

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: P709261

Luminaire Tested: DL2W-BB-M-050U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709261
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-050U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6236.8 lumens
Efficiency: N/A
Efficacy: 117.7 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

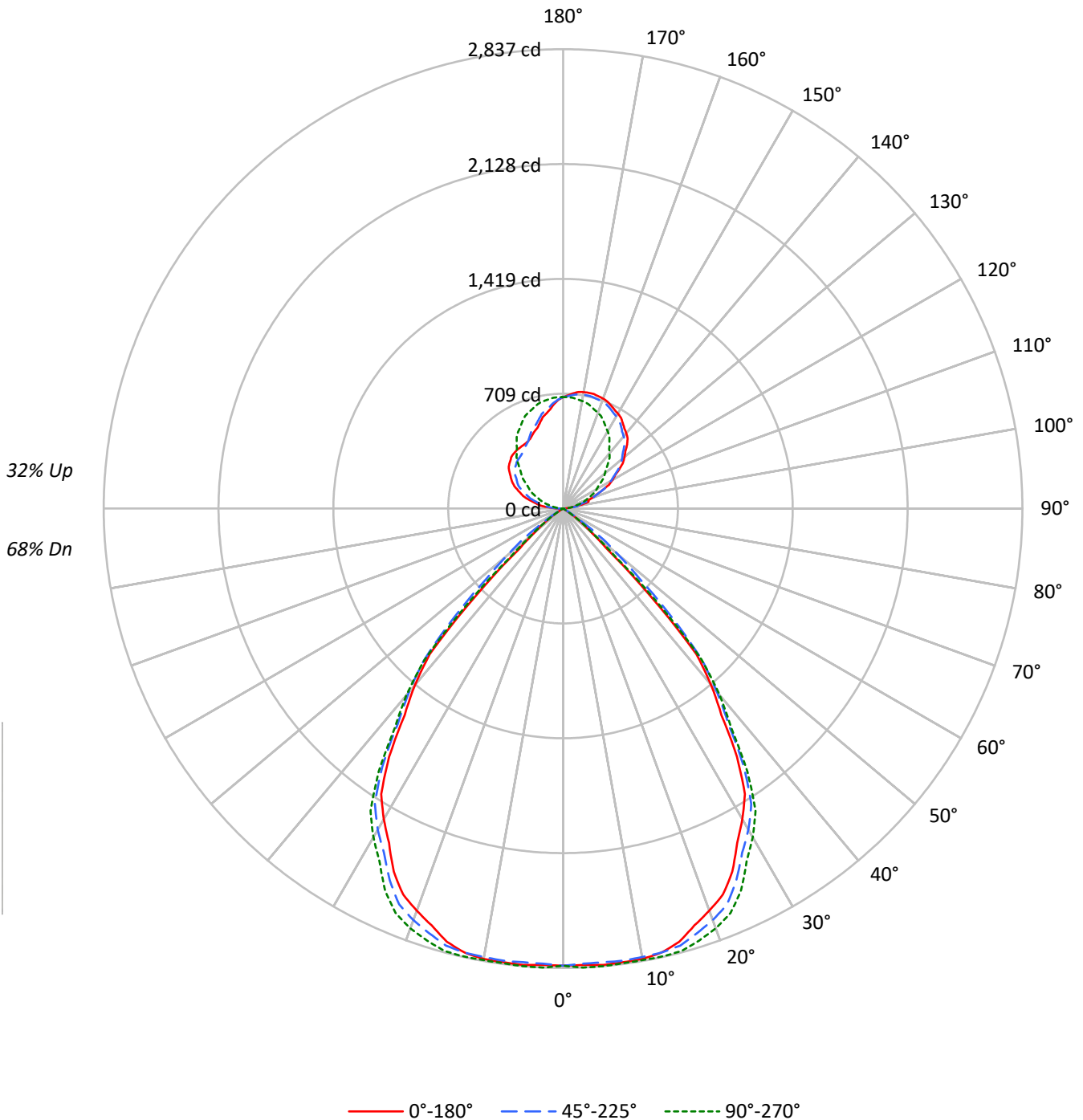
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68	68	68	68	
1	104	101	98	95	99	96	93	91	86	84	82	77	75	74	68	67	66	62	62	62	62	
2	97	92	87	83	92	87	83	79	79	75	73	71	68	66	63	62	60	57	57	57	57	
3	91	83	77	72	86	79	74	70	72	68	65	65	62	60	59	57	55	52	52	52	52	
4	85	76	69	64	80	72	67	62	66	61	58	60	57	54	55	52	50	47	47	47	47	
5	79	69	62	57	75	66	60	55	61	56	52	56	52	49	51	48	45	43	43	43	43	
6	74	63	56	51	70	61	55	50	56	51	47	51	47	44	47	44	42	39	39	39	39	
7	69	58	51	46	66	56	50	45	52	47	43	48	44	40	44	41	38	36	36	36	36	
8	65	54	47	42	62	52	45	41	48	43	39	44	40	37	41	38	35	33	33	33	33	
9	61	50	43	38	58	48	42	38	45	39	36	41	37	34	38	35	32	30	30	30	30	
10	57	46	40	35	54	45	38	34	41	36	33	39	34	31	36	32	30	28	28	28	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45580	45580	45580	45580	45580
5°	45858	45584	45977	45584	45858
10°	46301	46112	46422	46112	46301
15°	46303	46707	47276	46707	46303
20°	45398	46463	47397	46463	45398
25°	44074	45108	46335	45108	44074
30°	41273	42680	43678	42680	41273
35°	36902	38393	39131	38393	36902
40°	29984	31181	31746	31181	29984
45°	17340	21766	19322	21766	17340
50°	5632	11380	6164	11380	5632
55°	2204	4056	2145	4056	2204
60°	36	1121	171	1121	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: 21852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	4.3
10°-20°	789.0	12.7
20°-30°	1162.9	18.6
30°-40°	1190.8	19.1
40°-50°	686.2	11.0
50°-60°	120.0	1.9
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	3.7	0.1
90°-100°	54.9	0.9
100°-110°	159.9	2.6
110°-120°	260.7	4.2
120°-130°	331.0	5.3
130°-140°	354.0	5.7
140°-150°	330.6	5.3
150°-160°	272.2	4.4
160°-170°	182.5	2.9
170°-180°	64.8	1.0
0°-30°	2221.7	35.6
0°-40°	3412.5	54.7
0°-60°	4218.7	67.6
0°-90°	4227.0	67.8
90°-120°	475.5	7.6
90°-150°	1491.1	23.9
90°-180°	2011.0	32.2
