

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: P709249

Luminaire Tested: DL2W-BB-M-025U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709249  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, G3-2104-222-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-025U-100D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5267.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

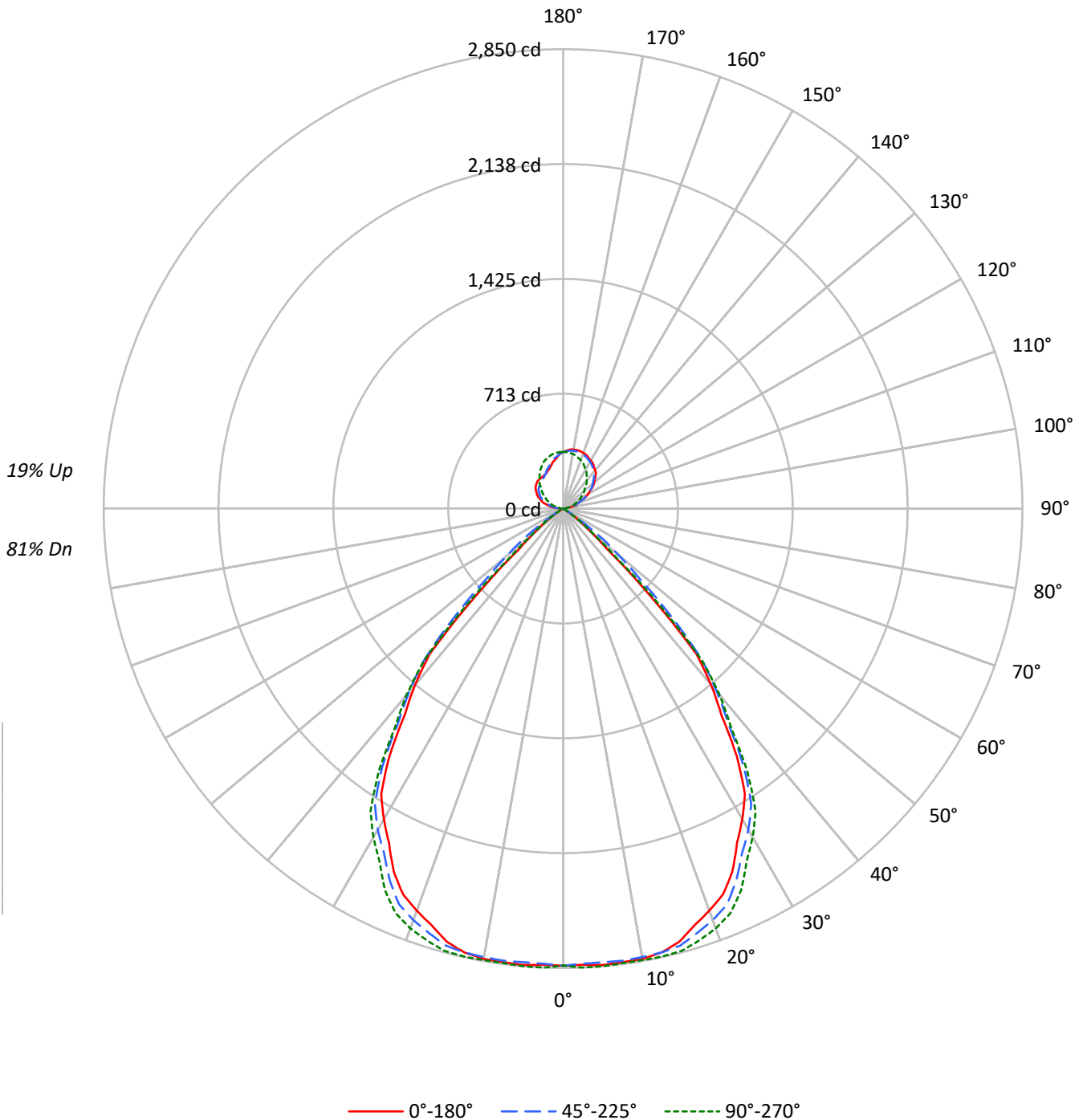
Input Watts (W): 45.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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CATALOG NUMBER: DL2W-BB-M-025U-100D-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				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	50	30	10
RCR																				
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	81	
1	108	104	102	99	103	100	98	96	93	91	89	86	84	83	79	78	77	77	74	
2	101	95	91	87	97	92	88	84	85	82	79	79	77	75	74	72	70	70	68	
3	94	87	81	77	91	84	79	75	79	74	71	74	70	67	69	66	64	64	62	
4	88	80	73	68	85	77	71	67	72	68	64	68	64	61	64	61	58	58	56	
5	83	73	66	61	79	71	65	60	67	62	58	63	59	55	59	56	53	53	51	
6	77	67	60	55	74	65	59	54	62	56	52	58	54	50	55	52	49	49	47	
7	73	62	55	50	70	60	54	49	57	52	48	54	50	46	51	48	45	45	43	
8	68	57	50	46	66	56	49	45	53	48	44	50	46	42	48	44	41	41	39	
9	64	53	46	42	62	52	46	41	49	44	40	47	42	39	45	41	38	38	36	
10	60	49	43	38	58	48	42	38	46	41	37	44	39	36	42	38	35	35	33	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	45786	45786	45786	45786	45786
5°	46065	45790	46185	45790	46065
10°	46509	46320	46632	46320	46509
15°	46514	46918	47490	46918	46514
20°	45603	46672	47611	46672	45603
25°	44274	45311	46545	45311	44274
30°	41460	42873	43876	42873	41460
35°	37067	38565	39309	38565	37067
40°	30119	31322	31889	31322	30119
45°	17420	21864	19409	21864	17420
50°	5657	11431	6192	11431	5657
55°	2213	4073	2153	4073	2213
60°	36	1124	171	1124	36
65°	0	73	0	73	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: 21950 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.0	5.1
10°-20°	792.5	15.0
20°-30°	1168.2	22.2
30°-40°	1196.2	22.7
40°-50°	689.3	13.1
50°-60°	120.5	2.3
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	1.9	0.0
90°-100°	28.0	0.5
100°-110°	81.5	1.5
110°-120°	132.8	2.5
120°-130°	168.5	3.2
130°-140°	180.3	3.4
140°-150°	168.3	3.2
150°-160°	138.6	2.6
160°-170°	93.0	1.8
170°-180°	33.0	0.6
0°-30°	2231.7	42.4
0°-40°	3428.0	65.1
0°-60°	4237.8	80.4
0°-90°	4244.3	80.6
90°-120°	242.2	4.6
90°-150°	759.4	14.4
