

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: P709320

Luminaire Tested: DL2W-BB-M-150U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709320
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-935-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: 9802.6 lumens
Efficiency: N/A
Efficacy: 105.6 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

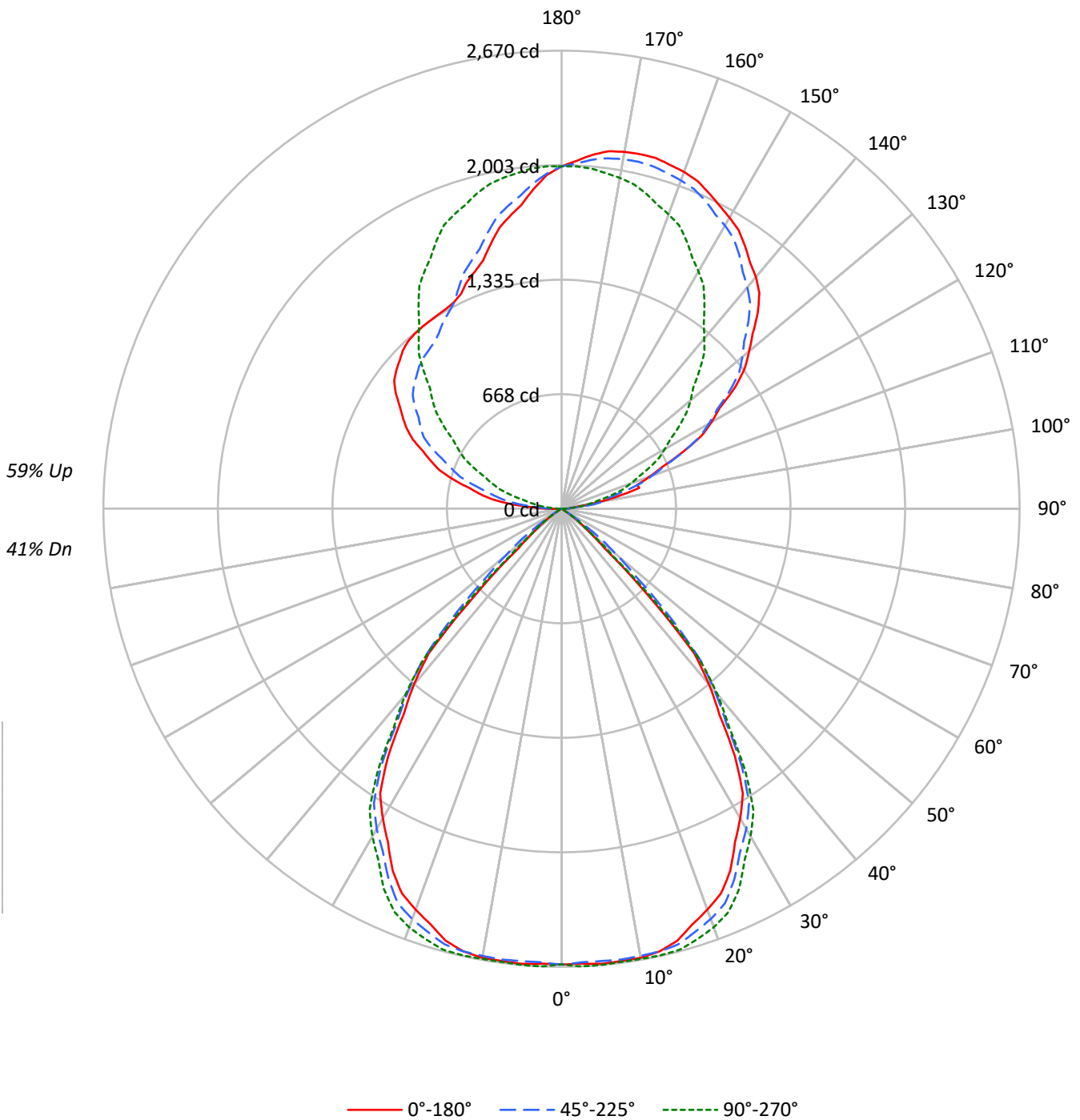
Input Watts (W): 92.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
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	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°	42891	42891	42891	42891	42891
5°	43151	42895	43264	42895	43151
10°	43569	43392	43683	43392	43569
15°	43572	43951	44488	43951	43572
20°	42720	43721	44601	43721	42720
25°	41473	42448	43602	42448	41473
30°	38838	40161	41102	40161	38838
35°	34724	36127	36823	36127	34724
40°	28216	29341	29872	29341	28216
45°	16317	20482	18180	20482	16317
50°	5300	10709	5800	10709	5300
55°	2075	3816	2018	3816	2075
60°	32	1054	161	1054	32
65°	0	69	0	69	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: 20562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	2.6
10°-20°	742.4	7.6
20°-30°	1094.3	11.2
30°-40°	1120.6	11.4
40°-50°	645.7	6.6
50°-60°	112.9	1.2
60°-70°	4.3	0.0
70°-80°	0.0	0.0
80°-90°	10.6	0.1
90°-100°	157.8	1.6
100°-110°	461.0	4.7
110°-120°	754.4	7.7
120°-130°	958.3	9.8
130°-140°	1025.8	10.5
140°-150°	958.0	9.8
150°-160°	788.4	8.0
160°-170°	528.8	5.4
170°-180°	187.7	1.9
0°-30°	2090.6	21.3
0°-40°	3211.2	32.8
0°-60°	3969.8	40.5
0°-90°	3984.7	40.6
90°-120°	1373.2	14.0
90°-150°	4315.3	44.0
90°-180°	5820.0	59.4
0°-180°	9802.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2656	2656	2656	2656	2656	
5°	2662	2647	2669	2647	2662	254
15°	2607	2629	2662	2629	2607	732
25°	2328	2383	2448	2383	2328	1062
35°	1762	1833	1868	1833	1762	1082
45°	715	897	796	897	715	562
55°	74	136	72	136	74	76
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	42	38	7	54	88	20
95°	46	62	64	204	283	78
105°	470	351	297	526	649	436
115°	776	782	564	834	956	768
125°	1236	1196	836	1044	1180	1094
135°	1618	1540	1136	1173	1307	1241
145°	1866	1806	1452	1247	1337	1168
155°	2031	1982	1724	1418	1384	937
165°	2117	2066	1903	1664	1596	597
175°	2071	2042	1990	1903	1870	199
