

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: P709337

Luminaire Tested: DL2W-WB-M-050U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

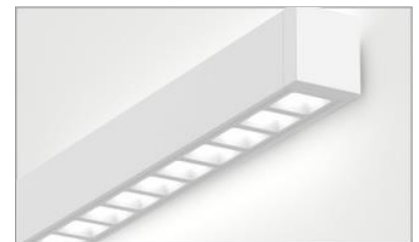
**Test Information**

Test Method: LM-79-2019  
Report Number: P709337  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-050U-050D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3941.1 lumens  
Efficiency: N/A  
Efficacy: 119.4 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: General Diffuse

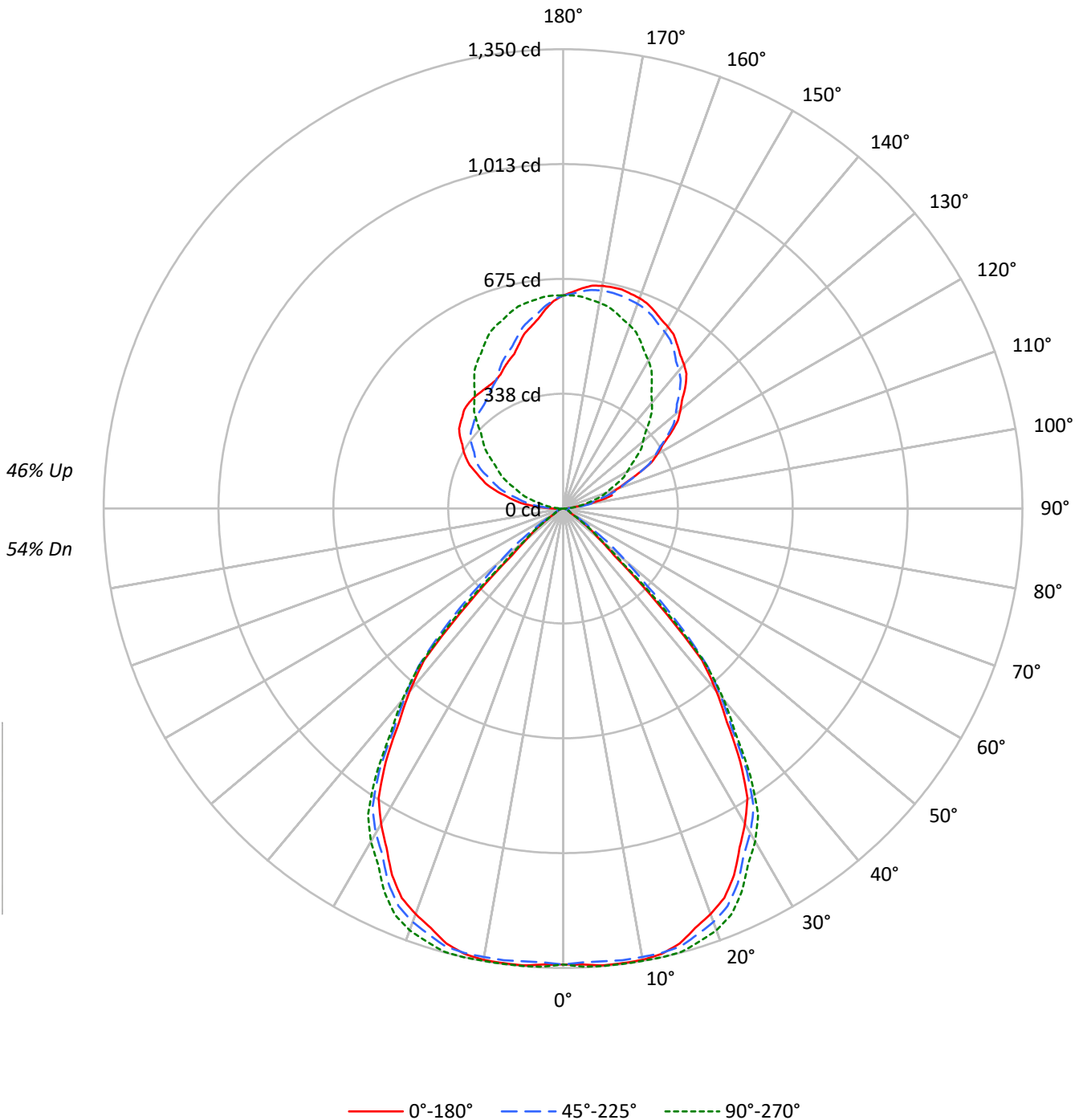
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	72	72	72	59	59	59	54
1	100	97	94	91	93	90	87	85	78	76	74	66	65	64	55	55	54	49
2	93	87	82	78	86	81	77	73	70	67	65	60	58	56	51	50	49	44
3	86	78	72	67	80	73	68	64	64	60	57	55	53	50	47	45	44	40
4	80	71	64	59	75	67	61	56	58	54	50	51	48	45	44	41	40	36
5	74	64	57	52	69	60	54	50	53	49	45	47	43	40	41	38	36	33
6	69	59	51	46	65	55	49	44	49	44	40	43	39	36	38	35	33	30
7	65	54	46	41	60	51	44	40	45	40	36	40	36	33	35	32	30	27
8	60	49	42	37	56	47	40	36	42	37	33	37	33	30	32	30	27	25
9	56	45	38	34	53	43	37	33	38	34	30	34	30	28	30	27	25	23
10	53	42	35	31	50	40	34	30	36	31	27	32	28	25	28	25	23	21

