

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: P709340

Luminaire Tested: DL2W-WB-M-050U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

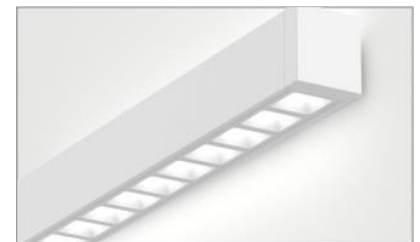
Test Information

Test Method: LM-79-2019
Report Number: P709340
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-050U-075D-930-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: 4972.5 lumens
Efficiency: N/A
Efficacy: 117.0 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: Semi-Direct

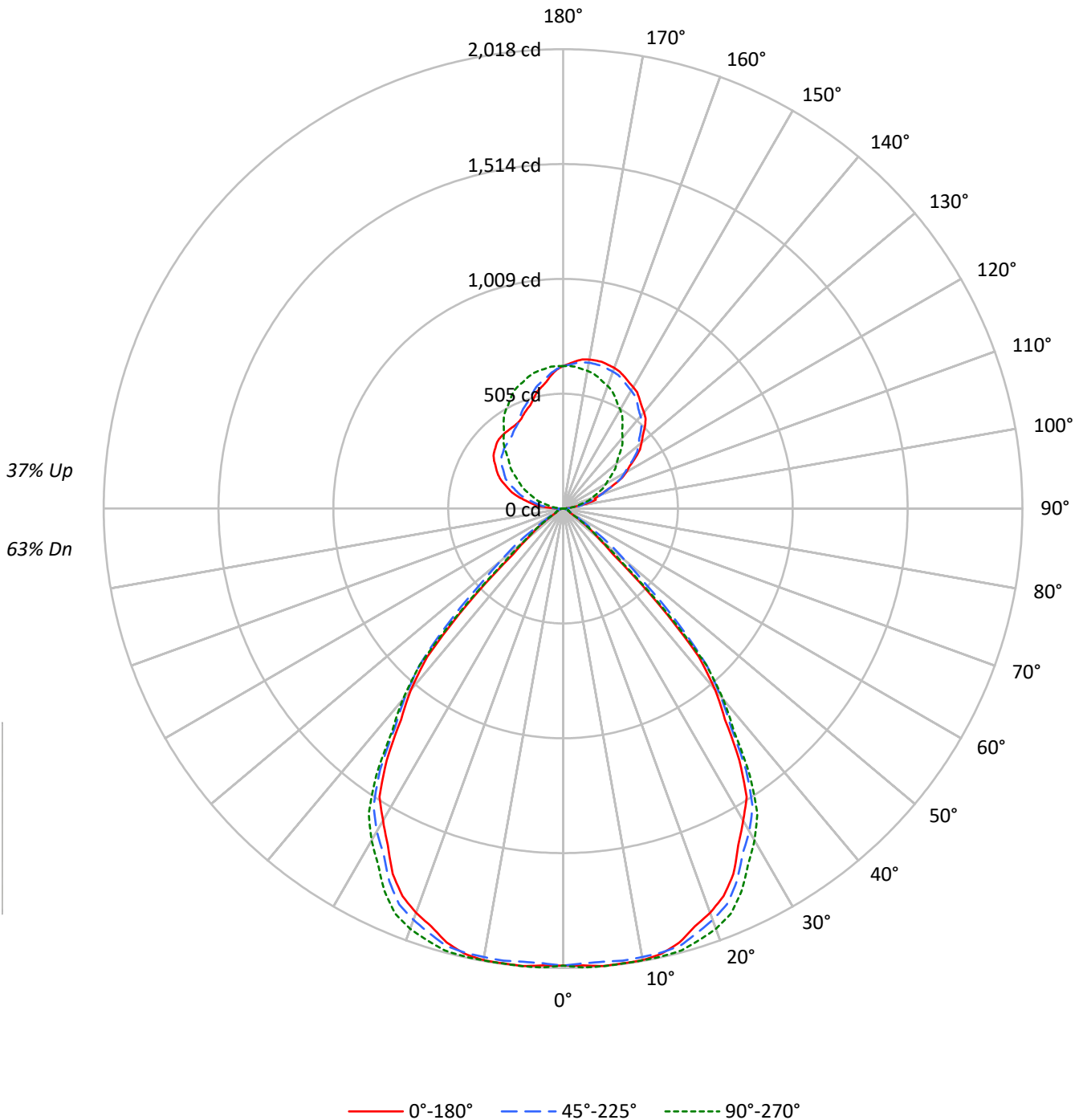
Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	91	91	91	79	79	79	68	68	68	63
1	103	99	96	93	97	94	91	89	83	81	79	73	72	70	64	63	62	58
2	96	90	85	80	90	85	80	77	76	72	69	67	65	63	59	57	56	52
3	89	81	75	70	84	77	71	67	69	65	61	62	58	56	55	52	51	47
4	83	74	67	62	78	70	64	59	63	58	55	57	53	50	51	48	46	43
5	77	67	60	55	73	64	57	53	58	53	49	52	48	45	47	44	42	39
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	38	35
7	67	56	49	44	63	54	47	43	49	44	40	45	40	37	40	37	35	32
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	38	34	32	30
9	59	48	41	36	56	46	39	35	42	37	33	38	34	31	35	32	29	27
10	55	44	38	33	52	42	36	32	39	34	30	36	32	29	33	29	27	25