0°-180°	6236.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2823	2823	2823	2823	2823	
5°	2829	2813	2837	2813	2829	270
15°	2770	2794	2828	2794	2770	777
25°	2474	2532	2601	2532	2474	1129
35°	1872	1948	1985	1948	1872	1150
45°	759	953	846	953	759	597
55°	78	144	76	144	78	81
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	15	14	2	20	32	7
95°	16	21	21	71	96	27
105°	164	123	100	182	225	153
115°	267	269	193	289	333	267
125°	425	412	288	360	407	379
135°	559	532	392	405	451	429
145°	644	624	500	430	461	403
155°	702	684	594	489	478	324
165°	732	713	656	573	550	207
175°	714	705	687	657	647	69
180°	688	688	688	688	688	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2820.5	2825.0	2829.5	2823.0	2812.9	2812.7	2822.5	2830.7	2834.0	2837.4	2834.0
5°	2829.4	2834.1	2838.8	2828.7	2813.6	2811.5	2822.3	2831.1	2834.0	2836.8	2834.0
7.5°	2825.8	2831.1	2836.5	2829.0	2817.1	2815.4	2823.7	2830.2	2830.8	2831.5	2830.8
10°	2824.1	2828.3	2832.6	2824.4	2812.2	2812.9	2826.6	2836.2	2833.8	2831.5	2833.8
12.5°	2808.9	2815.0	2821.1	2815.4	2805.8	2810.9	2830.5	2843.9	2838.5	2833.2	2838.5
15°	2770.1	2777.7	2785.2	2787.1	2787.1	2801.4	2830.1	2849.0	2838.7	2828.3	2838.7
17.5°	2698.9	2708.9	2719.0	2728.6	2738.1	2760.9	2797.0	2821.0	2808.8	2796.6	2808.8
20°	2642.2	2653.0	2663.8	2676.7	2690.4	2717.9	2759.2	2786.7	2772.6	2758.5	2772.6
22.5°	2580.4	2591.2	2602.0	2616.4	2631.9	2660.7	2702.8	2731.0	2717.2	2703.5	2717.2
25°	2474.0	2486.2	2498.4	2508.9	2518.8	2545.3	2588.6	2618.8	2609.8	2600.9	2609.8
27.5°	2328.0	2339.0	2350.0	2365.8	2383.1	2408.5	2442.0	2465.9	2460.6	2455.4	2460.6
30°	2213.8	2227.4	2241.1	2258.6	2277.4	2301.1	2329.8	2350.4	2346.6	2342.8	2346.6
32.5°	2090.3	2103.1	2116.0	2133.6	2152.8	2172.8	2193.6	2209.5	2211.0	2212.5	2211.0
35°	1872.2	1886.3	1900.4	1919.4	1940.1	1955.6	1965.9	1975.0	1980.2	1985.3	1980.2
37.5°	1607.1	1621.8	1636.6	1653.7	1671.6	1685.7	1696.0	1704.0	1704.9	1705.9	1704.9
40°	1422.6	1432.5	1442.4	1456.8	1472.8	1486.0	1496.3	1504.3	1505.2	1506.2	1505.2
42.5°	1217.9	1224.0	1230.1	1246.4	1266.2	1282.3	1294.9	1299.9	1282.0	1264.2	1282.0
45°	759.4	828.5	897.6	929.7	949.5	957.0	952.3	937.4	891.8	846.2	891.8
47.5°	360.5	433.1	505.8	572.0	636.0	647.1	605.2	558.5	497.5	436.6	497.5
