

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: P709309

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

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709309  
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-940-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: 9417.6 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

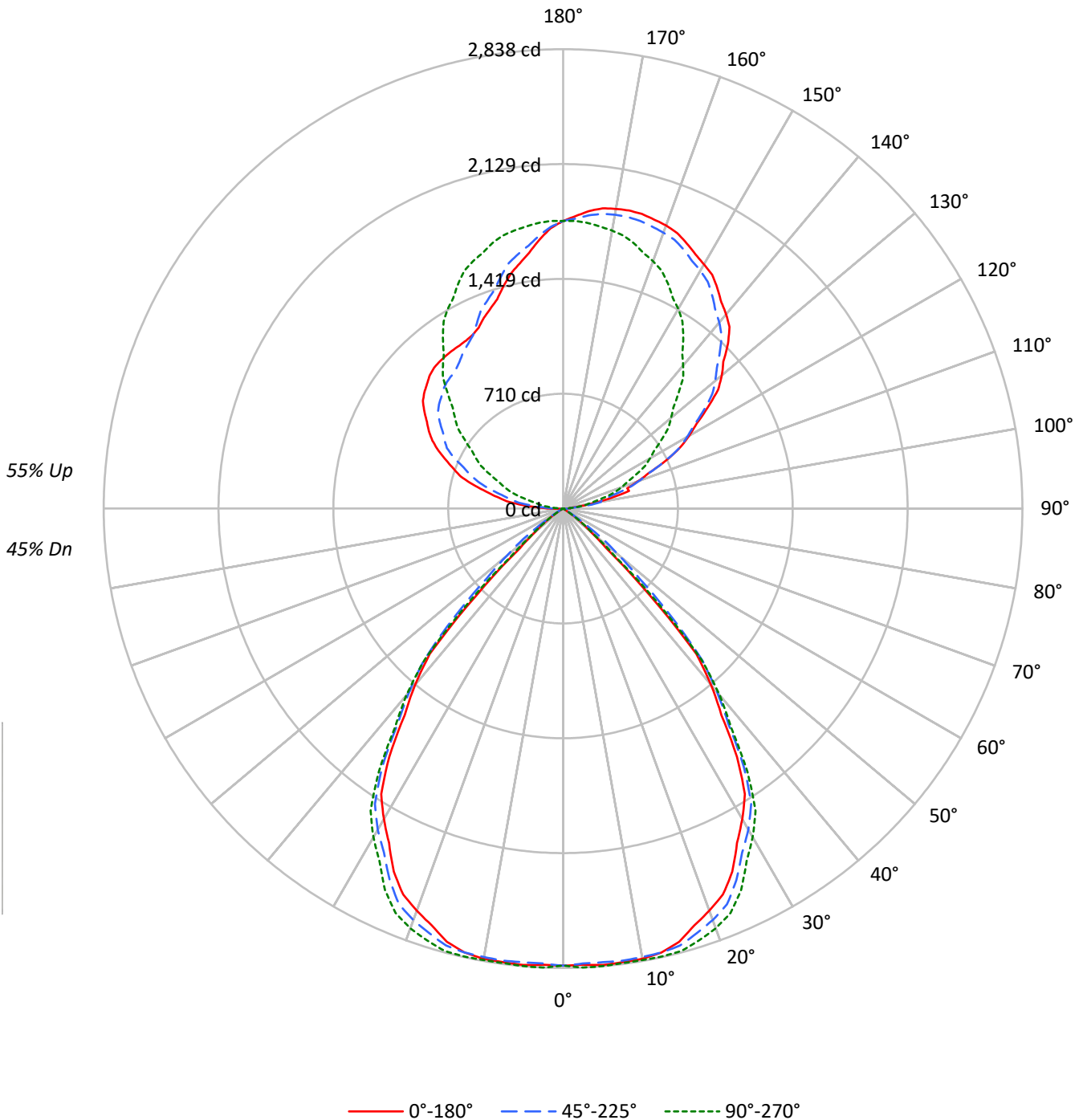
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709309