180°	1995	1995	1995	1995	1995	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5
2.5°	2654.1	2658.3	2662.6	2656.5	2646.9	2646.7	2655.9	2663.6	2666.8	2670.0	2666.8
5°	2662.4	2666.9	2671.3	2661.8	2647.6	2645.6	2655.8	2664.1	2666.8	2669.4	2666.8
7.5°	2659.1	2664.1	2669.1	2662.0	2650.9	2649.3	2657.1	2663.2	2663.8	2664.4	2663.8
10°	2657.5	2661.5	2665.4	2657.8	2646.3	2647.0	2659.8	2668.9	2666.6	2664.4	2666.6
12.5°	2643.1	2648.9	2654.6	2649.3	2640.3	2645.0	2663.5	2676.1	2671.1	2666.0	2671.1
15°	2606.7	2613.8	2620.9	2622.6	2622.6	2636.1	2663.1	2680.9	2671.2	2661.5	2671.2
17.5°	2539.6	2549.1	2558.6	2567.6	2576.6	2598.0	2632.0	2654.6	2643.1	2631.6	2643.1
20°	2486.3	2496.5	2506.6	2518.8	2531.6	2557.5	2596.4	2622.3	2609.0	2595.8	2609.0
22.5°	2428.2	2438.3	2448.5	2462.0	2476.6	2503.7	2543.3	2569.8	2556.9	2544.0	2556.9
25°	2328.0	2339.5	2351.0	2360.9	2370.2	2395.2	2435.8	2464.3	2455.9	2447.5	2455.9
27.5°	2190.7	2201.0	2211.4	2226.2	2242.4	2266.4	2298.0	2320.4	2315.5	2310.5	2315.5
30°	2083.2	2096.0	2108.8	2125.3	2143.0	2165.3	2192.3	2211.7	2208.1	2204.6	2208.1
32.5°	1966.9	1979.0	1991.2	2007.7	2025.8	2044.6	2064.1	2079.2	2080.6	2082.0	2080.6
35°	1761.7	1775.0	1788.2	1806.2	1825.6	1840.2	1849.9	1858.5	1863.3	1868.2	1863.3
37.5°	1512.3	1526.2	1540.0	1556.1	1572.9	1586.2	1595.9	1603.5	1604.3	1605.2	1604.3
40°	1338.7	1348.0	1357.3	1370.9	1385.9	1398.3	1408.0	1415.5	1416.4	1417.3	1416.4
42.5°	1146.0	1151.7	1157.5	1172.9	1191.4	1206.7	1218.5	1223.2	1206.4	1189.6	1206.4
45°	714.6	779.7	844.7	874.9	893.5	900.5	896.1	882.1	839.2	796.2	839.2
47.5°	339.2	407.6	476.0	538.3	598.5	608.9	569.4	525.5	468.2	410.9	468.2
50°	211.0	234.5	257.9	330.4	419.4	433.3	372.2	315.8	273.4	230.9	273.4
52.5°	141.7	153.5	165.3	220.0	289.1	295.5	239.0	191.5	171.0	150.5	171.0
55°	73.7	77.2	80.7	104.5	135.0	136.1	107.8	84.9	78.3	71.7	78.3
57.5°	24.9	31.9	38.9	49.0	60.1	60.0	48.6	38.4	32.0	25.7	32.0
60°	1.0	5.9	10.7	20.6	32.1	33.2	23.9	15.6	10.3	5.0	10.3
62.5°	1.0	2.0	2.9	9.4	17.7	18.1	10.6	4.6	3.2	1.8	3.2
65°	0.0	0.4	0.9	1.3	1.8	1.8	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	0.4	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°	8.4	8.6	8.4	8.0	7.8	7.6	6.4	4.8	3.0	1.4	3.0
90°	42.0	43.0	42.0	40.0	39.0	38.0	32.0	24.0	15.0	7.0	15.0
