

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-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-L8-830D-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	8165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	68.4
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	11109	10832	10708
55	10212	9965	9860
65	9419	9192	9092
75	7988	7983	7979
85	6239	6489	6677

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-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	1611.998	1611.998	1611.998	1611.998	1611.998
0.5	1636.340	1613.350	1605.236	1608.617	1603.208
1.0	1636.340	1612.674	1605.236	1608.617	1603.208
1.5	1635.664	1611.998	1604.560	1608.617	1602.531
2.0	1634.988	1611.322	1603.884	1607.941	1602.531
2.5	1634.312	1610.646	1602.531	1607.265	1601.855
3.0	1632.959	1609.293	1601.855	1606.589	1600.503
3.5	1631.607	1607.941	1600.503	1605.236	1599.151
4.0	1630.255	1606.589	1599.151	1603.884	1597.798
4.5	1628.902	1604.560	1597.798	1602.531	1595.770
5.0	1627.550	1603.208	1595.770	1600.503	1593.741
5.5	1625.521	1601.179	1593.741	1598.474	1591.713
6.0	1623.493	1598.474	1591.713	1596.446	1589.008
6.5	1620.788	1596.446	1589.008	1593.741	1586.979
7.0	1618.760	1593.741	1586.979	1591.037	1584.275
7.5	1616.731	1591.037	1584.275	1588.332	1582.246
8.0	1613.350	1588.332	1580.894	1585.627	1579.542
8.5	1610.646	1584.951	1577.513	1582.246	1576.161
9.0	1607.265	1582.246	1574.808	1578.865	1572.780
9.5	1603.884	1578.865	1570.751	1574.808	1569.399
10.0	1600.503	1575.485	1567.370	1571.428	1565.342
10.5	1596.446	1571.428	1563.313	1567.370	1561.961
11.0	1593.065	1567.370	1559.256	1563.313	1557.228
11.5	1588.332	1563.313	1555.199	1559.256	1553.171
12.0	1584.275	1559.256	1551.142	1554.523	1548.438
12.5	1580.218	1554.523	1546.409	1549.790	1543.704
13.0	1575.485	1550.466	1541.676	1545.057	1538.971
13.5	1570.751	1545.057	1536.943	1539.647	1534.238
14.0	1566.018	1540.324	1531.533	1534.914	1529.505
14.5	1561.285	1535.590	1526.124	1529.505	1524.095
15.0	1556.552	1530.181	1520.714	1524.095	1518.686
15.5	1550.466	1525.448	1515.305	1518.010	1512.600
16.0	1543.704	1520.038	1509.220	1512.600	1507.191
16.5	1536.943	1513.953	1503.134	1506.515	1501.105
17.0	1530.857	1507.867	1497.048	1500.429	1495.020
17.5	1524.095	1501.105	1490.287	1493.668	1488.258
18.0	1517.334	1494.344	1483.525	1486.906	1481.496
18.5	1510.572	1487.582	1476.763	1479.468	1474.735
19.0	1503.810	1480.820	1470.678	1472.706	1466.621
19.5	1496.372	1474.059	1463.916	1464.592	1458.507
20.0	1489.610	1466.621	1457.830	1457.154	1450.392
20.5	1482.173	1459.859	1451.069	1449.040	1442.278
21.0	1474.735	1452.421	1443.631	1440.926	1433.488
21.5	1466.621	1444.983	1435.517	1432.812	1424.698
22.0	1459.183	1436.869	1426.726	1424.022	1416.584
22.5	1451.069	1428.755	1418.612	1415.231	1407.793
23.0	1442.955	1420.641	1410.498	1405.765	1399.003
23.5	1434.840	1412.527	1401.708	1396.975	1390.889
24.0	1426.050	1404.413	1393.594	1388.184	1382.099
24.5	1417.260	1395.622	1384.804	1379.394	1373.309
25.0	1409.146	1386.832	1376.013	1370.604	1364.518
25.5	1400.356	1378.042	1366.547	1361.814	1355.052
26.0	1390.889	1368.575	1357.757	1353.023	1346.262
26.5	1382.099	1359.785	1348.290	1344.233	1337.471

