

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: P709388

Luminaire Tested: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709388
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7866.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

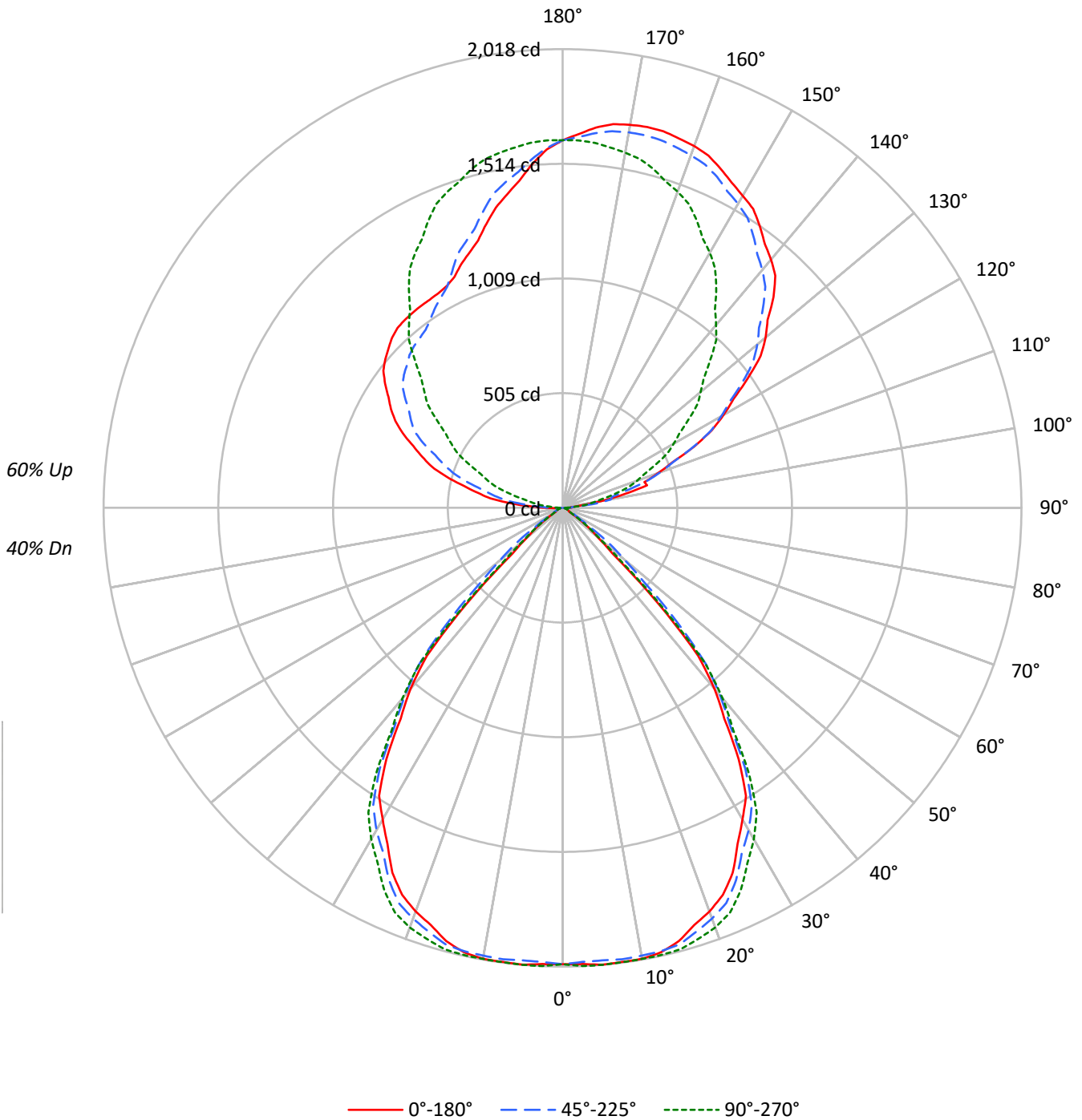
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



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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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	97	93	90	87	88	85	82	80	70	68	67	56	55	54	44	43	42	36
2	89	83	78	73	82	76	72	68	63	60	58	51	49	48	40	39	38	33
3	83	74	68	63	75	68	63	59	57	53	50	47	44	42	37	36	34	30
4	76	67	60	55	70	62	56	51	52	48	44	43	40	37	34	32	31	27
5	71	60	53	48	65	56	50	45	47	43	39	39	36	33	32	30	28	25
6	66	55	48	42	60	51	44	40	43	38	35	36	33	30	29	27	25	22
7	61	50	43	38	56	46	40	36	39	35	31	33	30	27	27	25	23	20
8	57	46	39	34	52	42	36	32	36	32	28	31	27	25	25	23	21	19
9	53	42	35	30	49	39	33	29	34	29	26	28	25	23	24	21	19	17
10	50	39	32	28	46	36	30	26	31	26	23	26	23	21	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32411	32411	32411	32411	32411
5°	32692	32383	32707	32383	32692
10°	33023	32798	33037	32798	33023
15°	32991	33230	33588	33230	32991
20°	32459	33032	33747	33032	32459
25°	31545	32177	33054	32177	31545
30°	29496	30512	31362	30512	29496
35°	26613	27609	28206	27609	26613
40°	21905	22736	23123	22736	21905
45°	13579	16373	14458	16373	13579
50°	5172	8961	5657	8961	5172
55°	2764	4156	2790	4156	2764
60°	1182	2020	1305	2020	1182
65°	1104	1238	1177	1238	1104
70°	1090	1175	1138	1175	1090
75°	1023	1135	1142	1135	1023
80°	986	1083	1069	1083	986
85°	889	908	1074	908	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 16459 cd/sqm

TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	2.4
10°-20°	561.2	7.1
20°-30°	829.8	10.5
30°-40°	858.6	10.9
40°-50°	516.4	6.6
50°-60°	123.5	1.6
60°-70°	33.8	0.4
70°-80°	18.9	0.2
80°-90°	12.7	0.2
90°-100°	128.3	1.6
100°-110°	374.6	4.8
110°-120°	611.8	7.8
120°-130°	777.1	9.9
130°-140°	831.5	10.6
140°-150°	776.5	9.9
150°-160°	639.0	8.1
