

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-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-L8-830U-L15-830D-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	9331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	12658	12341	12200
55	11635	11354	11234
65	10732	10473	10359
75	9101	9096	9091
85	7108	7393	7607

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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	1836.633	1836.633	1836.633	1836.633	1836.633
0.5	1864.367	1838.174	1828.929	1832.781	1826.618
1.0	1864.367	1837.403	1828.929	1832.781	1826.618
1.5	1863.597	1836.633	1828.158	1832.781	1825.847
2.0	1862.826	1835.862	1827.388	1832.010	1825.847
2.5	1862.056	1835.092	1825.847	1831.240	1825.077
3.0	1860.515	1833.551	1825.077	1830.470	1823.536
3.5	1858.974	1832.010	1823.536	1828.929	1821.995
4.0	1857.434	1830.470	1821.995	1827.388	1820.454
4.5	1855.893	1828.158	1820.454	1825.847	1818.143
5.0	1854.352	1826.618	1818.143	1823.536	1815.832
5.5	1852.041	1824.306	1815.832	1821.225	1813.521
6.0	1849.730	1821.225	1813.521	1818.914	1810.439
6.5	1846.648	1818.914	1810.439	1815.832	1808.128
7.0	1844.337	1815.832	1808.128	1812.750	1805.046
7.5	1842.026	1812.750	1805.046	1809.669	1802.735
8.0	1838.174	1809.669	1801.194	1806.587	1799.654
8.5	1835.092	1805.817	1797.342	1802.735	1795.802
9.0	1831.240	1802.735	1794.261	1798.883	1791.950
9.5	1827.388	1798.883	1789.638	1794.261	1788.098
10.0	1823.536	1795.031	1785.786	1790.409	1783.475
10.5	1818.914	1790.409	1781.164	1785.786	1779.623
11.0	1815.062	1785.786	1776.542	1781.164	1774.230
11.5	1809.669	1781.164	1771.919	1776.542	1769.608
12.0	1805.046	1776.542	1767.297	1771.149	1764.215
12.5	1800.424	1771.149	1761.904	1765.756	1758.822
13.0	1795.031	1766.526	1756.511	1760.363	1753.430
13.5	1789.638	1760.363	1751.118	1754.200	1748.037
14.0	1784.246	1754.970	1744.955	1748.807	1742.644
14.5	1778.853	1749.578	1738.792	1742.644	1736.481
15.0	1773.460	1743.414	1732.629	1736.481	1730.318
15.5	1766.526	1738.022	1726.466	1729.547	1723.384
16.0	1758.822	1731.858	1719.532	1723.384	1717.221
16.5	1751.118	1724.925	1712.598	1716.450	1710.287
17.0	1744.185	1717.991	1705.665	1709.517	1703.354
17.5	1736.481	1710.287	1697.961	1701.813	1695.650
18.0	1728.777	1702.583	1690.257	1694.109	1687.946
18.5	1721.073	1694.879	1682.553	1685.634	1680.242
19.0	1713.369	1687.175	1675.619	1677.930	1670.997
19.5	1704.894	1679.471	1667.915	1668.686	1661.752
20.0	1697.190	1670.997	1660.982	1660.211	1652.507
20.5	1688.716	1663.293	1653.278	1650.966	1643.262
