

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-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-L12-830U-L12-830D-F-F-DIM-UNV_

[LUMINAIRE] White linear extruded luminaire with up and downlight

[LAMP] 144 LEDs (2 LED boards with 72 LEDs per board)

[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	9806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	13341	13008	12859
55	12264	11967	11841
65	11312	11039	10919
75	9592	9587	9582
85	7492	7793	8018

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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	1935.844	1935.844	1935.844	1935.844	1935.844
0.5	1965.076	1937.468	1927.724	1931.784	1925.288
1.0	1965.076	1936.656	1927.724	1931.784	1925.288
1.5	1964.264	1935.844	1926.912	1931.784	1924.476
2.0	1963.452	1935.032	1926.100	1930.972	1924.476
2.5	1962.640	1934.220	1924.476	1930.160	1923.664
3.0	1961.016	1932.596	1923.664	1929.348	1922.040
3.5	1959.392	1930.972	1922.040	1927.724	1920.416
4.0	1957.768	1929.348	1920.416	1926.100	1918.792
4.5	1956.144	1926.912	1918.792	1924.476	1916.356
5.0	1954.520	1925.288	1916.356	1922.040	1913.920
5.5	1952.084	1922.852	1913.920	1919.604	1911.483
6.0	1949.648	1919.604	1911.483	1917.168	1908.235
6.5	1946.400	1917.168	1908.235	1913.920	1905.799
7.0	1943.964	1913.920	1905.799	1910.671	1902.551
7.5	1941.528	1910.671	1902.551	1907.423	1900.115
8.0	1937.468	1907.423	1898.491	1904.175	1896.867
8.5	1934.220	1903.363	1894.431	1900.115	1892.807
9.0	1930.160	1900.115	1891.183	1896.055	1888.747
9.5	1926.100	1896.055	1886.311	1891.183	1884.687
10.0	1922.040	1891.995	1882.251	1887.123	1879.815
10.5	1917.168	1887.123	1877.379	1882.251	1875.755
11.0	1913.107	1882.251	1872.507	1877.379	1870.071
11.5	1907.423	1877.379	1867.635	1872.507	1865.199
12.0	1902.551	1872.507	1862.763	1866.823	1859.514
12.5	1897.679	1866.823	1857.078	1861.139	1853.830
13.0	1891.995	1861.951	1851.394	1855.454	1848.146
13.5	1886.311	1855.454	1845.710	1848.958	1842.462
14.0	1880.627	1849.770	1839.214	1843.274	1836.778
14.5	1874.943	1844.086	1832.718	1836.778	1830.282
15.0	1869.259	1837.590	1826.222	1830.282	1823.786
15.5	1861.951	1831.906	1819.726	1822.974	1816.478
16.0	1853.830	1825.410	1812.418	1816.478	1809.982
16.5	1845.710	1818.102	1805.109	1809.170	1802.673
17.0	1838.402	1810.794	1797.801	1801.861	1795.365
17.5	1830.282	1802.673	1789.681	1793.741	1787.245
18.0	1822.162	1794.553	1781.561	1785.621	1779.125
18.5	1814.042	1786.433	1773.441	1776.689	1771.005
19.0	1805.921	1778.313	1766.133	1768.569	1761.261
19.5	1796.989	1770.193	1758.013	1758.825	1751.516
20.0	1788.869	1761.261	1750.704	1749.892	1741.772
20.5	1779.937	1753.141	1742.584	1740.148	1732.028
21.0	1771.005	1744.208	1733.652	1730.404	1721.472
21.5	1761.261	1735.276	1723.908	1720.660	1710.916
22.0	1752.329	1725.532	1713.352	1710.104	1701.172
22.5	1742.584	1715.788	1703.608	1699.548	1690.615
23.0	1732.840	1706.044	1693.863	1688.179	1680.059
23.5	1723.096	1696.299	1683.307	1677.623	1670.315
24.0	1712.540	1686.555	1673.563	1667.067	1659.759
24.5	1701.984	1675.999	1663.007	1656.511	1649.203
25.0	1692.239	1665.443	1652.451	1645.955	1638.646
25.5	1681.683	1654.887	1641.082	1635.398	1627.278
26.0	1670.315	1643.518	1630.526	1624.842	1616.722
26.5	1659.759	1632.962	1619.158	1614.286	1606.166

