

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: P709291

Luminaire Tested: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709291  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6221.3 lumens  
Efficiency: N/A  
Efficacy: 121.5 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: Semi-Indirect

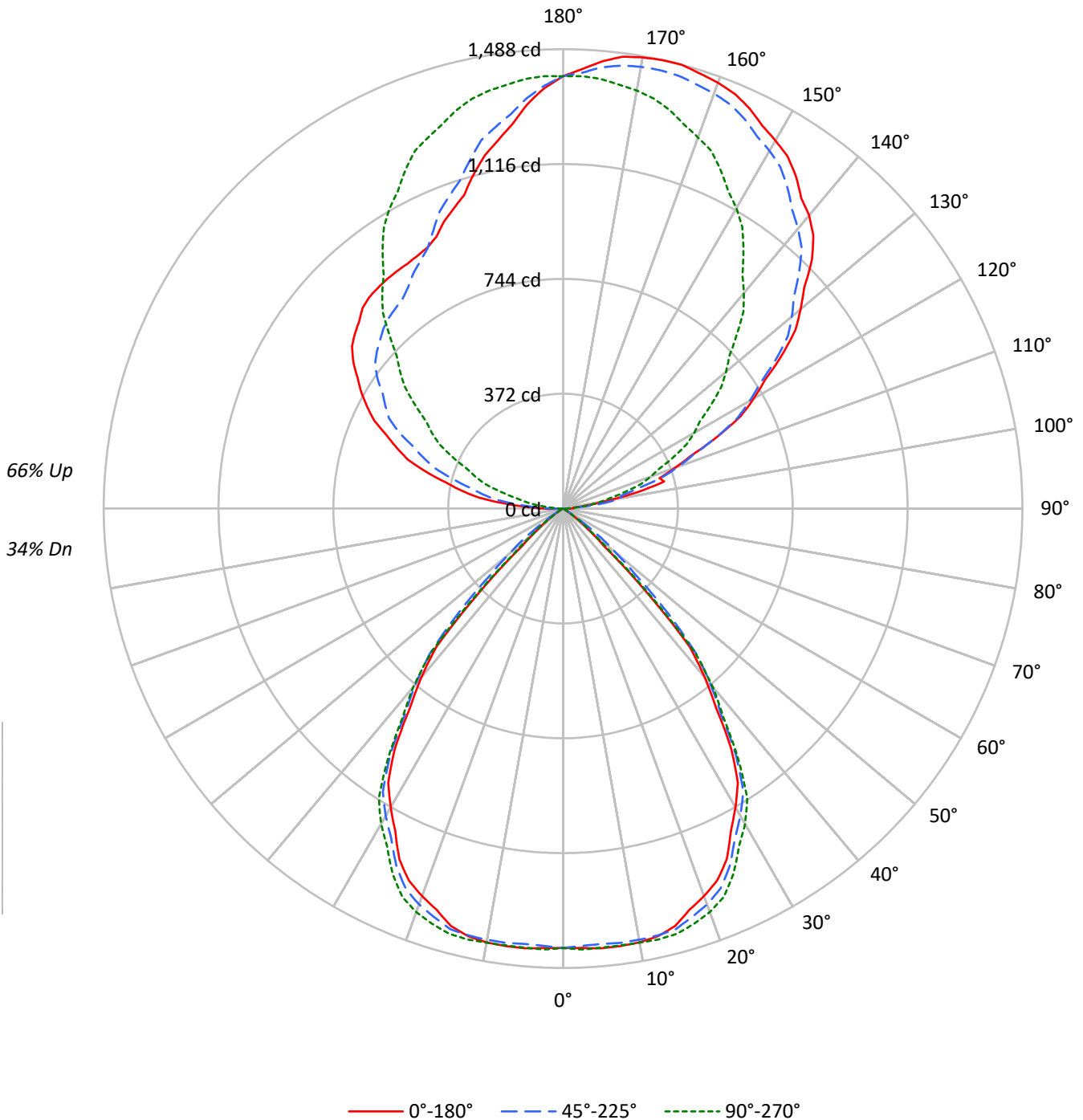
Input Watts (W): 51.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709291

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### Luminous Intensity Polar Plot



