

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: P709319

Luminaire Tested: DL2W-BB-M-150U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709319  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, 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-150U-100D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9428.1 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

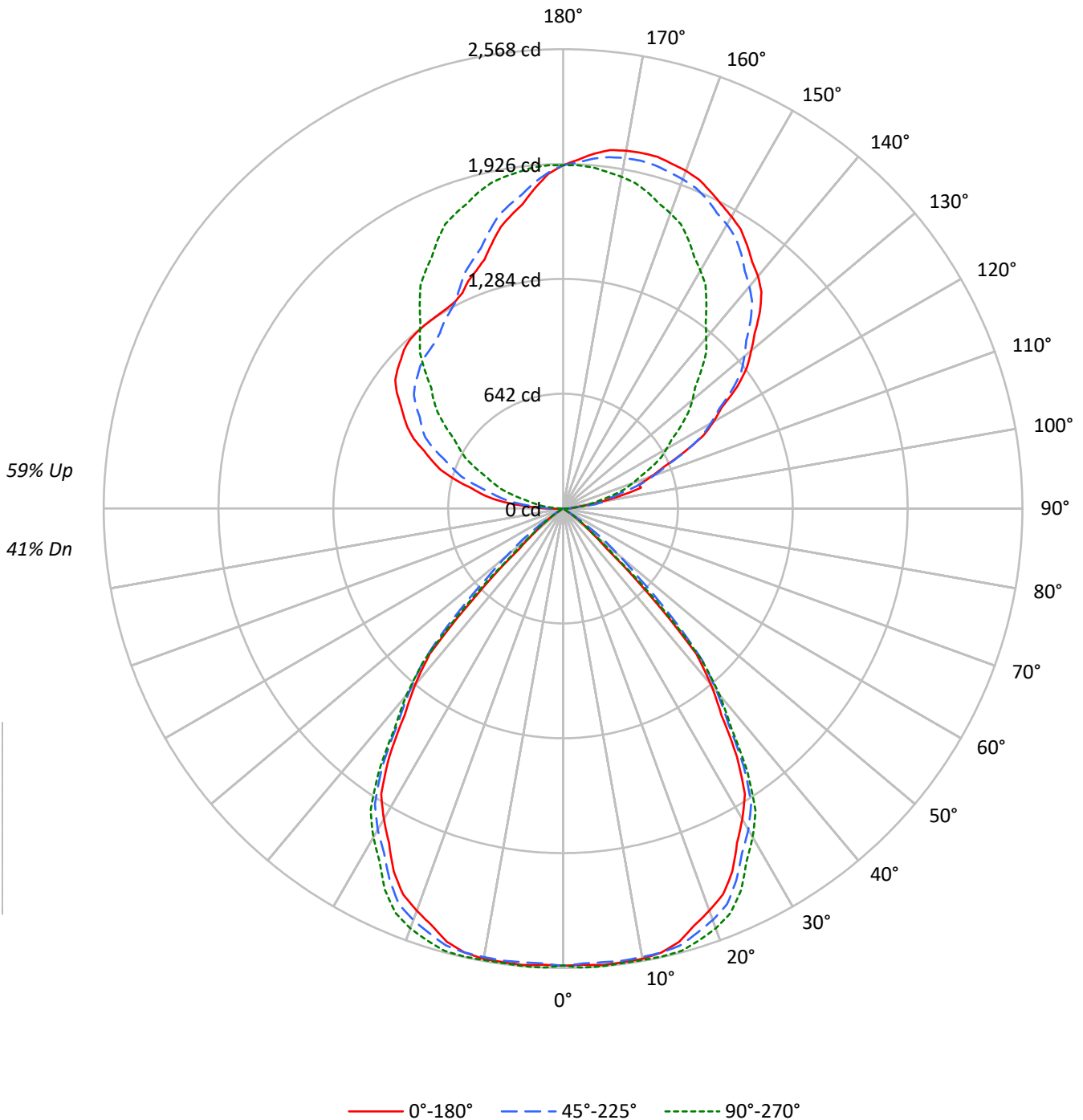
Input Watts (W): 92.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	97	94	90	87	89	86	83	80	71	69	67	57	56	55	44	44	43	37				
2	90	84	79	74	82	77	72	69	64	61	58	52	50	48	41	40	39	34				
3	83	75	69	64	76	69	64	60	58	54	51	48	45	43	38	37	35	31				
4	77	68	61	56	70	62	57	52	53	49	45	44	41	38	35	33	32	28				
5	71	61	54	49	65	57	50	46	48	44	40	40	37	34	33	31	29	26				
6	66	56	48	43	61	52	45	41	44	39	36	37	34	31	30	28	26	23				
7	62	51	44	39	56	47	41	36	40	36	32	34	31	28	28	26	24	21				
8	57	46	39	35	53	43	37	33	37	32	29	31	28	26	26	24	22	20				
9	54	43	36	31	49	40	34	30	34	30	26	29	26	23	24	22	20	18				
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	20	19	17				

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

	0°	45°	90°	135°	180°
0°	41253	41253	41253	41253	41253
5°	41503	41257	41611	41257	41503
10°	41904	41733	42014	41733	41904
15°	41907	42272	42788	42272	41907
20°	41087	42050	42897	42050	41087
25°	39889	40826	41936	40826	39889
30°	37354	38627	39532	38627	37354
35°	33397	34748	35416	34748	33397
40°	27137	28221	28732	28221	27137
45°	15694	19699	17486	19699	15694
50°	5097	10299	5579	10299	5097
55°	1993	3671	1939	3671	1993
60°	32	1012	155	1012	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: 19776 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	2.6
10°-20°	714.1	7.6
20°-30°	1052.5	11.2
30°-40°	1077.8	11.4
40°-50°	621.0	6.6
50°-60°	108.6	1.2
60°-70°	4.1	0.0
70°-80°	0.0	0.0
80°-90°	10.2	0.1
90°-100°	151.8	1.6
100°-110°	443.3	4.7
110°-120°	725.6	7.7
120°-130°	921.7	9.8
130°-140°	986.6	10.5
140°-150°	921.4	9.8
150°-160°	758.3	8.0
160°-170°	508.6	5.4
170°-180°	180.6	1.9
0°-30°	2010.7	21.3
0°-40°	3088.5	32.8
0°-60°	3818.2	40.5
0°-90°	3832.5	40.6
90°-120°	1320.7	14.0
90°-150°	4150.5	44.0
90°-180°	5598.0	59.4
0°-180°	9428.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2555	2555	2555	2555	2555	
5°	2561	2546	2567	2546	2561	244
