

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: P709379

Luminaire Tested: DL2W-WB-M-100U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

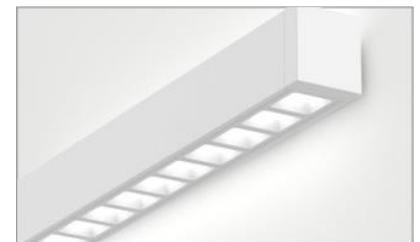
**Test Information**

Test Method: LM-79-2019  
Report Number: P709379  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-100U-100D-930-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: 7921.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

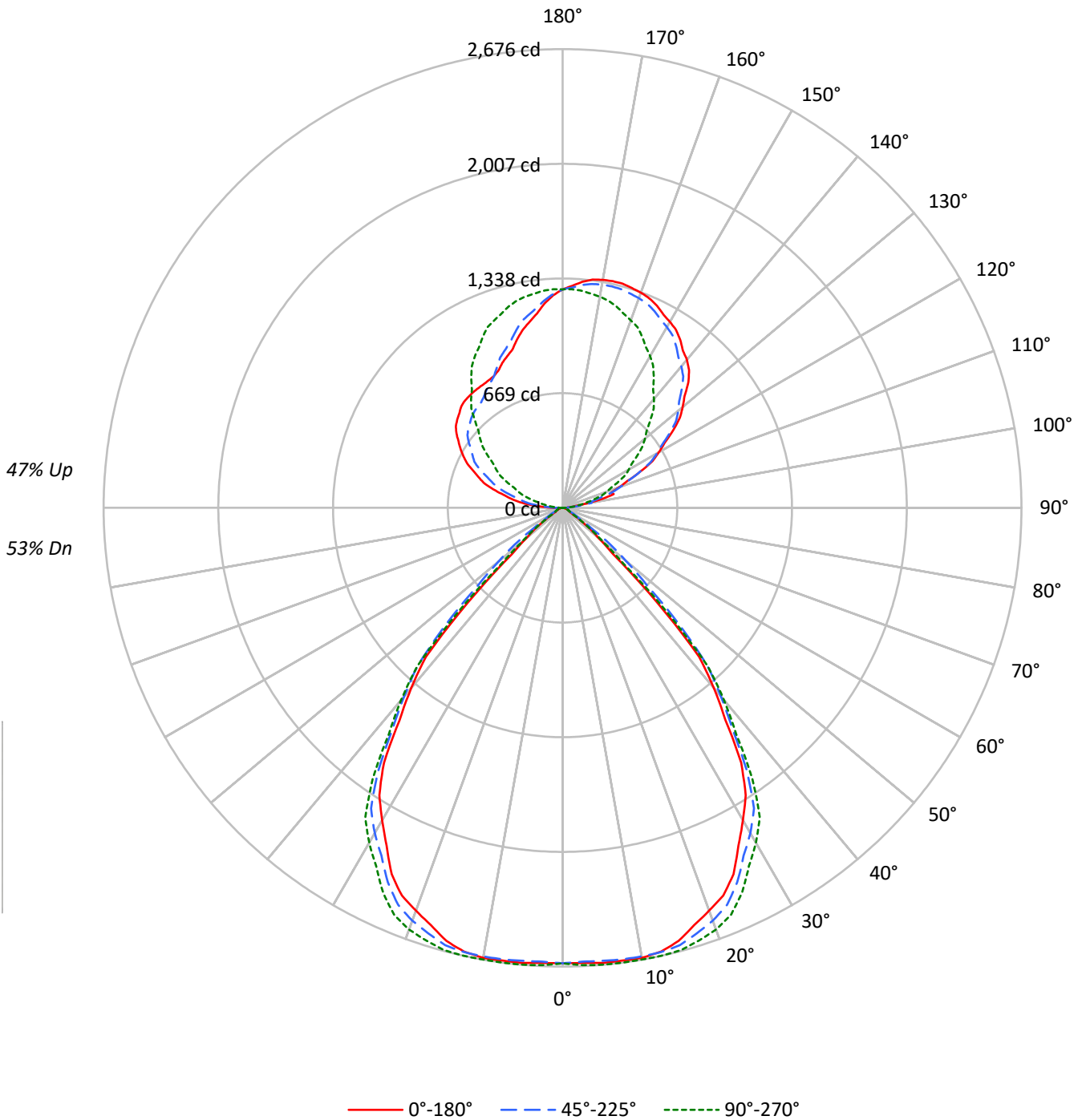
Input Watts (W): 71.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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CATALOG NUMBER: DL2W-WB-M-100U-100D-930-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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	97	93	91	93	90	87	85	77	75	74	66	64	63	55	54	53	48
2	93	87	82	77	86	81	77	73	70	67	64	60	58	56	51	49	48	44
3	86	78	72	67	80	73	68	63	64	60	56	55	52	50	47	45	43	40
4	80	71	64	59	74	66	60	56	58	54	50	50	47	45	43	41	39	36
5	74	64	57	52	69	60	54	49	53	48	45	46	43	40	40	38	36	33
6	69	58	51	46	64	55	49	44	49	44	40	43	39	36	37	34	32	30
7	64	53	46	41	60	50	44	39	45	40	36	39	36	33	35	32	30	27
8	60	49	42	37	56	46	40	36	41	36	33	37	33	30	32	29	27	25
9	56	45	38	34	53	43	37	32	38	33	30	34	30	27	30	27	25	23
10	53	42	35	31	49	40	34	30	35	31	27	32	28	25	28	25	23	21

