

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: P709248

Luminaire Tested: DL2W-BB-M-025U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

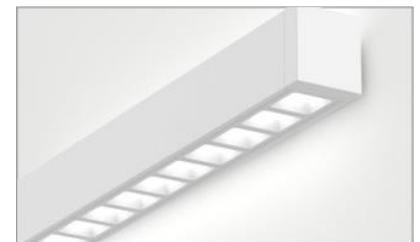
**Test Information**

Test Method: LM-79-2019  
Report Number: P709248  
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-935-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: 4981.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

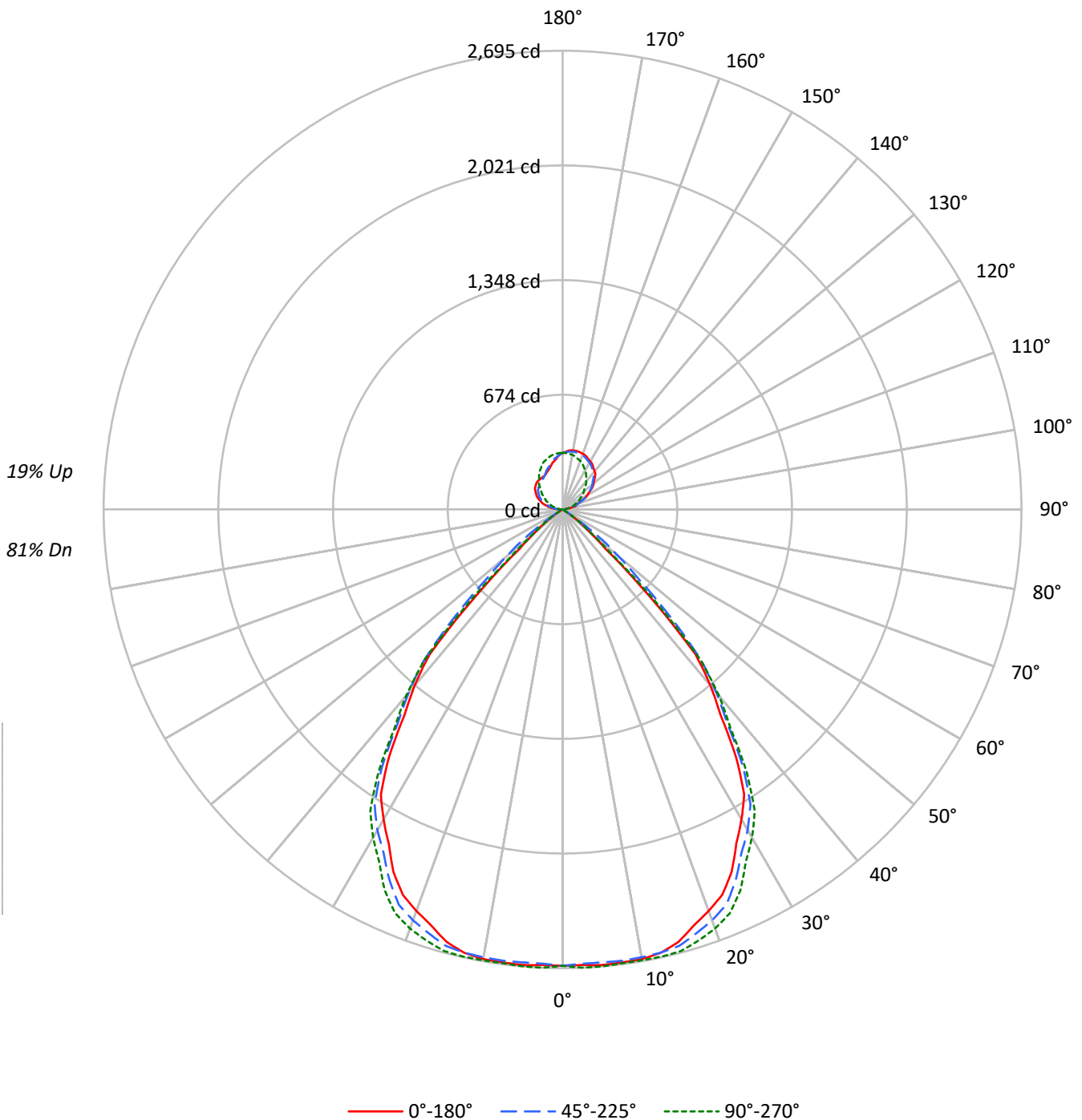
Input Watts (W): 45.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709248

