

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: P709246

Luminaire Tested: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

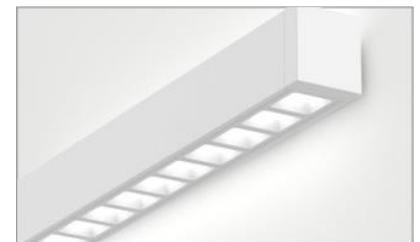
Test Information

Test Method: LM-79-2019
Report Number: P709246
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-075D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4191.4 lumens
Efficiency: N/A
Efficacy: 119.4 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

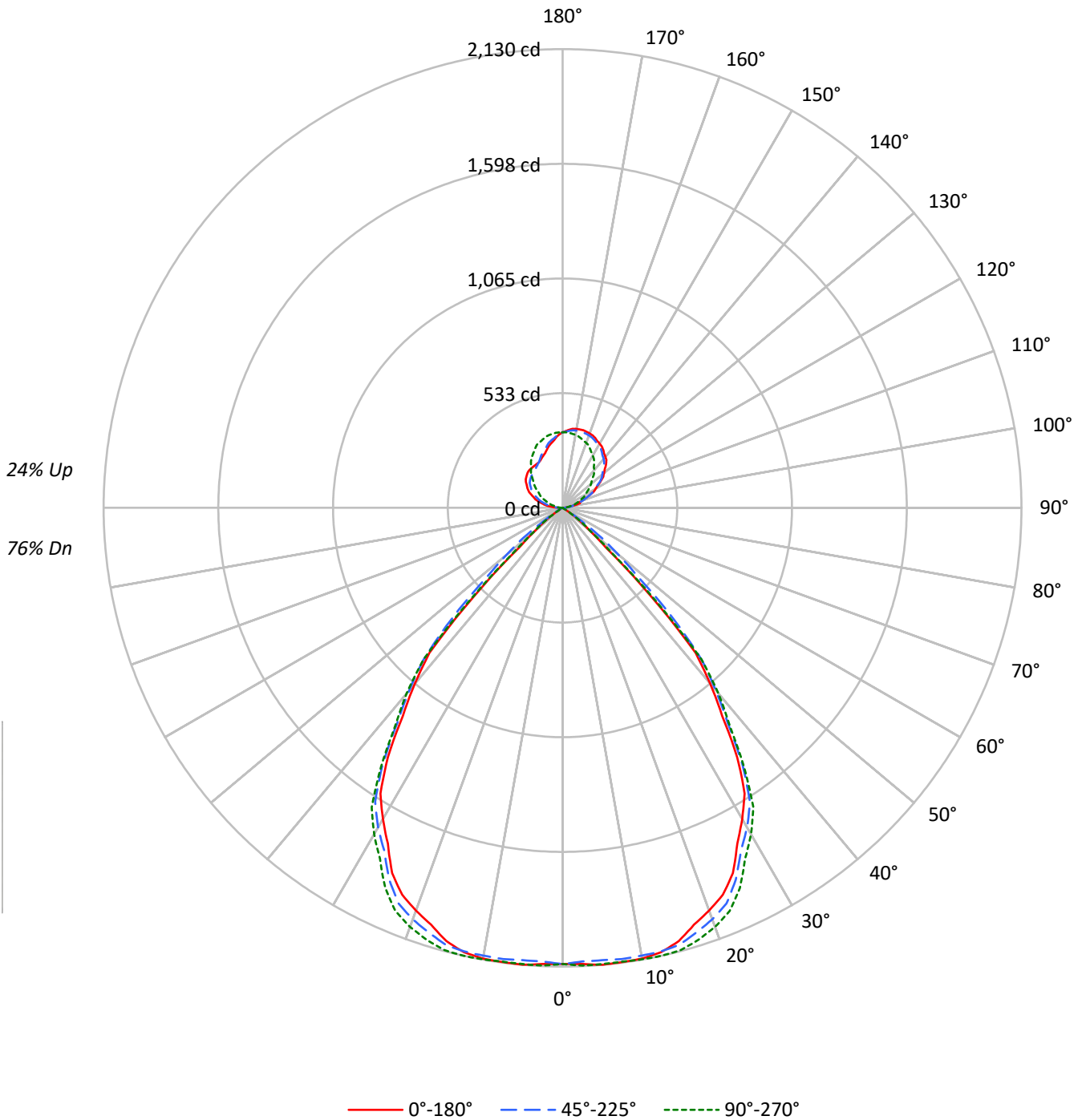
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709246

CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76		
1	106	103	100	98	101	99	96	94	90	88	86	82	81	80	75	74	73	70		
2	100	94	89	85	95	90	86	82	83	80	77	76	74	71	70	68	67	63		
3	93	86	80	75	89	82	77	73	76	72	69	70	67	64	65	63	60	58		
4	87	78	72	67	83	75	69	65	70	65	62	65	61	58	60	57	55	53		
5	81	71	65	60	78	69	63	58	64	59	56	60	56	53	56	53	50	48		
6	76	66	59	54	73	64	57	53	59	54	50	56	51	48	52	49	46	44		
7	71	60	54	49	68	59	52	48	55	50	46	52	47	44	49	45	42	40		
8	67	56	49	44	64	54	48	44	51	46	42	48	44	40	45	42	39	37		
9	63	52	45	41	60	50	44	40	47	42	38	45	40	37	42	38	36	34		
10	59	48	42	37	57	47	41	37	44	39	35	42	37	34	40	36	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34197	34197	34197	34197	34197
5°	34517	34172	34465	34172	34517
10°	34846	34617	34898	34617	34846
15°	34820	35095	35527	35095	34820
20°	34189	34928	35574	34928	34189
25°	33335	33903	34693	33903	33335
30°	31092	31928	32613	31928	31092
35°	27859	28707	28945	28707	27859
40°	22466	23334	23739	23334	22466
45°	13282	16511	14152	16511	13282
50°	4177	8442	4418	8442	4177
55°	1669	2968	1669	2968	1669
60°	36	806	103	806	36
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: 16570 cd/sqm

TEST NUMBER: P709246

CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	4.8
10°-20°	593.2	14.2
20°-30°	872.7	20.8
30°-40°	892.0	21.3
40°-50°	513.9	12.3
50°-60°	88.4	2.1
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	1.9	0.0
90°-100°	28.0	0.7
100°-110°	81.5	1.9
110°-120°	132.8	3.2
120°-130°	168.5	4.0
130°-140°	180.3	4.3
140°-150°	168.3	4.0
150°-160°	138.6	3.3
160°-170°	93.0	2.2
170°-180°	33.0	0.8
0°-30°	1668.5	39.8
0°-40°	2560.5	61.1
0°-60°	3162.8	75.5
0°-90°	3167.8	75.6
90°-120°	242.2	5.8
90°-150°	759.4	18.1
90°-180°	1024.0	24.4
0°-180°	4191.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2118	2118	2118	2118	2118	
5°	2130	2108	2126	2108	2130	203
15°	2083	2100	2125	2100	2083	585
25°	1871	1903	1947	1903	1871	852
35°	1413	1456	1468	1456	1413	867
45°	582	723	620	723	582	451
55°	59	105	59	105	59	61
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	7	7	1	10	17	3
95°	8	11	12	35	49	14
105°	84	62	52	94	115	78
115°	137	137	99	147	170	136
125°	217	211	147	183	207	193
135°	285	271	199	206	229	219
145°	329	318	255	219	235	206
155°	358	348	302	249	243	165
165°	373	364	334	292	280	105
175°	365	359	350	333	330	35
180°	351	351	351	351	351	