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

	0°	45°	90°	135°	180°
0°	42899	42899	42899	42899	42899
5°	43188	42996	43358	42996	43188
10°	43702	43562	43860	43562	43702
15°	43721	44157	44637	44157	43721
20°	42959	44033	44974	44033	42959
25°	42006	42942	44113	42942	42006
30°	39209	40834	42041	40834	39209
35°	35784	36941	38041	36941	35784
40°	28922	30290	30888	30290	28922
45°	17785	21892	19783	21892	17785
50°	6980	12152	7754	12152	6980
55°	3654	5534	3654	5534	3654
60°	1582	2719	1741	2719	1582
65°	1471	1641	1578	1641	1471
70°	1407	1548	1496	1548	1407
75°	1379	1500	1497	1500	1379
80°	1339	1441	1432	1441	1339
85°	1241	1260	1241	1260	1241

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 22112 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.5	3.2
10°-20°	745.9	9.4
20°-30°	1107.0	14.0
30°-40°	1149.8	14.5
40°-50°	691.9	8.7
50°-60°	165.7	2.1
60°-70°	44.9	0.6
70°-80°	25.2	0.3
80°-90°	13.2	0.2
90°-100°	101.4	1.3
100°-110°	296.2	3.7
110°-120°	483.0	6.1
120°-130°	612.9	7.7
130°-140°	655.7	8.3
140°-150°	612.2	7.7
150°-160°	503.7	6.4
160°-170°	337.8	4.3
170°-180°	120.0	1.5
0°-30°	2107.4	26.6
0°-40°	3257.3	41.1
0°-60°	4114.9	51.9
0°-90°	4198.3	53.0
90°-120°	880.5	11.1
90°-150°	2761.2	34.9
90°-180°	3723.0	47.0
0°-180°	7921.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2657	2657	2657	2657	2657	
5°	2665	2653	2675	2653	2665	254
15°	2616	2642	2670	2642	2616	735
25°	2358	2410	2476	2410	2358	1074
35°	1816	1874	1930	1874	1816	1106
45°	779	959	866	959	779	603
55°	130	197	130	197	130	127
65°	38	43	41	43	38	39
75°	22	24	24	24	22	23
85°	7	7	7	7	7	8
90°	27	24	4	35	61	13
95°	30	38	39	131	174	49
105°	309	225	188	337	417	283
115°	502	499	359	534	614	495
125°	787	765	532	668	755	701
135°	1038	984	723	749	836	794
145°	1196	1154	927	796	854	748
155°	1301	1267	1100	905	884	599
165°	1354	1321	1216	1062	1020	382
175°	1323	1306	1272	1215	1197	127
180°	1274	1274	1274	1274	1274	