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

### Luminous Intensity Polar Plot



TEST NUMBER: P709309

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

**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	46	42	43	39	37	36	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	34	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°	45589	45589	45589	45589	45589
5°	45866	45594	45986	45594	45866
10°	46309	46121	46430	46121	46309
15°	46313	46716	47286	46716	46313
20°	45407	46471	47407	46471	45407
25°	44083	45117	46344	45117	44083
30°	41281	42688	43688	42688	41281
35°	36908	38401	39139	38401	36908
40°	29990	31187	31752	31187	29990
45°	17344	21771	19324	21771	17344
50°	5634	11381	6164	11381	5634
55°	2204	4056	2145	4056	2204
60°	36	1121	171	1121	36
65°	0	73	0	73	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: 21856 cd/sqm

TEST NUMBER: P709309

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.9	2.9
10°-20°	789.1	8.4
20°-30°	1163.2	12.4
30°-40°	1191.1	12.6
40°-50°	686.3	7.3
50°-60°	120.0	1.3
60°-70°	4.6	0.0
70°-80°	0.0	0.0
80°-90°	9.5	0.1
90°-100°	141.0	1.5
100°-110°	411.6	4.4
110°-120°	672.3	7.1
120°-130°	853.9	9.1
130°-140°	913.7	9.7
140°-150°	853.2	9.1
150°-160°	702.2	7.5
160°-170°	471.0	5.0
170°-180°	167.2	1.8
0°-30°	2222.1	23.6
0°-40°	3413.2	36.2
0°-60°	4219.5	44.8
0°-90°	4233.6	45.0
90°-120°	1224.9	13.0
90°-150°	3845.7	40.8
90°-180°	5186.0	55.1
0°-180°	9417.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2824	2824	2824	2824	2824	
5°	2830	2813	2837	2813	2830	270
15°	2771	2795	2829	2795	2771	778
25°	2474	2533	2601	2533	2474	1129
35°	1872	1948	1986	1948	1872	1150
45°	760	953	846	953	760	597
55°	78	144	76	144	78	81
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	38	34	6	49	84	18
95°	41	52	55	182	252	69
105°	423	313	262	471	579	392
115°	702	696	498	745	851	688
125°	1093	1063	743	929	1046	976
135°	1442	1370	1008	1045	1165	1106
145°	1662	1607	1295	1112	1192	1040
155°	1808	1765	1533	1261	1233	834
165°	1884	1840	1696	1483	1421	532
175°	1845	1818	1771	1692	1669	177
180°	1776	1776	1776	1776	1776	

