

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: P709258

Luminaire Tested: DL2W-BB-M-050U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-050U-075D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5176.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

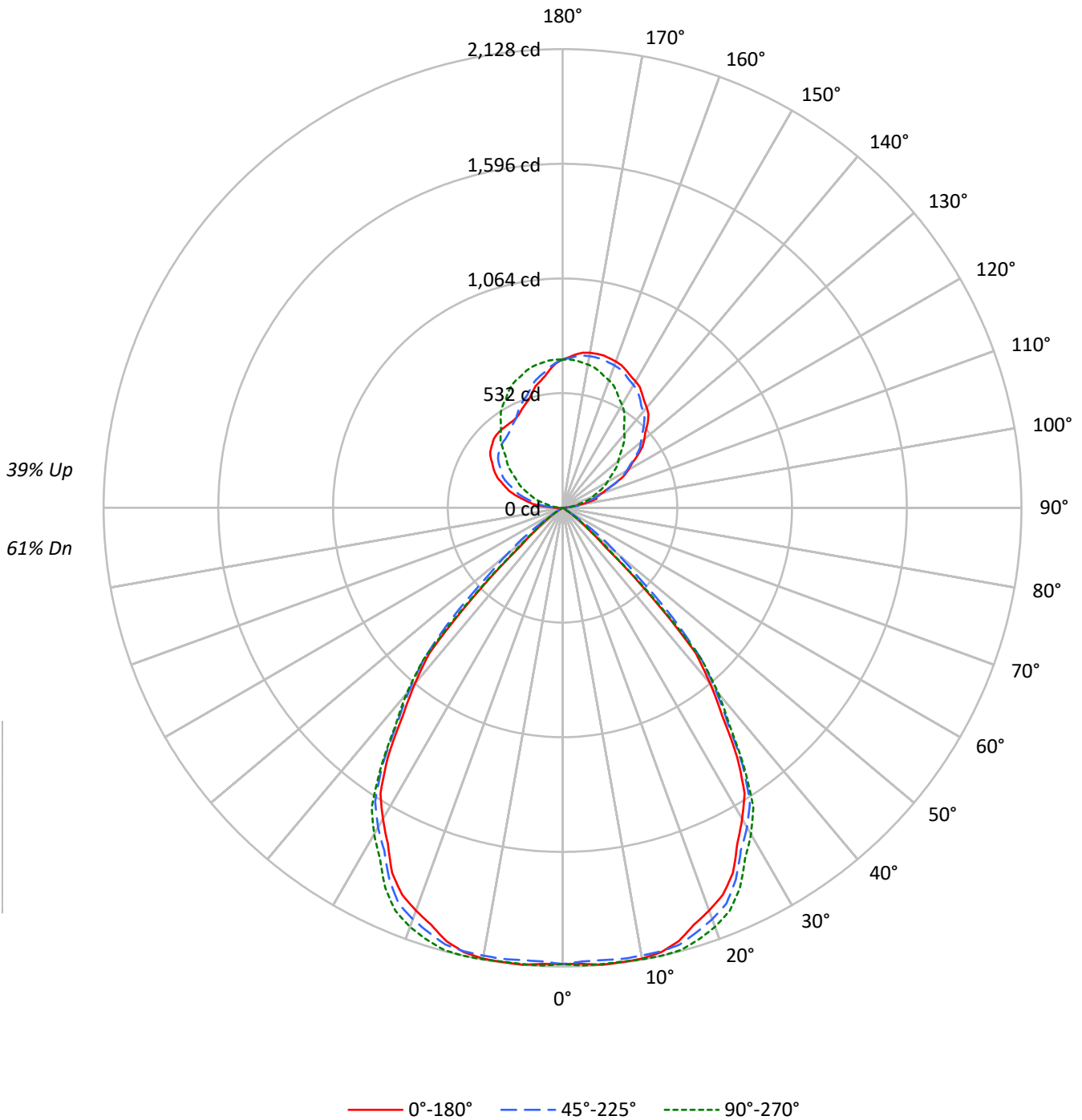
Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	61
1	103	99	96	93	96	93	91	88	82	80	78	72	71	69	62	62	61	56
2	96	90	85	81	90	85	80	77	75	72	69	66	64	62	58	57	55	51
3	89	81	75	70	84	77	72	67	69	65	61	61	58	56	54	52	50	47
4	83	74	67	62	78	70	64	60	63	58	55	56	53	50	50	48	46	43
5	77	67	60	55	73	64	58	53	58	53	49	52	48	45	46	44	41	39
6	72	61	54	49	68	59	52	48	53	48	44	48	44	41	43	40	38	35
7	67	56	49	45	63	54	48	43	49	44	40	44	40	37	40	37	35	32
8	63	52	45	40	59	50	43	39	45	40	37	41	37	34	37	34	32	30
9	59	48	41	37	56	46	40	36	42	37	34	38	34	31	35	32	29	27
10	55	44	38	34	52	43	37	33	39	34	31	36	32	29	33	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34161	34161	34161	34161	34161
5°	34480	34135	34428	34135	34480
10°	34810	34579	34861	34579	34810
15°	34781	35057	35490	35057	34781
20°	34153	34891	35534	34891	34153
25°	33298	33867	34657	33867	33298
30°	31058	31895	32578	31895	31058
35°	27829	28676	28915	28676	27829
40°	22443	23309	23714	23309	22443
45°	13269	16493	14139	16493	13269
50°	4175	8434	4413	8434	4175
55°	1669	2966	1669	2966	1669
60°	36	806	103	806	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: 16552 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	3.9
10°-20°	592.6	11.4
20°-30°	871.8	16.8
30°-40°	891.0	17.2
40°-50°	513.3	9.9
50°-60°	88.3	1.7
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	3.7	0.1
90°-100°	54.9	1.1
100°-110°	159.9	3.1
110°-120°	260.7	5.0
120°-130°	331.0	6.4
130°-140°	354.0	6.8
140°-150°	330.6	6.4
150°-160°	272.2	5.3
160°-170°	182.5	3.5
170°-180°	64.8	1.3
0°-30°	1666.7	32.2
0°-40°	2557.7	49.4
0°-60°	3159.4	61.0
0°-90°	3166.3	61.2
90°-120°	475.5	9.2
90°-150°	1491.1	28.8
90°-180°	2011.0	38.9
0°-180°	5176.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2116	2116	2116	2116	2116	
5°	2127	2106	2124	2106	2127	203
15°	2081	2097	2123	2097	2081	584
25°	1869	1901	1945	1901	1869	851
