

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: P709297

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709297
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, 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-100U-100D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8321.4 lumens
Efficiency: N/A
Efficacy: 116.9 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

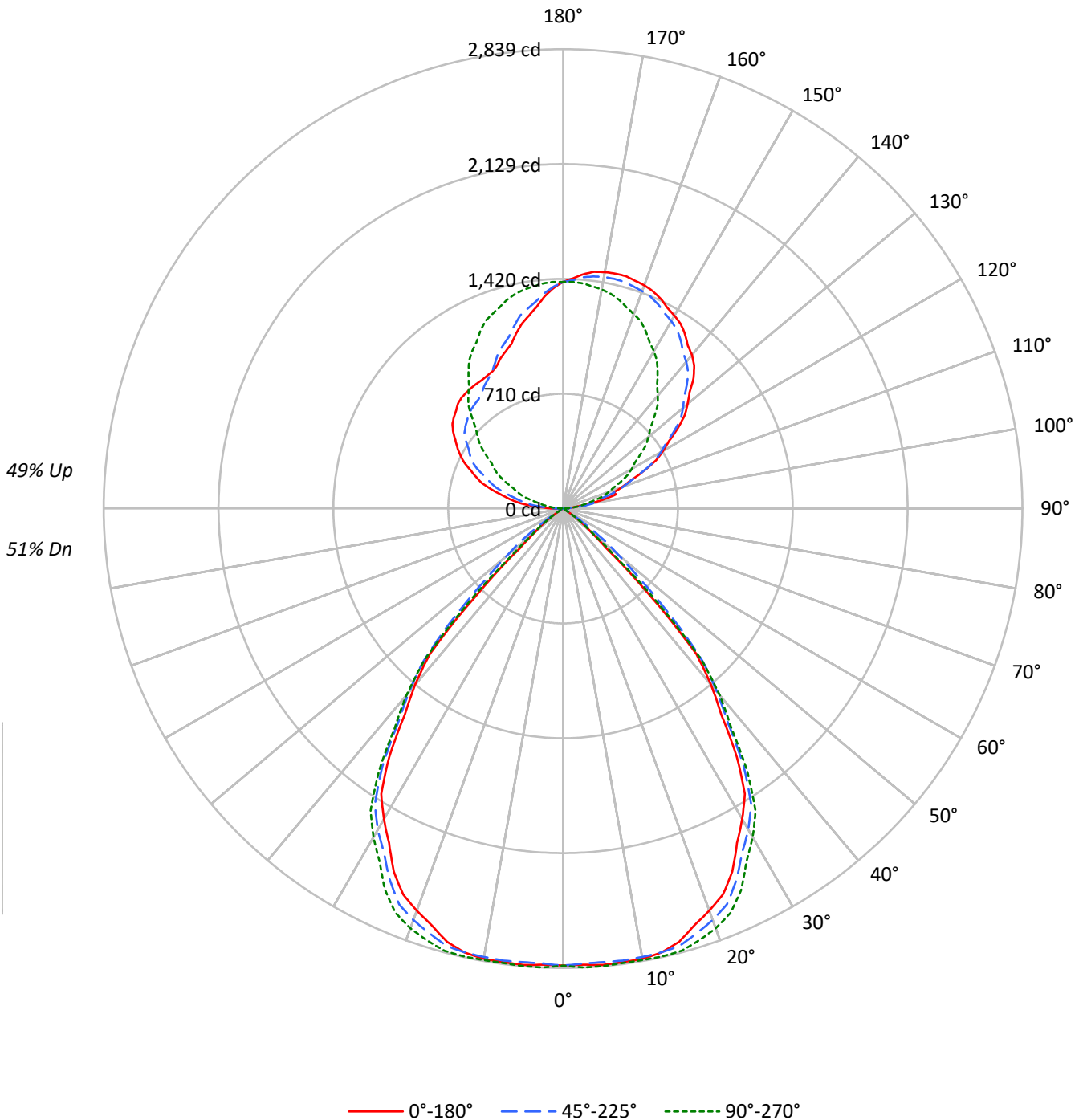
Input Watts (W): 71.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	100	96	93	90	92	89	87	84	76	75	73	64	63	62	53	53	52	47		
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	50	48	47	43		
3	86	78	72	67	80	73	68	63	63	59	56	54	52	49	46	44	43	39		
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	43	40	39	35		
5	74	64	57	52	69	60	54	49	53	48	45	46	43	40	39	37	35	32		
6	69	58	51	46	64	55	49	44	48	44	40	42	39	36	37	34	32	29		
7	64	53	46	41	60	50	44	40	45	40	36	39	35	33	34	31	29	27		
8	60	49	42	37	56	46	40	36	41	36	33	36	33	30	32	29	27	25		
9	56	45	38	34	53	43	37	33	38	33	30	34	30	27	30	27	25	23		
10	53	42	35	31	49	40	34	30	35	31	27	31	28	25	28	25	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45601	45601	45601	45601	45601
5°	45877	45604	45997	45604	45877
10°	46321	46131	46442	46131	46321
15°	46323	46727	47296	46727	46323
20°	45417	46482	47417	46482	45417
25°	44094	45128	46355	45128	44094
30°	41290	42699	43697	42699	41290
35°	36918	38409	39149	38409	36918
40°	29997	31194	31759	31194	29997
45°	17349	21775	19329	21775	17349
50°	5634	11385	6167	11385	5634
55°	2204	4058	2145	4058	2204
60°	36	1121	171	1121	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: 21861 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	3.2
10°-20°	789.3	9.5
20°-30°	1163.4	14.0
30°-40°	1191.4	14.3
40°-50°	686.5	8.2
50°-60°	120.0	1.4
60°-70°	4.6	0.1
70°-80°	0.0	0.0
80°-90°	7.5	0.1
90°-100°	111.4	1.3
100°-110°	325.4	3.9
110°-120°	530.7	6.4
120°-130°	673.4	8.1
130°-140°	720.5	8.7
140°-150°	672.7	8.1
150°-160°	553.4	6.7
160°-170°	371.2	4.5
170°-180°	131.8	1.6
0°-30°	2222.7	26.7
0°-40°	3414.0	41.0
0°-60°	4220.5	50.7
0°-90°	4232.6	50.9
90°-120°	967.5	11.6
90°-150°	3034.0	36.5
90°-180°	4090.0	49.2
0°-180°	8321.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2824	2824	2824	2824	2824	
5°	2831	2814	2838	2814	2831	270
