

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: P709375

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

Issue Date: 3/5/2020

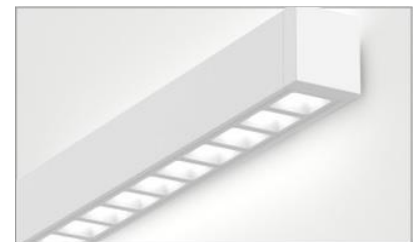
**Test Information**

Test Method: LM-79-2019  
Report Number: P709375  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-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: 6415.3 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

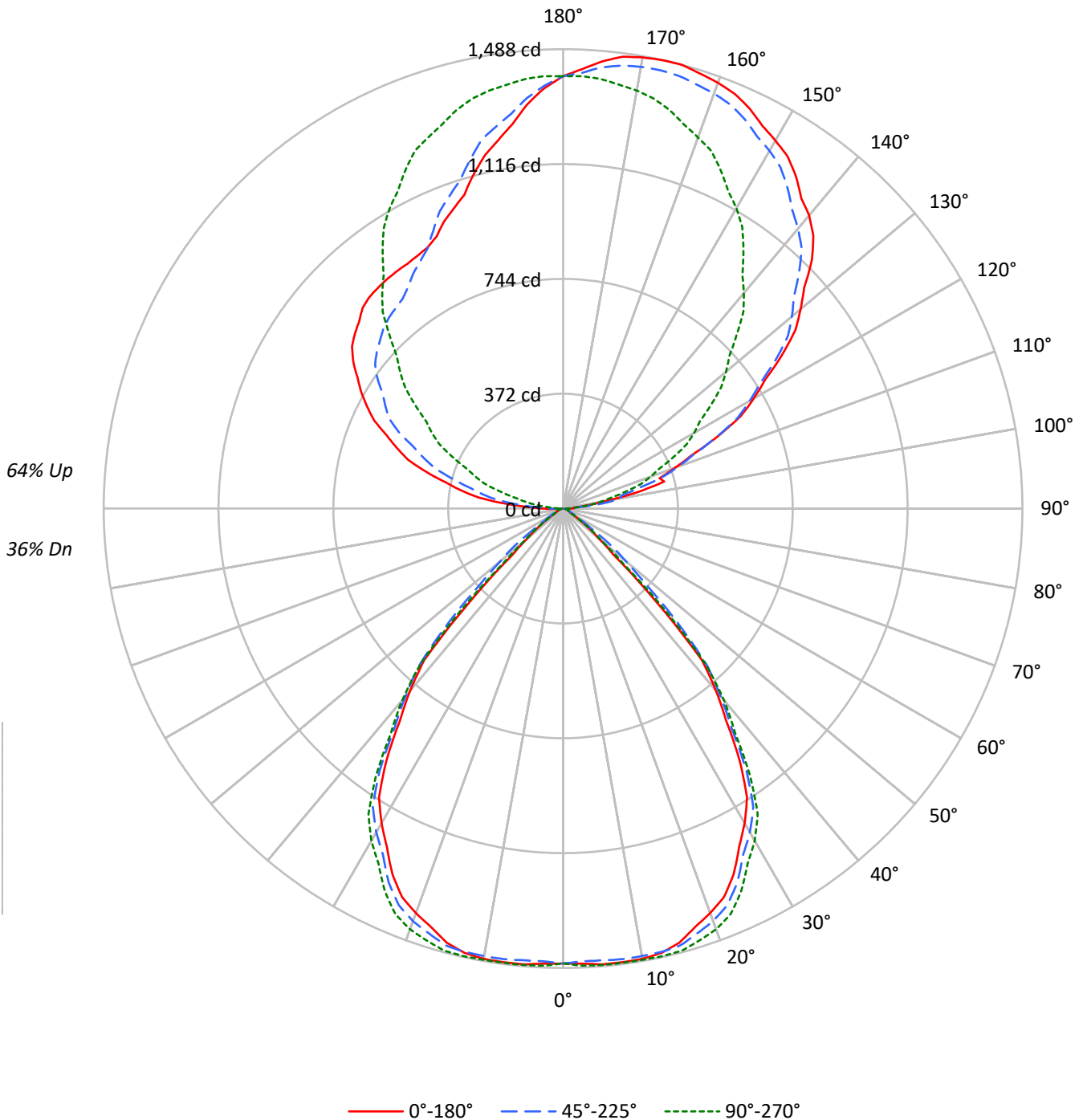
Input Watts (W): 51.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P709375

CATALOG NUMBER: DL2W-WB-M-100U-050D-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					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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				
1	96	92	89	86	87	84	81	79	68	66	65	54	53	51	40	40	39	33				
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30				
3	82	73	67	62	74	67	62	57	55	52	48	44	42	40	34	33	32	27				
4	75	66	59	54	68	60	54	50	50	46	43	41	38	35	32	30	28	25				
5	70	59	52	47	63	55	48	44	45	41	38	37	34	32	29	27	26	22				
6	65	54	46	41	59	50	43	39	41	37	33	34	31	28	27	25	23	20				
7	60	49	42	37	55	45	39	34	38	33	30	31	28	26	25	23	21	19				
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17				
9	52	41	34	29	48	38	32	28	32	28	24	27	23	21	22	19	18	16				
10	49	38	31	27	45	35	29	25	30	25	22	25	22	19	20	18	16	14				