21.0	1680.242	1654.818	1644.803	1641.722	1633.247
21.5	1670.997	1646.344	1635.558	1632.477	1623.232
22.0	1662.522	1637.099	1625.543	1622.462	1613.987
22.5	1653.278	1627.854	1616.298	1612.446	1603.972
23.0	1644.033	1618.610	1607.054	1601.661	1593.957
23.5	1634.788	1609.365	1597.038	1591.646	1584.712
24.0	1624.773	1600.120	1587.794	1581.630	1574.697
24.5	1614.758	1590.105	1577.778	1571.615	1564.682
25.0	1605.513	1580.090	1567.763	1561.600	1554.666
25.5	1595.498	1570.074	1556.978	1551.585	1543.881
26.0	1584.712	1559.289	1546.962	1541.570	1533.866
26.5	1574.697	1549.274	1536.177	1531.555	1523.851

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1563.911	1538.488	1525.391	1521.539	1513.065
27.5	1553.126	1527.703	1515.376	1511.524	1503.050
28.0	1542.340	1516.147	1503.820	1500.739	1492.264
28.5	1530.784	1504.591	1493.035	1490.723	1481.479
29.0	1519.228	1493.805	1482.249	1479.938	1470.693
29.5	1508.443	1482.249	1471.463	1468.382	1460.678
30.0	1496.887	1470.693	1460.678	1457.596	1449.892
30.5	1485.331	1459.137	1449.122	1446.811	1439.107
31.0	1473.004	1448.351	1437.566	1435.255	1428.321
31.5	1461.448	1436.795	1426.010	1423.699	1416.765
32.0	1449.122	1424.469	1414.454	1411.372	1405.209
32.5	1436.795	1412.913	1402.898	1399.816	1392.883
33.0	1424.469	1401.357	1391.342	1388.260	1380.556
33.5	1412.913	1389.031	1379.015	1375.934	1369.000
34.0	1399.816	1376.704	1367.459	1363.607	1356.674
34.5	1387.490	1364.378	1354.363	1351.281	1343.577
35.0	1375.163	1352.822	1342.036	1338.955	1330.480
35.5	1362.067	1339.725	1329.710	1326.628	1317.383
36.0	1348.970	1327.399	1317.383	1313.531	1305.057
36.5	1336.643	1315.072	1305.057	1301.205	1292.731
37.0	1323.547	1301.975	1291.960	1288.108	1279.634
37.5	1310.450	1288.879	1279.634	1275.011	1267.307
38.0	1296.583	1275.782	1266.537	1261.915	1254.211
38.5	1283.486	1262.685	1253.440	1249.588	1241.114
39.0	1271.159	1249.588	1240.343	1236.491	1228.787
39.5	1257.292	1236.491	1228.017	1223.395	1214.920
40.0	1244.195	1222.624	1214.920	1210.298	1202.594
40.5	1230.328	1209.527	1201.823	1197.201	1189.497
41.0	1217.231	1195.660	1188.727	1183.334	1175.630
41.5	1203.364	1182.563	1174.859	1170.237	1161.763
42.0	1190.267	1168.696	1161.763	1157.140	1148.666
42.5	1177.171	1155.599	1148.666	1143.273	1135.569
43.0	1163.303	1142.503	1135.569	1130.176	1121.702
43.5	1150.207	1128.635	1121.702	1117.079	1108.605
44.0	1136.339	1114.768	1107.835	1103.212	1095.508
44.5	1122.472	1100.901	1093.968	1089.345	1081.641
45.0	1108.605	1087.804	1080.871	1075.478	1068.544
45.5	1095.508	1073.937	1067.004	1062.381	1055.448
