

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: P709300

Luminaire Tested: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709300  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, 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-100U-125D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9367.1 lumens  
Efficiency: N/A  
Efficacy: 113.0 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: General Diffuse

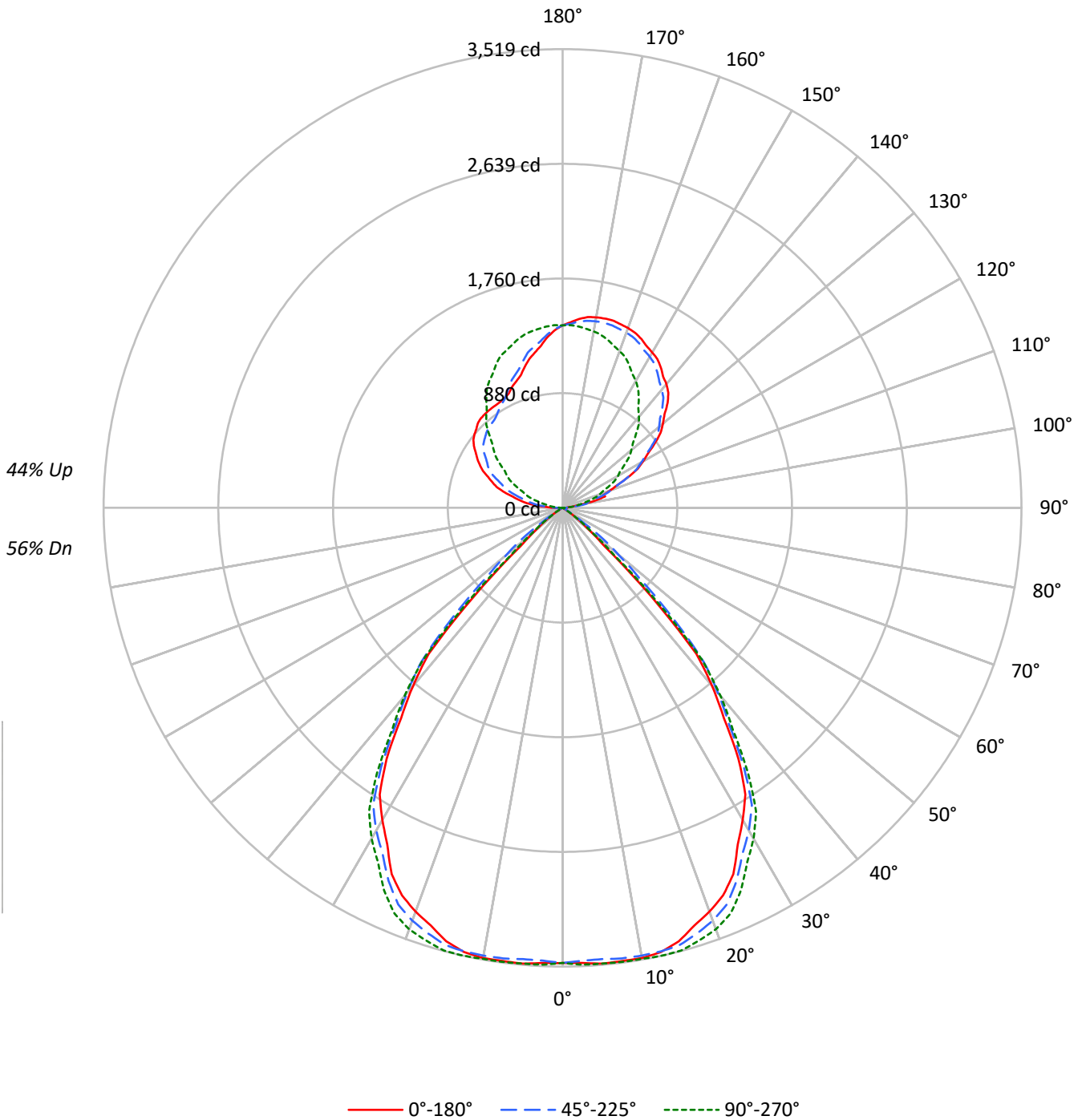
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709300