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27.0	1372.632	1350.319	1338.824	1335.443	1328.005
27.5	1363.166	1340.852	1330.034	1326.653	1319.215
28.0	1353.700	1330.710	1319.891	1317.186	1309.748
28.5	1343.557	1320.567	1310.424	1308.396	1300.282
29.0	1333.414	1311.101	1300.958	1298.930	1290.815
29.5	1323.948	1300.958	1291.492	1288.787	1282.025
30.0	1313.805	1290.815	1282.025	1279.320	1272.559
30.5	1303.663	1280.673	1271.883	1269.854	1263.092
31.0	1292.844	1271.206	1261.740	1259.711	1253.626
31.5	1282.701	1261.064	1251.597	1249.569	1243.483
32.0	1271.883	1250.245	1241.455	1238.750	1233.341
32.5	1261.064	1240.102	1231.312	1228.607	1222.522
33.0	1250.245	1229.960	1221.170	1218.465	1211.703
33.5	1240.102	1219.141	1210.351	1207.646	1201.561
34.0	1228.607	1208.322	1200.208	1196.827	1190.742
34.5	1217.789	1197.503	1188.713	1186.009	1179.247
35.0	1206.970	1187.361	1177.894	1175.190	1167.752
35.5	1195.475	1175.866	1167.076	1164.371	1156.257
36.0	1183.980	1165.047	1156.257	1152.876	1145.438
36.5	1173.161	1154.228	1145.438	1142.057	1134.619
37.0	1161.666	1142.733	1133.943	1130.562	1123.124
37.5	1150.171	1131.238	1123.124	1119.067	1112.306
38.0	1138.000	1119.744	1111.629	1107.572	1100.811
38.5	1126.505	1108.249	1100.134	1096.754	1089.316
39.0	1115.686	1096.754	1088.640	1085.259	1078.497
39.5	1103.515	1085.259	1077.821	1073.764	1066.326
40.0	1092.020	1073.088	1066.326	1062.269	1055.507
40.5	1079.849	1061.593	1054.831	1050.774	1044.012
41.0	1068.354	1049.421	1043.336	1038.603	1031.841
41.5	1056.183	1037.927	1031.165	1027.108	1019.670
42.0	1044.688	1025.755	1019.670	1015.613	1008.175
42.5	1033.193	1014.260	1008.175	1003.442	996.680
43.0	1021.022	1002.765	996.680	991.947	984.509
43.5	1009.527	990.594	984.509	980.452	973.014
44.0	997.356	978.423	972.338	968.281	961.519
44.5	985.185	966.252	960.167	956.110	949.348
45.0	973.014	954.757	948.672	943.938	937.853
45.5	961.519	942.586	936.500	932.443	926.358
46.0	949.348	930.415	924.329	920.272	914.863
46.5	937.177	918.244	912.834	908.777	903.368
47.0	925.006	906.073	900.663	896.606	891.197
47.5	912.158	893.902	888.492	884.435	879.702
48.0	899.987	881.730	876.321	872.940	867.531
48.5	887.816	869.559	864.826	860.769	855.360
49.0	874.969	857.388	852.655	848.598	843.865
49.5	862.798	845.217	840.484	837.103	832.370
50.0	849.950	833.046	828.313	824.932	820.199
50.5	837.103	820.875	816.142	812.761	808.704
51.0	824.256	808.704	803.970	800.590	796.533
51.5	812.085	796.533	791.799	789.095	784.361
52.0	799.913	784.361	779.628	776.923	772.866
52.5	787.066	772.190	767.457	765.429	760.695
53.0	774.895	760.019	755.286	753.257	748.524
53.5	762.048	747.848	743.115	741.086	736.353
54.0	749.877	735.677	731.620	729.591	724.182
54.5	737.705	724.182	719.449	717.420	712.011

