

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L15-840D-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-L8-840U-L15-840D-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	9708
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	77.6
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	13169	12840	12693
55	12106	11812	11688
65	11165	10896	10778
75	9468	9463	9458
85	7395	7692	7915

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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	1910.840	1910.840	1910.840	1910.840	1910.840
0.5	1939.695	1912.443	1902.825	1906.832	1900.420
1.0	1939.695	1911.641	1902.825	1906.832	1900.420
1.5	1938.893	1910.840	1902.023	1906.832	1899.619
2.0	1938.092	1910.038	1901.222	1906.031	1899.619
2.5	1937.290	1909.237	1899.619	1905.229	1898.817
3.0	1935.687	1907.634	1898.817	1904.428	1897.214
3.5	1934.084	1906.031	1897.214	1902.825	1895.611
4.0	1932.481	1904.428	1895.611	1901.222	1894.008
4.5	1930.878	1902.023	1894.008	1899.619	1891.603
5.0	1929.275	1900.420	1891.603	1897.214	1889.199
5.5	1926.870	1898.015	1889.199	1894.809	1886.794
6.0	1924.466	1894.809	1886.794	1892.405	1883.588
6.5	1921.260	1892.405	1883.588	1889.199	1881.183
7.0	1918.855	1889.199	1881.183	1885.993	1877.977
7.5	1916.451	1885.993	1877.977	1882.786	1875.573
8.0	1912.443	1882.786	1873.970	1879.580	1872.367
8.5	1909.237	1878.779	1869.962	1875.573	1868.359
9.0	1905.229	1875.573	1866.756	1871.565	1864.351
9.5	1901.222	1871.565	1861.947	1866.756	1860.344
10.0	1897.214	1867.557	1857.939	1862.748	1855.535
10.5	1892.405	1862.748	1853.130	1857.939	1851.527
11.0	1888.397	1857.939	1848.321	1853.130	1845.916
11.5	1882.786	1853.130	1843.512	1848.321	1841.107
12.0	1877.977	1848.321	1838.702	1842.710	1835.496
12.5	1873.168	1842.710	1833.092	1837.099	1829.886
13.0	1867.557	1837.901	1827.481	1831.489	1824.275
13.5	1861.947	1831.489	1821.870	1825.077	1818.664
14.0	1856.336	1825.878	1815.458	1819.466	1813.054
14.5	1850.725	1820.267	1809.046	1813.054	1806.641
15.0	1845.115	1813.855	1802.634	1806.641	1800.229
15.5	1837.901	1808.244	1796.222	1799.428	1793.015
16.0	1829.886	1801.832	1789.008	1793.015	1786.603
16.5	1821.870	1794.619	1781.794	1785.802	1779.390
17.0	1814.657	1787.405	1774.580	1778.588	1772.176
17.5	1806.641	1779.390	1766.565	1770.573	1764.160
18.0	1798.626	1771.374	1758.550	1762.557	1756.145
18.5	1790.611	1763.359	1750.535	1753.741	1748.130
19.0	1782.596	1755.344	1743.321	1745.725	1738.512
19.5	1773.779	1747.328	1735.306	1736.107	1728.893
20.0	1765.764	1738.512	1728.092	1727.290	1719.275