90°-180°	1024.0	19.4
0°-180°	5267.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2836	2836	2836	2836	2836	
5°	2842	2825	2850	2825	2842	271
15°	2783	2807	2841	2807	2783	781
25°	2485	2543	2613	2543	2485	1134
35°	1881	1957	1994	1957	1881	1155
45°	763	958	850	958	763	600
55°	79	145	76	145	79	81
65°	0	2	0	2	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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	2833.2	2837.8	2842.3	2835.8	2825.6	2825.4	2835.2	2843.4	2846.8	2850.2	2846.8
5°	2842.2	2846.9	2851.6	2841.4	2826.3	2824.2	2835.1	2843.9	2846.8	2849.6	2846.8
7.5°	2838.5	2843.9	2849.3	2841.7	2829.8	2828.1	2836.5	2843.0	2843.6	2844.3	2843.6
10°	2836.8	2841.1	2845.3	2837.2	2824.9	2825.6	2839.3	2849.0	2846.6	2844.3	2846.6
12.5°	2821.5	2827.7	2833.8	2828.1	2818.5	2823.6	2843.3	2856.7	2851.4	2846.0	2851.4
15°	2782.7	2790.2	2797.8	2799.7	2799.7	2814.1	2842.9	2861.9	2851.5	2841.1	2851.5
17.5°	2711.0	2721.2	2731.3	2740.9	2750.5	2773.4	2809.6	2833.8	2821.5	2809.2	2821.5
20°	2654.1	2665.0	2675.8	2688.8	2702.5	2730.1	2771.7	2799.3	2785.1	2771.0	2785.1
22.5°	2592.0	2602.9	2613.8	2628.2	2643.8	2672.7	2715.0	2743.3	2729.5	2715.7	2729.5
25°	2485.2	2497.4	2509.7	2520.2	2530.1	2556.8	2600.3	2630.6	2621.6	2612.7	2621.6
27.5°	2338.5	2349.6	2360.6	2376.4	2393.8	2419.4	2453.1	2477.0	2471.8	2466.5	2471.8
30°	2223.8	2237.5	2251.2	2268.8	2287.7	2311.5	2340.3	2361.0	2357.2	2353.4	2357.2
32.5°	2099.7	2112.6	2125.6	2143.3	2162.5	2182.6	2203.5	2219.5	2221.0	2222.5	2221.0
35°	1880.6	1894.8	1908.9	1928.1	1948.8	1964.4	1974.8	1983.9	1989.1	1994.3	1989.1
37.5°	1614.3	1629.2	1644.0	1661.2	1679.1	1693.3	1703.7	1711.7	1712.6	1713.6	1712.6
40°	1429.0	1439.0	1448.9	1463.4	1479.5	1492.7	1503.1	1511.1	1512.0	1513.0	1512.0
42.5°	1223.3	1229.5	1235.6	1252.0	1271.9	1288.1	1300.8	1305.8	1287.8	1269.9	1287.8
45°	762.9	832.3	901.7	933.9	953.8	961.3	956.6	941.6	895.8	850.0	895.8
47.5°	362.1	435.1	508.1	574.6	638.9	650.0	607.9	561.0	499.8	438.6	499.8
50°	225.2	250.3	275.3	352.7	447.7	462.5	397.4	337.2	291.8	246.5	291.8
52.5°	151.3	163.9	176.4	234.9	308.6	315.4	255.1	204.5	182.6	160.6	182.6
55°	78.6	82.4	86.2	111.6	144.1	145.3	115.1	90.7	83.6	76.5	83.6
57.5°	26.6	34.0	41.5	52.3	64.2	64.0	51.8	41.0	34.2	27.4	34.2
60°	1.1	6.3	11.5	22.0	34.2	35.4	25.5	16.6	11.0	5.3	11.0
62.5°	1.1	2.1	3.1	10.1	18.9	19.4	11.3	4.9	3.4	1.9	3.4
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0	0.5
67.5°	0.0	0.0	0.0	0.3	0.7	0.8	0.8	0.8	0.4	0.0	0.4
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