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55.0	725.534	712.687	707.954	705.925	700.516
55.5	714.039	700.516	695.783	693.754	689.021
56.0	701.192	688.345	683.612	682.259	676.850
56.5	689.021	676.850	671.779	670.291	664.949
57.0	677.526	664.679	659.810	658.187	653.116
57.5	665.625	652.913	647.910	646.422	641.148
58.0	653.725	641.283	635.941	634.589	629.315
58.5	641.756	629.585	624.176	622.959	617.955
59.0	629.991	617.820	612.343	611.193	606.392
59.5	618.564	605.919	600.307	599.496	594.965
60.0	606.866	594.086	588.406	587.730	583.335
60.5	595.303	582.524	576.911	575.897	571.570
61.0	583.944	570.961	565.484	564.335	560.075
61.5	571.772	559.534	554.124	552.840	548.715
62.0	559.804	547.768	542.359	541.412	537.085
62.5	547.565	536.882	531.270	530.526	526.063
63.0	535.800	527.280	522.750	522.412	518.760
63.5	523.899	516.800	513.216	512.472	508.685
64.0	516.732	506.589	503.344	501.856	497.529
64.5	505.575	495.703	492.187	490.834	486.777
65.0	493.066	484.073	481.165	479.880	475.959
65.5	480.286	472.307	469.670	469.062	465.072
66.0	467.980	460.812	458.446	458.175	453.915
66.5	455.809	449.047	447.018	447.018	443.232
67.0	443.773	437.349	435.726	435.929	432.481
67.5	431.940	425.854	424.367	424.772	421.391
68.0	419.971	414.359	413.007	413.548	410.032
68.5	407.936	402.661	401.580	402.323	398.875
69.0	395.494	390.896	390.085	390.490	387.312
69.5	383.390	379.333	378.387	378.860	375.953
70.0	371.422	367.636	366.959	367.162	364.593
70.5	359.657	355.870	355.397	355.600	353.165
71.0	347.621	344.172	344.037	344.308	341.671
71.5	335.585	332.475	332.745	332.948	330.649
72.0	323.887	320.709	321.250	321.521	319.560
72.5	312.189	309.147	310.026	310.296	308.673
73.0	300.627	297.855	299.072	299.410	297.990
73.5	289.402	286.698	288.118	288.726	287.171
74.0	278.313	275.541	277.299	277.772	276.758
74.5	267.224	264.587	266.548	267.021	266.277
75.0	256.067	253.700	255.932	256.405	255.796
75.5	245.045	242.814	245.383	245.992	245.316
76.0	233.888	232.333	234.970	235.647	235.106
76.5	223.340	221.988	224.625	225.369	224.895
77.0	213.062	211.575	214.482	215.158	214.415
77.5	202.446	201.432	204.340	204.881	204.137
78.0	192.101	191.290	194.197	195.008	194.265
78.5	181.823	181.417	184.190	185.136	184.528
79.0	171.951	171.545	174.385	175.535	175.061
79.5	162.079	161.876	164.716	165.933	165.527
80.0	152.342	152.410	155.047	156.737	156.196
80.5	142.537	143.146	145.851	147.473	147.068
81.0	133.139	134.085	136.722	138.413	138.142
81.5	124.078	125.092	127.797	129.487	129.284
82.0	115.626	116.302	119.074	120.832	120.629
82.5	107.174	107.782	110.487	112.245	112.110

