

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: P709256

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

Issue Date: 3/5/2020

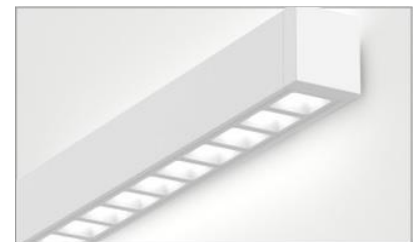
**Test Information**

Test Method: LM-79-2019  
Report Number: P709256  
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-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: 4708.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 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

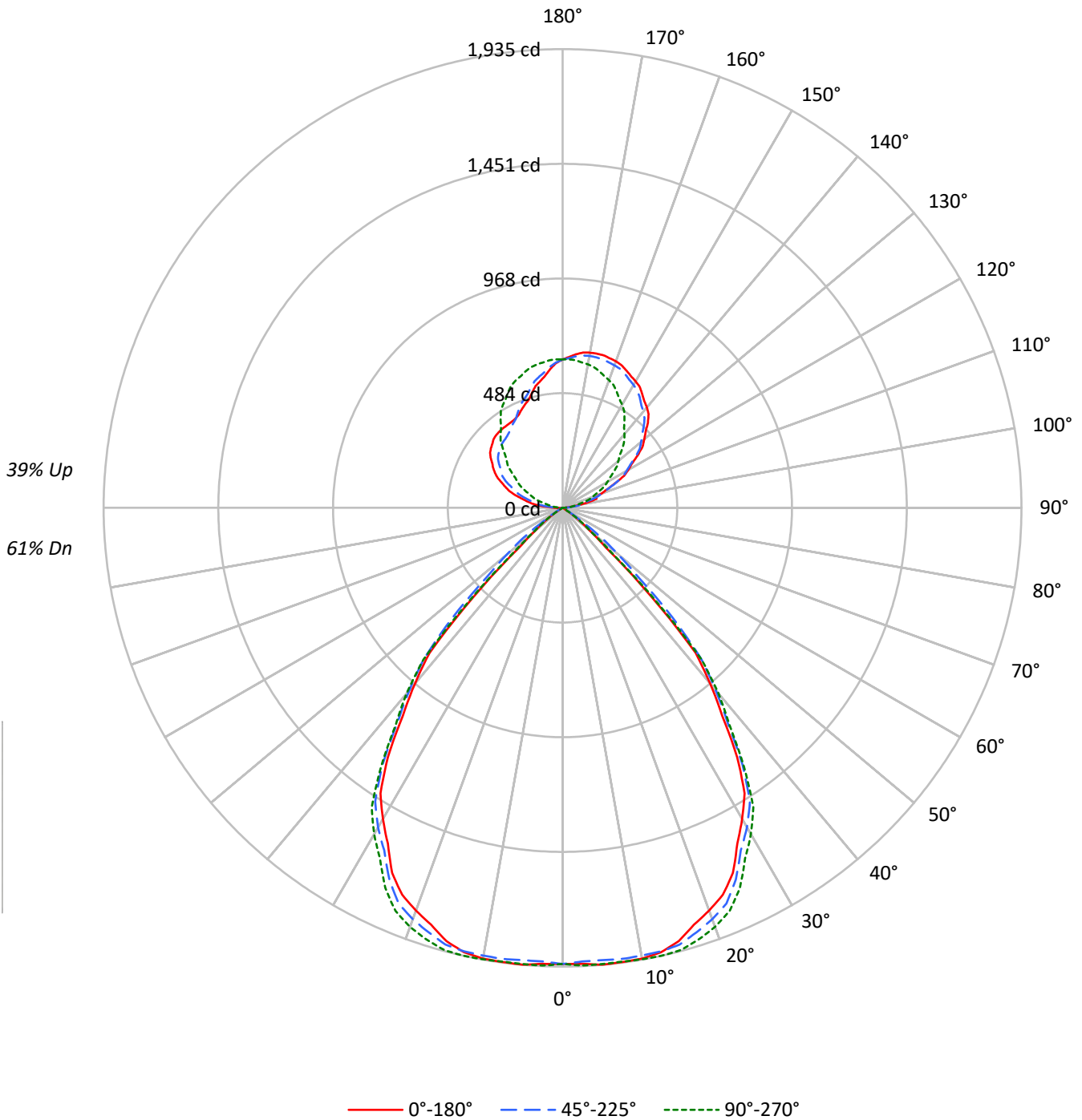
Input Watts (W): 42.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### 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	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°	31061	31061	31061	31061	31061
5°	31352	31038	31305	31038	31352
10°	31650	31442	31698	31442	31650
15°	31626	31876	32269	31876	31626
20°	31055	31725	32311	31725	31055
25°	30278	30794	31513	30794	30278
30°	28241	29000	29623	29000	28241
35°	25304	26074	26292	26074	25304
40°	20407	21195	21562	21195	20407
45°	12063	14996	12855	14996	12063
50°	3795	7669	4014	7669	3795
55°	1517	2697	1517	2697	1517
60°	32	731	94	731	32
65°	0	27	0	27	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: 15050 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	3.9
10°-20°	538.8	11.4
20°-30°	792.7	16.8
30°-40°	810.2	17.2
40°-50°	466.7	9.9
50°-60°	80.3	1.7
60°-70°	2.9	0.1
70°-80°	0.0	0.0
80°-90°	3.4	0.1
90°-100°	50.0	1.1
100°-110°	145.5	3.1
110°-120°	237.3	5.0
120°-130°	301.2	6.4
130°-140°	322.2	6.8
140°-150°	300.8	6.4
150°-160°	247.7	5.3
160°-170°	166.1	3.5
170°-180°	59.0	1.3
0°-30°	1515.5	32.2
0°-40°	2325.7	49.4
0°-60°	2872.7	61.0
0°-90°	2879.0	61.2
90°-120°	432.8	9.2
90°-150°	1357.0	28.8
90°-180°	1830.0	38.9
0°-180°	4708.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1924	1924	1924	1924	1924	
5°	1934	1915	1932	1915	1934	184
15°	1892	1907	1930	1907	1892	531
25°	1700	1729	1769	1729	1700	774
35°	1284	1323	1334	1323	1284	787
45°	528	657	563	657	528	409
55°	54	96	54	96	54	55
