

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-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-L15-930D-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	9026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	91.8
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	12281	11974	11837
55	11289	11016	10900
65	10412	10161	10051
75	8830	8825	8821
85	6896	7173	7381

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-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	1781.980	1781.980	1781.980	1781.980	1781.980
0.5	1808.889	1783.475	1774.506	1778.243	1772.263
1.0	1808.889	1782.728	1774.506	1778.243	1772.263
1.5	1808.142	1781.980	1773.758	1778.243	1771.516
2.0	1807.395	1781.233	1773.011	1777.496	1771.516
2.5	1806.647	1780.485	1771.516	1776.748	1770.768
3.0	1805.152	1778.990	1770.768	1776.001	1769.273
3.5	1803.657	1777.496	1769.273	1774.506	1767.778
4.0	1802.162	1776.001	1767.778	1773.011	1766.283
4.5	1800.667	1773.758	1766.283	1771.516	1764.041
5.0	1799.172	1772.263	1764.041	1769.273	1761.799
5.5	1796.930	1770.021	1761.799	1767.031	1759.556
6.0	1794.687	1767.031	1759.556	1764.788	1756.566
6.5	1791.698	1764.788	1756.566	1761.799	1754.324
7.0	1789.455	1761.799	1754.324	1758.809	1751.334
7.5	1787.213	1758.809	1751.334	1755.819	1749.091
8.0	1783.475	1755.819	1747.597	1752.829	1746.102
8.5	1780.485	1752.081	1743.859	1749.091	1742.364
9.0	1776.748	1749.091	1740.869	1745.354	1738.627
9.5	1773.011	1745.354	1736.384	1740.869	1734.889
10.0	1769.273	1741.617	1732.647	1737.132	1730.405
10.5	1764.788	1737.132	1728.162	1732.647	1726.667
11.0	1761.051	1732.647	1723.677	1728.162	1721.435
11.5	1755.819	1728.162	1719.192	1723.677	1716.950
12.0	1751.334	1723.677	1714.708	1718.445	1711.718
12.5	1746.849	1718.445	1709.475	1713.213	1706.485
13.0	1741.617	1713.960	1704.243	1707.980	1701.253
13.5	1736.384	1707.980	1699.011	1702.001	1696.021
14.0	1731.152	1702.748	1693.031	1696.768	1690.788
14.5	1725.920	1697.516	1687.051	1690.788	1684.809
15.0	1720.687	1691.536	1681.071	1684.809	1678.829
15.5	1713.960	1686.304	1675.091	1678.081	1672.102
16.0	1706.485	1680.324	1668.364	1672.102	1666.122
16.5	1699.011	1673.597	1661.637	1665.374	1659.394
17.0	1692.283	1666.869	1654.910	1658.647	1652.667
17.5	1684.809	1659.394	1647.435	1651.172	1645.192
18.0	1677.334	1651.920	1639.960	1643.698	1637.718
18.5	1669.859	1644.445	1632.485	1635.475	1630.243
19.0	1662.384	1636.970	1625.758	1628.001	1621.273
19.5	1654.162	1629.495	1618.283	1619.031	1612.304
20.0	1646.687	1621.273	1611.556	1610.809	1603.334
20.5	1638.465	1613.799	1604.081	1601.839	1594.364
21.0	1630.243	1605.576	1595.859	1592.869	1584.647
21.5	1621.273	1597.354	1586.889	1583.900	1574.930
22.0	1613.051	1588.384	1577.172	1574.182	1565.960
22.5	1604.081	1579.415	1568.203	1564.465	1556.243
23.0	1595.112	1570.445	1559.233	1554.001	1546.526
23.5	1586.142	1561.475	1549.516	1544.283	1537.556
24.0	1576.425	1552.506	1540.546	1534.566	1527.839
24.5	1566.708	1542.788	1530.829	1524.849	1518.122
25.0	1557.738	1533.071	1521.112	1515.132	1508.405
25.5	1548.021	1523.354	1510.647	1505.415	1497.940
26.0	1537.556	1512.889	1500.930	1495.697	1488.223
26.5	1527.839	1503.172	1490.465	1485.980	1478.506

