

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: P709403

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

Issue Date: 3/5/2020

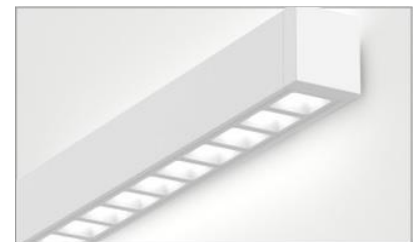
Test Information

Test Method: LM-79-2019
Report Number: P709403
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-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: 9798.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

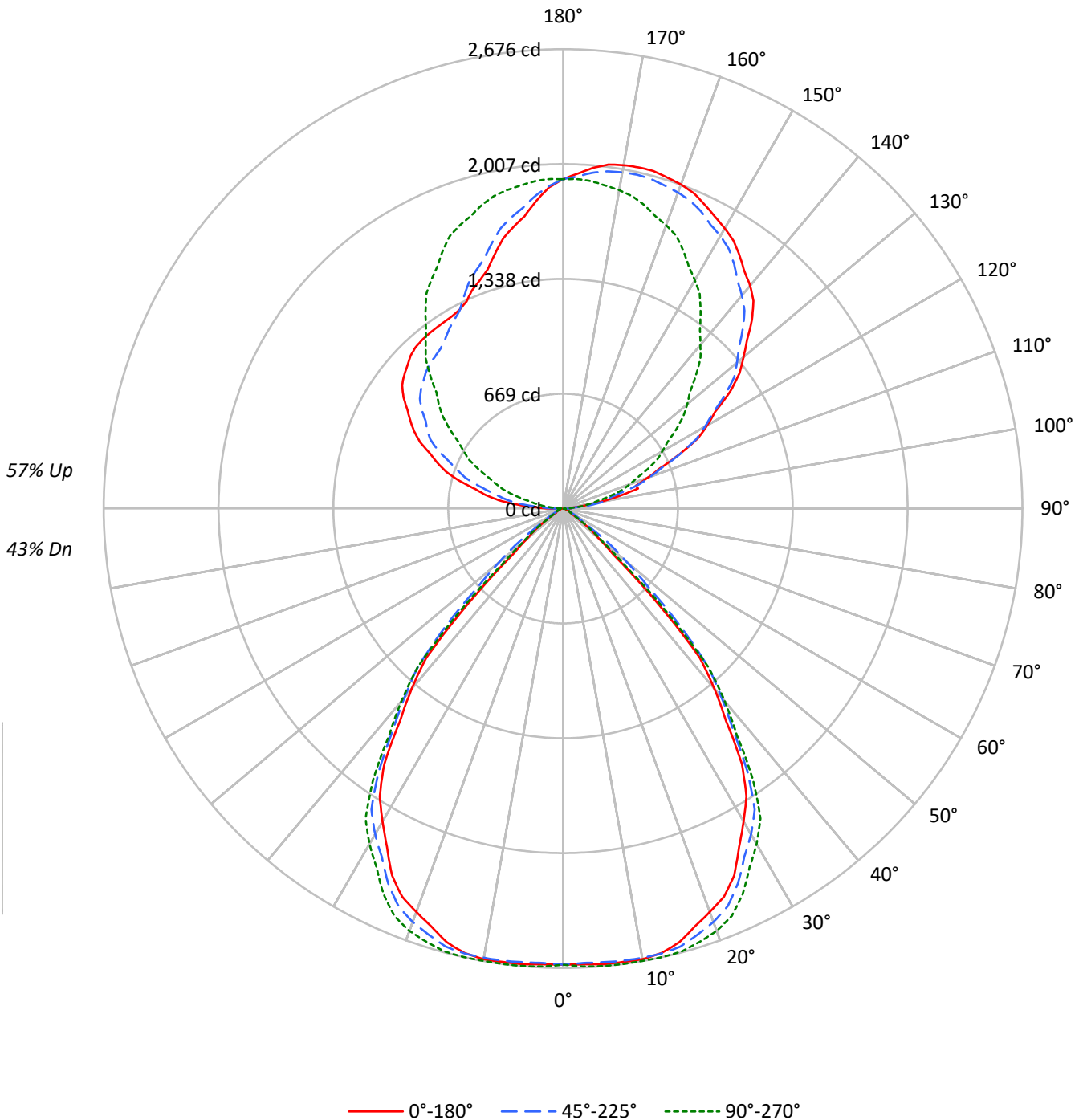
Input Watts (W): 93.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709403