160°-170°	428.7	5.4
170°-180°	152.2	1.9
0°-30°	1583.0	20.1
0°-40°	2441.5	31.0
0°-60°	3081.4	39.2
0°-90°	3146.8	40.0
90°-120°	1114.8	14.2
90°-150°	3499.9	44.5
90°-180°	4720.0	60.0
0°-180°	7866.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2007	2007	2007	2007	2007	
5°	2017	1998	2018	1998	2017	192
15°	1974	1988	2009	1988	1974	554
25°	1771	1806	1855	1806	1771	807
35°	1350	1401	1431	1401	1350	830
45°	595	717	633	717	595	454
55°	98	148	99	148	98	95
65°	29	32	31	32	29	29
75°	16	18	18	18	16	17
85°	5	5	6	5	5	6
90°	35	31	6	44	77	16
95°	38	47	50	165	229	63
105°	385	285	238	428	527	356
115°	639	634	453	678	774	626
125°	994	968	676	846	952	889
135°	1312	1247	918	951	1060	1007
145°	1513	1462	1178	1012	1085	946
155°	1646	1607	1396	1148	1122	759
165°	1715	1674	1544	1349	1294	484
175°	1679	1655	1612	1540	1519	161
180°	1617	1617	1617	1617	1617	

TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2009.0	2010.7	2012.4	2007.2	1999.6	1999.5	2006.7	2012.6	2015.0	2017.4	2015.0
5°	2017.1	2018.3	2019.6	2011.0	1999.0	1997.1	2005.2	2012.0	2015.0	2018.0	2015.0
7.5°	2014.9	2016.9	2018.9	2012.6	2003.5	2002.1	2008.3	2013.3	2014.6	2015.9	2014.6
10°	2014.2	2015.5	2016.7	2010.0	2000.6	2000.4	2009.4	2016.0	2015.6	2015.1	2015.6
12.5°	2002.6	2005.6	2008.6	2003.8	1996.5	1999.3	2012.4	2021.4	2017.9	2014.4	2017.9
15°	1973.7	1978.0	1982.3	1983.4	1983.4	1992.6	2011.0	2023.0	2016.2	2009.4	2016.2
17.5°	1924.5	1929.7	1934.9	1941.2	1947.7	1963.3	1987.9	2004.2	1996.1	1988.0	1996.1
20°	1889.1	1891.2	1893.3	1901.9	1912.6	1932.3	1960.9	1980.4	1972.3	1964.1	1972.3
22.5°	1842.9	1846.4	1849.9	1859.6	1871.3	1892.5	1923.2	1944.0	1935.2	1926.4	1935.2
25°	1770.7	1775.4	1780.1	1787.7	1796.3	1816.1	1847.4	1869.1	1862.2	1855.4	1862.2
27.5°	1666.8	1673.3	1679.8	1688.7	1698.5	1718.0	1747.2	1768.2	1764.5	1760.7	1764.5
30°	1582.1	1592.3	1602.6	1614.8	1627.6	1645.6	1668.7	1685.6	1683.9	1682.2	1683.9
32.5°	1501.2	1509.5	1517.7	1528.8	1541.0	1557.2	1577.6	1592.4	1590.7	1589.0	1590.7
35°	1350.2	1358.7	1367.3	1380.0	1394.1	1407.4	1419.8	1429.3	1430.1	1431.0	1430.1