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83.0	98.721	99.668	102.035	103.860	103.995
83.5	90.404	91.554	93.853	95.611	96.017
84.0	82.628	83.575	85.739	87.429	88.038
84.5	74.717	75.731	77.760	79.450	80.059
85.0	67.347	68.158	70.052	71.539	72.080
85.5	60.179	60.585	62.208	63.763	64.304
86.0	53.147	53.282	54.702	56.122	56.799
86.5	46.183	46.183	47.467	48.752	49.361
87.0	39.150	39.150	40.097	41.720	42.193
87.5	32.186	32.253	33.133	34.755	35.364
88.0	25.559	25.492	26.371	28.129	28.805
88.5	19.203	18.798	19.947	21.502	22.449
89.0	12.442	12.239	13.794	15.282	16.296
89.5	5.748	6.829	8.249	9.399	9.737
90.0	0.000	0.000	0.000	0.000	0.000
90.5	4.148	2.186	2.018	1.962	2.130
91.0	9.137	4.821	3.924	3.868	3.812
91.5	14.686	9.809	5.829	5.773	5.717
92.0	20.291	16.311	8.408	7.511	7.511
92.5	26.120	23.038	13.004	9.417	9.249
93.0	32.174	29.484	18.385	12.500	11.267
93.5	38.284	35.649	24.159	16.872	14.686
94.0	44.281	41.703	30.549	22.085	19.338
94.5	50.447	47.757	37.219	27.466	24.383
95.0	56.501	53.978	43.777	32.959	29.371
95.5	62.555	59.808	50.167	38.620	34.640
96.0	68.328	65.749	56.445	44.506	40.021
96.5	74.157	71.691	62.723	50.503	45.571
97.0	79.819	77.521	68.944	56.501	51.456
97.5	85.648	83.406	75.222	62.611	57.342
98.0	91.422	89.179	81.332	68.664	63.283
98.5	97.195	95.009	87.218	74.830	69.225
99.0	103.080	101.006	93.215	80.715	75.222
99.5	109.022	106.948	99.269	86.601	81.108
100.0	114.851	112.946	105.323	92.655	86.881
100.5	120.905	118.943	111.376	98.933	92.711
101.0	127.127	124.941	117.542	105.266	99.045
101.5	133.461	131.051	123.820	111.600	105.603
102.0	139.627	137.385	130.098	117.934	112.105
102.5	146.073	143.662	136.600	124.268	118.551
103.0	152.687	150.164	143.046	130.546	125.109
103.5	159.301	156.779	149.884	137.272	131.611
104.0	166.083	163.449	156.835	144.223	138.393
104.5	173.090	170.399	163.785	151.342	145.176
105.0	180.265	177.518	170.680	158.348	152.070
105.5	187.607	184.749	177.798	165.411	158.909
106.0	195.062	192.036	185.029	172.585	165.747
106.5	202.573	199.547	192.596	179.816	172.641
107.0	210.589	207.394	200.668	187.495	180.153
107.5	218.885	215.466	208.851	195.623	188.280
108.0	227.124	223.761	217.203	204.423	196.632
108.5	235.813	232.225	225.555	213.223	205.264
109.0	244.725	240.857	234.131	222.136	214.008
109.5	253.861	249.826	243.155	230.992	222.864
110.0	263.615	259.018	252.404	240.073	232.113
110.5	273.592	268.435	261.877	249.826	241.698