46.0	1081.641	1060.070	1053.136	1048.514	1042.351
46.5	1067.774	1046.203	1040.040	1035.417	1029.254
47.0	1053.907	1032.336	1026.172	1021.550	1015.387
47.5	1039.269	1018.468	1012.305	1007.683	1002.290
48.0	1025.402	1004.601	998.438	994.586	988.423
48.5	1011.535	990.734	985.341	980.719	974.556
49.0	996.897	976.867	971.474	966.852	961.459
49.5	983.030	963.000	957.607	953.755	948.362
50.0	968.392	949.132	943.740	939.888	934.495
50.5	953.755	935.265	929.872	926.020	921.398
51.0	939.117	921.398	916.005	912.153	907.531
51.5	925.250	907.531	902.138	899.056	893.664
52.0	911.383	893.664	888.271	885.189	880.567
52.5	896.745	879.796	874.404	872.092	866.700
53.0	882.878	865.929	860.536	858.225	852.832
53.5	868.240	852.062	846.669	844.358	838.965
54.0	854.373	838.195	833.572	831.261	825.098
54.5	840.506	825.098	819.705	817.394	811.231

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55.0	826.639	812.001	806.608	804.297	798.134
55.5	813.542	798.134	792.741	790.430	785.037
56.0	798.904	784.267	778.874	777.333	771.170
56.5	785.037	771.170	765.392	763.697	757.611
57.0	771.940	757.303	751.756	749.907	744.129
57.5	758.381	743.898	738.197	736.502	730.493
58.0	744.822	730.647	724.561	723.020	717.011
58.5	731.186	717.319	711.156	709.769	704.068
59.0	717.781	703.914	697.674	696.364	690.894
59.5	704.762	690.355	683.961	683.036	677.875
60.0	691.434	676.873	670.402	669.631	664.624
60.5	678.260	663.699	657.305	656.149	651.219
61.0	665.317	650.525	644.285	642.976	638.122
61.5	651.450	637.506	631.343	629.879	625.179
62.0	637.814	624.101	617.938	616.859	611.928
62.5	623.870	611.697	605.303	604.456	599.371
63.0	610.465	600.758	595.596	595.211	591.051
63.5	596.906	588.816	584.733	583.886	579.572
64.0	588.739	577.183	573.485	571.791	566.860
64.5	576.028	564.780	560.774	559.233	554.611
65.0	561.775	551.529	548.216	546.753	542.284
65.5	547.215	538.124	535.120	534.426	529.881
66.0	533.194	525.027	522.331	522.023	517.169
66.5	519.326	511.622	509.311	509.311	504.997
67.0	505.613	498.294	496.446	496.677	492.748
67.5	492.131	485.198	483.503	483.965	480.113
68.0	478.495	472.101	470.560	471.176	467.170
68.5	464.782	458.773	457.540	458.388	454.459
69.0	450.607	445.368	444.444	444.906	441.285
69.5	436.817	432.194	431.116	431.655	428.342
70.0	423.181	418.866	418.096	418.327	415.400
70.5	409.776	405.461	404.922	405.153	402.380
71.0	396.062	392.133	391.979	392.288	389.283
71.5	382.349	378.805	379.114	379.345	376.725
72.0	369.021	365.401	366.017	366.325	364.091
72.5	355.694	352.227	353.228	353.536	351.688