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**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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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	2843.4	2835.2	2825.4	2825.6	2835.8	2842.3	2837.8	2833.2
5°	2843.9	2835.1	2824.2	2826.3	2841.4	2851.6	2846.9	2842.2
7.5°	2843.0	2836.5	2828.1	2829.8	2841.7	2849.3	2843.9	2838.5
10°	2849.0	2839.3	2825.6	2824.9	2837.2	2845.3	2841.1	2836.8
12.5°	2856.7	2843.3	2823.6	2818.5	2828.1	2833.8	2827.7	2821.5
15°	2861.9	2842.9	2814.1	2799.7	2799.7	2797.8	2790.2	2782.7
17.5°	2833.8	2809.6	2773.4	2750.5	2740.9	2731.3	2721.2	2711.0
20°	2799.3	2771.7	2730.1	2702.5	2688.8	2675.8	2665.0	2654.1
22.5°	2743.3	2715.0	2672.7	2643.8	2628.2	2613.8	2602.9	2592.0
25°	2630.6	2600.3	2556.8	2530.1	2520.2	2509.7	2497.4	2485.2
27.5°	2477.0	2453.1	2419.4	2393.8	2376.4	2360.6	2349.6	2338.5
30°	2361.0	2340.3	2311.5	2287.7	2268.8	2251.2	2237.5	2223.8
32.5°	2219.5	2203.5	2182.6	2162.5	2143.3	2125.6	2112.6	2099.7
35°	1983.9	1974.8	1964.4	1948.8	1928.1	1908.9	1894.8	1880.6
37.5°	1711.7	1703.7	1693.3	1679.1	1661.2	1644.0	1629.2	1614.3
40°	1511.1	1503.1	1492.7	1479.5	1463.4	1448.9	1439.0	1429.0
42.5°	1305.8	1300.8	1288.1	1271.9	1252.0	1235.6	1229.5	1223.3
45°	941.6	956.6	961.3	953.8	933.9	901.7	832.3	762.9
47.5°	561.0	607.9	650.0	638.9	574.6	508.1	435.1	362.1
50°	337.2	397.4	462.5	447.7	352.7	275.3	250.3	225.2
52.5°	204.5	255.1	315.4	308.6	234.9	176.4	163.9	151.3
55°	90.7	115.1	145.3	144.1	111.6	86.2	82.4	78.6
57.5°	41.0	51.8	64.0	64.2	52.3	41.5	34.0	26.6
60°	16.6	25.5	35.4	34.2	22.0	11.5	6.3	1.1
62.5°	4.9	11.3	19.4	18.9	10.1	3.1	2.1	1.1
65°	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.8	0.8	0.8	0.7	0.3	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: P709249

CATALOG NUMBER: DL2W-BB-M-025U-100D-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)