

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: P709262

Luminaire Tested: DL2W-BB-M-050U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709262
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-050U-125D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6623.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

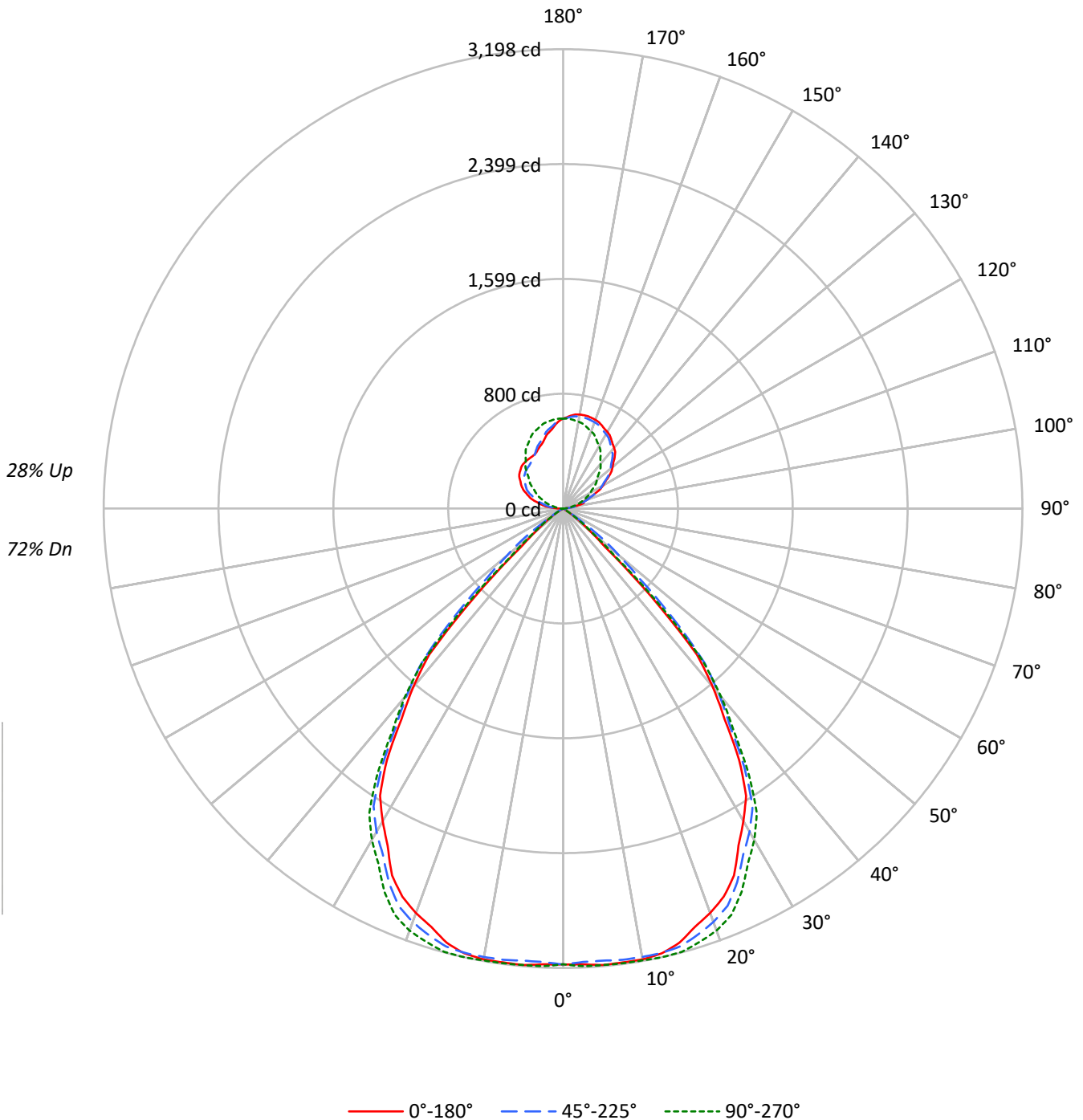
Input Watts (W): 64.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	106	102	99	97	100	97	95	92	88	86	85	80	79	77	72	71	70	67
2	99	93	88	84	94	89	85	81	81	78	75	74	71	69	67	66	64	61
3	92	85	79	74	88	81	76	72	74	70	67	68	65	62	63	60	58	55
4	86	77	71	66	82	74	68	64	68	64	60	63	59	56	58	55	53	50
5	80	70	64	59	77	68	62	57	63	58	54	58	54	51	54	51	48	46
6	75	65	58	53	72	62	56	51	58	53	49	54	50	46	50	47	44	42
7	70	60	53	48	67	57	51	47	54	48	44	50	46	42	47	43	40	38
8	66	55	48	43	63	53	47	42	50	44	41	46	42	39	43	40	37	35
9	62	51	44	40	59	49	43	39	46	41	37	43	39	36	41	37	34	32
10	58	47	41	36	56	46	40	36	43	38	34	40	36	33	38	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51236	51236	51236	51236	51236
5°	51695	51195	51695	51195	51695
10°	52246	51969	52357	51969	52246
15°	52306	52741	53412	52741	52306
20°	51460	52613	53716	52613	51460
25°	50195	51115	52417	51115	50195
30°	46812	48418	49635	48418	46812
35°	42139	43393	44388	43393	42139
40°	34170	35577	36149	35577	34170
45°	19877	24873	22066	24873	19877
50°	6332	12838	7201	12838	6332
55°	2536	4470	2455	4470	2536
60°	61	1229	187	1229	61
65°	0	65	38	65	0
70°	0	40	0	40	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: 60°
 Vertical Angle: 45°
 Luminance: 25071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	4.6
10°-20°	891.8	13.5
20°-30°	1317.9	19.9
30°-40°	1354.4	20.5
40°-50°	782.3	11.8
50°-60°	135.3	2.0
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	3.4	0.1
90°-100°	50.0	0.8
100°-110°	145.5	2.2
110°-120°	237.3	3.6
120°-130°	301.2	4.5
130°-140°	322.2	4.9
140°-150°	300.8	4.5
150°-160°	247.7	3.7
160°-170°	166.1	2.5
170°-180°	59.0	0.9
0°-30°	2513.4	37.9
0°-40°	3867.8	58.4
0°-60°	4785.4	72.3
0°-90°	4793.9	72.4
90°-120°	432.8	6.5
90°-150°	1357.0	20.5
90°-180°	1830.0	27.6
0°-180°	6623.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3173	3173	3173	3173	3173	
5°	3190	3159	3190	3159	3190	304
15°	3129	3155	3195	3155	3129	879