35°	1412	1455	1467	1455	1412	866
45°	581	722	619	722	581	450
55°	59	105	59	105	59	61
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	15	14	2	20	32	7
95°	16	21	21	71	96	27
105°	164	123	100	182	225	153
115°	267	269	193	289	333	267
125°	425	412	288	360	407	379
135°	559	532	392	405	451	429
145°	644	624	500	430	461	403
155°	702	684	594	489	478	324
165°	732	713	656	573	550	207
175°	714	705	687	657	647	69
180°	688	688	688	688	688	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2117.5	2119.3	2121.2	2115.2	2106.5	2106.0	2113.5	2119.8	2122.4	2125.1	2122.4
5°	2127.4	2128.3	2129.3	2120.0	2107.3	2104.9	2112.9	2119.5	2121.9	2124.2	2121.9
7.5°	2124.9	2127.2	2129.6	2122.3	2111.9	2109.5	2115.1	2119.8	2121.4	2123.0	2121.4
10°	2123.2	2125.5	2127.9	2120.3	2109.5	2108.8	2118.2	2125.4	2125.9	2126.3	2125.9
12.5°	2111.3	2115.5	2119.8	2114.4	2105.9	2108.9	2123.6	2133.9	2131.0	2128.0	2131.0
15°	2080.8	2086.9	2093.1	2093.5	2092.1	2102.5	2124.6	2139.2	2131.2	2123.2	2131.2
17.5°	2027.5	2036.1	2044.8	2050.8	2056.0	2073.3	2102.8	2122.0	2110.7	2099.5	2110.7
20°	1987.7	1995.2	2002.7	2011.3	2020.3	2041.0	2073.4	2094.5	2081.3	2068.1	2081.3
22.5°	1942.8	1948.8	1954.9	1964.8	1976.0	1997.0	2028.0	2048.2	2036.1	2024.1	2036.1
25°	1869.1	1872.4	1875.7	1882.9	1891.4	1910.7	1940.8	1961.3	1953.3	1945.4	1953.3
27.5°	1754.8	1759.1	1763.3	1772.3	1782.8	1799.4	1821.9	1838.3	1836.1	1833.8	1836.1
30°	1665.9	1673.9	1681.9	1692.4	1703.7	1717.8	1734.7	1747.4	1747.4	1747.4	1747.4
32.5°	1571.1	1579.1	1587.1	1598.4	1610.8	1623.1	1635.1	1644.4	1645.5	1646.7	1645.5
35°	1411.9	1419.0	1426.0	1437.0	1449.2	1460.5	1470.8	1477.3	1472.1	1467.0	1472.1
37.5°	1216.3	1222.2	1228.2	1239.5	1252.7	1263.2	1271.0	1276.4	1274.4	1272.4	1274.4
40°	1064.8	1073.7	1082.6	1091.9	1101.3	1110.5	1119.4	1126.0	1125.6	1125.1	1125.6
42.5°	913.2	916.9	920.5	932.7	947.8	959.6	968.2	972.2	962.7	953.2	962.7
45°	581.1	629.5	678.0	702.8	719.7	724.9	718.3	702.9	661.0	619.2	661.0
47.5°	273.7	325.0	376.3	425.3	473.5	482.3	451.5	415.4	363.3	311.2	363.3
50°	166.2	183.6	201.0	259.3	331.3	340.2	286.1	237.8	206.7	175.7	206.7
52.5°	112.0	121.9	131.7	174.4	227.9	231.0	183.7	144.7	131.0	117.3	131.0
