

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: P709252

Luminaire Tested: DL2W-BB-M-025U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709252  
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-940-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: 6259.6 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

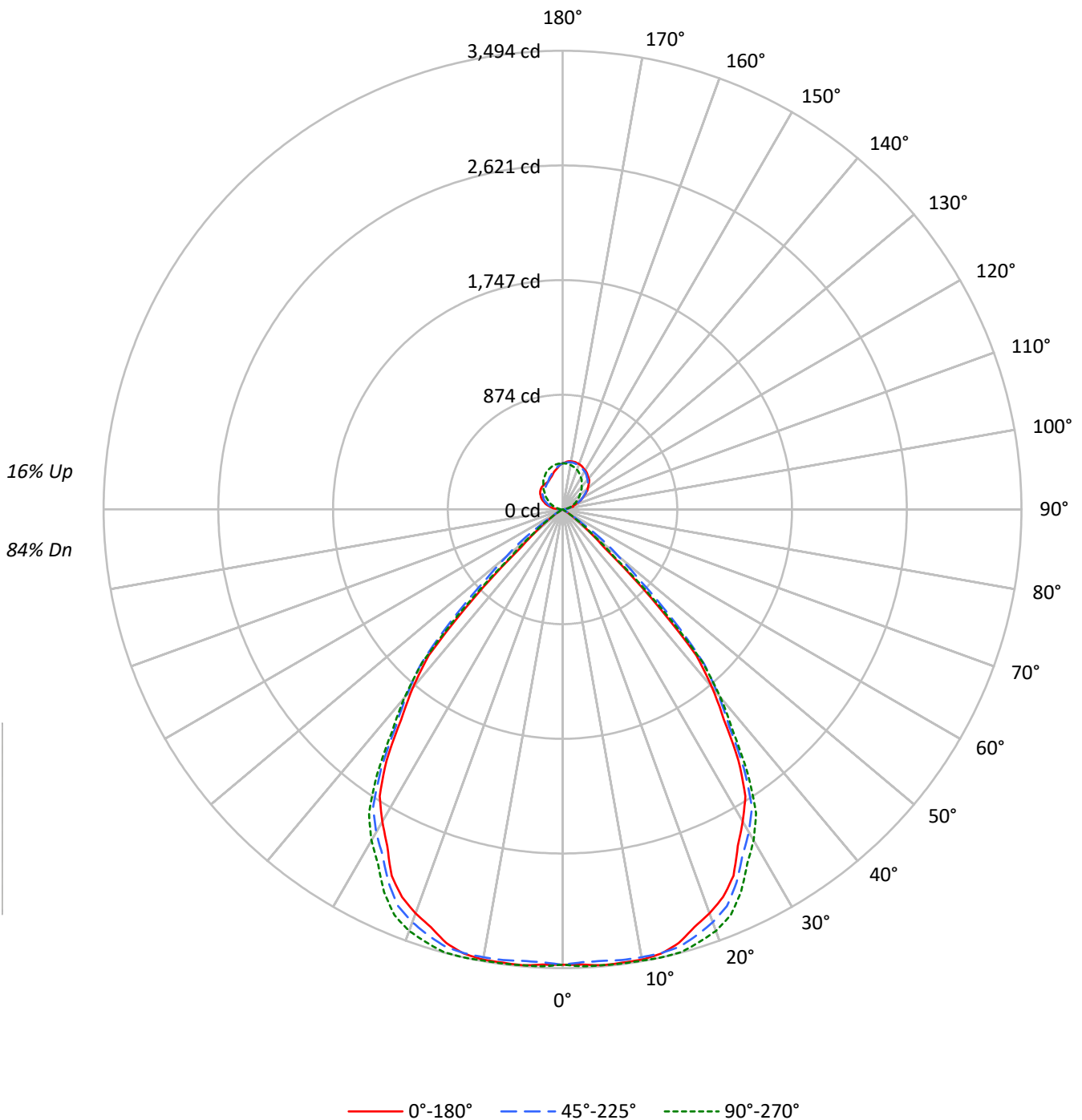
Input Watts (W): 57.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	46	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°	55979	55979	55979	55979	55979
5°	56483	55935	56483	55935	56483
10°	57084	56781	57204	56781	57084
15°	57150	57624	58357	57624	57150
20°	56225	57485	58690	57485	56225
25°	54843	55848	57270	55848	54843
30°	51145	52900	54231	52900	51145
35°	46042	47410	48498	47410	46042
40°	37334	38871	39496	38871	37334
45°	21717	27175	24110	27175	21717
50°	6920	14026	7867	14026	6920
55°	2773	4885	2683	4885	2773
60°	68	1342	203	1342	68
65°	0	73	38	73	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: 27394 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.8	5.3
10°-20°	974.3	15.6
20°-30°	1440.0	23.0
30°-40°	1479.8	23.6
40°-50°	854.7	13.7
50°-60°	147.8	2.4
60°-70°	5.5	0.1
70°-80°	0.1	0.0
80°-90°	1.9	0.0
90°-100°	28.0	0.4
100°-110°	81.5	1.3
110°-120°	132.8	2.1
120°-130°	168.5	2.7
130°-140°	180.3	2.9
140°-150°	168.3	2.7
150°-160°	138.6	2.2
160°-170°	93.0	1.5
170°-180°	33.0	0.5
0°-30°	2746.1	43.9
0°-40°	4225.9	67.5
0°-60°	5228.5	83.5
0°-90°	5236.0	83.6
90°-120°	242.2	3.9
90°-150°	759.4	12.1
90°-180°	1024.0	16.4
0°-180°	6259.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3467	3467	3467	3467	3467	
5°	3485	3451	3485	3451	3485	332
15°	3419	3447	3491	3447	3419	960
25°	3078	3135	3215	3135	3078	1401
35°	2336	2405	2460	2405	2336	1433
45°	951	1190	1056	1190	951	740
55°	98	174	95	174	98	100
65°	0	2	1	2	0	1
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°	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1