20.5	1756.947	1730.496	1720.077	1717.672	1709.657
21.0	1748.130	1721.680	1711.260	1708.054	1699.237
21.5	1738.512	1712.863	1701.641	1698.435	1688.817
22.0	1729.695	1703.244	1691.222	1688.015	1679.199
22.5	1720.077	1693.626	1681.603	1677.596	1668.779
23.0	1710.458	1684.008	1671.985	1666.374	1658.359
23.5	1700.840	1674.389	1661.565	1655.954	1648.741
24.0	1690.420	1664.771	1651.947	1645.535	1638.321
24.5	1680.000	1654.351	1641.527	1635.115	1627.901
25.0	1670.382	1643.931	1631.107	1624.695	1617.481
25.5	1659.962	1633.512	1619.886	1614.275	1606.260
26.0	1648.741	1622.290	1609.466	1603.855	1595.840
26.5	1638.321	1611.870	1598.244	1593.435	1585.420

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27.0	1627.099	1600.649	1587.023	1583.015	1574.199
27.5	1615.878	1589.428	1576.603	1572.596	1563.779
28.0	1604.657	1577.405	1564.580	1561.374	1552.557
28.5	1592.634	1565.382	1553.359	1550.954	1541.336
29.0	1580.611	1554.160	1542.138	1539.733	1530.115
29.5	1569.389	1542.138	1530.916	1527.710	1519.695
30.0	1557.367	1530.115	1519.695	1516.489	1508.473
30.5	1545.344	1518.092	1507.672	1505.267	1497.252
31.0	1532.519	1506.870	1495.649	1493.244	1486.031
31.5	1520.496	1494.847	1483.626	1481.222	1474.008
32.0	1507.672	1482.023	1471.603	1468.397	1461.985
32.5	1494.847	1470.000	1459.580	1456.374	1449.160
33.0	1482.023	1457.977	1447.557	1444.351	1436.336
33.5	1470.000	1445.153	1434.733	1431.527	1424.313
34.0	1456.374	1432.328	1422.710	1418.702	1411.489
34.5	1443.550	1419.504	1409.084	1405.878	1397.863
35.0	1430.725	1407.481	1396.260	1393.054	1384.237
35.5	1417.099	1393.855	1383.435	1380.229	1370.611
36.0	1403.473	1381.031	1370.611	1366.603	1357.786
36.5	1390.649	1368.206	1357.786	1353.779	1344.962
37.0	1377.023	1354.580	1344.160	1340.153	1331.336
37.5	1363.397	1340.954	1331.336	1326.527	1318.512
38.0	1348.970	1327.328	1317.710	1312.901	1304.886
38.5	1335.344	1313.702	1304.084	1300.076	1291.260
39.0	1322.519	1300.076	1290.458	1286.451	1278.435
39.5	1308.092	1286.451	1277.634	1272.825	1264.008
40.0	1294.466	1272.023	1264.008	1259.199	1251.183
40.5	1280.038	1258.397	1250.382	1245.573	1237.557
41.0	1266.412	1243.970	1236.756	1231.145	1223.130
41.5	1251.985	1230.344	1222.328	1217.519	1208.702
42.0	1238.359	1215.916	1208.702	1203.893	1195.076
42.5	1224.733	1202.290	1195.076	1189.466	1181.451
43.0	1210.305	1188.664	1181.451	1175.840	1167.023
43.5	1196.680	1174.237	1167.023	1162.214	1153.397
44.0	1182.252	1159.809	1152.596	1147.786	1139.771
44.5	1167.825	1145.382	1138.168	1133.359	1125.344
45.0	1153.397	1131.756	1124.542	1118.931	1111.718
