

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: P709321

Luminaire Tested: DL2W-BB-M-150U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709321
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-940-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: 10363.4 lumens
Efficiency: N/A
Efficacy: 111.7 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

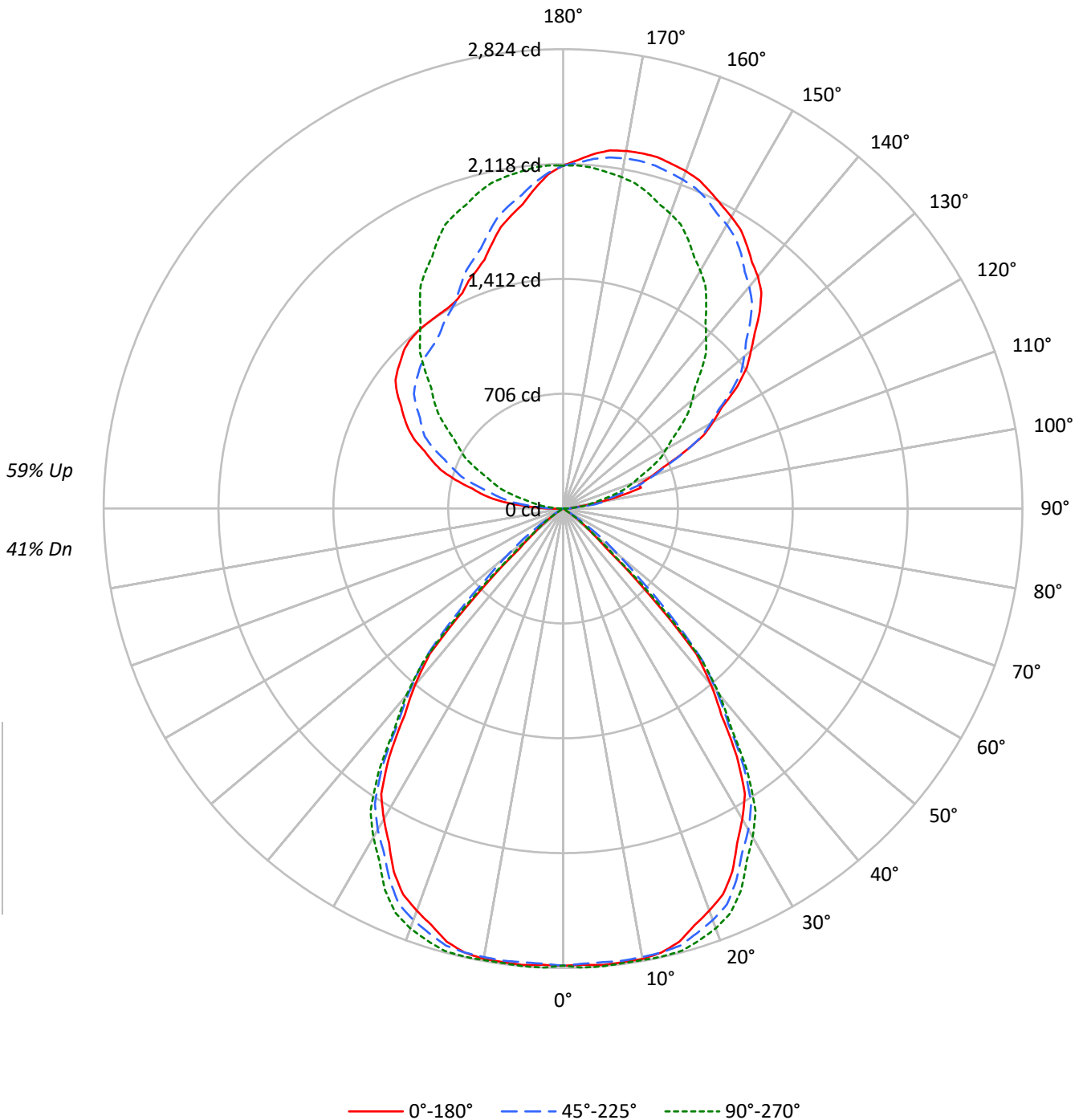
Input Watts (W): 92.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	73	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	22		
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°	45368	45368	45368	45368	45368
5°	45644	45374	45764	45374	45644
10°	46086	45898	46207	45898	46086
15°	46089	46490	47057	46490	46089
20°	45187	46246	47177	46246	45187
25°	43869	44899	46119	44899	43869
30°	41081	42481	43477	42481	41081
35°	36730	38215	38950	38215	36730
40°	29845	31037	31598	31037	29845
45°	17260	21666	19231	21666	17260
50°	5606	11327	6136	11327	5606
55°	2193	4037	2134	4037	2193
60°	36	1114	171	1114	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: 21751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.6
10°-20°	785.3	7.6
20°-30°	1157.5	11.2
30°-40°	1185.3	11.4
40°-50°	683.0	6.6
50°-60°	119.4	1.2
60°-70°	4.6	0.0
70°-80°	0.0	0.0
80°-90°	11.2	0.1
90°-100°	166.8	1.6
100°-110°	487.2	4.7
110°-120°	797.3	7.7
120°-130°	1012.7	9.8
130°-140°	1084.1	10.5
140°-150°	1012.5	9.8
150°-160°	833.2	8.0
160°-170°	558.9	5.4
170°-180°	198.4	1.9
0°-30°	2211.4	21.3
0°-40°	3396.7	32.8
0°-60°	4199.1	40.5
0°-90°	4214.9	40.7
90°-120°	1451.2	14.0
90°-150°	4560.5	44.0
90°-180°	6151.0	59.4
0°-180°	10363.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2810	2810	2810	2810	2810	
5°	2816	2800	2824	2800	2816	268
15°	2757	2781	2815	2781	2757	774
25°	2462	2520	2589	2520	2462	1124
35°	1864	1939	1976	1939	1864	1144
45°	756	949	842	949	756	594
55°	78	143	76	143	78	80
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	4
90°	44	41	7	57	93	21
95°	49	66	68	216	299	82
105°	497	371	314	555	686	460
115°	820	826	596	882	1010	812
125°	1306	1264	884	1103	1247	1156
135°	1710	1628	1200	1240	1381	1312
145°	1972	1909	1534	1318	1413	1235
155°	2146	2095	1822	1499	1463	991
165°	2237	2183	2011	1759	1687	631
175°	2189	2158	2103	2011	1976	210