37.5°	1169.4	1178.1	1186.7	1197.2	1208.3	1218.8	1228.6	1235.7	1234.5	1233.3	1234.5
40°	1039.3	1041.5	1043.6	1056.3	1072.6	1084.8	1092.9	1098.8	1097.9	1097.1	1097.9
42.5°	883.8	893.8	903.8	915.7	928.2	940.0	951.2	956.4	943.6	930.8	943.6
45°	594.7	635.8	676.8	698.3	713.3	720.8	720.8	711.1	672.1	633.2	672.1
47.5°	299.1	349.0	398.8	444.7	489.1	499.4	475.3	446.2	401.9	357.6	401.9
50°	205.9	222.6	239.3	289.7	351.3	362.2	322.4	285.1	255.1	225.2	255.1
52.5°	151.3	160.1	168.9	210.1	262.1	267.2	225.4	190.2	175.0	159.7	175.0
55°	98.2	101.6	105.0	123.5	147.0	148.3	127.3	110.2	104.7	99.1	104.7
57.5°	59.7	65.1	70.4	77.9	86.2	86.2	77.9	70.4	64.6	58.9	64.6
60°	36.6	41.3	46.0	53.6	62.1	63.0	56.1	49.8	45.1	40.4	45.1
62.5°	33.5	35.1	36.7	42.3	49.1	49.6	43.8	39.0	37.0	35.0	37.0
65°	28.9	29.7	30.6	31.4	32.3	32.5	32.1	31.7	31.2	30.8	31.2
67.5°	25.4	26.2	26.9	27.2	27.3	27.5	27.8	28.0	27.6	27.1	27.6
70°	23.1	23.5	24.0	24.4	24.8	25.0	25.0	24.9	24.5	24.1	24.5
72.5°	20.0	20.8	21.6	21.8	21.9	22.1	22.5	22.6	22.2	21.7	22.2
75°	16.4	16.8	17.2	17.6	18.1	18.3	18.3	18.3	18.3	18.3	18.3
77.5°	12.9	13.3	13.8	13.9	13.9	14.1	14.5	14.7	14.3	13.9	14.3
80°	10.6	11.0	11.4	11.5	11.5	11.8	12.2	12.4	12.0	11.5	12.0
82.5°	8.3	8.7	9.1	9.2	9.2	9.3	9.4	9.4	9.3	9.2	9.3
85°	4.8	4.8	4.8	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.8
87.5°	8.5	8.5	8.3	8.3	7.7	7.9	7.6	6.3	4.4	2.7	4.2
90°	34.6	34.6	33.7	33.7	30.8	30.8	27.9	20.2	12.5	5.8	11.5
92.5°	41.5	41.5	40.6	39.8	37.7	34.6	28.7	28.7	27.1	17.3	31.5
95°	37.5	37.5	36.5	37.5	41.4	52.9	76.9	84.6	57.7	50.0	72.1
97.5°	87.7	90.4	99.6	116.6	146.8	152.2	144.7	107.7	104.5	100.6	132.0
100°	173.1	178.9	190.4	205.8	241.4	191.4	150.0	150.0	141.4	137.5	171.2
102.5°	278.5	281.2	293.5	295.1	236.0	209.1	198.5	194.7	178.3	176.0	215.8
105°	384.7	364.5	320.3	287.6	284.7	284.7	283.7	266.4	243.3	238.5	279.9
107.5°	377.4	372.2	374.7	378.2	382.6	386.1	376.1	347.4	309.5	303.7	343.2
110°	448.2	441.5	446.3	452.0	454.9	456.9	437.6	398.2	358.8	349.1	384.7

TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	520.5	517.6	517.8	525.9	525.7	525.3	500.7	452.8	405.7	389.9	424.0