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

Luminous Intensity Polar Plot



TEST NUMBER: P709403

CATALOG NUMBER: DL2W-WB-M-150U-100D-930-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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43		
1	98	94	91	88	89	86	83	81	72	70	68	58	57	56	46	45	45	39		
2	90	84	79	74	83	77	73	69	65	62	59	53	51	49	43	41	40	35		
3	83	75	69	64	76	70	64	60	59	55	52	49	46	44	39	38	36	32		
4	77	68	61	56	71	63	57	52	53	49	45	44	41	39	36	34	33	29		
5	71	61	54	49	66	57	51	46	48	44	40	41	37	35	33	31	30	26		
6	66	56	48	43	61	52	45	41	44	40	36	37	34	31	31	29	27	24		
7	62	51	43	38	57	47	41	36	41	36	32	35	31	28	29	26	24	22		
8	57	46	39	34	53	43	37	33	37	33	29	32	28	26	27	24	22	20		
9	54	43	36	31	50	40	34	30	35	30	27	30	26	24	25	22	21	19		
10	50	39	33	28	46	37	31	27	32	27	24	28	24	22	23	21	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42899	42899	42899	42899	42899
5°	43188	42996	43358	42996	43188
10°	43702	43562	43860	43562	43702
15°	43721	44157	44637	44157	43721
20°	42959	44033	44974	44033	42959
25°	42006	42942	44113	42942	42006
30°	39209	40834	42041	40834	39209
35°	35784	36941	38041	36941	35784
40°	28922	30290	30888	30290	28922
45°	17785	21892	19783	21892	17785
50°	6980	12152	7754	12152	6980
55°	3654	5534	3654	5534	3654
60°	1582	2719	1741	2719	1582
65°	1471	1641	1578	1641	1471
70°	1407	1548	1496	1548	1407
75°	1379	1500	1497	1500	1379
80°	1339	1441	1432	1441	1339
85°	1241	1260	1241	1260	1241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 22112 cd/sqm

TEST NUMBER: P709403

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	2.6
10°-20°	745.9	7.6
20°-30°	1107.0	11.3
30°-40°	1149.8	11.7
40°-50°	691.9	7.1
50°-60°	165.7	1.7
60°-70°	44.9	0.5
70°-80°	25.2	0.3
80°-90°	15.8	0.2
90°-100°	151.8	1.5
100°-110°	443.3	4.5
110°-120°	725.6	7.4
120°-130°	921.7	9.4
130°-140°	986.6	10.1
140°-150°	921.4	9.4
150°-160°	758.3	7.7
160°-170°	508.6	5.2
170°-180°	180.6	1.8
0°-30°	2107.4	21.5
0°-40°	3257.3	33.2
0°-60°	4114.9	42.0
0°-90°	4200.9	42.9
90°-120°	1320.7	13.5
90°-150°	4150.5	42.4
90°-180°	5598.0	57.1
0°-180°	9798.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2657	2657	2657	2657	2657	
5°	2665	2653	2675	2653	2665	254
15°	2616	2642	2670	2642	2616	735
25°	2358	2410	2476	2410	2358	1074
35°	1816	1874	1930	1874	1816	1106
45°	779	959	866	959	779	603
55°	130	197	130	197	130	127
65°	38	43	41	43	38	39
75°	22	24	24	24	22	23
85°	7	7	7	7	7	8
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	