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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	101	98	95	92	94	91	89	86	79	78	76	68	67	66	58	57	57	52
2	94	88	83	79	88	83	78	75	72	69	67	63	61	59	54	53	51	47
3	88	80	74	69	82	75	70	65	66	62	59	58	55	53	50	48	47	43
4	81	72	66	61	76	68	62	58	60	56	52	53	50	47	47	44	42	39
5	76	66	59	54	71	62	56	51	55	51	47	49	45	43	43	41	38	36
6	71	60	53	48	66	57	51	46	51	46	42	45	42	39	40	37	35	33
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	37	34	32	30
8	62	51	44	39	58	48	42	38	43	38	35	39	35	32	35	32	29	27
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25
10	54	43	37	32	51	41	35	31	37	32	29	34	30	27	30	27	25	23

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

	0°	45°	90°	135°	180°
0°	56373	56373	56373	56373	56373
5°	56879	56328	56879	56328	56879
10°	57484	57179	57605	57179	57484
15°	57549	58028	58766	58028	57549
20°	56620	57888	59103	57888	56620
25°	55228	56239	57671	56239	55228
30°	51505	53271	54611	53271	51505
35°	46365	47744	48839	47744	46365
40°	37595	39144	39774	39144	37595
45°	21870	27366	24279	27366	21870
50°	6968	14124	7922	14124	6968
55°	2792	4919	2702	4919	2792
60°	68	1351	203	1351	68
65°	0	73	42	73	0
70°	0	45	0	45	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: 27585 cd/sqm

TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	3.6
10°-20°	981.2	10.5
20°-30°	1450.0	15.5
30°-40°	1490.2	15.9
40°-50°	860.7	9.2
50°-60°	148.9	1.6
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	7.5	0.1
90°-100°	111.4	1.2
100°-110°	325.4	3.5
110°-120°	530.7	5.7
120°-130°	673.4	7.2
130°-140°	720.5	7.7
140°-150°	672.7	7.2
150°-160°	553.4	5.9
160°-170°	371.2	4.0
170°-180°	131.8	1.4
0°-30°	2765.4	29.5
0°-40°	4255.5	45.4
0°-60°	5265.1	56.2
0°-90°	5278.3	56.3
90°-120°	967.5	10.3
90°-150°	3034.0	32.4
90°-180°	4090.0	43.7
0°-180°	9367.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3492	3492	3492	3492	3492	
5°	3509	3475	3509	3475	3509	335
15°	3443	3472	3516	3472	3443	967
25°	3100	3157	3237	3157	3100	1411
35°	2352	2422	2478	2422	2352	1443
45°	958	1198	1063	1198	958	745
55°	99	175	96	175	99	101
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	30	27	4	39	67	14
95°	33	42	43	144	191	54
105°	339	247	207	370	459	311
115°	552	548	394	587	674	544
125°	864	841	584	734	830	771
135°	1140	1082	795	823	918	873
145°	1315	1268	1019	875	938	822
155°	1430	1392	1209	994	971	659
165°	1488	1451	1336	1167	1120	420
175°	1454	1435	1397	1335	1316	140
180°	1400	1400	1400	1400	1400	

TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5
2.5°	3494.0	3497.4	3500.7	3490.9	3476.6	3475.7	3488.1	3498.5	3503.0	3507.5	3503.0
5°	3509.4	3512.7	3516.0	3499.9	3477.4	3473.4	3487.9	3500.0	3504.7	3509.4	3504.7
7.5°	3506.2	3511.5	3516.7	3504.7	3487.0	3484.4	3496.9	3507.0	3509.9	3512.8	3509.9
10°	3506.2	3510.0	3513.7	3503.1	3487.6	3487.6	3503.1	3514.5	3514.1	3513.6	3514.1
12.5°	3490.2	3496.6	3502.9	3495.2	3482.7	3488.2	3511.5	3527.9	3523.3	3518.7	3523.3
15°	3442.9	3454.2	3465.4	3466.1	3463.3	3479.7	3515.4	3539.2	3527.4	3515.7	3527.4
17.5°	3359.4	3373.5	3387.5	3399.1	3409.9	3438.2	3483.9	3514.0	3497.2	3480.3	3497.2
20°	3295.3	3309.3	3323.4	3337.8	3352.3	3385.9	3438.4	3473.5	3456.6	3439.8	3456.6
22.5°	3217.6	3230.6	3243.5	3258.8	3274.8	3310.9	3367.2	3404.8	3386.4	3368.0	3386.4
25°	3100.1	3105.3	3110.4	3123.7	3139.6	3174.1	3227.0	3263.5	3250.4	3237.2	3250.4
27.5°	2909.4	2921.5	2933.6	2952.3	2973.2	3004.1	3045.0	3074.5	3069.8	3065.1	3069.8
30°	2762.6	2779.9	2797.3	2819.5	2843.4	2871.3	2903.2	2927.4	2928.3	2929.2	2928.3
32.5°	2609.0	2626.7	2644.4	2665.7	2688.1	2715.4	2747.7	2770.7	2766.0	2761.3	2766.0
35°	2352.3	2365.8	2379.4	2395.1	2411.6	2432.9	2459.1	2478.7	2478.2	2477.8	2478.2
37.5°	2033.5	2041.2	2048.9	2067.5	2089.8	2110.0	2128.1	2142.3	2144.6	2147.0	2144.6
40°	1783.7	1792.1	1800.6	1821.7	1847.0	1867.4	1882.9	1893.6	1890.4	1887.1	1890.4
42.5°	1518.7	1529.0	1539.4	1564.3	1594.1	1614.7	1626.0	1629.1	1607.5	1585.8	1607.5
45°	957.8	1040.8	1123.7	1164.5	1191.2	1205.8	1208.1	1193.6	1128.4	1063.3	1128.4
47.5°	436.9	534.3	631.7	714.5	792.5	808.3	762.2	707.2	625.6	544.1	625.6
50°	277.4	305.1	332.7	430.7	552.1	572.5	491.9	418.5	367.0	315.4	367.0
52.5°	184.6	200.6	216.7	292.3	387.9	395.5	315.3	248.9	224.3	199.8	224.3
55°	99.2	103.8	108.5	137.5	174.5	175.0	138.9	110.1	103.0	96.0	103.0
57.5°	37.6	44.7	51.8	64.3	78.5	78.3	63.6	50.6	42.8	35.0	42.8
60°	2.1	7.7	13.4	26.0	41.0	42.7	30.9	20.4	13.4	6.3	13.4
62.5°	1.3	2.4	3.5	12.0	22.8	23.3	13.5	5.7	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	1.1	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	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°	5.9	6.1	6.1	5.5	5.5	5.3	4.4	3.6	2.1	0.8	1.9
90°	29.6	30.6	30.6	27.5	27.5	26.4	22.2	18.0	10.6	4.2	9.5
92.5°	36.4	35.7	35.7	34.2	32.6	29.8	24.7	23.9	25.8	16.1	27.3
95°	32.8	32.8	31.7	31.7	37.0	46.5	68.7	75.0	48.6	43.3	62.4
97.5°	75.0	79.9	89.0	102.7	126.2	134.6	124.5	93.8	88.8	85.6	113.9
100°	142.7	154.3	165.9	179.7	208.2	170.1	132.1	126.8	118.4	119.4	151.1
102.5°	249.2	249.8	254.7	260.0	204.8	181.1	175.2	168.2	154.7	154.9	187.5
105°	339.2	317.0	276.9	249.4	245.2	249.4	249.4	233.6	206.1	207.1	241.0
107.5°	327.4	324.9	326.6	327.6	334.4	335.9	326.8	298.2	269.9	264.0	298.2
110°	385.7	385.7	390.0	391.0	399.5	394.2	382.6	345.6	309.6	301.2	332.9

TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	449.1	450.0	451.7	457.0	461.2	453.4	435.0	394.6	353.6	336.7	367.6
115°	551.7	550.6	550.6	554.8	552.7	544.3	516.8	470.3	417.4	394.2	420.6
117.5°	649.1	643.8	645.1	643.4	646.6	629.7	597.3	540.5	483.8	451.5	470.9
120°	713.4	708.1	710.2	710.2	709.1	688.0	648.9	592.9	529.5	490.4	503.0
122.5°	775.9	772.3	772.7	770.2	767.5	747.2	701.3	642.8	573.4	525.0	532.6
125°	864.5	866.6	860.3	860.3	850.7	830.7	782.0	719.7	644.7	584.4	580.2
127.5°	948.2	951.1	944.8	941.0	933.6	903.4	859.0	796.4	715.9	645.1	628.2
130°	1004.0	1006.1	1004.0	993.4	981.8	953.3	908.9	849.7	764.1	689.0	659.5
132.5°	1059.8	1064.4	1053.9	1045.8	1028.3	998.9	955.4	897.9	812.3	730.5	693.3
135°	1140.3	1137.1	1126.6	1113.9	1095.9	1067.4	1027.2	967.0	885.6	794.7	747.2
137.5°	1199.9	1200.3	1190.0	1176.0	1157.6	1131.0	1093.0	1036.3	953.5	864.5	803.4
140°	1239.6	1237.5	1228.0	1213.2	1197.4	1169.9	1136.1	1081.1	996.6	911.0	842.3
142.5°	1267.5	1269.7	1261.8	1249.6	1231.2	1207.1	1172.4	1117.5	1043.1	954.1	882.0
145°	1314.7	1314.7	1307.3	1298.8	1281.9	1254.4	1228.0	1174.1	1103.3	1018.8	939.5
147.5°	1353.2	1353.8	1349.1	1339.2	1322.7	1299.0	1272.4	1224.2	1158.5	1080.3	1003.3
150°	1376.0	1379.2	1372.8	1365.4	1350.6	1325.3	1302.0	1255.5	1193.1	1123.4	1043.1
152.5°	1398.0	1402.0	1396.5	1387.4	1372.6	1347.2	1327.4	1281.7	1223.6	1158.9	1082.0
155°	1429.9	1433.0	1428.8	1420.4	1403.5	1380.2	1362.2	1320.0	1268.2	1209.0	1140.3
157.5°	1453.6	1458.6	1452.5	1444.9	1426.7	1406.2	1389.3	1350.0	1303.7	1254.2	1192.9
160°	1467.9	1472.2	1466.9	1458.4	1439.4	1421.4	1404.5	1368.6	1327.4	1278.8	1225.9
162.5°	1477.2	1484.0	1477.9	1468.6	1448.7	1431.6	1417.2	1383.0	1345.1	1304.1	1255.5
165°	1488.0	1493.3	1488.0	1478.5	1458.4	1443.6	1432.0	1402.4	1369.6	1335.8	1294.6
167.5°	1488.0	1494.6	1489.5	1481.2	1460.1	1448.7	1439.8	1415.1	1387.8	1359.7	1329.1
170°	1483.8	1491.2	1486.9	1479.5	1458.4	1447.8	1441.5	1419.3	1397.1	1374.9	1348.5
172.5°	1476.2	1483.6	1478.5	1471.9	1450.8	1443.6	1439.8	1421.8	1403.0	1385.1	1363.7
175°	1454.2	1463.7	1460.5	1453.1	1437.3	1432.0	1433.0	1420.4	1407.7	1397.1	1383.4
177.5°	1424.8	1431.6	1428.2	1426.5	1413.8	1412.1	1418.0	1412.1	1406.2	1402.0	1396.1
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5
2.5°	3498.5	3488.1	3475.7	3476.6	3490.9	3500.7	3497.4	3494.0
5°	3500.0	3487.9	3473.4	3477.4	3499.9	3516.0	3512.7	3509.4
7.5°	3507.0	3496.9	3484.4	3487.0	3504.7	3516.7	3511.5	3506.2
10°	3514.5	3503.1	3487.6	3487.6	3503.1	3513.7	3510.0	3506.2
12.5°	3527.9	3511.5	3488.2	3482.7	3495.2	3502.9	3496.6	3490.2
15°	3539.2	3515.4	3479.7	3463.3	3466.1	3465.4	3454.2	3442.9
17.5°	3514.0	3483.9	3438.2	3409.9	3399.1	3387.5	3373.5	3359.4
20°	3473.5	3438.4	3385.9	3352.3	3337.8	3323.4	3309.3	3295.3
22.5°	3404.8	3367.2	3310.9	3274.8	3258.8	3243.5	3230.6	3217.6
25°	3263.5	3227.0	3174.1	3139.6	3123.7	3110.4	3105.3	3100.1
27.5°	3074.5	3045.0	3004.1	2973.2	2952.3	2933.6	2921.5	2909.4
30°	2927.4	2903.2	2871.3	2843.4	2819.5	2797.3	2779.9	2762.6
32.5°	2770.7	2747.7	2715.4	2688.1	2665.7	2644.4	2626.7	2609.0
35°	2478.7	2459.1	2432.9	2411.6	2395.1	2379.4	2365.8	2352.3
37.5°	2142.3	2128.1	2110.0	2089.8	2067.5	2048.9	2041.2	2033.5
40°	1893.6	1882.9	1867.4	1847.0	1821.7	1800.6	1792.1	1783.7
42.5°	1629.1	1626.0	1614.7	1594.1	1564.3	1539.4	1529.0	1518.7
45°	1193.6	1208.1	1205.8	1191.2	1164.5	1123.7	1040.8	957.8
47.5°	707.2	762.2	808.3	792.5	714.5	631.7	534.3	436.9
50°	418.5	491.9	572.5	552.1	430.7	332.7	305.1	277.4
52.5°	248.9	315.3	395.5	387.9	292.3	216.7	200.6	184.6
55°	110.1	138.9	175.0	174.5	137.5	108.5	103.8	99.2
57.5°	50.6	63.6	78.3	78.5	64.3	51.8	44.7	37.6
60°	20.4	30.9	42.7	41.0	26.0	13.4	7.7	2.1
62.5°	5.7	13.5	23.3	22.8	12.0	3.5	2.4	1.3
65°	1.1	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
70°	0.9	1.1	1.1	0.8	0.4	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°	3.4	4.9	6.6	8.9	10.6	11.8	12.5	13.3
90°	16.9	24.3	32.8	44.4	52.8	59.2	62.4	66.6
92.5°	38.9	53.9	65.7	79.9	95.1	103.1	108.0	109.7
95°	89.8	108.9	133.2	154.3	173.3	186.0	193.4	191.3
97.5°	139.3	174.8	202.5	227.0	249.2	264.4	276.5	275.4
100°	180.7	210.3	247.3	276.9	299.1	316.0	329.7	332.9
102.5°	222.1	250.0	290.4	323.4	349.0	367.6	377.9	387.9
105°	280.1	319.2	349.8	390.0	416.4	440.7	448.1	458.7
107.5°	340.7	383.6	417.7	451.1	482.3	502.6	518.5	526.9
110°	380.5	421.7	465.0	496.7	526.3	547.4	563.3	571.7