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1517.374	1492.708	1480.000	1476.263	1468.041
27.5	1506.910	1482.243	1470.283	1466.546	1458.324
28.0	1496.445	1471.031	1459.071	1456.081	1447.859
28.5	1485.233	1459.819	1448.607	1446.364	1437.394
29.0	1474.021	1449.354	1438.142	1435.899	1426.930
29.5	1463.556	1438.142	1427.677	1424.687	1417.213
30.0	1452.344	1426.930	1417.213	1414.223	1406.748
30.5	1441.132	1415.718	1406.000	1403.758	1396.283
31.0	1429.172	1405.253	1394.788	1392.546	1385.819
31.5	1417.960	1394.041	1383.576	1381.334	1374.607
32.0	1406.000	1382.081	1372.364	1369.374	1363.394
32.5	1394.041	1370.869	1361.152	1358.162	1351.435
33.0	1382.081	1359.657	1349.940	1346.950	1339.475
33.5	1370.869	1347.697	1337.980	1334.990	1328.263
34.0	1358.162	1335.738	1326.768	1323.031	1316.303
34.5	1346.202	1323.778	1314.061	1311.071	1303.596
35.0	1334.243	1312.566	1302.101	1299.112	1290.889
35.5	1321.536	1299.859	1290.142	1287.152	1278.182
36.0	1308.829	1287.899	1278.182	1274.445	1266.223
36.5	1296.869	1275.940	1266.223	1262.485	1254.263
37.0	1284.162	1263.233	1253.516	1249.778	1241.556
37.5	1271.455	1250.526	1241.556	1237.071	1229.596
38.0	1258.000	1237.819	1228.849	1224.364	1216.889
38.5	1245.293	1225.112	1216.142	1212.404	1204.182
39.0	1233.334	1212.404	1203.435	1199.697	1192.223
39.5	1219.879	1199.697	1191.475	1186.990	1178.768
40.0	1207.172	1186.243	1178.768	1174.283	1166.808
40.5	1193.718	1173.536	1166.061	1161.576	1154.101
41.0	1181.010	1160.081	1153.354	1148.122	1140.647
41.5	1167.556	1147.374	1139.899	1135.415	1127.192
42.0	1154.849	1133.920	1127.192	1122.707	1114.485
42.5	1142.142	1121.212	1114.485	1109.253	1101.778
43.0	1128.687	1108.505	1101.778	1096.546	1088.324
43.5	1115.980	1095.051	1088.324	1083.839	1075.617
44.0	1102.526	1081.596	1074.869	1070.384	1062.909
44.5	1089.071	1068.142	1061.414	1056.930	1049.455
45.0	1075.617	1055.435	1048.707	1043.475	1036.748
45.5	1062.909	1041.980	1035.253	1030.768	1024.041
46.0	1049.455	1028.526	1021.798	1017.313	1011.334
46.5	1036.000	1015.071	1009.091	1004.606	998.627
47.0	1022.546	1001.616	995.637	991.152	985.172
47.5	1008.344	988.162	982.182	977.697	972.465
48.0	994.889	974.707	968.728	964.990	959.010
48.5	981.435	961.253	956.021	951.536	945.556
49.0	967.233	947.798	942.566	938.081	932.849
49.5	953.778	934.344	929.111	925.374	920.142
50.0	939.576	920.889	915.657	911.919	906.687
50.5	925.374	907.435	902.202	898.465	893.980
51.0	911.172	893.980	888.748	885.010	880.526
51.5	897.717	880.526	875.293	872.303	867.071
52.0	884.263	867.071	861.839	858.849	854.364
52.5	870.061	853.616	848.384	846.142	840.909
53.0	856.606	840.162	834.930	832.687	827.455
53.5	842.404	826.707	821.475	819.233	814.000
54.0	828.950	813.253	808.768	806.526	800.546
54.5	815.495	800.546	795.313	793.071	787.091