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111.0	283.681	278.300	271.686	259.971	251.339
111.5	293.995	288.446	281.663	270.285	261.260
112.0	304.701	298.872	291.585	280.598	270.733
112.5	315.463	309.578	301.618	290.856	280.767
113.0	326.730	320.620	312.212	301.450	291.248
113.5	338.332	332.167	323.423	312.885	302.515
114.0	350.103	343.938	335.306	325.048	315.015
114.5	362.267	356.101	347.413	337.716	328.299
115.0	374.598	368.601	359.969	350.496	341.752
115.5	387.490	381.213	372.861	363.220	355.036
116.0	400.495	394.329	386.201	376.616	368.545
116.5	414.227	407.781	399.990	390.349	382.950
117.0	428.521	421.514	413.891	405.147	397.804
117.5	439.059	432.220	426.615	418.768	412.882
118.0	452.511	444.720	439.675	432.837	426.279
118.5	468.150	459.630	453.016	445.897	438.330
119.0	483.452	474.316	468.150	460.695	451.727
119.5	498.923	489.954	484.181	475.717	466.749
120.0	514.898	506.153	500.268	492.140	482.611
120.5	530.760	522.577	516.859	509.573	499.539
121.0	547.408	539.336	533.563	526.949	517.532
121.5	563.887	555.928	550.211	544.549	535.133
122.0	581.264	572.856	567.811	562.206	552.789
122.5	598.079	589.672	585.187	579.582	569.493
123.0	615.456	607.608	603.124	598.640	587.990
123.5	633.392	625.545	622.182	617.698	607.048
124.0	651.329	644.042	640.679	636.756	626.666
124.5	669.266	661.979	659.177	655.253	645.724
125.0	687.203	679.916	677.113	673.750	664.221
125.5	705.700	698.413	695.611	692.247	682.158
126.0	723.637	716.350	714.668	710.745	700.095
126.5	741.574	734.287	733.726	730.363	719.153
127.0	760.071	752.784	752.784	749.981	739.332
127.5	778.568	770.721	770.721	769.039	759.510
128.0	796.505	788.658	789.218	788.097	778.568
128.5	814.442	806.034	807.155	807.155	797.066
129.0	832.379	823.410	825.092	825.652	816.123
129.5	850.315	841.347	843.589	844.710	835.742
130.0	868.252	859.284	862.086	863.768	856.481
130.5	886.189	876.660	881.144	882.265	876.099
131.0	904.126	894.036	899.081	900.202	894.036
131.5	920.941	910.852	917.018	917.018	911.412
132.0	938.318	927.668	934.394	934.954	928.228
132.5	955.133	945.044	951.770	952.331	945.044
133.0	971.949	962.420	968.586	969.707	961.299
133.5	988.765	979.236	985.962	987.083	978.675
134.0	1005.581	995.491	1002.217	1003.899	995.491
134.5	1020.715	1011.746	1017.912	1019.033	1011.746
135.0	1035.849	1027.441	1033.046	1034.167	1026.320
135.5	1050.422	1043.696	1048.180	1048.741	1040.894
136.0	1064.996	1058.830	1062.194	1063.875	1056.028
136.5	1080.130	1073.404	1076.207	1079.009	1071.722
137.0	1094.143	1087.978	1090.780	1093.022	1086.296
137.5	1108.156	1101.430	1104.233	1105.914	1099.188
138.0	1121.609	1114.883	1117.125	1118.246	1111.520
138.5	1135.062	1127.775	1130.017	1130.577	1123.291