45.5	1139.771	1117.328	1110.115	1105.305	1098.092
46.0	1125.344	1102.901	1095.687	1090.878	1084.466
46.5	1110.916	1088.473	1082.061	1077.252	1070.840
47.0	1096.489	1074.046	1067.634	1062.825	1056.412
47.5	1081.260	1059.618	1053.206	1048.397	1042.786
48.0	1066.832	1045.191	1038.779	1034.771	1028.359
48.5	1052.405	1030.763	1025.153	1020.344	1013.931
49.0	1037.176	1016.336	1010.725	1005.916	1000.305
49.5	1022.748	1001.909	996.298	992.290	986.679
50.0	1007.519	987.481	981.870	977.863	972.252
50.5	992.290	973.054	967.443	963.435	958.626
51.0	977.061	958.626	953.015	949.008	944.199
51.5	962.634	944.199	938.588	935.382	929.771
52.0	948.206	929.771	924.160	920.954	916.145
52.5	932.977	915.344	909.733	907.328	901.718
53.0	918.550	900.916	895.305	892.901	887.290
53.5	903.321	886.489	880.878	878.473	872.863
54.0	888.893	872.061	867.252	864.847	858.435
54.5	874.466	858.435	852.825	850.420	844.008

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55.0	860.038	844.809	839.199	836.794	830.382
55.5	846.412	830.382	824.771	822.367	816.756
56.0	831.183	815.954	810.344	808.741	802.328
56.5	816.756	802.328	796.317	794.554	788.221
57.0	803.130	787.901	782.130	780.206	774.195
57.5	789.023	773.954	768.023	766.260	760.008
58.0	774.916	760.168	753.836	752.233	745.981
58.5	760.729	746.302	739.889	738.447	732.515
59.0	746.783	732.355	725.863	724.500	718.809
59.5	733.237	718.248	711.595	710.634	705.263
60.0	719.370	704.221	697.489	696.687	691.477
60.5	705.664	690.515	683.863	682.660	677.531
61.0	692.199	676.809	670.317	668.954	663.905
61.5	677.771	663.264	656.851	655.328	650.439
62.0	663.584	649.317	642.905	641.782	636.653
62.5	649.076	636.412	629.760	628.878	623.588
63.0	635.130	625.031	619.660	619.260	614.931
63.5	621.023	612.607	608.359	607.477	602.989
64.0	612.527	600.504	596.657	594.893	589.763
64.5	599.302	587.599	583.431	581.828	577.019
65.0	584.473	573.813	570.367	568.844	564.195
65.5	569.325	559.867	556.741	556.019	551.290
66.0	554.737	546.241	543.435	543.115	538.065
66.5	540.309	532.294	529.889	529.889	525.401
67.0	526.042	518.427	516.504	516.744	512.657
67.5	512.015	504.802	503.038	503.519	499.512
68.0	497.828	491.176	489.573	490.214	486.046
68.5	483.561	477.309	476.027	476.908	472.821
69.0	468.813	463.363	462.401	462.882	459.114
69.5	454.466	449.657	448.534	449.095	445.649
70.0	440.279	435.790	434.989	435.229	432.183
70.5	426.332	421.844	421.283	421.523	418.637
71.0	412.065	407.977	407.817	408.138	405.012
71.5	397.798	394.111	394.431	394.672	391.947
72.0	383.931	380.164	380.805	381.126	378.802