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

55.0	802.041	787.839	782.606	780.364	774.384
55.5	789.334	774.384	769.152	766.909	761.677
56.0	775.132	760.930	755.697	754.202	748.222
56.5	761.677	748.222	742.616	740.972	735.067
57.0	748.970	734.768	729.386	727.592	721.986
57.5	735.814	721.762	716.231	714.586	708.756
58.0	722.659	708.905	703.000	701.505	695.675
58.5	709.428	695.974	689.994	688.649	683.117
59.0	696.422	682.968	676.913	675.643	670.336
59.5	683.790	669.812	663.608	662.711	657.703
60.0	670.859	656.732	650.453	649.705	644.847
60.5	658.077	643.950	637.746	636.624	631.841
61.0	645.519	631.168	625.113	623.843	619.134
61.5	632.065	618.536	612.556	611.136	606.576
62.0	618.835	605.529	599.550	598.503	593.719
62.5	605.305	593.495	587.291	586.469	581.536
63.0	592.299	582.881	577.873	577.499	573.463
63.5	579.144	571.295	567.334	566.511	562.325
64.0	571.220	560.008	556.420	554.776	549.992
64.5	558.887	547.974	544.087	542.592	538.107
65.0	545.059	535.117	531.903	530.483	526.148
65.5	530.932	522.111	519.196	518.523	514.113
66.0	517.327	509.404	506.788	506.489	501.780
66.5	503.873	496.398	494.156	494.156	489.970
67.0	490.568	483.467	481.673	481.897	478.085
67.5	477.487	470.760	469.115	469.564	465.826
68.0	464.257	458.053	456.558	457.156	453.269
68.5	450.952	445.121	443.925	444.748	440.936
69.0	437.198	432.115	431.218	431.667	428.154
69.5	423.818	419.333	418.287	418.810	415.596
70.0	410.588	406.402	405.655	405.879	403.039
70.5	397.582	393.396	392.873	393.097	390.406
71.0	384.277	380.465	380.315	380.614	377.699
71.5	370.972	367.533	367.832	368.057	365.515
72.0	358.041	354.527	355.125	355.424	353.257
72.5	345.109	341.746	342.717	343.016	341.222
73.0	332.327	329.263	330.608	330.982	329.412
73.5	319.919	316.929	318.499	319.172	317.453
74.0	307.661	304.596	306.539	307.063	305.942
74.5	295.402	292.487	294.655	295.178	294.356
75.0	283.069	280.453	282.919	283.443	282.770
75.5	270.885	268.418	271.259	271.931	271.184
76.0	258.552	256.832	259.748	260.495	259.897
76.5	246.891	245.396	248.311	249.133	248.610
77.0	235.529	233.885	237.099	237.847	237.024
77.5	223.794	222.673	225.887	226.485	225.663
78.0	212.358	211.461	214.675	215.572	214.750
78.5	200.996	200.548	203.612	204.659	203.986
79.0	190.083	189.634	192.774	194.045	193.521
79.5	179.170	178.945	182.085	183.430	182.982
80.0	168.406	168.481	171.396	173.265	172.667
80.5	157.568	158.240	161.230	163.024	162.576
81.0	147.178	148.224	151.139	153.008	152.709
81.5	137.162	138.283	141.273	143.142	142.917
82.0	127.818	128.566	131.630	133.574	133.350
82.5	118.475	119.147	122.137	124.081	123.931

