A.	7.20
90-130	1187.91	N.A.	14.60
90-150	2763.00	N.A.	34.00
90-180	3993.26	N.A.	49.20
110-180	3764.84	N.A.	46.40
0-180	8121.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.26
10-20	428.23
20-30	632.02
30-40	734.80
40-50	729.44
50-60	631.47
60-70	472.96
70-80	269.88
80-90	78.49
90-100	49.27
100-110	179.16
110-120	357.96
120-130	601.53
130-140	786.56
140-150	788.52
150-160	651.36
160-170	429.22
170-180	149.68

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-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-L12-930U-L12-930D-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	19.0	19.8	21.0	16.1	17.0	17.1	18.0
	4H	18.6	19.4	19.6	20.3	21.6	17.9	18.7	18.9	19.7
	6H	19.0	19.7	20.0	20.7	22.0	18.5	19.3	19.5	20.3
	8H	19.2	19.8	20.2	20.8	22.1	19.0	19.7	20.0	20.7
	12H	19.3	19.9	20.3	20.9	22.2	19.1	19.8	20.1	20.8

4H	2H	16.8	17.5	17.7	18.5	19.8	19.2	19.9	20.2	20.9
	3H	18.7	19.4	19.7	20.4	21.7	16.7	17.4	17.7	18.4
	4H	19.5	20.0	20.5	21.0	22.4	18.7	19.3	19.7	20.3
	6H	20.0	20.5	21.0	21.5	22.9	19.4	20.0	20.4	21.0
	8H	20.2	20.7	21.2	21.7	23.0	20.0	20.5	21.0	21.5
	12H	20.3	20.7	21.3	21.8	23.1	20.2	20.7	21.2	21.7

8H	4H	19.7	20.2	20.7	21.2	22.5	20.3	20.8	21.4	21.8
	6H	20.4	20.8	21.4	21.8	23.2	16.7	17.4	17.7	18.4
	8H	20.7	21.0	21.7	22.0	23.4	18.7	19.3	19.7	20.3
	12H	20.9	21.2	21.9	22.2	23.6	19.4	20.0	20.4	21.0

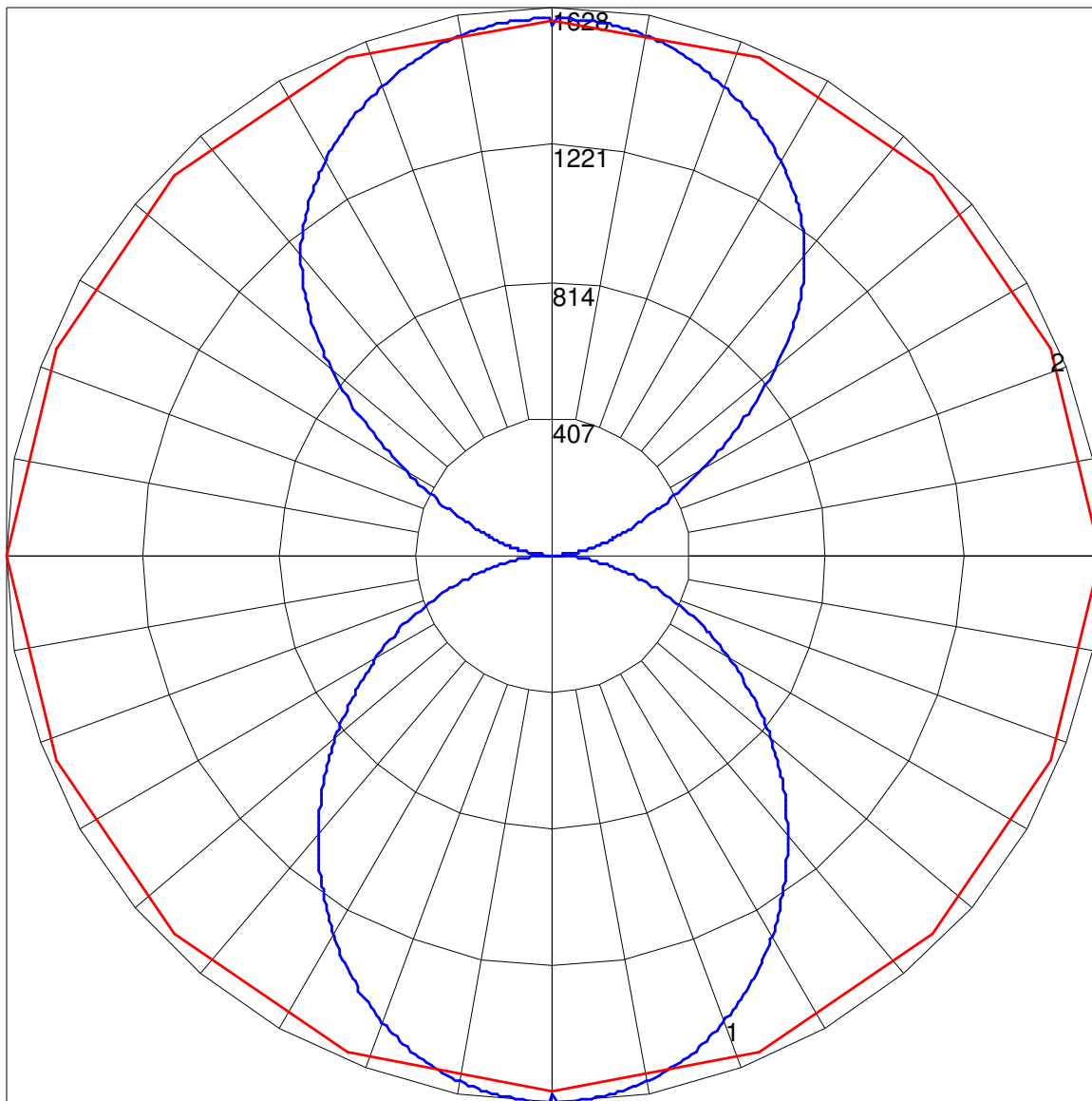
12H	4H	19.7	20.1	20.7	21.2	22.5	20.0	20.5	21.0	21.5
	6H	20.5	20.8	21.5	21.8	23.2	20.2	20.7	21.2	21.7
	8H	20.7	21.0	21.8	22.1	23.5	20.3	20.8	21.4	21.8

Maximum UGR = 23.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L12-930D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1627.639 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.)