

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: P709307

Luminaire Tested: DL2W-BB-M-125U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709307  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-100D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8567.4 lumens  
Efficiency: N/A  
Efficacy: 104.4 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: General Diffuse

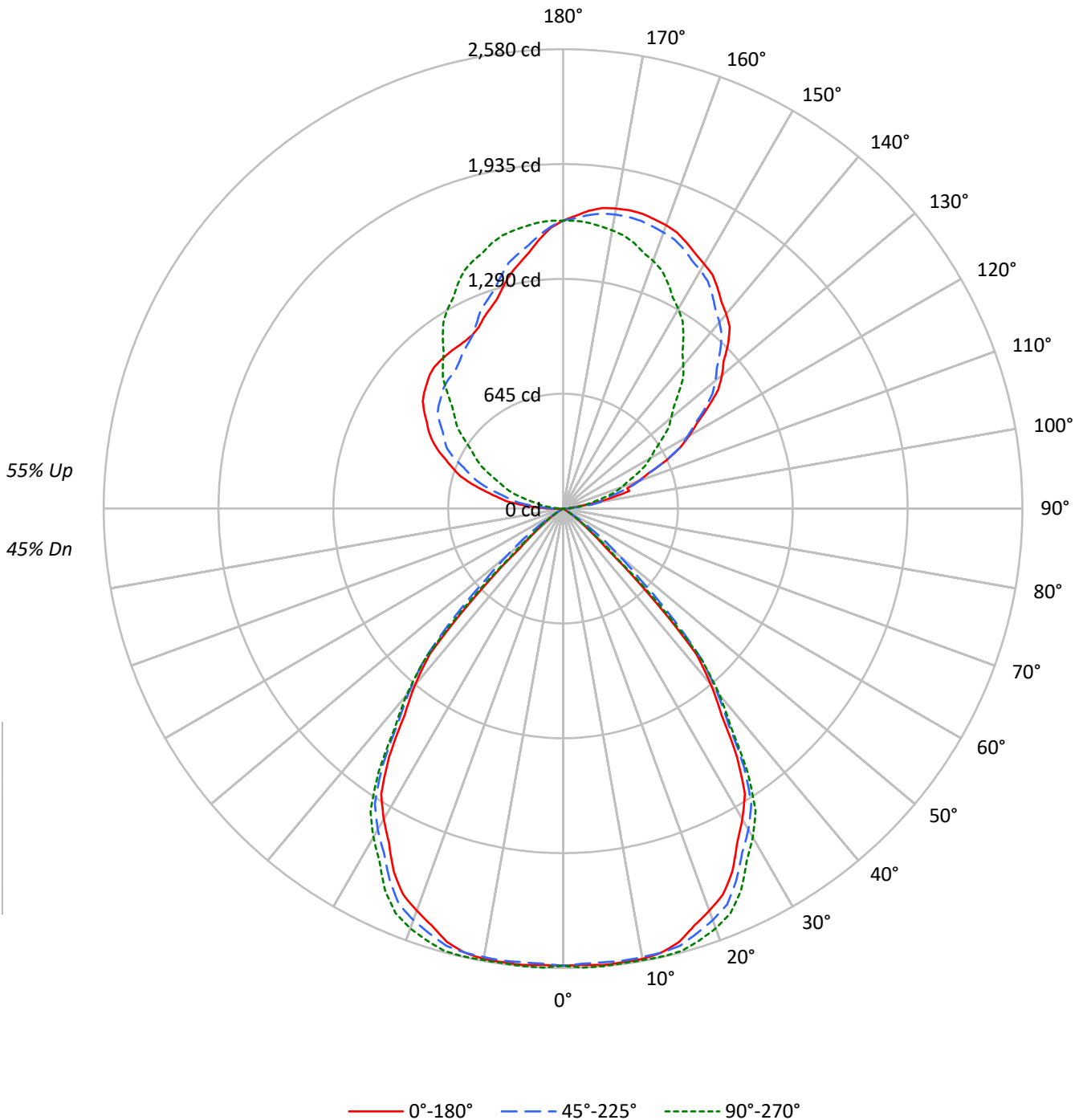
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45		
1	98	95	92	89	90	87	85	82	73	71	70	60	59	58	48	47	47	41		
2	91	85	80	76	84	78	74	70	66	63	61	55	53	51	45	43	42	38		
3	84	76	70	65	78	71	65	61	60	56	53	50	48	46	41	40	38	34		
4	78	69	62	57	72	64	58	54	55	51	47	46	43	41	38	36	35	31		
5	73	62	55	50	67	58	52	47	50	45	42	43	39	37	35	33	32	28		
6	67	57	50	45	62	53	47	42	46	41	38	39	36	33	33	31	29	26		
7	63	52	45	40	58	48	42	38	42	37	34	36	33	30	31	28	26	24		
8	59	47	41	36	54	45	38	34	39	34	31	33	30	27	28	26	24	22		
9	55	44	37	32	51	41	35	31	36	31	28	31	28	25	27	24	22	20		
10	51	40	34	29	48	38	32	28	33	29	26	29	25	23	25	22	20	19		

