

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: P709251

Luminaire Tested: DL2W-BB-M-025U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709251  
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-935-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: 5918.6 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

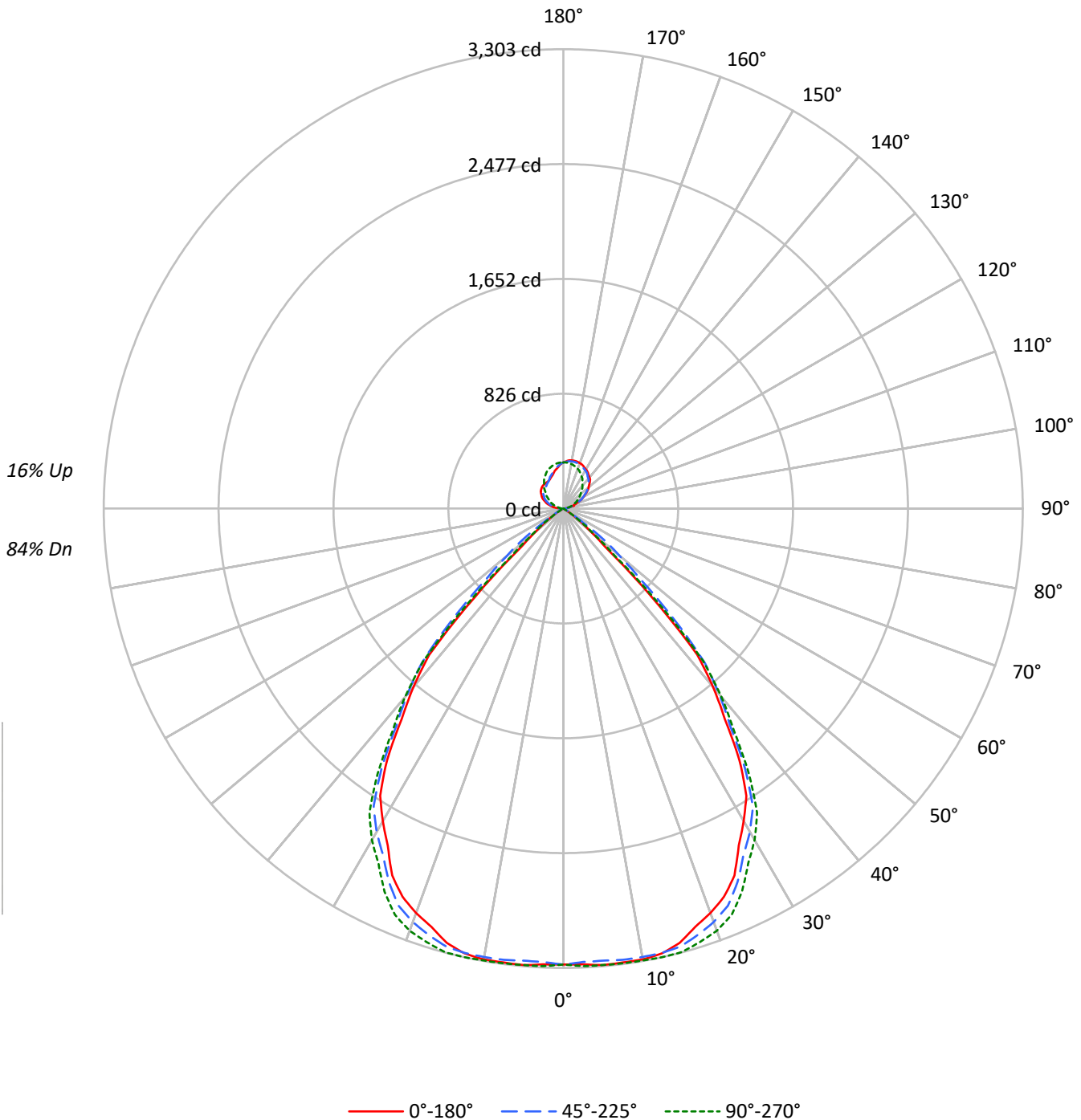
Input Watts (W): 57.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	52923	52923	52923	52923	52923
5°	53397	52881	53397	52881	53397
10°	53967	53680	54080	53680	53967
15°	54028	54477	55171	54477	54028
20°	53154	54346	55486	54346	53154
25°	51849	52797	54141	52797	51849
30°	48352	50011	51270	50011	48352
35°	43527	44822	45848	44822	43527
40°	35293	36749	37340	36749	35293
45°	20532	25691	22793	25691	20532
50°	6541	13261	7438	13261	6541
55°	2621	4618	2536	4618	2621
60°	65	1269	191	1269	65
65°	0	69	38	69	0
70°	0	42	0	42	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: 25898 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.7	5.3
10°-20°	921.1	15.6
20°-30°	1361.3	23.0
30°-40°	1399.0	23.6
40°-50°	808.1	13.7
50°-60°	139.8	2.4
60°-70°	5.2	0.1
70°-80°	0.1	0.0
80°-90°	1.8	0.0
90°-100°	26.5	0.4
100°-110°	77.1	1.3
110°-120°	125.7	2.1
120°-130°	159.4	2.7
130°-140°	170.6	2.9
140°-150°	159.3	2.7
150°-160°	131.1	2.2
160°-170°	88.0	1.5
170°-180°	31.2	0.5
0°-30°	2596.1	43.9
0°-40°	3995.1	67.5
0°-60°	4943.0	83.5
0°-90°	4950.1	83.6
90°-120°	229.2	3.9
90°-150°	718.6	12.1
90°-180°	969.0	16.4
0°-180°	5918.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3278	3278	3278	3278	3278	
5°	3295	3263	3295	3263	3295	314
15°	3232	3259	3301	3259	3232	908
25°	2910	2964	3039	2964	2910	1324
35°	2208	2274	2326	2274	2208	1354
45°	899	1125	998	1125	899	699
55°	93	164	90	164	93	95
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	7	6	1	9	16	3
95°	8	10	11	34	46	13
105°	80	59	49	88	109	73
115°	130	130	94	139	161	128
125°	205	200	139	174	196	182
135°	270	256	188	194	217	207
145°	311	300	241	207	222	194
155°	339	330	286	236	230	156
165°	353	344	316	276	265	100
175°	345	340	331	316	312	33