73.0	342.520	339.361	340.748	341.133	339.515
73.5	329.731	326.649	328.267	328.961	327.189
74.0	317.097	313.938	315.941	316.480	315.325
74.5	304.462	301.457	303.692	304.231	303.383
75.0	291.750	289.054	291.596	292.136	291.442
75.5	279.193	276.650	279.578	280.271	279.501
76.0	266.481	264.709	267.714	268.484	267.868
76.5	254.463	252.922	255.927	256.774	256.235
77.0	242.753	241.058	244.371	245.141	244.294
77.5	230.658	229.502	232.815	233.431	232.584
78.0	218.870	217.946	221.259	222.183	221.336
78.5	207.161	206.698	209.857	210.935	210.242
79.0	195.913	195.450	198.686	199.996	199.457
79.5	184.665	184.434	187.669	189.056	188.594
80.0	173.571	173.648	176.653	178.579	177.962
80.5	162.400	163.094	166.175	168.024	167.562
81.0	151.692	152.770	155.775	157.701	157.393
81.5	141.368	142.524	145.606	147.532	147.300
82.0	131.738	132.509	135.667	137.670	137.439
82.5	122.108	122.802	125.883	127.886	127.732

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83.0	112.478	113.557	116.253	118.333	118.487
83.5	103.002	104.312	106.931	108.934	109.397
84.0	94.143	95.221	97.687	99.613	100.306
84.5	85.129	86.285	88.596	90.522	91.215
85.0	76.732	77.656	79.813	81.508	82.125
85.5	68.566	69.028	70.877	72.649	73.265
86.0	60.553	60.707	62.325	63.943	64.714
86.5	52.618	52.618	54.082	55.546	56.239
87.0	44.606	44.606	45.685	47.534	48.073
87.5	36.671	36.748	37.750	39.599	40.292
88.0	29.121	29.044	30.046	32.049	32.819
88.5	21.879	21.417	22.727	24.499	25.577
89.0	14.175	13.944	15.716	17.411	18.567
89.5	6.548	7.781	9.399	10.709	11.094
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.755	2.506	2.313	2.249	2.442
91.0	10.474	5.526	4.498	4.434	4.370
91.5	16.836	11.245	6.683	6.619	6.554
92.0	23.262	18.699	9.639	8.611	8.611
92.5	29.944	26.410	14.908	10.795	10.603
93.0	36.884	33.800	21.077	14.330	12.916
93.5	43.888	40.868	27.695	19.342	16.836
94.0	50.764	47.808	35.021	25.318	22.169
94.5	57.832	54.748	42.668	31.487	27.952
95.0	64.772	61.881	50.186	37.784	33.671
95.5	71.712	68.564	57.511	44.274	39.712
96.0	78.331	75.375	64.708	51.021	45.880
96.5	85.014	82.186	71.905	57.897	52.242
97.0	91.504	88.869	79.038	64.772	58.989
97.5	98.187	95.616	86.235	71.777	65.736
98.0	104.805	102.235	93.239	78.716	72.548
98.5	111.424	108.918	99.986	85.785	79.359
99.0	118.171	115.793	106.862	92.532	86.235
99.5	124.982	122.605	113.801	99.279	92.982
100.0	131.665	129.480	120.741	106.219	99.600
100.5	138.605	136.356	127.681	113.416	106.283
101.0	145.738	143.232	134.750	120.677	113.544
101.5	152.999	150.236	141.947	127.938	121.063
