

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: P709264

Luminaire Tested: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709264
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-940-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: 7282.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

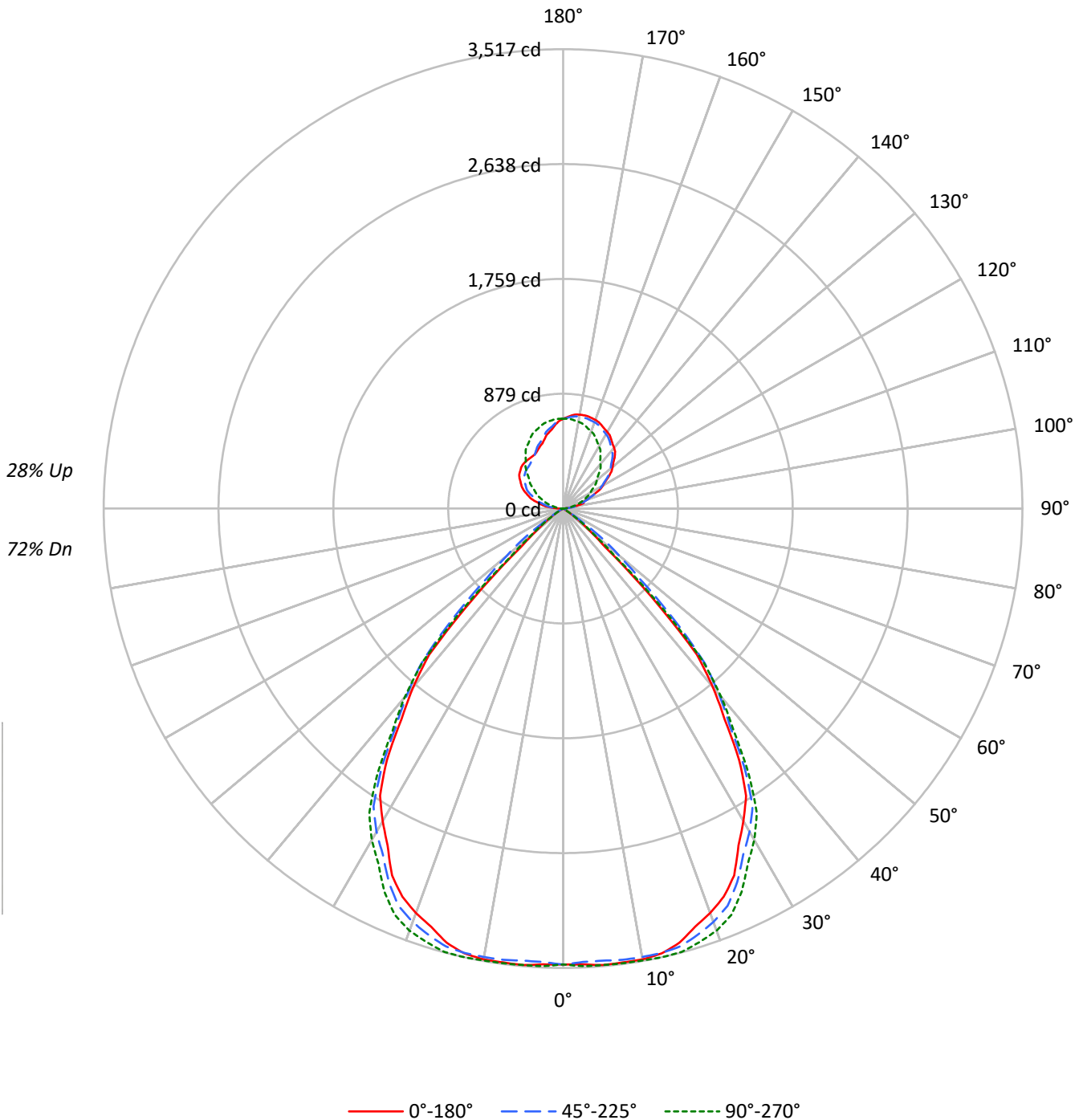
Input Watts (W): 64.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709264

