

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: P709243

Luminaire Tested: DL2W-BB-M-025U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709243
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-050D-940-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: 3150.7 lumens
Efficiency: N/A
Efficacy: 123.1 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-Direct

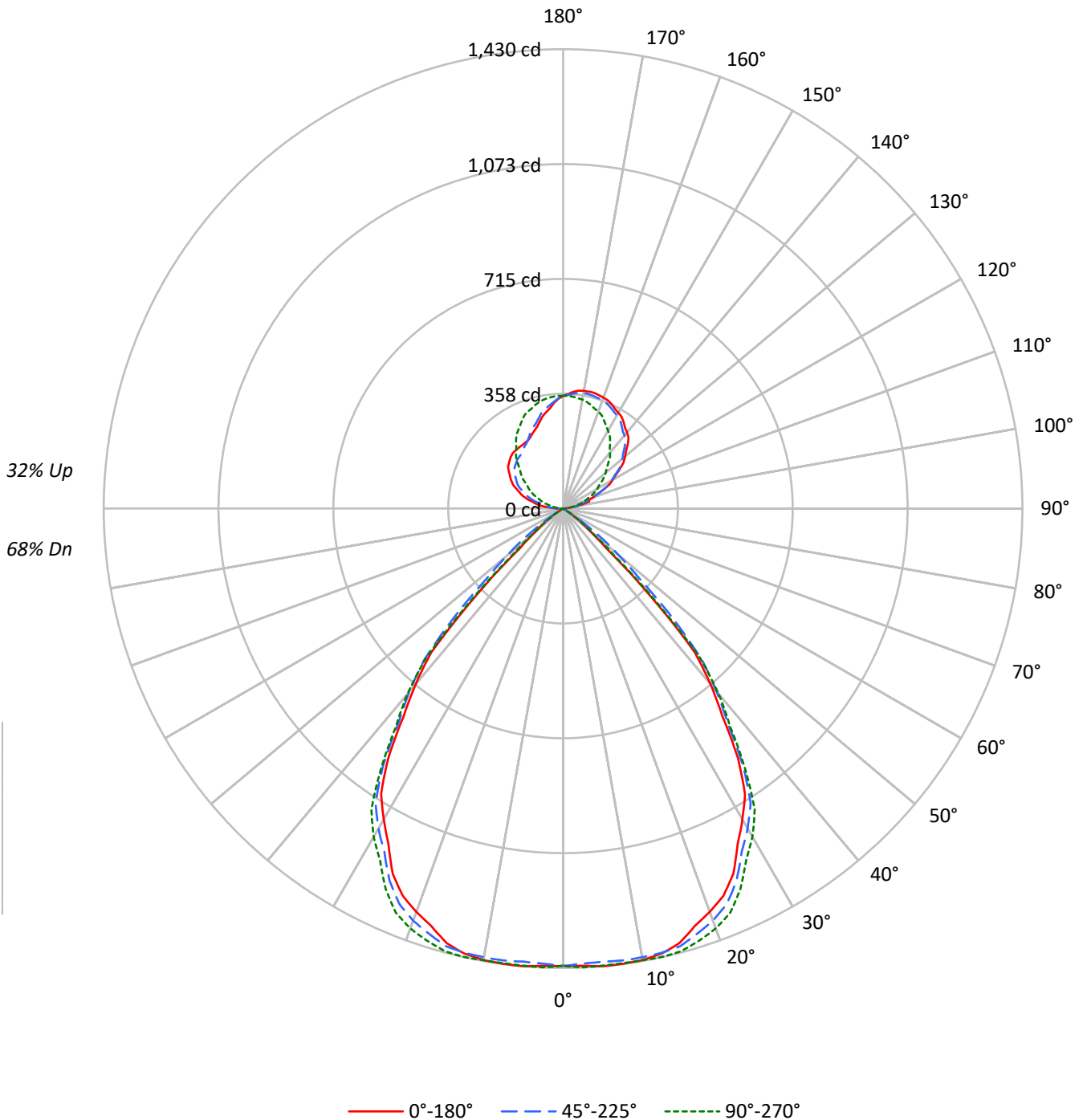
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68		
1	104	101	98	95	98	96	93	91	86	84	82	76	75	74	68	67	66	62		
2	97	91	87	83	92	87	83	79	78	75	72	71	68	66	63	62	60	57		
3	91	83	77	72	86	79	74	70	72	68	65	65	62	59	59	57	55	52		
4	85	76	69	64	80	72	66	62	66	61	58	60	57	54	55	52	50	47		
5	79	69	62	57	75	66	60	55	61	56	52	55	52	49	51	48	45	43		
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39		
7	69	58	51	46	66	56	50	45	52	46	43	48	43	40	44	40	38	36		
8	65	54	47	42	61	52	45	41	48	43	39	44	40	37	41	37	35	33		
9	61	50	43	38	58	48	42	37	44	39	36	41	37	34	38	35	32	30		
10	57	46	40	35	54	44	38	34	41	36	33	39	34	31	36	32	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22985	22985	22985	22985	22985
5°	23175	22943	23141	22943	23175
10°	23391	23252	23409	23252	23391
15°	23407	23574	23831	23574	23407
20°	22950	23447	23897	23447	22950
25°	22344	22761	23268	22761	22344
30°	20817	21423	21983	21423	20817
35°	18713	19258	19486	19258	18713
40°	15057	15673	15907	15673	15057
45°	8725	10997	9378	10997	8725
50°	2818	5672	3165	5672	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: 11042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.3
10°-20°	398.2	12.6
20°-30°	586.0	18.6
30°-40°	598.6	19.0
40°-50°	344.2	10.9
50°-60°	60.1	1.9
60°-70°	2.2	0.1
70°-80°	0.0	0.0
80°-90°	1.9	0.1
90°-100°	28.0	0.9
100°-110°	81.5	2.6
110°-120°	132.8	4.2
120°-130°	168.5	5.3
130°-140°	180.3	5.7
140°-150°	168.3	5.3
150°-160°	138.6	4.4
160°-170°	93.0	3.0
170°-180°	33.0	1.0
0°-30°	1120.2	35.6
0°-40°	1718.8	54.6
0°-60°	2123.1	67.4
0°-90°	2127.1	67.5
90°-120°	242.2	7.7
90°-150°	759.4	24.1
90°-180°	1024.0	32.5