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

	0°	45°	90°	135°	180°
0°	21632	21632	21632	21632	21632
5°	21840	21644	21870	21644	21840
10°	22076	21940	22123	21940	22076
15°	22121	22272	22539	22272	22121
20°	21780	22215	22656	22215	21780
25°	21178	21643	22137	21643	21178
30°	19939	20517	21052	20517	19939
35°	17895	18557	18920	18557	17895
40°	14779	15220	15548	15220	14779
45°	8873	10988	9839	10988	8873
50°	3504	6059	3818	6059	3504
55°	1869	2749	1841	2749	1869
60°	807	1371	869	1371	807
65°	734	833	772	833	734
70°	727	779	774	779	727
75°	661	774	717	774	661
80°	623	716	716	716	623
85°	537	704	704	704	537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 11061 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	3.3
10°-20°	376.4	9.6
20°-30°	557.4	14.1
30°-40°	577.4	14.7
40°-50°	347.0	8.8
50°-60°	82.9	2.1
60°-70°	22.6	0.6
70°-80°	12.6	0.3
80°-90°	6.7	0.2
90°-100°	50.0	1.3
100°-110°	145.5	3.7
110°-120°	237.3	6.0
120°-130°	301.2	7.6
130°-140°	322.2	8.2
140°-150°	300.8	7.6
150°-160°	247.7	6.3
160°-170°	166.1	4.2
170°-180°	59.0	1.5
0°-30°	1062.1	27.0
0°-40°	1639.5	41.6
0°-60°	2069.4	52.5
0°-90°	2111.3	53.6
90°-120°	432.8	11.0
90°-150°	1357.0	34.4
90°-180°	1830.0	46.4
0°-180°	3941.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1340	1340	1340	1340	1340	
5°	1348	1335	1349	1335	1348	129
15°	1323	1332	1348	1332	1323	372
25°	1189	1215	1243	1215	1189	543
35°	908	942	960	942	908	559
45°	389	481	431	481	389	306
55°	66	98	65	98	66	64
65°	19	22	20	22	19	20
75°	11	12	12	12	11	12
85°	3	4	4	4	3	4
90°	14	12	2	18	29	6
95°	14	19	19	64	88	25
105°	149	112	91	166	205	139
115°	243	245	176	263	303	243
125°	387	375	263	328	370	345
135°	509	484	357	368	411	390
145°	586	568	455	391	419	367
155°	639	623	540	445	435	295
165°	666	649	597	521	500	188
175°	650	642	625	598	589	63
180°	626	626	626	626	626	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1341.3	1342.7	1344.1	1340.3	1334.8	1334.5	1339.3	1343.4	1345.4	1347.5	1345.4
5°	1347.5	1348.3	1349.2	1343.6	1335.9	1334.9	1340.4	1345.1	1347.3	1349.4	1347.3
7.5°	1347.3	1348.6	1349.9	1345.4	1339.0	1338.1	1342.8	1346.7	1348.0	1349.4	1348.0
10°	1346.5	1347.8	1349.1	1344.6	1338.2	1338.2	1344.6	1349.4	1349.4	1349.4	1349.4
12.5°	1340.4	1342.3	1344.3	1341.3	1336.6	1338.6	1347.4	1353.6	1351.9	1350.2	1351.9
15°	1323.4	1326.4	1329.4	1329.8	1329.4	1335.4	1347.8	1356.1	1352.3	1348.4	1352.3
17.5°	1292.3	1296.4	1300.5	1304.0	1307.3	1317.6	1334.7	1346.0	1340.0	1334.0	1340.0
