

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709386

Luminaire Tested: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

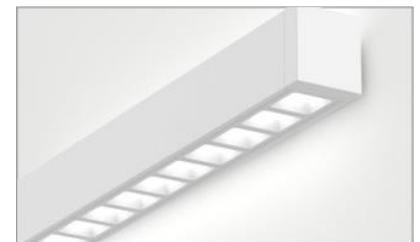
Test Information

Test Method: LM-79-2019
Report Number: P709386
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7106.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

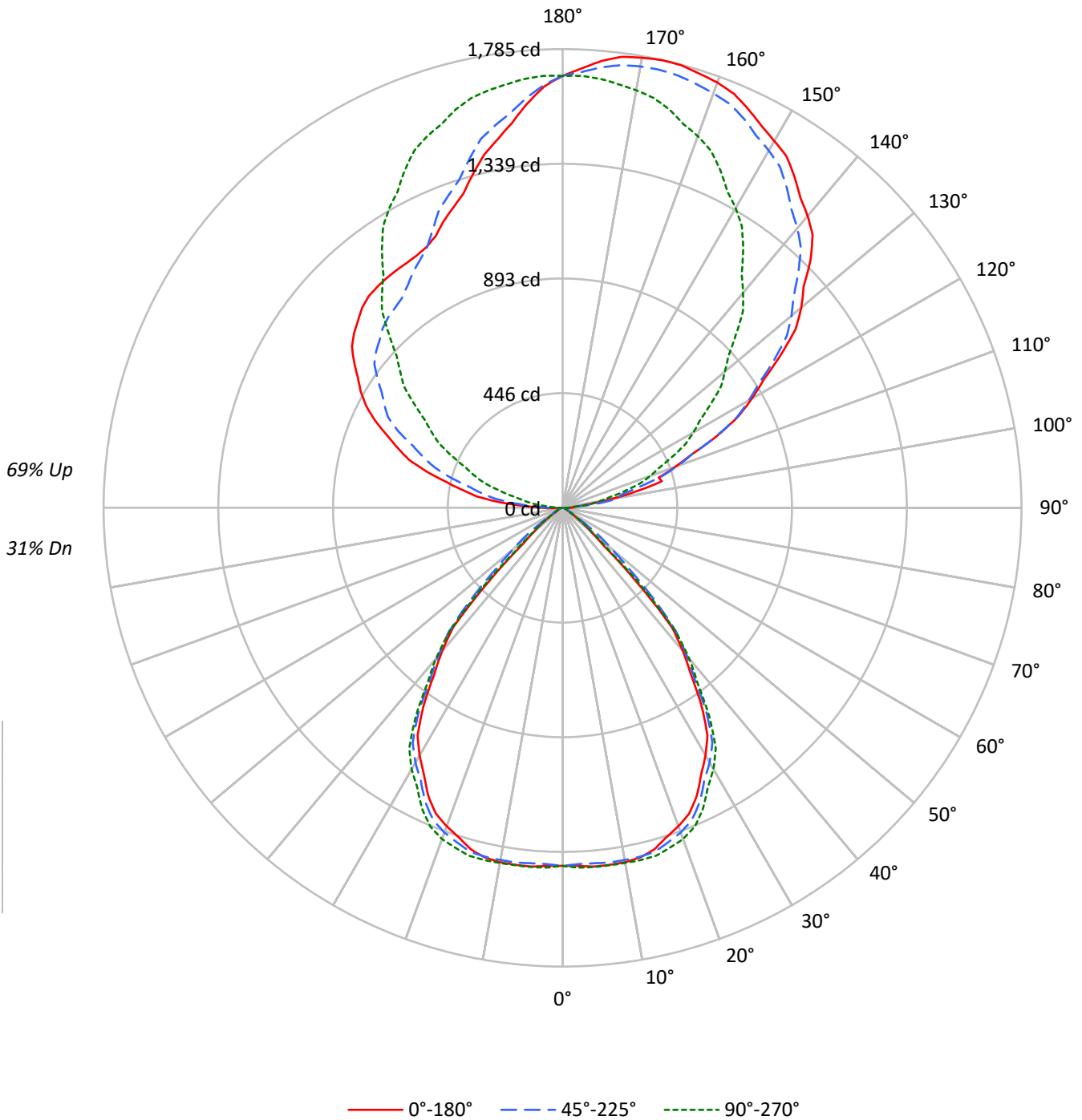
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	95	91	87	84	85	82	79	77	65	63	62	50	49	48	36	35	35	28
2	87	81	75	71	78	73	68	65	59	56	53	45	43	42	33	32	31	26
3	80	72	65	60	72	65	60	55	53	49	46	41	39	37	30	29	28	23
4	74	64	57	52	67	59	53	48	48	43	40	37	35	32	28	26	25	21
5	68	58	51	45	61	53	47	42	43	39	35	34	31	29	26	24	23	19
6	63	52	45	40	57	48	41	37	39	35	31	31	28	26	24	22	20	17
7	59	47	40	35	53	43	37	33	36	31	28	29	26	23	22	20	19	16
8	54	43	36	31	49	40	34	29	33	28	25	26	23	21	20	18	17	15
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	19	17	16	13
10	47	36	30	25	43	33	28	24	28	24	21	23	20	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22491	22491	22491	22491	22491
5°	22707	22503	22739	22503	22707
10°	22953	22810	23002	22810	22953
15°	23000	23156	23435	23156	23000
20°	22646	23097	23557	23097	22646
25°	22019	22502	23017	22502	22019
30°	20732	21333	21888	21333	20732
35°	18607	19295	19671	19295	18607
40°	15365	15823	16166	15823	15365
45°	9225	11424	10229	11424	9225
50°	3642	6300	3969	6300	3642
55°	1942	2859	1914	2859	1942
60°	840	1426	904	1426	840
65°	764	867	802	867	764
70°	755	807	803	807	755
75°	686	805	749	805	686
80°	651	744	744	744	651
85°	556	741	741	741	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 11501 cd/sqm

TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.9
10°-20°	391.4	5.5
20°-30°	579.5	8.2
30°-40°	600.3	8.4
40°-50°	360.8	5.1
50°-60°	86.2	1.2
60°-70°	23.5	0.3
70°-80°	13.1	0.2
80°-90°	11.2	0.2
90°-100°	133.4	1.9
100°-110°	389.5	5.5
110°-120°	636.1	9.0
120°-130°	808.0	11.4
130°-140°	864.6	12.2
140°-150°	807.3	11.4
150°-160°	664.4	9.3
160°-170°	445.7	6.3
170°-180°	158.2	2.2
0°-30°	1104.3	15.5
0°-40°	1704.6	24.0
0°-60°	2151.6	30.3
0°-90°	2199.4	30.9
90°-120°	1159.1	16.3
90°-150°	3638.9	51.2
90°-180°	4907.0	69.0
0°-180°	7106.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1393	1393	1393	1393	1393	
5°	1401	1388	1403	1388	1401	134
15°	1376	1385	1402	1385	1376	387
25°	1236	1263	1292	1263	1236	565
35°	944	979	998	979	944	582
45°	404	500	448	500	404	318
55°	69	102	68	102	69	67
65°	20	23	21	23	20	20
75°	11	13	12	13	11	12
85°	3	4	4	4	3	4
90°	36	32	6	46	80	17
95°	39	49	52	172	238	66
105°	400	296	248	446	548	371
115°	664	659	471	704	805	651
125°	1034	1006	703	880	990	924
135°	1364	1296	954	989	1102	1047
145°	1573	1520	1225	1052	1128	984
155°	1711	1670	1451	1194	1167	789
165°	1783	1741	1605	1403	1345	503
175°	1746	1720	1676	1602	1579	168
180°	1681	1681	1681	1681	1681	

TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1394.6	1396.0	1397.4	1393.5	1387.8	1387.5	1392.5	1396.7	1398.9	1401.0	1398.9
5°	1401.0	1401.9	1402.8	1397.0	1389.0	1387.9	1393.7	1398.6	1400.8	1403.0	1400.8
7.5°	1400.8	1402.1	1403.5	1398.8	1392.1	1391.2	1396.1	1400.2	1401.6	1403.0	1401.6
10°	1400.0	1401.3	1402.7	1398.0	1391.3	1391.3	1398.0	1403.0	1403.0	1403.0	1403.0
12.5°	1393.6	1395.6	1397.7	1394.5	1389.6	1391.8	1400.9	1407.4	1405.6	1403.8	1405.6
15°	1376.0	1379.1	1382.2	1382.7	1382.2	1388.4	1401.3	1410.0	1406.0	1402.0	1406.0
17.5°	1343.6	1347.9	1352.1	1355.8	1359.3	1369.9	1387.7	1399.4	1393.2	1387.0	1393.2
20°	1318.0	1321.6	1325.1	1331.0	1337.7	1350.8	1370.3	1383.4	1377.2	1371.0	1377.2
22.5°	1287.6	1291.5	1295.4	1301.1	1307.4	1321.1	1342.1	1356.2	1349.6	1343.0	1349.6
25°	1236.0	1239.6	1243.1	1249.3	1256.4	1269.8	1289.3	1302.7	1297.3	1292.0	1297.3
27.5°	1168.0	1171.9	1175.8	1181.8	1188.5	1200.2	1217.1	1229.2	1226.8	1224.4	1226.8
30°	1112.0	1117.3	1122.7	1130.3	1138.8	1149.7	1163.0	1173.1	1173.6	1174.0	1173.6
32.5°	1048.8	1055.9	1063.0	1070.9	1079.0	1089.1	1101.4	1110.4	1109.8	1109.2	1109.8
35°	944.0	951.6	959.1	967.0	975.0	982.8	990.3	996.2	997.1	998.0	997.1
37.5°	822.6	825.5	828.5	835.7	844.3	852.6	860.7	866.6	866.0	865.4	866.0
40°	729.0	729.4	729.9	737.0	746.3	755.2	763.7	769.7	768.3	767.0	768.3
42.5°	629.0	630.9	632.7	640.5	650.2	658.2	664.5	666.7	656.9	647.0	656.9
45°	404.0	436.9	469.8	486.3	497.4	503.2	503.7	497.8	472.9	448.0	472.9
47.5°	211.4	243.8	276.3	309.1	342.1	349.8	332.3	311.4	280.3	249.2	280.3
50°	145.0	156.1	167.2	203.0	247.0	254.6	225.7	198.9	178.4	158.0	178.4
52.5°	105.8	112.6	119.5	147.3	182.0	185.1	156.6	132.7	122.5	112.4	122.5
55°	69.0	70.8	72.6	85.0	101.0	102.1	88.3	76.9	72.4	68.0	72.4
57.5°	41.2	44.9	48.7	54.3	60.6	60.8	54.9	49.4	45.5	41.6	45.5
60°	26.0	28.7	31.3	37.0	43.7	44.6	39.7	35.1	31.6	28.0	31.6
62.5°	23.6	24.5	25.4	29.3	34.2	34.5	30.3	26.9	25.9	24.8	25.9
65°	20.0	20.4	20.9	21.7	22.6	22.8	22.3	21.9	21.4	21.0	21.4
67.5°	17.6	18.0	18.5	18.9	19.2	19.4	19.5	19.5	19.0	18.6	19.0
70°	16.0	16.4	16.9	17.0	17.0	17.2	17.7	17.9	17.4	17.0	17.4
72.5°	14.4	14.5	14.6	14.9	15.2	15.4	15.5	15.6	15.5	15.4	15.5
75°	11.0	11.4	11.9	12.3	12.8	13.0	13.0	12.9	12.4	12.0	12.4
77.5°	8.6	9.0	9.5	9.6	9.6	9.8	10.1	10.3	10.0	9.6	10.0
80°	7.0	7.4	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.8	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.0	3.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	8.0	8.0	7.8	8.1	7.8	8.0	7.4	5.8	4.2	2.8	4.0
90°	36.0	36.0	35.0	35.0	32.0	32.0	29.0	21.0	13.0	6.0	12.0
92.5°	43.2	43.2	42.2	41.4	39.2	36.0	29.8	29.8	28.2	18.0	32.8
95°	39.0	39.0	38.0	39.0	43.0	55.0	80.0	88.0	60.0	52.0	75.0
97.5°	91.2	94.0	103.6	121.2	152.6	158.2	150.4	112.0	108.6	104.6	137.2
100°	180.0	186.0	198.0	214.0	251.0	199.0	156.0	156.0	147.0	143.0	178.0
102.5°	289.6	292.4	305.2	306.8	245.4	217.4	206.4	202.4	185.4	183.0	224.4
105°	400.0	379.0	333.0	299.0	296.0	296.0	295.0	277.0	253.0	248.0	291.0
107.5°	392.4	387.0	389.6	393.2	397.8	401.4	391.0	361.2	321.8	315.8	356.8
110°	466.0	459.0	464.0	470.0	473.0	475.0	455.0	414.0	373.0	363.0	400.0

TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	541.2	538.2	538.4	546.8	546.6	546.2	520.6	470.8	421.8	405.4	440.8
115°	664.0	659.0	651.0	661.0	663.0	655.0	620.0	562.0	501.0	471.0	505.0
117.5°	770.0	768.4	770.8	774.8	772.0	759.6	714.6	649.0	581.4	540.6	564.6
120°	850.0	846.0	850.0	854.0	848.0	826.0	781.0	713.0	635.0	587.0	603.0
122.5°	926.8	926.0	925.2	920.4	920.8	895.6	843.4	772.2	691.8	633.4	639.0
125°	1034.0	1038.0	1033.0	1027.0	1020.0	992.0	937.0	864.0	773.0	703.0	696.0
127.5°	1142.4	1143.0	1133.2	1127.4	1115.4	1083.0	1027.4	955.6	857.2	777.6	752.6
130°	1212.0	1211.0	1202.0	1193.0	1177.0	1147.0	1089.0	1014.0	918.0	824.0	791.0
132.5°	1271.2	1272.6	1262.0	1254.6	1234.6	1203.0	1149.8	1075.6	973.2	875.2	832.6
135°	1364.0	1366.0	1353.0	1336.0	1313.0	1280.0	1235.0	1164.0	1062.0	954.0	898.0
137.5°	1439.8	1438.4	1425.6	1410.2	1389.8	1354.4	1313.0	1242.8	1147.0	1039.2	960.6
140°	1483.0	1484.0	1472.0	1455.0	1437.0	1404.0	1361.0	1294.0	1199.0	1092.0	1011.0
142.5°	1519.8	1521.6	1512.8	1498.2	1477.0	1448.0	1409.8	1344.4	1251.0	1144.8	1057.4
145°	1573.0	1577.0	1569.0	1556.0	1536.0	1505.0	1473.0	1409.0	1323.0	1225.0	1130.0
147.5°	1621.6	1623.8	1617.4	1608.6	1588.2	1558.6	1529.0	1470.0	1389.2	1298.2	1201.8
150°	1648.0	1655.0	1647.0	1639.0	1621.0	1589.0	1565.0	1506.0	1434.0	1347.0	1253.0
152.5°	1676.0	1682.2	1674.2	1665.4	1647.4	1617.0	1594.6	1536.4	1470.0	1388.6	1301.8
155°	1711.0	1719.0	1713.0	1703.0	1685.0	1656.0	1634.0	1581.0	1521.0	1451.0	1370.0
157.5°	1743.4	1749.2	1744.0	1734.8	1712.6	1689.0	1666.0	1620.4	1566.4	1505.4	1434.8
160°	1761.0	1766.0	1760.0	1750.0	1727.0	1705.0	1686.0	1642.0	1592.0	1539.0	1474.0
162.5°	1771.4	1778.8	1772.8	1762.0	1739.0	1719.4	1701.2	1660.4	1615.2	1565.4	1509.2
165°	1783.0	1792.0	1785.0	1774.0	1749.0	1733.0	1719.0	1683.0	1644.0	1605.0	1557.0
167.5°	1784.6	1792.8	1786.4	1777.2	1752.4	1738.8	1727.8	1697.8	1664.8	1634.0	1594.2
170°	1779.0	1788.0	1784.0	1774.0	1750.0	1738.0	1731.0	1705.0	1676.0	1650.0	1619.0
172.5°	1770.2	1778.4	1773.6	1766.0	1742.0	1733.2	1728.6	1706.6	1683.2	1662.8	1639.0
175°	1746.0	1755.0	1750.0	1745.0	1723.0	1718.0	1719.0	1706.0	1690.0	1676.0	1661.0
177.5°	1711.4	1717.8	1713.8	1711.4	1697.8	1697.0	1701.8	1695.4	1688.2	1682.6	1676.2
180°	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0

TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1396.7	1392.5	1387.5	1387.8	1393.5	1397.4	1396.0	1394.6
5°	1398.6	1393.7	1387.9	1389.0	1397.0	1402.8	1401.9	1401.0
7.5°	1400.2	1396.1	1391.2	1392.1	1398.8	1403.5	1402.1	1400.8
10°	1403.0	1398.0	1391.3	1391.3	1398.0	1402.7	1401.3	1400.0
12.5°	1407.4	1400.9	1391.8	1389.6	1394.5	1397.7	1395.6	1393.6
15°	1410.0	1401.3	1388.4	1382.2	1382.7	1382.2	1379.1	1376.0
17.5°	1399.4	1387.7	1369.9	1359.3	1355.8	1352.1	1347.9	1343.6
20°	1383.4	1370.3	1350.8	1337.7	1331.0	1325.1	1321.6	1318.0
22.5°	1356.2	1342.1	1321.1	1307.4	1301.1	1295.4	1291.5	1287.6
25°	1302.7	1289.3	1269.8	1256.4	1249.3	1243.1	1239.6	1236.0
27.5°	1229.2	1217.1	1200.2	1188.5	1181.8	1175.8	1171.9	1168.0
30°	1173.1	1163.0	1149.7	1138.8	1130.3	1122.7	1117.3	1112.0
32.5°	1110.4	1101.4	1089.1	1079.0	1070.9	1063.0	1055.9	1048.8
35°	996.2	990.3	982.8	975.0	967.0	959.1	951.6	944.0
37.5°	866.6	860.7	852.6	844.3	835.7	828.5	825.5	822.6
40°	769.7	763.7	755.2	746.3	737.0	729.9	729.4	729.0
42.5°	666.7	664.5	658.2	650.2	640.5	632.7	630.9	629.0
45°	497.8	503.7	503.2	497.4	486.3	469.8	436.9	404.0
47.5°	311.4	332.3	349.8	342.1	309.1	276.3	243.8	211.4
50°	198.9	225.7	254.6	247.0	203.0	167.2	156.1	145.0
52.5°	132.7	156.6	185.1	182.0	147.3	119.5	112.6	105.8
55°	76.9	88.3	102.1	101.0	85.0	72.6	70.8	69.0
57.5°	49.4	54.9	60.8	60.6	54.3	48.7	44.9	41.2
60°	35.1	39.7	44.6	43.7	37.0	31.3	28.7	26.0
62.5°	26.9	30.3	34.5	34.2	29.3	25.4	24.5	23.6
65°	21.9	22.3	22.8	22.6	21.7	20.9	20.4	20.0
67.5°	19.5	19.5	19.4	19.2	18.9	18.5	18.0	17.6
70°	17.9	17.7	17.2	17.0	17.0	16.9	16.4	16.0
72.5°	15.6	15.5	15.4	15.2	14.9	14.6	14.5	14.4
75°	12.9	13.0	13.0	12.8	12.3	11.9	11.4	11.0
77.5°	10.3	10.1	9.8	9.6	9.6	9.5	9.0	8.6
80°	8.0	8.0	8.0	8.0	8.0	7.9	7.4	7.0
82.5°	6.4	6.4	6.4	6.4	6.4	6.3	5.8	5.4
85°	4.0	4.0	4.0	4.0	4.0	3.9	3.4	3.0
87.5°	5.4	7.4	9.6	11.8	13.7	14.6	16.0	16.8
90°	19.0	29.0	40.0	52.0	63.0	69.0	76.0	80.0
92.5°	46.2	61.8	80.8	99.2	115.0	124.2	130.4	132.0
95°	109.0	131.0	157.0	187.0	204.0	222.0	235.0	238.0
97.5°	168.2	207.6	243.8	270.6	297.4	317.0	329.4	333.4
100°	213.0	254.0	299.0	329.0	359.0	377.0	395.0	391.0
102.5°	264.2	302.8	348.6	384.2	419.8	441.8	455.0	461.4
105°	338.0	383.0	422.0	469.0	499.0	525.0	544.0	548.0
107.5°	407.2	458.8	498.0	542.6	578.4	601.4	621.0	627.6
110°	456.0	510.0	558.0	593.0	628.0	655.0	673.0	682.0