15°	2771	2795	2830	2795	2771	778
25°	2475	2533	2602	2533	2475	1129
35°	1873	1949	1986	1949	1873	1150
45°	760	954	846	954	760	597
55°	78	144	76	144	78	81
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	30	27	4	39	67	14
95°	33	42	43	144	191	54
105°	339	247	207	370	459	311
115°	552	548	394	587	674	544
125°	864	841	584	734	830	771
135°	1140	1082	795	823	918	873
145°	1315	1268	1019	875	938	822
155°	1430	1392	1209	994	971	659
165°	1488	1451	1336	1167	1120	420
175°	1454	1435	1397	1335	1316	140
180°	1400	1400	1400	1400	1400	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2821.7	2826.2	2830.7	2824.3	2814.1	2813.9	2823.7	2831.9	2835.3	2838.6	2835.3
5°	2830.6	2835.3	2840.0	2829.9	2814.8	2812.7	2823.5	2832.4	2835.2	2838.0	2835.2
7.5°	2827.0	2832.4	2837.7	2830.2	2818.3	2816.6	2825.0	2831.4	2832.1	2832.7	2832.1
10°	2825.3	2829.5	2833.8	2825.7	2813.4	2814.1	2827.8	2837.4	2835.1	2832.7	2835.1
12.5°	2810.1	2816.2	2822.3	2816.6	2807.0	2812.1	2831.7	2845.1	2839.8	2834.4	2839.8
15°	2771.3	2778.9	2786.4	2788.3	2788.3	2802.6	2831.3	2850.2	2839.9	2829.5	2839.9
17.5°	2700.0	2710.1	2720.2	2729.8	2739.3	2762.1	2798.2	2822.3	2810.0	2797.8	2810.0
20°	2643.3	2654.1	2664.9	2677.9	2691.5	2719.0	2760.4	2787.9	2773.8	2759.7	2773.8
22.5°	2581.5	2592.3	2603.1	2617.5	2633.0	2661.8	2704.0	2732.1	2718.4	2704.7	2718.4
25°	2475.1	2487.3	2499.5	2510.0	2519.9	2546.4	2589.7	2619.9	2611.0	2602.0	2611.0
27.5°	2329.0	2340.0	2351.0	2366.8	2384.1	2409.5	2443.1	2467.0	2461.7	2456.4	2461.7
30°	2214.7	2228.4	2242.0	2259.5	2278.4	2302.1	2330.8	2351.4	2347.6	2343.8	2347.6
32.5°	2091.2	2104.0	2116.9	2134.5	2153.7	2173.7	2194.5	2210.5	2212.0	2213.5	2212.0
35°	1873.0	1887.1	1901.2	1920.2	1940.9	1956.4	1966.8	1975.8	1981.0	1986.2	1981.0
37.5°	1607.8	1622.5	1637.3	1654.4	1672.3	1686.4	1696.7	1704.7	1705.7	1706.6	1705.7
40°	1423.2	1433.1	1443.0	1457.5	1473.4	1486.6	1497.0	1505.0	1505.9	1506.8	1505.9
42.5°	1218.4	1224.5	1230.6	1246.9	1266.7	1282.9	1295.5	1300.5	1282.6	1264.7	1282.6
45°	759.8	828.9	898.0	930.1	949.9	957.4	952.7	937.8	892.2	846.5	892.2
47.5°	360.6	433.3	506.0	572.3	636.3	647.4	605.4	558.7	497.8	436.8	497.8
50°	224.3	249.3	274.2	351.3	445.8	460.7	395.8	335.8	290.6	245.5	290.6
52.5°	150.7	163.2	175.7	233.9	307.4	314.1	254.1	203.6	181.8	160.0	181.8
55°	78.3	82.1	85.8	111.1	143.6	144.7	114.6	90.3	83.2	76.2	83.2