180°	2108	2108	2108	2108	2108	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9
2.5°	2807.4	2811.9	2816.4	2809.9	2799.8	2799.6	2809.4	2817.5	2820.9	2824.2	2820.9
5°	2816.2	2820.9	2825.6	2815.5	2800.6	2798.5	2809.2	2818.0	2820.8	2823.6	2820.8
7.5°	2812.7	2818.0	2823.3	2815.8	2804.0	2802.3	2810.6	2817.0	2817.7	2818.4	2817.7
10°	2811.0	2815.2	2819.4	2811.3	2799.2	2799.9	2813.4	2823.0	2820.7	2818.4	2820.7
12.5°	2795.8	2801.9	2808.0	2802.3	2792.8	2797.8	2817.4	2830.7	2825.4	2820.0	2825.4
15°	2757.3	2764.8	2772.3	2774.1	2774.1	2788.4	2816.9	2835.8	2825.5	2815.2	2825.5
17.5°	2686.3	2696.3	2706.4	2715.9	2725.4	2748.1	2784.0	2807.9	2795.8	2783.6	2795.8
20°	2629.9	2640.7	2651.4	2664.3	2677.9	2705.2	2746.4	2773.8	2759.7	2745.7	2759.7
22.5°	2568.4	2579.2	2589.9	2604.2	2619.7	2648.3	2690.3	2718.3	2704.6	2691.0	2704.6
25°	2462.5	2474.7	2486.8	2497.2	2507.1	2533.5	2576.6	2606.6	2597.7	2588.8	2597.7
27.5°	2317.2	2328.2	2339.1	2354.8	2372.0	2397.3	2430.7	2454.5	2449.2	2444.0	2449.2
30°	2203.5	2217.1	2230.7	2248.1	2266.8	2290.4	2319.0	2339.4	2335.7	2332.0	2335.7
32.5°	2080.5	2093.4	2106.2	2123.7	2142.8	2162.7	2183.4	2199.3	2200.8	2202.3	2200.8
35°	1863.5	1877.5	1891.5	1910.5	1931.1	1946.5	1956.8	1965.8	1971.0	1976.1	1971.0
37.5°	1599.6	1614.3	1629.0	1646.0	1663.8	1677.8	1688.1	1696.1	1697.0	1698.0	1697.0
40°	1416.0	1425.8	1435.7	1450.1	1466.0	1479.1	1489.4	1497.3	1498.3	1499.2	1498.3
42.5°	1212.2	1218.3	1224.4	1240.6	1260.3	1276.4	1288.9	1293.9	1276.1	1258.3	1276.1
45°	755.9	824.7	893.5	925.4	945.1	952.6	947.9	933.0	887.6	842.2	887.6
47.5°	358.8	431.1	503.5	569.4	633.1	644.1	602.3	555.9	495.2	434.6	495.2
50°	223.2	248.0	272.8	349.5	443.6	458.3	393.7	334.1	289.2	244.3	289.2
52.5°	149.9	162.4	174.8	232.7	305.8	312.5	252.8	202.6	180.9	159.2	180.9
55°	77.9	81.7	85.4	110.5	142.8	144.0	114.1	89.8	82.8	75.8	82.8
57.5°	26.3	33.7	41.1	51.8	63.6	63.4	51.4	40.6	33.9	27.2	33.9
60°	1.1	6.2	11.3	21.8	33.9	35.1	25.3	16.5	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.8	19.2	11.2	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	0.7	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°	8.9	9.1	8.9	8.5	8.2	8.0	6.8	5.1	3.2	1.5	3.2
90°	44.4	45.4	44.4	42.3	41.2	40.2	33.8	25.4	15.9	7.4	15.9