TEST NUMBER: P709309

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

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2821.0	2825.6	2830.1	2823.6	2813.4	2813.2	2823.0	2831.2	2834.6	2838.0	2834.6
5°	2829.9	2834.6	2839.3	2829.2	2814.2	2812.1	2822.9	2831.7	2834.5	2837.3	2834.5
7.5°	2826.3	2831.7	2837.1	2829.5	2817.7	2815.9	2824.3	2830.7	2831.4	2832.0	2831.4
10°	2824.6	2828.9	2833.1	2825.0	2812.8	2813.5	2827.1	2836.7	2834.4	2832.0	2834.4
12.5°	2809.4	2815.5	2821.6	2816.0	2806.4	2811.4	2831.1	2844.5	2839.1	2833.7	2839.1
15°	2770.7	2778.2	2785.7	2787.6	2787.6	2802.0	2830.6	2849.6	2839.2	2828.9	2839.2
17.5°	2699.4	2709.4	2719.5	2729.1	2738.6	2761.4	2797.6	2821.6	2809.4	2797.1	2809.4
20°	2642.7	2653.5	2664.3	2677.2	2690.9	2718.4	2759.8	2787.3	2773.2	2759.1	2773.2
22.5°	2580.9	2591.7	2602.5	2616.9	2632.4	2661.2	2703.3	2731.5	2717.8	2704.0	2717.8
25°	2474.5	2486.7	2498.9	2509.4	2519.3	2545.8	2589.1	2619.3	2610.4	2601.4	2610.4
27.5°	2328.5	2339.5	2350.5	2366.2	2383.5	2409.0	2442.5	2466.4	2461.1	2455.9	2461.1
30°	2214.2	2227.9	2241.5	2259.0	2277.8	2301.6	2330.2	2350.8	2347.1	2343.3	2347.1
32.5°	2090.7	2103.5	2116.4	2134.0	2153.2	2173.2	2194.0	2209.9	2211.4	2213.0	2211.4
35°	1872.5	1886.6	1900.7	1919.8	1940.5	1956.0	1966.3	1975.4	1980.5	1985.7	1980.5
37.5°	1607.4	1622.2	1636.9	1654.0	1671.9	1686.0	1696.3	1704.3	1705.3	1706.2	1705.3
40°	1422.9	1432.8	1442.6	1457.1	1473.1	1486.3	1496.6	1504.6	1505.5	1506.5	1505.5
42.5°	1218.1	1224.2	1230.3	1246.7	1266.4	1282.6	1295.2	1300.2	1282.3	1264.4	1282.3
45°	759.6	828.7	897.8	929.9	949.7	957.2	952.5	937.6	891.9	846.3	891.9
47.5°	360.5	433.2	505.9	572.1	636.2	647.2	605.3	558.6	497.6	436.7	497.6
50°	224.3	249.2	274.1	351.2	445.7	460.5	395.7	335.7	290.6	245.4	290.6
52.5°	150.6	163.2	175.7	233.9	307.3	314.0	254.0	203.6	181.8	160.0	181.8
55°	78.3	82.0	85.8	111.1	143.5	144.7	114.6	90.3	83.2	76.2	83.2
57.5°	26.4	33.9	41.3	52.0	63.9	63.8	51.6	40.8	34.1	27.3	34.1
60°	1.1	6.2	11.4	21.9	34.1	35.3	25.4	16.6	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.9	19.3	11.3	4.9	3.4	1.9	3.4
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0	0.5
67.5°	0.0	0.0	0.0	0.3	0.7	0.8	0.8	0.8	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°	7.6	7.6	7.4	7.4	6.8	6.8	6.1	4.4	2.7	1.3	2.5
90°	38.0	38.0	37.0	37.0	33.8	33.8	30.6	22.2	13.7	6.3	12.7
92.5°	45.7	45.7	44.6	43.8	41.4	38.0	31.5	31.5	29.8	19.0	34.7
95°	41.2	41.2	40.2	41.2	45.4	58.1	84.5	93.0	63.4	55.0	79.3
97.5°	96.4	99.3	109.5	128.1	161.3	167.2	158.9	118.4	114.8	110.5	145.0
100°	190.2	196.6	209.3	226.2	265.3	210.3	164.9	164.9	155.4	151.1	188.1
102.5°	306.1	309.0	322.5	324.2	259.3	229.8	218.1	213.9	195.9	193.4	237.2
105°	422.7	400.5	351.9	316.0	312.8	312.8	311.8	292.7	267.4	262.1	307.5
107.5°	414.7	409.0	411.7	415.5	420.4	424.2	413.2	381.7	340.1	333.7	377.1
110°	492.5	485.1	490.4	496.7	499.9	502.0	480.9	437.5	394.2	383.6	422.7