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.9
10°-20°	561.2	11.3
20°-30°	829.8	16.7
30°-40°	858.6	17.3
40°-50°	516.4	10.4
50°-60°	123.5	2.5
60°-70°	33.8	0.7
70°-80°	18.9	0.4
80°-90°	8.6	0.2
90°-100°	50.0	1.0
100°-110°	145.5	2.9
110°-120°	237.3	4.8
120°-130°	301.2	6.1
130°-140°	322.2	6.5
140°-150°	300.8	6.0
150°-160°	247.7	5.0
160°-170°	166.1	3.3
170°-180°	59.0	1.2
0°-30°	1583.0	31.8
0°-40°	2441.5	49.1
0°-60°	3081.4	62.0
0°-90°	3142.7	63.2
90°-120°	432.8	8.7
90°-150°	1357.0	27.3
90°-180°	1830.0	36.8
0°-180°	4972.5	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°	14	12	2	18	29	7
95°	14	19	19	64	88	25
105°	149	112	91	166	205	139
115°	243	245	176	263	303	243
125°	387	375	263	328	370	345
135°	509	484	357	368	411	390
145°	586	568	455	391	419	367
155°	639	623	540	445	435	295
165°	666	649	597	521	500	188
175°	650	642	625	598	589	63
180°	626	626	626	626	626	

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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°	4.2	4.2	4.2	4.2	4.0	4.2	4.2	3.8	2.8	1.9	2.8
90°	13.5	13.5	13.5	13.5	12.5	12.5	10.6	7.7	4.8	1.9	4.8
92.5°	16.5	16.5	15.8	15.8	14.8	13.3	11.3	10.8	11.7	6.5	12.5
95°	14.4	14.4	14.4	14.4	16.4	22.1	30.8	32.7	22.1	19.2	26.9
97.5°	34.0	36.4	39.6	47.7	56.2	60.6	56.9	41.4	40.0	38.3	51.2
100°	70.2	70.2	75.0	80.8	92.3	76.0	57.7	56.7	53.9	52.9	67.3
102.5°	111.0	113.3	115.8	117.0	90.8	82.1	79.3	73.7	69.2	68.3	83.5
105°	149.1	142.3	122.1	110.6	110.6	112.5	110.6	103.9	94.3	91.4	107.7
107.5°	145.8	142.9	145.4	146.6	151.2	149.8	145.8	133.5	120.0	117.5	132.0
110°	171.2	172.2	173.1	175.0	178.9	176.0	171.2	155.8	138.5	133.7	148.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	201.2	200.6	203.1	204.3	204.3	202.9	195.1	175.8	157.0	151.4	164.3
115°	243.3	245.3	246.2	247.2	246.2	244.3	229.9	208.7	185.6	176.0	187.6
117.5°	291.8	287.4	288.7	289.5	290.1	283.2	267.4	242.4	215.6	201.4	210.2
120°	320.3	317.4	316.4	316.4	315.5	307.8	290.5	265.5	235.6	218.3	224.1
122.5°	345.7	345.1	344.9	344.1	343.9	333.2	314.3	287.8	257.2	236.0	237.9
125°	386.6	387.6	384.7	380.9	379.9	370.3	350.1	322.2	289.5	262.6	259.7
127.5°	425.5	427.4	424.3	422.2	417.0	403.8	384.5	356.6	320.1	289.9	280.5
130°	450.1	452.0	448.2	445.3	438.6	426.1	406.8	378.9	342.4	306.8	294.3
132.5°	474.7	475.1	471.3	467.6	460.1	447.6	428.4	401.3	362.4	326.8	310.5
135°	508.8	509.8	504.9	500.1	488.6	479.0	460.7	433.8	394.3	356.8	334.7
137.5°	536.9	537.1	532.8	525.7	518.0	505.7	488.8	463.4	427.0	386.6	358.6
140°	553.0	554.0	548.2	543.4	535.7	524.2	508.8	481.9	446.3	405.9	377.0
142.5°	566.9	567.8	563.6	558.8	551.1	539.6	525.7	500.3	465.5	425.9	394.7
145°	585.7	588.6	584.8	580.0	573.2	562.7	548.2	525.1	493.4	454.9	420.3
147.5°	605.7	605.9	603.0	600.2	592.5	581.1	570.7	547.6	517.4	483.6	447.4
150°	616.5	617.5	614.6	611.7	604.0	593.4	583.8	560.7	532.8	502.1	467.4
152.5°	625.7	627.5	625.4	621.7	614.8	603.4	594.6	573.0	547.5	518.2	485.1
155°	638.6	641.5	639.6	635.7	628.1	617.5	608.8	590.5	566.5	540.5	510.7
157.5°	650.9	653.6	651.5	646.9	639.0	629.6	621.3	604.0	583.6	560.9	533.6
160°	657.9	659.8	656.9	653.1	644.4	635.7	629.0	611.7	594.4	573.2	548.2
162.5°	661.7	664.4	661.5	656.9	648.3	640.4	634.4	618.6	602.1	583.2	561.3
165°	666.5	667.5	665.6	661.7	652.1	645.4	640.6	628.1	612.7	597.3	580.0
167.5°	666.1	670.0	667.1	663.4	653.1	648.3	643.8	632.7	621.3	608.4	595.5
170°	664.6	668.5	665.6	662.7	653.1	648.3	645.4	635.7	625.2	614.6	604.0
172.5°	660.8	663.8	661.7	658.8	650.0	645.9	644.6	636.5	627.5	619.2	610.2
175°	650.2	654.0	653.1	650.2	642.5	640.6	641.5	635.7	630.0	625.2	618.4
177.5°	636.9	640.8	639.2	637.7	632.3	631.5	634.6	631.5	628.4	626.9	623.8
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