15°	2507	2529	2560	2529	2507	704
25°	2239	2292	2354	2292	2239	1022
35°	1694	1763	1797	1763	1694	1041
45°	687	863	766	863	687	540
55°	71	130	69	130	71	73
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	40	37	7	51	85	19
95°	44	60	62	196	272	75
105°	452	338	286	505	624	419
115°	746	752	542	803	920	739
125°	1189	1151	804	1004	1135	1052
135°	1556	1481	1093	1128	1257	1194
145°	1795	1738	1396	1199	1286	1124
155°	1953	1907	1658	1364	1331	901
165°	2036	1987	1830	1601	1535	575
175°	1992	1964	1914	1830	1799	191
180°	1919	1919	1919	1919	1919	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0
2.5°	2552.7	2556.8	2560.9	2555.0	2545.8	2545.6	2554.5	2561.9	2564.9	2568.0	2564.9
5°	2560.7	2565.0	2569.2	2560.1	2546.5	2544.6	2554.4	2562.3	2564.9	2567.4	2564.9
7.5°	2557.5	2562.3	2567.2	2560.4	2549.6	2548.1	2555.6	2561.5	2562.1	2562.6	2562.1
10°	2555.9	2559.8	2563.6	2556.3	2545.2	2545.8	2558.2	2566.9	2564.8	2562.6	2564.8
12.5°	2542.2	2547.7	2553.2	2548.1	2539.4	2544.0	2561.8	2573.9	2569.0	2564.2	2569.0
15°	2507.1	2513.9	2520.7	2522.4	2522.4	2535.4	2561.4	2578.5	2569.1	2559.8	2569.1
17.5°	2442.6	2451.7	2460.8	2469.5	2478.1	2498.8	2531.4	2553.2	2542.1	2531.1	2542.1
20°	2391.3	2401.1	2410.9	2422.6	2434.9	2459.8	2497.2	2522.1	2509.4	2496.6	2509.4
22.5°	2335.4	2345.2	2355.0	2367.9	2382.0	2408.1	2446.2	2471.7	2459.2	2446.8	2459.2
25°	2239.1	2250.1	2261.2	2270.7	2279.6	2303.7	2342.8	2370.1	2362.0	2354.0	2362.0
27.5°	2107.0	2116.9	2126.9	2141.1	2156.8	2179.8	2210.2	2231.8	2227.0	2222.2	2227.0
30°	2003.6	2015.9	2028.3	2044.1	2061.1	2082.6	2108.6	2127.2	2123.8	2120.4	2123.8
32.5°	1891.8	1903.4	1915.1	1931.0	1948.4	1966.5	1985.3	1999.7	2001.1	2002.4	2001.1
35°	1694.4	1707.2	1719.9	1737.2	1755.9	1769.9	1779.3	1787.5	1792.1	1796.8	1792.1
37.5°	1454.5	1467.9	1481.2	1496.7	1512.8	1525.6	1535.0	1542.2	1543.1	1543.9	1543.1
40°	1287.5	1296.5	1305.4	1318.5	1333.0	1344.9	1354.2	1361.5	1362.3	1363.2	1362.3
42.5°	1102.2	1107.7	1113.3	1128.1	1145.9	1160.6	1172.0	1176.5	1160.3	1144.1	1160.3
45°	687.3	749.9	812.4	841.5	859.3	866.1	861.9	848.4	807.1	765.8	807.1
47.5°	326.2	392.0	457.8	517.7	575.6	585.6	547.7	505.4	450.3	395.2	450.3
50°	202.9	225.5	248.0	317.8	403.3	416.7	358.0	303.8	262.9	222.1	262.9
52.5°	136.3	147.6	159.0	211.6	278.1	284.2	229.9	184.2	164.5	144.7	164.5
55°	70.8	74.2	77.6	100.5	129.9	130.9	103.7	81.7	75.3	68.9	75.3