180°	332	332	332	332	332	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8
2.5°	3280.2	3283.3	3286.5	3277.3	3263.9	3263.0	3274.6	3284.4	3288.6	3292.8	3288.6
5°	3294.6	3297.7	3300.8	3285.7	3264.6	3260.9	3274.5	3285.8	3290.2	3294.6	3290.2
7.5°	3291.7	3296.6	3301.5	3290.3	3273.6	3271.2	3282.9	3292.3	3295.1	3297.8	3295.1
10°	3291.7	3295.2	3298.7	3288.7	3274.2	3274.2	3288.7	3299.5	3299.0	3298.6	3299.0
12.5°	3276.6	3282.6	3288.6	3281.3	3269.6	3274.7	3296.6	3312.0	3307.7	3303.3	3307.7
15°	3232.2	3242.8	3253.4	3254.0	3251.4	3266.8	3300.2	3322.6	3311.6	3300.6	3311.6
17.5°	3153.8	3167.0	3180.2	3191.1	3201.2	3227.8	3270.7	3299.0	3283.1	3267.3	3283.1
20°	3093.6	3106.8	3120.0	3133.5	3147.2	3178.7	3228.0	3261.0	3245.1	3229.3	3245.1
22.5°	3020.7	3032.9	3045.0	3059.3	3074.4	3108.3	3161.1	3196.4	3179.2	3161.9	3179.2
25°	2910.4	2915.2	2920.1	2932.5	2947.5	2979.8	3029.6	3063.8	3051.5	3039.1	3051.5
27.5°	2731.4	2742.7	2754.1	2771.6	2791.3	2820.3	2858.6	2886.3	2881.9	2877.5	2881.9
30°	2593.5	2609.8	2626.1	2647.0	2669.4	2695.6	2725.6	2748.2	2749.1	2750.0	2749.1
32.5°	2449.3	2466.0	2482.6	2502.5	2523.6	2549.2	2579.5	2601.1	2596.7	2592.3	2596.7
35°	2208.3	2221.1	2233.8	2248.6	2264.0	2284.0	2308.7	2327.0	2326.6	2326.1	2326.6
37.5°	1909.0	1916.3	1923.5	1941.0	1961.9	1980.9	1997.9	2011.2	2013.4	2015.6	2013.4
40°	1674.5	1682.5	1690.4	1710.2	1734.0	1753.1	1767.6	1777.8	1774.7	1771.6	1774.7
42.5°	1425.8	1435.5	1445.2	1468.6	1496.6	1515.9	1526.5	1529.4	1509.1	1488.8	1509.1
45°	899.2	977.1	1055.0	1093.3	1118.3	1132.0	1134.2	1120.5	1059.4	998.2	1059.4
47.5°	410.2	501.6	593.1	670.8	744.0	758.9	715.6	663.9	587.4	510.8	587.4
50°	260.4	286.4	312.4	404.4	518.4	537.5	461.8	392.9	344.5	296.1	344.5
52.5°	173.3	188.3	203.4	274.4	364.1	371.3	296.0	233.7	210.6	187.6	210.6
55°	93.1	97.5	101.9	129.1	163.8	164.3	130.4	103.3	96.7	90.1	96.7
57.5°	35.3	41.9	48.6	60.3	73.7	73.5	59.7	47.5	40.2	32.9	40.2
60°	2.0	7.3	12.5	24.4	38.5	40.1	29.0	19.1	12.5	5.9	12.5
62.5°	1.2	2.2	3.3	11.2	21.4	21.9	12.7	5.3	3.7	2.0	3.7
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.2	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°	1.4	1.4	1.4	1.4	1.4	1.2	1.2	0.8	0.6	0.2	0.4