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	14	12	2	18	29	6
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°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1925.3	1927.0	1928.8	1923.3	1915.4	1914.9	1921.7	1927.5	1929.9	1932.3	1929.9
5°	1934.4	1935.2	1936.1	1927.6	1916.1	1914.0	1921.2	1927.2	1929.4	1931.5	1929.4
7.5°	1932.1	1934.2	1936.4	1929.8	1920.3	1918.1	1923.2	1927.4	1928.9	1930.3	1928.9
10°	1930.5	1932.7	1934.8	1928.0	1918.1	1917.5	1926.0	1932.6	1933.0	1933.4	1933.0
12.5°	1919.8	1923.6	1927.5	1922.6	1914.8	1917.6	1930.9	1940.3	1937.6	1935.0	1937.6
15°	1892.0	1897.6	1903.2	1903.6	1902.3	1911.7	1931.8	1945.1	1937.8	1930.5	1937.8
17.5°	1843.5	1851.4	1859.3	1864.8	1869.5	1885.2	1912.0	1929.5	1919.2	1909.0	1919.2
20°	1807.4	1814.2	1821.0	1828.8	1837.0	1855.8	1885.3	1904.4	1892.5	1880.5	1892.5
22.5°	1766.5	1772.0	1777.5	1786.5	1796.7	1815.8	1844.0	1862.4	1851.4	1840.5	1851.4
25°	1699.6	1702.6	1705.6	1712.1	1719.8	1737.3	1764.7	1783.4	1776.1	1768.9	1776.1
27.5°	1595.6	1599.5	1603.3	1611.5	1621.1	1636.1	1656.6	1671.5	1669.5	1667.4	1669.5
30°	1514.8	1522.1	1529.3	1538.8	1549.1	1561.9	1577.3	1588.9	1588.9	1588.9	1588.9
32.5°	1428.6	1435.8	1443.1	1453.4	1464.7	1475.8	1486.7	1495.2	1496.2	1497.3	1496.2
35°	1283.8	1290.2	1296.6	1306.6	1317.7	1328.0	1337.4	1343.3	1338.6	1333.9	1338.6
37.5°	1106.0	1111.4	1116.7	1127.1	1139.1	1148.6	1155.7	1160.6	1158.8	1157.0	1158.8
40°	968.2	976.3	984.4	992.9	1001.4	1009.8	1017.9	1023.9	1023.4	1023.0	1023.4
42.5°	830.3	833.7	837.0	848.1	861.8	872.5	880.3	884.0	875.4	866.7	875.4
45°	528.3	572.4	616.5	639.0	654.4	659.1	653.1	639.1	601.1	563.0	601.1
47.5°	248.9	295.5	342.1	386.7	430.6	438.5	410.6	377.7	330.3	282.9	330.3
50°	151.1	166.9	182.7	235.8	301.2	309.4	260.2	216.2	188.0	159.8	188.0
52.5°	101.8	110.8	119.8	158.5	207.2	210.0	167.0	131.6	119.1	106.6	119.1
55°	53.9	56.5	59.0	75.1	95.6	96.0	76.3	60.7	57.3	53.9	57.3
57.5°	20.2	24.4	28.6	35.1	42.4	42.2	34.5	27.5	22.9	18.3	22.9