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.0	1648.391	1621.594	1607.790	1603.730	1594.798
27.5	1637.022	1610.226	1597.234	1593.174	1584.241
28.0	1625.654	1598.046	1585.053	1581.805	1572.873
28.5	1613.474	1585.865	1573.685	1571.249	1561.505
29.0	1601.294	1574.497	1562.317	1559.881	1550.137
29.5	1589.925	1562.317	1550.949	1547.701	1539.581
30.0	1577.745	1550.137	1539.581	1536.332	1528.212
30.5	1565.565	1537.957	1527.400	1524.964	1516.844
31.0	1552.573	1526.588	1515.220	1512.784	1505.476
31.5	1540.393	1514.408	1503.040	1500.604	1493.296
32.0	1527.400	1501.416	1490.860	1487.612	1481.115
32.5	1514.408	1489.236	1478.679	1475.431	1468.123
33.0	1501.416	1477.055	1466.499	1463.251	1455.131
33.5	1489.236	1464.063	1453.507	1450.259	1442.951
34.0	1475.431	1451.071	1441.327	1437.267	1429.959
34.5	1462.439	1438.079	1427.522	1424.274	1416.154
35.0	1449.447	1425.898	1414.530	1411.282	1402.350
35.5	1435.643	1412.094	1401.538	1398.290	1388.546
36.0	1421.838	1399.102	1388.546	1384.486	1375.554
36.5	1408.846	1386.110	1375.554	1371.493	1362.561
37.0	1395.042	1372.305	1361.749	1357.689	1348.757
37.5	1381.238	1358.501	1348.757	1343.885	1335.765
38.0	1366.621	1344.697	1334.953	1330.081	1321.961
38.5	1352.817	1330.893	1321.149	1317.088	1308.156
39.0	1339.825	1317.088	1307.344	1303.284	1295.164
39.5	1325.209	1303.284	1294.352	1289.480	1280.548
40.0	1311.404	1288.668	1280.548	1275.676	1267.556
40.5	1296.788	1274.864	1266.743	1261.871	1253.751
41.0	1282.984	1260.247	1252.939	1247.255	1239.135
41.5	1268.368	1246.443	1238.323	1233.451	1224.519
42.0	1254.563	1231.827	1224.519	1219.647	1210.714
42.5	1240.759	1218.023	1210.714	1205.030	1196.910
43.0	1226.143	1204.218	1196.910	1191.226	1182.294
43.5	1212.338	1189.602	1182.294	1177.422	1168.490
44.0	1197.722	1174.986	1167.678	1162.806	1154.685
44.5	1183.106	1160.370	1153.061	1148.189	1140.069
45.0	1168.490	1146.565	1139.257	1133.573	1126.265
45.5	1154.685	1131.949	1124.641	1119.769	1112.461
46.0	1140.069	1117.333	1110.025	1105.152	1098.656
46.5	1125.453	1102.716	1096.220	1091.348	1084.852
47.0	1110.837	1088.100	1081.604	1076.732	1070.236
47.5	1095.408	1073.484	1066.988	1062.116	1056.432
48.0	1080.792	1058.868	1052.372	1048.311	1041.815
48.5	1066.176	1044.251	1038.567	1033.695	1027.199
49.0	1050.747	1029.635	1023.951	1019.079	1013.395
49.5	1036.131	1015.019	1009.335	1005.275	999.591
50.0	1020.703	1000.403	994.718	990.658	984.974
50.5	1005.275	985.786	980.102	976.042	971.170
51.0	989.846	971.170	965.486	961.426	956.554
51.5	975.230	956.554	950.870	947.622	941.937
52.0	960.614	941.937	936.253	933.005	928.133
52.5	945.186	927.321	921.637	919.201	913.517
53.0	930.569	912.705	907.021	904.585	898.901
53.5	915.141	898.089	892.405	889.969	884.284
54.0	900.525	883.472	878.600	876.164	869.668
54.5	885.908	869.668	863.984	861.548	855.052