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

	0°	45°	90°	135°	180°
0°	41453	41453	41453	41453	41453
5°	41705	41457	41814	41457	41705
10°	42109	41937	42219	41937	42109
15°	42111	42477	42995	42477	42111
20°	41287	42254	43105	42254	41287
25°	40084	41023	42140	41023	40084
30°	37535	38815	39724	38815	37535
35°	33559	34916	35589	34916	33559
40°	27269	28357	28871	28357	27269
45°	15771	19795	17571	19795	15771
50°	5122	10350	5606	10350	5122
55°	2004	3689	1951	3689	2004
60°	32	1019	155	1019	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: 19872 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.4	2.9
10°-20°	717.5	8.4
20°-30°	1057.6	12.3
30°-40°	1083.0	12.6
40°-50°	624.0	7.3
50°-60°	109.1	1.3
60°-70°	4.2	0.0
70°-80°	0.0	0.0
80°-90°	8.6	0.1
90°-100°	128.3	1.5
100°-110°	374.6	4.4
110°-120°	611.8	7.1
120°-130°	777.1	9.1
130°-140°	831.5	9.7
140°-150°	776.5	9.1
150°-160°	639.0	7.5
160°-170°	428.7	5.0
170°-180°	152.2	1.8
0°-30°	2020.5	23.6
0°-40°	3103.5	36.2
0°-60°	3836.7	44.8
0°-90°	3849.5	44.9
90°-120°	1114.8	13.0
90°-150°	3499.9	40.9
90°-180°	4720.0	55.1
0°-180°	8567.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2567	2567	2567	2567	2567	
5°	2573	2558	2580	2558	2573	245
15°	2519	2541	2572	2541	2519	707
25°	2250	2303	2365	2303	2250	1027
35°	1703	1771	1806	1771	1703	1046
45°	691	867	770	867	691	543
55°	71	131	69	131	71	73
65°	0	2	0	2	0	0
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°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2565.1	2569.2	2573.3	2567.4	2558.2	2558.0	2566.9	2574.3	2577.4	2580.5	2577.4
5°	2573.2	2577.5	2581.7	2572.5	2558.9	2556.9	2566.8	2574.8	2577.3	2579.9	2577.3
7.5°	2569.9	2574.8	2579.7	2572.8	2562.0	2560.4	2568.0	2573.9	2574.5	2575.1	2574.5
10°	2568.4	2572.2	2576.1	2568.7	2557.6	2558.2	2570.6	2579.4	2577.2	2575.1	2577.2
12.5°	2554.5	2560.1	2565.6	2560.5	2551.8	2556.3	2574.2	2586.4	2581.5	2576.6	2581.5
15°	2519.3	2526.1	2533.0	2534.7	2534.7	2547.7	2573.8	2591.0	2581.6	2572.2	2581.6
17.5°	2454.5	2463.6	2472.8	2481.5	2490.2	2510.9	2543.7	2565.6	2554.5	2543.4	2554.5
20°	2402.9	2412.7	2422.6	2434.3	2446.7	2471.7	2509.4	2534.4	2521.6	2508.7	2521.6
22.5°	2346.7	2356.6	2366.4	2379.4	2393.6	2419.8	2458.1	2483.7	2471.2	2458.7	2471.2
25°	2250.0	2261.1	2272.2	2281.7	2290.7	2314.8	2354.2	2381.6	2373.5	2365.4	2373.5
27.5°	2117.2	2127.2	2137.2	2151.5	2167.3	2190.4	2220.9	2242.6	2237.8	2233.0	2237.8
30°	2013.3	2025.7	2038.1	2054.1	2071.2	2092.7	2118.8	2137.5	2134.1	2130.7	2134.1
32.5°	1901.0	1912.7	1924.4	1940.4	1957.9	1976.0	1994.9	2009.4	2010.8	2012.2	2010.8