CATALOG NUMBER: DL2W-BB-M-025U-100D-935-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	0	
RCR																						
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81	
1	108	104	102	99	103	100	98	96	93	91	89	86	84	83	79	78	77	77	77	77	74	
2	101	95	91	87	97	92	88	84	85	82	79	79	77	75	74	72	70	70	70	70	68	
3	94	87	81	77	91	84	79	75	79	74	71	74	70	67	69	66	64	64	64	64	62	
4	88	80	73	68	85	77	71	67	72	68	64	68	64	61	64	61	58	58	58	58	56	
5	83	73	66	61	79	71	65	60	67	62	58	63	59	55	59	56	53	53	53	53	51	
6	77	67	60	55	74	65	59	54	62	56	52	58	54	50	55	52	49	49	49	49	47	
7	73	62	55	50	70	60	54	49	57	52	48	54	50	46	51	48	45	45	45	45	43	
8	68	57	50	46	66	56	49	45	53	48	44	50	46	42	48	44	41	41	41	41	39	
9	64	53	46	42	62	52	46	41	49	44	40	47	42	39	45	41	38	38	38	38	36	
10	60	49	43	38	58	48	42	38	46	41	37	44	39	36	42	38	35	35	35	35	33	

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

	0°	45°	90°	135°	180°
0°	43285	43285	43285	43285	43285
5°	43548	43290	43663	43290	43548
10°	43970	43790	44086	43790	43970
15°	43973	44356	44896	44356	43973
20°	43113	44123	45010	44123	43113
25°	41854	42838	44003	42838	41854
30°	39194	40531	41480	40531	39194
35°	35043	36459	37162	36459	35043
40°	28475	29612	30148	29612	28475
45°	16468	20670	18349	20670	16468
50°	5348	10807	5853	10807	5348
55°	2092	3852	2035	3852	2092
60°	32	1064	161	1064	32
65°	0	69	0	69	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: 20751 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.2	5.1
10°-20°	749.3	15.0
20°-30°	1104.4	22.2
30°-40°	1130.9	22.7
40°-50°	651.6	13.1
50°-60°	114.0	2.3
60°-70°	4.3	0.1
70°-80°	0.0	0.0
80°-90°	1.8	0.0
90°-100°	26.5	0.5
100°-110°	77.1	1.5
110°-120°	125.7	2.5
120°-130°	159.4	3.2
130°-140°	170.6	3.4
140°-150°	159.3	3.2
150°-160°	131.1	2.6
160°-170°	88.0	1.8
170°-180°	31.2	0.6
0°-30°	2109.9	42.4
0°-40°	3240.7	65.1
0°-60°	4006.3	80.4
0°-90°	4012.5	80.6
90°-120°	229.2	4.6
90°-150°	718.6	14.4
90°-180°	969.0	19.5
0°-180°	4981.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2681	2681	2681	2681	2681	
5°	2687	2671	2694	2671	2687	256
15°	2631	2654	2686	2654	2631	738
25°	2349	2405	2470	2405	2349	1072
35°	1778	1850	1885	1850	1778	1092
45°	721	905	804	905	721	567
55°	74	137	72	137	74	76
65°	0	2	0	2	0	0
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°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2678.5	2682.8	2687.1	2680.9	2671.3	2671.1	2680.4	2688.1	2691.4	2694.6	2691.4
5°	2686.9	2691.4	2695.9	2686.3	2672.0	2670.0	2680.2	2688.6	2691.3	2694.0	2691.3
7.5°	2683.5	2688.6	2693.7	2686.5	2675.3	2673.6	2681.6	2687.7	2688.3	2689.0	2688.3
10°	2681.9	2685.9	2690.0	2682.3	2670.6	2671.3	2684.3	2693.4	2691.2	2689.0	2691.2
12.5°	2667.5	2673.3	2679.1	2673.7	2664.6	2669.4	2688.0	2700.7	2695.6	2690.6	2695.6
15°	2630.7	2637.8	2645.0	2646.8	2646.8	2660.4	2687.6	2705.6	2695.8	2685.9	2695.8
17.5°	2563.0	2572.5	2582.1	2591.3	2600.3	2621.9	2656.2	2679.0	2667.4	2655.8	2667.4
20°	2509.2	2519.4	2529.7	2542.0	2554.9	2581.0	2620.3	2646.4	2633.0	2619.6	2633.0
22.5°	2450.5	2460.8	2471.0	2484.6	2499.4	2526.7	2566.7	2593.5	2580.4	2567.4	2580.4