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

	0°	45°	90°	135°	180°
0°	23791	23791	23791	23791	23791
5°	24018	23803	24052	23803	24018
10°	24279	24128	24330	24128	24279
15°	24329	24495	24789	24495	24329
20°	23953	24430	24917	24430	23953
25°	23291	23802	24346	23802	23291
30°	21929	22565	23152	22565	21929
35°	19681	20408	20808	20408	19681
40°	16252	16737	17100	16737	16252
45°	9757	12085	10821	12085	9757
50°	3853	6664	4197	6664	3853
55°	2055	3023	2024	3023	2055
60°	888	1506	956	1506	888
65°	810	917	848	917	810
70°	798	854	850	854	798
75°	724	852	792	852	724
80°	688	790	790	790	688
85°	593	778	778	778	593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 12166 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	2.2
10°-20°	414.0	6.5
20°-30°	613.0	9.6
30°-40°	635.0	9.9
40°-50°	381.7	5.9
50°-60°	91.1	1.4
60°-70°	24.9	0.4
70°-80°	13.9	0.2
80°-90°	10.3	0.2
90°-100°	111.4	1.7
100°-110°	325.4	5.1
110°-120°	530.7	8.3
120°-130°	673.4	10.5
130°-140°	720.5	11.2
140°-150°	672.7	10.5
150°-160°	553.4	8.6
160°-170°	371.2	5.8
170°-180°	131.8	2.1
0°-30°	1168.1	18.2
0°-40°	1803.1	28.1
0°-60°	2275.9	35.5
0°-90°	2324.9	36.2
90°-120°	967.5	15.1
90°-150°	3034.0	47.3
90°-180°	4090.0	63.8
0°-180°	6415.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1482	1469	1484	1469	1482	141
15°	1456	1465	1483	1465	1456	409
25°	1307	1336	1367	1336	1307	597
35°	998	1035	1056	1035	998	615
45°	427	529	474	529	427	337
55°	73	107	72	107	73	70
65°	21	24	22	24	21	22
75°	12	14	13	14	12	13
85°	3	4	4	4	3	4
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.2	1476.7	1478.2	1474.0	1468.0	1467.6	1472.9	1477.4	1479.7	1481.9	1479.7
5°	1481.9	1482.9	1483.8	1477.7	1469.2	1468.1	1474.2	1479.3	1481.7	1484.0	1481.7
7.5°	1481.7	1483.1	1484.5	1479.6	1472.6	1471.6	1476.8	1481.0	1482.5	1484.0	1482.5
10°	1480.9	1482.3	1483.7	1478.8	1471.7	1471.7	1478.8	1484.0	1484.0	1484.0	1484.0
12.5°	1474.1	1476.3	1478.4	1475.1	1469.9	1472.2	1481.9	1488.7	1486.8	1484.9	1486.8
15°	1455.5	1458.8	1462.1	1462.5	1462.1	1468.7	1482.3	1491.5	1487.2	1483.0	1487.2
17.5°	1421.2	1425.7	1430.2	1434.1	1437.8	1449.0	1467.8	1480.3	1473.7	1467.1	1473.7
20°	1394.1	1397.9	1401.7	1407.9	1414.9	1428.8	1449.5	1463.4	1456.8	1450.2	1456.8
22.5°	1362.0	1366.1	1370.3	1376.3	1383.0	1397.4	1419.6	1434.5	1427.5	1420.6	1427.5
25°	1307.4	1311.2	1314.9	1321.5	1329.0	1343.1	1363.8	1377.9	1372.3	1366.6	1372.3
27.5°	1235.5	1239.6	1243.7	1250.1	1257.1	1269.6	1287.4	1300.2	1297.7	1295.1	1297.7
30°	1176.2	1181.9	1187.5	1195.6	1204.6	1216.1	1230.2	1240.9	1241.3	1241.8	1241.3
32.5°	1109.4	1116.9	1124.4	1132.7	1141.3	1152.0	1165.0	1174.6	1173.9	1173.3	1173.9
35°	998.5	1006.5	1014.5	1022.9	1031.3	1039.5	1047.5	1053.8	1054.7	1055.7	1054.7
37.5°	870.1	873.2	876.3	883.9	893.1	901.9	910.5	916.7	916.0	915.4	916.0
40°	771.1	771.6	772.1	779.6	789.4	798.8	807.8	814.1	812.7	811.3	812.7
42.5°	665.3	667.3	669.3	677.5	687.7	696.2	702.9	705.2	694.8	684.4	694.8
45°	427.3	462.1	496.9	514.4	526.2	532.3	532.8	526.5	500.2	473.9	500.2
47.5°	223.6	257.9	292.2	327.0	361.9	370.1	351.5	329.4	296.5	263.6	296.5