TEST NUMBER: P709379

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2657.0	2661.1	2665.2	2659.0	2649.5	2648.9	2657.5	2664.6	2667.3	2670.1	2667.3
5°	2664.7	2669.4	2674.1	2665.9	2653.6	2652.1	2661.5	2669.3	2672.3	2675.2	2672.3
7.5°	2664.1	2669.3	2674.5	2667.6	2656.7	2656.8	2668.0	2676.4	2676.2	2676.0	2676.2
10°	2665.6	2669.5	2673.3	2666.6	2656.3	2657.8	2671.1	2680.4	2677.8	2675.2	2677.8
12.5°	2651.8	2657.7	2663.6	2659.4	2651.9	2656.5	2673.1	2684.6	2680.3	2676.0	2680.3
15°	2615.6	2624.2	2632.7	2635.2	2635.6	2647.8	2671.7	2687.5	2679.0	2670.4	2679.0
17.5°	2552.5	2562.6	2572.7	2582.5	2592.1	2613.2	2645.6	2667.2	2656.6	2646.0	2656.6
20°	2500.2	2511.3	2522.5	2535.8	2549.9	2575.6	2612.7	2638.1	2627.8	2617.5	2627.8
22.5°	2447.9	2456.0	2464.0	2477.3	2492.5	2520.5	2561.5	2589.5	2578.9	2568.3	2578.9
25°	2357.9	2364.3	2370.7	2382.9	2397.0	2423.9	2463.7	2491.6	2483.9	2476.2	2483.9
27.5°	2221.5	2232.5	2243.4	2258.4	2274.7	2300.2	2334.7	2360.0	2357.5	2355.0	2357.5
30°	2103.1	2121.9	2140.7	2159.2	2177.5	2203.0	2235.5	2259.3	2257.1	2255.0	2257.1
32.5°	1987.7	2007.2	2026.7	2046.6	2066.7	2089.0	2113.7	2133.0	2136.7	2140.4	2136.7
35°	1815.5	1825.0	1834.4	1849.2	1865.9	1882.5	1899.2	1913.7	1921.9	1930.0	1921.9
37.5°	1560.7	1572.0	1583.3	1601.1	1621.1	1637.2	1649.4	1659.1	1661.2	1663.2	1661.2
40°	1372.2	1385.9	1399.6	1413.9	1428.4	1445.8	1465.8	1479.2	1472.4	1465.5	1472.4
42.5°	1179.1	1190.8	1202.4	1220.8	1241.5	1260.7	1278.4	1287.5	1270.7	1254.0	1270.7
45°	778.9	841.3	903.7	933.7	953.0	964.5	968.4	959.6	913.0	866.4	913.0
47.5°	399.5	463.3	527.2	591.5	656.1	671.7	638.6	599.1	540.4	481.8	540.4
50°	277.9	299.7	321.5	390.7	475.8	491.8	438.8	389.0	348.9	308.7	348.9
52.5°	204.8	216.7	228.6	282.0	349.3	356.9	305.0	260.5	238.4	216.4	238.4
55°	129.8	134.9	140.1	164.8	196.0	197.2	168.6	145.2	137.5	129.8	137.5
57.5°	76.7	84.9	93.0	103.4	114.6	114.6	103.5	93.3	85.9	78.5	85.9
60°	49.0	55.5	61.9	72.1	83.7	84.7	75.3	66.7	60.3	53.9	60.3
62.5°	44.4	46.7	49.0	56.2	65.0	65.6	57.9	51.5	49.2	46.9	49.2
65°	38.5	39.7	41.0	42.0	42.8	43.1	42.6	42.2	41.8	41.3	41.8
67.5°	33.7	34.6	35.5	36.0	36.4	36.8	37.2	37.3	36.4	35.6	36.4
70°	29.8	31.1	32.4	32.7	32.7	32.9	33.3	33.4	32.6	31.7	32.6
72.5°	26.7	27.7	28.6	29.1	29.4	29.8	30.3	30.4	29.5	28.7	29.5
75°	22.1	22.5	23.0	23.4	23.8	24.3	24.7	24.9	24.5	24.0	24.5
77.5°	17.5	17.9	18.4	18.7	19.1	19.3	19.4	19.3	18.9	18.5	18.9
80°	14.4	14.9	15.3	15.4	15.4	15.6	16.0	16.2	15.8	15.4	15.8
82.5°	11.3	11.4	11.5	11.8	12.1	12.4	12.4	12.5	12.4	12.3	12.4
85°	6.7	6.7	6.7	6.7	6.7	6.9	7.4	7.6	7.2	6.7	7.2
87.5°	7.7	7.9	7.9	7.3	7.3	7.1	6.3	5.6	4.2	3.1	4.0
90°	26.9	27.9	27.9	25.0	25.0	24.0	20.2	16.4	9.6	3.8	8.7
92.5°	33.1	32.5	32.5	31.2	29.6	27.1	22.5	21.7	23.5	14.6	24.8
95°	29.8	29.8	28.9	28.9	33.7	42.3	62.5	68.3	44.2	39.4	56.7
97.5°	68.3	72.7	81.0	93.5	114.8	122.5	113.3	85.4	80.8	77.9	103.7
100°	129.8	140.4	151.0	163.5	189.5	154.8	120.2	115.4	107.7	108.7	137.5
102.5°	226.8	227.4	231.8	236.6	186.4	164.9	159.5	153.1	140.8	141.0	170.6
105°	308.7	288.5	252.0	227.0	223.1	227.0	227.0	212.6	187.6	188.5	219.3
107.5°	298.0	295.7	297.2	298.2	304.3	305.7	297.4	271.4	245.6	240.3	271.4
110°	351.1	351.1	354.9	355.9	363.6	358.8	348.2	314.5	281.8	274.1	303.0