92.5°	51.6	51.0	50.8	48.8	47.0	42.0	34.4	34.4	35.0	22.2	37.4
95°	46.0	46.0	45.0	45.0	53.0	71.0	98.0	97.0	70.0	64.0	90.0
97.5°	106.8	107.0	120.8	149.8	174.2	187.0	174.4	131.0	128.6	123.6	161.4
100°	214.0	211.0	232.0	257.0	283.0	231.0	184.0	183.0	175.0	166.0	215.0
102.5°	340.4	352.6	360.8	361.0	287.0	256.6	247.2	239.0	222.2	216.4	264.6
105°	470.0	450.0	388.0	352.0	347.0	355.0	356.0	326.0	300.0	297.0	345.0
107.5°	461.2	454.2	458.8	467.8	475.8	476.6	464.2	420.8	381.2	375.4	417.4
110°	546.0	543.0	550.0	555.0	563.0	559.0	541.0	492.0	442.0	429.0	471.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	634.0	639.8	639.6	648.6	651.0	646.2	617.0	561.6	503.6	483.4	523.8
115°	776.0	774.0	781.0	783.0	788.0	775.0	731.0	667.0	594.0	564.0	600.0
117.5°	920.2	914.2	914.2	925.4	921.6	894.4	849.6	773.6	691.6	642.0	669.4
120°	1009.0	1007.0	1007.0	1011.0	1008.0	976.0	928.0	844.0	754.0	694.0	715.0
122.5°	1093.0	1100.6	1094.2	1096.6	1090.4	1059.2	999.2	914.4	816.4	750.8	759.0
125°	1236.0	1228.0	1223.0	1221.0	1214.0	1179.0	1114.0	1022.0	916.0	836.0	825.0
127.5°	1347.0	1350.0	1344.2	1337.0	1323.4	1288.6	1222.2	1129.4	1018.8	918.0	893.8
130°	1427.0	1430.0	1425.0	1417.0	1397.0	1355.0	1295.0	1203.0	1090.0	982.0	941.0
132.5°	1511.8	1509.2	1502.6	1485.0	1464.2	1424.6	1360.6	1274.2	1154.0	1039.6	989.0
135°	1618.0	1619.0	1604.0	1586.0	1562.0	1518.0	1465.0	1380.0	1260.0	1136.0	1063.0
137.5°	1707.0	1705.4	1690.6	1675.6	1645.8	1607.6	1556.6	1476.0	1358.8	1231.6	1140.2
140°	1763.0	1763.0	1749.0	1730.0	1705.0	1666.0	1615.0	1536.0	1426.0	1294.0	1197.0
142.5°	1806.2	1807.0	1793.0	1778.8	1753.8	1719.6	1669.4	1593.6	1483.6	1362.0	1253.0
145°	1866.0	1870.0	1859.0	1847.0	1823.0	1790.0	1750.0	1672.0	1574.0	1452.0	1342.0
147.5°	1923.0	1927.0	1920.4	1908.0	1884.0	1849.6	1813.2	1742.4	1649.8	1541.0	1429.0
150°	1959.0	1963.0	1954.0	1944.0	1924.0	1888.0	1854.0	1784.0	1697.0	1597.0	1489.0
152.5°	1992.6	1996.6	1989.2	1977.6	1954.4	1919.2	1890.0	1822.4	1741.8	1650.6	1545.8
155°	2031.0	2040.0	2033.0	2022.0	1999.0	1966.0	1939.0	1877.0	1804.0	1724.0	1627.0
157.5°	2068.2	2078.0	2068.2	2057.8	2030.8	2003.0	1977.8	1920.8	1857.8	1789.2	1701.4
160°	2089.0	2098.0	2089.0	2077.0	2050.0	2023.0	2001.0	1948.0	1889.0	1826.0	1751.0