57.5°	26.5	33.9	41.3	52.1	63.9	63.8	51.6	40.8	34.1	27.3	34.1
60°	1.1	6.2	11.4	21.9	34.1	35.3	25.4	16.6	10.9	5.3	10.9
62.5°	1.1	2.1	3.1	10.0	18.9	19.3	11.3	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	0.8	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°	5.9	6.1	6.1	5.5	5.5	5.3	4.4	3.6	2.1	0.8	1.9
90°	29.6	30.6	30.6	27.5	27.5	26.4	22.2	18.0	10.6	4.2	9.5
92.5°	36.4	35.7	35.7	34.2	32.6	29.8	24.7	23.9	25.8	16.1	27.3
95°	32.8	32.8	31.7	31.7	37.0	46.5	68.7	75.0	48.6	43.3	62.4
97.5°	75.0	79.9	89.0	102.7	126.2	134.6	124.5	93.8	88.8	85.6	113.9
100°	142.7	154.3	165.9	179.7	208.2	170.1	132.1	126.8	118.4	119.4	151.1
102.5°	249.2	249.8	254.7	260.0	204.8	181.1	175.2	168.2	154.7	154.9	187.5
105°	339.2	317.0	276.9	249.4	245.2	249.4	249.4	233.6	206.1	207.1	241.0
107.5°	327.4	324.9	326.6	327.6	334.4	335.9	326.8	298.2	269.9	264.0	298.2
110°	385.7	385.7	390.0	391.0	399.5	394.2	382.6	345.6	309.6	301.2	332.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	449.1	450.0	451.7	457.0	461.2	453.4	435.0	394.6	353.6	336.7	367.6
115°	551.7	550.6	550.6	554.8	552.7	544.3	516.8	470.3	417.4	394.2	420.6
117.5°	649.1	643.8	645.1	643.4	646.6	629.7	597.3	540.5	483.8	451.5	470.9
120°	713.4	708.1	710.2	710.2	709.1	688.0	648.9	592.9	529.5	490.4	503.0
122.5°	775.9	772.3	772.7	770.2	767.5	747.2	701.3	642.8	573.4	525.0	532.6
125°	864.5	866.6	860.3	860.3	850.7	830.7	782.0	719.7	644.7	584.4	580.2
127.5°	948.2	951.1	944.8	941.0	933.6	903.4	859.0	796.4	715.9	645.1	628.2
130°	1004.0	1006.1	1004.0	993.4	981.8	953.3	908.9	849.7	764.1	689.0	659.5
132.5°	1059.8	1064.4	1053.9	1045.8	1028.3	998.9	955.4	897.9	812.3	730.5	693.3
135°	1140.3	1137.1	1126.6	1113.9	1095.9	1067.4	1027.2	967.0	885.6	794.7	747.2
137.5°	1199.9	1200.3	1190.0	1176.0	1157.6	1131.0	1093.0	1036.3	953.5	864.5	803.4
140°	1239.6	1237.5	1228.0	1213.2	1197.4	1169.9	1136.1	1081.1	996.6	911.0	842.3
142.5°	1267.5	1269.7	1261.8	1249.6	1231.2	1207.1	1172.4	1117.5	1043.1	954.1	882.0
145°	1314.7	1314.7	1307.3	1298.8	1281.9	1254.4	1228.0	1174.1	1103.3	1018.8	939.5
147.5°	1353.2	1353.8	1349.1	1339.2	1322.7	1299.0	1272.4	1224.2	1158.5	1080.3	1003.3
150°	1376.0	1379.2	1372.8	1365.4	1350.6	1325.3	1302.0	1255.5	1193.1	1123.4	1043.1
152.5°	1398.0	1402.0	1396.5	1387.4	1372.6	1347.2	1327.4	1281.7	1223.6	1158.9	1082.0