20°	1267.6	1271.1	1274.5	1280.2	1286.6	1299.2	1318.0	1330.6	1324.6	1318.6	1324.6
22.5°	1238.4	1242.2	1245.9	1251.4	1257.5	1270.6	1290.8	1304.3	1298.0	1291.7	1298.0
25°	1188.8	1192.2	1195.6	1201.6	1208.4	1221.3	1240.1	1252.9	1247.8	1242.6	1247.8
27.5°	1123.4	1127.1	1130.9	1136.7	1143.1	1154.4	1170.6	1182.2	1179.9	1177.6	1179.9
30°	1069.5	1074.6	1079.8	1087.2	1095.3	1105.7	1118.6	1128.3	1128.7	1129.2	1128.7
32.5°	1008.7	1015.6	1022.4	1030.0	1037.7	1047.5	1059.3	1068.0	1067.4	1066.8	1067.4
35°	907.9	915.2	922.5	930.1	937.8	945.2	952.5	958.2	959.0	959.9	959.0
37.5°	791.2	794.0	796.8	803.7	812.0	820.1	827.9	833.5	832.9	832.3	832.9
40°	701.2	701.6	702.0	708.8	717.8	726.4	734.5	740.3	739.0	737.7	739.0
42.5°	605.0	606.8	608.6	616.0	625.3	633.0	639.1	641.3	631.8	622.3	631.8
45°	388.6	420.2	451.8	467.8	478.4	484.0	484.4	478.8	454.8	430.9	454.8
47.5°	203.3	234.5	265.7	297.3	329.0	336.5	319.6	299.5	269.6	239.7	269.6
50°	139.5	150.1	160.8	195.2	237.6	244.8	217.0	191.3	171.6	152.0	171.6
52.5°	101.8	108.3	114.9	141.6	175.1	178.1	150.6	127.6	117.9	108.1	117.9
55°	66.4	68.1	69.8	81.8	97.1	98.2	85.0	74.0	69.7	65.4	69.7
57.5°	39.6	43.2	46.8	52.3	58.3	58.5	52.8	47.5	43.8	40.0	43.8
60°	25.0	27.6	30.1	35.6	42.0	42.9	38.2	33.8	30.4	26.9	30.4
62.5°	22.7	23.6	24.4	28.1	32.9	33.2	29.2	25.9	24.9	23.9	24.9
65°	19.2	19.7	20.1	20.8	21.7	21.9	21.5	21.1	20.6	20.2	20.6
67.5°	16.9	17.4	17.8	18.1	18.5	18.7	18.8	18.7	18.3	17.9	18.3
70°	15.4	15.8	16.2	16.4	16.4	16.6	17.0	17.2	16.8	16.4	16.8
72.5°	13.8	13.9	14.0	14.3	14.6	14.9	14.9	15.0	14.9	14.8	14.9
75°	10.6	11.0	11.4	11.9	12.3	12.5	12.5	12.4	12.0	11.5	12.0
77.5°	8.3	8.7	9.1	9.2	9.2	9.4	9.7	9.9	9.6	9.2	9.6
80°	6.7	7.2	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	5.2	5.6	6.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	2.9	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.5	3.5	3.5	3.7	3.9	4.0	3.7	3.1	2.5	1.9	2.5
90°	13.5	13.5	13.5	13.5	12.5	12.5	10.6	7.7	4.8	1.9	4.8
92.5°	16.5	16.5	15.8	15.8	14.8	13.3	11.3	10.8	11.7	6.5	12.5
95°	14.4	14.4	14.4	14.4	16.4	22.1	30.8	32.7	22.1	19.2	26.9
97.5°	34.0	36.4	39.6	47.7	56.2	60.6	56.9	41.4	40.0	38.3	51.2
100°	70.2	70.2	75.0	80.8	92.3	76.0	57.7	56.7	53.9	52.9	67.3
102.5°	111.0	113.3	115.8	117.0	90.8	82.1	79.3	73.7	69.2	68.3	83.5
105°	149.1	142.3	122.1	110.6	110.6	112.5	110.6	103.9	94.3	91.4	107.7
107.5°	145.8	142.9	145.4	146.6	151.2	149.8	145.8	133.5	120.0	117.5	132.0
110°	171.2	172.2	173.1	175.0	178.9	176.0	171.2	155.8	138.5	133.7	148.1