50°	224.2	249.2	274.1	351.2	445.6	460.5	395.6	335.6	290.5	245.4	290.5
52.5°	150.6	163.1	175.6	233.8	307.3	314.0	254.0	203.6	181.7	159.9	181.7
55°	78.3	82.0	85.8	111.1	143.5	144.7	114.6	90.3	83.2	76.2	83.2
57.5°	26.4	33.9	41.3	52.0	63.9	63.7	51.6	40.8	34.1	27.3	34.1
60°	1.1	6.2	11.4	21.9	34.1	35.3	25.4	16.6	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.9	19.3	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°	3.0	3.0	3.0	3.0	2.7	2.7	2.3	1.7	1.1	0.4	1.1
90°	14.8	14.8	14.8	14.8	13.7	13.7	11.6	8.5	5.3	2.1	5.3
92.5°	18.2	18.2	17.3	17.3	16.3	14.6	12.5	11.8	12.9	7.2	13.7
95°	15.9	15.9	15.9	15.9	18.0	24.3	33.8	35.9	24.3	21.1	29.6
97.5°	37.4	39.9	43.5	52.4	61.7	66.6	62.6	45.4	44.0	42.1	56.2
100°	77.1	77.1	82.4	88.8	101.5	83.5	63.4	62.4	59.2	58.1	74.0
102.5°	122.0	124.5	127.2	128.5	99.8	90.3	87.1	81.0	76.1	75.0	91.7
105°	163.8	156.4	134.2	121.5	121.5	123.6	121.5	114.1	103.6	100.4	118.4
107.5°	160.2	157.0	159.8	161.1	166.1	164.7	160.2	146.7	131.9	129.1	145.0
110°	188.1	189.2	190.2	192.3	196.6	193.4	188.1	171.2	152.2	146.9	162.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	221.1	220.5	223.2	224.5	224.5	223.0	214.3	193.2	172.5	166.3	180.5
115°	267.4	269.5	270.5	271.6	270.5	268.4	252.6	229.3	204.0	193.4	206.1
117.5°	320.6	315.8	317.3	318.1	318.7	311.1	293.8	266.3	236.9	221.3	231.0
120°	351.9	348.8	347.7	347.7	346.6	338.2	319.2	291.7	258.9	239.9	246.2
122.5°	379.8	379.2	379.0	378.1	377.9	366.1	345.4	316.2	282.6	259.3	261.5
125°	424.8	425.9	422.7	418.5	417.4	406.9	384.7	354.0	318.1	288.5	285.3
127.5°	467.5	469.7	466.3	463.9	458.2	443.7	422.5	391.9	351.7	318.5	308.2
130°	494.6	496.7	492.5	489.3	481.9	468.2	447.0	416.4	376.2	337.1	323.4
132.5°	521.6	522.1	517.8	513.8	505.6	491.8	470.7	440.9	398.2	359.1	341.1
135°	559.1	560.1	554.8	549.5	536.9	526.3	506.2	476.6	433.3	392.1	367.8
137.5°	589.9	590.1	585.5	577.7	569.2	555.7	537.1	509.2	469.2	424.8	394.0
140°	607.7	608.7	602.4	597.1	588.6	576.0	559.1	529.5	490.4	446.0	414.3
142.5°	622.9	623.9	619.3	614.0	605.6	592.9	577.7	549.8	511.5	468.0	433.7
145°	643.6	646.8	642.5	637.3	629.9	618.2	602.4	577.0	542.1	499.9	461.8
147.5°	665.6	665.8	662.6	659.5	651.0	638.5	627.1	601.8	568.6	531.4	491.6
150°	677.4	678.5	675.3	672.1	663.7	652.1	641.5	616.1	585.5	551.7	513.6