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

83.0	109.131	110.178	112.794	114.812	114.962
83.5	99.937	101.208	103.749	105.693	106.141
84.0	91.341	92.388	94.780	96.649	97.321
84.5	82.596	83.717	85.960	87.828	88.501
85.0	74.449	75.345	77.438	79.083	79.681
85.5	66.525	66.974	68.768	70.487	71.085
86.0	58.752	58.901	60.471	62.040	62.788
86.5	51.053	51.053	52.473	53.893	54.566
87.0	43.279	43.279	44.325	46.119	46.642
87.5	35.580	35.655	36.626	38.420	39.093
88.0	28.255	28.180	29.152	31.095	31.842
88.5	21.228	20.780	22.051	23.770	24.816
89.0	13.754	13.529	15.248	16.893	18.014
89.5	6.354	7.549	9.119	10.390	10.764
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.585	2.417	2.231	2.169	2.355
91.0	10.100	5.329	4.337	4.275	4.213
91.5	16.234	10.844	6.444	6.382	6.320
92.0	22.431	18.031	9.294	8.303	8.303
92.5	28.875	25.467	14.375	10.410	10.224
93.0	35.567	32.593	20.324	13.818	12.455
93.5	42.321	39.409	26.706	18.651	16.234
94.0	48.951	46.101	33.770	24.413	21.377
94.5	55.767	52.793	41.143	30.362	26.954
95.0	62.459	59.670	48.393	36.434	32.469
95.5	69.151	66.115	55.457	42.693	38.293
96.0	75.533	72.683	62.397	49.199	44.242
96.5	81.977	79.251	69.337	55.829	50.376
97.0	88.235	85.695	76.215	62.459	56.882
97.5	94.680	92.201	83.154	69.213	63.388
98.0	101.062	98.583	89.908	75.905	69.956
98.5	107.444	105.027	96.415	82.721	76.524
99.0	113.950	111.657	103.045	89.227	83.154
99.5	120.518	118.226	109.737	95.733	89.661
100.0	126.962	124.856	116.429	102.425	96.043
100.5	133.654	131.486	123.121	109.365	102.487
101.0	140.532	138.116	129.937	116.367	109.489
101.5	147.534	144.870	136.876	123.368	116.738
102.0	154.350	151.871	143.816	130.370	123.926
102.5	161.476	158.811	151.004	137.372	131.052
103.0	168.787	165.999	158.130	144.312	138.302
103.5	176.099	173.311	165.689	151.748	145.489
104.0	183.597	180.684	173.373	159.431	152.987
104.5	191.342	188.368	181.056	167.300	160.484
105.0	199.273	196.237	188.678	175.046	168.106
105.5	207.390	204.230	196.547	182.853	175.665
106.0	215.631	212.285	204.540	190.784	183.225
106.5	223.935	220.589	212.905	198.778	190.846
107.0	232.795	229.263	221.828	207.266	199.149
107.5	241.966	238.186	230.874	216.251	208.134
108.0	251.074	247.357	240.107	225.979	217.366
108.5	260.679	256.713	249.339	235.707	226.909
109.0	270.531	266.255	258.820	245.560	236.575
109.5	280.631	276.169	268.796	255.350	246.365
110.0	291.412	286.331	279.020	265.388	256.589
110.5	302.442	296.741	289.491	276.169	267.185