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**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	0
RCR																		
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34
1	96	92	89	86	86	83	81	78	67	65	64	52	51	50	39	38	38	31
2	88	82	77	72	80	74	70	66	61	58	55	48	46	44	36	35	34	29
3	81	73	67	62	74	67	61	57	55	51	48	44	41	39	33	32	31	26
4	75	66	59	54	68	60	54	50	50	45	42	40	37	35	31	29	28	24
5	69	59	52	47	63	54	48	44	45	41	37	36	33	31	28	27	25	22
6	64	54	46	41	58	49	43	39	41	37	33	33	30	28	26	24	23	20
7	60	49	42	37	54	45	39	34	38	33	30	31	28	25	24	22	21	18
8	56	45	38	33	51	41	35	31	35	30	27	28	25	23	23	21	19	17
9	52	41	34	30	47	38	32	28	32	27	24	26	23	21	21	19	18	15
10	49	38	31	27	44	35	29	25	30	25	22	24	21	19	20	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	22982	22982	22982	22982	22982
5°	23174	22941	23139	22941	23174
10°	23389	23250	23407	23250	23389
15°	23405	23571	23829	23571	23405
20°	22948	23446	23893	23446	22948
25°	22342	22760	23266	22760	22342
30°	20816	21422	21981	21422	20816
35°	18711	19256	19484	19256	18711
40°	15057	15672	15905	15672	15057
45°	8725	10994	9376	10994	8725
50°	2818	5670	3162	5670	2818
55°	1132	1996	1072	1996	1132
60°	36	563	103	563	36
65°	0	31	0	31	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: 11040 cd/sqm

TEST NUMBER: P709291

CATALOG NUMBER: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	2.2
10°-20°	398.1	6.4
20°-30°	585.9	9.4
30°-40°	598.6	9.6
40°-50°	344.1	5.5
50°-60°	60.1	1.0
60°-70°	2.2	0.0
70°-80°	0.0	0.0
80°-90°	7.5	0.1
90°-100°	111.4	1.8
100°-110°	325.4	5.2
110°-120°	530.7	8.5
120°-130°	673.4	10.8
130°-140°	720.5	11.6
140°-150°	672.7	10.8
150°-160°	553.4	8.9
160°-170°	371.2	6.0
170°-180°	131.8	2.1
0°-30°	1120.0	18.0
0°-40°	1718.6	27.6
0°-60°	2122.9	34.1
0°-90°	2132.5	34.3
90°-120°	967.5	15.6
90°-150°	3034.0	48.8
90°-180°	4090.0	65.7
0°-180°	6221.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1423	1423	1423	1423	1423	
5°	1430	1415	1428	1415	1430	136
15°	1400	1410	1426	1410	1400	393
25°	1254	1278	1306	1278	1254	571
35°	949	977	988	977	949	581
45°	382	482	411	482	382	299
55°	40	71	38	71	40	41
65°	0	1	0	1	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	

TEST NUMBER: P709291

CATALOG NUMBER: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1424.3	1425.8	1427.3	1423.4	1417.8	1417.4	1422.3	1426.4	1427.9	1429.4	1427.9
5°	1429.8	1430.7	1431.7	1425.2	1416.3	1414.6	1420.3	1424.9	1426.3	1427.7	1426.3
7.5°	1429.2	1431.0	1432.9	1427.5	1419.7	1417.7	1421.5	1424.6	1425.7	1426.8	1425.7
10°	1426.6	1428.5	1430.4	1425.6	1418.5	1417.8	1423.4	1427.7	1427.7	1427.7	1427.7
12.5°	1419.0	1421.6	1424.3	1420.8	1415.2	1417.1	1426.5	1433.1	1431.2	1429.4	1431.2
15°	1400.2	1403.5	1406.7	1407.2	1406.7	1413.6	1427.7	1436.8	1431.2	1425.6	1431.2
17.5°	1362.7	1367.7	1372.7	1377.2	1381.6	1393.5	1412.8	1425.3	1417.7	1410.1	1417.7
20°	1335.6	1339.8	1344.1	1350.4	1357.5	1371.6	1392.8	1406.6	1398.6	1390.6	1398.6
22.5°	1304.3	1308.9	1313.5	1319.1	1325.0	1339.1	1361.4	1376.2	1368.6	1361.0	1368.6
25°	1254.1	1256.9	1259.8	1265.0	1271.2	1283.9	1303.1	1316.3	1311.1	1306.0	1311.1
27.5°	1177.5	1182.2	1186.9	1192.8	1199.1	1210.6	1227.4	1239.3	1236.6	1234.0	1236.6
30°	1116.5	1123.1	1129.7	1136.6	1143.7	1154.3	1168.4	1179.0	1179.0	1179.0	1179.0
32.5°	1053.9	1060.1	1066.3	1074.0	1082.2	1090.9	1100.1	1107.4	1108.9	1110.4	1108.9
35°	949.3	954.5	959.7	966.2	973.3	980.6	988.1	993.2	990.8	988.5	990.8
37.5°	815.1	818.7	822.3	829.2	837.3	845.2	852.9	858.2	855.9	853.6	855.9
40°	714.4	719.1	723.8	731.3	739.8	747.3	753.9	758.3	756.5	754.6	756.5
42.5°	606.8	613.1	619.3	627.7	636.9	644.7	650.9	653.0	642.8	632.7	642.8
45°	382.1	417.3	452.6	469.2	479.5	483.5	481.2	471.8	441.2	410.6	441.2
47.5°	179.9	214.8	249.7	284.3	318.9	325.0	302.7	278.0	246.0	214.0	246.0
50°	112.2	124.9	137.6	175.7	222.2	229.3	196.8	167.3	146.6	125.9	146.6
52.5°	75.8	82.1	88.4	117.5	154.3	156.9	125.2	99.1	90.1	81.1	90.1
55°	40.2	42.1	44.0	55.7	70.8	71.0	56.4	44.7	41.4	38.1	41.4
57.5°	15.5	18.2	20.9	26.2	32.3	32.2	26.0	20.6	17.4	14.2	17.4
60°	1.1	3.4	5.8	10.9	17.1	17.8	13.1	8.8	6.0	3.2	6.0
62.5°	0.2	0.7	1.2	4.7	9.3	9.7	5.7	2.5	1.6	0.6	1.6
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