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55.0	871.292	855.864	850.180	847.744	841.248
55.5	857.488	841.248	835.563	833.127	827.443
56.0	842.060	826.631	820.947	819.323	812.827
56.5	827.443	812.827	806.737	804.951	798.536
57.0	813.639	798.211	792.364	790.415	784.325
57.5	799.348	784.082	778.073	776.286	769.953
58.0	785.056	770.115	763.700	762.076	755.742
58.5	770.683	756.067	749.571	748.109	742.101
59.0	756.554	741.938	735.361	733.980	728.215
59.5	742.831	727.647	720.907	719.933	714.492
60.0	728.784	713.436	706.616	705.804	700.525
60.5	714.898	699.551	692.811	691.593	686.396
61.0	701.256	685.665	679.088	677.708	672.592
61.5	686.640	671.943	665.446	663.904	658.950
62.0	672.267	657.813	651.317	650.180	644.984
62.5	657.570	644.740	638.000	637.107	631.748
63.0	643.441	633.209	627.769	627.363	622.978
63.5	629.149	620.623	616.319	615.426	610.879
64.0	620.542	608.362	604.464	602.678	597.481
64.5	607.144	595.288	591.066	589.442	584.570
65.0	592.121	581.322	577.830	576.287	571.577
65.5	576.774	567.193	564.026	563.295	558.504
66.0	561.996	553.388	550.546	550.221	545.106
66.5	547.379	539.259	536.823	536.823	532.276
67.0	532.925	525.211	523.262	523.506	519.365
67.5	518.715	511.407	509.621	510.108	506.048
68.0	504.343	497.603	495.979	496.628	492.406
68.5	489.889	483.555	482.256	483.149	479.008
69.0	474.948	469.426	468.452	468.939	465.122
69.5	460.413	455.540	454.404	454.972	451.480
70.0	446.040	441.493	440.681	440.924	437.839
70.5	431.911	427.364	426.795	427.039	424.115
71.0	417.457	413.316	413.153	413.478	410.311
71.5	403.003	399.268	399.593	399.836	397.075
72.0	388.955	385.139	385.788	386.113	383.758
72.5	374.907	371.253	372.309	372.634	370.685
73.0	361.022	357.693	359.154	359.560	357.855
73.5	347.542	344.294	346.000	346.730	344.863
74.0	334.225	330.896	333.007	333.576	332.358
74.5	320.908	317.742	320.096	320.665	319.771
75.0	307.510	304.668	307.348	307.916	307.185
75.5	294.274	291.595	294.680	295.411	294.599
76.0	280.876	279.008	282.175	282.987	282.338
76.5	268.209	266.585	269.751	270.645	270.076
77.0	255.866	254.080	257.571	258.383	257.490
77.5	243.117	241.899	245.391	246.041	245.147
78.0	230.693	229.719	233.211	234.185	233.292
78.5	218.351	217.864	221.193	222.330	221.599
79.0	206.495	206.008	209.419	210.799	210.231
79.5	194.640	194.396	197.807	199.268	198.781
80.0	182.947	183.028	186.195	188.225	187.575
80.5	171.173	171.904	175.152	177.100	176.613
81.0	159.886	161.023	164.189	166.219	165.895
81.5	149.005	150.223	153.471	155.501	155.257
82.0	138.855	139.667	142.996	145.107	144.863
82.5	128.704	129.435	132.683	134.795	134.632

