

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: P709322

Luminaire Tested: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

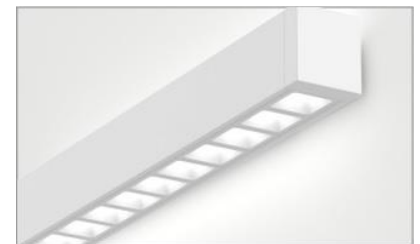
Test Information

Test Method: LM-79-2019
Report Number: P709322
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10406.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

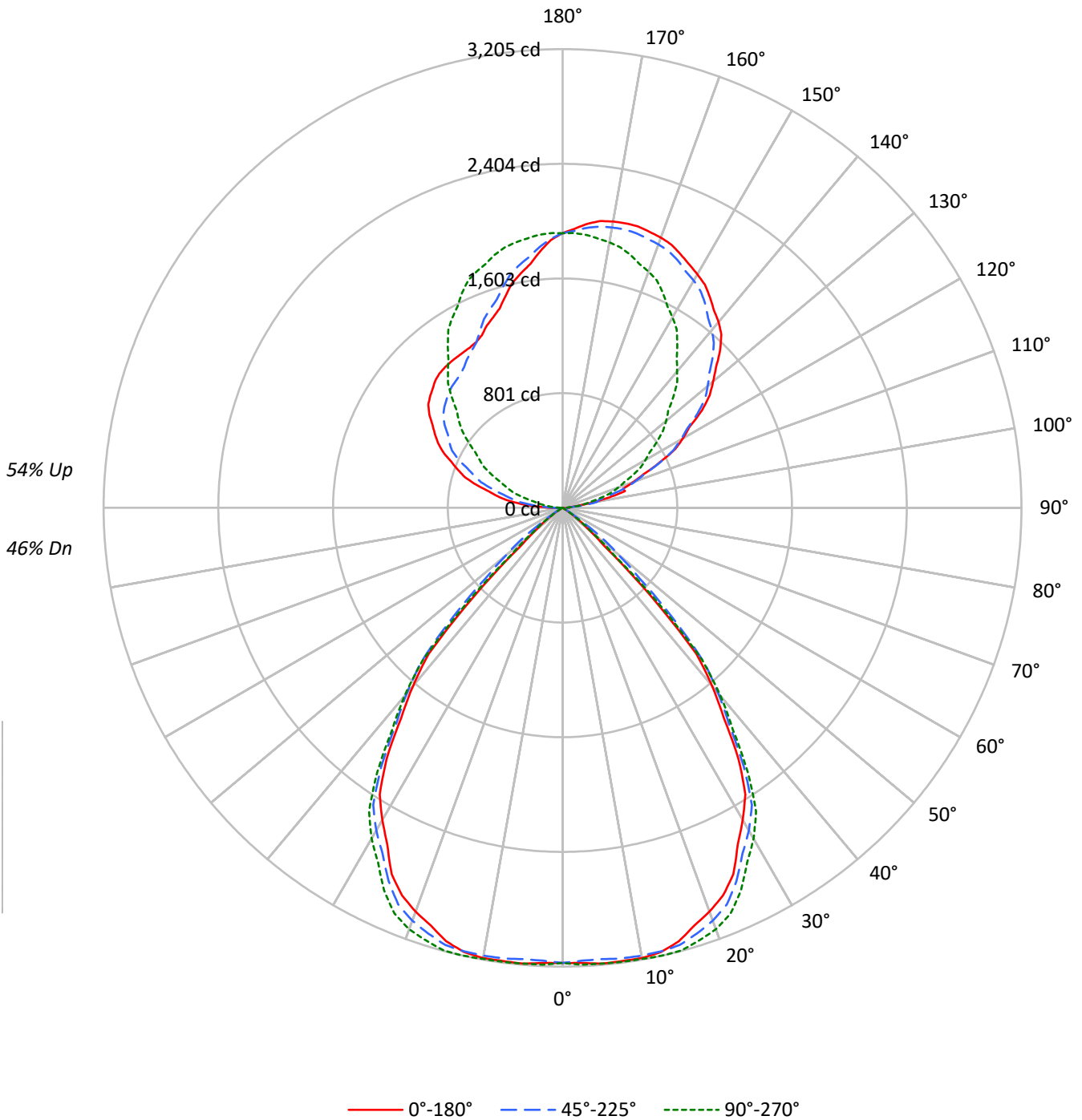
Input Watts (W): 104.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46				46
1	99	95	92	89	91	88	85	83	74	72	70	61	60	59	49	49	48	43				43
2	91	85	80	76	84	79	75	71	67	64	61	56	54	52	46	44	43	39				39
3	85	77	71	66	78	71	66	62	61	57	54	51	49	46	42	41	39	35				35
4	79	69	63	57	72	65	59	54	55	51	48	47	44	42	39	37	36	32				32
5	73	63	56	51	67	59	52	48	51	46	43	43	40	37	36	34	32	29				29
6	68	57	50	45	63	53	47	43	46	42	38	40	36	34	34	31	29	27				27
7	63	52	45	40	58	49	43	38	43	38	34	37	33	31	31	29	27	24				24
8	59	48	41	36	55	45	39	34	39	35	31	34	31	28	29	27	25	22				22
9	55	44	37	33	51	41	35	31	36	32	28	32	28	26	27	25	23	21				21
10	52	41	34	30	48	38	32	28	34	29	26	29	26	23	25	23	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51342	51342	51342	51342	51342
5°	51802	51302	51802	51302	51802
10°	52356	52077	52465	52077	52356
15°	52414	52850	53523	52850	52414
20°	51567	52722	53828	52722	51567
25°	50301	51221	52526	51221	50301
30°	46909	48518	49739	48518	46909
35°	42228	43483	44481	43483	42228
40°	34239	35652	36225	35652	34239
45°	19918	24924	22112	24924	19918
50°	6347	12864	7214	12864	6347
55°	2542	4480	2460	4480	2542
60°	61	1232	187	1232	61
65°	0	65	38	65	0
70°	0	40	0	40	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: 60°
 Vertical Angle: 45°
 Luminance: 25124 cd/sqm