25°	2349.4	2361.0	2372.7	2382.6	2392.0	2417.2	2458.3	2486.9	2478.5	2470.0	2478.5
27.5°	2210.8	2221.3	2231.7	2246.7	2263.1	2287.2	2319.1	2341.8	2336.8	2331.8	2336.8
30°	2102.3	2115.3	2128.2	2144.9	2162.7	2185.3	2212.5	2232.0	2228.5	2224.9	2228.5
32.5°	1985.0	1997.3	2009.5	2026.2	2044.4	2063.4	2083.1	2098.3	2099.7	2101.1	2099.7
35°	1777.9	1791.3	1804.7	1822.8	1842.4	1857.1	1867.0	1875.6	1880.5	1885.4	1880.5
37.5°	1526.2	1540.2	1554.2	1570.4	1587.4	1600.8	1610.6	1618.2	1619.1	1620.0	1619.1
40°	1351.0	1360.4	1369.8	1383.5	1398.7	1411.2	1421.0	1428.6	1429.5	1430.4	1429.5
42.5°	1156.5	1162.3	1168.1	1183.7	1202.4	1217.8	1229.7	1234.5	1217.5	1200.5	1217.5
45°	721.2	786.8	852.5	882.9	901.7	908.8	904.4	890.2	846.9	803.6	846.9
47.5°	342.3	411.3	480.4	543.2	604.0	614.5	574.7	530.4	472.5	414.6	472.5
50°	212.9	236.6	260.3	333.5	423.2	437.3	375.7	318.8	275.9	233.0	275.9
52.5°	143.0	154.9	166.8	222.1	291.8	298.2	241.2	193.3	172.6	151.9	172.6
55°	74.3	77.9	81.5	105.5	136.3	137.4	108.8	85.7	79.0	72.3	79.0
57.5°	25.1	32.2	39.2	49.4	60.7	60.5	49.0	38.8	32.3	25.9	32.3
60°	1.0	5.9	10.8	20.8	32.4	33.5	24.1	15.7	10.4	5.0	10.4
62.5°	1.0	2.0	3.0	9.5	17.9	18.3	10.7	4.7	3.2	1.8	3.2
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	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°	1.4	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°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2688.1	2680.4	2671.1	2671.3	2680.9	2687.1	2682.8	2678.5
5°	2688.6	2680.2	2670.0	2672.0	2686.3	2695.9	2691.4	2686.9
7.5°	2687.7	2681.6	2673.6	2675.3	2686.5	2693.7	2688.6	2683.5
10°	2693.4	2684.3	2671.3	2670.6	2682.3	2690.0	2685.9	2681.9
12.5°	2700.7	2688.0	2669.4	2664.6	2673.7	2679.1	2673.3	2667.5
15°	2705.6	2687.6	2660.4	2646.8	2646.8	2645.0	2637.8	2630.7
17.5°	2679.0	2656.2	2621.9	2600.3	2591.3	2582.1	2572.5	2563.0
20°	2646.4	2620.3	2581.0	2554.9	2542.0	2529.7	2519.4	2509.2
22.5°	2593.5	2566.7	2526.7	2499.4	2484.6	2471.0	2460.8	2450.5
25°	2486.9	2458.3	2417.2	2392.0	2382.6	2372.7	2361.0	2349.4
27.5°	2341.8	2319.1	2287.2	2263.1	2246.7	2231.7	2221.3	2210.8
30°	2232.0	2212.5	2185.3	2162.7	2144.9	2128.2	2115.3	2102.3
32.5°	2098.3	2083.1	2063.4	2044.4	2026.2	2009.5	1997.3	1985.0
35°	1875.6	1867.0	1857.1	1842.4	1822.8	1804.7	1791.3	1777.9
37.5°	1618.2	1610.6	1600.8	1587.4	1570.4	1554.2	1540.2	1526.2
40°	1428.6	1421.0	1411.2	1398.7	1383.5	1369.8	1360.4	1351.0
42.5°	1234.5	1229.7	1217.8	1202.4	1183.7	1168.1	1162.3	1156.5
45°	890.2	904.4	908.8	901.7	882.9	852.5	786.8	721.2
47.5°	530.4	574.7	614.5	604.0	543.2	480.4	411.3	342.3
50°	318.8	375.7	437.3	423.2	333.5	260.3	236.6	212.9
52.5°	193.3	241.2	298.2	291.8	222.1	166.8	154.9	143.0
55°	85.7	108.8	137.4	136.3	105.5	81.5	77.9	74.3
57.5°	38.8	49.0	60.5	60.7	49.4	39.2	32.2	25.1
60°	15.7	24.1	33.5	32.4	20.8	10.8	5.9	1.0
62.5°	4.7	10.7	18.3	17.9	9.5	3.0	2.0	1.0
65°	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	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	1.2	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: P709248

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