90°	7.0	7.0	7.0	7.0	7.0	6.0	6.0	4.0	3.0	1.0	2.0
92.5°	8.6	8.6	8.6	8.6	7.8	6.8	6.0	5.6	6.2	3.4	6.8
95°	8.0	8.0	8.0	8.0	9.0	12.0	16.0	17.0	12.0	11.0	15.0
97.5°	18.2	19.4	20.6	24.4	30.6	31.8	30.2	21.2	21.0	20.0	27.0
100°	35.0	37.0	39.0	42.0	49.0	39.0	31.0	30.0	29.0	28.0	35.0
102.5°	58.2	59.4	62.2	62.0	48.2	43.0	41.4	39.6	37.0	36.0	43.8
105°	80.0	75.0	66.0	58.0	59.0	59.0	59.0	54.0	50.0	49.0	57.0
107.5°	76.8	75.8	76.8	78.6	79.6	79.4	77.0	70.6	63.6	62.2	70.2
110°	92.0	91.0	92.0	93.0	94.0	93.0	89.0	81.0	74.0	71.0	79.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	105.6	106.2	107.2	108.2	108.4	107.4	102.6	93.0	83.6	79.8	87.0
115°	130.0	130.0	130.0	131.0	131.0	129.0	122.0	111.0	99.0	94.0	99.0
117.5°	153.6	152.8	152.8	152.8	152.8	149.4	141.2	128.0	114.6	107.2	111.8
120°	168.0	168.0	168.0	168.0	168.0	163.0	154.0	140.0	125.0	116.0	119.0
122.5°	183.2	182.4	183.2	182.4	181.6	176.6	166.0	152.0	136.2	124.8	126.2
125°	205.0	205.0	203.0	203.0	202.0	197.0	185.0	170.0	153.0	139.0	138.0
127.5°	225.2	226.0	223.4	222.4	220.8	213.8	203.0	189.0	169.0	152.6	148.0
130°	238.0	238.0	237.0	236.0	232.0	225.0	215.0	201.0	181.0	163.0	156.0
132.5°	251.6	251.6	250.6	248.0	243.2	237.0	227.0	213.0	192.2	173.4	164.0
135°	270.0	269.0	267.0	265.0	260.0	253.0	244.0	230.0	209.0	188.0	177.0
137.5°	285.0	284.0	282.2	278.4	274.4	267.6	258.6	245.4	225.8	204.6	189.4
140°	293.0	292.0	291.0	288.0	284.0	278.0	269.0	255.0	237.0	215.0	199.0
142.5°	300.2	300.0	298.2	296.0	292.0	285.2	277.8	264.6	246.6	226.2	208.6
145°	311.0	311.0	310.0	308.0	304.0	297.0	291.0	279.0	261.0	241.0	223.0
147.5°	320.4	320.6	319.4	317.4	313.6	307.6	301.8	289.8	274.2	256.2	237.4
150°	326.0	327.0	325.0	323.0	320.0	314.0	309.0	297.0	283.0	265.0	247.0
152.5°	330.8	332.6	330.6	329.4	325.6	319.6	314.6	303.4	290.2	274.6	256.6
155°	339.0	340.0	338.0	337.0	332.0	327.0	323.0	312.0	300.0	286.0	271.0
157.5°	344.8	345.8	344.8	342.8	337.8	333.0	329.0	320.0	309.2	297.6	283.0
160°	348.0	349.0	348.0	346.0	341.0	337.0	333.0	324.0	314.0	304.0	291.0
