

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: P709310

Luminaire Tested: DL2W-BB-M-125U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

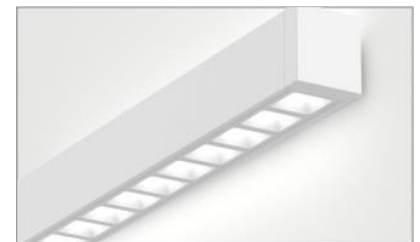
**Test Information**

Test Method: LM-79-2019  
Report Number: P709310  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-125D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9518.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 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

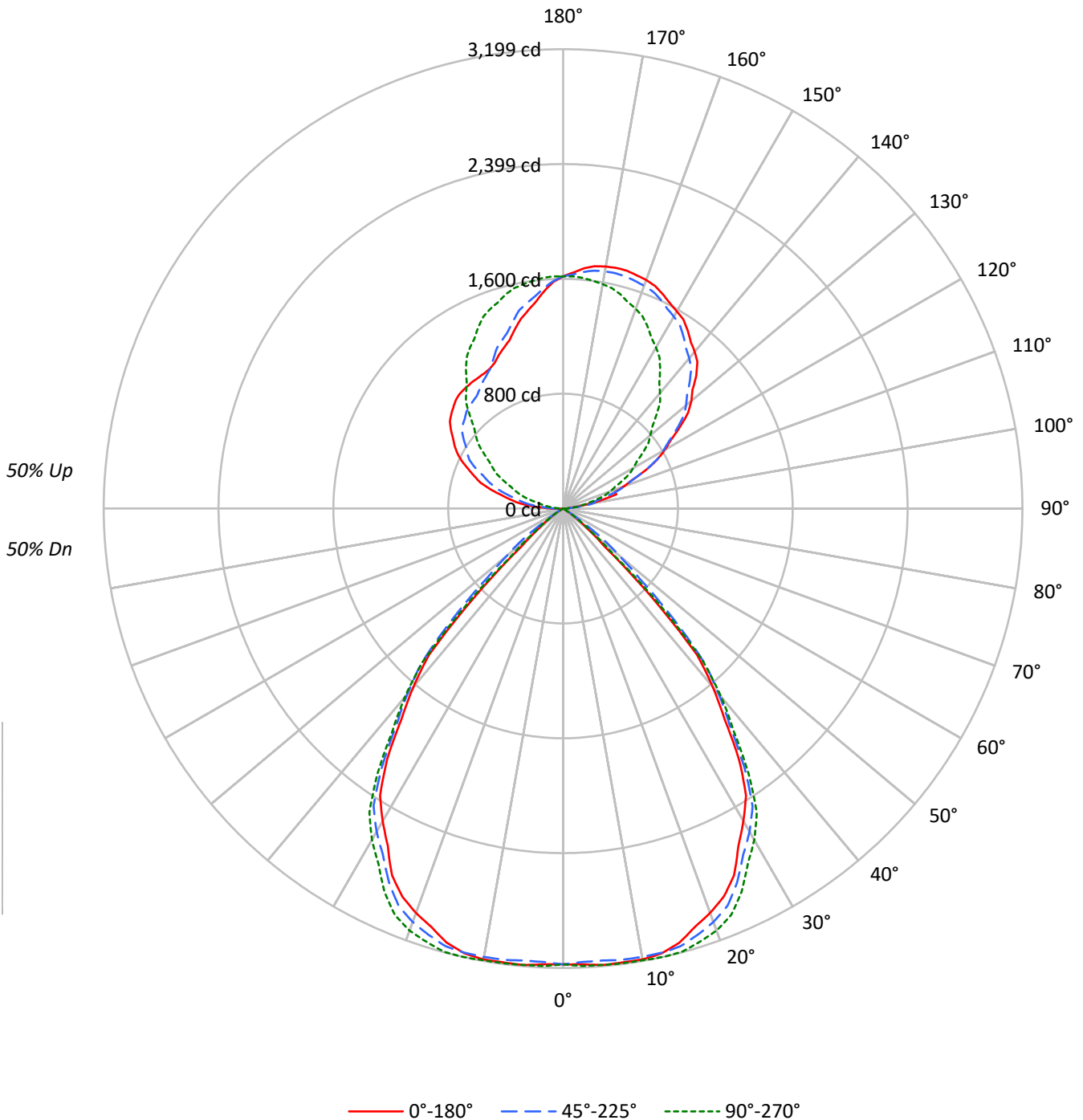
Input Watts (W): 93.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709310

CATALOG NUMBER: DL2W-BB-M-125U-125D-930-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot



TEST NUMBER: P709310

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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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57	50
1	100	96	93	90	92	89	87	84	76	74	73	64	63	62	53	52	52	46
2	93	87	81	77	86	81	76	73	69	66	64	59	57	55	49	48	47	42
3	86	78	72	67	80	73	68	63	63	59	56	54	51	49	46	44	42	38
4	80	71	64	59	74	66	60	56	58	53	50	50	46	44	42	40	38	35
5	74	64	57	52	69	60	54	49	53	48	44	46	42	40	39	37	35	32
6	69	58	51	46	64	55	49	44	48	43	40	42	39	36	36	34	32	29
7	64	53	46	41	60	50	44	40	44	40	36	39	35	33	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	32	30	31	29	27	24
9	56	45	38	34	52	43	37	32	38	33	30	34	30	27	29	27	25	23
10	53	42	35	31	49	39	34	30	35	31	27	31	28	25	27	25	23	21

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

	0°	45°	90°	135°	180°
0°	51245	51245	51245	51245	51245
5°	51705	51205	51705	51205	51705
10°	52257	51978	52367	51978	52257
15°	52316	52751	53422	52751	52316
20°	51471	52623	53728	52623	51471
25°	50206	51124	52426	51124	50206
30°	46820	48428	49644	48428	46820
35°	42147	43400	44396	43400	42147
40°	34176	35584	36157	35584	34176
45°	19881	24877	22071	24877	19881
50°	6335	12841	7201	12841	6335
55°	2536	4472	2457	4472	2536
60°	61	1229	187	1229	61
65°	0	65	38	65	0
70°	0	40	0	40	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: 25078 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.8	3.2
10°-20°	891.9	9.4
20°-30°	1318.2	13.8
30°-40°	1354.7	14.2
40°-50°	782.4	8.2
50°-60°	135.3	1.4
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	8.6	0.1
90°-100°	128.3	1.3
100°-110°	374.6	3.9
110°-120°	611.8	6.4
120°-130°	777.1	8.2
130°-140°	831.5	8.7
140°-150°	776.5	8.2
150°-160°	639.0	6.7
160°-170°	428.7	4.5
170°-180°	152.2	1.6
0°-30°	2513.9	26.4
0°-40°	3868.5	40.6
0°-60°	4786.3	50.3
0°-90°	4800.1	50.4
90°-120°	1114.8	11.7
90°-150°	3499.9	36.8
90°-180°	4720.0	49.6
0°-180°	9518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3174	3174	3174	3174	3174	
5°	3190	3159	3190	3159	3190	304
15°	3130	3156	3196	3156	3130	879
25°	2818	2870	2943	2870	2818	1282
35°	2138	2202	2252	2202	2138	1311
45°	871	1090	967	1090	871	677
55°	90	159	87	159	90	92
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	35	31	6	44	77	16
95°	38	47	50	165	229	63
105°	385	285	238	428	527	356
115°	639	634	453	678	774	626
125°	994	968	676	846	952	889
135°	1312	1247	918	951	1060	1007
145°	1513	1462	1178	1012	1085	946
155°	1646	1607	1396	1148	1122	759
165°	1715	1674	1544	1349	1294	484
175°	1679	1655	1612	1540	1519	161
180°	1617	1617	1617	1617	1617	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9
2.5°	3176.2	3179.3	3182.4	3173.4	3160.5	3159.6	3170.9	3180.3	3184.4	3188.5	3184.4
