

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: P709257

Luminaire Tested: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709257
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4895.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

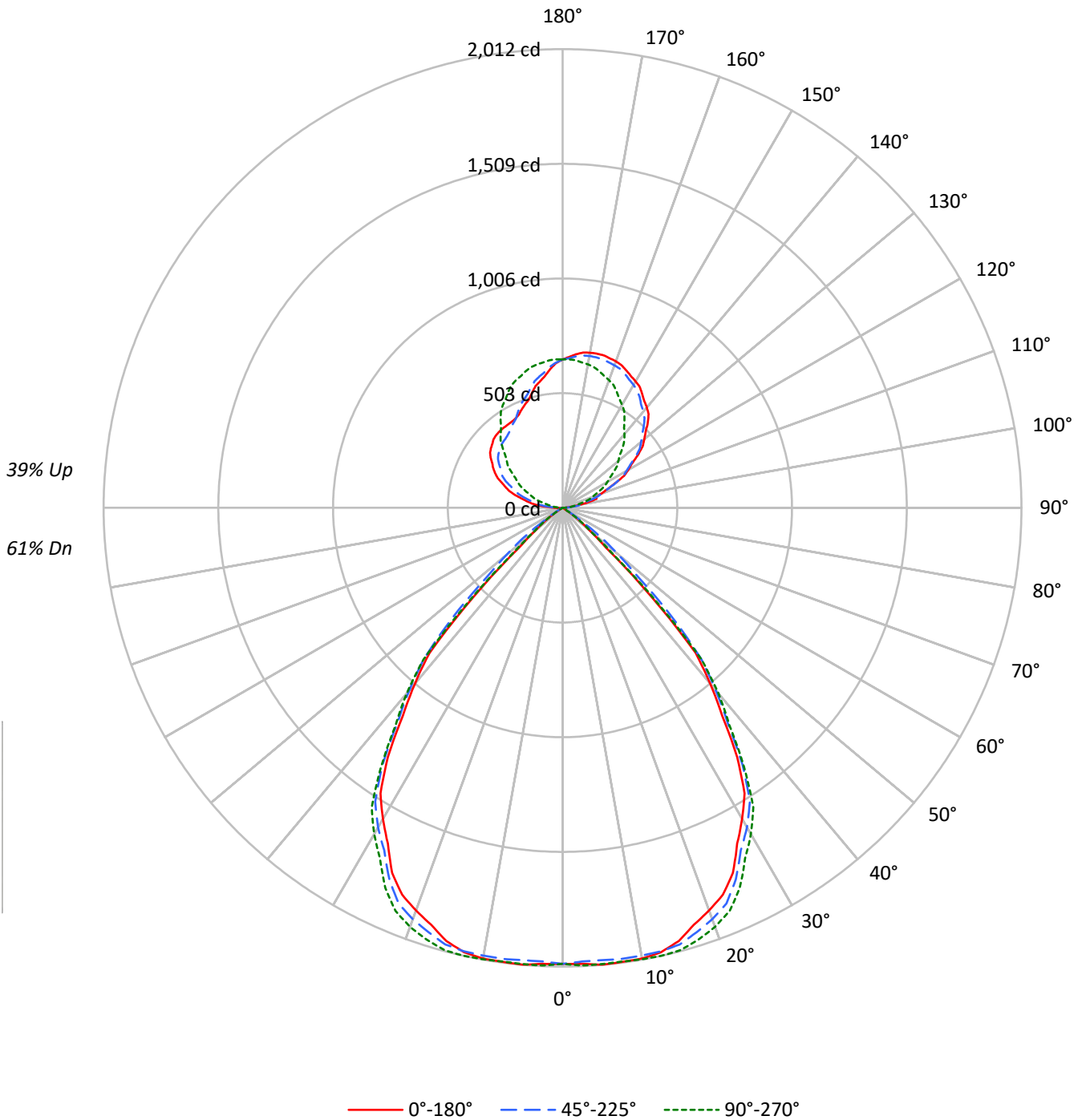
Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709257