162.5°	2101.8	2111.6	2104.2	2090.6	2062.8	2038.2	2017.8	1969.6	1915.4	1858.0	1789.4
165°	2117.0	2128.0	2119.0	2103.0	2076.0	2056.0	2039.0	1996.0	1950.0	1903.0	1848.0
167.5°	2116.8	2129.4	2120.2	2109.6	2079.0	2063.6	2049.0	2014.0	1975.4	1938.0	1894.0
170°	2112.0	2123.0	2117.0	2108.0	2075.0	2062.0	2053.0	2022.0	1989.0	1958.0	1922.0
172.5°	2101.6	2111.8	2105.0	2096.0	2065.4	2054.8	2050.6	2025.2	1997.0	1973.2	1942.8
175°	2071.0	2085.0	2080.0	2072.0	2045.0	2039.0	2040.0	2023.0	2005.0	1990.0	1972.0
177.5°	2030.2	2039.0	2038.2	2031.0	2012.6	2014.2	2020.6	2010.2	2003.0	1997.4	1988.6
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5	2656.5
2.5°	2663.6	2655.9	2646.7	2646.9	2656.5	2662.6	2658.3	2654.1
5°	2664.1	2655.8	2645.6	2647.6	2661.8	2671.3	2666.9	2662.4
7.5°	2663.2	2657.1	2649.3	2650.9	2662.0	2669.1	2664.1	2659.1
10°	2668.9	2659.8	2647.0	2646.3	2657.8	2665.4	2661.5	2657.5
12.5°	2676.1	2663.5	2645.0	2640.3	2649.3	2654.6	2648.9	2643.1
15°	2680.9	2663.1	2636.1	2622.6	2622.6	2620.9	2613.8	2606.7
17.5°	2654.6	2632.0	2598.0	2576.6	2567.6	2558.6	2549.1	2539.6
20°	2622.3	2596.4	2557.5	2531.6	2518.8	2506.6	2496.5	2486.3
22.5°	2569.8	2543.3	2503.7	2476.6	2462.0	2448.5	2438.3	2428.2
25°	2464.3	2435.8	2395.2	2370.2	2360.9	2351.0	2339.5	2328.0
27.5°	2320.4	2298.0	2266.4	2242.4	2226.2	2211.4	2201.0	2190.7
30°	2211.7	2192.3	2165.3	2143.0	2125.3	2108.8	2096.0	2083.2
32.5°	2079.2	2064.1	2044.6	2025.8	2007.7	1991.2	1979.0	1966.9
35°	1858.5	1849.9	1840.2	1825.6	1806.2	1788.2	1775.0	1761.7
37.5°	1603.5	1595.9	1586.2	1572.9	1556.1	1540.0	1526.2	1512.3
40°	1415.5	1408.0	1398.3	1385.9	1370.9	1357.3	1348.0	1338.7
42.5°	1223.2	1218.5	1206.7	1191.4	1172.9	1157.5	1151.7	1146.0
45°	882.1	896.1	900.5	893.5	874.9	844.7	779.7	714.6
47.5°	525.5	569.4	608.9	598.5	538.3	476.0	407.6	339.2
50°	315.8	372.2	433.3	419.4	330.4	257.9	234.5	211.0
52.5°	191.5	239.0	295.5	289.1	220.0	165.3	153.5	141.7
55°	84.9	107.8	136.1	135.0	104.5	80.7	77.2	73.7
57.5°	38.4	48.6	60.0	60.1	49.0	38.9	31.9	24.9
60°	15.6	23.9	33.2	32.1	20.6	10.7	5.9	1.0
62.5°	4.6	10.6	18.1	17.7	9.4	2.9	2.0	1.0
65°	0.9	1.3	1.8	1.8	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°	4.8	6.8	9.6	11.8	14.6	17.0	18.0	17.6
90°	24.0	34.0	48.0	59.0	73.0	85.0	90.0	88.0