CATALOG NUMBER: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709264

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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	71	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°	56349	56349	56349	56349	56349
5°	56854	56303	56854	56303	56854
10°	57459	57154	57581	57154	57459
15°	57526	58002	58741	58002	57526
20°	56594	57863	59077	57863	56594
25°	55205	56215	57647	56215	55205
30°	51482	53249	54588	53249	51482
35°	46343	47722	48817	47722	46343
40°	37578	39127	39757	39127	37578
45°	21861	27355	24268	27355	21861
50°	6965	14119	7920	14119	6965
55°	2790	4916	2700	4916	2790
60°	68	1350	203	1350	68
65°	0	73	42	73	0
70°	0	45	0	45	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: 27574 cd/sqm

TEST NUMBER: P709264

CATALOG NUMBER: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	4.6
10°-20°	980.7	13.5
20°-30°	1449.4	19.9
30°-40°	1489.6	20.5
40°-50°	860.3	11.8
50°-60°	148.8	2.0
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	3.7	0.1
90°-100°	54.9	0.8
100°-110°	159.9	2.2
110°-120°	260.7	3.6
120°-130°	331.0	4.5
130°-140°	354.0	4.9
140°-150°	330.6	4.5
150°-160°	272.2	3.7
160°-170°	182.5	2.5
170°-180°	64.8	0.9
0°-30°	2764.2	38.0
0°-40°	4253.7	58.4
0°-60°	5262.9	72.3
0°-90°	5272.3	72.4
90°-120°	475.5	6.5
90°-150°	1491.1	20.5
90°-180°	2011.0	27.6
0°-180°	7282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3490	3490	3490	3490	3490	
5°	3508	3474	3508	3474	3508	334
15°	3442	3470	3514	3470	3442	967
25°	3099	3156	3236	3156	3099	1410
35°	2351	2421	2477	2421	2351	1442
45°	957	1198	1063	1198	957	745
55°	99	175	96	175	99	101
65°	0	2	1	2	0	1
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	

TEST NUMBER: P709264

CATALOG NUMBER: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0
2.5°	3492.5	3495.9	3499.2	3489.4	3475.1	3474.2	3486.6	3497.0	3501.5	3506.0	3501.5
5°	3507.9	3511.2	3514.4	3498.4	3475.9	3471.9	3486.4	3498.5	3503.2	3507.9	3503.2
7.5°	3504.7	3510.0	3515.2	3503.2	3485.5	3482.9	3495.4	3505.4	3508.3	3511.3	3508.3
10°	3504.7	3508.5	3512.2	3501.6	3486.1	3486.1	3501.6	3513.0	3512.6	3512.1	3512.6
12.5°	3488.7	3495.1	3501.4	3493.7	3481.2	3486.7	3510.0	3526.3	3521.8	3517.2	3521.8
15°	3441.5	3452.7	3463.9	3464.7	3461.8	3478.2	3513.9	3537.6	3525.9	3514.2	3525.9
17.5°	3357.9	3372.0	3386.1	3397.7	3408.4	3436.7	3482.4	3512.5	3495.6	3478.8	3495.6
20°	3293.8	3307.9	3322.0	3336.4	3350.9	3384.4	3436.9	3472.0	3455.2	3438.3	3455.2
22.5°	3216.2	3229.2	3242.1	3257.4	3273.4	3309.5	3365.8	3403.3	3385.0	3366.6	3385.0
25°	3098.8	3103.9	3109.1	3122.3	3138.3	3172.7	3225.7	3262.1	3249.0	3235.9	3249.0
27.5°	2908.2	2920.2	2932.3	2951.0	2971.9	3002.8	3043.7	3073.2	3068.5	3063.8	3068.5
30°	2761.4	2778.7	2796.1	2818.3	2842.2	2870.1	2902.0	2926.1	2927.0	2928.0	2927.0
32.5°	2607.9	2625.6	2643.3	2664.5	2686.9	2714.2	2746.5	2769.5	2764.8	2760.1	2764.8
35°	2351.2	2364.8	2378.4	2394.1	2410.5	2431.8	2458.1	2477.6	2477.2	2476.7	2477.2
37.5°	2032.6	2040.3	2048.0	2066.6	2088.9	2109.1	2127.2	2141.4	2143.7	2146.1	2143.7
40°	1782.9	1791.4	1799.8	1820.9	1846.2	1866.6	1882.0	1892.8	1889.5	1886.3	1889.5
42.5°	1518.1	1528.4	1538.7	1563.6	1593.4	1614.0	1625.3	1628.4	1606.8	1585.1	1606.8
45°	957.4	1040.3	1123.3	1164.0	1190.7	1205.3	1207.6	1193.1	1127.9	1062.8	1127.9
47.5°	436.7	534.1	631.5	714.2	792.1	808.0	761.9	706.9	625.4	543.8	625.4
50°	277.3	304.9	332.6	430.5	551.9	572.3	491.7	418.3	366.8	315.3	366.8
52.5°	184.5	200.5	216.6	292.2	387.7	395.3	315.1	248.8	224.3	199.7	224.3
55°	99.1	103.8	108.5	137.4	174.4	174.9	138.8	110.0	103.0	95.9	103.0
57.5°	37.5	44.7	51.8	64.2	78.5	78.3	63.5	50.6	42.8	35.0	42.8
60°	2.1	7.7	13.4	26.0	41.0	42.6	30.9	20.4	13.4	6.3	13.4
62.5°	1.3	2.4	3.5	11.9	22.8	23.3	13.5	5.7	3.9	2.1	3.9
65°	0.0	0.5	0.9	1.4	1.9	1.9	1.4	1.1	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
70°	0.0	0.0	0.0	0.4	0.8	1.1	1.1	0.9	0.5	0.0	0.5
72.5°	0.0	0.0	0.0	0.1	0.2	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°	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