25°	2818	2869	2942	2869	2818	1282
35°	2138	2202	2252	2202	2138	1311
45°	870	1089	966	1089	870	677
55°	90	159	87	159	90	92
65°	0	2	1	2	0	1
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	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3
2.5°	3175.6	3178.7	3181.8	3172.8	3159.9	3159.0	3170.3	3179.7	3183.8	3187.9	3183.8
5°	3189.6	3192.6	3195.6	3181.0	3160.5	3156.9	3170.1	3181.1	3185.4	3189.6	3185.4
7.5°	3186.7	3191.5	3196.3	3185.4	3169.3	3166.9	3178.2	3187.4	3190.0	3192.7	3190.0
10°	3186.7	3190.1	3193.6	3183.9	3169.8	3169.8	3183.9	3194.3	3193.9	3193.5	3193.9
12.5°	3172.2	3178.0	3183.8	3176.7	3165.4	3170.3	3191.5	3206.4	3202.2	3198.1	3202.2
15°	3129.2	3139.4	3149.7	3150.3	3147.8	3162.7	3195.0	3216.7	3206.0	3195.4	3206.0
17.5°	3053.3	3066.1	3078.9	3089.4	3099.2	3124.9	3166.5	3193.8	3178.5	3163.2	3178.5
20°	2995.0	3007.8	3020.6	3033.7	3046.9	3077.3	3125.1	3157.0	3141.7	3126.3	3141.7
22.5°	2924.4	2936.2	2948.0	2961.8	2976.4	3009.3	3060.4	3094.6	3077.9	3061.2	3077.9
25°	2817.6	2822.3	2827.0	2839.1	2853.5	2884.9	2933.0	2966.1	2954.2	2942.3	2954.2
27.5°	2644.3	2655.3	2666.3	2683.3	2702.3	2730.4	2767.5	2794.3	2790.1	2785.8	2790.1
30°	2510.9	2526.6	2542.4	2562.6	2584.4	2609.7	2638.7	2660.6	2661.5	2662.3	2661.5
32.5°	2371.3	2387.4	2403.5	2422.8	2443.1	2468.0	2497.3	2518.2	2514.0	2509.7	2514.0
35°	2137.9	2150.3	2162.6	2176.9	2191.8	2211.2	2235.1	2252.9	2252.4	2252.0	2252.4
37.5°	1848.2	1855.2	1862.2	1879.1	1899.4	1917.8	1934.2	1947.1	1949.2	1951.4	1949.2
40°	1621.2	1628.8	1636.5	1655.7	1678.7	1697.2	1711.3	1721.1	1718.1	1715.1	1718.1
42.5°	1380.3	1389.7	1399.1	1421.8	1448.9	1467.6	1477.9	1480.7	1461.0	1441.3	1461.0
45°	870.5	945.9	1021.3	1058.4	1082.7	1095.9	1098.0	1084.8	1025.6	966.4	1025.6
47.5°	397.1	485.6	574.2	649.4	720.2	734.7	692.8	642.8	568.6	494.5	568.6
50°	252.1	277.3	302.4	391.5	501.8	520.4	447.1	380.4	333.5	286.7	333.5
52.5°	167.8	182.3	196.9	265.7	352.5	359.5	286.5	226.2	203.9	181.6	203.9
55°	90.1	94.4	98.6	125.0	158.6	159.0	126.2	100.0	93.6	87.2	93.6
57.5°	34.1	40.6	47.1	58.4	71.4	71.2	57.8	46.0	38.9	31.8	38.9
60°	1.9	7.0	12.1	23.6	37.3	38.8	28.1	18.5	12.1	5.8	12.1
62.5°	1.2	2.2	3.2	10.9	20.8	21.2	12.3	5.2	3.5	1.9	3.5
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1
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