TEST NUMBER: P709246

CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0
2.5°	2119.7	2121.6	2123.5	2117.5	2108.8	2108.2	2115.8	2122.1	2124.7	2127.4	2124.7
5°	2129.7	2130.6	2131.6	2122.3	2109.6	2107.2	2115.2	2121.8	2124.2	2126.5	2124.2
7.5°	2127.1	2129.5	2131.9	2124.6	2114.1	2111.7	2117.4	2122.0	2123.6	2125.2	2123.6
10°	2125.4	2127.8	2130.2	2122.6	2111.8	2111.1	2120.5	2127.7	2128.2	2128.6	2128.2
12.5°	2113.6	2117.8	2122.1	2116.7	2108.1	2111.2	2125.9	2136.2	2133.2	2130.3	2133.2
15°	2083.1	2089.2	2095.3	2095.8	2094.4	2104.7	2126.9	2141.5	2133.5	2125.4	2133.5
17.5°	2029.7	2038.3	2047.0	2053.0	2058.2	2075.6	2105.0	2124.3	2113.0	2101.7	2113.0
20°	1989.8	1997.4	2004.9	2013.5	2022.4	2043.2	2075.6	2096.7	2083.5	2070.4	2083.5
22.5°	1944.9	1950.9	1957.0	1966.9	1978.1	1999.2	2030.2	2050.4	2038.3	2026.3	2038.3
25°	1871.2	1874.5	1877.8	1884.9	1893.4	1912.7	1942.9	1963.5	1955.5	1947.4	1955.5
27.5°	1756.7	1761.0	1765.2	1774.2	1784.7	1801.3	1823.9	1840.3	1838.0	1835.8	1838.0
30°	1667.7	1675.7	1683.7	1694.2	1705.5	1719.6	1736.6	1749.3	1749.3	1749.3	1749.3
32.5°	1572.8	1580.8	1588.8	1600.1	1612.6	1624.8	1636.9	1646.2	1647.3	1648.4	1647.3
35°	1413.4	1420.5	1427.6	1438.5	1450.8	1462.1	1472.4	1478.9	1473.7	1468.5	1473.7
37.5°	1217.6	1223.6	1229.5	1240.9	1254.1	1264.6	1272.4	1277.7	1275.8	1273.8	1275.8
40°	1065.9	1074.9	1083.8	1093.1	1102.5	1111.7	1120.6	1127.2	1126.8	1126.3	1126.8
42.5°	914.2	917.8	921.5	933.7	948.8	960.6	969.2	973.3	963.7	954.2	963.7
45°	581.7	630.2	678.7	703.5	720.5	725.7	719.1	703.7	661.7	619.8	661.7
47.5°	274.0	325.3	376.7	425.7	474.0	482.8	452.0	415.9	363.7	311.5	363.7
50°	166.3	183.8	201.2	259.6	331.6	340.6	286.4	238.0	207.0	175.9	207.0
52.5°	112.1	122.0	131.9	174.5	228.1	231.2	183.9	144.9	131.1	117.4	131.1
55°	59.3	62.2	65.0	82.6	105.2	105.7	84.1	66.9	63.1	59.3	63.1
57.5°	22.3	26.9	31.5	38.6	46.6	46.4	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	1.5	1.5	1.5	1.5	1.5	1.3	1.3	0.8	0.6	0.2	0.4
90°	7.4	7.4	7.4	7.4	7.4	6.3	6.3	4.2	3.2	1.1	2.1
92.5°	9.1	9.1	9.1	9.1	8.2	7.2	6.3	5.9	6.6	3.6	7.2
95°	8.5	8.5	8.5	8.5	9.5	12.7	16.9	18.0	12.7	11.6	15.9
97.5°	19.2	20.5	21.8	25.8	32.3	33.6	31.9	22.4	22.2	21.1	28.5
100°	37.0	39.1	41.2	44.4	51.8	41.2	32.8	31.7	30.6	29.6	37.0
102.5°	61.5	62.8	65.7	65.5	50.9	45.4	43.8	41.8	39.1	38.0	46.3
105°	84.5	79.3	69.7	61.3	62.4	62.4	62.4	57.1	52.8	51.8	60.2
107.5°	81.2	80.1	81.2	83.1	84.1	83.9	81.4	74.6	67.2	65.7	74.2
110°	97.2	96.2	97.2	98.3	99.3	98.3	94.1	85.6	78.2	75.0	83.5