0°-180°	3150.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1424	1424	1424	1424	1424	
5°	1430	1416	1428	1416	1430	136
15°	1400	1410	1426	1410	1400	393
25°	1254	1278	1306	1278	1254	571
35°	949	977	989	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	1
90°	7	7	1	10	17	3
95°	8	11	12	35	49	14
105°	84	62	52	94	115	78
115°	137	137	99	147	170	136
125°	217	211	147	183	207	193
135°	285	271	199	206	229	219
145°	329	318	255	219	235	206
155°	358	348	302	249	243	165
165°	373	364	334	292	280	105
175°	365	359	350	333	330	35
180°	351	351	351	351	351	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6
2.5°	1424.4	1425.9	1427.4	1423.6	1417.9	1417.6	1422.4	1426.5	1428.0	1429.5	1428.0
5°	1429.9	1430.9	1431.8	1425.3	1416.4	1414.8	1420.4	1425.0	1426.4	1427.8	1426.4
7.5°	1429.3	1431.2	1433.1	1427.7	1419.9	1417.8	1421.6	1424.7	1425.8	1427.0	1425.8
10°	1426.7	1428.6	1430.5	1425.7	1418.6	1417.9	1423.6	1427.8	1427.8	1427.8	1427.8
12.5°	1419.1	1421.8	1424.4	1420.9	1415.3	1417.3	1426.7	1433.3	1431.4	1429.5	1431.4
15°	1400.3	1403.6	1406.9	1407.3	1406.9	1413.7	1427.8	1437.0	1431.3	1425.7	1431.3
17.5°	1362.8	1367.8	1372.8	1377.4	1381.8	1393.6	1412.9	1425.5	1417.9	1410.2	1417.9
20°	1335.7	1340.0	1344.2	1350.5	1357.6	1371.7	1392.9	1406.8	1398.8	1390.8	1398.8
22.5°	1304.4	1309.0	1313.6	1319.2	1325.1	1339.3	1361.6	1376.4	1368.7	1361.1	1368.7
25°	1254.2	1257.0	1259.9	1265.2	1271.3	1284.0	1303.3	1316.4	1311.3	1306.1	1311.3
27.5°	1177.6	1182.3	1187.0	1192.9	1199.2	1210.7	1227.5	1239.4	1236.8	1234.1	1236.8
30°	1116.6	1123.2	1129.8	1136.7	1143.8	1154.4	1168.5	1179.1	1179.1	1179.1	1179.1
32.5°	1054.0	1060.2	1066.4	1074.1	1082.3	1091.0	1100.2	1107.5	1109.0	1110.5	1109.0
35°	949.4	954.6	959.8	966.3	973.4	980.7	988.2	993.3	990.9	988.6	990.9
37.5°	815.2	818.8	822.3	829.3	837.4	845.3	853.0	858.2	856.0	853.7	856.0
40°	714.4	719.1	723.8	731.4	739.8	747.4	753.9	758.4	756.5	754.7	756.5
42.5°	606.9	613.1	619.3	627.8	637.0	644.7	650.9	653.0	642.9	632.7	642.9
45°	382.1	417.4	452.7	469.2	479.6	483.6	481.2	471.8	441.2	410.7	441.2