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	201.2	200.6	203.1	204.3	204.3	202.9	195.1	175.8	157.0	151.4	164.3
115°	243.3	245.3	246.2	247.2	246.2	244.3	229.9	208.7	185.6	176.0	187.6
117.5°	291.8	287.4	288.7	289.5	290.1	283.2	267.4	242.4	215.6	201.4	210.2
120°	320.3	317.4	316.4	316.4	315.5	307.8	290.5	265.5	235.6	218.3	224.1
122.5°	345.7	345.1	344.9	344.1	343.9	333.2	314.3	287.8	257.2	236.0	237.9
125°	386.6	387.6	384.7	380.9	379.9	370.3	350.1	322.2	289.5	262.6	259.7
127.5°	425.5	427.4	424.3	422.2	417.0	403.8	384.5	356.6	320.1	289.9	280.5
130°	450.1	452.0	448.2	445.3	438.6	426.1	406.8	378.9	342.4	306.8	294.3
132.5°	474.7	475.1	471.3	467.6	460.1	447.6	428.4	401.3	362.4	326.8	310.5
135°	508.8	509.8	504.9	500.1	488.6	479.0	460.7	433.8	394.3	356.8	334.7
137.5°	536.9	537.1	532.8	525.7	518.0	505.7	488.8	463.4	427.0	386.6	358.6
140°	553.0	554.0	548.2	543.4	535.7	524.2	508.8	481.9	446.3	405.9	377.0
142.5°	566.9	567.8	563.6	558.8	551.1	539.6	525.7	500.3	465.5	425.9	394.7
145°	585.7	588.6	584.8	580.0	573.2	562.7	548.2	525.1	493.4	454.9	420.3
147.5°	605.7	605.9	603.0	600.2	592.5	581.1	570.7	547.6	517.4	483.6	447.4
150°	616.5	617.5	614.6	611.7	604.0	593.4	583.8	560.7	532.8	502.1	467.4
152.5°	625.7	627.5	625.4	621.7	614.8	603.4	594.6	573.0	547.5	518.2	485.1
155°	638.6	641.5	639.6	635.7	628.1	617.5	608.8	590.5	566.5	540.5	510.7
157.5°	650.9	653.6	651.5	646.9	639.0	629.6	621.3	604.0	583.6	560.9	533.6
160°	657.9	659.8	656.9	653.1	644.4	635.7	629.0	611.7	594.4	573.2	548.2
162.5°	661.7	664.4	661.5	656.9	648.3	640.4	634.4	618.6	602.1	583.2	561.3
165°	666.5	667.5	665.6	661.7	652.1	645.4	640.6	628.1	612.7	597.3	580.0
167.5°	666.1	670.0	667.1	663.4	653.1	648.3	643.8	632.7	621.3	608.4	595.5
170°	664.6	668.5	665.6	662.7	653.1	648.3	645.4	635.7	625.2	614.6	604.0
172.5°	660.8	663.8	661.7	658.8	650.0	645.9	644.6	636.5	627.5	619.2	610.2
175°	650.2	654.0	653.1	650.2	642.5	640.6	641.5	635.7	630.0	625.2	618.4
177.5°	636.9	640.8	639.2	637.7	632.3	631.5	634.6	631.5	628.4	626.9	623.8
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1343.4	1339.3	1334.5	1334.8	1340.3	1344.1	1342.7	1341.3
5°	1345.1	1340.4	1334.9	1335.9	1343.6	1349.2	1348.3	1347.5