TEST NUMBER: P709386

CATALOG NUMBER: DL2W-WB-M-125U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	500.0	554.8	609.2	649.0	686.4	711.0	729.0	738.8
115°	563.0	622.0	675.0	734.0	766.0	787.0	800.0	805.0
117.5°	620.8	680.8	738.0	792.4	831.0	845.0	855.2	861.2
120°	656.0	716.0	774.0	826.0	867.0	889.0	900.0	906.0
122.5°	688.8	749.6	806.8	858.8	899.8	925.0	939.2	943.6
125°	738.0	799.0	856.0	903.0	944.0	972.0	988.0	990.0
127.5°	783.0	835.8	897.8	947.2	985.8	1011.8	1026.4	1032.4
130°	811.0	859.0	921.0	972.0	1009.0	1039.0	1052.0	1058.0
132.5°	839.8	880.6	938.6	992.0	1032.2	1059.0	1072.8	1078.8
135°	887.0	911.0	962.0	1016.0	1056.0	1083.0	1097.0	1102.0
137.5°	939.8	945.6	979.2	1029.8	1072.4	1098.6	1110.0	1116.4
140°	975.0	972.0	992.0	1037.0	1078.0	1105.0	1118.0	1122.0
142.5°	1012.6	1000.8	1010.4	1044.2	1082.0	1107.4	1121.2	1125.2
145°	1072.0	1048.0	1043.0	1062.0	1087.0	1111.0	1124.0	1128.0
147.5°	1137.0	1104.8	1081.6	1087.6	1100.4	1116.2	1128.4	1129.2
150°	1181.0	1144.0	1112.0	1110.0	1114.0	1125.0	1134.0	1134.0
152.5°	1228.2	1182.4	1145.6	1137.2	1134.0	1139.4	1145.2	1144.4
155°	1299.0	1249.0	1203.0	1184.0	1176.0	1170.0	1170.0	1167.0
157.5°	1367.4	1314.4	1266.6	1243.2	1227.6	1219.0	1213.8	1207.8
160°	1413.0	1360.0	1305.0	1284.0	1266.0	1255.0	1249.0	1243.0
162.5°	1453.8	1404.8	1353.0	1322.4	1306.8	1296.6	1289.8	1282.2
165°	1511.0	1468.0	1419.0	1387.0	1371.0	1358.0	1352.0	1345.0
167.5°	1560.4	1526.2	1484.6	1454.0	1442.6	1425.6	1420.8	1407.2
170°	1590.0	1563.0	1523.0	1498.0	1489.0	1476.0	1468.0	1456.0
172.5°	1615.6	1593.4	1561.4	1538.8	1537.8	1523.2	1516.8	1509.6
175°	1649.0	1635.0	1610.0	1593.0	1599.0	1592.0	1591.0	1579.0
177.5°	1670.6	1667.4	1651.4	1644.2	1649.0	1649.8	1649.8	1641.0
180°	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0

(END OF REPORT)