TEST NUMBER: P709403

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

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2657.0	2661.1	2665.2	2659.0	2649.5	2648.9	2657.5	2664.6	2667.3	2670.1	2667.3
5°	2664.7	2669.4	2674.1	2665.9	2653.6	2652.1	2661.5	2669.3	2672.3	2675.2	2672.3
7.5°	2664.1	2669.3	2674.5	2667.6	2656.7	2656.8	2668.0	2676.4	2676.2	2676.0	2676.2
10°	2665.6	2669.5	2673.3	2666.6	2656.3	2657.8	2671.1	2680.4	2677.8	2675.2	2677.8
12.5°	2651.8	2657.7	2663.6	2659.4	2651.9	2656.5	2673.1	2684.6	2680.3	2676.0	2680.3
15°	2615.6	2624.2	2632.7	2635.2	2635.6	2647.8	2671.7	2687.5	2679.0	2670.4	2679.0
17.5°	2552.5	2562.6	2572.7	2582.5	2592.1	2613.2	2645.6	2667.2	2656.6	2646.0	2656.6
20°	2500.2	2511.3	2522.5	2535.8	2549.9	2575.6	2612.7	2638.1	2627.8	2617.5	2627.8
22.5°	2447.9	2456.0	2464.0	2477.3	2492.5	2520.5	2561.5	2589.5	2578.9	2568.3	2578.9
25°	2357.9	2364.3	2370.7	2382.9	2397.0	2423.9	2463.7	2491.6	2483.9	2476.2	2483.9
27.5°	2221.5	2232.5	2243.4	2258.4	2274.7	2300.2	2334.7	2360.0	2357.5	2355.0	2357.5
30°	2103.1	2121.9	2140.7	2159.2	2177.5	2203.0	2235.5	2259.3	2257.1	2255.0	2257.1
32.5°	1987.7	2007.2	2026.7	2046.6	2066.7	2089.0	2113.7	2133.0	2136.7	2140.4	2136.7
35°	1815.5	1825.0	1834.4	1849.2	1865.9	1882.5	1899.2	1913.7	1921.9	1930.0	1921.9
37.5°	1560.7	1572.0	1583.3	1601.1	1621.1	1637.2	1649.4	1659.1	1661.2	1663.2	1661.2
40°	1372.2	1385.9	1399.6	1413.9	1428.4	1445.8	1465.8	1479.2	1472.4	1465.5	1472.4
42.5°	1179.1	1190.8	1202.4	1220.8	1241.5	1260.7	1278.4	1287.5	1270.7	1254.0	1270.7
45°	778.9	841.3	903.7	933.7	953.0	964.5	968.4	959.6	913.0	866.4	913.0
47.5°	399.5	463.3	527.2	591.5	656.1	671.7	638.6	599.1	540.4	481.8	540.4
50°	277.9	299.7	321.5	390.7	475.8	491.8	438.8	389.0	348.9	308.7	348.9
52.5°	204.8	216.7	228.6	282.0	349.3	356.9	305.0	260.5	238.4	216.4	238.4
55°	129.8	134.9	140.1	164.8	196.0	197.2	168.6	145.2	137.5	129.8	137.5
57.5°	76.7	84.9	93.0	103.4	114.6	114.6	103.5	93.3	85.9	78.5	85.9
60°	49.0	55.5	61.9	72.1	83.7	84.7	75.3	66.7	60.3	53.9	60.3
62.5°	44.4	46.7	49.0	56.2	65.0	65.6	57.9	51.5	49.2	46.9	49.2
65°	38.5	39.7	41.0	42.0	42.8	43.1	42.6	42.2	41.8	41.3	41.8
67.5°	33.7	34.6	35.5	36.0	36.4	36.8	37.2	37.3	36.4	35.6	36.4
70°	29.8	31.1	32.4	32.7	32.7	32.9	33.3	33.4	32.6	31.7	32.6
72.5°	26.7	27.7	28.6	29.1	29.4	29.8	30.3	30.4	29.5	28.7	29.5
75°	22.1	22.5	23.0	23.4	23.8	24.3	24.7	24.9	24.5	24.0	24.5
77.5°	17.5	17.9	18.4	18.7	19.1	19.3	19.4	19.3	18.9	18.5	18.9
80°	14.4	14.9	15.3	15.4	15.4	15.6	16.0	16.2	15.8	15.4	15.8
82.5°	11.3	11.4	11.5	11.8	12.1	12.4	12.4	12.5	12.4	12.3	12.4
85°	6.7	6.7	6.7	6.7	6.7	6.9	7.4	7.6	7.2	6.7	7.2
87.5°	10.4	10.6	10.4	10.0	9.8	9.6	8.5	6.9	5.2	3.7	5.2
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