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

139.0	1147.954	1140.667	1142.909	1142.909	1135.062
139.5	1160.846	1153.559	1155.241	1154.680	1146.272
140.0	1173.177	1165.330	1167.572	1167.012	1158.604
140.5	1184.948	1176.540	1178.783	1178.222	1169.254
141.0	1196.719	1188.311	1189.993	1188.872	1179.904
141.5	1207.369	1198.961	1201.204	1199.522	1189.433
142.0	1218.580	1210.172	1211.853	1209.611	1199.522
142.5	1229.230	1220.822	1222.503	1220.261	1209.051
143.0	1239.880	1230.911	1232.593	1230.351	1219.140
143.5	1249.969	1241.561	1242.682	1240.440	1228.669
144.0	1259.498	1251.651	1252.211	1249.409	1237.638
144.5	1269.027	1261.180	1261.740	1258.377	1246.606
145.0	1277.995	1270.709	1270.709	1266.785	1255.014
145.5	1287.524	1280.237	1279.677	1276.314	1263.982
146.0	1296.493	1289.206	1288.645	1284.722	1272.951
146.5	1305.461	1298.174	1297.053	1293.690	1281.919
147.0	1313.869	1307.143	1304.901	1302.658	1290.887
147.5	1322.277	1315.550	1313.308	1311.066	1299.295
148.0	1330.685	1323.958	1320.595	1318.914	1308.264
148.5	1339.092	1332.366	1327.882	1326.761	1317.232
149.0	1346.940	1340.774	1335.169	1334.608	1326.200
149.5	1354.787	1348.621	1341.895	1342.456	1334.608
150.0	1362.635	1356.469	1349.182	1349.742	1342.456
150.5	1370.482	1364.316	1355.908	1356.469	1350.303
151.0	1377.769	1371.603	1362.635	1363.195	1357.590
151.5	1385.616	1378.890	1369.921	1369.921	1364.316
152.0	1392.903	1386.177	1376.648	1376.087	1371.042
152.5	1400.190	1392.903	1383.374	1382.813	1377.208
153.0	1407.476	1399.629	1390.100	1389.540	1382.813
153.5	1414.203	1406.355	1396.826	1396.266	1387.858
154.0	1420.929	1413.082	1404.113	1402.992	1393.463
154.5	1428.216	1419.247	1410.840	1409.158	1399.069
155.0	1434.942	1425.413	1417.566	1415.884	1405.234
155.5	1441.108	1431.018	1424.292	1422.611	1411.400
156.0	1447.274	1437.184	1431.579	1428.776	1417.566
156.5	1453.439	1443.350	1438.305	1435.503	1423.732
157.0	1459.605	1449.516	1445.032	1442.229	1429.897
157.5	1465.210	1455.121	1451.197	1448.395	1436.063
158.0	1470.816	1460.726	1457.363	1454.561	1442.229
158.5	1476.981	1466.892	1463.529	1460.726	1448.955
159.0	1482.026	1472.497	1469.134	1466.892	1455.121
159.5	1487.631	1478.103	1474.739	1473.058	1461.287
160.0	1492.676	1483.147	1480.345	1478.663	1467.453
160.5	1497.721	1488.192	1485.389	1484.268	1473.618
161.0	1502.766	1493.237	1490.434	1489.874	1479.784
161.5	1507.810	1498.842	1494.918	1495.479	1485.950
162.0	1513.416	1503.887	1499.402	1501.084	1491.555
162.5	1518.460	1508.931	1503.887	1506.129	1496.600
163.0	1523.505	1513.976	1508.371	1511.173	1501.645
163.5	1528.550	1518.460	1512.855	1516.218	1506.129
164.0	1533.594	1522.944	1516.779	1520.702	1510.613
164.5	1537.518	1527.429	1520.702	1525.187	1515.097
165.0	1542.002	1531.913	1524.626	1529.671	1519.021
165.5	1546.486	1535.837	1528.550	1533.594	1522.944
166.0	1550.971	1539.760	1532.473	1537.518	1526.308
166.5	1555.455	1543.684	1536.397	1540.881	1530.231

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-F-F-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

167.0	1559.379	1547.047	1539.760	1544.244	1533.594
167.5	1563.302	1550.410	1543.684	1547.608	1537.518
168.0	1567.226	1553.773	1547.047	1550.971	1540.881
168.5	1571.150	1557.136	1550.410	1554.334	1544.805
169.0	1574.513	1559.939	1553.773	1557.136	1548.168
169.5	1577.315	1562.742	1556.576	1559.939	1551.531
170.0	1580.118	1565.544	1559.379	1562.742	1555.455
170.5	1582.921	1568.347	1561.621	1565.544	1558.257
171.0	1585.723	1570.589	1563.863	1568.347	1561.060
171.5	1587.965	1572.831	1566.105	1571.150	1563.863
172.0	1590.207	1575.073	1567.786	1573.392	1566.105
172.5	1592.449	1577.315	1569.468	1575.073	1567.786
173.0	1594.692	1579.557	1571.150	1577.315	1568.907
173.5	1596.373	1581.239	1572.831	1578.436	1570.029
174.0	1598.055	1582.921	1574.513	1579.557	1570.589
174.5	1599.176	1584.042	1575.634	1580.678	1571.150
175.0	1600.297	1585.723	1576.755	1581.239	1571.150
175.5	1601.418	1586.844	1578.436	1581.800	1571.710
176.0	1602.539	1587.965	1579.557	1581.800	1571.710
176.5	1603.099	1589.086	1580.118	1582.360	1571.710
177.0	1603.660	1590.207	1581.239	1582.360	1571.150
177.5	1604.781	1591.328	1582.360	1582.360	1571.150
178.0	1605.342	1591.328	1582.921	1582.360	1571.710
178.5	1605.342	1591.889	1583.481	1582.360	1571.710
179.0	1605.902	1592.449	1583.481	1582.360	1571.710
179.5	1606.463	1592.449	1584.042	1582.360	1571.710
180.0	1586.844	1586.844	1586.844	1586.844	1586.844

