

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-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-L12-950U-L15-950D-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	9797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	13329	12996	12848
55	12253	11956	11830
65	11301	11029	10909
75	9584	9579	9574
85	7485	7786	8011

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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	1934.101	1934.101	1934.101	1934.101	1934.101
0.5	1963.307	1935.723	1925.988	1930.044	1923.554
1.0	1963.307	1934.912	1925.988	1930.044	1923.554
1.5	1962.496	1934.101	1925.177	1930.044	1922.743
2.0	1961.684	1933.289	1924.365	1929.233	1922.743
2.5	1960.873	1932.478	1922.743	1928.422	1921.931
3.0	1959.251	1930.856	1921.931	1927.610	1920.309
3.5	1957.628	1929.233	1920.309	1925.988	1918.686
4.0	1956.005	1927.610	1918.686	1924.365	1917.064
4.5	1954.383	1925.177	1917.064	1922.743	1914.630
5.0	1952.760	1923.554	1914.630	1920.309	1912.196
5.5	1950.326	1921.120	1912.196	1917.875	1909.762
6.0	1947.893	1917.875	1909.762	1915.441	1906.517
6.5	1944.647	1915.441	1906.517	1912.196	1904.083
7.0	1942.214	1912.196	1904.083	1908.951	1900.838
7.5	1939.780	1908.951	1900.838	1905.706	1898.404
8.0	1935.723	1905.706	1896.782	1902.461	1895.159
8.5	1932.478	1901.649	1892.725	1898.404	1891.103
9.0	1928.422	1898.404	1889.480	1894.348	1887.046
9.5	1924.365	1894.348	1884.612	1889.480	1882.990
10.0	1920.309	1890.291	1880.556	1885.424	1878.122
10.5	1915.441	1885.424	1875.688	1880.556	1874.066
11.0	1911.385	1880.556	1870.821	1875.688	1868.387
11.5	1905.706	1875.688	1865.953	1870.821	1863.519
12.0	1900.838	1870.821	1861.085	1865.142	1857.840
12.5	1895.970	1865.142	1855.406	1859.463	1852.161
13.0	1890.291	1860.274	1849.727	1853.784	1846.482
13.5	1884.612	1853.784	1844.048	1847.293	1840.803
14.0	1878.933	1848.105	1837.558	1841.614	1835.124
14.5	1873.254	1842.426	1831.068	1835.124	1828.634
15.0	1867.575	1835.935	1824.577	1828.634	1822.144
15.5	1860.274	1830.256	1818.087	1821.332	1814.842
16.0	1852.161	1823.766	1810.786	1814.842	1808.352
16.5	1844.048	1816.465	1803.484	1807.540	1801.050
17.0	1836.747	1809.163	1796.182	1800.239	1793.749
17.5	1828.634	1801.050	1788.070	1792.126	1785.636
18.0	1820.521	1792.937	1779.957	1784.013	1777.523
18.5	1812.408	1784.824	1771.844	1775.089	1769.410
19.0	1804.295	1776.712	1764.542	1766.976	1759.675
19.5	1795.371	1768.599	1756.430	1757.241	1749.939
20.0	1787.258	1759.675	1749.128	1748.317	1740.204
20.5	1778.334	1751.562	1741.015	1738.581	1730.468