55°	59.3	62.1	64.9	82.6	105.1	105.6	84.0	66.8	63.0	59.3	63.0
57.5°	22.2	26.8	31.4	38.6	46.6	46.4	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
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°	3.0	3.0	3.0	3.0	2.7	2.7	2.3	1.7	1.1	0.4	1.1
90°	14.8	14.8	14.8	14.8	13.7	13.7	11.6	8.5	5.3	2.1	5.3
92.5°	18.2	18.2	17.3	17.3	16.3	14.6	12.5	11.8	12.9	7.2	13.7
95°	15.9	15.9	15.9	15.9	18.0	24.3	33.8	35.9	24.3	21.1	29.6
97.5°	37.4	39.9	43.5	52.4	61.7	66.6	62.6	45.4	44.0	42.1	56.2
100°	77.1	77.1	82.4	88.8	101.5	83.5	63.4	62.4	59.2	58.1	74.0
102.5°	122.0	124.5	127.2	128.5	99.8	90.3	87.1	81.0	76.1	75.0	91.7
105°	163.8	156.4	134.2	121.5	121.5	123.6	121.5	114.1	103.6	100.4	118.4
107.5°	160.2	157.0	159.8	161.1	166.1	164.7	160.2	146.7	131.9	129.1	145.0
110°	188.1	189.2	190.2	192.3	196.6	193.4	188.1	171.2	152.2	146.9	162.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	221.1	220.5	223.2	224.5	224.5	223.0	214.3	193.2	172.5	166.3	180.5
115°	267.4	269.5	270.5	271.6	270.5	268.4	252.6	229.3	204.0	193.4	206.1
117.5°	320.6	315.8	317.3	318.1	318.7	311.1	293.8	266.3	236.9	221.3	231.0
120°	351.9	348.8	347.7	347.7	346.6	338.2	319.2	291.7	258.9	239.9	246.2
122.5°	379.8	379.2	379.0	378.1	377.9	366.1	345.4	316.2	282.6	259.3	261.5
125°	424.8	425.9	422.7	418.5	417.4	406.9	384.7	354.0	318.1	288.5	285.3
127.5°	467.5	469.7	466.3	463.9	458.2	443.7	422.5	391.9	351.7	318.5	308.2
130°	494.6	496.7	492.5	489.3	481.9	468.2	447.0	416.4	376.2	337.1	323.4
132.5°	521.6	522.1	517.8	513.8	505.6	491.8	470.7	440.9	398.2	359.1	341.1
135°	559.1	560.1	554.8	549.5	536.9	526.3	506.2	476.6	433.3	392.1	367.8
137.5°	589.9	590.1	585.5	577.7	569.2	555.7	537.1	509.2	469.2	424.8	394.0
140°	607.7	608.7	602.4	597.1	588.6	576.0	559.1	529.5	490.4	446.0	414.3
142.5°	622.9	623.9	619.3	614.0	605.6	592.9	577.7	549.8	511.5	468.0	433.7
145°	643.6	646.8	642.5	637.3	629.9	618.2	602.4	577.0	542.1	499.9	461.8
147.5°	665.6	665.8	662.6	659.5	651.0	638.5	627.1	601.8	568.6	531.4	491.6
150°	677.4	678.5	675.3	672.1	663.7	652.1	641.5	616.1	585.5	551.7	513.6
152.5°	687.6	689.5	687.1	683.1	675.5	663.1	653.3	629.7	601.5	569.4	533.1
155°	701.7	704.9	702.8	698.6	690.1	678.5	669.0	648.9	622.5	593.9	561.2