5°	3190.2	3193.2	3196.2	3181.6	3161.2	3157.5	3170.7	3181.7	3186.0	3190.2	3186.0
7.5°	3187.4	3192.1	3196.9	3186.0	3169.9	3167.5	3178.9	3188.0	3190.7	3193.3	3190.7
10°	3187.4	3190.8	3194.2	3184.5	3170.4	3170.4	3184.5	3194.9	3194.5	3194.1	3194.5
12.5°	3172.8	3178.6	3184.4	3177.3	3166.0	3170.9	3192.2	3207.0	3202.9	3198.7	3202.9
15°	3129.8	3140.1	3150.3	3150.9	3148.4	3163.3	3195.7	3217.3	3206.6	3196.0	3206.6
17.5°	3053.9	3066.7	3079.5	3090.0	3099.8	3125.5	3167.1	3194.5	3179.1	3163.8	3179.1
20°	2995.6	3008.4	3021.2	3034.3	3047.5	3077.9	3125.7	3157.6	3142.3	3127.0	3142.3
22.5°	2925.0	2936.8	2948.5	2962.4	2977.0	3009.8	3061.0	3095.2	3078.5	3061.7	3078.5
25°	2818.2	2822.9	2827.6	2839.6	2854.1	2885.4	2933.6	2966.7	2954.8	2942.8	2954.8
27.5°	2644.8	2655.8	2666.8	2683.8	2702.8	2730.9	2768.1	2794.9	2790.6	2786.4	2790.6
30°	2511.3	2527.1	2542.9	2563.1	2584.9	2610.2	2639.2	2661.1	2662.0	2662.8	2662.0
32.5°	2371.7	2387.8	2403.9	2423.3	2443.6	2468.5	2497.8	2518.7	2514.5	2510.2	2514.5
35°	2138.3	2150.7	2163.0	2177.3	2192.2	2211.6	2235.5	2253.3	2252.9	2252.4	2252.9
37.5°	1848.6	1855.5	1862.5	1879.5	1899.8	1918.1	1934.6	1947.5	1949.6	1951.7	1949.6
40°	1621.5	1629.2	1636.8	1656.0	1679.0	1697.6	1711.6	1721.4	1718.4	1715.5	1718.4
42.5°	1380.6	1390.0	1399.4	1422.0	1449.1	1467.9	1478.2	1481.0	1461.3	1441.6	1461.3
45°	870.7	946.1	1021.5	1058.6	1082.9	1096.1	1098.3	1085.0	1025.8	966.6	1025.8
47.5°	397.2	485.7	574.3	649.6	720.4	734.8	692.9	642.9	568.8	494.6	568.8
50°	252.2	277.3	302.5	391.5	501.9	520.5	447.2	380.5	333.6	286.7	333.6
52.5°	167.8	182.4	197.0	265.7	352.6	359.5	286.6	226.3	203.9	181.6	203.9
55°	90.1	94.4	98.7	125.0	158.6	159.1	126.3	100.0	93.7	87.3	93.7
57.5°	34.1	40.6	47.1	58.4	71.4	71.2	57.8	46.0	38.9	31.8	38.9
60°	1.9	7.0	12.1	23.7	37.3	38.8	28.1	18.5	12.1	5.8	12.1
62.5°	1.2	2.2	3.2	10.9	20.8	21.2	12.3	5.2	3.5	1.9	3.5
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.1	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°	6.9	6.9	6.7	6.7	6.2	6.2	5.6	4.0	2.5	1.2	2.3
90°	34.6	34.6	33.7	33.7	30.8	30.8	27.9	20.2	12.5	5.8	11.5
92.5°	41.5	41.5	40.6	39.8	37.7	34.6	28.7	28.7	27.1	17.3	31.5
95°	37.5	37.5	36.5	37.5	41.4	52.9	76.9	84.6	57.7	50.0	72.1
97.5°	87.7	90.4	99.6	116.6	146.8	152.2	144.7	107.7	104.5	100.6	132.0
100°	173.1	178.9	190.4	205.8	241.4	191.4	150.0	150.0	141.4	137.5	171.2
102.5°	278.5	281.2	293.5	295.1	236.0	209.1	198.5	194.7	178.3	176.0	215.8
105°	384.7	364.5	320.3	287.6	284.7	284.7	283.7	266.4	243.3	238.5	279.9
107.5°	377.4	372.2	374.7	378.2	382.6	386.1	376.1	347.4	309.5	303.7	343.2
110°	448.2	441.5	446.3	452.0	454.9	456.9	437.6	398.2	358.8	349.1	384.7