92.5°	54.5	53.9	53.7	51.6	49.7	44.4	36.4	36.4	37.0	23.5	39.5
95°	48.6	48.6	47.6	47.6	56.0	75.0	103.6	102.5	74.0	67.6	95.1
97.5°	112.9	113.1	127.7	158.3	184.1	197.6	184.3	138.4	135.9	130.6	170.6
100°	226.2	223.0	245.2	271.6	299.1	244.1	194.5	193.4	184.9	175.4	227.2
102.5°	359.7	372.6	381.3	381.5	303.3	271.2	261.2	252.6	234.8	228.7	279.6
105°	496.7	475.6	410.0	372.0	366.7	375.2	376.2	344.5	317.0	313.9	364.6
107.5°	487.4	480.0	484.9	494.4	502.8	503.7	490.6	444.7	402.9	396.7	441.1
110°	577.0	573.9	581.3	586.5	595.0	590.8	571.7	520.0	467.1	453.4	497.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	670.0	676.2	675.9	685.5	688.0	682.9	652.1	593.5	532.2	510.9	553.6
115°	820.1	818.0	825.4	827.5	832.8	819.0	772.5	704.9	627.8	596.0	634.1
117.5°	972.5	966.1	966.1	978.0	974.0	945.2	897.9	817.6	730.9	678.5	707.4
120°	1066.3	1064.2	1064.2	1068.4	1065.3	1031.5	980.7	892.0	796.8	733.4	755.6
122.5°	1155.1	1163.1	1156.4	1158.9	1152.4	1119.4	1056.0	966.4	862.8	793.5	802.1
125°	1306.2	1297.8	1292.5	1290.4	1283.0	1246.0	1177.3	1080.1	968.0	883.5	871.9
127.5°	1423.5	1426.7	1420.6	1413.0	1398.6	1361.8	1291.6	1193.6	1076.7	970.2	944.6
130°	1508.1	1511.3	1506.0	1497.5	1476.4	1432.0	1368.6	1271.4	1151.9	1037.8	994.5
132.5°	1597.7	1595.0	1588.0	1569.4	1547.4	1505.5	1437.9	1346.6	1219.6	1098.7	1045.2
135°	1709.9	1711.0	1695.1	1676.1	1650.8	1604.3	1548.2	1458.4	1331.6	1200.5	1123.4
137.5°	1804.0	1802.3	1786.7	1770.8	1739.3	1698.9	1645.0	1559.9	1436.0	1301.6	1205.0
140°	1863.2	1863.2	1848.4	1828.3	1801.9	1760.7	1706.8	1623.3	1507.0	1367.5	1265.0
142.5°	1908.8	1909.7	1894.9	1879.9	1853.4	1817.3	1764.3	1684.1	1567.9	1439.4	1324.2
145°	1972.0	1976.3	1964.6	1951.9	1926.6	1891.7	1849.4	1767.0	1663.4	1534.5	1418.3
147.5°	2032.3	2036.5	2029.5	2016.4	1991.0	1954.7	1916.2	1841.4	1743.5	1628.6	1510.2
150°	2070.3	2074.5	2065.0	2054.5	2033.3	1995.3	1959.3	1885.4	1793.4	1687.7	1573.6
152.5°	2105.8	2110.0	2102.2	2090.0	2065.4	2028.2	1997.4	1925.9	1840.8	1744.4	1633.6
155°	2146.4	2155.9	2148.5	2136.9	2112.6	2077.7	2049.2	1983.6	1906.5	1822.0	1719.4
157.5°	2185.7	2196.1	2185.7	2174.7	2146.2	2116.8	2090.2	2029.9	1963.4	1890.9	1798.1
160°	2207.7	2217.2	2207.7	2195.0	2166.5	2137.9	2114.7	2058.7	1996.3	1929.8	1850.5
