

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: P709325

Luminaire Tested: DL2W-WB-M-025U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709325  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-050D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3041.9 lumens  
Efficiency: N/A  
Efficacy: 118.8 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-Direct

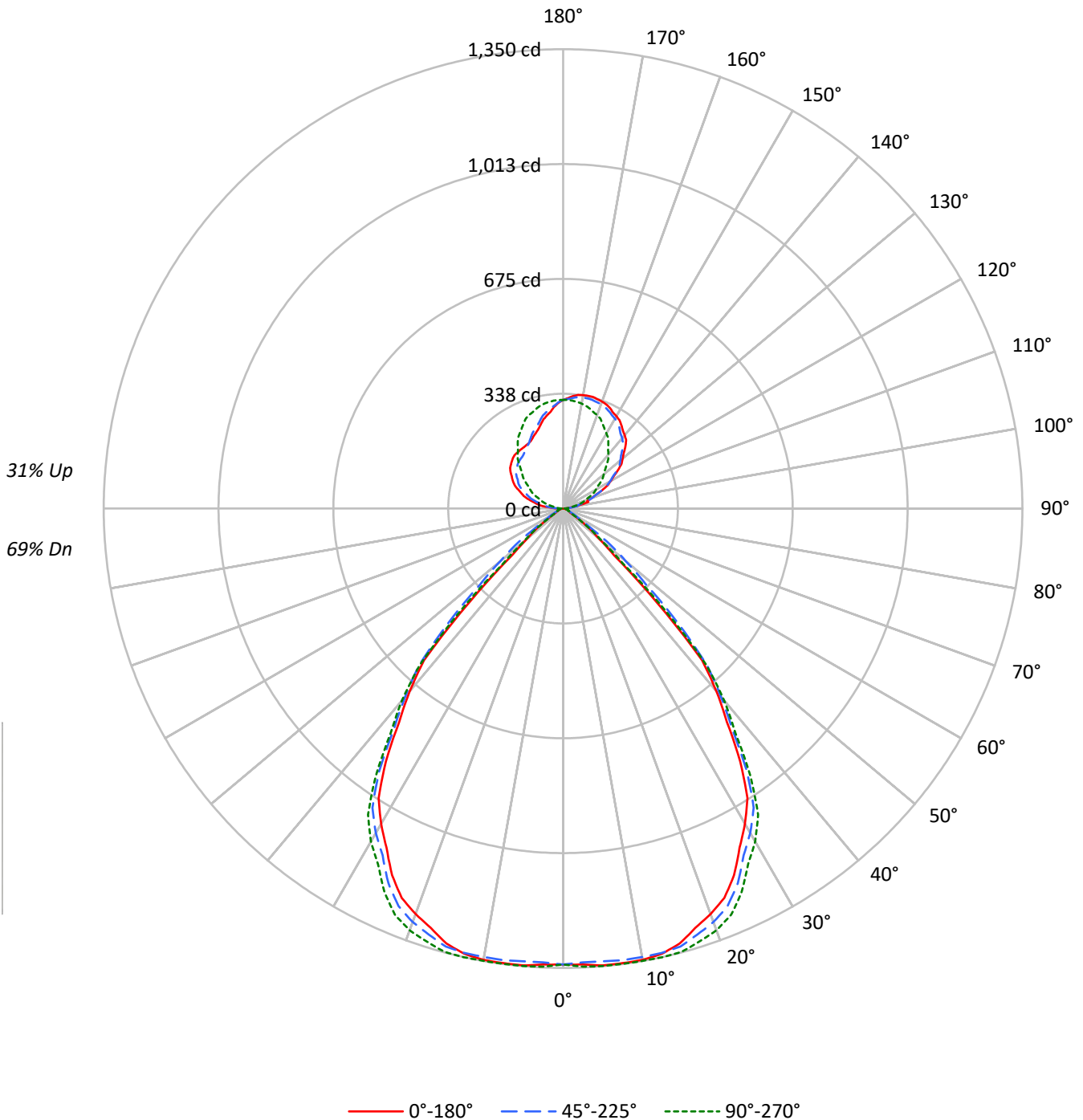
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	105	101	98	95	99	96	93	91	86	84	82	77	76	75	69	68	67	63				
2	97	91	86	82	92	87	83	79	79	75	73	71	69	67	64	62	61	57				
3	91	83	77	72	86	79	74	69	72	68	64	65	62	60	59	57	55	52				
4	84	75	69	63	80	72	66	61	66	61	57	60	57	54	55	52	50	47				
5	79	69	62	57	75	66	60	55	61	55	52	56	52	48	51	48	45	43				
6	73	63	56	51	70	60	54	49	56	50	47	51	47	44	47	44	41	39				
7	69	58	51	46	65	56	49	45	51	46	42	48	43	40	44	40	38	36				
8	64	53	46	41	61	51	45	40	48	42	38	44	40	37	41	37	35	33				
9	60	49	42	38	58	47	41	37	44	39	35	41	37	34	38	35	32	30				
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	36	32	29	28				