TEST NUMBER: P709379

CATALOG NUMBER: DL2W-WB-M-100U-100D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	408.8	409.5	411.1	415.9	419.7	412.6	395.9	359.1	321.8	306.4	334.5
115°	502.1	501.1	501.1	504.9	503.0	495.3	470.3	428.0	379.9	358.8	382.8
117.5°	590.7	585.9	587.1	585.5	588.4	573.0	543.6	491.9	440.3	410.9	428.6
120°	649.2	644.4	646.3	646.3	645.4	626.1	590.5	539.6	481.9	446.3	457.8
122.5°	706.2	702.9	703.3	701.0	698.5	680.0	638.2	585.0	521.9	477.8	484.7
125°	786.8	788.7	782.9	782.9	774.2	756.0	711.7	655.0	586.7	531.9	528.0
127.5°	862.9	865.6	859.8	856.4	849.7	822.1	781.7	724.8	651.5	587.1	571.7
130°	913.7	915.6	913.7	904.1	893.5	867.5	827.1	773.3	695.4	627.1	600.2
132.5°	964.5	968.7	959.1	951.8	935.8	909.1	869.5	817.1	739.2	664.8	630.9
135°	1037.8	1034.9	1025.3	1013.7	997.4	971.4	934.9	880.0	806.0	723.3	680.0
137.5°	1092.0	1092.4	1083.0	1070.3	1053.6	1029.3	994.7	943.1	867.7	786.8	731.2
140°	1128.2	1126.3	1117.6	1104.1	1089.7	1064.7	1033.9	983.9	907.0	829.1	766.6
142.5°	1153.6	1155.5	1148.4	1137.2	1120.5	1098.6	1067.0	1017.0	949.3	868.3	802.7
145°	1196.5	1196.5	1189.7	1182.1	1166.7	1141.7	1117.6	1068.6	1004.1	927.2	855.0
147.5°	1231.5	1232.1	1227.8	1218.8	1203.8	1182.2	1158.0	1114.1	1054.3	983.2	913.1
150°	1252.3	1255.1	1249.4	1242.6	1229.2	1206.1	1184.9	1142.6	1085.9	1022.4	949.3
152.5°	1272.3	1275.9	1270.9	1262.6	1249.2	1226.1	1208.0	1166.5	1113.6	1054.7	984.7
155°	1301.3	1304.2	1300.4	1292.7	1277.3	1256.1	1239.8	1201.3	1154.2	1100.3	1037.8
157.5°	1322.9	1327.5	1321.9	1315.0	1298.4	1279.8	1264.4	1228.6	1186.5	1141.5	1085.7
160°	1335.9	1339.8	1335.0	1327.3	1310.0	1293.6	1278.2	1245.5	1208.0	1163.8	1115.7
162.5°	1344.4	1350.6	1345.0	1336.5	1318.4	1302.9	1289.8	1258.6	1224.2	1186.9	1142.6
165°	1354.2	1359.0	1354.2	1345.6	1327.3	1313.8	1303.2	1276.3	1246.5	1215.7	1178.2
167.5°	1354.2	1360.2	1355.6	1348.1	1328.8	1318.4	1310.4	1287.8	1263.0	1237.4	1209.6
170°	1350.4	1357.1	1353.3	1346.5	1327.3	1317.7	1311.9	1291.7	1271.5	1251.3	1227.3
172.5°	1343.4	1350.2	1345.6	1339.6	1320.4	1313.8	1310.4	1294.0	1276.9	1260.5	1241.1
175°	1323.4	1332.1	1329.2	1322.5	1308.0	1303.2	1304.2	1292.7	1281.1	1271.5	1259.0
177.5°	1296.7	1302.9	1299.8	1298.2	1286.7	1285.2	1290.5	1285.2	1279.8	1275.9	1270.5
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2664.6	2657.5	2648.9	2649.5	2659.0	2665.2	2661.1	2657.0
