

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: P709250

Luminaire Tested: DL2W-BB-M-025U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-025U-125D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5692.5 lumens
Efficiency: N/A
Efficacy: 99.3 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

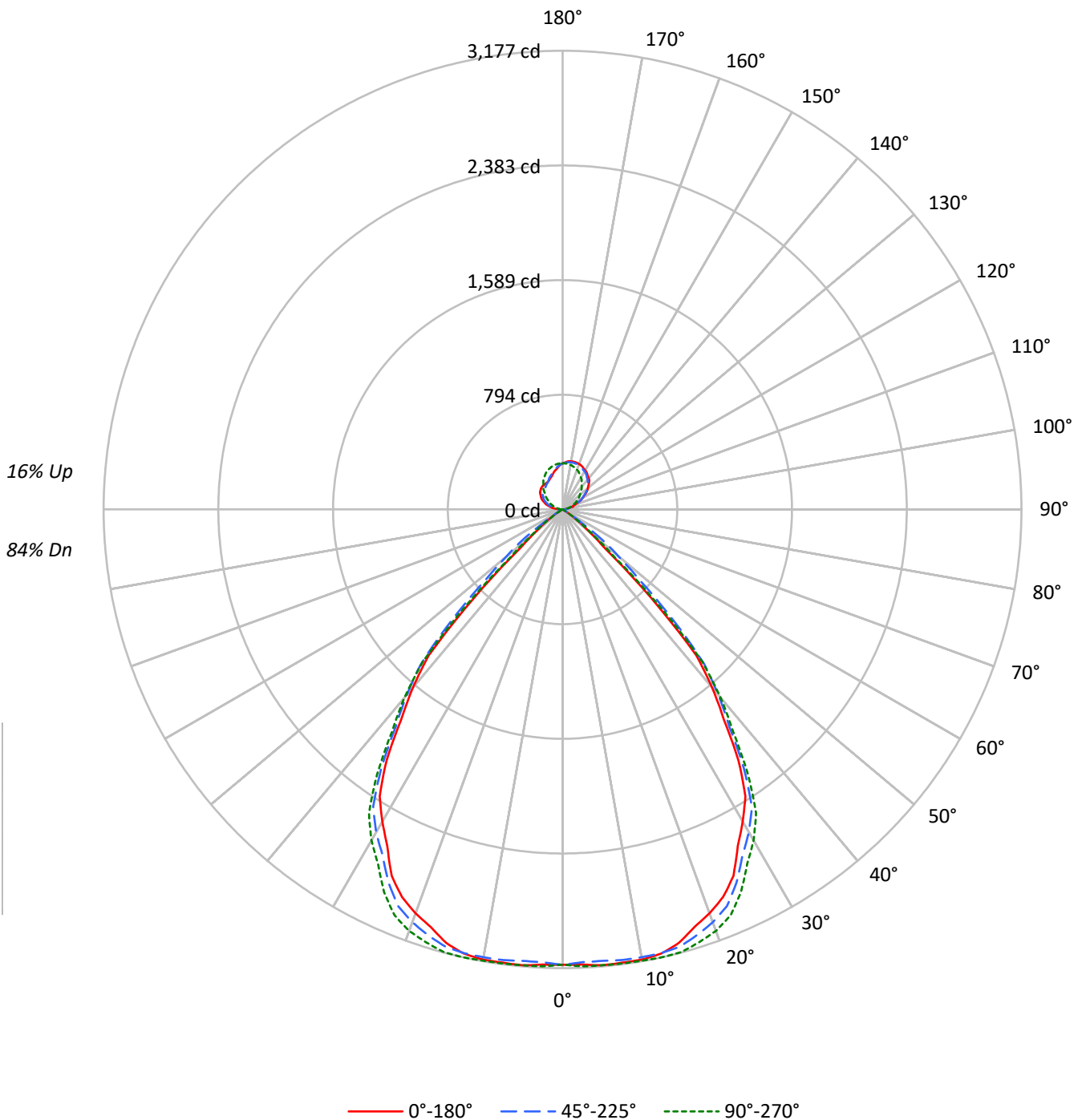
Input Watts (W): 57.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	109	105	102	100	104	102	99	97	94	93	91	88	87	85	82	81	80	77
2	102	96	91	87	98	93	89	85	87	84	81	82	79	77	77	75	73	70
3	95	88	82	77	92	85	80	76	80	76	72	75	72	69	71	69	66	64
4	89	80	74	69	86	78	72	68	74	69	65	70	66	63	66	63	60	58
5	84	74	67	62	81	72	66	61	68	63	59	65	60	57	61	58	55	53
6	78	68	61	56	76	66	60	55	63	58	54	60	55	52	57	53	50	48
7	73	63	56	51	71	61	55	50	58	53	49	56	51	47	53	49	46	44
8	69	58	51	46	67	57	50	46	54	49	45	52	47	44	50	45	42	41
9	65	54	47	43	63	53	46	42	50	45	41	48	44	40	46	42	39	37
10	61	50	44	39	59	49	43	39	47	42	38	45	40	37	43	39	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50901	50901	50901	50901	50901
5°	51358	50861	51358	50861	51358
10°	51905	51629	52015	51629	51905
15°	51965	52396	53063	52396	51965
20°	51123	52269	53366	52269	51123
25°	49868	50781	52073	50781	49868
30°	46505	48101	49310	48101	46505
35°	41863	43110	44098	43110	41863
40°	33946	35344	35913	35344	33946
45°	19747	24709	21923	24709	19747
50°	6292	12754	7154	12754	6292
55°	2519	4442	2441	4442	2519
60°	61	1219	184	1219	61
65°	0	65	38	65	0
70°	0	40	0	40	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: 60°
 Vertical Angle: 45°
 Luminance: 24909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	5.3
10°-20°	885.9	15.6
20°-30°	1309.3	23.0
30°-40°	1345.6	23.6
40°-50°	777.2	13.7
50°-60°	134.4	2.4
60°-70°	5.0	0.1
70°-80°	0.1	0.0
80°-90°	1.7	0.0
90°-100°	25.5	0.4
100°-110°	74.1	1.3
110°-120°	120.9	2.1
120°-130°	153.3	2.7
130°-140°	164.1	2.9
140°-150°	153.2	2.7
150°-160°	126.1	2.2
160°-170°	84.6	1.5
170°-180°	30.0	0.5
0°-30°	2496.9	43.9
0°-40°	3842.5	67.5
0°-60°	4754.1	83.5
0°-90°	4761.0	83.6
90°-120°	220.5	3.9
90°-150°	691.1	12.1
90°-180°	932.0	16.4
0°-180°	5692.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3153	3153	3153	3153	3153	
5°	3169	3138	3169	3138	3169	302
15°	3109	3135	3174	3135	3109	873