TEST NUMBER: P709309

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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	572.0	568.8	569.0	577.9	577.7	577.2	550.2	497.6	445.8	428.4	465.8
115°	701.7	696.4	688.0	698.6	700.7	692.2	655.2	593.9	529.5	497.8	533.7
117.5°	813.8	812.1	814.6	818.8	815.9	802.8	755.2	685.9	614.4	571.3	596.7
120°	898.3	894.1	898.3	902.5	896.2	872.9	825.4	753.5	671.1	620.4	637.3
122.5°	979.5	978.6	977.8	972.7	973.1	946.5	891.3	816.1	731.1	669.4	675.3
125°	1092.8	1097.0	1091.7	1085.4	1078.0	1048.4	990.2	913.1	816.9	742.9	735.5
127.5°	1207.3	1207.9	1197.6	1191.5	1178.8	1144.5	1085.8	1009.9	905.9	821.8	795.4
130°	1280.9	1279.8	1270.3	1260.8	1243.9	1212.2	1150.9	1071.6	970.2	870.8	835.9
132.5°	1343.4	1344.9	1333.7	1325.9	1304.8	1271.4	1215.1	1136.7	1028.5	924.9	879.9
135°	1441.5	1443.6	1429.9	1411.9	1387.6	1352.7	1305.2	1230.1	1122.3	1008.2	949.0
137.5°	1521.6	1520.1	1506.6	1490.3	1468.8	1431.4	1387.6	1313.4	1212.2	1098.2	1015.2
140°	1567.3	1568.3	1555.6	1537.7	1518.7	1483.8	1438.3	1367.5	1267.1	1154.0	1068.4
142.5°	1606.2	1608.1	1598.8	1583.3	1560.9	1530.3	1489.9	1420.8	1322.1	1209.8	1117.5
145°	1662.4	1666.6	1658.2	1644.4	1623.3	1590.5	1556.7	1489.1	1398.2	1294.6	1194.2
147.5°	1713.7	1716.1	1709.3	1700.0	1678.4	1647.2	1615.9	1553.5	1468.1	1372.0	1270.1
150°	1741.6	1749.0	1740.6	1732.1	1713.1	1679.3	1653.9	1591.6	1515.5	1423.5	1324.2
152.5°	1771.2	1777.8	1769.3	1760.0	1741.0	1708.9	1685.2	1623.7	1553.5	1467.5	1375.8
155°	1808.2	1816.7	1810.3	1799.8	1780.7	1750.1	1726.8	1670.8	1607.4	1533.4	1447.8
157.5°	1842.5	1848.6	1843.1	1833.4	1809.9	1785.0	1760.7	1712.5	1655.4	1590.9	1516.3
160°	1861.1	1866.3	1860.0	1849.4	1825.1	1801.9	1781.8	1735.3	1682.5	1626.4	1557.8
162.5°	1872.1	1879.9	1873.5	1862.1	1837.8	1817.1	1797.9	1754.7	1707.0	1654.3	1595.0
165°	1884.3	1893.8	1886.4	1874.8	1848.4	1831.5	1816.7	1778.6	1737.4	1696.2	1645.5
167.5°	1886.0	1894.7	1887.9	1878.2	1852.0	1837.6	1826.0	1794.3	1759.4	1726.8	1684.8
170°	1880.1	1889.6	1885.4	1874.8	1849.4	1836.8	1829.4	1801.9	1771.2	1743.8	1711.0
172.5°	1870.8	1879.4	1874.4	1866.3	1841.0	1831.7	1826.8	1803.6	1778.8	1757.3	1732.1
175°	1845.2	1854.7	1849.4	1844.2	1820.9	1815.6	1816.7	1802.9	1786.0	1771.2	1755.4
177.5°	1808.6	1815.4	1811.2	1808.6	1794.3	1793.4	1798.5	1791.7	1784.1	1778.2	1771.4
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

TEST NUMBER: P709309

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2831.2	2823.0	2813.2	2813.4	2823.6	2830.1	2825.6	2821.0
5°	2831.7	2822.9	2812.1	2814.2	2829.2	2839.3	2834.6	2829.9
7.5°	2830.7	2824.3	2815.9	2817.7	2829.5	2837.1	2831.7	2826.3
10°	2836.7	2827.1	2813.5	2812.8	2825.0	2833.1	2828.9	2824.6
12.5°	2844.5	2831.1	2811.4	2806.4	2816.0	2821.6	2815.5	2809.4
15°	2849.6	2830.6	2802.0	2787.6	2787.6	2785.7	2778.2	2770.7
17.5°	2821.6	2797.6	2761.4	2738.6	2729.1	2719.5	2709.4	2699.4
20°	2787.3	2759.8	2718.4	2690.9	2677.2	2664.3	2653.5	2642.7
22.5°	2731.5	2703.3	2661.2	2632.4	2616.9	2602.5	2591.7	2580.9
25°	2619.3	2589.1	2545.8	2519.3	2509.4	2498.9	2486.7	2474.5
27.5°	2466.4	2442.5	2409.0	2383.5	2366.2	2350.5	2339.5	2328.5
30°	2350.8	2330.2	2301.6	2277.8	2259.0	2241.5	2227.9	2214.2
32.5°	2209.9	2194.0	2173.2	2153.2	2134.0	2116.4	2103.5	2090.7
35°	1975.4	1966.3	1956.0	1940.5	1919.8	1900.7	1886.6	1872.5
37.5°	1704.3	1696.3	1686.0	1671.9	1654.0	1636.9	1622.2	1607.4
40°	1504.6	1496.6	1486.3	1473.1	1457.1	1442.6	1432.8	1422.9
42.5°	1300.2	1295.2	1282.6	1266.4	1246.7	1230.3	1224.2	1218.1
45°	937.6	952.5	957.2	949.7	929.9	897.8	828.7	759.6
47.5°	558.6	605.3	647.2	636.2	572.1	505.9	433.2	360.5
50°	335.7	395.7	460.5	445.7	351.2	274.1	249.2	224.3
52.5°	203.6	254.0	314.0	307.3	233.9	175.7	163.2	150.6
55°	90.3	114.6	144.7	143.5	111.1	85.8	82.0	78.3
57.5°	40.8	51.6	63.8	63.9	52.0	41.3	33.9	26.4
60°	16.6	25.4	35.3	34.1	21.9	11.4	6.2	1.1
62.5°	4.9	11.3	19.3	18.9	10.0	3.1	2.1	1.1
65°	0.9	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.8	0.8	0.8	0.7	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°	4.0	6.1	8.5	11.0	13.3	14.6	16.1	16.9
90°	20.1	30.6	42.3	55.0	66.6	72.9	80.3	84.5
92.5°	48.8	65.3	85.4	104.8	121.5	131.3	137.8	139.5
95°	115.2	138.4	165.9	197.6	215.6	234.6	248.4	251.5
97.5°	177.8	219.4	257.7	286.0	314.3	335.0	348.1	352.3
100°	225.1	268.4	316.0	347.7	379.4	398.4	417.4	413.2
102.5°	279.2	320.0	368.4	406.0	443.7	466.9	480.9	487.6
105°	357.2	404.8	446.0	495.6	527.4	554.8	574.9	579.1
107.5°	430.3	484.9	526.3	573.4	611.3	635.6	656.3	663.3
110°	481.9	539.0	589.7	626.7	663.7	692.2	711.2	720.8