152.5°	687.6	689.5	687.1	683.1	675.5	663.1	653.3	629.7	601.5	569.4	533.1
155°	701.7	704.9	702.8	698.6	690.1	678.5	669.0	648.9	622.5	593.9	561.2
157.5°	715.3	718.2	715.9	710.8	702.2	691.8	682.7	663.7	641.3	616.3	586.3
160°	722.9	725.0	721.8	717.6	708.1	698.6	691.2	672.1	653.1	629.9	602.4
162.5°	727.1	730.1	726.9	721.8	712.3	703.6	697.1	679.7	661.6	640.9	616.8
165°	732.4	733.4	731.3	727.1	716.5	709.1	703.8	690.1	673.2	656.3	637.3
167.5°	732.0	736.2	733.0	729.0	717.6	712.3	707.4	695.2	682.7	668.5	654.4
170°	730.3	734.5	731.3	728.2	717.6	712.3	709.1	698.6	686.9	675.3	663.7
172.5°	726.0	729.4	727.1	723.9	714.2	709.8	708.3	699.4	689.5	680.4	670.4
175°	714.4	718.6	717.6	714.4	706.0	703.8	704.9	698.6	692.2	686.9	679.5
177.5°	699.8	704.1	702.4	700.7	694.8	693.9	697.3	693.9	690.5	688.8	685.5
180°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2830.7	2822.5	2812.7	2812.9	2823.0	2829.5	2825.0	2820.5
5°	2831.1	2822.3	2811.5	2813.6	2828.7	2838.8	2834.1	2829.4
7.5°	2830.2	2823.7	2815.4	2817.1	2829.0	2836.5	2831.1	2825.8
10°	2836.2	2826.6	2812.9	2812.2	2824.4	2832.6	2828.3	2824.1
12.5°	2843.9	2830.5	2810.9	2805.8	2815.4	2821.1	2815.0	2808.9
15°	2849.0	2830.1	2801.4	2787.1	2787.1	2785.2	2777.7	2770.1
17.5°	2821.0	2797.0	2760.9	2738.1	2728.6	2719.0	2708.9	2698.9
20°	2786.7	2759.2	2717.9	2690.4	2676.7	2663.8	2653.0	2642.2
22.5°	2731.0	2702.8	2660.7	2631.9	2616.4	2602.0	2591.2	2580.4
25°	2618.8	2588.6	2545.3	2518.8	2508.9	2498.4	2486.2	2474.0
27.5°	2465.9	2442.0	2408.5	2383.1	2365.8	2350.0	2339.0	2328.0
30°	2350.4	2329.8	2301.1	2277.4	2258.6	2241.1	2227.4	2213.8
32.5°	2209.5	2193.6	2172.8	2152.8	2133.6	2116.0	2103.1	2090.3
35°	1975.0	1965.9	1955.6	1940.1	1919.4	1900.4	1886.3	1872.2
37.5°	1704.0	1696.0	1685.7	1671.6	1653.7	1636.6	1621.8	1607.1
40°	1504.3	1496.3	1486.0	1472.8	1456.8	1442.4	1432.5	1422.6
42.5°	1299.9	1294.9	1282.3	1266.2	1246.4	1230.1	1224.0	1217.9
45°	937.4	952.3	957.0	949.5	929.7	897.6	828.5	759.4
47.5°	558.5	605.2	647.1	636.0	572.0	505.8	433.1	360.5
50°	335.6	395.6	460.5	445.6	351.2	274.1	249.2	224.2
52.5°	203.6	254.0	314.0	307.3	233.8	175.6	163.1	150.6
55°	90.3	114.6	144.7	143.5	111.1	85.8	82.0	78.3
57.5°	40.8	51.6	63.7	63.9	52.0	41.3	33.9	26.4
60°	16.6	25.4	35.3	34.1	21.9	11.4	6.2	1.1