155°	1429.9	1433.0	1428.8	1420.4	1403.5	1380.2	1362.2	1320.0	1268.2	1209.0	1140.3
157.5°	1453.6	1458.6	1452.5	1444.9	1426.7	1406.2	1389.3	1350.0	1303.7	1254.2	1192.9
160°	1467.9	1472.2	1466.9	1458.4	1439.4	1421.4	1404.5	1368.6	1327.4	1278.8	1225.9
162.5°	1477.2	1484.0	1477.9	1468.6	1448.7	1431.6	1417.2	1383.0	1345.1	1304.1	1255.5
165°	1488.0	1493.3	1488.0	1478.5	1458.4	1443.6	1432.0	1402.4	1369.6	1335.8	1294.6
167.5°	1488.0	1494.6	1489.5	1481.2	1460.1	1448.7	1439.8	1415.1	1387.8	1359.7	1329.1
170°	1483.8	1491.2	1486.9	1479.5	1458.4	1447.8	1441.5	1419.3	1397.1	1374.9	1348.5
172.5°	1476.2	1483.6	1478.5	1471.9	1450.8	1443.6	1439.8	1421.8	1403.0	1385.1	1363.7
175°	1454.2	1463.7	1460.5	1453.1	1437.3	1432.0	1433.0	1420.4	1407.7	1397.1	1383.4
177.5°	1424.8	1431.6	1428.2	1426.5	1413.8	1412.1	1418.0	1412.1	1406.2	1402.0	1396.1
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3	2824.3
2.5°	2831.9	2823.7	2813.9	2814.1	2824.3	2830.7	2826.2	2821.7
5°	2832.4	2823.5	2812.7	2814.8	2829.9	2840.0	2835.3	2830.6
7.5°	2831.4	2825.0	2816.6	2818.3	2830.2	2837.7	2832.4	2827.0
10°	2837.4	2827.8	2814.1	2813.4	2825.7	2833.8	2829.5	2825.3
12.5°	2845.1	2831.7	2812.1	2807.0	2816.6	2822.3	2816.2	2810.1
15°	2850.2	2831.3	2802.6	2788.3	2788.3	2786.4	2778.9	2771.3
17.5°	2822.3	2798.2	2762.1	2739.3	2729.8	2720.2	2710.1	2700.0
20°	2787.9	2760.4	2719.0	2691.5	2677.9	2664.9	2654.1	2643.3
22.5°	2732.1	2704.0	2661.8	2633.0	2617.5	2603.1	2592.3	2581.5
25°	2619.9	2589.7	2546.4	2519.9	2510.0	2499.5	2487.3	2475.1
27.5°	2467.0	2443.1	2409.5	2384.1	2366.8	2351.0	2340.0	2329.0
30°	2351.4	2330.8	2302.1	2278.4	2259.5	2242.0	2228.4	2214.7
32.5°	2210.5	2194.5	2173.7	2153.7	2134.5	2116.9	2104.0	2091.2
35°	1975.8	1966.8	1956.4	1940.9	1920.2	1901.2	1887.1	1873.0
37.5°	1704.7	1696.7	1686.4	1672.3	1654.4	1637.3	1622.5	1607.8
40°	1505.0	1497.0	1486.6	1473.4	1457.5	1443.0	1433.1	1423.2
42.5°	1300.5	1295.5	1282.9	1266.7	1246.9	1230.6	1224.5	1218.4
45°	937.8	952.7	957.4	949.9	930.1	898.0	828.9	759.8
47.5°	558.7	605.4	647.4	636.3	572.3	506.0	433.3	360.6
50°	335.8	395.8	460.7	445.8	351.3	274.2	249.3	224.3
52.5°	203.6	254.1	314.1	307.4	233.9	175.7	163.2	150.7
55°	90.3	114.6	144.7	143.6	111.1	85.8	82.1	78.3
57.5°	40.8	51.6	63.8	63.9	52.1	41.3	33.9	26.5
60°	16.6	25.4	35.3	34.1	21.9	11.4	6.2	1.1