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-F-F-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	582.59	N.A.	7.10
0-30	1217.99	N.A.	14.90
0-40	1956.71	N.A.	24.00
0-60	3324.9	N.A.	40.70
0-80	4071.71	N.A.	49.90
0-90	4150.62	N.A.	50.80
10-90	3998.55	N.A.	49.00
20-40	1374.13	N.A.	16.80
20-50	2107.46	N.A.	25.80
40-70	1843.67	N.A.	22.60
60-80	746.81	N.A.	9.10
70-80	271.32	N.A.	3.30
80-90	78.91	N.A.	1.00
90-110	229.64	N.A.	2.80
90-120	589.52	N.A.	7.20
90-130	1194.26	N.A.	14.60
90-150	2777.77	N.A.	34.00
90-180	4014.61	N.A.	49.20
110-180	3784.96	N.A.	46.40
0-180	8165.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.07
10-20	430.52
20-30	635.40
30-40	738.73
40-50	733.34
50-60	634.85
60-70	475.49
70-80	271.32
80-90	78.91
90-100	49.53
100-110	180.11
110-120	359.87
120-130	604.75
130-140	790.76
140-150	792.74
150-160	654.84
160-170	431.51
170-180	150.48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-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-L8-830D-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	16.2	17.1	17.2	18.1	19.3	UGR Viewed Endwise			
	3H	18.0	18.8	19.0	19.8	21.0	16.1	17.0	17.1	18.0
	4H	18.6	19.4	19.6	20.3	21.6	17.9	18.7	18.9	19.7
	6H	19.0	19.7	20.0	20.7	22.0	18.5	19.3	19.5	20.3
	8H	19.2	19.8	20.2	20.8	22.1	19.0	19.7	20.0	20.7
	12H	19.3	19.9	20.3	20.9	22.2	19.1	19.8	20.1	20.8

4H	2H	16.8	17.5	17.7	18.5	19.8	19.2	19.9	20.2	20.9
	3H	18.7	19.4	19.7	20.4	21.7	16.7	17.4	17.7	18.4
	4H	19.5	20.0	20.5	21.0	22.4	18.7	19.3	19.7	20.3
	6H	20.0	20.5	21.0	21.5	22.9	19.4	20.0	20.4	21.0
	8H	20.2	20.7	21.2	21.7	23.0	20.0	20.5	21.0	21.5
	12H	20.3	20.7	21.3	21.8	23.1	20.2	20.7	21.2	21.7

8H	4H	19.7	20.2	20.7	21.2	22.5	20.3	20.8	21.4	21.8
	6H	20.4	20.8	21.4	21.8	23.2	16.7	17.4	17.7	18.4
	8H	20.7	21.0	21.7	22.0	23.4	18.7	19.3	19.7	20.3
	12H	20.9	21.2	21.9	22.2	23.6	19.4	20.0	20.4	21.0