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	520.5	517.6	517.8	525.9	525.7	525.3	500.7	452.8	405.7	389.9	424.0
115°	638.6	633.8	626.1	635.7	637.7	630.0	596.3	540.5	481.9	453.0	485.7
117.5°	740.6	739.0	741.4	745.2	742.5	730.6	687.3	624.2	559.2	519.9	543.0
120°	817.5	813.7	817.5	821.4	815.6	794.4	751.2	685.8	610.7	564.6	580.0
122.5°	891.4	890.6	889.9	885.2	885.6	861.4	811.2	742.7	665.4	609.2	614.6
125°	994.5	998.3	993.5	987.8	981.0	954.1	901.2	831.0	743.5	676.1	669.4
127.5°	1098.8	1099.3	1089.9	1084.3	1072.8	1041.6	988.2	919.1	824.5	747.9	723.8
130°	1165.7	1164.7	1156.1	1147.4	1132.0	1103.2	1047.4	975.3	882.9	792.5	760.8
132.5°	1222.6	1224.0	1213.8	1206.7	1187.4	1157.0	1105.9	1034.5	936.0	841.8	800.8
135°	1311.9	1313.8	1301.3	1285.0	1262.8	1231.1	1187.8	1119.5	1021.4	917.6	863.7
137.5°	1384.8	1383.5	1371.1	1356.3	1336.7	1302.7	1262.8	1195.3	1103.2	999.5	923.9
140°	1426.3	1427.3	1415.8	1399.4	1382.1	1350.4	1309.0	1244.6	1153.2	1050.3	972.4
142.5°	1461.7	1463.5	1455.0	1441.0	1420.6	1392.7	1355.9	1293.0	1203.2	1101.1	1017.0
145°	1512.9	1516.8	1509.1	1496.6	1477.3	1447.5	1416.7	1355.2	1272.5	1178.2	1086.8
147.5°	1559.7	1561.8	1555.6	1547.1	1527.5	1499.1	1470.6	1413.8	1336.1	1248.6	1155.9
150°	1585.0	1591.8	1584.1	1576.4	1559.1	1528.3	1505.2	1448.5	1379.2	1295.5	1205.1
152.5°	1612.0	1617.9	1610.2	1601.8	1584.5	1555.2	1533.7	1477.7	1413.8	1335.6	1252.1
155°	1645.6	1653.3	1647.6	1637.9	1620.6	1592.7	1571.6	1520.6	1462.9	1395.6	1317.7
157.5°	1676.8	1682.4	1677.4	1668.5	1647.2	1624.5	1602.4	1558.5	1506.6	1447.9	1380.0
160°	1693.7	1698.5	1692.8	1683.1	1661.0	1639.9	1621.6	1579.3	1531.2	1480.2	1417.7
162.5°	1703.7	1710.8	1705.1	1694.7	1672.6	1653.7	1636.2	1597.0	1553.5	1505.6	1451.5
165°	1714.9	1723.5	1716.8	1706.2	1682.2	1666.8	1653.3	1618.7	1581.2	1543.7	1497.5
167.5°	1716.4	1724.3	1718.2	1709.3	1685.5	1672.4	1661.8	1632.9	1601.2	1571.6	1533.3
170°	1711.0	1719.7	1715.8	1706.2	1683.1	1671.6	1664.9	1639.9	1612.0	1587.0	1557.2
172.5°	1702.6	1710.5	1705.8	1698.5	1675.5	1667.0	1662.6	1641.4	1618.9	1599.3	1576.4
175°	1679.3	1688.0	1683.1	1678.3	1657.2	1652.4	1653.3	1640.8	1625.4	1612.0	1597.5
177.5°	1646.0	1652.2	1648.3	1646.0	1632.9	1632.2	1636.8	1630.6	1623.7	1618.3	1612.2
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9	3173.9
2.5°	3180.3	3170.9	3159.6	3160.5	3173.4	3182.4	3179.3	3176.2
5°	3181.7	3170.7	3157.5	3161.2	3181.6	3196.2	3193.2	3190.2
7.5°	3188.0	3178.9	3167.5	3169.9	3186.0	3196.9	3192.1	3187.4
10°	3194.9	3184.5	3170.4	3170.4	3184.5	3194.2	3190.8	3187.4
12.5°	3207.0	3192.2	3170.9	3166.0	3177.3	3184.4	3178.6	3172.8
15°	3217.3	3195.7	3163.3	3148.4	3150.9	3150.3	3140.1	3129.8
17.5°	3194.5	3167.1	3125.5	3099.8	3090.0	3079.5	3066.7	3053.9
20°	3157.6	3125.7	3077.9	3047.5	3034.3	3021.2	3008.4	2995.6
22.5°	3095.2	3061.0	3009.8	2977.0	2962.4	2948.5	2936.8	2925.0
25°	2966.7	2933.6	2885.4	2854.1	2839.6	2827.6	2822.9	2818.2
27.5°	2794.9	2768.1	2730.9	2702.8	2683.8	2666.8	2655.8	2644.8
30°	2661.1	2639.2	2610.2	2584.9	2563.1	2542.9	2527.1	2511.3
32.5°	2518.7	2497.8	2468.5	2443.6	2423.3	2403.9	2387.8	2371.7
35°	2253.3	2235.5	2211.6	2192.2	2177.3	2163.0	2150.7	2138.3
37.5°	1947.5	1934.6	1918.1	1899.8	1879.5	1862.5	1855.5	1848.6
40°	1721.4	1711.6	1697.6	1679.0	1656.0	1636.8	1629.2	1621.5
42.5°	1481.0	1478.2	1467.9	1449.1	1422.0	1399.4	1390.0	1380.6
45°	1085.0	1098.3	1096.1	1082.9	1058.6	1021.5	946.1	870.7
47.5°	642.9	692.9	734.8	720.4	649.6	574.3	485.7	397.2
50°	380.5	447.2	520.5	501.9	391.5	302.5	277.3	252.2
52.5°	226.3	286.6	359.5	352.6	265.7	197.0	182.4	167.8
55°	100.0	126.3	159.1	158.6	125.0	98.7	94.4	90.1
57.5°	46.0	57.8	71.2	71.4	58.4	47.1	40.6	34.1
60°	18.5	28.1	38.8	37.3	23.7	12.1	7.0	1.9
62.5°	5.2	12.3	21.2	20.8	10.9	3.2	2.2	1.2
65°	1.0	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.1	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°	3.7	5.6	7.7	10.0	12.1	13.3	14.6	15.4
90°	18.3	27.9	38.5	50.0	60.6	66.4	73.1	76.9
92.5°	44.4	59.4	77.7	95.4	110.6	119.5	125.4	127.0
95°	104.8	126.0	151.0	179.9	196.2	213.5	226.0	228.9
97.5°	161.8	199.7	234.5	260.3	286.0	304.9	316.8	320.7
100°	204.9	244.3	287.6	316.4	345.3	362.6	379.9	376.1
102.5°	254.1	291.2	335.3	369.5	403.8	424.9	437.6	443.8
105°	325.1	368.4	405.9	451.1	479.9	504.9	523.2	527.1
107.5°	391.6	441.3	479.0	521.9	556.3	578.4	597.3	603.6
110°	438.6	490.5	536.7	570.3	604.0	630.0	647.3	655.9