**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	4.2
10°-20°	376.4	12.4
20°-30°	557.4	18.3
30°-40°	577.4	19.0
40°-50°	347.0	11.4
50°-60°	82.9	2.7
60°-70°	22.6	0.7
70°-80°	12.6	0.4
80°-90°	5.4	0.2
90°-100°	25.5	0.8
100°-110°	74.1	2.4
110°-120°	120.9	4.0
120°-130°	153.3	5.0
130°-140°	164.1	5.4
140°-150°	153.2	5.0
150°-160°	126.1	4.1
160°-170°	84.6	2.8
170°-180°	30.0	1.0
0°-30°	1062.1	34.9
0°-40°	1639.5	53.9
0°-60°	2069.4	68.0
0°-90°	2110.0	69.4
90°-120°	220.5	7.2
90°-150°	691.1	22.7
90°-180°	932.0	30.6
0°-180°	3041.9	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	3
90°	7	6	1	9	15	3
95°	8	10	11	32	44	13
105°	77	57	47	85	105	71
115°	125	125	90	134	155	123
125°	197	192	134	167	188	176
135°	260	247	181	187	209	199
145°	299	289	232	199	214	187
155°	326	317	275	226	221	150
165°	340	331	304	265	255	96
175°	332	326	318	303	300	32
180°	319	319	319	319	319	

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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°	2.1	2.1	2.1	2.4	2.7	2.7	2.7	2.3	2.1	1.7	1.9
90°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	3.8	2.9	1.0	1.9
92.5°	8.3	8.3	8.3	8.3	7.5	6.5	5.8	5.4	6.0	3.3	6.5
95°	7.7	7.7	7.7	7.7	8.7	11.5	15.4	16.4	11.5	10.6	14.4
97.5°	17.5	18.7	19.8	23.5	29.4	30.6	29.0	20.4	20.2	19.2	26.0
100°	33.7	35.6	37.5	40.4	47.1	37.5	29.8	28.9	27.9	26.9	33.7
102.5°	56.0	57.1	59.8	59.6	46.4	41.4	39.8	38.1	35.6	34.6	42.1
105°	76.9	72.1	63.5	55.8	56.7	56.7	56.7	51.9	48.1	47.1	54.8
107.5°	73.9	72.9	73.9	75.6	76.6	76.4	74.1	67.9	61.2	59.8	67.5
110°	88.5	87.5	88.5	89.4	90.4	89.4	85.6	77.9	71.2	68.3	76.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	101.6	102.1	103.1	104.1	104.3	103.3	98.7	89.4	80.4	76.8	83.7
115°	125.0	125.0	125.0	126.0	126.0	124.1	117.3	106.8	95.2	90.4	95.2
117.5°	147.7	147.0	147.0	147.0	147.0	143.7	135.8	123.1	110.2	103.1	107.5
120°	161.6	161.6	161.6	161.6	161.6	156.8	148.1	134.7	120.2	111.6	114.5
122.5°	176.2	175.4	176.2	175.4	174.7	169.9	159.7	146.2	131.0	120.0	121.4
125°	197.2	197.2	195.2	195.2	194.3	189.5	177.9	163.5	147.2	133.7	132.7
127.5°	216.6	217.4	214.9	213.9	212.4	205.6	195.2	181.8	162.5	146.8	142.3
130°	228.9	228.9	227.9	227.0	223.1	216.4	206.8	193.3	174.1	156.8	150.0
132.5°	242.0	242.0	241.0	238.5	233.9	227.9	218.3	204.9	184.9	166.8	157.7
135°	259.7	258.7	256.8	254.9	250.1	243.3	234.7	221.2	201.0	180.8	170.2
137.5°	274.1	273.2	271.4	267.8	263.9	257.4	248.7	236.0	217.2	196.8	182.2
140°	281.8	280.8	279.9	277.0	273.2	267.4	258.7	245.3	227.9	206.8	191.4
142.5°	288.7	288.5	286.8	284.7	280.8	274.3	267.2	254.5	237.2	217.6	200.6
145°	299.1	299.1	298.2	296.2	292.4	285.7	279.9	268.3	251.0	231.8	214.5
147.5°	308.2	308.4	307.2	305.3	301.6	295.8	290.3	278.7	263.7	246.4	228.3
150°	313.5	314.5	312.6	310.7	307.8	302.0	297.2	285.7	272.2	254.9	237.6
152.5°	318.2	319.9	318.0	316.8	313.2	307.4	302.6	291.8	279.1	264.1	246.8
155°	326.0	327.0	325.1	324.1	319.3	314.5	310.7	300.1	288.5	275.1	260.6
157.5°	331.6	332.6	331.6	329.7	324.9	320.3	316.4	307.8	297.4	286.2	272.2
160°	334.7	335.7	334.7	332.8	328.0	324.1	320.3	311.6	302.0	292.4	279.9
162.5°	337.0	338.0	337.0	335.1	330.3	326.4	323.4	315.5	306.6	297.0	286.0
165°	339.5	340.5	339.5	336.6	332.8	328.9	326.0	319.3	311.6	303.9	296.2
167.5°	339.3	341.2	339.5	338.4	332.8	330.9	328.2	322.4	316.0	309.7	302.4
170°	338.6	340.5	339.5	337.6	332.8	330.9	328.9	323.2	318.4	313.5	307.8
172.5°	337.0	338.2	337.2	336.1	331.2	329.3	328.2	323.9	319.9	315.9	310.9
175°	331.8	333.7	332.8	331.8	327.0	326.0	327.0	323.2	320.3	318.4	315.5
177.5°	324.7	326.2	325.5	324.7	322.4	321.6	323.2	321.6	320.1	319.3	317.8
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