21.0	1769.410	1742.638	1732.091	1728.846	1719.922
21.5	1759.675	1733.714	1722.356	1719.110	1709.375
22.0	1750.751	1723.978	1711.809	1708.564	1699.640
22.5	1741.015	1714.243	1702.074	1698.017	1689.093
23.0	1731.280	1704.507	1692.338	1686.659	1678.546
23.5	1721.544	1694.772	1681.791	1676.112	1668.811
24.0	1710.998	1685.037	1672.056	1665.566	1658.264
24.5	1700.451	1674.490	1661.509	1655.019	1647.718
25.0	1690.716	1663.943	1650.963	1644.472	1637.171
25.5	1680.169	1653.397	1639.605	1633.926	1625.813
26.0	1668.811	1642.039	1629.058	1623.379	1615.266
26.5	1658.264	1631.492	1617.700	1612.832	1604.719

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27.0	1646.906	1620.134	1606.342	1602.286	1593.361
27.5	1635.548	1608.776	1595.795	1591.739	1582.815
28.0	1624.190	1596.607	1583.626	1580.381	1571.457
28.5	1612.021	1584.437	1572.268	1569.834	1560.099
29.0	1599.852	1573.079	1560.910	1558.476	1548.741
29.5	1588.494	1560.910	1549.552	1546.307	1538.194
30.0	1576.325	1548.741	1538.194	1534.949	1526.836
30.5	1564.155	1536.572	1526.025	1523.591	1515.478
31.0	1551.175	1525.214	1513.856	1511.422	1504.120
31.5	1539.005	1513.044	1501.686	1499.253	1491.951
32.0	1526.025	1500.064	1489.517	1486.272	1479.782
32.5	1513.044	1487.895	1477.348	1474.103	1466.801
33.0	1500.064	1475.725	1465.179	1461.934	1453.821
33.5	1487.895	1462.745	1452.198	1448.953	1441.651
34.0	1474.103	1449.764	1440.029	1435.972	1428.671
34.5	1461.122	1436.784	1426.237	1422.992	1414.879
35.0	1448.142	1424.614	1413.256	1410.011	1401.087
35.5	1434.350	1410.823	1400.276	1397.031	1387.295
36.0	1420.558	1397.842	1387.295	1383.239	1374.315
36.5	1407.577	1384.862	1374.315	1370.258	1361.334
37.0	1393.786	1371.070	1360.523	1356.467	1347.542
37.5	1379.994	1357.278	1347.542	1342.675	1334.562
38.0	1365.391	1343.486	1333.751	1328.883	1320.770
38.5	1351.599	1329.694	1319.959	1315.902	1306.978
39.0	1338.618	1315.902	1306.167	1302.111	1293.998
39.5	1324.015	1302.111	1293.186	1288.319	1279.395
40.0	1310.223	1287.507	1279.395	1274.527	1266.414
40.5	1295.620	1273.716	1265.603	1260.735	1252.622
41.0	1281.828	1259.113	1251.811	1246.132	1238.019
41.5	1267.225	1245.321	1237.208	1232.340	1223.416
42.0	1253.434	1230.718	1223.416	1218.548	1209.624
42.5	1239.642	1216.926	1209.624	1203.945	1195.832
43.0	1225.039	1203.134	1195.832	1190.153	1181.229
43.5	1211.247	1188.531	1181.229	1176.362	1167.437
44.0	1196.644	1173.928	1166.626	1161.758	1153.646
44.5	1182.041	1159.325	1152.023	1147.155	1139.043
45.0	1167.437	1145.533	1138.231	1132.552	1125.251