72.5	370.065	366.458	367.500	367.821	365.897
73.0	356.359	353.073	354.515	354.916	353.233
73.5	343.053	339.847	341.531	342.252	340.408
74.0	329.908	326.622	328.706	329.267	328.065
74.5	316.763	313.637	315.962	316.523	315.641
75.0	303.538	300.733	303.378	303.939	303.218
75.5	290.473	287.828	290.874	291.595	290.794
76.0	277.248	275.405	278.531	279.332	278.691
76.5	264.744	263.141	266.267	267.149	266.588
77.0	252.561	250.798	254.244	255.046	254.164
77.5	239.977	238.775	242.221	242.863	241.981
78.0	227.714	226.752	230.199	231.160	230.279
78.5	215.531	215.050	218.336	219.458	218.737
79.0	203.828	203.347	206.714	208.076	207.515
79.5	192.126	191.885	195.252	196.695	196.214
80.0	180.584	180.664	183.790	185.794	185.153
80.5	168.962	169.683	172.889	174.813	174.332
81.0	157.821	158.943	162.069	164.073	163.752
81.5	147.080	148.282	151.489	153.492	153.252
82.0	137.061	137.863	141.149	143.233	142.992
82.5	127.042	127.763	130.969	133.053	132.893

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83.0	117.023	118.145	120.950	123.115	123.275
83.5	107.164	108.527	111.252	113.336	113.817
84.0	97.947	99.069	101.634	103.637	104.359
84.5	88.569	89.771	92.176	94.179	94.901
85.0	79.832	80.794	83.038	84.801	85.443
85.5	71.336	71.817	73.740	75.584	76.225
86.0	63.000	63.160	64.844	66.527	67.328
86.5	54.744	54.744	56.267	57.790	58.511
87.0	46.408	46.408	47.531	49.454	50.015
87.5	38.153	38.233	39.275	41.198	41.920
88.0	30.298	30.218	31.260	33.344	34.145
88.5	22.763	22.282	23.645	25.488	26.611
89.0	14.748	14.508	16.351	18.115	19.317
89.5	6.813	8.095	9.779	11.141	11.542
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.947	2.607	2.407	2.340	2.540
91.0	10.897	5.749	4.680	4.613	4.546
91.5	17.516	11.700	6.953	6.886	6.819
92.0	24.201	19.455	10.028	8.959	8.959
92.5	31.154	27.477	15.510	11.232	11.031
93.0	38.375	35.166	21.928	14.909	13.438
93.5	45.662	42.520	28.814	20.123	17.516
94.0	52.815	49.740	36.436	26.341	23.065
94.5	60.169	56.960	44.391	32.759	29.082
95.0	67.389	64.381	52.213	39.310	35.032
95.5	74.610	71.334	59.835	46.063	41.316
96.0	81.496	78.420	67.323	53.083	47.734
96.5	88.449	85.507	74.810	60.236	54.353
97.0	95.201	92.460	82.231	67.389	61.373
97.5	102.154	99.480	89.719	74.677	68.392
98.0	109.040	106.366	97.006	81.897	75.479
98.5	115.926	113.319	104.026	89.251	82.565
99.0	122.946	120.472	111.179	96.271	89.719
99.5	130.032	127.559	118.399	103.290	96.739
100.0	136.985	134.712	125.620	110.511	103.625
100.5	144.205	141.865	132.840	117.998	110.577
101.0	151.626	149.019	140.194	125.553	118.132
101.5	159.181	156.306	147.682	133.107	125.954
