

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: P709247

Luminaire Tested: DL2W-BB-M-025U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709247  
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-930-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: 4790.7 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

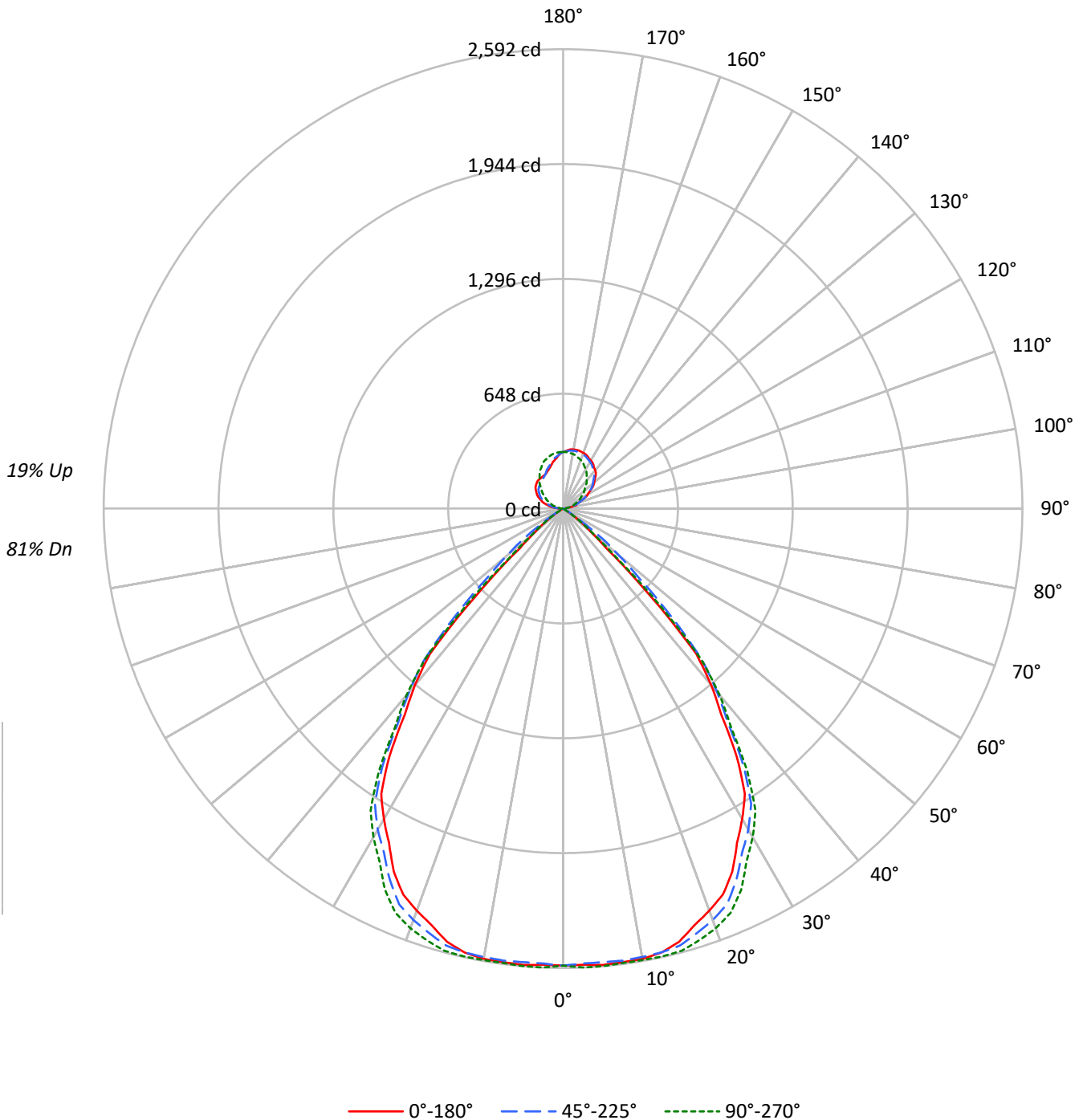
Input Watts (W): 45.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	64	61	58	56	
5	83	73	66	61	79	71	65	60	67	62	58	63	59	55	59	56	53	59	56	53	51	
6	77	67	60	55	74	65	59	54	62	56	52	58	54	50	55	52	49	55	52	49	47	
7	73	62	55	50	70	60	54	49	57	52	48	54	50	46	51	48	45	51	48	45	43	
8	68	57	50	46	66	56	49	45	53	48	44	50	46	42	48	44	41	48	44	41	39	
9	64	53	46	42	62	52	46	41	49	44	40	47	42	39	45	41	38	45	41	38	36	
10	60	49	43	38	58	48	42	38	46	41	37	44	39	36	42	38	35	42	38	35	33	