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83.0	118.554	119.691	122.533	124.726	124.888
83.5	108.566	109.947	112.708	114.819	115.306
84.0	99.228	100.365	102.963	104.994	105.724
84.5	89.728	90.946	93.382	95.412	96.143
85.0	80.877	81.851	84.125	85.911	86.561
85.5	72.269	72.757	74.705	76.573	77.223
86.0	63.824	63.987	65.692	67.397	68.209
86.5	55.461	55.461	57.003	58.546	59.277
87.0	47.016	47.016	48.153	50.101	50.670
87.5	38.652	38.733	39.789	41.738	42.468
88.0	30.694	30.613	31.669	33.780	34.592
88.5	23.061	22.574	23.954	25.822	26.959
89.0	14.941	14.697	16.565	18.352	19.570
89.5	6.902	8.201	9.907	11.287	11.693
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.981	2.625	2.423	2.356	2.558
91.0	10.972	5.789	4.712	4.645	4.577
91.5	17.636	11.780	7.001	6.933	6.866
92.0	24.367	19.588	10.097	9.020	9.020
92.5	31.368	27.666	15.617	11.309	11.107
93.0	38.638	35.407	22.079	15.011	13.530
93.5	45.975	42.811	29.012	20.261	17.636
94.0	53.177	50.081	36.686	26.521	23.223
94.5	60.582	57.351	44.696	32.983	29.281
95.0	67.852	64.823	52.572	39.580	35.272
95.5	75.122	71.823	60.245	46.379	41.600
96.0	82.055	78.958	67.784	53.447	48.062
96.5	89.055	86.094	75.323	60.649	54.726
97.0	95.854	93.094	82.795	67.852	61.794
97.5	102.855	100.162	90.334	75.189	68.861
98.0	109.788	107.095	97.671	82.459	75.997
98.5	116.721	114.096	104.739	89.863	83.132
99.0	123.789	121.298	111.942	96.931	90.334
99.5	130.924	128.434	119.212	103.999	97.402
100.0	137.925	135.636	126.482	111.269	104.335
100.5	145.195	142.839	133.751	118.808	111.336
101.0	152.666	150.041	141.156	126.414	118.942
101.5	160.273	157.378	148.695	134.021	126.818
102.0	167.677	164.985	156.234	141.627	134.626
102.5	175.418	172.524	164.042	149.233	142.367
103.0	183.361	180.332	171.783	156.772	150.243
103.5	191.304	188.275	179.996	164.850	158.051
104.0	199.449	196.285	188.342	173.197	166.196
104.5	207.863	204.632	196.689	181.746	174.341
105.0	216.479	213.181	204.969	190.160	182.621
105.5	225.297	221.864	213.517	198.641	190.833
106.0	234.250	230.615	222.201	207.257	199.045
106.5	243.270	239.635	231.288	215.941	207.325
107.0	252.896	249.059	240.981	225.163	216.345
107.5	262.858	258.752	250.809	234.923	226.105
108.0	272.753	268.714	260.839	245.491	236.135
108.5	283.187	278.879	270.868	256.059	246.501
109.0	293.889	289.245	281.167	266.762	257.002
109.5	304.862	300.015	292.005	277.398	267.637
110.0	316.574	311.054	303.111	288.302	278.744
110.5	328.556	322.363	314.487	300.015	290.255

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111.0	340.672	334.210	326.267	312.199	301.832
111.5	353.058	346.394	338.249	324.584	313.747
112.0	365.915	358.914	350.163	336.970	325.123
112.5	378.839	371.771	362.212	349.288	337.172
113.0	392.369	385.032	374.935	362.010	349.759
113.5	406.303	398.898	388.397	375.742	363.289
114.0	420.438	413.034	402.668	390.349	378.300
114.5	435.045	427.641	417.207	405.562	394.253
115.0	449.854	442.652	432.285	420.909	410.409
115.5	465.336	457.797	447.767	436.190	426.362
116.0	480.953	473.548	463.788	452.277	442.584
116.5	497.445	489.704	480.347	468.769	459.884
117.0	514.609	506.195	497.041	486.540	477.722
117.5	527.264	519.052	512.321	502.897	495.829
118.0	543.420	534.063	528.005	519.793	511.917
118.5	562.200	551.968	544.025	535.477	526.389
119.0	580.576	569.604	562.200	553.247	542.477
119.5	599.155	588.385	581.451	571.287	560.517
120.0	618.339	607.838	600.770	591.010	579.567
120.5	637.389	627.561	620.695	611.944	599.895
121.0	657.381	647.688	640.754	632.811	621.503
121.5	677.171	667.612	660.746	653.948	642.639
122.0	698.038	687.941	681.883	675.151	663.843
122.5	718.232	708.135	702.750	696.019	683.902
123.0	739.099	729.675	724.290	718.905	706.116
123.5	760.639	751.215	747.177	741.792	729.002
124.0	782.179	773.429	769.390	764.678	752.562
124.5	803.720	794.969	791.603	786.891	775.448
125.0	825.260	816.509	813.144	809.105	797.662
125.5	847.473	838.723	835.357	831.318	819.202
126.0	869.014	860.263	858.243	853.531	840.742
126.5	890.554	881.803	881.130	877.091	863.628
127.0	912.767	904.016	904.016	900.651	887.861
127.5	934.980	925.557	925.557	923.537	912.094
128.0	956.521	947.097	947.770	946.424	934.980
128.5	978.061	967.964	969.310	969.310	957.194
129.0	999.601	988.831	990.850	991.524	980.080
129.5	1021.141	1010.371	1013.064	1014.410	1003.640
130.0	1042.682	1031.911	1035.277	1037.297	1028.546
130.5	1064.222	1052.779	1058.164	1059.510	1052.105
131.0	1085.762	1073.646	1079.704	1081.050	1073.646
131.5	1105.956	1093.840	1101.244	1101.244	1094.513
132.0	1126.823	1114.034	1122.111	1122.784	1114.707
132.5	1147.017	1134.901	1142.978	1143.651	1134.901
133.0	1167.211	1155.768	1163.172	1164.518	1154.422
133.5	1187.405	1175.962	1184.039	1185.386	1175.289
134.0	1207.599	1195.483	1203.560	1205.580	1195.483
134.5	1225.774	1215.003	1222.408	1223.754	1215.003
135.0	1243.948	1233.851	1240.582	1241.929	1232.505
135.5	1261.450	1253.372	1258.757	1259.430	1250.006
136.0	1278.951	1271.546	1275.585	1277.605	1268.181
136.5	1297.126	1289.048	1292.414	1295.779	1287.029
137.0	1313.954	1306.549	1309.915	1312.608	1304.530
137.5	1330.782	1322.705	1326.070	1328.090	1320.012
138.0	1346.937	1338.860	1341.552	1342.898	1334.821
138.5	1363.092	1354.342	1357.034	1357.707	1348.957