102.0	160.067	157.497	149.144	135.199	128.517
102.5	167.457	164.694	156.597	142.461	135.906
103.0	175.040	172.148	163.987	149.658	143.425
103.5	182.622	179.730	171.827	157.369	150.878
104.0	190.397	187.377	179.795	165.337	158.654
104.5	198.430	195.345	187.763	173.497	166.429
105.0	206.655	203.506	195.667	181.530	174.333
105.5	215.073	211.795	203.827	189.626	182.172
106.0	223.619	220.149	212.117	197.851	190.012
106.5	232.230	228.760	220.792	206.141	197.916
107.0	241.418	237.756	230.045	214.944	206.526
107.5	250.929	247.009	239.426	224.261	215.844
108.0	260.375	256.519	249.001	234.350	225.418
108.5	270.335	266.222	258.575	244.439	235.314
109.0	280.552	276.118	268.407	254.656	245.338
109.5	291.026	286.399	278.753	264.808	255.491
110.0	302.207	296.938	289.355	275.218	266.094
110.5	313.645	307.733	300.215	286.399	277.082

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111.0	325.211	319.042	311.460	298.030	288.134
111.5	337.035	330.673	322.898	309.854	299.508
112.0	349.308	342.625	334.272	321.677	310.368
112.5	361.646	354.899	345.774	333.436	321.870
113.0	374.562	367.557	357.919	345.581	333.886
113.5	387.863	380.795	370.770	358.690	346.802
114.0	401.357	394.289	384.393	372.634	361.132
114.5	415.301	408.233	398.273	387.156	376.361
115.0	429.438	422.563	412.667	401.807	391.783
115.5	444.218	437.021	427.446	416.394	407.012
116.0	459.126	452.057	442.740	431.752	422.498
116.5	474.869	467.479	458.547	447.495	439.013
117.0	491.255	483.222	474.483	464.459	456.041
117.5	503.335	495.496	489.070	480.074	473.327
118.0	518.757	509.825	504.042	496.203	488.684
118.5	536.685	526.918	519.336	511.175	502.500
119.0	554.228	543.754	536.685	528.139	517.858
119.5	571.963	561.682	555.063	545.360	535.079
120.0	590.277	580.252	573.505	564.188	553.264
120.5	608.462	599.080	592.526	584.172	572.670
121.0	627.547	618.293	611.675	604.092	593.297
121.5	646.439	637.314	630.759	624.269	613.474
122.0	666.359	656.720	650.937	644.511	633.715
122.5	685.636	675.997	670.857	664.431	652.864
123.0	705.556	696.560	691.419	686.279	674.070
123.5	726.119	717.123	713.267	708.126	695.917
124.0	746.681	738.328	734.472	729.974	718.408
124.5	767.244	758.891	755.678	751.180	740.256
125.0	787.807	779.453	776.240	772.385	761.461
125.5	809.012	800.658	797.446	793.590	782.024
126.0	829.575	821.221	819.293	814.795	802.586
126.5	850.137	841.784	841.141	837.286	824.434
127.0	871.343	862.989	862.989	859.776	847.567
127.5	892.548	883.552	883.552	881.624	870.700
128.0	913.110	904.114	904.757	903.472	892.548
128.5	933.673	924.034	925.320	925.320	913.753
