

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: P709259

Luminaire Tested: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

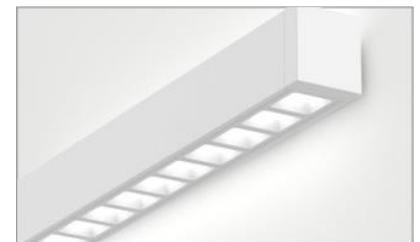
Test Information

Test Method: LM-79-2019
Report Number: P709259
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.6 lumens
Efficiency: N/A
Efficacy: 107.0 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

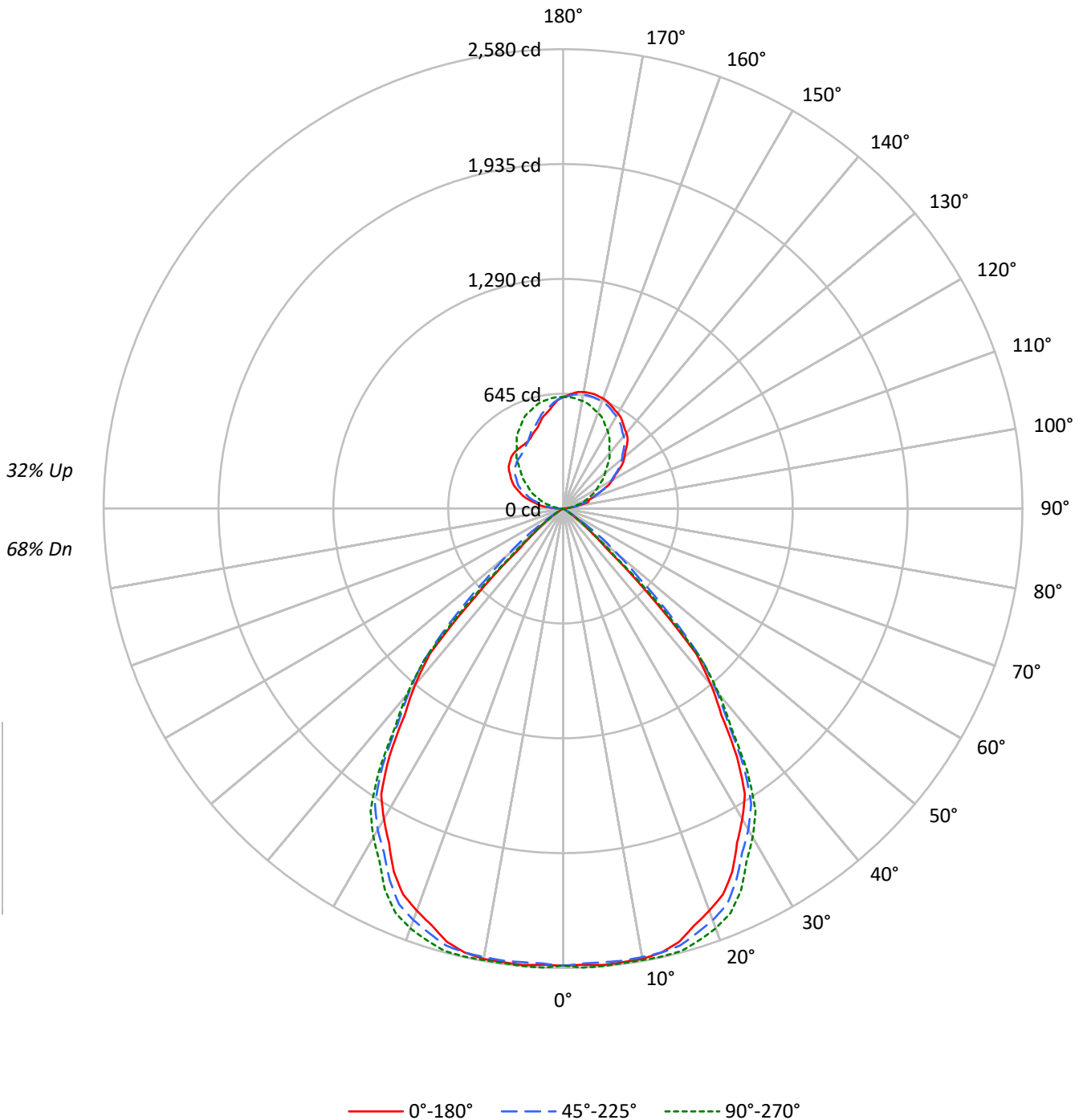
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	104	101	98	95	99	96	93	91	86	84	82	77	75	74	68	67	66	62
2	97	92	87	83	92	87	83	79	79	75	73	71	68	66	63	62	60	57
3	91	83	77	72	86	79	74	70	72	68	65	65	62	60	59	57	55	52
4	85	76	69	64	80	72	67	62	66	61	58	60	57	54	55	52	50	47
5	79	69	62	57	75	66	60	55	61	56	52	56	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	47	43	48	43	40	44	41	38	36
8	65	54	47	42	62	52	45	41	48	43	39	44	40	37	41	38	35	33
9	61	50	43	38	58	48	42	38	45	39	36	41	37	34	38	35	32	30
10	57	46	40	35	54	45	38	34	41	36	33	39	34	31	36	32	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	41445	41445	41445	41445	41445
5°	41697	41449	41806	41449	41697
10°	42101	41928	42210	41928	42101
15°	42103	42469	42987	42469	42103
20°	41278	42247	43096	42247	41278
25°	40075	41015	42131	41015	40075
30°	37528	38808	39716	38808	37528
35°	33553	34910	35581	34910	33553
40°	27265	28353	28865	28353	27265
45°	15767	19791	17568	19791	15767
50°	5122	10348	5604	10348	5122
55°	2004	3688	1948	3688	2004
60°	32	1019	155	1019	32
65°	0	65	0	65	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: 19870 cd/sqm

TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	4.3
10°-20°	717.4	12.6
20°-30°	1057.4	18.6
30°-40°	1082.8	19.1
40°-50°	623.9	11.0
50°-60°	109.1	1.9
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	3.4	0.1
90°-100°	50.0	0.9
100°-110°	145.5	2.6
110°-120°	237.3	4.2
120°-130°	301.2	5.3
130°-140°	322.2	5.7
140°-150°	300.8	5.3
150°-160°	247.7	4.4
160°-170°	166.1	2.9
170°-180°	59.0	1.0
0°-30°	2020.1	35.6
0°-40°	3102.9	54.7
0°-60°	3836.0	67.6
0°-90°	3843.5	67.8
90°-120°	432.8	7.6
90°-150°	1357.0	23.9
90°-180°	1830.0	32.3
0°-180°	5672.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2567	2567	2567	2567	2567	
5°	2573	2557	2579	2557	2573	245
15°	2519	2541	2572	2541	2519	707
25°	2250	2302	2365	2302	2250	1027
35°	1702	1771	1805	1771	1702	1045
45°	690	867	769	867	690	543
55°	71	131	69	131	71	73
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
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	

TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2564.6	2568.7	2572.8	2566.9	2557.7	2557.5	2566.4	2573.8	2576.9	2580.0	2576.9
5°	2572.7	2577.0	2581.2	2572.0	2558.4	2556.4	2566.3	2574.3	2576.8	2579.4	2576.8
7.5°	2569.4	2574.3	2579.2	2572.3	2561.5	2559.9	2567.5	2573.4	2574.0	2574.6	2574.0
10°	2567.9	2571.7	2575.6	2568.2	2557.1	2557.7	2570.1	2578.9	2576.7	2574.6	2576.7
12.5°	2554.0	2559.6	2565.1	2560.0	2551.3	2555.8	2573.7	2585.9	2581.0	2576.1	2581.0
15°	2518.8	2525.7	2532.5	2534.2	2534.2	2547.2	2573.3	2590.5	2581.1	2571.7	2581.1
17.5°	2454.0	2463.1	2472.3	2481.1	2489.7	2510.4	2543.2	2565.1	2554.0	2542.9	2554.0
20°	2402.4	2412.3	2422.1	2433.9	2446.3	2471.3	2508.9	2533.9	2521.1	2508.2	2521.1
22.5°	2346.3	2356.1	2365.9	2379.0	2393.1	2419.3	2457.6	2483.2	2470.7	2458.2	2470.7
25°	2249.5	2260.6	2271.8	2281.3	2290.2	2314.4	2353.7	2381.2	2373.1	2364.9	2373.1
27.5°	2116.8	2126.8	2136.8	2151.1	2166.8	2190.0	2220.5	2242.2	2237.4	2232.6	2237.4
30°	2012.9	2025.3	2037.7	2053.7	2070.8	2092.3	2118.4	2137.1	2133.7	2130.3	2133.7
32.5°	1900.6	1912.3	1924.0	1940.0	1957.5	1975.6	1994.5	2009.1	2010.4	2011.8	2010.4
35°	1702.3	1715.1	1727.9	1745.3	1764.1	1778.2	1787.6	1795.8	1800.5	1805.2	1800.5
37.5°	1461.3	1474.7	1488.1	1503.7	1519.9	1532.7	1542.1	1549.4	1550.3	1551.1	1550.3
40°	1293.6	1302.5	1311.5	1324.6	1339.2	1351.2	1360.6	1367.8	1368.7	1369.5	1368.7
42.5°	1107.4	1112.9	1118.5	1133.3	1151.3	1166.0	1177.4	1182.0	1165.7	1149.5	1165.7
45°	690.5	753.4	816.2	845.4	863.3	870.2	865.9	852.3	810.9	769.4	810.9
47.5°	327.8	393.8	459.9	520.1	578.3	588.4	550.2	507.8	452.4	397.0	452.4
50°	203.9	226.5	249.2	319.3	405.2	418.7	359.7	305.2	264.2	223.1	264.2
52.5°	137.0	148.3	159.7	212.6	279.4	285.5	230.9	185.1	165.2	145.4	165.2
55°	71.2	74.6	78.0	101.0	130.5	131.5	104.2	82.1	75.7	69.2	75.7
57.5°	24.0	30.8	37.6	47.3	58.1	58.0	46.9	37.1	31.0	24.8	31.0
60°	1.0	5.7	10.4	19.9	31.0	32.1	23.1	15.1	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.5	10.3	4.5	3.1	1.7	3.1
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.3	0.0	0.3
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°	2.7	2.7	2.7	2.7	2.5	2.5	2.1	1.5	1.0	0.4	1.0
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

TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

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

TEST NUMBER: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2573.8	2566.4	2557.5	2557.7	2566.9	2572.8	2568.7	2564.6
5°	2574.3	2566.3	2556.4	2558.4	2572.0	2581.2	2577.0	2572.7
7.5°	2573.4	2567.5	2559.9	2561.5	2572.3	2579.2	2574.3	2569.4
10°	2578.9	2570.1	2557.7	2557.1	2568.2	2575.6	2571.7	2567.9
12.5°	2585.9	2573.7	2555.8	2551.3	2560.0	2565.1	2559.6	2554.0
15°	2590.5	2573.3	2547.2	2534.2	2534.2	2532.5	2525.7	2518.8
17.5°	2565.1	2543.2	2510.4	2489.7	2481.1	2472.3	2463.1	2454.0
20°	2533.9	2508.9	2471.3	2446.3	2433.9	2422.1	2412.3	2402.4
22.5°	2483.2	2457.6	2419.3	2393.1	2379.0	2365.9	2356.1	2346.3
25°	2381.2	2353.7	2314.4	2290.2	2281.3	2271.8	2260.6	2249.5
27.5°	2242.2	2220.5	2190.0	2166.8	2151.1	2136.8	2126.8	2116.8
30°	2137.1	2118.4	2092.3	2070.8	2053.7	2037.7	2025.3	2012.9
32.5°	2009.1	1994.5	1975.6	1957.5	1940.0	1924.0	1912.3	1900.6
35°	1795.8	1787.6	1778.2	1764.1	1745.3	1727.9	1715.1	1702.3
37.5°	1549.4	1542.1	1532.7	1519.9	1503.7	1488.1	1474.7	1461.3
40°	1367.8	1360.6	1351.2	1339.2	1324.6	1311.5	1302.5	1293.6
42.5°	1182.0	1177.4	1166.0	1151.3	1133.3	1118.5	1112.9	1107.4
45°	852.3	865.9	870.2	863.3	845.4	816.2	753.4	690.5
47.5°	507.8	550.2	588.4	578.3	520.1	459.9	393.8	327.8
50°	305.2	359.7	418.7	405.2	319.3	249.2	226.5	203.9
52.5°	185.1	230.9	285.5	279.4	212.6	159.7	148.3	137.0
55°	82.1	104.2	131.5	130.5	101.0	78.0	74.6	71.2
57.5°	37.1	46.9	58.0	58.1	47.3	37.6	30.8	24.0
60°	15.1	23.1	32.1	31.0	19.9	10.4	5.7	1.0
62.5°	4.5	10.3	17.5	17.1	9.1	2.8	1.9	1.0
65°	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	0.3	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°	1.3	2.1	3.1	4.0	4.8	5.2	5.6	5.8
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: P709259

CATALOG NUMBER: DL2W-BB-M-050U-100D-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)