157.5°	715.3	718.2	715.9	710.8	702.2	691.8	682.7	663.7	641.3	616.3	586.3
160°	722.9	725.0	721.8	717.6	708.1	698.6	691.2	672.1	653.1	629.9	602.4
162.5°	727.1	730.1	726.9	721.8	712.3	703.6	697.1	679.7	661.6	640.9	616.8
165°	732.4	733.4	731.3	727.1	716.5	709.1	703.8	690.1	673.2	656.3	637.3
167.5°	732.0	736.2	733.0	729.0	717.6	712.3	707.4	695.2	682.7	668.5	654.4
170°	730.3	734.5	731.3	728.2	717.6	712.3	709.1	698.6	686.9	675.3	663.7
172.5°	726.0	729.4	727.1	723.9	714.2	709.8	708.3	699.4	689.5	680.4	670.4
175°	714.4	718.6	717.6	714.4	706.0	703.8	704.9	698.6	692.2	686.9	679.5
177.5°	699.8	704.1	702.4	700.7	694.8	693.9	697.3	693.9	690.5	688.8	685.5
180°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8	2115.8
2.5°	2119.8	2113.5	2106.0	2106.5	2115.2	2121.2	2119.3	2117.5
5°	2119.5	2112.9	2104.9	2107.3	2120.0	2129.3	2128.3	2127.4
7.5°	2119.8	2115.1	2109.5	2111.9	2122.3	2129.6	2127.2	2124.9
10°	2125.4	2118.2	2108.8	2109.5	2120.3	2127.9	2125.5	2123.2
12.5°	2133.9	2123.6	2108.9	2105.9	2114.4	2119.8	2115.5	2111.3
15°	2139.2	2124.6	2102.5	2092.1	2093.5	2093.1	2086.9	2080.8
17.5°	2122.0	2102.8	2073.3	2056.0	2050.8	2044.8	2036.1	2027.5
20°	2094.5	2073.4	2041.0	2020.3	2011.3	2002.7	1995.2	1987.7
22.5°	2048.2	2028.0	1997.0	1976.0	1964.8	1954.9	1948.8	1942.8
25°	1961.3	1940.8	1910.7	1891.4	1882.9	1875.7	1872.4	1869.1
27.5°	1838.3	1821.9	1799.4	1782.8	1772.3	1763.3	1759.1	1754.8
30°	1747.4	1734.7	1717.8	1703.7	1692.4	1681.9	1673.9	1665.9
32.5°	1644.4	1635.1	1623.1	1610.8	1598.4	1587.1	1579.1	1571.1
35°	1477.3	1470.8	1460.5	1449.2	1437.0	1426.0	1419.0	1411.9
37.5°	1276.4	1271.0	1263.2	1252.7	1239.5	1228.2	1222.2	1216.3
40°	1126.0	1119.4	1110.5	1101.3	1091.9	1082.6	1073.7	1064.8
42.5°	972.2	968.2	959.6	947.8	932.7	920.5	916.9	913.2
45°	702.9	718.3	724.9	719.7	702.8	678.0	629.5	581.1
47.5°	415.4	451.5	482.3	473.5	425.3	376.3	325.0	273.7
50°	237.8	286.1	340.2	331.3	259.3	201.0	183.6	166.2
52.5°	144.7	183.7	231.0	227.9	174.4	131.7	121.9	112.0
55°	66.8	84.0	105.6	105.1	82.6	64.9	62.1	59.3
57.5°	30.3	37.9	46.4	46.6	38.6	31.4	26.8	22.2
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	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°	1.5	2.3	3.4	4.4	5.3	5.7	6.1	6.3