TEST NUMBER: P709403

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

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

TEST NUMBER: P709403

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2664.6	2657.5	2648.9	2649.5	2659.0	2665.2	2661.1	2657.0
5°	2669.3	2661.5	2652.1	2653.6	2665.9	2674.1	2669.4	2664.7
7.5°	2676.4	2668.0	2656.8	2656.7	2667.6	2674.5	2669.3	2664.1
10°	2680.4	2671.1	2657.8	2656.3	2666.6	2673.3	2669.5	2665.6
12.5°	2684.6	2673.1	2656.5	2651.9	2659.4	2663.6	2657.7	2651.8
15°	2687.5	2671.7	2647.8	2635.6	2635.2	2632.7	2624.2	2615.6
17.5°	2667.2	2645.6	2613.2	2592.1	2582.5	2572.7	2562.6	2552.5
20°	2638.1	2612.7	2575.6	2549.9	2535.8	2522.5	2511.3	2500.2
22.5°	2589.5	2561.5	2520.5	2492.5	2477.3	2464.0	2456.0	2447.9
25°	2491.6	2463.7	2423.9	2397.0	2382.9	2370.7	2364.3	2357.9
27.5°	2360.0	2334.7	2300.2	2274.7	2258.4	2243.4	2232.5	2221.5
30°	2259.3	2235.5	2203.0	2177.5	2159.2	2140.7	2121.9	2103.1
32.5°	2133.0	2113.7	2089.0	2066.7	2046.6	2026.7	2007.2	1987.7
35°	1913.7	1899.2	1882.5	1865.9	1849.2	1834.4	1825.0	1815.5
37.5°	1659.1	1649.4	1637.2	1621.1	1601.1	1583.3	1572.0	1560.7
40°	1479.2	1465.8	1445.8	1428.4	1413.9	1399.6	1385.9	1372.2
42.5°	1287.5	1278.4	1260.7	1241.5	1220.8	1202.4	1190.8	1179.1
45°	959.6	968.4	964.5	953.0	933.7	903.7	841.3	778.9
47.5°	599.1	638.6	671.7	656.1	591.5	527.2	463.3	399.5
50°	389.0	438.8	491.8	475.8	390.7	321.5	299.7	277.9
52.5°	260.5	305.0	356.9	349.3	282.0	228.6	216.7	204.8
55°	145.2	168.6	197.2	196.0	164.8	140.1	134.9	129.8
57.5°	93.3	103.5	114.6	114.6	103.4	93.0	84.9	76.7
60°	66.7	75.3	84.7	83.7	72.1	61.9	55.5	49.0
62.5°	51.5	57.9	65.6	65.0	56.2	49.0	46.7	44.4
65°	42.2	42.6	43.1	42.8	42.0	41.0	39.7	38.5
67.5°	37.3	37.2	36.8	36.4	36.0	35.5	34.6	33.7
70°	33.4	33.3	32.9	32.7	32.7	32.4	31.1	29.8
72.5°	30.4	30.3	29.8	29.4	29.1	28.6	27.7	26.7
75°	24.9	24.7	24.3	23.8	23.4	23.0	22.5	22.1
77.5°	19.3	19.4	19.3	19.1	18.7	18.4	17.9	17.5
80°	16.2	16.0	15.6	15.4	15.4	15.3	14.9	14.4
82.5°	12.5	12.4	12.4	12.1	11.8	11.5	11.4	11.3
85°	7.6	7.4	6.9	6.7	6.7	6.7	6.7	6.7
87.5°	6.9	8.8	11.5	13.7	16.4	18.7	19.6	19.2
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: P709403

CATALOG NUMBER: DL2W-WB-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)