TEST NUMBER: P709309

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	528.4	586.3	643.8	685.9	725.4	751.4	770.4	780.8
115°	595.0	657.3	713.4	775.7	809.5	831.7	845.5	850.7
117.5°	656.1	719.5	779.9	837.4	878.2	893.0	903.8	910.1
120°	693.3	756.7	818.0	872.9	916.3	939.5	951.1	957.5
122.5°	727.9	792.2	852.6	907.6	950.9	977.6	992.6	997.2
125°	779.9	844.4	904.6	954.3	997.6	1027.2	1044.1	1046.3
127.5°	827.5	883.3	948.8	1001.0	1041.8	1069.3	1084.7	1091.1
130°	857.1	907.8	973.3	1027.2	1066.3	1098.0	1111.8	1118.1
132.5°	887.5	930.6	991.9	1048.4	1090.8	1119.2	1133.8	1140.1
135°	937.4	962.8	1016.7	1073.7	1116.0	1144.5	1159.3	1164.6
137.5°	993.2	999.3	1034.8	1088.3	1133.3	1161.0	1173.1	1179.8
140°	1030.4	1027.2	1048.4	1095.9	1139.3	1167.8	1181.5	1185.8
142.5°	1070.1	1057.7	1067.8	1103.5	1143.5	1170.3	1184.9	1189.1
145°	1132.9	1107.5	1102.3	1122.3	1148.8	1174.1	1187.9	1192.1
147.5°	1201.6	1167.6	1143.1	1149.4	1162.9	1179.6	1192.5	1193.4
150°	1248.1	1209.0	1175.2	1173.1	1177.3	1188.9	1198.4	1198.4
152.5°	1298.0	1249.6	1210.7	1201.8	1198.4	1204.1	1210.3	1209.4
155°	1372.8	1320.0	1271.4	1251.3	1242.8	1236.5	1236.5	1233.3
157.5°	1445.1	1389.1	1338.6	1313.8	1297.4	1288.3	1282.8	1276.4
160°	1493.3	1437.3	1379.2	1357.0	1337.9	1326.3	1320.0	1313.6
162.5°	1536.4	1484.6	1429.9	1397.5	1381.1	1370.3	1363.1	1355.1
165°	1596.9	1551.4	1499.6	1465.8	1448.9	1435.2	1428.8	1421.4
167.5°	1649.1	1612.9	1569.0	1536.6	1524.6	1506.6	1501.5	1487.2
170°	1680.3	1651.8	1609.5	1583.1	1573.6	1559.9	1551.4	1538.7
172.5°	1707.4	1683.9	1650.1	1626.2	1625.2	1609.7	1603.0	1595.4
175°	1742.7	1727.9	1701.5	1683.5	1689.9	1682.5	1681.4	1668.7
177.5°	1765.5	1762.1	1745.2	1737.6	1742.7	1743.5	1743.5	1734.2
180°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5

(END OF REPORT)