47.5°	179.9	214.8	249.7	284.4	318.9	325.0	302.7	278.0	246.0	214.0	246.0
50°	112.2	124.9	137.6	175.7	222.3	229.3	196.9	167.3	146.6	126.0	146.6
52.5°	75.8	82.1	88.4	117.6	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°	1.5	1.5	1.5	1.5	1.5	1.3	1.3	0.8	0.6	0.2	0.4
90°	7.4	7.4	7.4	7.4	7.4	6.3	6.3	4.2	3.2	1.1	2.1
92.5°	9.1	9.1	9.1	9.1	8.2	7.2	6.3	5.9	6.6	3.6	7.2
95°	8.5	8.5	8.5	8.5	9.5	12.7	16.9	18.0	12.7	11.6	15.9
97.5°	19.2	20.5	21.8	25.8	32.3	33.6	31.9	22.4	22.2	21.1	28.5
100°	37.0	39.1	41.2	44.4	51.8	41.2	32.8	31.7	30.6	29.6	37.0
102.5°	61.5	62.8	65.7	65.5	50.9	45.4	43.8	41.8	39.1	38.0	46.3
105°	84.5	79.3	69.7	61.3	62.4	62.4	62.4	57.1	52.8	51.8	60.2
107.5°	81.2	80.1	81.2	83.1	84.1	83.9	81.4	74.6	67.2	65.7	74.2
110°	97.2	96.2	97.2	98.3	99.3	98.3	94.1	85.6	78.2	75.0	83.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	111.6	112.2	113.3	114.3	114.6	113.5	108.4	98.3	88.3	84.3	91.9
115°	137.4	137.4	137.4	138.4	138.4	136.3	128.9	117.3	104.6	99.3	104.6
117.5°	162.3	161.5	161.5	161.5	161.5	157.9	149.2	135.3	121.1	113.3	118.2
120°	177.5	177.5	177.5	177.5	177.5	172.3	162.7	148.0	132.1	122.6	125.8
122.5°	193.6	192.8	193.6	192.8	191.9	186.6	175.4	160.6	143.9	131.9	133.4
125°	216.6	216.6	214.5	214.5	213.5	208.2	195.5	179.7	161.7	146.9	145.8
127.5°	238.0	238.8	236.1	235.0	233.3	225.9	214.5	199.7	178.6	161.3	156.4
130°	251.5	251.5	250.5	249.4	245.2	237.8	227.2	212.4	191.3	172.3	164.9
132.5°	265.9	265.9	264.8	262.1	257.0	250.5	239.9	225.1	203.1	183.3	173.3
135°	285.3	284.3	282.2	280.1	274.8	267.4	257.9	243.1	220.9	198.7	187.1
137.5°	301.2	300.1	298.2	294.2	290.0	282.8	273.3	259.3	238.6	216.2	200.2
140°	309.6	308.6	307.5	304.4	300.1	293.8	284.3	269.5	250.5	227.2	210.3
142.5°	317.3	317.0	315.1	312.8	308.6	301.4	293.6	279.6	260.6	239.1	220.5
145°	328.7	328.7	327.6	325.5	321.3	313.9	307.5	294.9	275.8	254.7	235.7
147.5°	338.6	338.8	337.5	335.4	331.4	325.1	318.9	306.3	289.8	270.8	250.9
150°	344.5	345.6	343.5	341.4	338.2	331.8	326.6	313.9	299.1	280.1	261.0
152.5°	349.6	351.5	349.4	348.1	344.1	337.8	332.5	320.6	306.7	290.2	271.2