5°	2669.3	2661.5	2652.1	2653.6	2665.9	2674.1	2669.4	2664.7
7.5°	2676.4	2668.0	2656.8	2656.7	2667.6	2674.5	2669.3	2664.1
10°	2680.4	2671.1	2657.8	2656.3	2666.6	2673.3	2669.5	2665.6
12.5°	2684.6	2673.1	2656.5	2651.9	2659.4	2663.6	2657.7	2651.8
15°	2687.5	2671.7	2647.8	2635.6	2635.2	2632.7	2624.2	2615.6
17.5°	2667.2	2645.6	2613.2	2592.1	2582.5	2572.7	2562.6	2552.5
20°	2638.1	2612.7	2575.6	2549.9	2535.8	2522.5	2511.3	2500.2
22.5°	2589.5	2561.5	2520.5	2492.5	2477.3	2464.0	2456.0	2447.9
25°	2491.6	2463.7	2423.9	2397.0	2382.9	2370.7	2364.3	2357.9
27.5°	2360.0	2334.7	2300.2	2274.7	2258.4	2243.4	2232.5	2221.5
30°	2259.3	2235.5	2203.0	2177.5	2159.2	2140.7	2121.9	2103.1
32.5°	2133.0	2113.7	2089.0	2066.7	2046.6	2026.7	2007.2	1987.7
35°	1913.7	1899.2	1882.5	1865.9	1849.2	1834.4	1825.0	1815.5
37.5°	1659.1	1649.4	1637.2	1621.1	1601.1	1583.3	1572.0	1560.7
40°	1479.2	1465.8	1445.8	1428.4	1413.9	1399.6	1385.9	1372.2
42.5°	1287.5	1278.4	1260.7	1241.5	1220.8	1202.4	1190.8	1179.1
45°	959.6	968.4	964.5	953.0	933.7	903.7	841.3	778.9
47.5°	599.1	638.6	671.7	656.1	591.5	527.2	463.3	399.5
50°	389.0	438.8	491.8	475.8	390.7	321.5	299.7	277.9
52.5°	260.5	305.0	356.9	349.3	282.0	228.6	216.7	204.8
55°	145.2	168.6	197.2	196.0	164.8	140.1	134.9	129.8
57.5°	93.3	103.5	114.6	114.6	103.4	93.0	84.9	76.7
60°	66.7	75.3	84.7	83.7	72.1	61.9	55.5	49.0
62.5°	51.5	57.9	65.6	65.0	56.2	49.0	46.7	44.4
65°	42.2	42.6	43.1	42.8	42.0	41.0	39.7	38.5
67.5°	37.3	37.2	36.8	36.4	36.0	35.5	34.6	33.7
70°	33.4	33.3	32.9	32.7	32.7	32.4	31.1	29.8
72.5°	30.4	30.3	29.8	29.4	29.1	28.6	27.7	26.7
75°	24.9	24.7	24.3	23.8	23.4	23.0	22.5	22.1
77.5°	19.3	19.4	19.3	19.1	18.7	18.4	17.9	17.5
80°	16.2	16.0	15.6	15.4	15.4	15.3	14.9	14.4
82.5°	12.5	12.4	12.4	12.1	11.8	11.5	11.4	11.3
85°	7.6	7.4	6.9	6.7	6.7	6.7	6.7	6.7
87.5°	5.4	6.7	8.3	10.4	11.9	13.1	13.7	14.4
90°	15.4	22.1	29.8	40.4	48.1	53.9	56.7	60.6
92.5°	35.4	49.1	59.8	72.7	86.6	93.9	98.3	99.8
95°	81.8	99.1	121.2	140.4	157.7	169.3	176.0	174.1
97.5°	126.8	159.1	184.3	206.6	226.8	240.6	251.6	250.6
100°	164.5	191.4	225.1	252.0	272.2	287.6	300.1	303.0
102.5°	202.2	227.6	264.3	294.3	317.6	334.5	343.9	353.0
105°	254.9	290.5	318.4	354.9	378.9	401.1	407.8	417.4
107.5°	310.1	349.1	380.1	410.5	439.0	457.4	471.9	479.6
110°	346.2	383.8	423.2	452.0	479.0	498.2	512.6	520.3