35°	1702.6	1715.5	1728.3	1745.6	1764.4	1778.5	1787.9	1796.1	1800.9	1805.6	1800.9
37.5°	1461.6	1475.0	1488.4	1504.0	1520.2	1533.0	1542.4	1549.7	1550.6	1551.4	1550.6
40°	1293.8	1302.8	1311.8	1324.9	1339.4	1351.4	1360.8	1368.1	1368.9	1369.8	1368.9
42.5°	1107.6	1113.1	1118.7	1133.5	1151.5	1166.2	1177.7	1182.2	1166.0	1149.7	1166.0
45°	690.7	753.5	816.4	845.5	863.5	870.3	866.1	852.5	811.0	769.5	811.0
47.5°	327.8	393.9	460.0	520.2	578.4	588.5	550.4	507.9	452.5	397.1	452.5
50°	203.9	226.6	249.2	319.4	405.3	418.8	359.8	305.3	264.2	223.2	264.2
52.5°	137.0	148.4	159.7	212.7	279.4	285.5	231.0	185.1	165.3	145.4	165.3
55°	71.2	74.6	78.0	101.0	130.5	131.6	104.2	82.1	75.7	69.3	75.7
57.5°	24.0	30.8	37.6	47.3	58.1	58.0	46.9	37.1	31.0	24.8	31.0
60°	1.0	5.7	10.4	19.9	31.0	32.1	23.1	15.1	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.5	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°	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°	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2574.3	2566.9	2558.0	2558.2	2567.4	2573.3	2569.2	2565.1
5°	2574.8	2566.8	2556.9	2558.9	2572.5	2581.7	2577.5	2573.2
7.5°	2573.9	2568.0	2560.4	2562.0	2572.8	2579.7	2574.8	2569.9
10°	2579.4	2570.6	2558.2	2557.6	2568.7	2576.1	2572.2	2568.4
12.5°	2586.4	2574.2	2556.3	2551.8	2560.5	2565.6	2560.1	2554.5
15°	2591.0	2573.8	2547.7	2534.7	2534.7	2533.0	2526.1	2519.3
17.5°	2565.6	2543.7	2510.9	2490.2	2481.5	2472.8	2463.6	2454.5
20°	2534.4	2509.4	2471.7	2446.7	2434.3	2422.6	2412.7	2402.9
22.5°	2483.7	2458.1	2419.8	2393.6	2379.4	2366.4	2356.6	2346.7
25°	2381.6	2354.2	2314.8	2290.7	2281.7	2272.2	2261.1	2250.0
27.5°	2242.6	2220.9	2190.4	2167.3	2151.5	2137.2	2127.2	2117.2
30°	2137.5	2118.8	2092.7	2071.2	2054.1	2038.1	2025.7	2013.3
32.5°	2009.4	1994.9	1976.0	1957.9	1940.4	1924.4	1912.7	1901.0
35°	1796.1	1787.9	1778.5	1764.4	1745.6	1728.3	1715.5	1702.6
37.5°	1549.7	1542.4	1533.0	1520.2	1504.0	1488.4	1475.0	1461.6
40°	1368.1	1360.8	1351.4	1339.4	1324.9	1311.8	1302.8	1293.8
42.5°	1182.2	1177.7	1166.2	1151.5	1133.5	1118.7	1113.1	1107.6
45°	852.5	866.1	870.3	863.5	845.5	816.4	753.5	690.7
47.5°	507.9	550.4	588.5	578.4	520.2	460.0	393.9	327.8
50°	305.3	359.8	418.8	405.3	319.4	249.2	226.6	203.9
52.5°	185.1	231.0	285.5	279.4	212.7	159.7	148.4	137.0
55°	82.1	104.2	131.6	130.5	101.0	78.0	74.6	71.2
57.5°	37.1	46.9	58.0	58.1	47.3	37.6	30.8	24.0
60°	15.1	23.1	32.1	31.0	19.9	10.4	5.7	1.0
62.5°	4.5	10.3	17.5	17.1	9.1	2.8	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°	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: P709307

CATALOG NUMBER: DL2W-BB-M-125U-100D-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)