129.0	954.236	943.954	945.882	946.525	935.601
129.5	974.798	964.517	967.087	968.373	958.091
130.0	995.361	985.080	988.293	990.220	981.867
130.5	1015.924	1005.000	1010.141	1011.426	1004.357
131.0	1036.486	1024.920	1030.703	1031.988	1024.920
131.5	1055.764	1044.197	1051.266	1051.266	1044.840
132.0	1075.684	1063.475	1071.186	1071.828	1064.117
132.5	1094.961	1083.395	1091.106	1091.749	1083.395
133.0	1114.239	1103.315	1110.383	1111.669	1102.030
133.5	1133.516	1122.593	1130.304	1131.589	1121.950
134.0	1152.794	1141.227	1148.938	1150.866	1141.227
134.5	1170.144	1159.862	1166.931	1168.216	1159.862
135.0	1187.493	1177.855	1184.281	1185.566	1176.570
135.5	1204.201	1196.490	1201.630	1202.273	1193.277
136.0	1220.908	1213.839	1217.695	1219.623	1210.626
136.5	1238.257	1230.546	1233.759	1236.972	1228.619
137.0	1254.322	1247.254	1250.467	1253.037	1245.326
137.5	1270.387	1262.676	1265.889	1267.816	1260.105
138.0	1285.809	1278.098	1280.668	1281.953	1274.242
138.5	1301.231	1292.877	1295.447	1296.090	1287.736

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1316.010	1307.656	1310.227	1310.227	1301.231
139.5	1330.789	1322.436	1324.364	1323.721	1314.082
140.0	1344.926	1335.930	1338.500	1337.858	1328.219
140.5	1358.421	1348.782	1351.352	1350.710	1340.428
141.0	1371.915	1362.276	1364.204	1362.919	1352.637
141.5	1384.124	1374.485	1377.055	1375.128	1363.561
142.0	1396.976	1387.337	1389.265	1386.694	1375.128
142.5	1409.185	1399.546	1401.474	1398.903	1386.052
143.0	1421.394	1411.112	1413.040	1410.470	1397.618
143.5	1432.960	1423.321	1424.607	1422.036	1408.542
144.0	1443.884	1434.888	1435.530	1432.318	1418.823
144.5	1454.808	1445.812	1446.454	1442.599	1429.105
145.0	1465.089	1456.736	1456.736	1452.238	1438.743
145.5	1476.013	1467.660	1467.017	1463.162	1449.025
146.0	1486.295	1477.941	1477.298	1472.800	1459.306
146.5	1496.576	1488.222	1486.937	1483.082	1469.587
147.0	1506.215	1498.504	1495.933	1493.363	1479.869
147.5	1515.853	1508.142	1505.572	1503.002	1489.507
148.0	1525.492	1517.781	1513.926	1511.998	1499.789
148.5	1535.131	1527.420	1522.279	1520.994	1510.070
149.0	1544.127	1537.059	1530.633	1529.990	1520.351
149.5	1553.123	1546.055	1538.344	1538.986	1529.990
150.0	1562.119	1555.051	1546.697	1547.340	1538.986
150.5	1571.116	1564.047	1554.408	1555.051	1547.983
151.0	1579.469	1572.401	1562.119	1562.762	1556.336
151.5	1588.465	1580.754	1570.473	1570.473	1564.047
152.0	1596.819	1589.108	1578.184	1577.541	1571.758
152.5	1605.172	1596.819	1585.895	1585.252	1578.826
153.0	1613.526	1604.530	1593.606	1592.963	1585.252