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

111.0	313.595	307.647	300.335	287.385	277.842
111.5	324.996	318.862	311.364	298.786	288.810
112.0	336.831	330.387	322.332	310.187	299.282
112.5	348.728	342.222	333.423	321.526	310.373
113.0	361.183	354.429	345.134	333.237	321.960
113.5	374.009	367.193	357.527	345.878	334.415
114.0	387.021	380.205	370.663	359.324	348.232
114.5	400.467	393.651	384.047	373.327	362.918
115.0	414.099	407.469	397.927	387.455	377.789
115.5	428.351	421.411	412.178	401.521	392.474
116.0	442.726	435.910	426.925	416.330	407.407
116.5	457.907	450.781	442.168	431.511	423.332
117.0	473.708	465.962	457.535	447.869	439.752
117.5	485.357	477.797	471.601	462.926	456.420
118.0	500.228	491.615	486.038	478.479	471.229
118.5	517.515	508.097	500.785	492.916	484.551
119.0	534.431	524.331	517.515	509.274	499.360
119.5	551.533	541.619	535.237	525.881	515.966
120.0	569.193	559.526	553.020	544.036	533.502
120.5	586.728	577.682	571.361	563.306	552.215
121.0	605.131	596.209	589.826	582.515	572.105
121.5	623.348	614.550	608.229	601.971	591.561
122.0	642.557	633.262	627.686	621.490	611.080
122.5	661.146	651.851	646.894	640.698	629.545
123.0	680.354	671.680	666.723	661.766	649.993
123.5	700.183	691.508	687.790	682.833	671.060
124.0	720.011	711.956	708.238	703.900	692.747
124.5	739.839	731.784	728.686	724.348	713.814
125.0	759.667	751.612	748.514	744.796	734.262
125.5	780.115	772.060	768.962	765.244	754.090
126.0	799.943	791.888	790.029	785.692	773.919
126.5	819.771	811.716	811.096	807.379	794.986
127.0	840.219	832.164	832.164	829.066	817.293
127.5	860.667	851.992	851.992	850.133	839.599
128.0	880.495	871.820	872.440	871.201	860.667
128.5	900.323	891.029	892.268	892.268	881.115
129.0	920.151	910.237	912.096	912.716	902.182
129.5	939.980	930.066	932.544	933.783	923.869
130.0	959.808	949.894	952.992	954.851	946.796
130.5	979.636	969.102	974.059	975.299	968.483
131.0	999.464	988.311	993.888	995.127	988.311
131.5	1018.053	1006.900	1013.716	1013.716	1007.519
132.0	1037.262	1025.489	1032.924	1033.544	1026.108
132.5	1055.851	1044.697	1052.133	1052.752	1044.697
133.0	1074.440	1063.906	1070.722	1071.961	1062.667
133.5	1093.028	1082.495	1089.930	1091.170	1081.875
134.0	1111.617	1100.464	1107.900	1109.758	1100.464
134.5	1128.347	1118.433	1125.249	1126.488	1118.433
135.0	1145.077	1135.783	1141.979	1143.218	1134.544
135.5	1161.188	1153.752	1158.709	1159.329	1150.654
136.0	1177.298	1170.482	1174.200	1176.059	1167.384
136.5	1194.028	1186.593	1189.691	1192.789	1184.734
137.0	1209.519	1202.703	1205.801	1208.280	1200.844
137.5	1225.010	1217.574	1220.672	1222.531	1215.096
138.0	1239.881	1232.445	1234.924	1236.163	1228.728
138.5	1254.752	1246.697	1249.175	1249.795	1241.740