102.0	166.535	163.861	155.170	140.662	133.709
102.5	174.223	171.348	162.925	148.217	141.397
103.0	182.112	179.103	170.613	155.704	149.219
103.5	190.001	186.992	178.769	163.727	156.975
104.0	198.090	194.948	187.059	172.017	165.064
104.5	206.447	203.238	195.349	180.507	173.153
105.0	215.004	211.728	203.572	188.864	181.377
105.5	223.762	220.353	212.063	197.288	189.533
106.0	232.654	229.044	220.687	205.845	197.689
106.5	241.612	238.002	229.712	214.470	205.912
107.0	251.173	247.362	239.339	223.629	214.871
107.5	261.067	256.989	249.100	233.323	224.565
108.0	270.895	266.884	259.062	243.819	234.526
108.5	281.257	276.979	269.023	254.315	244.822
109.0	291.887	287.274	279.252	264.945	255.251
109.5	302.784	297.971	290.015	275.508	265.814
110.0	314.417	308.935	301.046	286.338	276.845
110.5	326.317	320.167	312.345	297.971	288.277

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111.0	338.351	331.933	324.044	310.072	299.776
111.5	350.652	344.034	335.944	322.373	311.609
112.0	363.422	356.469	347.778	334.674	322.908
112.5	376.258	369.238	359.745	346.908	334.875
113.0	389.695	382.408	372.380	359.544	347.376
113.5	403.534	396.180	385.751	373.182	360.814
114.0	417.574	410.220	399.924	387.690	375.723
114.5	432.081	424.727	414.365	402.799	391.567
115.0	446.789	439.636	429.340	418.042	407.612
115.5	462.166	454.678	444.717	433.218	423.457
116.0	477.676	470.322	460.628	449.196	439.569
116.5	494.055	486.367	477.074	465.575	456.751
117.0	511.103	502.747	493.654	483.225	474.467
117.5	523.672	515.516	508.830	499.471	492.451
118.0	539.717	530.424	524.407	516.251	508.429
118.5	558.370	548.208	540.319	531.828	522.803
119.0	576.621	565.724	558.370	549.478	538.781
119.5	595.073	584.376	577.490	567.395	556.698
120.0	614.126	603.697	596.677	586.983	575.618
120.5	633.046	623.285	616.466	607.775	595.808
121.0	652.902	643.275	636.389	628.500	617.268
121.5	672.557	663.064	656.245	649.492	638.261
122.0	693.282	683.254	677.237	670.552	659.320
122.5	713.338	703.310	697.962	691.276	679.243
123.0	734.063	724.704	719.355	714.007	701.305
123.5	755.457	746.097	742.086	736.738	724.035
124.0	776.850	768.159	764.148	759.468	747.434
124.5	798.244	789.553	786.210	781.530	770.165
125.0	819.637	810.946	807.603	803.592	792.227
125.5	841.699	833.008	829.665	825.654	813.620
126.0	863.093	854.402	852.396	847.716	835.014
126.5	884.486	875.795	875.127	871.115	857.744
127.0	906.548	897.857	897.857	894.514	881.812
127.5	928.610	919.251	919.251	917.245	905.880
128.0	950.004	940.644	941.313	939.976	928.610
128.5	971.397	961.369	962.706	962.706	950.672