TEST NUMBER: P709246

CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	111.6	112.2	113.3	114.3	114.6	113.5	108.4	98.3	88.3	84.3	91.9
115°	137.4	137.4	137.4	138.4	138.4	136.3	128.9	117.3	104.6	99.3	104.6
117.5°	162.3	161.5	161.5	161.5	161.5	157.9	149.2	135.3	121.1	113.3	118.2
120°	177.5	177.5	177.5	177.5	177.5	172.3	162.7	148.0	132.1	122.6	125.8
122.5°	193.6	192.8	193.6	192.8	191.9	186.6	175.4	160.6	143.9	131.9	133.4
125°	216.6	216.6	214.5	214.5	213.5	208.2	195.5	179.7	161.7	146.9	145.8
127.5°	238.0	238.8	236.1	235.0	233.3	225.9	214.5	199.7	178.6	161.3	156.4
130°	251.5	251.5	250.5	249.4	245.2	237.8	227.2	212.4	191.3	172.3	164.9
132.5°	265.9	265.9	264.8	262.1	257.0	250.5	239.9	225.1	203.1	183.3	173.3
135°	285.3	284.3	282.2	280.1	274.8	267.4	257.9	243.1	220.9	198.7	187.1
137.5°	301.2	300.1	298.2	294.2	290.0	282.8	273.3	259.3	238.6	216.2	200.2
140°	309.6	308.6	307.5	304.4	300.1	293.8	284.3	269.5	250.5	227.2	210.3
142.5°	317.3	317.0	315.1	312.8	308.6	301.4	293.6	279.6	260.6	239.1	220.5
145°	328.7	328.7	327.6	325.5	321.3	313.9	307.5	294.9	275.8	254.7	235.7
147.5°	338.6	338.8	337.5	335.4	331.4	325.1	318.9	306.3	289.8	270.8	250.9
150°	344.5	345.6	343.5	341.4	338.2	331.8	326.6	313.9	299.1	280.1	261.0
152.5°	349.6	351.5	349.4	348.1	344.1	337.8	332.5	320.6	306.7	290.2	271.2
155°	358.3	359.3	357.2	356.1	350.9	345.6	341.4	329.7	317.0	302.2	286.4
157.5°	364.4	365.4	364.4	362.3	357.0	351.9	347.7	338.2	326.8	314.5	299.1
160°	367.8	368.8	367.8	365.7	360.4	356.1	351.9	342.4	331.8	321.3	307.5
162.5°	370.3	371.4	370.3	368.2	362.9	358.7	355.3	346.6	336.9	326.3	314.3
165°	373.1	374.1	373.1	369.9	365.7	361.4	358.3	350.9	342.4	334.0	325.5
167.5°	372.8	375.0	373.1	371.8	365.7	363.5	360.6	354.2	347.3	340.3	332.3
170°	372.0	374.1	373.1	370.9	365.7	363.5	361.4	355.1	349.8	344.5	338.2
172.5°	370.3	371.6	370.5	369.3	364.0	361.9	360.6	355.9	351.5	347.1	341.6
175°	364.6	366.7	365.7	364.6	359.3	358.3	359.3	355.1	351.9	349.8	346.6
177.5°	356.8	358.5	357.6	356.8	354.2	353.4	355.1	353.4	351.7	350.9	349.2
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