25°	2799	2850	2923	2850	2799	1274
35°	2124	2187	2237	2187	2124	1303
45°	865	1082	960	1082	865	673
55°	90	158	87	158	90	91
65°	0	2	1	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	7	6	1	9	15	3
95°	8	10	11	32	44	13
105°	77	57	47	85	105	71
115°	125	125	90	134	155	123
125°	197	192	134	167	188	176
135°	260	247	181	187	209	199
145°	299	289	232	199	214	187
155°	326	317	275	226	221	150
165°	340	331	304	265	255	96
175°	332	326	318	303	300	32
180°	319	319	319	319	319	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6
2.5°	3154.9	3157.9	3161.0	3152.1	3139.2	3138.4	3149.5	3158.9	3163.0	3167.1	3163.0
5°	3168.8	3171.7	3174.7	3160.2	3139.9	3136.3	3149.4	3160.3	3164.5	3168.8	3164.5
7.5°	3165.9	3170.7	3175.4	3164.6	3148.6	3146.2	3157.5	3166.6	3169.2	3171.8	3169.2
10°	3165.9	3169.3	3172.7	3163.1	3149.1	3149.1	3163.1	3173.4	3173.0	3172.6	3173.0
12.5°	3151.4	3157.2	3162.9	3155.9	3144.7	3149.6	3170.7	3185.4	3181.3	3177.1	3181.3
15°	3108.8	3118.9	3129.1	3129.7	3127.2	3142.0	3174.2	3195.6	3185.1	3174.5	3185.1
17.5°	3033.3	3046.0	3058.7	3069.2	3078.9	3104.5	3145.8	3173.0	3157.7	3142.5	3157.7
20°	2975.4	2988.1	3000.8	3013.8	3027.0	3057.2	3104.6	3136.4	3121.1	3105.9	3121.1
22.5°	2905.3	2917.0	2928.7	2942.5	2956.9	2989.6	3040.4	3074.3	3057.7	3041.1	3057.7
25°	2799.2	2803.9	2808.5	2820.5	2834.9	2866.0	2913.8	2946.7	2934.9	2923.0	2934.9
27.5°	2627.0	2637.9	2648.9	2665.8	2684.6	2712.5	2749.4	2776.1	2771.8	2767.6	2771.8
30°	2494.4	2510.1	2525.8	2545.9	2567.5	2592.6	2621.4	2643.2	2644.1	2644.9	2644.1
32.5°	2355.8	2371.8	2387.8	2406.9	2427.2	2451.9	2481.0	2501.8	2497.5	2493.3	2497.5
35°	2123.9	2136.2	2148.5	2162.7	2177.5	2196.8	2220.5	2238.1	2237.7	2237.3	2237.7
37.5°	1836.1	1843.1	1850.0	1866.8	1887.0	1905.2	1921.6	1934.4	1936.5	1938.6	1936.5
40°	1610.6	1618.2	1625.8	1644.9	1667.7	1686.1	1700.1	1709.8	1706.9	1703.9	1706.9
42.5°	1371.3	1380.6	1389.9	1412.5	1439.4	1458.0	1468.2	1471.0	1451.5	1431.9	1451.5
45°	864.8	939.7	1014.7	1051.5	1075.6	1088.7	1090.9	1077.7	1018.9	960.1	1018.9
47.5°	394.5	482.5	570.4	645.2	715.5	729.9	688.2	638.6	564.9	491.3	564.9
50°	250.5	275.5	300.4	388.9	498.5	517.0	444.2	377.9	331.3	284.8	331.3
52.5°	166.7	181.2	195.6	264.0	350.2	357.1	284.7	224.8	202.6	180.4	202.6
55°	89.5	93.8	98.0	124.1	157.6	158.0	125.4	99.4	93.0	86.7	93.0