TEST NUMBER: P709300

CATALOG NUMBER: DL2W-BB-M-100U-125D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	416.0	461.4	508.1	543.2	570.3	594.8	608.1	617.4
115°	468.2	517.8	564.3	609.8	636.2	655.2	666.9	674.3
117.5°	515.9	567.7	613.0	658.8	691.8	705.7	710.2	715.7
120°	546.4	598.2	642.5	685.9	723.9	738.7	748.2	754.6
122.5°	573.4	625.2	672.1	712.9	749.3	770.0	781.2	789.2
125°	615.1	663.7	712.3	755.6	785.2	807.4	822.2	829.6
127.5°	650.2	696.9	746.7	788.4	820.3	843.8	856.0	861.7
130°	676.4	715.5	766.2	809.5	842.3	866.6	877.2	880.3
132.5°	701.7	733.2	781.4	827.3	860.0	881.8	893.2	896.4
135°	740.8	758.8	801.1	845.5	879.3	901.5	912.0	918.4
137.5°	783.9	788.6	814.8	858.3	893.2	914.6	925.1	928.9
140°	812.7	810.6	827.5	863.4	898.3	920.5	931.1	933.2
142.5°	843.1	834.3	840.2	869.3	900.8	922.2	933.6	936.6
145°	894.1	875.0	867.6	882.4	905.7	923.7	936.3	938.5
147.5°	948.8	918.2	901.5	904.2	916.9	929.6	939.5	939.7
150°	986.0	951.1	926.8	923.7	927.9	936.3	943.7	944.8
152.5°	1021.5	984.1	954.7	946.5	944.0	949.0	952.2	952.4
155°	1081.1	1041.0	1002.9	985.0	977.6	975.4	974.4	971.2
157.5°	1137.6	1094.9	1052.8	1033.4	1021.5	1015.0	1010.1	1006.7
160°	1173.1	1128.7	1087.5	1066.3	1053.6	1046.3	1038.9	1034.6
162.5°	1209.4	1167.6	1125.5	1101.0	1088.3	1080.1	1071.8	1065.1
165°	1257.6	1222.7	1180.5	1154.0	1138.2	1132.9	1125.5	1120.2
167.5°	1299.9	1272.8	1235.0	1210.1	1198.0	1188.3	1180.9	1171.4
170°	1325.3	1304.1	1267.1	1243.9	1238.6	1228.0	1220.6	1211.1
172.5°	1345.5	1328.6	1299.3	1280.2	1275.8	1269.5	1263.7	1255.9
175°	1372.8	1364.4	1342.2	1328.4	1328.4	1326.3	1325.3	1315.7
177.5°	1391.8	1387.6	1374.9	1368.2	1374.1	1375.8	1371.5	1363.9
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

(END OF REPORT)