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1269.004	1260.948	1263.427	1263.427	1254.752
139.5	1283.255	1275.200	1277.059	1276.439	1267.145
140.0	1296.887	1288.212	1290.691	1290.071	1280.776
140.5	1309.899	1300.605	1303.083	1302.464	1292.549
141.0	1322.911	1313.617	1315.476	1314.237	1304.322
141.5	1334.684	1325.390	1327.868	1326.010	1314.856
142.0	1347.077	1337.783	1339.641	1337.163	1326.010
142.5	1358.850	1349.555	1351.414	1348.936	1336.543
143.0	1370.623	1360.709	1362.568	1360.089	1347.697
143.5	1381.776	1372.482	1373.721	1371.243	1358.230
144.0	1392.310	1383.635	1384.255	1381.157	1368.144
144.5	1402.844	1394.169	1394.789	1391.071	1378.059
145.0	1412.758	1404.703	1404.703	1400.365	1387.353
145.5	1423.292	1415.236	1414.617	1410.899	1397.267
146.0	1433.206	1425.150	1424.531	1420.193	1407.181
146.5	1443.120	1435.065	1433.825	1430.107	1417.095
147.0	1452.414	1444.979	1442.500	1440.022	1427.009
147.5	1461.709	1454.273	1451.795	1449.316	1436.304
148.0	1471.003	1463.568	1459.850	1457.991	1446.218
148.5	1480.298	1472.862	1467.905	1466.666	1456.132
149.0	1488.972	1482.156	1475.960	1475.341	1466.046
149.5	1497.647	1490.831	1483.396	1484.015	1475.341
150.0	1506.322	1499.506	1491.451	1492.071	1484.015
150.5	1514.997	1508.181	1498.886	1499.506	1492.690
151.0	1523.052	1516.236	1506.322	1506.942	1500.745
151.5	1531.727	1524.291	1514.377	1514.377	1508.181
152.0	1539.782	1532.347	1521.813	1521.193	1515.617
152.5	1547.837	1539.782	1529.248	1528.629	1522.432
153.0	1555.892	1547.218	1536.684	1536.064	1528.629
153.5	1563.328	1554.653	1544.120	1543.500	1534.205
154.0	1570.764	1562.089	1552.175	1550.935	1540.402
154.5	1578.819	1568.905	1559.610	1557.751	1546.598
155.0	1586.254	1575.721	1567.046	1565.187	1553.414
155.5	1593.070	1581.917	1574.481	1572.623	1560.230
156.0	1599.886	1588.733	1582.537	1579.438	1567.046
156.5	1606.702	1595.549	1589.972	1586.874	1573.862
157.0	1613.518	1602.365	1597.408	1594.310	1580.678
157.5	1619.714	1608.561	1604.224	1601.126	1587.494
158.0	1625.911	1614.757	1611.040	1607.941	1594.310
158.5	1632.727	1621.573	1617.856	1614.757	1601.745
159.0	1638.303	1627.770	1624.052	1621.573	1608.561
159.5	1644.500	1633.966	1630.248	1628.389	1615.377
160.0	1650.076	1639.543	1636.444	1634.586	1622.193
160.5	1655.653	1645.119	1642.021	1640.782	1629.009
161.0	1661.230	1650.696	1647.598	1646.978	1635.825
161.5	1666.806	1656.892	1652.555	1653.175	1642.641
162.0	1673.003	1662.469	1657.512	1659.371	1648.837
162.5	1678.579	1668.046	1662.469	1664.947	1654.414
163.0	1684.156	1673.622	1667.426	1670.524	1659.990
163.5	1689.733	1678.579	1672.383	1676.101	1664.947
164.0	1695.309	1683.536	1676.720	1681.058	1669.905
164.5	1699.647	1688.493	1681.058	1686.015	1674.862
165.0	1704.604	1693.450	1685.395	1690.972	1679.199
165.5	1709.561	1697.788	1689.733	1695.309	1683.536
166.0	1714.518	1702.125	1694.070	1699.647	1687.254
166.5	1719.475	1706.463	1698.408	1703.365	1691.592

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1723.812	1710.181	1702.125	1707.082	1695.309
167.5	1728.150	1713.898	1706.463	1710.800	1699.647
168.0	1732.487	1717.616	1710.181	1714.518	1703.365
168.5	1736.825	1721.334	1713.898	1718.236	1707.702
169.0	1740.542	1724.432	1717.616	1721.334	1711.420
169.5	1743.641	1727.530	1720.714	1724.432	1715.138
170.0	1746.739	1730.628	1723.812	1727.530	1719.475
170.5	1749.837	1733.726	1726.291	1730.628	1722.573
171.0	1752.935	1736.205	1728.769	1733.726	1725.671
171.5	1755.414	1738.684	1731.248	1736.825	1728.769
172.0	1757.892	1741.162	1733.107	1739.303	1731.248
172.5	1760.371	1743.641	1734.966	1741.162	1733.107
173.0	1762.849	1746.119	1736.825	1743.641	1734.346
173.5	1764.708	1747.978	1738.684	1744.880	1735.585
174.0	1766.567	1749.837	1740.542	1746.119	1736.205
174.5	1767.806	1751.076	1741.782	1747.358	1736.825
175.0	1769.045	1752.935	1743.021	1747.978	1736.825
175.5	1770.285	1754.174	1744.880	1748.598	1737.444
176.0	1771.524	1755.414	1746.119	1748.598	1737.444
176.5	1772.144	1756.653	1746.739	1749.217	1737.444
177.0	1772.763	1757.892	1747.978	1749.217	1736.825
177.5	1774.002	1759.131	1749.217	1749.217	1736.825
178.0	1774.622	1759.131	1749.837	1749.217	1737.444
178.5	1774.622	1759.751	1750.457	1749.217	1737.444
179.0	1775.242	1760.371	1750.457	1749.217	1737.444
179.5	1775.861	1760.371	1751.076	1749.217	1737.444
180.0	1754.174	1754.174	1754.174	1754.174	1754.174