62.5°	4.9	11.3	19.3	18.9	10.0	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°	1.5	2.3	3.4	4.4	5.3	5.7	6.1	6.3
90°	7.4	11.6	16.9	22.2	26.4	28.5	30.6	31.7
92.5°	19.2	26.0	33.8	39.9	46.7	51.4	53.5	53.7
95°	44.4	53.9	65.5	76.1	84.5	90.9	95.1	96.2
97.5°	68.3	86.0	98.9	111.2	123.4	131.0	135.9	136.5
100°	87.7	104.6	122.6	133.2	148.0	156.4	159.6	162.8
102.5°	108.9	123.2	142.9	158.5	172.5	180.1	186.6	189.8
105°	138.4	156.4	173.3	191.3	207.1	215.6	221.9	225.1
107.5°	166.6	188.5	205.4	223.0	236.9	247.3	254.9	258.1
110°	186.0	207.1	228.3	244.1	258.9	268.4	276.9	280.1

TEST NUMBER: P709261

CATALOG NUMBER: DL2W-BB-M-050U-100D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	204.6	226.6	249.4	267.0	280.9	293.0	298.9	304.6
115°	230.4	254.7	277.9	300.1	314.9	323.4	328.7	332.9
117.5°	253.2	277.7	301.6	323.8	339.0	346.0	349.2	353.2
120°	268.4	293.8	316.0	338.2	355.1	364.6	367.8	370.9
122.5°	282.8	307.3	330.4	351.7	368.6	379.0	383.8	386.2
125°	302.3	326.6	349.8	370.9	385.7	398.4	404.8	406.9
127.5°	318.3	342.6	367.1	387.4	403.1	413.6	420.0	422.9
130°	331.8	351.9	377.3	398.4	413.2	423.8	430.1	432.2
132.5°	343.7	360.4	384.0	406.0	421.7	433.1	437.7	440.7
135°	364.6	373.1	393.1	416.4	433.3	442.8	448.1	451.3
137.5°	384.9	387.2	399.9	421.2	438.2	448.7	454.0	456.1
140°	398.4	397.4	405.8	423.8	440.7	451.3	456.5	458.7
142.5°	413.6	410.0	414.3	427.2	442.4	453.0	459.1	460.4
145°	438.6	429.1	425.9	433.3	444.9	454.4	459.7	460.8
147.5°	466.5	451.9	442.8	444.1	450.6	457.4	461.4	462.3
150°	485.1	467.1	455.5	453.4	456.5	460.8	463.9	463.9
152.5°	502.0	484.9	469.0	465.2	464.2	466.7	469.0	468.2
155°	531.6	510.4	492.5	486.1	480.9	479.8	478.7	477.7
157.5°	561.2	538.1	517.8	508.3	502.6	499.2	496.9	494.2
160°	578.1	555.9	534.8	525.2	517.8	513.6	510.4	509.4
162.5°	594.1	574.5	554.2	541.3	534.8	528.8	527.4	523.8
165°	617.2	601.3	579.1	566.5	561.2	556.9	553.8	549.5
167.5°	640.0	625.2	606.6	594.4	588.4	584.2	580.6	578.3
170°	651.0	640.4	623.5	613.0	608.7	604.5	599.2	596.0
172.5°	662.0	653.1	639.6	629.9	628.2	623.1	621.2	617.2
175°	675.3	670.0	659.5	654.2	654.2	652.1	652.1	646.8
177.5°	684.6	682.9	676.2	672.8	675.3	675.3	674.5	671.9
180°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0

(END OF REPORT)