162.5°	2221.2	2231.6	2223.8	2209.4	2180.0	2154.0	2132.4	2081.5	2024.2	1963.6	1891.1
165°	2237.3	2248.9	2239.4	2222.5	2194.0	2172.8	2154.9	2109.4	2060.8	2011.1	1953.0
167.5°	2237.1	2250.4	2240.7	2229.5	2197.1	2180.9	2165.4	2128.4	2087.6	2048.1	2001.6
170°	2232.0	2243.6	2237.3	2227.8	2192.9	2179.2	2169.6	2136.9	2102.0	2069.3	2031.2
172.5°	2221.0	2231.8	2224.6	2215.1	2182.8	2171.6	2167.1	2140.3	2110.5	2085.3	2053.2
175°	2188.7	2203.5	2198.2	2189.7	2161.2	2154.9	2155.9	2137.9	2118.9	2103.1	2084.0
177.5°	2145.6	2154.9	2154.0	2146.4	2127.0	2128.6	2135.4	2124.4	2116.8	2110.9	2101.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9	2809.9
2.5°	2817.5	2809.4	2799.6	2799.8	2809.9	2816.4	2811.9	2807.4
5°	2818.0	2809.2	2798.5	2800.6	2815.5	2825.6	2820.9	2816.2
7.5°	2817.0	2810.6	2802.3	2804.0	2815.8	2823.3	2818.0	2812.7
10°	2823.0	2813.4	2799.9	2799.2	2811.3	2819.4	2815.2	2811.0
12.5°	2830.7	2817.4	2797.8	2792.8	2802.3	2808.0	2801.9	2795.8
15°	2835.8	2816.9	2788.4	2774.1	2774.1	2772.3	2764.8	2757.3
17.5°	2807.9	2784.0	2748.1	2725.4	2715.9	2706.4	2696.3	2686.3
20°	2773.8	2746.4	2705.2	2677.9	2664.3	2651.4	2640.7	2629.9
22.5°	2718.3	2690.3	2648.3	2619.7	2604.2	2589.9	2579.2	2568.4
25°	2606.6	2576.6	2533.5	2507.1	2497.2	2486.8	2474.7	2462.5
27.5°	2454.5	2430.7	2397.3	2372.0	2354.8	2339.1	2328.2	2317.2
30°	2339.4	2319.0	2290.4	2266.8	2248.1	2230.7	2217.1	2203.5
32.5°	2199.3	2183.4	2162.7	2142.8	2123.7	2106.2	2093.4	2080.5
35°	1965.8	1956.8	1946.5	1931.1	1910.5	1891.5	1877.5	1863.5
37.5°	1696.1	1688.1	1677.8	1663.8	1646.0	1629.0	1614.3	1599.6
40°	1497.3	1489.4	1479.1	1466.0	1450.1	1435.7	1425.8	1416.0
42.5°	1293.9	1288.9	1276.4	1260.3	1240.6	1224.4	1218.3	1212.2
45°	933.0	947.9	952.6	945.1	925.4	893.5	824.7	755.9
47.5°	555.9	602.3	644.1	633.1	569.4	503.5	431.1	358.8
50°	334.1	393.7	458.3	443.6	349.5	272.8	248.0	223.2
52.5°	202.6	252.8	312.5	305.8	232.7	174.8	162.4	149.9
55°	89.8	114.1	144.0	142.8	110.5	85.4	81.7	77.9
57.5°	40.6	51.4	63.4	63.6	51.8	41.1	33.7	26.3
60°	16.5	25.3	35.1	33.9	21.8	11.3	6.2	1.1
62.5°	4.9	11.2	19.2	18.8	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°	0.7	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°	5.1	7.2	10.1	12.5	15.4	18.0	19.0	18.6
90°	25.4	35.9	50.7	62.4	77.1	89.8	95.1	93.0