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	644.02	N.A.	7.10
0-30	1346.42	N.A.	14.90
0-40	2163.05	N.A.	24.00
0-60	3675.5	N.A.	40.70
0-80	4501.06	N.A.	49.90
0-90	4588.29	N.A.	50.80
10-90	4420.19	N.A.	49.00
20-40	1519.03	N.A.	16.80
20-50	2329.69	N.A.	25.80
40-70	2038.08	N.A.	22.60
60-80	825.56	N.A.	9.10
70-80	299.93	N.A.	3.30
80-90	87.23	N.A.	1.00
90-110	253.86	N.A.	2.80
90-120	651.68	N.A.	7.20
90-130	1320.2	N.A.	14.60
90-150	3070.68	N.A.	34.00
90-180	4437.94	N.A.	49.20
110-180	4184.08	N.A.	46.40
0-180	9026.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.10
10-20	475.92
20-30	702.40
30-40	816.62
40-50	810.66
50-60	701.79
60-70	525.63
70-80	299.93
80-90	87.23
90-100	54.75
100-110	199.11
110-120	397.82
120-130	668.52
130-140	874.15
140-150	876.33
150-160	723.89
160-170	477.02
170-180	166.35

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-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-L15-930D-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	16.5	17.4	17.5	18.4	19.6	16.4	17.3	17.4	18.3	19.5
	3H	18.3	19.1	19.3	20.1	21.3	18.2	19.0	19.2	20.0	21.2
	4H	18.9	19.7	19.9	20.6	21.9	18.8	19.6	19.8	20.6	21.8
	6H	19.3	20.0	20.3	21.0	22.3	19.3	20.0	20.3	21.0	22.3
	8H	19.5	20.1	20.5	21.1	22.4	19.4	20.1	20.4	21.1	22.4
	12H	19.6	20.2	20.6	21.2	22.5	19.5	20.2	20.5	21.2	22.5

UGR Viewed Endwise

4H	2H	17.1	17.8	18.0	18.8	20.1	17.0	17.7	18.0	18.7	20.0
	3H	19.0	19.7	20.0	20.7	22.0	19.0	19.6	20.0	20.6	21.9
	4H	19.8	20.3	20.8	21.3	22.7	19.7	20.3	20.7	21.3	22.6
	6H	20.3	20.8	21.3	21.8	23.2	20.3	20.8	21.3	21.8	23.1
	8H	20.5	21.0	21.5	22.0	23.3	20.5	21.0	21.5	22.0	23.3
	12H	20.6	21.0	21.6	22.1	23.4	20.6	21.1	21.7	22.1	23.4

8H	4H	20.0	20.5	21.0	21.5	22.8	20.0	20.4	21.0	21.4	22.8
	6H	20.7	21.1	21.7	22.1	23.5	20.7	21.1	21.7	22.1	23.5
	8H	21.0	21.3	22.0	22.3	23.7	21.0	21.3	22.0	22.4	23.7
	12H	21.2	21.5	22.2	22.5	23.9	21.2	21.5	22.2	22.5	23.9