155°	358.3	359.3	357.2	356.1	350.9	345.6	341.4	329.7	317.0	302.2	286.4
157.5°	364.4	365.4	364.4	362.3	357.0	351.9	347.7	338.2	326.8	314.5	299.1
160°	367.8	368.8	367.8	365.7	360.4	356.1	351.9	342.4	331.8	321.3	307.5
162.5°	370.3	371.4	370.3	368.2	362.9	358.7	355.3	346.6	336.9	326.3	314.3
165°	373.1	374.1	373.1	369.9	365.7	361.4	358.3	350.9	342.4	334.0	325.5
167.5°	372.8	375.0	373.1	371.8	365.7	363.5	360.6	354.2	347.3	340.3	332.3
170°	372.0	374.1	373.1	370.9	365.7	363.5	361.4	355.1	349.8	344.5	338.2
172.5°	370.3	371.6	370.5	369.3	364.0	361.9	360.6	355.9	351.5	347.1	341.6
175°	364.6	366.7	365.7	364.6	359.3	358.3	359.3	355.1	351.9	349.8	346.6
177.5°	356.8	358.5	357.6	356.8	354.2	353.4	355.1	353.4	351.7	350.9	349.2
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6	1423.6
2.5°	1426.5	1422.4	1417.6	1417.9	1423.6	1427.4	1425.9	1424.4
5°	1425.0	1420.4	1414.8	1416.4	1425.3	1431.8	1430.9	1429.9
7.5°	1424.7	1421.6	1417.8	1419.9	1427.7	1433.1	1431.2	1429.3
10°	1427.8	1423.6	1417.9	1418.6	1425.7	1430.5	1428.6	1426.7
12.5°	1433.3	1426.7	1417.3	1415.3	1420.9	1424.4	1421.8	1419.1
15°	1437.0	1427.8	1413.7	1406.9	1407.3	1406.9	1403.6	1400.3
17.5°	1425.5	1412.9	1393.6	1381.8	1377.4	1372.8	1367.8	1362.8
20°	1406.8	1392.9	1371.7	1357.6	1350.5	1344.2	1340.0	1335.7
22.5°	1376.4	1361.6	1339.3	1325.1	1319.2	1313.6	1309.0	1304.4
25°	1316.4	1303.3	1284.0	1271.3	1265.2	1259.9	1257.0	1254.2
27.5°	1239.4	1227.5	1210.7	1199.2	1192.9	1187.0	1182.3	1177.6
30°	1179.1	1168.5	1154.4	1143.8	1136.7	1129.8	1123.2	1116.6
32.5°	1107.5	1100.2	1091.0	1082.3	1074.1	1066.4	1060.2	1054.0
35°	993.3	988.2	980.7	973.4	966.3	959.8	954.6	949.4
37.5°	858.2	853.0	845.3	837.4	829.3	822.3	818.8	815.2
40°	758.4	753.9	747.4	739.8	731.4	723.8	719.1	714.4
42.5°	653.0	650.9	644.7	637.0	627.8	619.3	613.1	606.9
45°	471.8	481.2	483.6	479.6	469.2	452.7	417.4	382.1
47.5°	278.0	302.7	325.0	318.9	284.4	249.7	214.8	179.9
50°	167.3	196.9	229.3	222.3	175.7	137.6	124.9	112.2
52.5°	99.1	125.2	156.9	154.3	117.6	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°	0.8	1.3	1.7	2.1	2.7	3.0	3.2	3.4