57.5°	33.9	40.3	46.8	58.0	70.9	70.7	57.4	45.7	38.6	31.6	38.6
60°	1.9	7.0	12.1	23.5	37.0	38.5	27.9	18.4	12.1	5.7	12.1
62.5°	1.1	2.2	3.2	10.8	20.6	21.1	12.2	5.1	3.5	1.9	3.5
65°	0.0	0.4	0.8	1.3	1.7	1.7	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.8	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.8	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1
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°	1.3	1.3	1.3	1.3	1.3	1.2	1.2	0.8	0.6	0.2	0.4
90°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	3.8	2.9	1.0	1.9
92.5°	8.3	8.3	8.3	8.3	7.5	6.5	5.8	5.4	6.0	3.3	6.5
95°	7.7	7.7	7.7	7.7	8.7	11.5	15.4	16.4	11.5	10.6	14.4
97.5°	17.5	18.7	19.8	23.5	29.4	30.6	29.0	20.4	20.2	19.2	26.0
100°	33.7	35.6	37.5	40.4	47.1	37.5	29.8	28.9	27.9	26.9	33.7
102.5°	56.0	57.1	59.8	59.6	46.4	41.4	39.8	38.1	35.6	34.6	42.1
105°	76.9	72.1	63.5	55.8	56.7	56.7	56.7	51.9	48.1	47.1	54.8
107.5°	73.9	72.9	73.9	75.6	76.6	76.4	74.1	67.9	61.2	59.8	67.5
110°	88.5	87.5	88.5	89.4	90.4	89.4	85.6	77.9	71.2	68.3	76.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	101.6	102.1	103.1	104.1	104.3	103.3	98.7	89.4	80.4	76.8	83.7
115°	125.0	125.0	125.0	126.0	126.0	124.1	117.3	106.8	95.2	90.4	95.2
117.5°	147.7	147.0	147.0	147.0	147.0	143.7	135.8	123.1	110.2	103.1	107.5
120°	161.6	161.6	161.6	161.6	161.6	156.8	148.1	134.7	120.2	111.6	114.5
122.5°	176.2	175.4	176.2	175.4	174.7	169.9	159.7	146.2	131.0	120.0	121.4
125°	197.2	197.2	195.2	195.2	194.3	189.5	177.9	163.5	147.2	133.7	132.7
127.5°	216.6	217.4	214.9	213.9	212.4	205.6	195.2	181.8	162.5	146.8	142.3
130°	228.9	228.9	227.9	227.0	223.1	216.4	206.8	193.3	174.1	156.8	150.0
132.5°	242.0	242.0	241.0	238.5	233.9	227.9	218.3	204.9	184.9	166.8	157.7
135°	259.7	258.7	256.8	254.9	250.1	243.3	234.7	221.2	201.0	180.8	170.2
137.5°	274.1	273.2	271.4	267.8	263.9	257.4	248.7	236.0	217.2	196.8	182.2
140°	281.8	280.8	279.9	277.0	273.2	267.4	258.7	245.3	227.9	206.8	191.4
142.5°	288.7	288.5	286.8	284.7	280.8	274.3	267.2	254.5	237.2	217.6	200.6
145°	299.1	299.1	298.2	296.2	292.4	285.7	279.9	268.3	251.0	231.8	214.5
147.5°	308.2	308.4	307.2	305.3	301.6	295.8	290.3	278.7	263.7	246.4	228.3
150°	313.5	314.5	312.6	310.7	307.8	302.0	297.2	285.7	272.2	254.9	237.6
152.5°	318.2	319.9	318.0	316.8	313.2	307.4	302.6	291.8	279.1	264.1	246.8