TEST NUMBER: P709291

CATALOG NUMBER: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4

**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

TEST NUMBER: P709291

CATALOG NUMBER: DL2W-BB-M-100U-050D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1426.4	1422.3	1417.4	1417.8	1423.4	1427.3	1425.8	1424.3
5°	1424.9	1420.3	1414.6	1416.3	1425.2	1431.7	1430.7	1429.8
7.5°	1424.6	1421.5	1417.7	1419.7	1427.5	1432.9	1431.0	1429.2
10°	1427.7	1423.4	1417.8	1418.5	1425.6	1430.4	1428.5	1426.6
12.5°	1433.1	1426.5	1417.1	1415.2	1420.8	1424.3	1421.6	1419.0
15°	1436.8	1427.7	1413.6	1406.7	1407.2	1406.7	1403.5	1400.2
17.5°	1425.3	1412.8	1393.5	1381.6	1377.2	1372.7	1367.7	1362.7
20°	1406.6	1392.8	1371.6	1357.5	1350.4	1344.1	1339.8	1335.6
22.5°	1376.2	1361.4	1339.1	1325.0	1319.1	1313.5	1308.9	1304.3
25°	1316.3	1303.1	1283.9	1271.2	1265.0	1259.8	1256.9	1254.1
27.5°	1239.3	1227.4	1210.6	1199.1	1192.8	1186.9	1182.2	1177.5
30°	1179.0	1168.4	1154.3	1143.7	1136.6	1129.7	1123.1	1116.5
32.5°	1107.4	1100.1	1090.9	1082.2	1074.0	1066.3	1060.1	1053.9
35°	993.2	988.1	980.6	973.3	966.2	959.7	954.5	949.3
37.5°	858.2	852.9	845.2	837.3	829.2	822.3	818.7	815.1
40°	758.3	753.9	747.3	739.8	731.3	723.8	719.1	714.4
42.5°	653.0	650.9	644.7	636.9	627.7	619.3	613.1	606.8
45°	471.8	481.2	483.5	479.5	469.2	452.6	417.3	382.1
47.5°	278.0	302.7	325.0	318.9	284.3	249.7	214.8	179.9
50°	167.3	196.8	229.3	222.2	175.7	137.6	124.9	112.2
52.5°	99.1	125.2	156.9	154.3	117.5	88.4	82.1	75.8
55°	44.7	56.4	71.0	70.8	55.7	44.0	42.1	40.2
57.5°	20.6	26.0	32.2	32.3	26.2	20.9	18.2	15.5
60°	8.8	13.1	17.8	17.1	10.9	5.8	3.4	1.1
62.5°	2.5	5.7	9.7	9.3	4.7	1.2	0.7	0.2
65°	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	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: P709291

CATALOG NUMBER: DL2W-BB-M-100U-050D-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)