45.5	1153.646	1130.930	1123.628	1118.760	1111.459
46.0	1139.043	1116.327	1109.025	1104.157	1097.667
46.5	1124.439	1101.723	1095.233	1090.366	1083.875
47.0	1109.836	1087.120	1080.630	1075.762	1069.272
47.5	1094.422	1072.517	1066.027	1061.159	1055.480
48.0	1079.819	1057.914	1051.424	1047.367	1040.877
48.5	1065.216	1043.311	1037.632	1032.764	1026.274
49.0	1049.801	1028.708	1023.029	1018.161	1012.482
49.5	1035.198	1014.105	1008.426	1004.369	998.690
50.0	1019.784	999.502	993.823	989.766	984.087
50.5	1004.369	984.899	979.220	975.163	970.295
51.0	988.955	970.295	964.617	960.560	955.692
51.5	974.352	955.692	950.013	946.768	941.089
52.0	959.749	941.089	935.410	932.165	927.297
52.5	944.334	926.486	920.807	918.373	912.694
53.0	929.731	911.883	906.204	903.770	898.091
53.5	914.317	897.280	891.601	889.167	883.488
54.0	899.714	882.677	877.809	875.375	868.885
54.5	885.111	868.885	863.206	860.772	854.282

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55.0	870.508	855.093	849.414	846.980	840.490
55.5	856.716	840.490	834.811	832.377	826.698
56.0	841.301	825.887	820.208	818.585	812.095
56.5	826.698	812.095	806.011	804.226	797.817
57.0	812.906	797.492	791.651	789.704	783.619
57.5	798.628	783.376	777.372	775.587	769.259
58.0	784.349	769.422	763.013	761.390	755.062
58.5	769.989	755.386	748.896	747.436	741.432
59.0	755.873	741.270	734.699	733.320	727.559
59.5	742.162	726.991	720.258	719.284	713.849
60.0	728.127	712.794	705.979	705.168	699.895
60.5	714.254	698.921	692.187	690.970	685.778
61.0	700.625	685.048	678.477	677.098	671.986
61.5	686.022	671.337	664.847	663.306	658.357
62.0	671.662	657.221	650.731	649.595	644.403
62.5	656.978	644.159	637.426	636.533	631.179
63.0	642.861	632.639	627.204	626.798	622.417
63.5	628.583	620.064	615.764	614.872	610.329
64.0	619.983	607.814	603.920	602.135	596.943
64.5	606.597	594.752	590.534	588.911	584.043
65.0	591.588	580.798	577.310	575.768	571.063
65.5	576.255	566.682	563.518	562.788	558.001
66.0	561.490	552.890	550.050	549.726	544.615
66.5	546.886	538.774	536.340	536.340	531.797
67.0	532.446	524.738	522.791	523.035	518.897
67.5	518.248	510.947	509.162	509.649	505.592
68.0	503.888	497.155	495.532	496.181	491.963
68.5	489.448	483.120	481.822	482.714	478.576
69.0	474.520	469.003	468.030	468.516	464.703
69.5	459.998	455.130	453.994	454.562	451.074
70.0	445.638	441.095	440.284	440.527	437.444
70.5	431.522	426.979	426.411	426.654	423.734
71.0	417.081	412.943	412.781	413.106	409.942
71.5	402.640	398.908	399.233	399.476	396.718
72.0	388.605	384.792	385.441	385.766	383.413