129.0	992.791	982.094	984.100	984.768	973.403
129.5	1014.184	1003.487	1006.162	1007.499	996.802
130.0	1035.578	1024.881	1028.224	1030.229	1021.538
130.5	1056.971	1045.606	1050.954	1052.291	1044.937
131.0	1078.365	1066.331	1072.348	1073.685	1066.331
131.5	1098.421	1086.387	1093.741	1093.741	1087.056
132.0	1119.146	1106.443	1114.466	1115.135	1107.112
132.5	1139.202	1127.168	1135.191	1135.859	1127.168
133.0	1159.259	1147.893	1155.247	1156.584	1146.556
133.5	1179.315	1167.950	1175.972	1177.309	1167.281
134.0	1199.371	1187.338	1195.360	1197.366	1187.338
134.5	1217.422	1206.725	1214.079	1215.416	1206.725
135.0	1235.473	1225.445	1232.130	1233.467	1224.108
135.5	1252.855	1244.832	1250.181	1250.849	1241.490
136.0	1270.237	1262.883	1266.894	1268.900	1259.540
136.5	1288.288	1280.265	1283.608	1286.951	1278.260
137.0	1305.002	1297.648	1300.990	1303.664	1295.642
137.5	1321.715	1313.693	1317.035	1319.041	1311.018
138.0	1337.760	1329.738	1332.412	1333.749	1325.727
138.5	1353.805	1345.114	1347.789	1348.457	1339.766

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L15-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1369.182	1360.491	1363.165	1363.165	1353.805
139.5	1384.559	1375.867	1377.873	1377.205	1367.176
140.0	1399.267	1389.907	1392.581	1391.913	1381.884
140.5	1413.306	1403.278	1405.952	1405.283	1394.587
141.0	1427.345	1417.317	1419.323	1417.986	1407.289
141.5	1440.048	1430.020	1432.694	1430.688	1418.654
142.0	1453.419	1443.391	1445.396	1442.722	1430.688
142.5	1466.121	1456.093	1458.099	1455.424	1442.053
143.0	1478.824	1468.127	1470.132	1467.458	1454.087
143.5	1490.857	1480.829	1482.166	1479.492	1465.453
144.0	1502.223	1492.863	1493.532	1490.189	1476.149
144.5	1513.588	1504.228	1504.897	1500.886	1486.846
145.0	1524.285	1515.594	1515.594	1510.914	1496.874
145.5	1535.650	1526.959	1526.290	1522.279	1507.571
146.0	1546.347	1537.656	1536.987	1532.307	1518.268
146.5	1557.043	1548.352	1547.015	1543.004	1528.964
147.0	1567.072	1559.049	1556.375	1553.701	1539.661
147.5	1577.100	1569.077	1566.403	1563.729	1549.689
148.0	1587.128	1579.105	1575.094	1573.088	1560.386
148.5	1597.156	1589.134	1583.785	1582.448	1571.083
149.0	1606.516	1599.162	1592.476	1591.808	1581.780
149.5	1615.875	1608.521	1600.499	1601.167	1591.808
150.0	1625.235	1617.881	1609.190	1609.859	1601.167
150.5	1634.595	1627.241	1617.213	1617.881	1610.527
151.0	1643.286	1635.932	1625.235	1625.904	1619.218
151.5	1652.645	1644.623	1633.926	1633.926	1627.241
152.0	1661.337	1653.314	1641.949	1641.280	1635.263
152.5	1670.028	1661.337	1649.971	1649.303	1642.617