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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°	2.3	2.7	3.1	3.3	3.5	3.5	3.7	3.8
90°	3.8	5.8	7.7	9.6	12.5	13.5	14.4	15.4
92.5°	8.5	11.9	15.4	18.1	21.7	24.2	24.4	25.4
95°	20.2	25.0	29.8	34.6	39.4	43.3	44.2	44.2
97.5°	32.1	39.6	46.0	51.7	57.3	60.6	62.7	64.6
100°	41.4	48.1	56.7	62.5	67.3	72.1	75.0	76.9
102.5°	50.6	57.3	66.0	73.3	80.4	83.7	87.3	88.5
105°	64.4	72.1	80.8	89.4	95.2	100.0	102.9	104.8
107.5°	77.3	86.9	95.2	103.3	109.3	115.0	118.7	119.8
110°	86.6	96.2	106.8	112.5	119.3	125.0	127.9	129.8



TEST NUMBER: P709325

CATALOG NUMBER: DL2W-WB-M-025U-050D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	95.0	105.4	116.0	123.3	130.0	135.8	138.7	140.6
115°	106.8	117.3	127.9	139.5	146.2	150.0	152.9	154.8
117.5°	117.3	128.9	139.5	149.8	157.5	160.6	162.5	163.7
120°	125.0	136.6	147.2	156.8	164.5	168.3	170.2	172.2
122.5°	131.2	142.7	153.3	162.9	170.6	175.2	177.9	179.1
125°	140.4	151.0	162.5	171.2	178.9	184.7	187.6	188.5
127.5°	147.7	158.7	170.2	179.3	187.0	191.6	194.5	196.2
130°	153.9	162.5	174.1	184.7	192.4	196.2	199.1	200.1
132.5°	160.0	167.2	177.9	188.5	196.2	200.8	203.7	204.7
135°	168.3	172.2	181.8	192.4	200.1	204.9	207.7	208.7
137.5°	178.7	180.0	185.4	195.4	203.3	208.1	210.8	211.8
140°	185.6	184.7	188.5	196.2	204.9	209.7	211.6	212.6
142.5°	191.8	190.1	191.6	197.7	204.9	209.7	212.4	212.6
145°	203.9	199.1	197.2	201.0	205.8	210.6	213.5	213.5
147.5°	215.6	209.7	205.2	206.0	208.5	212.0	213.7	213.9
150°	224.1	217.4	210.6	210.6	211.6	213.5	214.5	215.4
152.5°	233.3	225.1	217.6	216.0	215.4	215.8	217.6	217.0
155°	246.2	236.6	227.9	225.1	223.1	222.2	222.2	221.2
157.5°	258.9	250.1	239.7	235.6	232.6	230.8	229.7	228.7
160°	267.4	257.8	248.1	243.3	239.5	238.5	236.6	235.6
162.5°	275.8	265.5	256.6	251.0	247.2	246.2	245.1	243.3
165°	286.6	278.9	268.3	262.6	260.6	257.8	256.8	254.9
167.5°	296.6	290.3	281.8	276.2	272.6	270.6	269.7	267.8
170°	302.0	297.2	289.5	284.7	281.8	279.9	278.9	277.0
172.5°	306.6	302.6	296.4	292.4	290.3	289.1	287.4	286.2
175°	312.6	310.7	304.9	302.0	303.0	302.0	302.0	300.1
177.5°	317.0	316.2	313.2	311.6	313.9	313.2	313.2	310.9
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

(END OF REPORT)