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

	0°	45°	90°	135°	180°
0°	41632	41632	41632	41632	41632
5°	41885	41636	41995	41636	41885
10°	42291	42118	42401	42118	42291
15°	42293	42661	43181	42661	42293
20°	41465	42437	43292	42437	41465
25°	40256	41201	42321	41201	40256
30°	37697	38983	39895	38983	37697
35°	33705	35067	35743	35067	33705
40°	27387	28480	28995	28480	27387
45°	15840	19880	17648	19880	15840
50°	5144	10394	5629	10394	5144
55°	2013	3704	1959	3704	2013
60°	32	1022	155	1022	32
65°	0	65	0	65	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: 19959 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	5.1
10°-20°	720.6	15.0
20°-30°	1062.2	22.2
30°-40°	1087.7	22.7
40°-50°	626.7	13.1
50°-60°	109.6	2.3
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	1.7	0.0
90°-100°	25.5	0.5
100°-110°	74.1	1.5
110°-120°	120.9	2.5
120°-130°	153.3	3.2
130°-140°	164.1	3.4
140°-150°	153.2	3.2
150°-160°	126.1	2.6
160°-170°	84.6	1.8
170°-180°	30.0	0.6
0°-30°	2029.2	42.4
0°-40°	3116.9	65.1
0°-60°	3853.3	80.4
0°-90°	3859.2	80.6
90°-120°	220.5	4.6
90°-150°	691.1	14.4
90°-180°	932.0	19.5
0°-180°	4790.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2578	2578	2578	2578	2578	
5°	2584	2569	2591	2569	2584	246
15°	2530	2552	2583	2552	2530	710
25°	2260	2313	2376	2313	2260	1031
35°	1710	1779	1813	1779	1710	1050
45°	694	871	773	871	694	545
55°	72	132	70	132	72	74
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	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°	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2576.2	2580.3	2584.4	2578.5	2569.2	2569.1	2578.0	2585.5	2588.5	2591.6	2588.5
5°	2584.3	2588.6	2592.9	2583.7	2569.9	2568.0	2577.9	2585.9	2588.5	2591.1	2588.5
7.5°	2581.0	2585.9	2590.8	2583.9	2573.1	2571.5	2579.1	2585.0	2585.6	2586.2	2585.6
10°	2579.5	2583.3	2587.2	2579.8	2568.6	2569.3	2581.7	2590.5	2588.4	2586.2	2588.4
12.5°	2565.6	2571.1	2576.7	2571.5	2562.8	2567.4	2585.3	2597.6	2592.7	2587.8	2592.7
15°	2530.2	2537.1	2543.9	2545.7	2545.7	2558.7	2584.9	2602.2	2592.8	2583.3	2592.8
17.5°	2465.1	2474.3	2483.5	2492.3	2500.9	2521.8	2554.7	2576.7	2565.5	2554.3	2565.5
20°	2413.3	2423.2	2433.0	2444.9	2457.3	2482.4	2520.2	2545.3	2532.4	2519.6	2532.4
22.5°	2356.9	2366.8	2376.6	2389.7	2403.9	2430.2	2468.7	2494.4	2481.9	2469.3	2481.9
25°	2259.7	2270.9	2282.0	2291.6	2300.6	2324.8	2364.3	2391.9	2383.8	2375.6	2383.8
27.5°	2126.4	2136.4	2146.5	2160.8	2176.6	2199.9	2230.5	2252.3	2247.5	2242.7	2247.5
30°	2022.0	2034.5	2046.9	2062.9	2080.1	2101.8	2128.0	2146.8	2143.3	2139.9	2143.3
32.5°	1909.2	1921.0	1932.7	1948.8	1966.3	1984.6	2003.5	2018.1	2019.5	2020.9	2019.5
35°	1710.0	1722.9	1735.7	1753.1	1772.0	1786.2	1795.6	1803.9	1808.6	1813.4	1808.6