90°	7.4	11.6	16.9	22.2	26.4	28.5	30.6	31.7
92.5°	19.2	26.0	33.8	39.9	46.7	51.4	53.5	53.7
95°	44.4	53.9	65.5	76.1	84.5	90.9	95.1	96.2
97.5°	68.3	86.0	98.9	111.2	123.4	131.0	135.9	136.5
100°	87.7	104.6	122.6	133.2	148.0	156.4	159.6	162.8
102.5°	108.9	123.2	142.9	158.5	172.5	180.1	186.6	189.8
105°	138.4	156.4	173.3	191.3	207.1	215.6	221.9	225.1
107.5°	166.6	188.5	205.4	223.0	236.9	247.3	254.9	258.1
110°	186.0	207.1	228.3	244.1	258.9	268.4	276.9	280.1

TEST NUMBER: P709258

CATALOG NUMBER: DL2W-BB-M-050U-075D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	204.6	226.6	249.4	267.0	280.9	293.0	298.9	304.6
115°	230.4	254.7	277.9	300.1	314.9	323.4	328.7	332.9
117.5°	253.2	277.7	301.6	323.8	339.0	346.0	349.2	353.2
120°	268.4	293.8	316.0	338.2	355.1	364.6	367.8	370.9
122.5°	282.8	307.3	330.4	351.7	368.6	379.0	383.8	386.2
125°	302.3	326.6	349.8	370.9	385.7	398.4	404.8	406.9
127.5°	318.3	342.6	367.1	387.4	403.1	413.6	420.0	422.9
130°	331.8	351.9	377.3	398.4	413.2	423.8	430.1	432.2
132.5°	343.7	360.4	384.0	406.0	421.7	433.1	437.7	440.7
135°	364.6	373.1	393.1	416.4	433.3	442.8	448.1	451.3
137.5°	384.9	387.2	399.9	421.2	438.2	448.7	454.0	456.1
140°	398.4	397.4	405.8	423.8	440.7	451.3	456.5	458.7
142.5°	413.6	410.0	414.3	427.2	442.4	453.0	459.1	460.4
145°	438.6	429.1	425.9	433.3	444.9	454.4	459.7	460.8
147.5°	466.5	451.9	442.8	444.1	450.6	457.4	461.4	462.3
150°	485.1	467.1	455.5	453.4	456.5	460.8	463.9	463.9
152.5°	502.0	484.9	469.0	465.2	464.2	466.7	469.0	468.2
155°	531.6	510.4	492.5	486.1	480.9	479.8	478.7	477.7
157.5°	561.2	538.1	517.8	508.3	502.6	499.2	496.9	494.2
160°	578.1	555.9	534.8	525.2	517.8	513.6	510.4	509.4
162.5°	594.1	574.5	554.2	541.3	534.8	528.8	527.4	523.8
165°	617.2	601.3	579.1	566.5	561.2	556.9	553.8	549.5
167.5°	640.0	625.2	606.6	594.4	588.4	584.2	580.6	578.3
170°	651.0	640.4	623.5	613.0	608.7	604.5	599.2	596.0
172.5°	662.0	653.1	639.6	629.9	628.2	623.1	621.2	617.2
175°	675.3	670.0	659.5	654.2	654.2	652.1	652.1	646.8
177.5°	684.6	682.9	676.2	672.8	675.3	675.3	674.5	671.9
180°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0

(END OF REPORT)