50°	153.4	165.1	176.9	214.7	261.3	269.3	238.7	210.4	188.8	167.1	188.8
52.5°	111.9	119.2	126.4	155.8	192.5	195.8	165.6	140.3	129.6	118.9	129.6
55°	73.0	74.9	76.7	89.9	106.8	108.0	93.4	81.3	76.6	71.9	76.6
57.5°	43.6	47.5	51.5	57.5	64.1	64.3	58.0	52.3	48.1	44.0	48.1
60°	27.5	30.3	33.1	39.1	46.2	47.1	42.0	37.1	33.4	29.6	33.4
62.5°	25.0	25.9	26.8	31.0	36.1	36.5	32.1	28.5	27.4	26.2	27.4
65°	21.2	21.6	22.1	22.9	23.9	24.1	23.6	23.2	22.7	22.2	22.7
67.5°	18.6	19.1	19.6	20.0	20.3	20.6	20.7	20.6	20.1	19.7	20.1
70°	16.9	17.4	17.9	18.0	18.0	18.2	18.7	18.9	18.5	18.0	18.5
72.5°	15.2	15.3	15.4	15.7	16.1	16.3	16.4	16.5	16.4	16.3	16.4
75°	11.6	12.1	12.6	13.0	13.5	13.8	13.8	13.6	13.2	12.7	13.2
77.5°	9.1	9.6	10.0	10.2	10.2	10.3	10.7	10.9	10.5	10.2	10.5
80°	7.4	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.7	6.2	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.2	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	6.8	7.0	7.0	6.6	7.0	7.0	6.1	5.3	3.8	2.5	3.6
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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1477.4	1472.9	1467.6	1468.0	1474.0	1478.2	1476.7	1475.2
5°	1479.3	1474.2	1468.1	1469.2	1477.7	1483.8	1482.9	1481.9
7.5°	1481.0	1476.8	1471.6	1472.6	1479.6	1484.5	1483.1	1481.7
10°	1484.0	1478.8	1471.7	1471.7	1478.8	1483.7	1482.3	1480.9
12.5°	1488.7	1481.9	1472.2	1469.9	1475.1	1478.4	1476.3	1474.1
15°	1491.5	1482.3	1468.7	1462.1	1462.5	1462.1	1458.8	1455.5
17.5°	1480.3	1467.8	1449.0	1437.8	1434.1	1430.2	1425.7	1421.2
20°	1463.4	1449.5	1428.8	1414.9	1407.9	1401.7	1397.9	1394.1
22.5°	1434.5	1419.6	1397.4	1383.0	1376.3	1370.3	1366.1	1362.0
25°	1377.9	1363.8	1343.1	1329.0	1321.5	1314.9	1311.2	1307.4
27.5°	1300.2	1287.4	1269.6	1257.1	1250.1	1243.7	1239.6	1235.5
30°	1240.9	1230.2	1216.1	1204.6	1195.6	1187.5	1181.9	1176.2
32.5°	1174.6	1165.0	1152.0	1141.3	1132.7	1124.4	1116.9	1109.4
35°	1053.8	1047.5	1039.5	1031.3	1022.9	1014.5	1006.5	998.5
37.5°	916.7	910.5	901.9	893.1	883.9	876.3	873.2	870.1
40°	814.1	807.8	798.8	789.4	779.6	772.1	771.6	771.1
42.5°	705.2	702.9	696.2	687.7	677.5	669.3	667.3	665.3
45°	526.5	532.8	532.3	526.2	514.4	496.9	462.1	427.3
47.5°	329.4	351.5	370.1	361.9	327.0	292.2	257.9	223.6
50°	210.4	238.7	269.3	261.3	214.7	176.9	165.1	153.4
52.5°	140.3	165.6	195.8	192.5	155.8	126.4	119.2	111.9
55°	81.3	93.4	108.0	106.8	89.9	76.7	74.9	73.0
57.5°	52.3	58.0	64.3	64.1	57.5	51.5	47.5	43.6
60°	37.1	42.0	47.1	46.2	39.1	33.1	30.3	27.5
62.5°	28.5	32.1	36.5	36.1	31.0	26.8	25.9	25.0
65°	23.2	23.6	24.1	23.9	22.9	22.1	21.6	21.2
67.5°	20.6	20.7	20.6	20.3	20.0	19.6	19.1	18.6
70°	18.9	18.7	18.2	18.0	18.0	17.9	17.4	16.9
72.5°	16.5	16.4	16.3	16.1	15.7	15.4	15.3	15.2
75°	13.6	13.8	13.8	13.5	13.0	12.6	12.1	11.6
77.5°	10.9	10.7	10.3	10.2	10.2	10.0	9.6	9.1
80°	8.5	8.5	8.5	8.5	8.5	8.3	7.9	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.7	6.2	5.7
85°	4.2	4.2	4.2	4.2	4.2	4.1	3.6	3.2
87.5°	5.1	6.6	8.2	10.4	11.7	12.7	13.3	14.2
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: P709375

CATALOG NUMBER: DL2W-WB-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)