115°	638.6	633.8	626.1	635.7	637.7	630.0	596.3	540.5	481.9	453.0	485.7
117.5°	740.6	739.0	741.4	745.2	742.5	730.6	687.3	624.2	559.2	519.9	543.0
120°	817.5	813.7	817.5	821.4	815.6	794.4	751.2	685.8	610.7	564.6	580.0
122.5°	891.4	890.6	889.9	885.2	885.6	861.4	811.2	742.7	665.4	609.2	614.6
125°	994.5	998.3	993.5	987.8	981.0	954.1	901.2	831.0	743.5	676.1	669.4
127.5°	1098.8	1099.3	1089.9	1084.3	1072.8	1041.6	988.2	919.1	824.5	747.9	723.8
130°	1165.7	1164.7	1156.1	1147.4	1132.0	1103.2	1047.4	975.3	882.9	792.5	760.8
132.5°	1222.6	1224.0	1213.8	1206.7	1187.4	1157.0	1105.9	1034.5	936.0	841.8	800.8
135°	1311.9	1313.8	1301.3	1285.0	1262.8	1231.1	1187.8	1119.5	1021.4	917.6	863.7
137.5°	1384.8	1383.5	1371.1	1356.3	1336.7	1302.7	1262.8	1195.3	1103.2	999.5	923.9
140°	1426.3	1427.3	1415.8	1399.4	1382.1	1350.4	1309.0	1244.6	1153.2	1050.3	972.4
142.5°	1461.7	1463.5	1455.0	1441.0	1420.6	1392.7	1355.9	1293.0	1203.2	1101.1	1017.0
145°	1512.9	1516.8	1509.1	1496.6	1477.3	1447.5	1416.7	1355.2	1272.5	1178.2	1086.8
147.5°	1559.7	1561.8	1555.6	1547.1	1527.5	1499.1	1470.6	1413.8	1336.1	1248.6	1155.9
150°	1585.0	1591.8	1584.1	1576.4	1559.1	1528.3	1505.2	1448.5	1379.2	1295.5	1205.1
152.5°	1612.0	1617.9	1610.2	1601.8	1584.5	1555.2	1533.7	1477.7	1413.8	1335.6	1252.1
155°	1645.6	1653.3	1647.6	1637.9	1620.6	1592.7	1571.6	1520.6	1462.9	1395.6	1317.7
157.5°	1676.8	1682.4	1677.4	1668.5	1647.2	1624.5	1602.4	1558.5	1506.6	1447.9	1380.0
160°	1693.7	1698.5	1692.8	1683.1	1661.0	1639.9	1621.6	1579.3	1531.2	1480.2	1417.7
162.5°	1703.7	1710.8	1705.1	1694.7	1672.6	1653.7	1636.2	1597.0	1553.5	1505.6	1451.5
165°	1714.9	1723.5	1716.8	1706.2	1682.2	1666.8	1653.3	1618.7	1581.2	1543.7	1497.5
167.5°	1716.4	1724.3	1718.2	1709.3	1685.5	1672.4	1661.8	1632.9	1601.2	1571.6	1533.3
170°	1711.0	1719.7	1715.8	1706.2	1683.1	1671.6	1664.9	1639.9	1612.0	1587.0	1557.2
172.5°	1702.6	1710.5	1705.8	1698.5	1675.5	1667.0	1662.6	1641.4	1618.9	1599.3	1576.4
175°	1679.3	1688.0	1683.1	1678.3	1657.2	1652.4	1653.3	1640.8	1625.4	1612.0	1597.5
177.5°	1646.0	1652.2	1648.3	1646.0	1632.9	1632.2	1636.8	1630.6	1623.7	1618.3	1612.2