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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°	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3	3173.3
2.5°	3179.7	3170.3	3159.0	3159.9	3172.8	3181.8	3178.7	3175.6
5°	3181.1	3170.1	3156.9	3160.5	3181.0	3195.6	3192.6	3189.6
7.5°	3187.4	3178.2	3166.9	3169.3	3185.4	3196.3	3191.5	3186.7
10°	3194.3	3183.9	3169.8	3169.8	3183.9	3193.6	3190.1	3186.7
12.5°	3206.4	3191.5	3170.3	3165.4	3176.7	3183.8	3178.0	3172.2
15°	3216.7	3195.0	3162.7	3147.8	3150.3	3149.7	3139.4	3129.2
17.5°	3193.8	3166.5	3124.9	3099.2	3089.4	3078.9	3066.1	3053.3
20°	3157.0	3125.1	3077.3	3046.9	3033.7	3020.6	3007.8	2995.0
22.5°	3094.6	3060.4	3009.3	2976.4	2961.8	2948.0	2936.2	2924.4
25°	2966.1	2933.0	2884.9	2853.5	2839.1	2827.0	2822.3	2817.6
27.5°	2794.3	2767.5	2730.4	2702.3	2683.3	2666.3	2655.3	2644.3
30°	2660.6	2638.7	2609.7	2584.4	2562.6	2542.4	2526.6	2510.9
32.5°	2518.2	2497.3	2468.0	2443.1	2422.8	2403.5	2387.4	2371.3
35°	2252.9	2235.1	2211.2	2191.8	2176.9	2162.6	2150.3	2137.9
37.5°	1947.1	1934.2	1917.8	1899.4	1879.1	1862.2	1855.2	1848.2
40°	1721.1	1711.3	1697.2	1678.7	1655.7	1636.5	1628.8	1621.2
42.5°	1480.7	1477.9	1467.6	1448.9	1421.8	1399.1	1389.7	1380.3
45°	1084.8	1098.0	1095.9	1082.7	1058.4	1021.3	945.9	870.5
47.5°	642.8	692.8	734.7	720.2	649.4	574.2	485.6	397.1
50°	380.4	447.1	520.4	501.8	391.5	302.4	277.3	252.1
52.5°	226.2	286.5	359.5	352.5	265.7	196.9	182.3	167.8
55°	100.0	126.2	159.0	158.6	125.0	98.6	94.4	90.1
57.5°	46.0	57.8	71.2	71.4	58.4	47.1	40.6	34.1
60°	18.5	28.1	38.8	37.3	23.6	12.1	7.0	1.9
62.5°	5.2	12.3	21.2	20.8	10.9	3.2	2.2	1.2
65°	1.0	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.1	0.1	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: P709262

CATALOG NUMBER: DL2W-BB-M-050U-125D-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)