7.5°	1346.7	1342.8	1338.1	1339.0	1345.4	1349.9	1348.6	1347.3
10°	1349.4	1344.6	1338.2	1338.2	1344.6	1349.1	1347.8	1346.5
12.5°	1353.6	1347.4	1338.6	1336.6	1341.3	1344.3	1342.3	1340.4
15°	1356.1	1347.8	1335.4	1329.4	1329.8	1329.4	1326.4	1323.4
17.5°	1346.0	1334.7	1317.6	1307.3	1304.0	1300.5	1296.4	1292.3
20°	1330.6	1318.0	1299.2	1286.6	1280.2	1274.5	1271.1	1267.6
22.5°	1304.3	1290.8	1270.6	1257.5	1251.4	1245.9	1242.2	1238.4
25°	1252.9	1240.1	1221.3	1208.4	1201.6	1195.6	1192.2	1188.8
27.5°	1182.2	1170.6	1154.4	1143.1	1136.7	1130.9	1127.1	1123.4
30°	1128.3	1118.6	1105.7	1095.3	1087.2	1079.8	1074.6	1069.5
32.5°	1068.0	1059.3	1047.5	1037.7	1030.0	1022.4	1015.6	1008.7
35°	958.2	952.5	945.2	937.8	930.1	922.5	915.2	907.9
37.5°	833.5	827.9	820.1	812.0	803.7	796.8	794.0	791.2
40°	740.3	734.5	726.4	717.8	708.8	702.0	701.6	701.2
42.5°	641.3	639.1	633.0	625.3	616.0	608.6	606.8	605.0
45°	478.8	484.4	484.0	478.4	467.8	451.8	420.2	388.6
47.5°	299.5	319.6	336.5	329.0	297.3	265.7	234.5	203.3
50°	191.3	217.0	244.8	237.6	195.2	160.8	150.1	139.5
52.5°	127.6	150.6	178.1	175.1	141.6	114.9	108.3	101.8
55°	74.0	85.0	98.2	97.1	81.8	69.8	68.1	66.4
57.5°	47.5	52.8	58.5	58.3	52.3	46.8	43.2	39.6
60°	33.8	38.2	42.9	42.0	35.6	30.1	27.6	25.0
62.5°	25.9	29.2	33.2	32.9	28.1	24.4	23.6	22.7
65°	21.1	21.5	21.9	21.7	20.8	20.1	19.7	19.2
67.5°	18.7	18.8	18.7	18.5	18.1	17.8	17.4	16.9
70°	17.2	17.0	16.6	16.4	16.4	16.2	15.8	15.4
72.5°	15.0	14.9	14.9	14.6	14.3	14.0	13.9	13.8
75°	12.4	12.5	12.5	12.3	11.9	11.4	11.0	10.6
77.5°	9.9	9.7	9.4	9.2	9.2	9.1	8.7	8.3
80°	7.7	7.7	7.7	7.7	7.7	7.6	7.2	6.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.0	5.6	5.2
85°	3.8	3.8	3.8	3.8	3.8	3.7	3.3	2.9
87.5°	2.9	3.7	4.6	5.4	5.8	6.0	6.3	6.5
90°	6.7	10.6	15.4	20.2	24.0	26.0	27.9	28.9
92.5°	17.5	23.7	30.8	36.4	42.5	46.7	48.7	48.9
95°	40.4	49.1	59.6	69.2	76.9	82.7	86.6	87.5
97.5°	62.1	78.3	90.0	101.2	112.3	119.3	123.7	124.3
100°	79.8	95.2	111.6	121.2	134.7	142.3	145.2	148.1
102.5°	99.1	112.1	130.0	144.3	157.0	163.9	169.9	172.7
105°	126.0	142.3	157.7	174.1	188.5	196.2	202.0	204.9
107.5°	151.6	171.6	187.0	202.9	215.6	225.1	232.0	234.9
110°	169.3	188.5	207.7	222.2	235.6	244.3	252.0	254.9