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2012.6	2006.7	1999.5	1999.6	2007.2	2012.4	2010.7	2009.0
5°	2012.0	2005.2	1997.1	1999.0	2011.0	2019.6	2018.3	2017.1
7.5°	2013.3	2008.3	2002.1	2003.5	2012.6	2018.9	2016.9	2014.9
10°	2016.0	2009.4	2000.4	2000.6	2010.0	2016.7	2015.5	2014.2
12.5°	2021.4	2012.4	1999.3	1996.5	2003.8	2008.6	2005.6	2002.6
15°	2023.0	2011.0	1992.6	1983.4	1983.4	1982.3	1978.0	1973.7
17.5°	2004.2	1987.9	1963.3	1947.7	1941.2	1934.9	1929.7	1924.5
20°	1980.4	1960.9	1932.3	1912.6	1901.9	1893.3	1891.2	1889.1
22.5°	1944.0	1923.2	1892.5	1871.3	1859.6	1849.9	1846.4	1842.9
25°	1869.1	1847.4	1816.1	1796.3	1787.7	1780.1	1775.4	1770.7
27.5°	1768.2	1747.2	1718.0	1698.5	1688.7	1679.8	1673.3	1666.8
30°	1685.6	1668.7	1645.6	1627.6	1614.8	1602.6	1592.3	1582.1
32.5°	1592.4	1577.6	1557.2	1541.0	1528.8	1517.7	1509.5	1501.2
35°	1429.3	1419.8	1407.4	1394.1	1380.0	1367.3	1358.7	1350.2
37.5°	1235.7	1228.6	1218.8	1208.3	1197.2	1186.7	1178.1	1169.4
40°	1098.8	1092.9	1084.8	1072.6	1056.3	1043.6	1041.5	1039.3
42.5°	956.4	951.2	940.0	928.2	915.7	903.8	893.8	883.8
45°	711.1	720.8	720.8	713.3	698.3	676.8	635.8	594.7
47.5°	446.2	475.3	499.4	489.1	444.7	398.8	349.0	299.1
50°	285.1	322.4	362.2	351.3	289.7	239.3	222.6	205.9
52.5°	190.2	225.4	267.2	262.1	210.1	168.9	160.1	151.3
55°	110.2	127.3	148.3	147.0	123.5	105.0	101.6	98.2
57.5°	70.4	77.9	86.2	86.2	77.9	70.4	65.1	59.7
60°	49.8	56.1	63.0	62.1	53.6	46.0	41.3	36.6
62.5°	39.0	43.8	49.6	49.1	42.3	36.7	35.1	33.5
65°	31.7	32.1	32.5	32.3	31.4	30.6	29.7	28.9
67.5°	28.0	27.8	27.5	27.3	27.2	26.9	26.2	25.4
70°	24.9	25.0	25.0	24.8	24.4	24.0	23.5	23.1
72.5°	22.6	22.5	22.1	21.9	21.8	21.6	20.8	20.0
75°	18.3	18.3	18.3	18.1	17.6	17.2	16.8	16.4
77.5°	14.7	14.5	14.1	13.9	13.9	13.8	13.3	12.9
80°	12.4	12.2	11.8	11.5	11.5	11.4	11.0	10.6
82.5°	9.4	9.4	9.3	9.2	9.2	9.1	8.7	8.3
85°	5.8	5.5	5.0	4.8	4.8	4.8	4.8	4.8
87.5°	5.9	7.6	9.4	11.5	13.7	14.8	16.2	16.9
90°	18.3	27.9	38.5	50.0	60.6	66.4	73.1	76.9
92.5°	44.4	59.4	77.7	95.4	110.6	119.5	125.4	127.0
95°	104.8	126.0	151.0	179.9	196.2	213.5	226.0	228.9