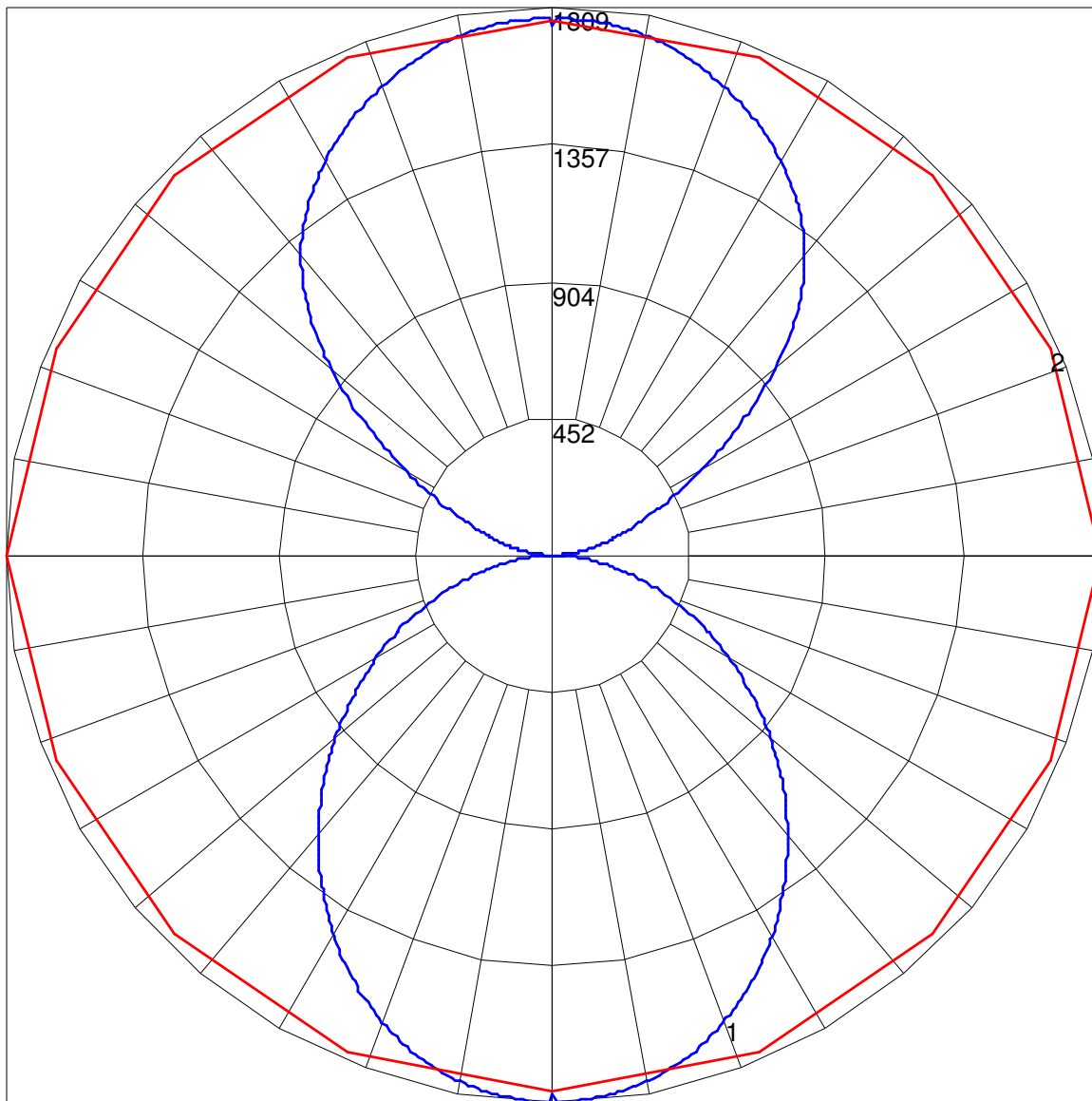
12H	4H	20.0	20.4	21.0	21.5	22.8	20.0	20.4	21.0	21.4	22.8
	6H	20.8	21.1	21.8	22.1	23.5	20.7	21.1	21.8	22.1	23.5
	8H	21.0	21.3	22.1	22.4	23.8	21.1	21.4	22.1	22.4	23.8

Maximum UGR = 23.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-930U-L15-930D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1808.889 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.)