57.5°	23.9	30.7	37.4	47.1	57.8	57.7	46.7	37.0	30.8	24.7	30.8
60°	1.0	5.6	10.3	19.8	30.8	31.9	23.0	15.0	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.4	10.2	4.4	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°	8.1	8.3	8.1	7.7	7.5	7.3	6.2	4.6	2.9	1.3	2.9
90°	40.4	41.4	40.4	38.5	37.5	36.5	30.8	23.1	14.4	6.7	14.4
92.5°	49.6	49.1	48.9	46.9	45.2	40.4	33.1	33.1	33.7	21.4	36.0
95°	44.2	44.2	43.3	43.3	51.0	68.3	94.3	93.3	67.3	61.6	86.6
97.5°	102.7	102.9	116.2	144.1	167.5	179.9	167.7	126.0	123.7	118.9	155.2
100°	205.8	202.9	223.1	247.2	272.2	222.2	177.0	176.0	168.3	159.7	206.8
102.5°	327.4	339.1	347.0	347.2	276.0	246.8	237.8	229.9	213.7	208.1	254.5
105°	452.0	432.8	373.2	338.6	333.7	341.4	342.4	313.5	288.5	285.7	331.8
107.5°	443.6	436.8	441.3	449.9	457.6	458.4	446.5	404.7	366.6	361.1	401.5
110°	525.1	522.3	529.0	533.8	541.5	537.6	520.3	473.2	425.1	412.6	453.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	609.8	615.4	615.2	623.8	626.1	621.5	593.4	540.1	484.4	464.9	503.8
115°	746.4	744.4	751.2	753.1	757.9	745.4	703.1	641.5	571.3	542.5	577.1
117.5°	885.0	879.3	879.3	890.0	886.4	860.2	817.1	744.0	665.2	617.5	643.8
120°	970.5	968.5	968.5	972.4	969.5	938.7	892.5	811.8	725.2	667.5	687.7
122.5°	1051.2	1058.6	1052.4	1054.7	1048.7	1018.7	961.0	879.5	785.2	722.1	730.0
125°	1188.8	1181.1	1176.3	1174.4	1167.6	1134.0	1071.4	983.0	881.0	804.1	793.5
127.5°	1295.5	1298.4	1292.8	1285.9	1272.8	1239.4	1175.5	1086.3	979.9	882.9	859.7
130°	1372.5	1375.4	1370.6	1362.9	1343.6	1303.2	1245.5	1157.0	1048.4	944.5	905.1
132.5°	1454.0	1451.5	1445.2	1428.3	1408.3	1370.2	1308.6	1225.5	1109.9	999.9	951.2
135°	1556.2	1557.1	1542.7	1525.4	1502.3	1460.0	1409.0	1327.3	1211.9	1092.6	1022.4
137.5°	1641.8	1640.2	1626.0	1611.6	1582.9	1546.2	1497.1	1419.6	1306.9	1184.5	1096.6
140°	1695.6	1695.6	1682.2	1663.9	1639.9	1602.4	1553.3	1477.3	1371.5	1244.6	1151.3
142.5°	1737.2	1738.0	1724.5	1710.8	1686.8	1653.9	1605.6	1532.7	1426.9	1310.0	1205.1
145°	1794.7	1798.6	1788.0	1776.4	1753.4	1721.6	1683.1	1608.1	1513.9	1396.5	1290.7
147.5°	1849.5	1853.4	1847.0	1835.1	1812.0	1778.9	1743.9	1675.8	1586.8	1482.1	1374.4
150°	1884.2	1888.0	1879.4	1869.7	1850.5	1815.9	1783.2	1715.8	1632.2	1536.0	1432.1
152.5°	1916.5	1920.3	1913.2	1902.1	1879.7	1845.9	1817.8	1752.8	1675.3	1587.5	1486.7