TEST NUMBER: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	2.9
10°-20°	893.6	8.6
20°-30°	1320.7	12.7
30°-40°	1357.2	13.0
40°-50°	783.9	7.5
50°-60°	135.6	1.3
60°-70°	5.1	0.0
70°-80°	0.1	0.0
80°-90°	10.2	0.1
90°-100°	151.8	1.5
100°-110°	443.3	4.3
110°-120°	725.6	7.0
120°-130°	921.7	8.9
130°-140°	986.6	9.5
140°-150°	921.4	8.9
150°-160°	758.3	7.3
160°-170°	508.6	4.9
170°-180°	180.6	1.7
0°-30°	2518.6	24.2
0°-40°	3875.8	37.2
0°-60°	4795.3	46.1
0°-90°	4810.6	46.2
90°-120°	1320.7	12.7
90°-150°	4150.5	39.9
90°-180°	5598.0	53.8
0°-180°	10406.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3180	3180	3180	3180	3180	
5°	3196	3165	3196	3165	3196	305
15°	3136	3162	3202	3162	3136	881
25°	2824	2875	2948	2875	2824	1285
35°	2142	2206	2257	2206	2142	1314
45°	872	1092	968	1092	872	678
55°	90	159	87	159	90	92
65°	0	2	1	2	0	1
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	