97.5°	161.8	199.7	234.5	260.3	286.0	304.9	316.8	320.7
100°	204.9	244.3	287.6	316.4	345.3	362.6	379.9	376.1
102.5°	254.1	291.2	335.3	369.5	403.8	424.9	437.6	443.8
105°	325.1	368.4	405.9	451.1	479.9	504.9	523.2	527.1
107.5°	391.6	441.3	479.0	521.9	556.3	578.4	597.3	603.6
110°	438.6	490.5	536.7	570.3	604.0	630.0	647.3	655.9

TEST NUMBER: P709388

CATALOG NUMBER: DL2W-WB-M-125U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	480.9	533.6	585.9	624.2	660.2	683.8	701.2	710.6
115°	541.5	598.2	649.2	706.0	736.7	756.9	769.4	774.2
117.5°	597.1	654.8	709.8	762.1	799.3	812.7	822.5	828.3
120°	630.9	688.6	744.4	794.4	833.9	855.0	865.6	871.4
122.5°	662.5	721.0	776.0	826.0	865.4	889.7	903.3	907.6
125°	709.8	768.5	823.3	868.5	907.9	934.9	950.3	952.2
127.5°	753.1	803.9	863.5	911.0	948.1	973.1	987.2	993.0
130°	780.0	826.2	885.8	934.9	970.5	999.3	1011.8	1017.6
132.5°	807.7	847.0	902.7	954.1	992.8	1018.5	1031.8	1037.6
135°	853.1	876.2	925.2	977.2	1015.7	1041.6	1055.1	1059.9
137.5°	903.9	909.5	941.8	990.5	1031.4	1056.6	1067.6	1073.8
140°	937.8	934.9	954.1	997.4	1036.8	1062.8	1075.3	1079.1
142.5°	973.9	962.6	971.8	1004.3	1040.7	1065.1	1078.4	1082.2
145°	1031.0	1008.0	1003.2	1021.4	1045.5	1068.6	1081.1	1084.9
147.5°	1093.6	1062.6	1040.3	1046.1	1058.4	1073.6	1085.3	1086.1
150°	1135.9	1100.3	1069.5	1067.6	1071.4	1082.0	1090.7	1090.7
152.5°	1181.3	1137.2	1101.8	1093.8	1090.7	1095.9	1101.5	1100.7
155°	1249.4	1201.3	1157.0	1138.8	1131.1	1125.3	1125.3	1122.4
157.5°	1315.2	1264.2	1218.2	1195.7	1180.7	1172.4	1167.4	1161.7
160°	1359.0	1308.0	1255.1	1234.9	1217.6	1207.1	1201.3	1195.5
162.5°	1398.3	1351.1	1301.3	1271.9	1256.9	1247.1	1240.5	1233.2
165°	1453.3	1411.9	1364.8	1334.0	1318.6	1306.1	1300.4	1293.6
167.5°	1500.8	1467.9	1427.9	1398.5	1387.5	1371.1	1366.5	1353.4
170°	1529.3	1503.3	1464.8	1440.8	1432.1	1419.6	1411.9	1400.4
172.5°	1553.9	1532.5	1501.8	1480.0	1479.1	1465.0	1458.9	1451.9
175°	1586.0	1572.5	1548.5	1532.1	1537.9	1531.2	1530.2	1518.7
177.5°	1606.8	1603.7	1588.3	1581.4	1586.0	1586.8	1586.8	1578.3
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

(END OF REPORT)