153.5	1621.237	1612.241	1601.317	1600.674	1591.036
154.0	1628.948	1619.952	1609.670	1608.385	1597.461
154.5	1637.302	1627.020	1617.381	1615.454	1603.887
155.0	1645.013	1634.089	1625.092	1623.165	1610.956
155.5	1652.081	1640.514	1632.803	1630.876	1618.024
156.0	1659.149	1647.583	1641.157	1637.944	1625.092
156.5	1666.218	1654.651	1648.868	1645.655	1632.161
157.0	1673.286	1661.720	1656.579	1653.366	1639.229
157.5	1679.712	1668.146	1663.647	1660.435	1646.298
158.0	1686.138	1674.571	1670.716	1667.503	1653.366
158.5	1693.206	1681.640	1677.784	1674.571	1661.077
159.0	1698.990	1688.066	1684.210	1681.640	1668.146
159.5	1705.415	1694.491	1690.636	1688.708	1675.214
160.0	1711.199	1700.275	1697.062	1695.134	1682.282
160.5	1716.982	1706.058	1702.845	1701.560	1689.351
161.0	1722.765	1711.841	1708.628	1707.986	1696.419
161.5	1728.548	1718.267	1713.769	1714.412	1703.488
162.0	1734.974	1724.050	1718.910	1720.837	1709.913
162.5	1740.757	1729.834	1724.050	1726.621	1715.697
163.0	1746.541	1735.617	1729.191	1732.404	1721.480
163.5	1752.324	1740.757	1734.332	1738.187	1726.621
164.0	1758.107	1745.898	1738.830	1743.328	1731.761
164.5	1762.605	1751.039	1743.328	1748.468	1736.902
165.0	1767.746	1756.179	1747.826	1753.609	1741.400
165.5	1772.887	1760.677	1752.324	1758.107	1745.898
166.0	1778.027	1765.176	1756.822	1762.605	1749.754
166.5	1783.168	1769.674	1761.320	1766.461	1754.252

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1787.666	1773.529	1765.176	1770.316	1758.107
167.5	1792.164	1777.385	1769.674	1774.172	1762.605
168.0	1796.662	1781.240	1773.529	1778.027	1766.461
168.5	1801.160	1785.096	1777.385	1781.883	1770.959
169.0	1805.016	1788.309	1781.240	1785.096	1774.814
169.5	1808.229	1791.521	1784.453	1788.309	1778.670
170.0	1811.442	1794.734	1787.666	1791.521	1783.168
170.5	1814.654	1797.947	1790.236	1794.734	1786.381
171.0	1817.867	1800.518	1792.807	1797.947	1789.594
171.5	1820.438	1803.088	1795.377	1801.160	1792.807
172.0	1823.008	1805.658	1797.305	1803.731	1795.377
172.5	1825.578	1808.229	1799.232	1805.658	1797.305
173.0	1828.149	1810.799	1801.160	1808.229	1798.590
173.5	1830.076	1812.727	1803.088	1809.514	1799.875
174.0	1832.004	1814.654	1805.016	1810.799	1800.518
174.5	1833.289	1815.940	1806.301	1812.084	1801.160
175.0	1834.575	1817.867	1807.586	1812.727	1801.160
175.5	1835.860	1819.153	1809.514	1813.369	1801.803
176.0	1837.145	1820.438	1810.799	1813.369	1801.803
176.5	1837.787	1821.723	1811.442	1814.012	1801.803
177.0	1838.430	1823.008	1812.727	1814.012	1801.160