72.5	374.570	370.919	371.974	372.298	370.351
73.0	360.697	357.371	358.831	359.236	357.533
73.5	347.229	343.984	345.688	346.418	344.552
74.0	333.924	330.598	332.707	333.275	332.058
74.5	320.619	317.455	319.808	320.376	319.484
75.0	307.233	304.394	307.071	307.639	306.909
75.5	294.009	291.332	294.415	295.145	294.334
76.0	280.623	278.757	281.921	282.732	282.083
76.5	267.967	266.345	269.509	270.401	269.833
77.0	255.636	253.851	257.339	258.151	257.258
77.5	242.898	241.681	245.170	245.819	244.927
78.0	230.486	229.512	233.001	233.974	233.082
78.5	218.154	217.667	220.994	222.129	221.399
79.0	206.309	205.823	209.230	210.609	210.041
79.5	194.465	194.221	197.629	199.089	198.602
80.0	182.782	182.863	186.027	188.056	187.407
80.5	171.019	171.749	174.994	176.941	176.454
81.0	159.742	160.878	164.042	166.070	165.745
81.5	148.871	150.088	153.333	155.361	155.118
82.0	138.730	139.541	142.867	144.976	144.733
82.5	128.589	129.319	132.564	134.673	134.511

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83.0	118.447	119.583	122.423	124.613	124.775
83.5	108.469	109.848	112.606	114.716	115.202
84.0	99.139	100.275	102.871	104.899	105.629
84.5	89.647	90.864	93.298	95.326	96.056
85.0	80.804	81.777	84.049	85.834	86.483
85.5	72.204	72.691	74.638	76.504	77.153
86.0	63.767	63.929	65.633	67.337	68.148
86.5	55.411	55.411	56.952	58.494	59.224
87.0	46.973	46.973	48.109	50.056	50.624
87.5	38.617	38.698	39.753	41.700	42.430
88.0	30.666	30.585	31.640	33.749	34.561
88.5	23.040	22.554	23.933	25.799	26.935
89.0	14.928	14.684	16.550	18.335	19.552
89.5	6.896	8.194	9.898	11.277	11.682
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.977	2.623	2.421	2.354	2.556
91.0	10.962	5.784	4.708	4.640	4.573
91.5	17.620	11.769	6.994	6.927	6.860
92.0	24.345	19.571	10.088	9.012	9.012
92.5	31.340	27.641	15.603	11.298	11.097
93.0	38.603	35.375	22.059	14.997	13.518
93.5	45.934	42.773	28.986	20.243	17.620
94.0	53.130	50.036	36.653	26.498	23.202
94.5	60.527	57.299	44.656	32.954	29.255
95.0	67.791	64.764	52.524	39.545	35.240
95.5	75.054	71.759	60.191	46.337	41.562
96.0	81.981	78.887	67.723	53.399	48.018
96.5	88.975	86.016	75.256	60.595	54.676
97.0	95.768	93.010	82.721	67.791	61.738
97.5	102.762	100.072	90.253	75.121	68.799
98.0	109.689	106.999	97.584	82.384	75.928
98.5	116.616	113.993	104.645	89.782	83.057
99.0	123.678	121.189	111.841	96.844	90.253
99.5	130.806	128.318	119.104	103.905	97.315
100.0	137.801	135.514	126.368	111.169	104.242
100.5	145.064	142.710	133.631	118.701	111.236
101.0	152.529	149.906	141.029	126.300	118.835