155°	326.0	327.0	325.1	324.1	319.3	314.5	310.7	300.1	288.5	275.1	260.6
157.5°	331.6	332.6	331.6	329.7	324.9	320.3	316.4	307.8	297.4	286.2	272.2
160°	334.7	335.7	334.7	332.8	328.0	324.1	320.3	311.6	302.0	292.4	279.9
162.5°	337.0	338.0	337.0	335.1	330.3	326.4	323.4	315.5	306.6	297.0	286.0
165°	339.5	340.5	339.5	336.6	332.8	328.9	326.0	319.3	311.6	303.9	296.2
167.5°	339.3	341.2	339.5	338.4	332.8	330.9	328.2	322.4	316.0	309.7	302.4
170°	338.6	340.5	339.5	337.6	332.8	330.9	328.9	323.2	318.4	313.5	307.8
172.5°	337.0	338.2	337.2	336.1	331.2	329.3	328.2	323.9	319.9	315.9	310.9
175°	331.8	333.7	332.8	331.8	327.0	326.0	327.0	323.2	320.3	318.4	315.5
177.5°	324.7	326.2	325.5	324.7	322.4	321.6	323.2	321.6	320.1	319.3	317.8
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6	3152.6
2.5°	3158.9	3149.5	3138.4	3139.2	3152.1	3161.0	3157.9	3154.9
5°	3160.3	3149.4	3136.3	3139.9	3160.2	3174.7	3171.7	3168.8
7.5°	3166.6	3157.5	3146.2	3148.6	3164.6	3175.4	3170.7	3165.9
10°	3173.4	3163.1	3149.1	3149.1	3163.1	3172.7	3169.3	3165.9
12.5°	3185.4	3170.7	3149.6	3144.7	3155.9	3162.9	3157.2	3151.4
15°	3195.6	3174.2	3142.0	3127.2	3129.7	3129.1	3118.9	3108.8
17.5°	3173.0	3145.8	3104.5	3078.9	3069.2	3058.7	3046.0	3033.3
20°	3136.4	3104.6	3057.2	3027.0	3013.8	3000.8	2988.1	2975.4
22.5°	3074.3	3040.4	2989.6	2956.9	2942.5	2928.7	2917.0	2905.3
25°	2946.7	2913.8	2866.0	2834.9	2820.5	2808.5	2803.9	2799.2
27.5°	2776.1	2749.4	2712.5	2684.6	2665.8	2648.9	2637.9	2627.0
30°	2643.2	2621.4	2592.6	2567.5	2545.9	2525.8	2510.1	2494.4
32.5°	2501.8	2481.0	2451.9	2427.2	2406.9	2387.8	2371.8	2355.8
35°	2238.1	2220.5	2196.8	2177.5	2162.7	2148.5	2136.2	2123.9
37.5°	1934.4	1921.6	1905.2	1887.0	1866.8	1850.0	1843.1	1836.1
40°	1709.8	1700.1	1686.1	1667.7	1644.9	1625.8	1618.2	1610.6
42.5°	1471.0	1468.2	1458.0	1439.4	1412.5	1389.9	1380.6	1371.3
45°	1077.7	1090.9	1088.7	1075.6	1051.5	1014.7	939.7	864.8
47.5°	638.6	688.2	729.9	715.5	645.2	570.4	482.5	394.5
50°	377.9	444.2	517.0	498.5	388.9	300.4	275.5	250.5
52.5°	224.8	284.7	357.1	350.2	264.0	195.6	181.2	166.7
55°	99.4	125.4	158.0	157.6	124.1	98.0	93.8	89.5
57.5°	45.7	57.4	70.7	70.9	58.0	46.8	40.3	33.9
60°	18.4	27.9	38.5	37.0	23.5	12.1	7.0	1.9
62.5°	5.1	12.2	21.1	20.6	10.8	3.2	2.2	1.1
65°	1.0	1.3	1.7	1.7	1.3	0.8	0.4	0.0