TEST NUMBER: P709337

CATALOG NUMBER: DL2W-WB-M-050U-050D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	186.2	206.2	227.0	243.0	255.6	266.6	272.0	277.2
115°	209.7	231.8	253.0	273.2	286.6	294.3	299.1	303.0
117.5°	230.4	252.8	274.5	294.7	308.5	314.9	317.8	321.4
120°	244.3	267.4	287.6	307.8	323.2	331.8	334.7	337.6
122.5°	257.4	279.7	300.7	320.1	335.5	344.9	349.3	351.4
125°	275.1	297.2	318.4	337.6	351.1	362.6	368.4	370.3
127.5°	289.7	311.8	334.1	352.6	366.8	376.4	382.2	384.9
130°	302.0	320.3	343.4	362.6	376.1	385.7	391.5	393.4
132.5°	312.8	328.0	349.5	369.5	383.8	394.1	398.4	401.1
135°	331.8	339.5	357.8	378.9	394.3	403.0	407.8	410.7
137.5°	350.3	352.4	363.9	383.4	398.8	408.4	413.2	415.1
140°	362.6	361.6	369.3	385.7	401.1	410.7	415.5	417.4
142.5°	376.4	373.2	377.0	388.8	402.6	412.2	417.8	419.0
145°	399.1	390.5	387.6	394.3	404.9	413.6	418.4	419.3
147.5°	424.5	411.3	403.0	404.1	410.1	416.3	419.9	420.7
150°	441.5	425.1	414.5	412.6	415.5	419.3	422.2	422.2
152.5°	456.9	441.3	426.8	423.4	422.4	424.7	426.8	426.1
155°	483.8	464.5	448.2	442.4	437.6	436.7	435.7	434.7
157.5°	510.7	489.7	471.3	462.6	457.4	454.4	452.2	449.7
160°	526.1	505.9	486.7	478.0	471.3	467.4	464.5	463.6
162.5°	540.7	522.8	504.4	492.6	486.7	481.3	479.9	476.7
165°	561.7	547.3	527.1	515.5	510.7	506.9	504.0	500.1
167.5°	582.5	569.0	552.1	540.9	535.5	531.7	528.4	526.3
170°	592.5	582.9	567.5	557.8	554.0	550.1	545.3	542.5
172.5°	602.5	594.4	582.1	573.2	571.7	567.1	565.3	561.7
175°	614.6	609.8	600.2	595.4	595.4	593.4	593.4	588.6
177.5°	623.1	621.5	615.4	612.3	614.6	614.6	613.8	611.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

(END OF REPORT)