62.5°	4.9	11.3	19.3	18.9	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°	0.8	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°	3.4	4.9	6.6	8.9	10.6	11.8	12.5	13.3
90°	16.9	24.3	32.8	44.4	52.8	59.2	62.4	66.6
92.5°	38.9	53.9	65.7	79.9	95.1	103.1	108.0	109.7
95°	89.8	108.9	133.2	154.3	173.3	186.0	193.4	191.3
97.5°	139.3	174.8	202.5	227.0	249.2	264.4	276.5	275.4
100°	180.7	210.3	247.3	276.9	299.1	316.0	329.7	332.9
102.5°	222.1	250.0	290.4	323.4	349.0	367.6	377.9	387.9
105°	280.1	319.2	349.8	390.0	416.4	440.7	448.1	458.7
107.5°	340.7	383.6	417.7	451.1	482.3	502.6	518.5	526.9
110°	380.5	421.7	465.0	496.7	526.3	547.4	563.3	571.7

TEST NUMBER: P709297

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	416.0	461.4	508.1	543.2	570.3	594.8	608.1	617.4
115°	468.2	517.8	564.3	609.8	636.2	655.2	666.9	674.3
117.5°	515.9	567.7	613.0	658.8	691.8	705.7	710.2	715.7
120°	546.4	598.2	642.5	685.9	723.9	738.7	748.2	754.6
122.5°	573.4	625.2	672.1	712.9	749.3	770.0	781.2	789.2
125°	615.1	663.7	712.3	755.6	785.2	807.4	822.2	829.6
127.5°	650.2	696.9	746.7	788.4	820.3	843.8	856.0	861.7
130°	676.4	715.5	766.2	809.5	842.3	866.6	877.2	880.3
132.5°	701.7	733.2	781.4	827.3	860.0	881.8	893.2	896.4
135°	740.8	758.8	801.1	845.5	879.3	901.5	912.0	918.4
137.5°	783.9	788.6	814.8	858.3	893.2	914.6	925.1	928.9
140°	812.7	810.6	827.5	863.4	898.3	920.5	931.1	933.2
142.5°	843.1	834.3	840.2	869.3	900.8	922.2	933.6	936.6
145°	894.1	875.0	867.6	882.4	905.7	923.7	936.3	938.5
147.5°	948.8	918.2	901.5	904.2	916.9	929.6	939.5	939.7
150°	986.0	951.1	926.8	923.7	927.9	936.3	943.7	944.8
152.5°	1021.5	984.1	954.7	946.5	944.0	949.0	952.2	952.4
155°	1081.1	1041.0	1002.9	985.0	977.6	975.4	974.4	971.2
157.5°	1137.6	1094.9	1052.8	1033.4	1021.5	1015.0	1010.1	1006.7
160°	1173.1	1128.7	1087.5	1066.3	1053.6	1046.3	1038.9	1034.6
162.5°	1209.4	1167.6	1125.5	1101.0	1088.3	1080.1	1071.8	1065.1
165°	1257.6	1222.7	1180.5	1154.0	1138.2	1132.9	1125.5	1120.2
167.5°	1299.9	1272.8	1235.0	1210.1	1198.0	1188.3	1180.9	1171.4
170°	1325.3	1304.1	1267.1	1243.9	1238.6	1228.0	1220.6	1211.1
172.5°	1345.5	1328.6	1299.3	1280.2	1275.8	1269.5	1263.7	1255.9
175°	1372.8	1364.4	1342.2	1328.4	1328.4	1326.3	1325.3	1315.7
177.5°	1391.8	1387.6	1374.9	1368.2	1374.1	1375.8	1371.5	1363.9
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

(END OF REPORT)