60°	1.0	4.8	8.7	15.1	22.3	23.0	17.0	11.4	7.2	2.9	7.2
62.5°	0.2	1.3	2.4	7.1	13.0	13.2	7.5	3.0	1.8	0.6	1.8
65°	0.0	0.0	0.0	0.3	0.7	0.7	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°	2.7	2.7	2.7	2.7	2.5	2.5	2.1	1.5	1.0	0.4	1.0
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°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	1927.5	1921.7	1914.9	1915.4	1923.3	1928.8	1927.0	1925.3
5°	1927.2	1921.2	1914.0	1916.1	1927.6	1936.1	1935.2	1934.4
7.5°	1927.4	1923.2	1918.1	1920.3	1929.8	1936.4	1934.2	1932.1
10°	1932.6	1926.0	1917.5	1918.1	1928.0	1934.8	1932.7	1930.5
12.5°	1940.3	1930.9	1917.6	1914.8	1922.6	1927.5	1923.6	1919.8
15°	1945.1	1931.8	1911.7	1902.3	1903.6	1903.2	1897.6	1892.0
17.5°	1929.5	1912.0	1885.2	1869.5	1864.8	1859.3	1851.4	1843.5
20°	1904.4	1885.3	1855.8	1837.0	1828.8	1821.0	1814.2	1807.4
22.5°	1862.4	1844.0	1815.8	1796.7	1786.5	1777.5	1772.0	1766.5
25°	1783.4	1764.7	1737.3	1719.8	1712.1	1705.6	1702.6	1699.6
27.5°	1671.5	1656.6	1636.1	1621.1	1611.5	1603.3	1599.5	1595.6
30°	1588.9	1577.3	1561.9	1549.1	1538.8	1529.3	1522.1	1514.8
32.5°	1495.2	1486.7	1475.8	1464.7	1453.4	1443.1	1435.8	1428.6
35°	1343.3	1337.4	1328.0	1317.7	1306.6	1296.6	1290.2	1283.8
37.5°	1160.6	1155.7	1148.6	1139.1	1127.1	1116.7	1111.4	1106.0
40°	1023.9	1017.9	1009.8	1001.4	992.9	984.4	976.3	968.2
42.5°	884.0	880.3	872.5	861.8	848.1	837.0	833.7	830.3
45°	639.1	653.1	659.1	654.4	639.0	616.5	572.4	528.3
47.5°	377.7	410.6	438.5	430.6	386.7	342.1	295.5	248.9
50°	216.2	260.2	309.4	301.2	235.8	182.7	166.9	151.1
52.5°	131.6	167.0	210.0	207.2	158.5	119.8	110.8	101.8
55°	60.7	76.3	96.0	95.6	75.1	59.0	56.5	53.9
57.5°	27.5	34.5	42.2	42.4	35.1	28.6	24.4	20.2
60°	11.4	17.0	23.0	22.3	15.1	8.7	4.8	1.0
62.5°	3.0	7.5	13.2	13.0	7.1	2.4	1.3	0.2
65°	0.0	0.3	0.7	0.7	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°	1.3	2.1	3.1	4.0	4.8	5.2	5.6	5.8
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: P709256

CATALOG NUMBER: DL2W-BB-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)