177.5	1839.715	1824.293	1814.012	1814.012	1801.160
178.0	1840.358	1824.293	1814.654	1814.012	1801.803
178.5	1840.358	1824.936	1815.297	1814.012	1801.803
179.0	1841.000	1825.578	1815.297	1814.012	1801.803
179.5	1841.643	1825.578	1815.940	1814.012	1801.803
180.0	1819.153	1819.153	1819.153	1819.153	1819.153

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	663.77	N.A.	7.10
0-30	1387.72	N.A.	14.90
0-40	2229.39	N.A.	23.90
0-60	3788.23	N.A.	40.60
0-80	4639.11	N.A.	49.70
0-90	4729.01	N.A.	50.70
10-90	4555.76	N.A.	48.80
20-40	1565.61	N.A.	16.80
20-50	2401.14	N.A.	25.70
40-70	2100.59	N.A.	22.50
60-80	850.88	N.A.	9.10
70-80	309.13	N.A.	3.30
80-90	89.91	N.A.	1.00
90-110	263.26	N.A.	2.80
90-120	675.82	N.A.	7.20
90-130	1369.1	N.A.	14.70
90-150	3184.42	N.A.	34.10
90-180	4602.33	N.A.	49.30
110-180	4339.07	N.A.	46.50
0-180	9331.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.26
10-20	490.51
20-30	723.95
30-40	841.67
40-50	835.53
50-60	723.32
60-70	541.75
70-80	309.13
80-90	89.91
90-100	56.78
100-110	206.48
110-120	412.56
120-130	693.28
130-140	906.53
140-150	908.79
150-160	750.71
160-170	494.69
170-180	172.51

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L8-830U-L15-830D-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-L8-830U-L15-830D-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	16.7	17.6	17.7	18.6	19.8	16.6	17.5	17.6	18.5	19.7
	3H	18.5	19.3	19.4	20.2	21.5	18.4	19.2	19.3	20.1	21.4
	4H	19.1	19.8	20.1	20.8	22.1	19.0	19.8	20.0	20.7	22.0
	6H	19.5	20.2	20.5	21.2	22.5	19.5	20.2	20.5	21.1	22.4
	8H	19.7	20.3	20.6	21.3	22.6	19.6	20.3	20.6	21.3	22.6
	12H	19.7	20.4	20.7	21.3	22.7	19.7	20.3	20.7	21.3	22.7

UGR Viewed Endwise

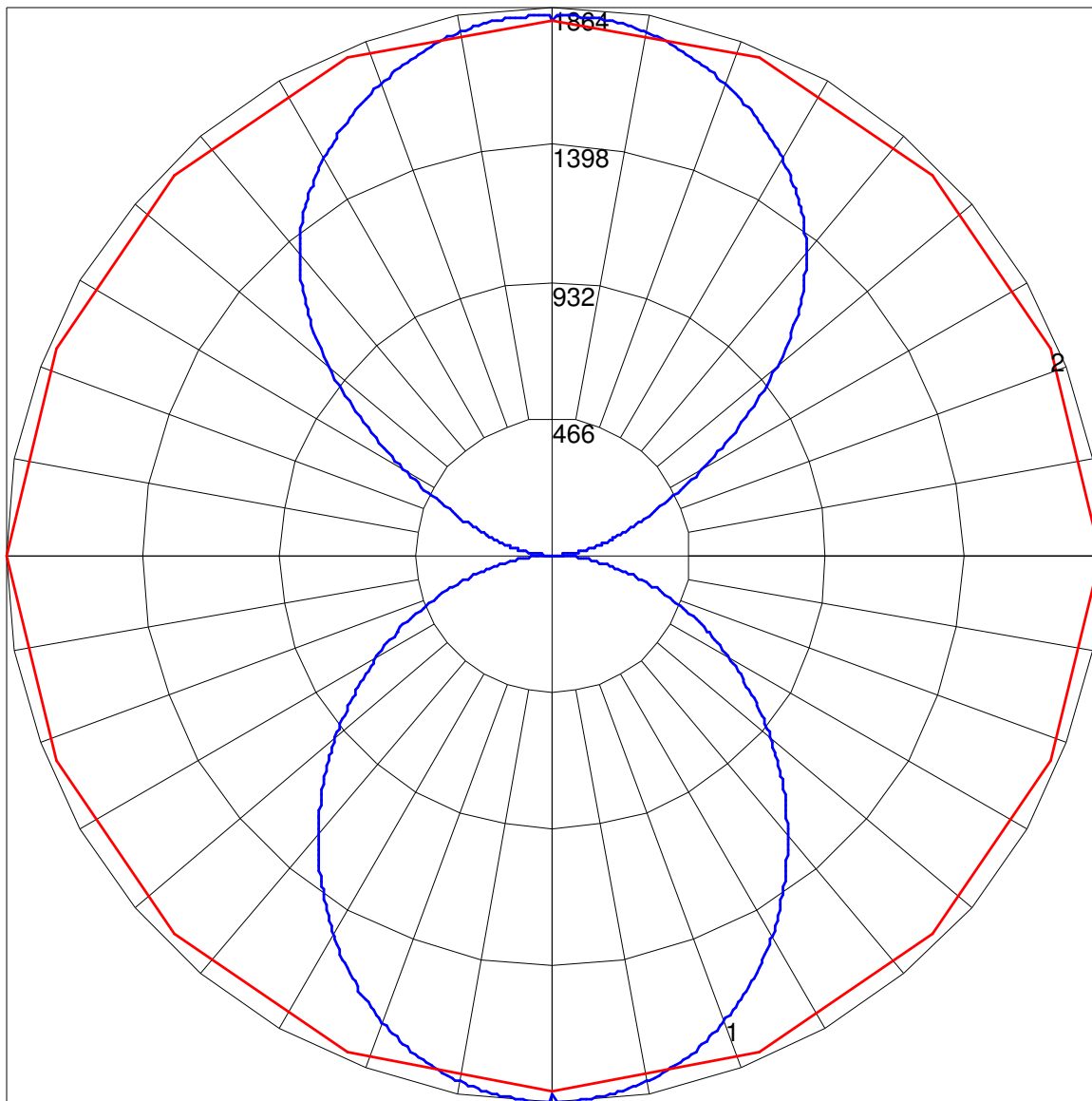
4H	2H	17.3	18.0	18.2	19.0	20.3	17.2	17.9	18.1	18.9	20.2
	3H	19.2	19.8	20.2	20.8	22.1	19.1	19.8	20.1	20.8	22.1
	4H	20.0	20.5	20.9	21.5	22.8	19.9	20.5	20.9	21.5	22.8
	6H	20.5	21.0	21.5	22.0	23.3	20.5	21.0	21.5	22.0	23.3
	8H	20.7	21.1	21.7	22.2	23.5	20.7	21.1	21.7	22.2	23.5
	12H	20.8	21.2	21.8	22.2	23.6	20.8	21.2	21.9	22.3	23.6

8H	4H	20.2	20.7	21.2	21.7	23.0	20.2	20.6	21.2	21.6	23.0
	6H	20.9	21.3	21.9	22.3	23.7	20.9	21.3	21.9	22.3	23.6
	8H	21.2	21.5	22.2	22.5	23.9	21.2	21.5	22.2	22.5	23.9
	12H	21.3	21.6	22.4	22.7	24.1	21.4	21.7	22.4	22.7	24.1

12H	4H	20.2	20.6	21.2	21.6	23.0	20.1	20.6	21.2	21.6	22.9
	6H	20.9	21.3	22.0	22.3	23.7	20.9	21.3	22.0	22.3	23.7
	8H	21.2	21.5	22.3	22.6	24.0	21.2	21.5	22.3	22.6	24.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1864.367 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.)