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1378.574	1369.824	1372.516	1372.516	1363.092
139.5	1394.057	1385.306	1387.325	1386.652	1376.555
140.0	1408.865	1399.442	1402.134	1401.461	1391.364
140.5	1423.001	1412.904	1415.597	1414.924	1404.154
141.0	1437.137	1427.040	1429.059	1427.713	1416.943
141.5	1449.926	1439.830	1442.522	1440.503	1428.386
142.0	1463.389	1453.292	1455.312	1452.619	1440.503
142.5	1476.179	1466.082	1468.101	1465.409	1451.946
143.0	1488.968	1478.198	1480.217	1477.525	1464.062
143.5	1501.085	1490.988	1492.334	1489.641	1475.506
144.0	1512.528	1503.104	1503.777	1500.411	1486.276
144.5	1523.971	1514.547	1515.220	1511.182	1497.046
145.0	1534.741	1525.990	1525.990	1521.278	1507.143
145.5	1546.184	1537.434	1536.761	1532.722	1517.913
146.0	1556.954	1548.204	1547.531	1542.819	1528.683
146.5	1567.725	1558.974	1557.628	1553.589	1539.453
147.0	1577.822	1569.744	1567.051	1564.359	1550.223
147.5	1587.919	1579.841	1577.148	1574.456	1560.320
148.0	1598.016	1589.938	1585.899	1583.880	1571.090
148.5	1608.113	1600.035	1594.650	1593.304	1581.860
149.0	1617.536	1610.132	1603.401	1602.727	1592.630
149.5	1626.960	1619.556	1611.478	1612.151	1602.727
150.0	1636.384	1628.980	1620.229	1620.902	1612.151
150.5	1645.808	1638.403	1628.306	1628.980	1621.575
151.0	1654.559	1647.154	1636.384	1637.057	1630.326
151.5	1663.982	1655.905	1645.135	1645.135	1638.403
152.0	1672.733	1664.656	1653.212	1652.539	1646.481
152.5	1681.484	1672.733	1661.290	1660.617	1653.886
153.0	1690.235	1680.811	1669.368	1668.694	1660.617
153.5	1698.312	1688.888	1677.445	1676.772	1666.675
154.0	1706.390	1696.966	1686.196	1684.850	1673.406
154.5	1715.141	1704.370	1694.273	1692.254	1680.138
155.0	1723.218	1711.775	1702.351	1700.332	1687.542
155.5	1730.623	1718.506	1710.429	1708.409	1694.947
156.0	1738.027	1725.911	1719.179	1715.814	1702.351
156.5	1745.431	1733.315	1727.257	1723.891	1709.755
157.0	1752.836	1740.720	1735.334	1731.969	1717.160
157.5	1759.567	1747.451	1742.739	1739.373	1724.564
158.0	1766.299	1754.182	1750.143	1746.778	1731.969
158.5	1773.703	1761.587	1757.548	1754.182	1740.046
159.0	1779.761	1768.318	1764.279	1761.587	1747.451
159.5	1786.493	1775.049	1771.010	1768.991	1754.855
160.0	1792.551	1781.107	1777.742	1775.722	1762.260
160.5	1798.609	1787.166	1783.800	1782.454	1769.664
161.0	1804.667	1793.224	1789.858	1789.185	1777.069
161.5	1810.725	1799.955	1795.243	1795.916	1784.473
162.0	1817.457	1806.013	1800.628	1802.648	1791.204
162.5	1823.515	1812.072	1806.013	1808.706	1797.263
163.0	1829.573	1818.130	1811.398	1814.764	1803.321
163.5	1835.631	1823.515	1816.783	1820.822	1808.706
164.0	1841.689	1828.900	1821.495	1826.207	1814.091
164.5	1846.401	1834.285	1826.207	1831.592	1819.476
165.0	1851.786	1839.670	1830.919	1836.977	1824.188
165.5	1857.171	1844.382	1835.631	1841.689	1828.900
166.0	1862.556	1849.094	1840.343	1846.401	1832.939
166.5	1867.942	1853.806	1845.055	1850.440	1837.651