TEST NUMBER: P709264

CATALOG NUMBER: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

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

TEST NUMBER: P709264

CATALOG NUMBER: DL2W-BB-M-050U-125D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0	3490.0
2.5°	3497.0	3486.6	3474.2	3475.1	3489.4	3499.2	3495.9	3492.5
5°	3498.5	3486.4	3471.9	3475.9	3498.4	3514.4	3511.2	3507.9
7.5°	3505.4	3495.4	3482.9	3485.5	3503.2	3515.2	3510.0	3504.7
10°	3513.0	3501.6	3486.1	3486.1	3501.6	3512.2	3508.5	3504.7
12.5°	3526.3	3510.0	3486.7	3481.2	3493.7	3501.4	3495.1	3488.7
15°	3537.6	3513.9	3478.2	3461.8	3464.7	3463.9	3452.7	3441.5
17.5°	3512.5	3482.4	3436.7	3408.4	3397.7	3386.1	3372.0	3357.9
20°	3472.0	3436.9	3384.4	3350.9	3336.4	3322.0	3307.9	3293.8
22.5°	3403.3	3365.8	3309.5	3273.4	3257.4	3242.1	3229.2	3216.2
25°	3262.1	3225.7	3172.7	3138.3	3122.3	3109.1	3103.9	3098.8
27.5°	3073.2	3043.7	3002.8	2971.9	2951.0	2932.3	2920.2	2908.2
30°	2926.1	2902.0	2870.1	2842.2	2818.3	2796.1	2778.7	2761.4
32.5°	2769.5	2746.5	2714.2	2686.9	2664.5	2643.3	2625.6	2607.9
35°	2477.6	2458.1	2431.8	2410.5	2394.1	2378.4	2364.8	2351.2
37.5°	2141.4	2127.2	2109.1	2088.9	2066.6	2048.0	2040.3	2032.6
40°	1892.8	1882.0	1866.6	1846.2	1820.9	1799.8	1791.4	1782.9
42.5°	1628.4	1625.3	1614.0	1593.4	1563.6	1538.7	1528.4	1518.1
45°	1193.1	1207.6	1205.3	1190.7	1164.0	1123.3	1040.3	957.4
47.5°	706.9	761.9	808.0	792.1	714.2	631.5	534.1	436.7
50°	418.3	491.7	572.3	551.9	430.5	332.6	304.9	277.3
52.5°	248.8	315.1	395.3	387.7	292.2	216.6	200.5	184.5
55°	110.0	138.8	174.9	174.4	137.4	108.5	103.8	99.1
57.5°	50.6	63.5	78.3	78.5	64.2	51.8	44.7	37.5
60°	20.4	30.9	42.6	41.0	26.0	13.4	7.7	2.1
62.5°	5.7	13.5	23.3	22.8	11.9	3.5	2.4	1.3
65°	1.1	1.4	1.9	1.9	1.4	0.9	0.5	0.0
67.5°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
70°	0.9	1.1	1.1	0.8	0.4	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	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°	1.5	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: P709264

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