67.5°	0.8	1.0	1.0	0.7	0.3	0.0	0.0	0.0
70°	0.8	1.0	1.0	0.7	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.1	0.1	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	1.2	1.5	1.9	2.5	2.7	2.9	3.1
90°	3.8	5.8	7.7	9.6	12.5	13.5	14.4	15.4
92.5°	8.5	11.9	15.4	18.1	21.7	24.2	24.4	25.4
95°	20.2	25.0	29.8	34.6	39.4	43.3	44.2	44.2
97.5°	32.1	39.6	46.0	51.7	57.3	60.6	62.7	64.6
100°	41.4	48.1	56.7	62.5	67.3	72.1	75.0	76.9
102.5°	50.6	57.3	66.0	73.3	80.4	83.7	87.3	88.5
105°	64.4	72.1	80.8	89.4	95.2	100.0	102.9	104.8
107.5°	77.3	86.9	95.2	103.3	109.3	115.0	118.7	119.8
110°	86.6	96.2	106.8	112.5	119.3	125.0	127.9	129.8

TEST NUMBER: P709250

CATALOG NUMBER: DL2W-BB-M-025U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	95.0	105.4	116.0	123.3	130.0	135.8	138.7	140.6
115°	106.8	117.3	127.9	139.5	146.2	150.0	152.9	154.8
117.5°	117.3	128.9	139.5	149.8	157.5	160.6	162.5	163.7
120°	125.0	136.6	147.2	156.8	164.5	168.3	170.2	172.2
122.5°	131.2	142.7	153.3	162.9	170.6	175.2	177.9	179.1
125°	140.4	151.0	162.5	171.2	178.9	184.7	187.6	188.5
127.5°	147.7	158.7	170.2	179.3	187.0	191.6	194.5	196.2
130°	153.9	162.5	174.1	184.7	192.4	196.2	199.1	200.1
132.5°	160.0	167.2	177.9	188.5	196.2	200.8	203.7	204.7
135°	168.3	172.2	181.8	192.4	200.1	204.9	207.7	208.7
137.5°	178.7	180.0	185.4	195.4	203.3	208.1	210.8	211.8
140°	185.6	184.7	188.5	196.2	204.9	209.7	211.6	212.6
142.5°	191.8	190.1	191.6	197.7	204.9	209.7	212.4	212.6
145°	203.9	199.1	197.2	201.0	205.8	210.6	213.5	213.5
147.5°	215.6	209.7	205.2	206.0	208.5	212.0	213.7	213.9
150°	224.1	217.4	210.6	210.6	211.6	213.5	214.5	215.4
152.5°	233.3	225.1	217.6	216.0	215.4	215.8	217.6	217.0
155°	246.2	236.6	227.9	225.1	223.1	222.2	222.2	221.2
157.5°	258.9	250.1	239.7	235.6	232.6	230.8	229.7	228.7
160°	267.4	257.8	248.1	243.3	239.5	238.5	236.6	235.6
162.5°	275.8	265.5	256.6	251.0	247.2	246.2	245.1	243.3
165°	286.6	278.9	268.3	262.6	260.6	257.8	256.8	254.9
167.5°	296.6	290.3	281.8	276.2	272.6	270.6	269.7	267.8
170°	302.0	297.2	289.5	284.7	281.8	279.9	278.9	277.0
172.5°	306.6	302.6	296.4	292.4	290.3	289.1	287.4	286.2
175°	312.6	310.7	304.9	302.0	303.0	302.0	302.0	300.1
177.5°	317.0	316.2	313.2	311.6	313.9	313.2	313.2	310.9
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

(END OF REPORT)