101.5	160.128	157.237	148.561	133.900	126.704
102.0	167.526	164.836	156.093	141.499	134.505
102.5	175.260	172.368	163.895	149.099	142.239
103.0	183.196	180.170	171.629	156.631	150.108
103.5	191.132	188.106	179.833	164.702	157.909
104.0	199.269	196.109	188.173	173.041	166.047
104.5	207.676	204.448	196.512	181.582	174.184
105.0	216.284	212.989	204.784	189.989	182.456
105.5	225.094	221.665	213.325	198.462	190.661
106.0	234.039	230.407	222.001	207.071	198.866
106.5	243.051	239.419	231.080	215.746	207.138
107.0	252.668	248.835	240.764	224.960	216.150
107.5	262.621	258.519	250.583	234.712	225.901
108.0	272.508	268.472	260.604	245.270	235.922
108.5	282.932	278.627	270.624	255.829	246.279
109.0	293.625	288.984	280.914	266.522	256.770
109.5	304.587	299.745	291.742	277.148	267.396
110.0	316.289	310.774	302.838	288.043	278.493
110.5	328.260	322.073	314.204	299.745	289.993

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111.0	340.365	333.909	325.973	311.918	301.561
111.5	352.740	346.082	337.944	324.292	313.464
112.0	365.585	358.591	349.848	336.666	324.830
112.5	378.498	371.436	361.886	348.974	336.868
113.0	392.015	384.685	374.597	361.684	349.444
113.5	405.937	398.539	388.047	375.404	362.962
114.0	420.060	412.662	402.305	389.998	377.960
114.5	434.654	427.256	416.832	405.197	393.898
115.0	449.449	442.253	431.896	420.530	410.039
115.5	464.917	457.385	447.364	435.797	425.978
116.0	480.520	473.122	463.370	451.870	442.186
116.5	496.997	489.263	479.915	468.347	459.470
117.0	514.146	505.740	496.593	486.102	477.292
117.5	526.790	518.585	511.859	502.444	495.383
118.0	542.930	533.582	527.529	519.325	511.456
118.5	561.694	551.471	543.535	534.994	525.915
119.0	580.054	569.091	561.694	552.749	541.989
119.5	598.615	587.855	580.928	570.773	560.012
120.0	617.782	607.291	600.229	590.478	579.045
120.5	636.815	626.996	620.136	611.393	599.355
121.0	656.789	647.104	640.177	632.242	620.943
121.5	676.561	667.011	660.151	653.359	642.061
122.0	697.409	687.322	681.269	674.544	663.245
122.5	717.585	707.497	702.117	695.392	683.286
123.0	738.433	729.018	723.638	718.258	705.480
123.5	759.954	750.539	746.504	741.124	728.346
124.0	781.475	772.732	768.697	763.989	751.884
124.5	802.996	794.253	790.890	786.183	774.750
125.0	824.517	815.774	812.411	808.376	796.943
125.5	846.710	837.967	834.605	830.570	818.464
126.0	868.231	859.488	857.471	852.763	839.985
126.5	889.752	881.009	880.336	876.301	862.851
127.0	911.945	903.202	903.202	899.840	887.062
127.5	934.139	924.723	924.723	922.706	911.273
128.0	955.659	946.244	946.917	945.571	934.139