90°	4.2	6.3	8.5	10.6	13.7	14.8	15.9	16.9
92.5°	9.3	13.1	16.9	19.9	23.9	26.6	26.8	27.9
95°	22.2	27.5	32.8	38.0	43.3	47.6	48.6	48.6
97.5°	35.3	43.5	50.5	56.9	63.0	66.6	68.9	71.0
100°	45.4	52.8	62.4	68.7	74.0	79.3	82.4	84.5
102.5°	55.6	63.0	72.5	80.5	88.3	91.9	96.0	97.2
105°	70.8	79.3	88.8	98.3	104.6	109.9	113.1	115.2
107.5°	85.0	95.5	104.6	113.5	120.1	126.4	130.4	131.7
110°	95.1	105.7	117.3	123.6	131.0	137.4	140.6	142.7

TEST NUMBER: P709243

CATALOG NUMBER: DL2W-BB-M-025U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	104.4	115.8	127.5	135.5	142.9	149.2	152.4	154.5
115°	117.3	128.9	140.6	153.2	160.6	164.9	168.0	170.1
117.5°	128.9	141.6	153.2	164.7	173.1	176.5	178.6	179.9
120°	137.4	150.1	161.7	172.3	180.7	184.9	187.1	189.2
122.5°	144.1	156.8	168.5	179.0	187.5	192.6	195.5	196.8
125°	154.3	165.9	178.6	188.1	196.6	202.9	206.1	207.1
127.5°	162.3	174.4	187.1	197.0	205.4	210.5	213.7	215.6
130°	169.1	178.6	191.3	202.9	211.4	215.6	218.8	219.8
132.5°	175.9	183.7	195.5	207.1	215.6	220.7	223.8	224.9
135°	184.9	189.2	199.7	211.4	219.8	225.1	228.3	229.3
137.5°	196.4	197.8	203.8	214.7	223.4	228.7	231.7	232.7
140°	204.0	202.9	207.1	215.6	225.1	230.4	232.5	233.6
142.5°	210.7	208.8	210.5	217.3	225.1	230.4	233.3	233.6
145°	224.0	218.8	216.6	220.9	226.2	231.4	234.6	234.6
147.5°	236.9	230.4	225.5	226.4	229.1	232.9	234.8	235.0
150°	246.2	238.8	231.4	231.4	232.5	234.6	235.7	236.7
152.5°	256.4	247.3	239.1	237.4	236.7	237.1	239.1	238.4
155°	270.5	260.0	250.5	247.3	245.2	244.1	244.1	243.1
157.5°	284.5	274.8	263.4	258.9	255.5	253.6	252.4	251.3
160°	293.8	283.2	272.7	267.4	263.1	262.1	260.0	258.9
162.5°	303.1	291.7	282.0	275.8	271.6	270.5	269.3	267.4
165°	314.9	306.5	294.9	288.5	286.4	283.2	282.2	280.1
167.5°	325.9	318.9	309.6	303.5	299.5	297.4	296.3	294.2
170°	331.8	326.6	318.1	312.8	309.6	307.5	306.5	304.4
172.5°	336.9	332.5	325.7	321.3	318.9	317.7	315.8	314.5
175°	343.5	341.4	335.0	331.8	332.9	331.8	331.8	329.7
177.5°	348.3	347.5	344.1	342.4	344.9	344.1	344.1	341.6
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

(END OF REPORT)