TEST NUMBER: P709310

CATALOG NUMBER: DL2W-BB-M-125U-125D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	480.9	533.6	585.9	624.2	660.2	683.8	701.2	710.6
115°	541.5	598.2	649.2	706.0	736.7	756.9	769.4	774.2
117.5°	597.1	654.8	709.8	762.1	799.3	812.7	822.5	828.3
120°	630.9	688.6	744.4	794.4	833.9	855.0	865.6	871.4
122.5°	662.5	721.0	776.0	826.0	865.4	889.7	903.3	907.6
125°	709.8	768.5	823.3	868.5	907.9	934.9	950.3	952.2
127.5°	753.1	803.9	863.5	911.0	948.1	973.1	987.2	993.0
130°	780.0	826.2	885.8	934.9	970.5	999.3	1011.8	1017.6
132.5°	807.7	847.0	902.7	954.1	992.8	1018.5	1031.8	1037.6
135°	853.1	876.2	925.2	977.2	1015.7	1041.6	1055.1	1059.9
137.5°	903.9	909.5	941.8	990.5	1031.4	1056.6	1067.6	1073.8
140°	937.8	934.9	954.1	997.4	1036.8	1062.8	1075.3	1079.1
142.5°	973.9	962.6	971.8	1004.3	1040.7	1065.1	1078.4	1082.2
145°	1031.0	1008.0	1003.2	1021.4	1045.5	1068.6	1081.1	1084.9
147.5°	1093.6	1062.6	1040.3	1046.1	1058.4	1073.6	1085.3	1086.1
150°	1135.9	1100.3	1069.5	1067.6	1071.4	1082.0	1090.7	1090.7
152.5°	1181.3	1137.2	1101.8	1093.8	1090.7	1095.9	1101.5	1100.7
155°	1249.4	1201.3	1157.0	1138.8	1131.1	1125.3	1125.3	1122.4
157.5°	1315.2	1264.2	1218.2	1195.7	1180.7	1172.4	1167.4	1161.7
160°	1359.0	1308.0	1255.1	1234.9	1217.6	1207.1	1201.3	1195.5
162.5°	1398.3	1351.1	1301.3	1271.9	1256.9	1247.1	1240.5	1233.2
165°	1453.3	1411.9	1364.8	1334.0	1318.6	1306.1	1300.4	1293.6
167.5°	1500.8	1467.9	1427.9	1398.5	1387.5	1371.1	1366.5	1353.4
170°	1529.3	1503.3	1464.8	1440.8	1432.1	1419.6	1411.9	1400.4
172.5°	1553.9	1532.5	1501.8	1480.0	1479.1	1465.0	1458.9	1451.9
175°	1586.0	1572.5	1548.5	1532.1	1537.9	1531.2	1530.2	1518.7
177.5°	1606.8	1603.7	1588.3	1581.4	1586.0	1586.8	1586.8	1578.3
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

(END OF REPORT)