128.5	977.180	967.092	968.437	968.437	956.332
129.0	998.701	987.941	989.958	990.631	979.198
129.5	1020.222	1009.461	1012.152	1013.497	1002.736
130.0	1041.743	1030.982	1034.345	1036.362	1027.620
130.5	1063.263	1051.831	1057.211	1058.556	1051.158
131.0	1084.784	1072.679	1078.732	1080.077	1072.679
131.5	1104.960	1092.855	1100.252	1100.252	1093.527
132.0	1125.808	1113.030	1121.101	1121.773	1113.703
132.5	1145.984	1133.879	1141.949	1142.622	1133.879
133.0	1166.160	1154.727	1162.125	1163.470	1153.382
133.5	1186.336	1174.903	1182.973	1184.318	1174.230
134.0	1206.512	1194.406	1202.476	1204.494	1194.406
134.5	1224.670	1213.909	1221.307	1222.652	1213.909
135.0	1242.828	1232.740	1239.465	1240.810	1231.395
135.5	1260.314	1252.243	1257.623	1258.296	1248.881
136.0	1277.799	1270.401	1274.437	1276.454	1267.039
136.5	1295.957	1287.887	1291.250	1294.612	1285.870
137.0	1312.771	1305.373	1308.735	1311.426	1303.355
137.5	1329.584	1321.513	1324.876	1326.894	1318.823
138.0	1345.724	1337.654	1340.344	1341.689	1333.619
138.5	1361.865	1353.122	1355.812	1356.485	1347.742

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1377.333	1368.590	1371.280	1371.280	1361.865
139.5	1392.801	1384.058	1386.076	1385.403	1375.316
140.0	1407.597	1398.181	1400.872	1400.199	1390.111
140.5	1421.720	1411.632	1414.322	1413.650	1402.889
141.0	1435.843	1425.755	1427.773	1426.428	1415.667
141.5	1448.621	1438.533	1441.223	1439.205	1427.100
142.0	1462.071	1451.983	1454.001	1451.311	1439.205
142.5	1474.849	1464.761	1466.779	1464.089	1450.638
143.0	1487.627	1476.867	1478.885	1476.194	1462.744
143.5	1499.733	1489.645	1490.990	1488.300	1474.177
144.0	1511.166	1501.750	1502.423	1499.060	1484.937
144.5	1522.599	1513.183	1513.856	1509.821	1495.698
145.0	1533.359	1524.616	1524.616	1519.909	1505.786
145.5	1544.792	1536.049	1535.377	1531.342	1516.546
146.0	1555.552	1546.810	1546.137	1541.429	1527.306
146.5	1566.313	1557.570	1556.225	1552.190	1538.067
147.0	1576.401	1568.330	1565.640	1562.950	1548.827
147.5	1586.489	1578.418	1575.728	1573.038	1558.915
148.0	1596.577	1588.506	1584.471	1582.454	1569.676
148.5	1606.664	1598.594	1593.214	1591.869	1580.436
149.0	1616.080	1608.682	1601.957	1601.284	1591.196
149.5	1625.495	1618.097	1610.027	1610.700	1601.284
150.0	1634.911	1627.513	1618.770	1619.442	1610.700
150.5	1644.326	1636.928	1626.840	1627.513	1620.115
151.0	1653.069	1645.671	1634.911	1635.583	1628.858
151.5	1662.484	1654.414	1643.653	1643.653	1636.928
152.0	1671.227	1663.157	1651.724	1651.051	1644.998
152.5	1679.970	1671.227	1659.794	1659.121	1652.396