155°	1953.4	1962.1	1955.3	1944.8	1922.6	1890.9	1864.9	1805.3	1735.1	1658.1	1564.8
157.5°	1989.2	1998.6	1989.2	1979.2	1953.2	1926.5	1902.2	1847.4	1786.8	1720.8	1636.4
160°	2009.2	2017.9	2009.2	1997.7	1971.7	1945.7	1924.6	1873.6	1816.8	1756.2	1684.1
162.5°	2021.5	2030.9	2023.8	2010.7	1984.0	1960.3	1940.7	1894.4	1842.2	1787.0	1721.0
165°	2036.1	2046.7	2038.0	2022.7	1996.7	1977.5	1961.1	1919.7	1875.5	1830.3	1777.4
167.5°	2035.9	2048.1	2039.2	2029.0	1999.6	1984.8	1970.7	1937.1	1899.9	1864.0	1821.6
170°	2031.3	2041.9	2036.1	2027.5	1995.7	1983.2	1974.6	1944.8	1913.0	1883.2	1848.6
172.5°	2021.3	2031.1	2024.6	2015.9	1986.5	1976.3	1972.3	1947.8	1920.7	1897.8	1868.6
175°	1991.9	2005.3	2000.5	1992.8	1966.9	1961.1	1962.1	1945.7	1928.4	1914.0	1896.7
177.5°	1952.6	1961.1	1960.3	1953.4	1935.7	1937.3	1943.4	1933.4	1926.5	1921.1	1912.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0	2555.0
2.5°	2561.9	2554.5	2545.6	2545.8	2555.0	2560.9	2556.8	2552.7
5°	2562.3	2554.4	2544.6	2546.5	2560.1	2569.2	2565.0	2560.7
7.5°	2561.5	2555.6	2548.1	2549.6	2560.4	2567.2	2562.3	2557.5
10°	2566.9	2558.2	2545.8	2545.2	2556.3	2563.6	2559.8	2555.9
12.5°	2573.9	2561.8	2544.0	2539.4	2548.1	2553.2	2547.7	2542.2
15°	2578.5	2561.4	2535.4	2522.4	2522.4	2520.7	2513.9	2507.1
17.5°	2553.2	2531.4	2498.8	2478.1	2469.5	2460.8	2451.7	2442.6
20°	2522.1	2497.2	2459.8	2434.9	2422.6	2410.9	2401.1	2391.3
22.5°	2471.7	2446.2	2408.1	2382.0	2367.9	2355.0	2345.2	2335.4
25°	2370.1	2342.8	2303.7	2279.6	2270.7	2261.2	2250.1	2239.1
27.5°	2231.8	2210.2	2179.8	2156.8	2141.1	2126.9	2116.9	2107.0
30°	2127.2	2108.6	2082.6	2061.1	2044.1	2028.3	2015.9	2003.6
32.5°	1999.7	1985.3	1966.5	1948.4	1931.0	1915.1	1903.4	1891.8
35°	1787.5	1779.3	1769.9	1755.9	1737.2	1719.9	1707.2	1694.4
37.5°	1542.2	1535.0	1525.6	1512.8	1496.7	1481.2	1467.9	1454.5
40°	1361.5	1354.2	1344.9	1333.0	1318.5	1305.4	1296.5	1287.5
42.5°	1176.5	1172.0	1160.6	1145.9	1128.1	1113.3	1107.7	1102.2
45°	848.4	861.9	866.1	859.3	841.5	812.4	749.9	687.3
47.5°	505.4	547.7	585.6	575.6	517.7	457.8	392.0	326.2
50°	303.8	358.0	416.7	403.3	317.8	248.0	225.5	202.9
52.5°	184.2	229.9	284.2	278.1	211.6	159.0	147.6	136.3
55°	81.7	103.7	130.9	129.9	100.5	77.6	74.2	70.8
57.5°	37.0	46.7	57.7	57.8	47.1	37.4	30.7	23.9
60°	15.0	23.0	31.9	30.8	19.8	10.3	5.6	1.0
62.5°	4.4	10.2	17.4	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°	4.6	6.5	9.2	11.3	14.0	16.4	17.3	16.9