92.5°	54.4	74.8	96.0	115.8	137.0	149.0	154.0	155.2
95°	126.0	155.0	189.0	219.0	245.0	264.0	269.0	283.0
97.5°	197.8	248.6	289.0	323.6	356.2	377.4	389.6	394.4
100°	253.0	303.0	353.0	390.0	429.0	447.0	464.0	476.0
102.5°	312.2	356.6	412.2	458.8	497.0	522.2	532.8	543.2
105°	401.0	452.0	500.0	551.0	591.0	623.0	645.0	649.0
107.5°	484.0	544.2	593.6	645.0	684.4	713.8	735.8	743.4
110°	540.0	601.0	660.0	701.0	746.0	777.0	795.0	809.0

TEST NUMBER: P709320

CATALOG NUMBER: DL2W-BB-M-150U-100D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	591.2	656.2	720.8	773.0	813.2	844.2	864.6	872.2
115°	669.0	734.0	802.0	867.0	910.0	932.0	947.0	956.0
117.5°	738.0	808.8	872.8	938.8	983.2	1006.2	1010.6	1017.8
120°	778.0	852.0	920.0	978.0	1028.0	1055.0	1065.0	1069.0
122.5°	819.6	890.4	956.8	1016.4	1064.8	1097.4	1113.8	1118.6
125°	877.0	947.0	1013.0	1075.0	1120.0	1153.0	1171.0	1180.0
127.5°	927.2	993.0	1062.4	1123.6	1167.8	1199.8	1219.2	1228.8
130°	964.0	1021.0	1092.0	1154.0	1199.0	1231.0	1248.0	1256.0
132.5°	999.2	1045.0	1115.2	1177.2	1224.6	1255.8	1272.8	1279.2
135°	1055.0	1082.0	1140.0	1206.0	1254.0	1284.0	1301.0	1307.0
137.5°	1115.4	1121.6	1161.2	1223.0	1272.2	1303.2	1318.0	1323.0
140°	1157.0	1152.0	1178.0	1231.0	1281.0	1312.0	1326.0	1331.0
142.5°	1202.6	1188.0	1199.6	1239.8	1284.2	1315.2	1330.0	1335.0
145°	1272.0	1245.0	1236.0	1258.0	1291.0	1317.0	1333.0	1337.0
147.5°	1351.2	1311.8	1283.2	1289.6	1306.0	1324.6	1337.8	1340.2
150°	1404.0	1355.0	1320.0	1316.0	1322.0	1335.0	1345.0	1345.0
152.5°	1456.8	1404.6	1360.0	1348.0	1346.0	1351.0	1357.8	1357.0
155°	1541.0	1480.0	1429.0	1407.0	1394.0	1390.0	1388.0	1384.0
157.5°	1622.2	1559.0	1501.8	1471.8	1455.4	1445.4	1440.6	1434.4
160°	1679.0	1611.0	1553.0	1519.0	1505.0	1487.0	1483.0	1472.0
162.5°	1723.8	1666.2	1604.2	1570.2	1551.4	1536.6	1531.0	1518.4
165°	1793.0	1743.0	1681.0	1648.0	1625.0	1612.0	1601.0	1596.0
167.5°	1854.4	1811.6	1757.8	1724.0	1712.2	1692.6	1683.4	1676.0
170°	1888.0	1854.0	1809.0	1776.0	1765.0	1751.0	1741.0	1732.0
172.5°	1916.8	1893.2	1851.4	1828.8	1818.6	1806.2	1798.6	1786.4
175°	1955.0	1940.0	1913.0	1893.0	1898.0	1886.0	1884.0	1870.0
177.5°	1982.2	1977.4	1959.0	1951.0	1960.6	1956.6	1955.8	1947.0
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

(END OF REPORT)