153.0	1678.719	1669.359	1657.994	1657.325	1649.303
153.5	1686.741	1677.382	1666.016	1665.348	1655.320
154.0	1694.764	1685.404	1674.707	1673.370	1662.005
154.5	1703.455	1692.758	1682.730	1680.724	1668.691
155.0	1711.477	1700.112	1690.753	1688.747	1676.045
155.5	1718.831	1706.798	1698.775	1696.769	1683.399
156.0	1726.185	1714.152	1707.466	1704.123	1690.753
156.5	1733.539	1721.506	1715.489	1712.146	1698.107
157.0	1740.893	1728.860	1723.511	1720.169	1705.461
157.5	1747.579	1735.545	1730.865	1727.523	1712.815
158.0	1754.264	1742.231	1738.219	1734.877	1720.169
158.5	1761.618	1749.585	1745.573	1742.231	1728.191
159.0	1767.635	1756.270	1752.259	1749.585	1735.545
159.5	1774.321	1762.956	1758.944	1756.939	1742.899
160.0	1780.338	1768.972	1765.630	1763.624	1750.253
160.5	1786.355	1774.989	1771.647	1770.310	1757.607
161.0	1792.372	1781.006	1777.664	1776.995	1764.961
161.5	1798.388	1787.692	1783.012	1783.680	1772.315
162.0	1805.074	1793.709	1788.360	1790.366	1779.001
162.5	1811.091	1799.726	1793.709	1796.383	1785.018
163.0	1817.108	1805.742	1799.057	1802.400	1791.034
163.5	1823.125	1811.091	1804.405	1808.417	1796.383
164.0	1829.142	1816.439	1809.085	1813.765	1801.731
164.5	1833.821	1821.788	1813.765	1819.113	1807.080
165.0	1839.170	1827.136	1818.445	1824.462	1811.759
165.5	1844.518	1831.816	1823.125	1829.142	1816.439
166.0	1849.866	1836.496	1827.804	1833.821	1820.450
166.5	1855.215	1841.175	1832.484	1837.833	1825.130

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L15-840D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1859.895	1845.187	1836.496	1841.844	1829.142
167.5	1864.574	1849.198	1841.175	1845.855	1833.821
168.0	1869.254	1853.209	1845.187	1849.866	1837.833
168.5	1873.934	1857.220	1849.198	1853.878	1842.512
169.0	1877.945	1860.563	1853.209	1857.220	1846.524
169.5	1881.288	1863.906	1856.552	1860.563	1850.535
170.0	1884.631	1867.249	1859.895	1863.906	1855.215
170.5	1887.974	1870.591	1862.569	1867.249	1858.558
171.0	1891.316	1873.266	1865.243	1870.591	1861.900
171.5	1893.991	1875.940	1867.917	1873.934	1865.243
172.0	1896.665	1878.614	1869.923	1876.608	1867.917
172.5	1899.339	1881.288	1871.928	1878.614	1869.923
173.0	1902.013	1883.962	1873.934	1881.288	1871.260
173.5	1904.019	1885.968	1875.940	1882.625	1872.597
174.0	1906.024	1887.974	1877.945	1883.962	1873.266
174.5	1907.361	1889.311	1879.282	1885.299	1873.934
175.0	1908.699	1891.316	1880.620	1885.968	1873.934
175.5	1910.036	1892.653	1882.625	1886.637	1874.603
176.0	1911.373	1893.991	1883.962	1886.637	1874.603
176.5	1912.041	1895.328	1884.631	1887.305	1874.603