TEST NUMBER: P709379

CATALOG NUMBER: DL2W-WB-M-100U-100D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	378.6	419.9	462.4	494.4	519.0	541.3	553.4	561.9
115°	426.1	471.3	513.6	555.0	579.0	596.3	606.9	613.6
117.5°	469.5	516.7	557.8	599.6	629.6	642.3	646.3	651.3
120°	497.2	544.4	584.8	624.2	658.8	672.3	681.0	686.7
122.5°	521.9	569.0	611.7	648.8	681.9	700.8	711.0	718.3
125°	559.8	604.0	648.3	687.7	714.6	734.8	748.3	755.0
127.5°	591.7	634.2	679.6	717.5	746.5	767.9	779.1	784.3
130°	615.6	651.1	697.3	736.7	766.6	788.7	798.3	801.2
132.5°	638.6	667.3	711.2	752.9	782.7	802.5	812.9	815.8
135°	674.2	690.6	729.0	769.4	800.2	820.4	830.0	835.8
137.5°	713.5	717.7	741.5	781.2	812.9	832.3	842.0	845.4
140°	739.6	737.7	753.1	785.8	817.5	837.7	847.3	849.3
142.5°	767.3	759.2	764.6	791.2	819.8	839.3	849.7	852.3
145°	813.7	796.4	789.6	803.1	824.3	840.6	852.2	854.1
147.5°	863.5	835.6	820.4	822.9	834.5	846.0	855.0	855.2
150°	897.4	865.6	843.5	840.6	844.5	852.2	858.9	859.8
152.5°	929.7	895.6	868.9	861.4	859.1	863.7	866.6	866.8
155°	983.9	947.4	912.7	896.4	889.7	887.7	886.8	883.9
157.5°	1035.3	996.4	958.1	940.4	929.7	923.7	919.3	916.2
160°	1067.6	1027.2	989.7	970.5	958.9	952.2	945.4	941.6
162.5°	1100.7	1062.6	1024.3	1002.0	990.5	983.0	975.5	969.3
165°	1144.5	1112.8	1074.3	1050.3	1035.9	1031.0	1024.3	1019.5
167.5°	1183.0	1158.4	1124.0	1101.3	1090.3	1081.4	1074.7	1066.1
170°	1206.1	1186.9	1153.2	1132.0	1127.2	1117.6	1110.9	1102.2
172.5°	1224.6	1209.2	1182.4	1165.1	1161.1	1155.3	1150.1	1143.0
175°	1249.4	1241.7	1221.5	1209.0	1209.0	1207.1	1206.1	1197.4
177.5°	1266.7	1262.8	1251.3	1245.1	1250.5	1252.1	1248.2	1241.3
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

(END OF REPORT)