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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°	3.6	4.2	4.8	5.6	6.3	6.7	7.1	7.3
90°	6.7	10.6	15.4	20.2	24.0	26.0	27.9	28.9
92.5°	17.5	23.7	30.8	36.4	42.5	46.7	48.7	48.9
95°	40.4	49.1	59.6	69.2	76.9	82.7	86.6	87.5
97.5°	62.1	78.3	90.0	101.2	112.3	119.3	123.7	124.3
100°	79.8	95.2	111.6	121.2	134.7	142.3	145.2	148.1
102.5°	99.1	112.1	130.0	144.3	157.0	163.9	169.9	172.7
105°	126.0	142.3	157.7	174.1	188.5	196.2	202.0	204.9
107.5°	151.6	171.6	187.0	202.9	215.6	225.1	232.0	234.9
110°	169.3	188.5	207.7	222.2	235.6	244.3	252.0	254.9

TEST NUMBER: P709340

CATALOG NUMBER: DL2W-WB-M-050U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	186.2	206.2	227.0	243.0	255.6	266.6	272.0	277.2
115°	209.7	231.8	253.0	273.2	286.6	294.3	299.1	303.0
117.5°	230.4	252.8	274.5	294.7	308.5	314.9	317.8	321.4
120°	244.3	267.4	287.6	307.8	323.2	331.8	334.7	337.6
122.5°	257.4	279.7	300.7	320.1	335.5	344.9	349.3	351.4
125°	275.1	297.2	318.4	337.6	351.1	362.6	368.4	370.3
127.5°	289.7	311.8	334.1	352.6	366.8	376.4	382.2	384.9
130°	302.0	320.3	343.4	362.6	376.1	385.7	391.5	393.4
132.5°	312.8	328.0	349.5	369.5	383.8	394.1	398.4	401.1
135°	331.8	339.5	357.8	378.9	394.3	403.0	407.8	410.7
137.5°	350.3	352.4	363.9	383.4	398.8	408.4	413.2	415.1
140°	362.6	361.6	369.3	385.7	401.1	410.7	415.5	417.4
142.5°	376.4	373.2	377.0	388.8	402.6	412.2	417.8	419.0
145°	399.1	390.5	387.6	394.3	404.9	413.6	418.4	419.3
147.5°	424.5	411.3	403.0	404.1	410.1	416.3	419.9	420.7
150°	441.5	425.1	414.5	412.6	415.5	419.3	422.2	422.2
152.5°	456.9	441.3	426.8	423.4	422.4	424.7	426.8	426.1
155°	483.8	464.5	448.2	442.4	437.6	436.7	435.7	434.7
157.5°	510.7	489.7	471.3	462.6	457.4	454.4	452.2	449.7
160°	526.1	505.9	486.7	478.0	471.3	467.4	464.5	463.6
162.5°	540.7	522.8	504.4	492.6	486.7	481.3	479.9	476.7
165°	561.7	547.3	527.1	515.5	510.7	506.9	504.0	500.1
167.5°	582.5	569.0	552.1	540.9	535.5	531.7	528.4	526.3
170°	592.5	582.9	567.5	557.8	554.0	550.1	545.3	542.5
172.5°	602.5	594.4	582.1	573.2	571.7	567.1	565.3	561.7
175°	614.6	609.8	600.2	595.4	595.4	593.4	593.4	588.6
177.5°	623.1	621.5	615.4	612.3	614.6	614.6	613.8	611.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

(END OF REPORT)