TEST NUMBER: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9
2.5°	3182.2	3185.3	3188.4	3179.4	3166.4	3165.6	3176.8	3186.3	3190.4	3194.5	3190.4
5°	3196.2	3199.2	3202.2	3187.6	3167.1	3163.5	3176.7	3187.7	3192.0	3196.2	3192.0
7.5°	3193.4	3198.1	3202.9	3192.0	3175.9	3173.5	3184.8	3194.0	3196.7	3199.3	3196.7
10°	3193.4	3196.8	3200.2	3190.5	3176.4	3176.4	3190.5	3200.9	3200.5	3200.1	3200.5
12.5°	3178.8	3184.6	3190.4	3183.3	3171.9	3176.9	3198.2	3213.1	3208.9	3204.7	3208.9
15°	3135.7	3146.0	3156.2	3156.8	3154.3	3169.2	3201.7	3223.4	3212.7	3202.0	3212.7
17.5°	3059.6	3072.4	3085.2	3095.8	3105.6	3131.4	3173.1	3200.5	3185.1	3169.7	3185.1
20°	3001.2	3014.0	3026.8	3040.0	3053.2	3083.7	3131.6	3163.6	3148.2	3132.8	3148.2
22.5°	2930.5	2942.3	2954.1	2968.0	2982.6	3015.5	3066.7	3101.0	3084.2	3067.5	3084.2
25°	2823.5	2828.2	2832.9	2844.9	2859.5	2890.8	2939.1	2972.3	2960.3	2948.4	2960.3
27.5°	2649.8	2660.8	2671.8	2688.9	2707.9	2736.0	2773.3	2800.1	2795.9	2791.6	2795.9
30°	2516.1	2531.9	2547.7	2567.9	2589.7	2615.1	2644.2	2666.1	2667.0	2667.9	2667.0
32.5°	2376.2	2392.3	2408.5	2427.8	2448.2	2473.1	2502.5	2523.5	2519.2	2514.9	2519.2
35°	2142.4	2154.7	2167.1	2181.4	2196.4	2215.8	2239.7	2257.5	2257.1	2256.7	2257.1
37.5°	1852.0	1859.0	1866.0	1883.0	1903.4	1921.8	1938.2	1951.1	1953.3	1955.4	1953.3
40°	1624.5	1632.2	1639.9	1659.1	1682.2	1700.8	1714.8	1724.7	1721.7	1718.7	1721.7
42.5°	1383.2	1392.6	1402.0	1424.7	1451.9	1470.6	1480.9	1483.8	1464.0	1444.3	1464.0
45°	872.3	947.9	1023.5	1060.6	1084.9	1098.2	1100.3	1087.1	1027.7	968.4	1027.7
47.5°	397.9	486.6	575.4	650.8	721.7	736.2	694.2	644.1	569.8	495.5	569.8
50°	252.7	277.9	303.0	392.3	502.9	521.4	448.0	381.2	334.2	287.2	334.2
52.5°	168.1	182.7	197.3	266.2	353.3	360.2	287.1	226.7	204.3	182.0	204.3
55°	90.3	94.6	98.8	125.2	158.9	159.4	126.5	100.2	93.8	87.4	93.8
57.5°	34.2	40.7	47.2	58.5	71.5	71.3	57.9	46.1	39.0	31.9	39.0
60°	1.9	7.0	12.2	23.7	37.4	38.9	28.2	18.6	12.2	5.8	12.2
62.5°	1.2	2.2	3.2	10.9	20.8	21.3	12.3	5.2	3.5	1.9	3.5
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1
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

TEST NUMBER: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-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: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9	3179.9
2.5°	3186.3	3176.8	3165.6	3166.4	3179.4	3188.4	3185.3	3182.2
5°	3187.7	3176.7	3163.5	3167.1	3187.6	3202.2	3199.2	3196.2
7.5°	3194.0	3184.8	3173.5	3175.9	3192.0	3202.9	3198.1	3193.4
10°	3200.9	3190.5	3176.4	3176.4	3190.5	3200.2	3196.8	3193.4
12.5°	3213.1	3198.2	3176.9	3171.9	3183.3	3190.4	3184.6	3178.8
15°	3223.4	3201.7	3169.2	3154.3	3156.8	3156.2	3146.0	3135.7
17.5°	3200.5	3173.1	3131.4	3105.6	3095.8	3085.2	3072.4	3059.6
20°	3163.6	3131.6	3083.7	3053.2	3040.0	3026.8	3014.0	3001.2
22.5°	3101.0	3066.7	3015.5	2982.6	2968.0	2954.1	2942.3	2930.5
25°	2972.3	2939.1	2890.8	2859.5	2844.9	2832.9	2828.2	2823.5
27.5°	2800.1	2773.3	2736.0	2707.9	2688.9	2671.8	2660.8	2649.8
30°	2666.1	2644.2	2615.1	2589.7	2567.9	2547.7	2531.9	2516.1
32.5°	2523.5	2502.5	2473.1	2448.2	2427.8	2408.5	2392.3	2376.2
35°	2257.5	2239.7	2215.8	2196.4	2181.4	2167.1	2154.7	2142.4
37.5°	1951.1	1938.2	1921.8	1903.4	1883.0	1866.0	1859.0	1852.0
40°	1724.7	1714.8	1700.8	1682.2	1659.1	1639.9	1632.2	1624.5
42.5°	1483.8	1480.9	1470.6	1451.9	1424.7	1402.0	1392.6	1383.2
45°	1087.1	1100.3	1098.2	1084.9	1060.6	1023.5	947.9	872.3
47.5°	644.1	694.2	736.2	721.7	650.8	575.4	486.6	397.9
50°	381.2	448.0	521.4	502.9	392.3	303.0	277.9	252.7
52.5°	226.7	287.1	360.2	353.3	266.2	197.3	182.7	168.1
55°	100.2	126.5	159.4	158.9	125.2	98.8	94.6	90.3
57.5°	46.1	57.9	71.3	71.5	58.5	47.2	40.7	34.2
60°	18.6	28.2	38.9	37.4	23.7	12.2	7.0	1.9
62.5°	5.2	12.3	21.3	20.8	10.9	3.2	2.2	1.2
65°	1.0	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.1	0.1	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: P709322

CATALOG NUMBER: DL2W-BB-M-150U-125D-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)