90°	23.1	32.7	46.2	56.7	70.2	81.8	86.6	84.6
92.5°	52.3	71.9	92.3	111.4	131.8	143.3	148.1	149.3
95°	121.2	149.1	181.8	210.6	235.6	253.9	258.7	272.2
97.5°	190.2	239.1	278.0	311.2	342.6	363.0	374.7	379.3
100°	243.3	291.4	339.5	375.1	412.6	429.9	446.3	457.8
102.5°	300.3	343.0	396.5	441.3	478.0	502.3	512.4	522.4
105°	385.7	434.7	480.9	530.0	568.4	599.2	620.4	624.2
107.5°	465.5	523.4	570.9	620.4	658.3	686.5	707.7	715.0
110°	519.4	578.0	634.8	674.2	717.5	747.3	764.6	778.1



TEST NUMBER: P709319

CATALOG NUMBER: DL2W-BB-M-150U-100D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	568.6	631.1	693.3	743.5	782.1	811.9	831.6	838.9
115°	643.4	706.0	771.4	833.9	875.2	896.4	910.8	919.5
117.5°	709.8	777.9	839.5	902.9	945.6	967.8	972.0	978.9
120°	748.3	819.5	884.9	940.6	988.7	1014.7	1024.3	1028.2
122.5°	788.3	856.4	920.2	977.6	1024.1	1055.5	1071.2	1075.9
125°	843.5	910.8	974.3	1033.9	1077.2	1109.0	1126.3	1134.9
127.5°	891.8	955.1	1021.8	1080.7	1123.2	1154.0	1172.6	1181.9
130°	927.2	982.0	1050.3	1109.9	1153.2	1184.0	1200.3	1208.0
132.5°	961.0	1005.1	1072.6	1132.2	1177.8	1207.8	1224.2	1230.3
135°	1014.7	1040.7	1096.4	1159.9	1206.1	1234.9	1251.3	1257.1
137.5°	1072.8	1078.8	1116.8	1176.3	1223.6	1253.4	1267.6	1272.5
140°	1112.8	1108.0	1133.0	1184.0	1232.1	1261.9	1275.3	1280.2
142.5°	1156.7	1142.6	1153.8	1192.4	1235.1	1265.0	1279.2	1284.0
145°	1223.4	1197.4	1188.8	1209.9	1241.7	1266.7	1282.1	1285.9
147.5°	1299.6	1261.7	1234.2	1240.3	1256.1	1274.0	1286.7	1289.0
150°	1350.4	1303.2	1269.6	1265.7	1271.5	1284.0	1293.6	1293.6
152.5°	1401.1	1350.9	1308.0	1296.5	1294.6	1299.4	1305.9	1305.2
155°	1482.1	1423.5	1374.4	1353.2	1340.7	1336.9	1335.0	1331.1
157.5°	1560.2	1499.4	1444.4	1415.6	1399.8	1390.2	1385.6	1379.6
160°	1614.9	1549.5	1493.7	1461.0	1447.5	1430.2	1426.3	1415.8
162.5°	1657.9	1602.5	1542.9	1510.2	1492.1	1477.9	1472.5	1460.4
165°	1724.5	1676.4	1616.8	1585.0	1562.9	1550.4	1539.8	1535.0
167.5°	1783.6	1742.4	1690.6	1658.1	1646.8	1627.9	1619.1	1612.0
170°	1815.9	1783.2	1739.9	1708.2	1697.6	1684.1	1674.5	1665.8
172.5°	1843.6	1820.9	1780.7	1758.9	1749.1	1737.2	1729.9	1718.2
175°	1880.3	1865.9	1839.9	1820.7	1825.5	1813.9	1812.0	1798.6
177.5°	1906.5	1901.9	1884.2	1876.5	1885.7	1881.9	1881.1	1872.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

(END OF REPORT)