2.5°	3469.7	3473.0	3476.4	3466.6	3452.4	3451.5	3463.8	3474.1	3478.6	3483.1	3478.6
5°	3485.0	3488.2	3491.5	3475.5	3453.2	3449.2	3463.7	3475.6	3480.3	3485.0	3480.3
7.5°	3481.8	3487.0	3492.2	3480.3	3462.7	3460.1	3472.5	3482.5	3485.4	3488.3	3485.4
10°	3481.8	3485.5	3489.3	3478.7	3463.3	3463.3	3478.7	3490.1	3489.6	3489.1	3489.6
12.5°	3465.9	3472.2	3478.5	3470.8	3458.5	3463.9	3487.0	3503.3	3498.7	3494.2	3498.7
15°	3419.0	3430.1	3441.3	3442.0	3439.2	3455.5	3490.9	3514.5	3502.9	3491.2	3502.9
17.5°	3336.0	3350.0	3363.9	3375.5	3386.2	3414.2	3459.7	3489.6	3472.8	3456.0	3472.8
20°	3272.3	3286.3	3300.2	3314.6	3329.0	3362.3	3414.4	3449.3	3432.6	3415.8	3432.6
22.5°	3195.2	3208.1	3220.9	3236.1	3252.0	3287.9	3343.8	3381.1	3362.8	3344.6	3362.8
25°	3078.5	3083.7	3088.8	3101.9	3117.8	3152.0	3204.6	3240.8	3227.7	3214.7	3227.7
27.5°	2889.1	2901.2	2913.2	2931.7	2952.5	2983.2	3023.8	3053.1	3048.4	3043.8	3048.4
30°	2743.3	2760.6	2777.8	2799.9	2823.6	2851.3	2883.0	2907.0	2907.9	2908.8	2907.9
32.5°	2590.8	2608.4	2626.0	2647.1	2669.4	2696.5	2728.5	2751.4	2746.7	2742.1	2746.7
35°	2335.9	2349.4	2362.9	2378.5	2394.8	2415.9	2442.0	2461.5	2461.0	2460.5	2461.0
37.5°	2019.3	2027.0	2034.6	2053.1	2075.3	2095.3	2113.3	2127.4	2129.7	2132.0	2129.7
40°	1771.3	1779.7	1788.0	1809.0	1834.1	1854.4	1869.7	1880.5	1877.2	1873.9	1877.2
42.5°	1508.2	1518.4	1528.6	1553.4	1583.0	1603.5	1614.7	1617.8	1596.3	1574.8	1596.3
45°	951.1	1033.5	1115.9	1156.4	1182.9	1197.4	1199.7	1185.3	1120.6	1055.9	1120.6
47.5°	433.9	530.6	627.3	709.6	786.9	802.7	756.9	702.3	621.3	540.3	621.3
50°	275.5	303.0	330.4	427.7	548.3	568.5	488.5	415.6	364.4	313.2	364.4
52.5°	183.3	199.2	215.2	290.3	385.2	392.8	313.1	247.2	222.8	198.4	222.8
55°	98.5	103.1	107.8	136.5	173.3	173.8	137.9	109.3	102.3	95.3	102.3
57.5°	37.3	44.4	51.4	63.8	78.0	77.7	63.1	50.2	42.5	34.8	42.5
60°	2.1	7.7	13.3	25.8	40.7	42.4	30.7	20.3	13.3	6.3	13.3
62.5°	1.3	2.4	3.5	11.9	22.7	23.2	13.4	5.6	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	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	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.5	0.0	0.5