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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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	103	99	96	93	96	93	91	88	82	80	78	72	71	69	62	61	61	56
2	96	90	85	81	90	85	80	77	75	72	69	66	64	62	58	57	55	51
3	89	81	75	70	84	77	72	67	69	65	61	61	58	56	54	52	50	47
4	83	74	67	62	78	70	64	60	63	58	55	56	53	50	50	48	45	42
5	77	67	60	55	73	64	58	53	58	53	49	52	48	45	46	44	41	39
6	72	61	54	49	68	59	52	48	53	48	44	48	44	41	43	40	38	35
7	67	56	49	45	63	54	48	43	49	44	40	44	40	37	40	37	35	32
8	63	52	45	40	59	50	43	39	45	40	37	41	37	34	37	34	32	30
9	59	48	41	37	56	46	40	36	42	37	33	38	34	31	35	32	29	27
10	55	44	38	34	52	43	37	33	39	34	31	36	32	29	33	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32295	32295	32295	32295	32295
5°	32597	32271	32548	32271	32597
10°	32908	32691	32957	32691	32908
15°	32883	33142	33551	33142	32883
20°	32287	32984	33594	32984	32287
25°	31481	32017	32763	32017	31481
30°	29364	30152	30799	30152	29364
35°	26309	27110	27334	27110	26309
40°	21216	22037	22417	22037	21216
45°	12543	15592	13367	15592	12543
50°	3946	7973	4172	7973	3946
55°	1576	2804	1576	2804	1576
60°	32	760	97	760	32
65°	0	31	0	31	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 15648 cd/sqm

TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.9
10°-20°	560.2	11.4
20°-30°	824.2	16.8
30°-40°	842.4	17.2
40°-50°	485.3	9.9
50°-60°	83.5	1.7
60°-70°	3.0	0.1
70°-80°	0.0	0.0
80°-90°	3.5	0.1
90°-100°	52.0	1.1
100°-110°	151.3	3.1
110°-120°	246.7	5.0
120°-130°	313.2	6.4
130°-140°	335.0	6.8
140°-150°	312.8	6.4
150°-160°	257.5	5.3
160°-170°	172.7	3.5
170°-180°	61.3	1.3
0°-30°	1575.7	32.2
0°-40°	2418.0	49.4
0°-60°	2986.8	61.0
0°-90°	2993.3	61.1
90°-120°	450.0	9.2
90°-150°	1410.9	28.8
90°-180°	1903.0	38.9
0°-180°	4895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2000	2000	2000	2000	2000	
5°	2011	1991	2008	1991	2011	192
15°	1967	1983	2007	1983	1967	552
25°	1767	1797	1839	1797	1767	804
35°	1335	1375	1387	1375	1335	819
45°	549	683	585	683	549	426
55°	56	100	56	100	56	57
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	14	13	2	18	30	7
95°	15	20	20	67	91	26
105°	155	116	95	172	213	144
115°	253	255	183	274	315	252
125°	402	390	273	341	385	359
135°	529	503	371	383	427	406
145°	609	590	473	406	436	382
155°	664	648	562	463	452	306
165°	693	674	621	542	520	196
175°	676	667	650	622	612	65
180°	651	651	651	651	651	

TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2
2.5°	2001.8	2003.6	2005.4	1999.7	1991.5	1991.0	1998.1	2004.0	2006.5	2009.0	2006.5
5°	2011.2	2012.1	2013.0	2004.2	1992.2	1990.0	1997.5	2003.8	2006.0	2008.2	2006.0
7.5°	2008.8	2011.0	2013.3	2006.4	1996.5	1994.3	1999.6	2004.0	2005.5	2007.0	2005.5
10°	2007.2	2009.4	2011.7	2004.5	1994.3	1993.7	2002.5	2009.3	2009.8	2010.2	2009.8
12.5°	1996.0	2000.0	2004.0	1998.9	1990.8	1993.7	2007.6	2017.3	2014.6	2011.8	2014.6
15°	1967.2	1973.0	1978.8	1979.2	1977.9	1987.6	2008.5	2022.3	2014.8	2007.2	2014.8
17.5°	1916.8	1924.9	1933.1	1938.8	1943.7	1960.1	1987.9	2006.1	1995.5	1984.8	1995.5
20°	1879.1	1886.3	1893.4	1901.5	1909.9	1929.5	1960.2	1980.1	1967.6	1955.2	1967.6
22.5°	1836.7	1842.4	1848.1	1857.5	1868.0	1888.0	1917.2	1936.3	1924.9	1913.6	1924.9
25°	1767.1	1770.2	1773.3	1780.1	1788.1	1806.3	1834.8	1854.2	1846.7	1839.1	1846.7
27.5°	1659.0	1663.0	1667.0	1675.5	1685.4	1701.1	1722.4	1737.9	1735.8	1733.6	1735.8
30°	1575.0	1582.5	1590.1	1600.0	1610.6	1624.0	1640.0	1652.0	1652.0	1652.0	1652.0
32.5°	1485.3	1492.9	1500.4	1511.1	1522.9	1534.4	1545.8	1554.6	1555.7	1556.7	1555.7
35°	1334.8	1341.5	1348.1	1358.5	1370.1	1380.7	1390.5	1396.6	1391.7	1386.8	1391.7
37.5°	1149.9	1155.5	1161.1	1171.8	1184.3	1194.2	1201.6	1206.7	1204.8	1202.9	1204.8
40°	1006.6	1015.1	1023.5	1032.3	1041.2	1049.9	1058.3	1064.5	1064.1	1063.6	1064.1
42.5°	863.3	866.8	870.3	881.8	896.0	907.2	915.3	919.1	910.1	901.1	910.1
45°	549.3	595.1	640.9	664.4	680.4	685.3	679.1	664.5	624.9	585.4	624.9
47.5°	258.8	307.2	355.7	402.0	447.7	455.9	426.9	392.7	343.5	294.2	343.5
50°	157.1	173.5	190.0	245.1	313.2	321.6	270.5	224.8	195.5	166.1	195.5
52.5°	105.9	115.2	124.5	164.8	215.4	218.4	173.6	136.8	123.9	110.9	123.9
55°	56.0	58.7	61.4	78.0	99.4	99.8	79.4	63.1	59.6	56.0	59.6
57.5°	21.0	25.4	29.7	36.5	44.0	43.8	35.8	28.6	23.8	19.0	23.8
60°	1.0	5.0	9.0	15.7	23.2	23.9	17.7	11.9	7.4	3.0	7.4
62.5°	0.2	1.4	2.5	7.4	13.5	13.7	7.8	3.1	1.8	0.6	1.8
65°	0.0	0.0	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	2.6	2.6	2.2	1.6	1.0	0.4	1.0
90°	14.0	14.0	14.0	14.0	13.0	13.0	11.0	8.0	5.0	2.0	5.0
92.5°	17.2	17.2	16.4	16.4	15.4	13.8	11.8	11.2	12.2	6.8	13.0
95°	15.0	15.0	15.0	15.0	17.0	23.0	32.0	34.0	23.0	20.0	28.0
97.5°	35.4	37.8	41.2	49.6	58.4	63.0	59.2	43.0	41.6	39.8	53.2
100°	73.0	73.0	78.0	84.0	96.0	79.0	60.0	59.0	56.0	55.0	70.0
102.5°	115.4	117.8	120.4	121.6	94.4	85.4	82.4	76.6	72.0	71.0	86.8
105°	155.0	148.0	127.0	115.0	115.0	117.0	115.0	108.0	98.0	95.0	112.0
107.5°	151.6	148.6	151.2	152.4	157.2	155.8	151.6	138.8	124.8	122.2	137.2
110°	178.0	179.0	180.0	182.0	186.0	183.0	178.0	162.0	144.0	139.0	154.0

TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	209.2	208.6	211.2	212.4	212.4	211.0	202.8	182.8	163.2	157.4	170.8
115°	253.0	255.0	256.0	257.0	256.0	254.0	239.0	217.0	193.0	183.0	195.0
117.5°	303.4	298.8	300.2	301.0	301.6	294.4	278.0	252.0	224.2	209.4	218.6
120°	333.0	330.0	329.0	329.0	328.0	320.0	302.0	276.0	245.0	227.0	233.0
122.5°	359.4	358.8	358.6	357.8	357.6	346.4	326.8	299.2	267.4	245.4	247.4
125°	402.0	403.0	400.0	396.0	395.0	385.0	364.0	335.0	301.0	273.0	270.0
127.5°	442.4	444.4	441.2	439.0	433.6	419.8	399.8	370.8	332.8	301.4	291.6
130°	468.0	470.0	466.0	463.0	456.0	443.0	423.0	394.0	356.0	319.0	306.0
132.5°	493.6	494.0	490.0	486.2	478.4	465.4	445.4	417.2	376.8	339.8	322.8
135°	529.0	530.0	525.0	520.0	508.0	498.0	479.0	451.0	410.0	371.0	348.0
137.5°	558.2	558.4	554.0	546.6	538.6	525.8	508.2	481.8	444.0	402.0	372.8
140°	575.0	576.0	570.0	565.0	557.0	545.0	529.0	501.0	464.0	422.0	392.0
142.5°	589.4	590.4	586.0	581.0	573.0	561.0	546.6	520.2	484.0	442.8	410.4
145°	609.0	612.0	608.0	603.0	596.0	585.0	570.0	546.0	513.0	473.0	437.0
147.5°	629.8	630.0	627.0	624.0	616.0	604.2	593.4	569.4	538.0	502.8	465.2
150°	641.0	642.0	639.0	636.0	628.0	617.0	607.0	583.0	554.0	522.0	486.0
152.5°	650.6	652.4	650.2	646.4	639.2	627.4	618.2	595.8	569.2	538.8	504.4
155°	664.0	667.0	665.0	661.0	653.0	642.0	633.0	614.0	589.0	562.0	531.0
157.5°	676.8	679.6	677.4	672.6	664.4	654.6	646.0	628.0	606.8	583.2	554.8
160°	684.0	686.0	683.0	679.0	670.0	661.0	654.0	636.0	618.0	596.0	570.0
162.5°	688.0	690.8	687.8	683.0	674.0	665.8	659.6	643.2	626.0	606.4	583.6
165°	693.0	694.0	692.0	688.0	678.0	671.0	666.0	653.0	637.0	621.0	603.0
167.5°	692.6	696.6	693.6	689.8	679.0	674.0	669.4	657.8	646.0	632.6	619.2
170°	691.0	695.0	692.0	689.0	679.0	674.0	671.0	661.0	650.0	639.0	628.0
172.5°	687.0	690.2	688.0	685.0	675.8	671.6	670.2	661.8	652.4	643.8	634.4
175°	676.0	680.0	679.0	676.0	668.0	666.0	667.0	661.0	655.0	650.0	643.0
177.5°	662.2	666.2	664.6	663.0	657.4	656.6	659.8	656.6	653.4	651.8	648.6
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2	2000.2
2.5°	2004.0	1998.1	1991.0	1991.5	1999.7	2005.4	2003.6	2001.8
5°	2003.8	1997.5	1990.0	1992.2	2004.2	2013.0	2012.1	2011.2
7.5°	2004.0	1999.6	1994.3	1996.5	2006.4	2013.3	2011.0	2008.8
10°	2009.3	2002.5	1993.7	1994.3	2004.5	2011.7	2009.4	2007.2
12.5°	2017.3	2007.6	1993.7	1990.8	1998.9	2004.0	2000.0	1996.0
15°	2022.3	2008.5	1987.6	1977.9	1979.2	1978.8	1973.0	1967.2
17.5°	2006.1	1987.9	1960.1	1943.7	1938.8	1933.1	1924.9	1916.8
20°	1980.1	1960.2	1929.5	1909.9	1901.5	1893.4	1886.3	1879.1
22.5°	1936.3	1917.2	1888.0	1868.0	1857.5	1848.1	1842.4	1836.7
25°	1854.2	1834.8	1806.3	1788.1	1780.1	1773.3	1770.2	1767.1
27.5°	1737.9	1722.4	1701.1	1685.4	1675.5	1667.0	1663.0	1659.0
30°	1652.0	1640.0	1624.0	1610.6	1600.0	1590.1	1582.5	1575.0
32.5°	1554.6	1545.8	1534.4	1522.9	1511.1	1500.4	1492.9	1485.3
35°	1396.6	1390.5	1380.7	1370.1	1358.5	1348.1	1341.5	1334.8
37.5°	1206.7	1201.6	1194.2	1184.3	1171.8	1161.1	1155.5	1149.9
40°	1064.5	1058.3	1049.9	1041.2	1032.3	1023.5	1015.1	1006.6
42.5°	919.1	915.3	907.2	896.0	881.8	870.3	866.8	863.3
45°	664.5	679.1	685.3	680.4	664.4	640.9	595.1	549.3
47.5°	392.7	426.9	455.9	447.7	402.0	355.7	307.2	258.8
50°	224.8	270.5	321.6	313.2	245.1	190.0	173.5	157.1
52.5°	136.8	173.6	218.4	215.4	164.8	124.5	115.2	105.9
55°	63.1	79.4	99.8	99.4	78.0	61.4	58.7	56.0
57.5°	28.6	35.8	43.8	44.0	36.5	29.7	25.4	21.0
60°	11.9	17.7	23.9	23.2	15.7	9.0	5.0	1.0
62.5°	3.1	7.8	13.7	13.5	7.4	2.5	1.4	0.2
65°	0.0	0.3	0.8	0.8	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	2.2	3.2	4.2	5.0	5.4	5.8	6.0
90°	7.0	11.0	16.0	21.0	25.0	27.0	29.0	30.0
92.5°	18.2	24.6	32.0	37.8	44.2	48.6	50.6	50.8
95°	42.0	51.0	62.0	72.0	80.0	86.0	90.0	91.0
97.5°	64.6	81.4	93.6	105.2	116.8	124.0	128.6	129.2
100°	83.0	99.0	116.0	126.0	140.0	148.0	151.0	154.0
102.5°	103.0	116.6	135.2	150.0	163.2	170.4	176.6	179.6
105°	131.0	148.0	164.0	181.0	196.0	204.0	210.0	213.0
107.5°	157.6	178.4	194.4	211.0	224.2	234.0	241.2	244.2
110°	176.0	196.0	216.0	231.0	245.0	254.0	262.0	265.0