162.5°	350.4	351.4	350.4	348.4	343.4	339.4	336.2	328.0	318.8	308.8	297.4
165°	353.0	354.0	353.0	350.0	346.0	342.0	339.0	332.0	324.0	316.0	308.0
167.5°	352.8	354.8	353.0	351.8	346.0	344.0	341.2	335.2	328.6	322.0	314.4
170°	352.0	354.0	353.0	351.0	346.0	344.0	342.0	336.0	331.0	326.0	320.0
172.5°	350.4	351.6	350.6	349.4	344.4	342.4	341.2	336.8	332.6	328.4	323.2
175°	345.0	347.0	346.0	345.0	340.0	339.0	340.0	336.0	333.0	331.0	328.0
177.5°	337.6	339.2	338.4	337.6	335.2	334.4	336.0	334.4	332.8	332.0	330.4
180°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8
2.5°	3284.4	3274.6	3263.0	3263.9	3277.3	3286.5	3283.3	3280.2
5°	3285.8	3274.5	3260.9	3264.6	3285.7	3300.8	3297.7	3294.6
7.5°	3292.3	3282.9	3271.2	3273.6	3290.3	3301.5	3296.6	3291.7
10°	3299.5	3288.7	3274.2	3274.2	3288.7	3298.7	3295.2	3291.7
12.5°	3312.0	3296.6	3274.7	3269.6	3281.3	3288.6	3282.6	3276.6
15°	3322.6	3300.2	3266.8	3251.4	3254.0	3253.4	3242.8	3232.2
17.5°	3299.0	3270.7	3227.8	3201.2	3191.1	3180.2	3167.0	3153.8
20°	3261.0	3228.0	3178.7	3147.2	3133.5	3120.0	3106.8	3093.6
22.5°	3196.4	3161.1	3108.3	3074.4	3059.3	3045.0	3032.9	3020.7
25°	3063.8	3029.6	2979.8	2947.5	2932.5	2920.1	2915.2	2910.4
27.5°	2886.3	2858.6	2820.3	2791.3	2771.6	2754.1	2742.7	2731.4
30°	2748.2	2725.6	2695.6	2669.4	2647.0	2626.1	2609.8	2593.5
32.5°	2601.1	2579.5	2549.2	2523.6	2502.5	2482.6	2466.0	2449.3
35°	2327.0	2308.7	2284.0	2264.0	2248.6	2233.8	2221.1	2208.3
37.5°	2011.2	1997.9	1980.9	1961.9	1941.0	1923.5	1916.3	1909.0
40°	1777.8	1767.6	1753.1	1734.0	1710.2	1690.4	1682.5	1674.5
42.5°	1529.4	1526.5	1515.9	1496.6	1468.6	1445.2	1435.5	1425.8
45°	1120.5	1134.2	1132.0	1118.3	1093.3	1055.0	977.1	899.2
47.5°	663.9	715.6	758.9	744.0	670.8	593.1	501.6	410.2
50°	392.9	461.8	537.5	518.4	404.4	312.4	286.4	260.4
52.5°	233.7	296.0	371.3	364.1	274.4	203.4	188.3	173.3
55°	103.3	130.4	164.3	163.8	129.1	101.9	97.5	93.1
57.5°	47.5	59.7	73.5	73.7	60.3	48.6	41.9	35.3
60°	19.1	29.0	40.1	38.5	24.4	12.5	7.3	2.0
62.5°	5.3	12.7	21.9	21.4	11.2	3.3	2.2	1.2
65°	1.0	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	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	1.6	2.0	2.6	2.8	3.0	3.2