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°	1.5	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°	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1	3467.1
2.5°	3474.1	3463.8	3451.5	3452.4	3466.6	3476.4	3473.0	3469.7
5°	3475.6	3463.7	3449.2	3453.2	3475.5	3491.5	3488.2	3485.0
7.5°	3482.5	3472.5	3460.1	3462.7	3480.3	3492.2	3487.0	3481.8
10°	3490.1	3478.7	3463.3	3463.3	3478.7	3489.3	3485.5	3481.8
12.5°	3503.3	3487.0	3463.9	3458.5	3470.8	3478.5	3472.2	3465.9
15°	3514.5	3490.9	3455.5	3439.2	3442.0	3441.3	3430.1	3419.0
17.5°	3489.6	3459.7	3414.2	3386.2	3375.5	3363.9	3350.0	3336.0
20°	3449.3	3414.4	3362.3	3329.0	3314.6	3300.2	3286.3	3272.3
22.5°	3381.1	3343.8	3287.9	3252.0	3236.1	3220.9	3208.1	3195.2
25°	3240.8	3204.6	3152.0	3117.8	3101.9	3088.8	3083.7	3078.5
27.5°	3053.1	3023.8	2983.2	2952.5	2931.7	2913.2	2901.2	2889.1
30°	2907.0	2883.0	2851.3	2823.6	2799.9	2777.8	2760.6	2743.3
32.5°	2751.4	2728.5	2696.5	2669.4	2647.1	2626.0	2608.4	2590.8
35°	2461.5	2442.0	2415.9	2394.8	2378.5	2362.9	2349.4	2335.9
37.5°	2127.4	2113.3	2095.3	2075.3	2053.1	2034.6	2027.0	2019.3
40°	1880.5	1869.7	1854.4	1834.1	1809.0	1788.0	1779.7	1771.3
42.5°	1617.8	1614.7	1603.5	1583.0	1553.4	1528.6	1518.4	1508.2
45°	1185.3	1199.7	1197.4	1182.9	1156.4	1115.9	1033.5	951.1
47.5°	702.3	756.9	802.7	786.9	709.6	627.3	530.6	433.9
50°	415.6	488.5	568.5	548.3	427.7	330.4	303.0	275.5
52.5°	247.2	313.1	392.8	385.2	290.3	215.2	199.2	183.3
55°	109.3	137.9	173.8	173.3	136.5	107.8	103.1	98.5
57.5°	50.2	63.1	77.7	78.0	63.8	51.4	44.4	37.3
60°	20.3	30.7	42.4	40.7	25.8	13.3	7.7	2.1
62.5°	5.6	13.4	23.2	22.7	11.9	3.5	2.4	1.3
65°	1.0	1.4	1.9	1.9	1.4	0.9	0.5	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	1.3	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: P709252

CATALOG NUMBER: DL2W-BB-M-025U-125D-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)