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1872.653	1857.845	1849.094	1854.479	1841.689
167.5	1877.365	1861.883	1853.806	1858.518	1846.401
168.0	1882.077	1865.922	1857.845	1862.556	1850.440
168.5	1886.789	1869.961	1861.883	1866.595	1855.152
169.0	1890.828	1873.327	1865.922	1869.961	1859.191
169.5	1894.194	1876.692	1869.288	1873.327	1863.230
170.0	1897.559	1880.058	1872.653	1876.692	1867.942
170.5	1900.925	1883.424	1875.346	1880.058	1871.307
171.0	1904.291	1886.116	1878.038	1883.424	1874.673
171.5	1906.983	1888.809	1880.731	1886.789	1878.038
172.0	1909.676	1891.501	1882.750	1889.482	1880.731
172.5	1912.368	1894.194	1884.770	1891.501	1882.750
173.0	1915.061	1896.886	1886.789	1894.194	1884.097
173.5	1917.080	1898.906	1888.809	1895.540	1885.443
174.0	1919.100	1900.925	1890.828	1896.886	1886.116
174.5	1920.446	1902.271	1892.174	1898.232	1886.789
175.0	1921.792	1904.291	1893.521	1898.906	1886.789
175.5	1923.138	1905.637	1895.540	1899.579	1887.462
176.0	1924.485	1906.983	1896.886	1899.579	1887.462
176.5	1925.158	1908.329	1897.559	1900.252	1887.462
177.0	1925.831	1909.676	1898.906	1900.252	1886.789
177.5	1927.177	1911.022	1900.252	1900.252	1886.789
178.0	1927.850	1911.022	1900.925	1900.252	1887.462
178.5	1927.850	1911.695	1901.598	1900.252	1887.462
179.0	1928.523	1912.368	1901.598	1900.252	1887.462
179.5	1929.197	1912.368	1902.271	1900.252	1887.462
180.0	1905.637	1905.637	1905.637	1905.637	1905.637

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	699.63	N.A.	7.10
0-30	1462.68	N.A.	14.90
0-40	2349.81	N.A.	24.00
0-60	3992.86	N.A.	40.70
0-80	4889.7	N.A.	49.90
0-90	4984.47	N.A.	50.80
10-90	4801.85	N.A.	49.00
20-40	1650.19	N.A.	16.80
20-50	2530.85	N.A.	25.80
40-70	2214.06	N.A.	22.60
60-80	896.84	N.A.	9.10
70-80	325.83	N.A.	3.30
80-90	94.76	N.A.	1.00
90-110	275.78	N.A.	2.80
90-120	707.95	N.A.	7.20
90-130	1434.19	N.A.	14.60
90-150	3335.81	N.A.	34.00
90-180	4821.13	N.A.	49.20
110-180	4545.35	N.A.	46.40
0-180	9805.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.62
10-20	517.01
20-30	763.05
30-40	887.13
40-50	880.66
50-60	762.39
60-70	571.01
70-80	325.83
80-90	94.76
90-100	59.48
100-110	216.30
110-120	432.17
120-130	726.24
130-140	949.62
140-150	952.00
150-160	786.40
160-170	518.20
170-180	180.72

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-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-L12-830U-L12-830D-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	16.8	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