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CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0	2118.0
2.5°	2122.1	2115.8	2108.2	2108.8	2117.5	2123.5	2121.6	2119.7
5°	2121.8	2115.2	2107.2	2109.6	2122.3	2131.6	2130.6	2129.7
7.5°	2122.0	2117.4	2111.7	2114.1	2124.6	2131.9	2129.5	2127.1
10°	2127.7	2120.5	2111.1	2111.8	2122.6	2130.2	2127.8	2125.4
12.5°	2136.2	2125.9	2111.2	2108.1	2116.7	2122.1	2117.8	2113.6
15°	2141.5	2126.9	2104.7	2094.4	2095.8	2095.3	2089.2	2083.1
17.5°	2124.3	2105.0	2075.6	2058.2	2053.0	2047.0	2038.3	2029.7
20°	2096.7	2075.6	2043.2	2022.4	2013.5	2004.9	1997.4	1989.8
22.5°	2050.4	2030.2	1999.2	1978.1	1966.9	1957.0	1950.9	1944.9
25°	1963.5	1942.9	1912.7	1893.4	1884.9	1877.8	1874.5	1871.2
27.5°	1840.3	1823.9	1801.3	1784.7	1774.2	1765.2	1761.0	1756.7
30°	1749.3	1736.6	1719.6	1705.5	1694.2	1683.7	1675.7	1667.7
32.5°	1646.2	1636.9	1624.8	1612.6	1600.1	1588.8	1580.8	1572.8
35°	1478.9	1472.4	1462.1	1450.8	1438.5	1427.6	1420.5	1413.4
37.5°	1277.7	1272.4	1264.6	1254.1	1240.9	1229.5	1223.6	1217.6
40°	1127.2	1120.6	1111.7	1102.5	1093.1	1083.8	1074.9	1065.9
42.5°	973.3	969.2	960.6	948.8	933.7	921.5	917.8	914.2
45°	703.7	719.1	725.7	720.5	703.5	678.7	630.2	581.7
47.5°	415.9	452.0	482.8	474.0	425.7	376.7	325.3	274.0
50°	238.0	286.4	340.6	331.6	259.6	201.2	183.8	166.3
52.5°	144.9	183.9	231.2	228.1	174.5	131.9	122.0	112.1
55°	66.9	84.1	105.7	105.2	82.6	65.0	62.2	59.3
57.5°	30.3	37.9	46.4	46.6	38.6	31.5	26.9	22.3
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	0.2
65°	0.0	0.4	0.8	0.8	0.4	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°	0.8	1.3	1.7	2.1	2.7	3.0	3.2	3.4
90°	4.2	6.3	8.5	10.6	13.7	14.8	15.9	16.9
92.5°	9.3	13.1	16.9	19.9	23.9	26.6	26.8	27.9
95°	22.2	27.5	32.8	38.0	43.3	47.6	48.6	48.6
97.5°	35.3	43.5	50.5	56.9	63.0	66.6	68.9	71.0
100°	45.4	52.8	62.4	68.7	74.0	79.3	82.4	84.5
102.5°	55.6	63.0	72.5	80.5	88.3	91.9	96.0	97.2
105°	70.8	79.3	88.8	98.3	104.6	109.9	113.1	115.2
107.5°	85.0	95.5	104.6	113.5	120.1	126.4	130.4	131.7
110°	95.1	105.7	117.3	123.6	131.0	137.4	140.6	142.7

TEST NUMBER: P709246

CATALOG NUMBER: DL2W-BB-M-025U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	104.4	115.8	127.5	135.5	142.9	149.2	152.4	154.5
115°	117.3	128.9	140.6	153.2	160.6	164.9	168.0	170.1
117.5°	128.9	141.6	153.2	164.7	173.1	176.5	178.6	179.9
120°	137.4	150.1	161.7	172.3	180.7	184.9	187.1	189.2
122.5°	144.1	156.8	168.5	179.0	187.5	192.6	195.5	196.8
125°	154.3	165.9	178.6	188.1	196.6	202.9	206.1	207.1
127.5°	162.3	174.4	187.1	197.0	205.4	210.5	213.7	215.6
130°	169.1	178.6	191.3	202.9	211.4	215.6	218.8	219.8
132.5°	175.9	183.7	195.5	207.1	215.6	220.7	223.8	224.9
135°	184.9	189.2	199.7	211.4	219.8	225.1	228.3	229.3
137.5°	196.4	197.8	203.8	214.7	223.4	228.7	231.7	232.7
140°	204.0	202.9	207.1	215.6	225.1	230.4	232.5	233.6
142.5°	210.7	208.8	210.5	217.3	225.1	230.4	233.3	233.6
145°	224.0	218.8	216.6	220.9	226.2	231.4	234.6	234.6
147.5°	236.9	230.4	225.5	226.4	229.1	232.9	234.8	235.0
150°	246.2	238.8	231.4	231.4	232.5	234.6	235.7	236.7
152.5°	256.4	247.3	239.1	237.4	236.7	237.1	239.1	238.4
155°	270.5	260.0	250.5	247.3	245.2	244.1	244.1	243.1
157.5°	284.5	274.8	263.4	258.9	255.5	253.6	252.4	251.3
160°	293.8	283.2	272.7	267.4	263.1	262.1	260.0	258.9
162.5°	303.1	291.7	282.0	275.8	271.6	270.5	269.3	267.4
165°	314.9	306.5	294.9	288.5	286.4	283.2	282.2	280.1
167.5°	325.9	318.9	309.6	303.5	299.5	297.4	296.3	294.2
170°	331.8	326.6	318.1	312.8	309.6	307.5	306.5	304.4
172.5°	336.9	332.5	325.7	321.3	318.9	317.7	315.8	314.5
175°	343.5	341.4	335.0	331.8	332.9	331.8	331.8	329.7
177.5°	348.3	347.5	344.1	342.4	344.9	344.1	344.1	341.6
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

(END OF REPORT)