153.0	1688.713	1679.297	1667.864	1667.192	1659.121
153.5	1696.783	1687.368	1675.935	1675.262	1665.174
154.0	1704.853	1695.438	1684.677	1683.332	1671.899
154.5	1713.596	1702.836	1692.748	1690.730	1678.625
155.0	1721.666	1710.233	1700.818	1698.801	1686.023
155.5	1729.064	1716.959	1708.888	1706.871	1693.420
156.0	1736.462	1724.356	1717.631	1714.269	1700.818
156.5	1743.860	1731.754	1725.702	1722.339	1708.216
157.0	1751.258	1739.152	1733.772	1730.409	1715.614
157.5	1757.983	1745.877	1741.170	1737.807	1723.011
158.0	1764.708	1752.603	1748.567	1745.205	1730.409
158.5	1772.106	1760.000	1755.965	1752.603	1738.480
159.0	1778.159	1766.726	1762.690	1760.000	1745.877
159.5	1784.884	1773.451	1769.416	1767.398	1753.275
160.0	1790.937	1779.504	1776.141	1774.123	1760.673
160.5	1796.989	1785.556	1782.194	1780.849	1768.071
161.0	1803.042	1791.609	1788.246	1787.574	1775.468
161.5	1809.095	1798.334	1793.627	1794.299	1782.866
162.0	1815.820	1804.387	1799.007	1801.024	1789.592
162.5	1821.873	1810.440	1804.387	1807.077	1795.644
163.0	1827.925	1816.493	1809.767	1813.130	1801.697
163.5	1833.978	1821.873	1815.147	1819.183	1807.077
164.0	1840.031	1827.253	1819.855	1824.563	1812.457
164.5	1844.739	1832.633	1824.563	1829.943	1817.838
165.0	1850.119	1838.013	1829.271	1835.323	1822.545
165.5	1855.499	1842.721	1833.978	1840.031	1827.253
166.0	1860.879	1847.429	1838.686	1844.739	1831.288
166.5	1866.259	1852.136	1843.394	1848.774	1835.996

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1870.967	1856.172	1847.429	1852.809	1840.031
167.5	1875.675	1860.207	1852.136	1856.844	1844.739
168.0	1880.383	1864.242	1856.172	1860.879	1848.774
168.5	1885.090	1868.277	1860.207	1864.914	1853.481
169.0	1889.125	1871.640	1864.242	1868.277	1857.517
169.5	1892.488	1875.002	1867.605	1871.640	1861.552
170.0	1895.851	1878.365	1870.967	1875.002	1866.259
170.5	1899.213	1881.728	1873.657	1878.365	1869.622
171.0	1902.576	1884.418	1876.347	1881.728	1872.985
171.5	1905.266	1887.108	1879.037	1885.090	1876.347
172.0	1907.956	1889.798	1881.055	1887.780	1879.037
172.5	1910.646	1892.488	1883.073	1889.798	1881.055
173.0	1913.336	1895.178	1885.090	1892.488	1882.400
173.5	1915.354	1897.196	1887.108	1893.833	1883.745
174.0	1917.371	1899.213	1889.125	1895.178	1884.418
174.5	1918.716	1900.558	1890.470	1896.523	1885.090
175.0	1920.062	1902.576	1891.815	1897.196	1885.090
175.5	1921.407	1903.921	1893.833	1897.868	1885.763
176.0	1922.752	1905.266	1895.178	1897.868	1885.763
176.5	1923.424	1906.611	1895.851	1898.541	1885.763