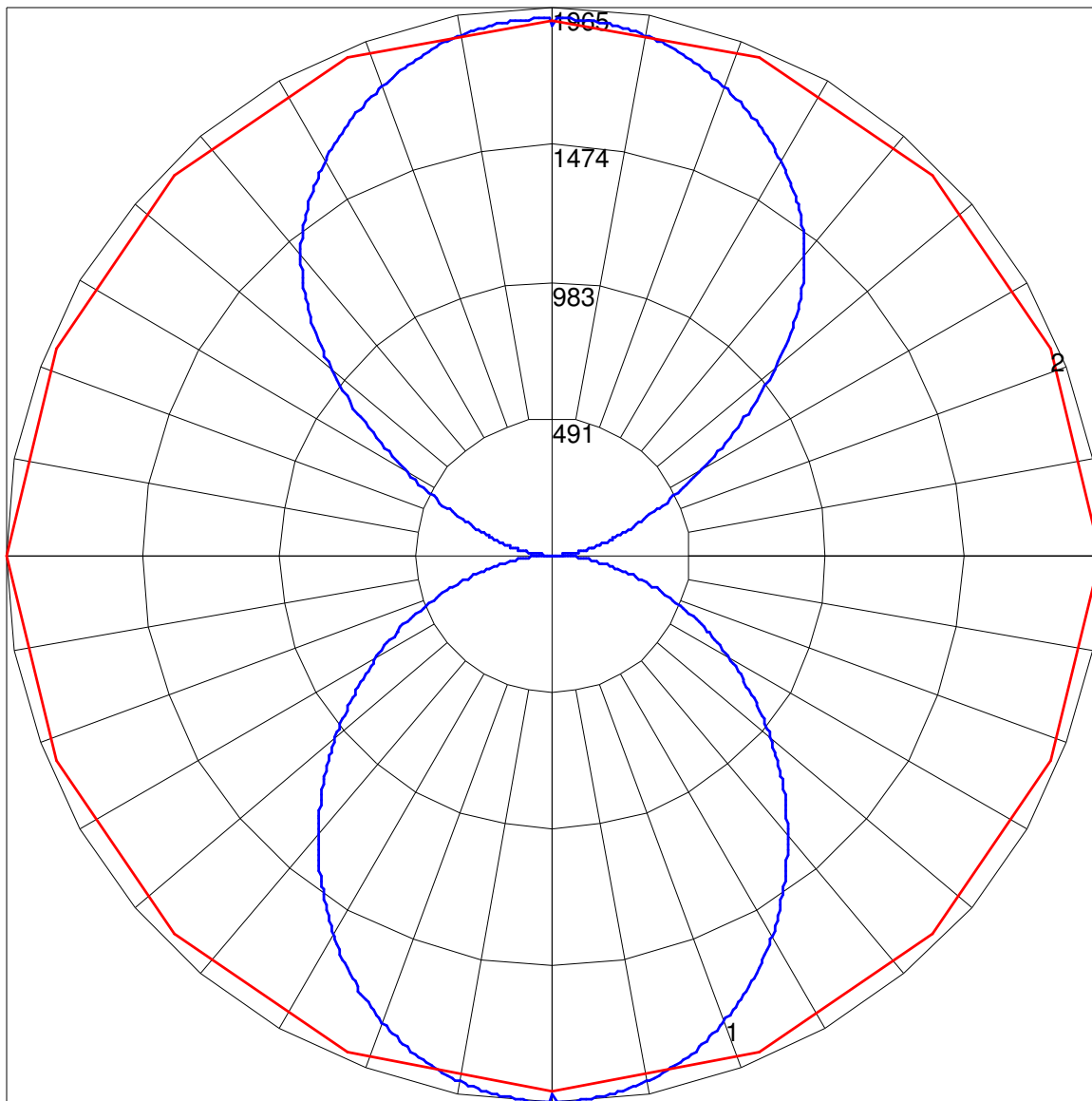
12H	4H	20.3	20.7	21.3	21.8	23.1	19.6	20.3	20.6	21.3
	6H	21.1	21.4	22.1	22.4	23.8	19.7	20.4	20.7	21.4
	8H	21.3	21.6	22.4	22.7	24.1	19.8	20.4	20.7	21.4

Maximum UGR = 24.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L12-830D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1965.076 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.)