177.0	1912.710	1896.665	1885.968	1887.305	1873.934
177.5	1914.047	1898.002	1887.305	1887.305	1873.934
178.0	1914.715	1898.002	1887.974	1887.305	1874.603
178.5	1914.715	1898.670	1888.642	1887.305	1874.603
179.0	1915.384	1899.339	1888.642	1887.305	1874.603
179.5	1916.053	1899.339	1889.311	1887.305	1874.603
180.0	1892.653	1892.653	1892.653	1892.653	1892.653

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L15-840D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	690.59	N.A.	7.10
0-30	1443.78	N.A.	14.90
0-40	2319.46	N.A.	23.90
0-60	3941.29	N.A.	40.60
0-80	4826.55	N.A.	49.70
0-90	4920.09	N.A.	50.70
10-90	4739.83	N.A.	48.80
20-40	1628.87	N.A.	16.80
20-50	2498.16	N.A.	25.70
40-70	2185.46	N.A.	22.50
60-80	885.26	N.A.	9.10
70-80	321.62	N.A.	3.30
80-90	93.54	N.A.	1.00
90-110	273.90	N.A.	2.80
90-120	703.13	N.A.	7.20
90-130	1424.42	N.A.	14.70
90-150	3313.09	N.A.	34.10
90-180	4788.28	N.A.	49.30
110-180	4514.38	N.A.	46.50
0-180	9708.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.26
10-20	510.33
20-30	753.20
30-40	875.68
40-50	869.28
50-60	752.54
60-70	563.64
70-80	321.62
80-90	93.54
90-100	59.08
100-110	214.82
110-120	429.23
120-130	721.29
130-140	943.15
140-150	945.51
150-160	781.04
160-170	514.67
170-180	179.48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-840U-L15-840D-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-L8-840U-L15-840D-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	19.5	20.3	21.6	16.7	17.6	17.7	18.6
	4H	19.2	19.9	20.2	20.9	22.2	18.5	19.3	19.4	20.2
	6H	19.6	20.3	20.6	21.3	22.6	19.1	19.9	20.1	20.8
	8H	19.8	20.4	20.7	21.4	22.7	19.6	20.3	20.6	21.2
	12H	19.8	20.5	20.8	21.4	22.8	19.7	20.4	20.7	21.4

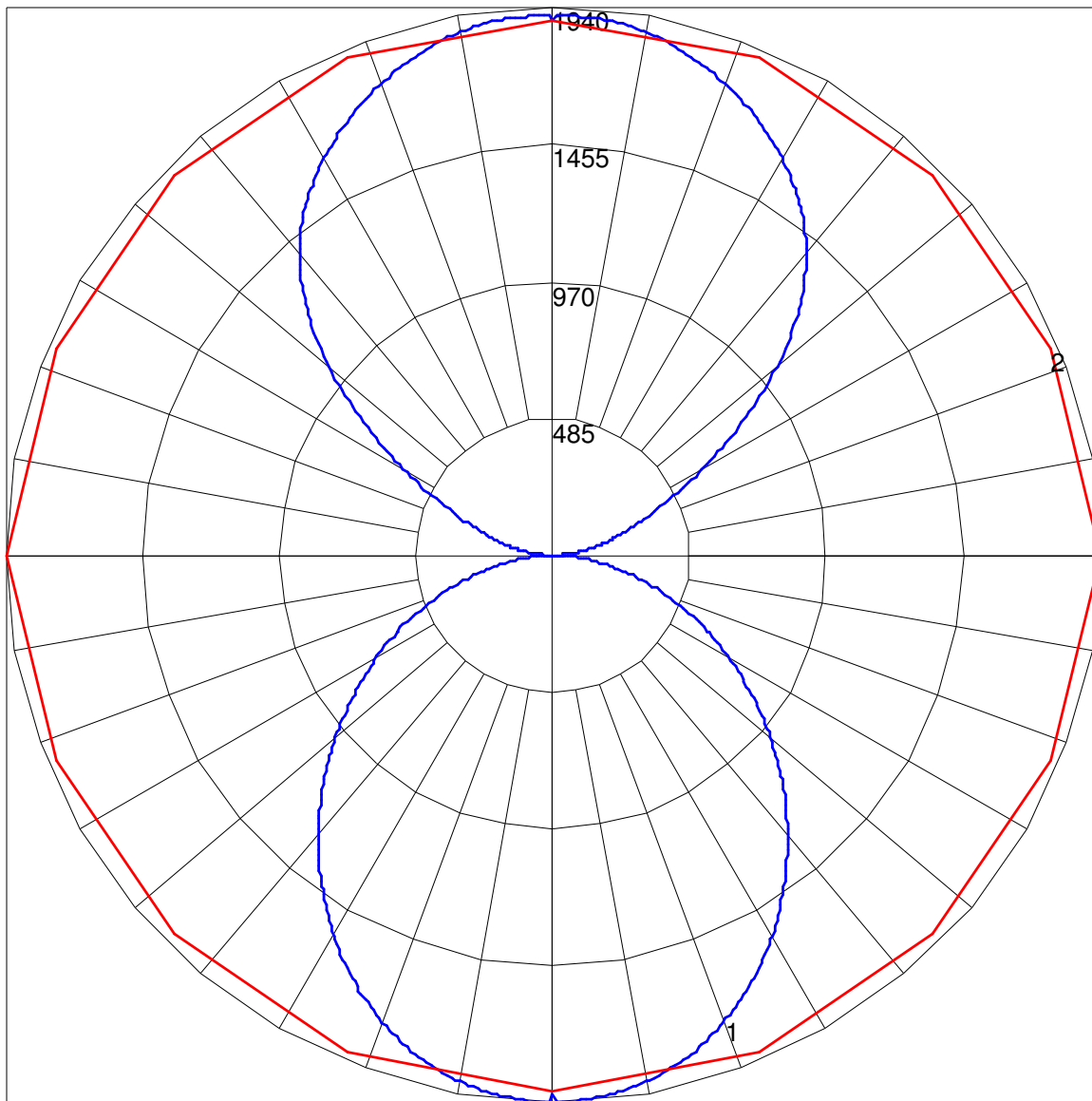
4H	2H	17.4	18.1	18.3	19.1	20.4	19.8	20.4	20.8	21.4	22.8
	3H	19.3	19.9	20.3	20.9	22.2	16.7	17.6	17.7	18.6	19.8
	4H	20.1	20.6	21.0	21.6	22.9	18.5	19.3	19.4	20.2	21.5
	6H	20.6	21.1	21.6	22.1	23.4	19.1	19.9	20.1	20.8	22.1
	8H	20.8	21.2	21.8	22.3	23.6	19.6	20.3	20.6	21.2	22.5
	12H	20.9	21.3	21.9	22.3	23.7	19.7	20.4	20.7	21.4	22.7

8H	4H	20.3	20.8	21.3	21.8	23.1	20.6	21.1	21.6	22.1	23.4
	6H	21.0	21.4	22.0	22.4	23.8	20.8	21.2	21.8	22.3	23.6
	8H	21.3	21.6	22.3	22.6	24.0	20.9	21.3	22.0	22.4	23.7
	12H	21.4	21.7	22.5	22.8	24.2	20.3	20.7	21.3	21.7	23.1

12H	4H	20.3	20.7	21.3	21.7	23.1	21.0	21.4	22.0	22.4	23.7
	6H	21.0	21.4	22.1	22.4	23.8	21.3	21.6	22.3	22.6	24.0
	8H	21.3	21.6	22.4	22.7	24.1	21.5	21.8	22.5	22.8	24.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1939.695 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.)