177.0	1924.097	1907.956	1897.196	1898.541	1885.090
177.5	1925.442	1909.301	1898.541	1898.541	1885.090
178.0	1926.114	1909.301	1899.213	1898.541	1885.763
178.5	1926.114	1909.974	1899.886	1898.541	1885.763
179.0	1926.787	1910.646	1899.886	1898.541	1885.763
179.5	1927.459	1910.646	1900.558	1898.541	1885.763
180.0	1903.921	1903.921	1903.921	1903.921	1903.921

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	699.00	N.A.	7.10
0-30	1461.36	N.A.	14.90
0-40	2347.7	N.A.	24.00
0-60	3989.26	N.A.	40.70
0-80	4885.3	N.A.	49.90
0-90	4979.98	N.A.	50.80
10-90	4797.53	N.A.	49.00
20-40	1648.7	N.A.	16.80
20-50	2528.57	N.A.	25.80
40-70	2212.07	N.A.	22.60
60-80	896.04	N.A.	9.10
70-80	325.54	N.A.	3.30
80-90	94.68	N.A.	1.00
90-110	275.53	N.A.	2.80
90-120	707.31	N.A.	7.20
90-130	1432.9	N.A.	14.60
90-150	3332.81	N.A.	34.00
90-180	4816.79	N.A.	49.20
110-180	4541.26	N.A.	46.40
0-180	9796.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.45
10-20	516.54
20-30	762.36
30-40	886.34
40-50	879.87
50-60	761.70
60-70	570.50
70-80	325.54
80-90	94.68
90-100	59.43
100-110	216.10
110-120	431.78
120-130	725.59
130-140	948.77
140-150	951.14
150-160	785.69
160-170	517.74
170-180	180.55

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-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-L12-950U-L15-950D-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	16.8	17.7	17.8	18.7	19.9	UGR Viewed Endwise			
	3H	18.6	19.4	19.6	20.4	21.6	16.7	17.6	17.7	18.6
	4H	19.2	20.0	20.2	20.9	22.2	18.5	19.3	19.5	20.3
	6H	19.6	20.3	20.6	21.3	22.6	19.1	19.9	20.1	20.9
	8H	19.8	20.4	20.8	21.4	22.7	19.6	20.3	20.6	21.3
	12H	19.9	20.5	20.9	21.5	22.8	19.7	20.4	20.7	21.4

4H	2H	17.4	18.1	18.3	19.1	20.4	19.8	20.5	20.8	21.5
	3H	19.3	20.0	20.3	21.0	22.3	16.7	17.6	17.7	18.6
	4H	20.1	20.6	21.1	21.6	23.0	18.5	19.3	19.5	20.3
	6H	20.6	21.1	21.6	22.1	23.5	19.1	19.9	20.1	20.9
	8H	20.8	21.3	21.8	22.3	23.6	19.6	20.3	20.6	21.3
	12H	20.9	21.3	21.9	22.4	23.7	19.7	20.4	20.7	21.4

8H	4H	20.3	20.8	21.3	21.8	23.1	19.8	20.5	20.8	21.5
	6H	21.0	21.4	22.0	22.4	23.8	16.7	17.6	17.7	18.6
	8H	21.3	21.6	22.3	22.6	24.0	18.5	19.3	19.5	20.3
	12H	21.5	21.8	22.5	22.8	24.2	19.1	19.9	20.1	20.9

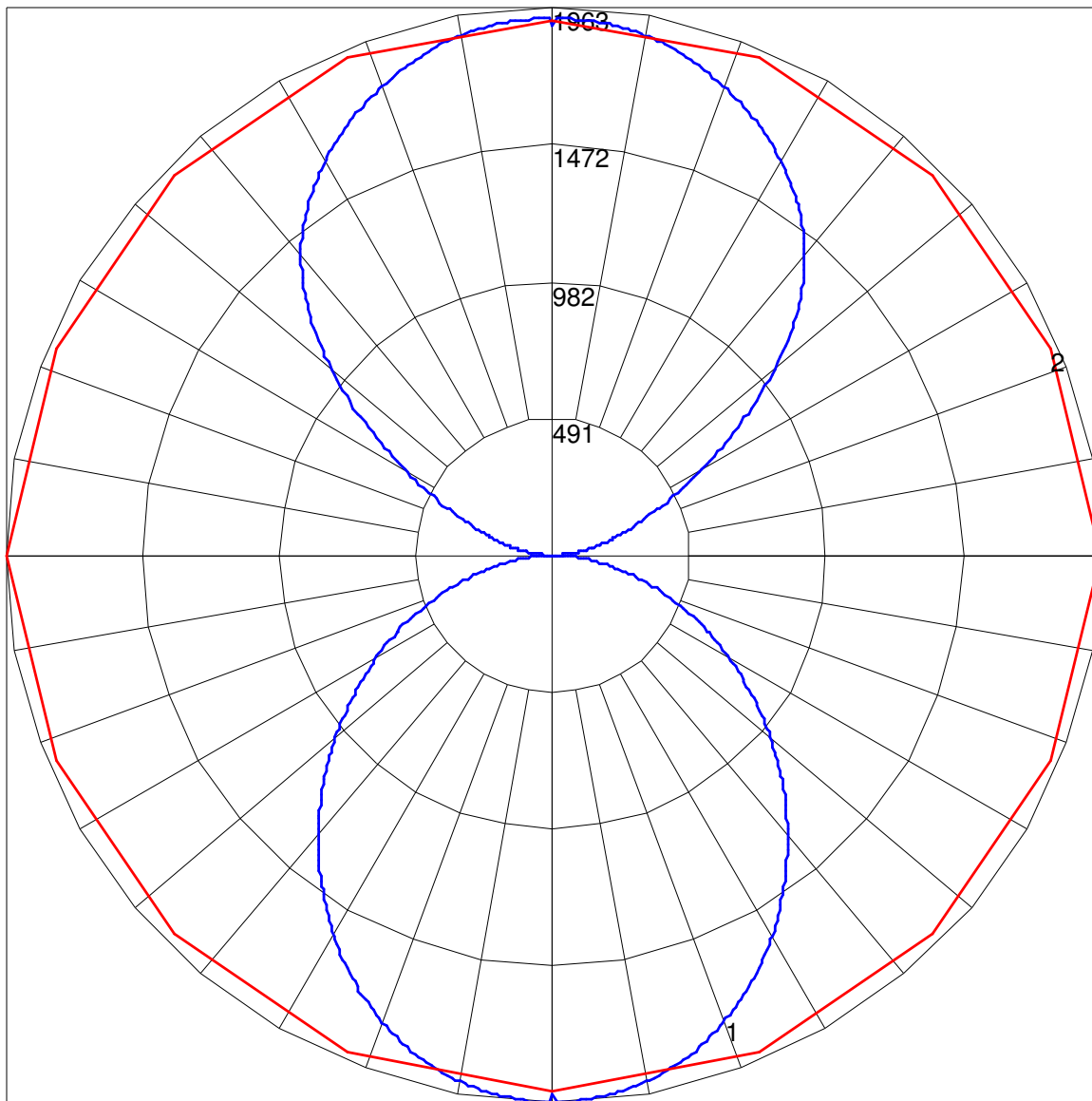
12H	4H	20.3	20.7	21.3	21.8	23.1	19.6	20.3	20.6	21.3
	6H	21.1	21.4	22.1	22.4	23.8	19.7	20.4	20.7	21.4
	8H	21.3	21.6	22.4	22.7	24.1	19.8	20.4	20.7	21.4

Maximum UGR = 24.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-950U-L15-950D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1963.307 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.)