TEST NUMBER: P709257

CATALOG NUMBER: DL2W-BB-M-050U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	193.6	214.4	236.0	252.6	265.8	277.2	282.8	288.2
115°	218.0	241.0	263.0	284.0	298.0	306.0	311.0	315.0
117.5°	239.6	262.8	285.4	306.4	320.8	327.4	330.4	334.2
120°	254.0	278.0	299.0	320.0	336.0	345.0	348.0	351.0
122.5°	267.6	290.8	312.6	332.8	348.8	358.6	363.2	365.4
125°	286.0	309.0	331.0	351.0	365.0	377.0	383.0	385.0
127.5°	301.2	324.2	347.4	366.6	381.4	391.4	397.4	400.2
130°	314.0	333.0	357.0	377.0	391.0	401.0	407.0	409.0
132.5°	325.2	341.0	363.4	384.2	399.0	409.8	414.2	417.0
135°	345.0	353.0	372.0	394.0	410.0	419.0	424.0	427.0
137.5°	364.2	366.4	378.4	398.6	414.6	424.6	429.6	431.6
140°	377.0	376.0	384.0	401.0	417.0	427.0	432.0	434.0
142.5°	391.4	388.0	392.0	404.2	418.6	428.6	434.4	435.6
145°	415.0	406.0	403.0	410.0	421.0	430.0	435.0	436.0
147.5°	441.4	427.6	419.0	420.2	426.4	432.8	436.6	437.4
150°	459.0	442.0	431.0	429.0	432.0	436.0	439.0	439.0
152.5°	475.0	458.8	443.8	440.2	439.2	441.6	443.8	443.0
155°	503.0	483.0	466.0	460.0	455.0	454.0	453.0	452.0
157.5°	531.0	509.2	490.0	481.0	475.6	472.4	470.2	467.6
160°	547.0	526.0	506.0	497.0	490.0	486.0	483.0	482.0
162.5°	562.2	543.6	524.4	512.2	506.0	500.4	499.0	495.6
165°	584.0	569.0	548.0	536.0	531.0	527.0	524.0	520.0
167.5°	605.6	591.6	574.0	562.4	556.8	552.8	549.4	547.2
170°	616.0	606.0	590.0	580.0	576.0	572.0	567.0	564.0
172.5°	626.4	618.0	605.2	596.0	594.4	589.6	587.8	584.0
175°	639.0	634.0	624.0	619.0	619.0	617.0	617.0	612.0
177.5°	647.8	646.2	639.8	636.6	639.0	639.0	638.2	635.8
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)