92.5°	57.5	79.1	101.5	122.4	144.8	157.5	162.8	164.0
95°	133.2	163.8	199.7	231.4	258.9	279.0	284.3	299.1
97.5°	209.0	262.7	305.4	342.0	376.4	398.8	411.7	416.8
100°	267.4	320.2	373.1	412.2	453.4	472.4	490.4	503.0
102.5°	329.9	376.9	435.6	484.9	525.2	551.9	563.1	574.1
105°	423.8	477.7	528.4	582.3	624.6	658.4	681.6	685.9
107.5°	511.5	575.1	627.3	681.6	723.3	754.4	777.6	785.6
110°	570.7	635.1	697.5	740.8	788.4	821.1	840.2	855.0

TEST NUMBER: P709321

CATALOG NUMBER: DL2W-BB-M-150U-100D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	624.8	693.5	761.8	816.9	859.4	892.2	913.7	921.8
115°	707.0	775.7	847.6	916.3	961.7	985.0	1000.8	1010.3
117.5°	779.9	854.8	922.4	992.1	1039.1	1063.4	1068.0	1075.6
120°	822.2	900.4	972.3	1033.6	1086.4	1114.9	1125.5	1129.7
122.5°	866.2	941.0	1011.2	1074.2	1125.3	1159.8	1177.1	1182.2
125°	926.8	1000.8	1070.6	1136.1	1183.6	1218.5	1237.5	1247.0
127.5°	979.9	1049.4	1122.8	1187.4	1234.2	1268.0	1288.5	1298.6
130°	1018.8	1079.0	1154.0	1219.6	1267.1	1300.9	1318.9	1327.4
132.5°	1056.0	1104.4	1178.6	1244.1	1294.2	1327.2	1345.1	1351.9
135°	1114.9	1143.5	1204.8	1274.5	1325.3	1357.0	1374.9	1381.3
137.5°	1178.8	1185.3	1227.2	1292.5	1344.5	1377.2	1392.9	1398.2
140°	1222.7	1217.5	1244.9	1300.9	1353.8	1386.5	1401.3	1406.6
142.5°	1270.9	1255.5	1267.8	1310.2	1357.2	1389.9	1405.6	1410.9
145°	1344.3	1315.7	1306.2	1329.5	1364.4	1391.8	1408.7	1413.0
147.5°	1428.0	1386.3	1356.1	1362.9	1380.2	1399.9	1413.8	1416.3
150°	1483.8	1432.0	1395.0	1390.8	1397.1	1410.9	1421.4	1421.4
152.5°	1539.6	1484.4	1437.3	1424.6	1422.5	1427.8	1434.9	1434.1
155°	1628.6	1564.1	1510.2	1486.9	1473.2	1469.0	1466.9	1462.6
157.5°	1714.4	1647.6	1587.1	1555.4	1538.1	1527.5	1522.5	1515.9
160°	1774.4	1702.5	1641.2	1605.3	1590.5	1571.5	1567.3	1555.6
162.5°	1821.7	1760.9	1695.3	1659.4	1639.5	1623.9	1618.0	1604.7
165°	1894.9	1842.0	1776.5	1741.6	1717.3	1703.6	1692.0	1686.7
167.5°	1959.8	1914.5	1857.7	1822.0	1809.5	1788.8	1779.0	1771.2
170°	1995.3	1959.3	1911.8	1876.9	1865.3	1850.5	1839.9	1830.4
172.5°	2025.7	2000.8	1956.6	1932.7	1921.9	1908.8	1900.8	1887.9
175°	2066.1	2050.2	2021.7	2000.6	2005.8	1993.2	1991.0	1976.3
177.5°	2094.8	2089.8	2070.3	2061.9	2072.0	2067.8	2066.9	2057.6
180°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4

(END OF REPORT)