37.5°	1467.9	1481.4	1494.8	1510.5	1526.8	1539.6	1549.1	1556.4	1557.3	1558.1	1557.3
40°	1299.4	1308.4	1317.4	1330.6	1345.2	1357.3	1366.7	1374.0	1374.9	1375.7	1374.9
42.5°	1112.4	1117.9	1123.5	1138.4	1156.5	1171.2	1182.8	1187.3	1171.0	1154.7	1171.0
45°	693.7	756.8	819.9	849.2	867.2	874.1	869.8	856.2	814.5	772.9	814.5
47.5°	329.2	395.6	462.0	522.5	580.9	591.0	552.7	510.1	454.4	398.8	454.4
50°	204.8	227.6	250.3	320.7	407.0	420.6	361.3	306.6	265.4	224.1	265.4
52.5°	137.6	149.0	160.4	213.6	280.6	286.8	232.0	185.9	166.0	146.1	166.0
55°	71.5	74.9	78.4	101.4	131.1	132.1	104.7	82.4	76.0	69.6	76.0
57.5°	24.2	30.9	37.7	47.5	58.4	58.2	47.1	37.3	31.1	24.9	31.1
60°	1.0	5.7	10.4	20.0	31.1	32.2	23.2	15.1	10.0	4.8	10.0
62.5°	1.0	1.9	2.9	9.1	17.2	17.6	10.3	4.5	3.1	1.7	3.1
65°	0.0	0.4	0.9	1.3	1.7	1.7	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	0.3	0.0	0.3
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°	1.3	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°	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2585.5	2578.0	2569.1	2569.2	2578.5	2584.4	2580.3	2576.2
5°	2585.9	2577.9	2568.0	2569.9	2583.7	2592.9	2588.6	2584.3
7.5°	2585.0	2579.1	2571.5	2573.1	2583.9	2590.8	2585.9	2581.0
10°	2590.5	2581.7	2569.3	2568.6	2579.8	2587.2	2583.3	2579.5
12.5°	2597.6	2585.3	2567.4	2562.8	2571.5	2576.7	2571.1	2565.6
15°	2602.2	2584.9	2558.7	2545.7	2545.7	2543.9	2537.1	2530.2
17.5°	2576.7	2554.7	2521.8	2500.9	2492.3	2483.5	2474.3	2465.1
20°	2545.3	2520.2	2482.4	2457.3	2444.9	2433.0	2423.2	2413.3
22.5°	2494.4	2468.7	2430.2	2403.9	2389.7	2376.6	2366.8	2356.9
25°	2391.9	2364.3	2324.8	2300.6	2291.6	2282.0	2270.9	2259.7
27.5°	2252.3	2230.5	2199.9	2176.6	2160.8	2146.5	2136.4	2126.4
30°	2146.8	2128.0	2101.8	2080.1	2062.9	2046.9	2034.5	2022.0
32.5°	2018.1	2003.5	1984.6	1966.3	1948.8	1932.7	1921.0	1909.2
35°	1803.9	1795.6	1786.2	1772.0	1753.1	1735.7	1722.9	1710.0
37.5°	1556.4	1549.1	1539.6	1526.8	1510.5	1494.8	1481.4	1467.9
40°	1374.0	1366.7	1357.3	1345.2	1330.6	1317.4	1308.4	1299.4
42.5°	1187.3	1182.8	1171.2	1156.5	1138.4	1123.5	1117.9	1112.4
45°	856.2	869.8	874.1	867.2	849.2	819.9	756.8	693.7
47.5°	510.1	552.7	591.0	580.9	522.5	462.0	395.6	329.2
50°	306.6	361.3	420.6	407.0	320.7	250.3	227.6	204.8
52.5°	185.9	232.0	286.8	280.6	213.6	160.4	149.0	137.6
55°	82.4	104.7	132.1	131.1	101.4	78.4	74.9	71.5
57.5°	37.3	47.1	58.2	58.4	47.5	37.7	30.9	24.2
60°	15.1	23.2	32.2	31.1	20.0	10.4	5.7	1.0
62.5°	4.5	10.3	17.6	17.2	9.1	2.9	1.9	1.0
65°	0.9	1.3	1.7	1.7	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	1.5	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: P709247

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