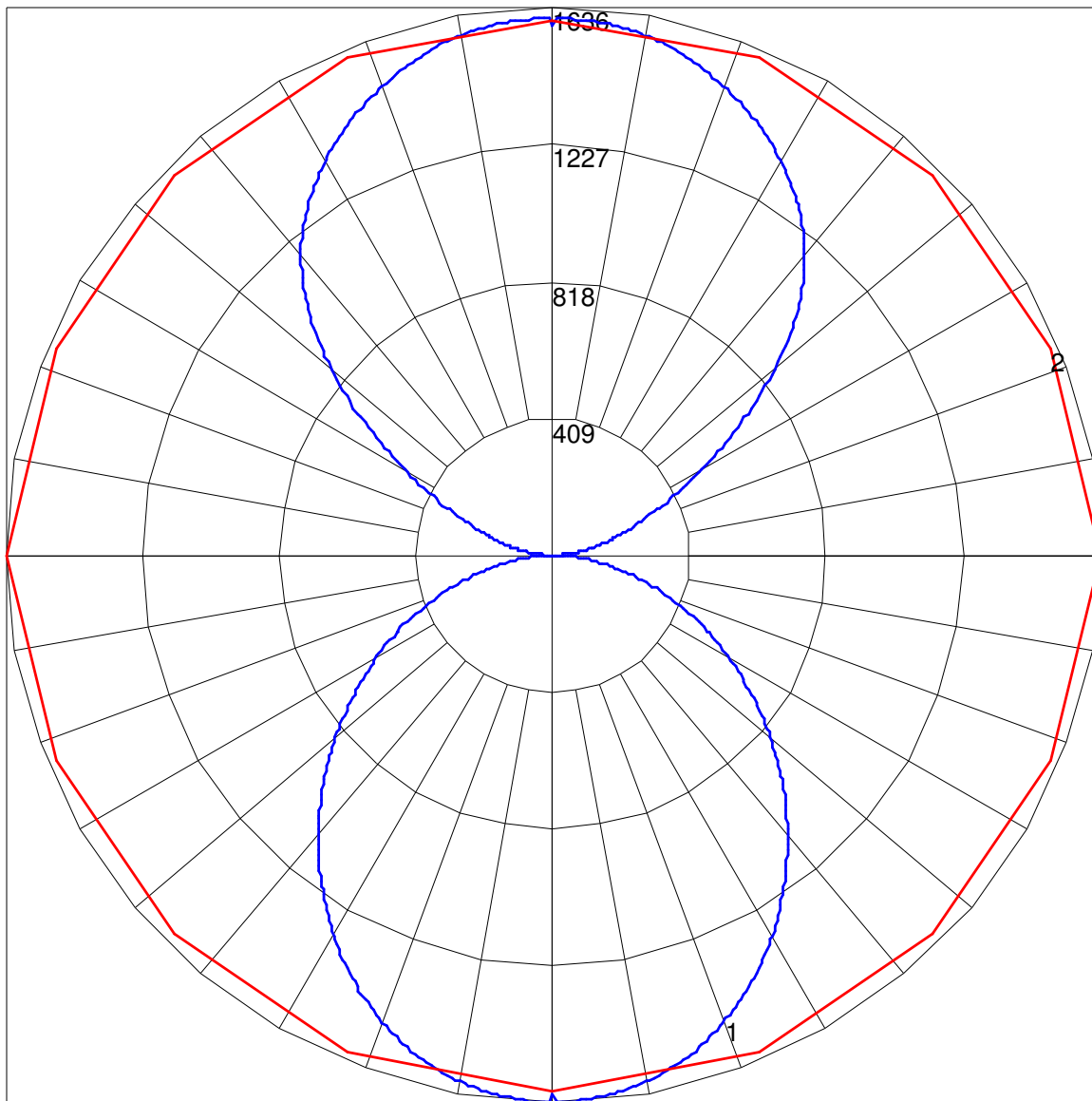
12H	4H	19.7	20.1	20.7	21.2	22.5	20.0	20.5	21.0	21.5
	6H	20.5	20.8	21.5	21.8	23.2	20.2	20.7	21.2	21.7
	8H	20.7	21.0	21.8	22.1	23.5	20.3	20.8	21.4	21.8

Maximum UGR = 23.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4UDC-4-00-L12-830U-L8-830D-F-F-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1636.34 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.)