90°	4.0	6.0	8.0	10.0	13.0	14.0	15.0	16.0
92.5°	8.8	12.4	16.0	18.8	22.6	25.2	25.4	26.4
95°	21.0	26.0	31.0	36.0	41.0	45.0	46.0	46.0
97.5°	33.4	41.2	47.8	53.8	59.6	63.0	65.2	67.2
100°	43.0	50.0	59.0	65.0	70.0	75.0	78.0	80.0
102.5°	52.6	59.6	68.6	76.2	83.6	87.0	90.8	92.0
105°	67.0	75.0	84.0	93.0	99.0	104.0	107.0	109.0
107.5°	80.4	90.4	99.0	107.4	113.6	119.6	123.4	124.6
110°	90.0	100.0	111.0	117.0	124.0	130.0	133.0	135.0



TEST NUMBER: P709251

CATALOG NUMBER: DL2W-BB-M-025U-125D-935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	98.8	109.6	120.6	128.2	135.2	141.2	144.2	146.2
115°	111.0	122.0	133.0	145.0	152.0	156.0	159.0	161.0
117.5°	122.0	134.0	145.0	155.8	163.8	167.0	169.0	170.2
120°	130.0	142.0	153.0	163.0	171.0	175.0	177.0	179.0
122.5°	136.4	148.4	159.4	169.4	177.4	182.2	185.0	186.2
125°	146.0	157.0	169.0	178.0	186.0	192.0	195.0	196.0
127.5°	153.6	165.0	177.0	186.4	194.4	199.2	202.2	204.0
130°	160.0	169.0	181.0	192.0	200.0	204.0	207.0	208.0
132.5°	166.4	173.8	185.0	196.0	204.0	208.8	211.8	212.8
135°	175.0	179.0	189.0	200.0	208.0	213.0	216.0	217.0
137.5°	185.8	187.2	192.8	203.2	211.4	216.4	219.2	220.2
140°	193.0	192.0	196.0	204.0	213.0	218.0	220.0	221.0
142.5°	199.4	197.6	199.2	205.6	213.0	218.0	220.8	221.0
145°	212.0	207.0	205.0	209.0	214.0	219.0	222.0	222.0
147.5°	224.2	218.0	213.4	214.2	216.8	220.4	222.2	222.4
150°	233.0	226.0	219.0	219.0	220.0	222.0	223.0	224.0
152.5°	242.6	234.0	226.2	224.6	224.0	224.4	226.2	225.6
155°	256.0	246.0	237.0	234.0	232.0	231.0	231.0	230.0
157.5°	269.2	260.0	249.2	245.0	241.8	240.0	238.8	237.8
160°	278.0	268.0	258.0	253.0	249.0	248.0	246.0	245.0
162.5°	286.8	276.0	266.8	261.0	257.0	256.0	254.8	253.0
165°	298.0	290.0	279.0	273.0	271.0	268.0	267.0	265.0
167.5°	308.4	301.8	293.0	287.2	283.4	281.4	280.4	278.4
170°	314.0	309.0	301.0	296.0	293.0	291.0	290.0	288.0
172.5°	318.8	314.6	308.2	304.0	301.8	300.6	298.8	297.6
175°	325.0	323.0	317.0	314.0	315.0	314.0	314.0	312.0
177.5°	329.6	328.8	325.6	324.0	326.4	325.6	325.6	323.2
180°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0

(END OF REPORT)