

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: P709345

Luminaire Tested: DL2W-WB-M-050U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709345
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-050U-100D-940-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: 6624.9 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

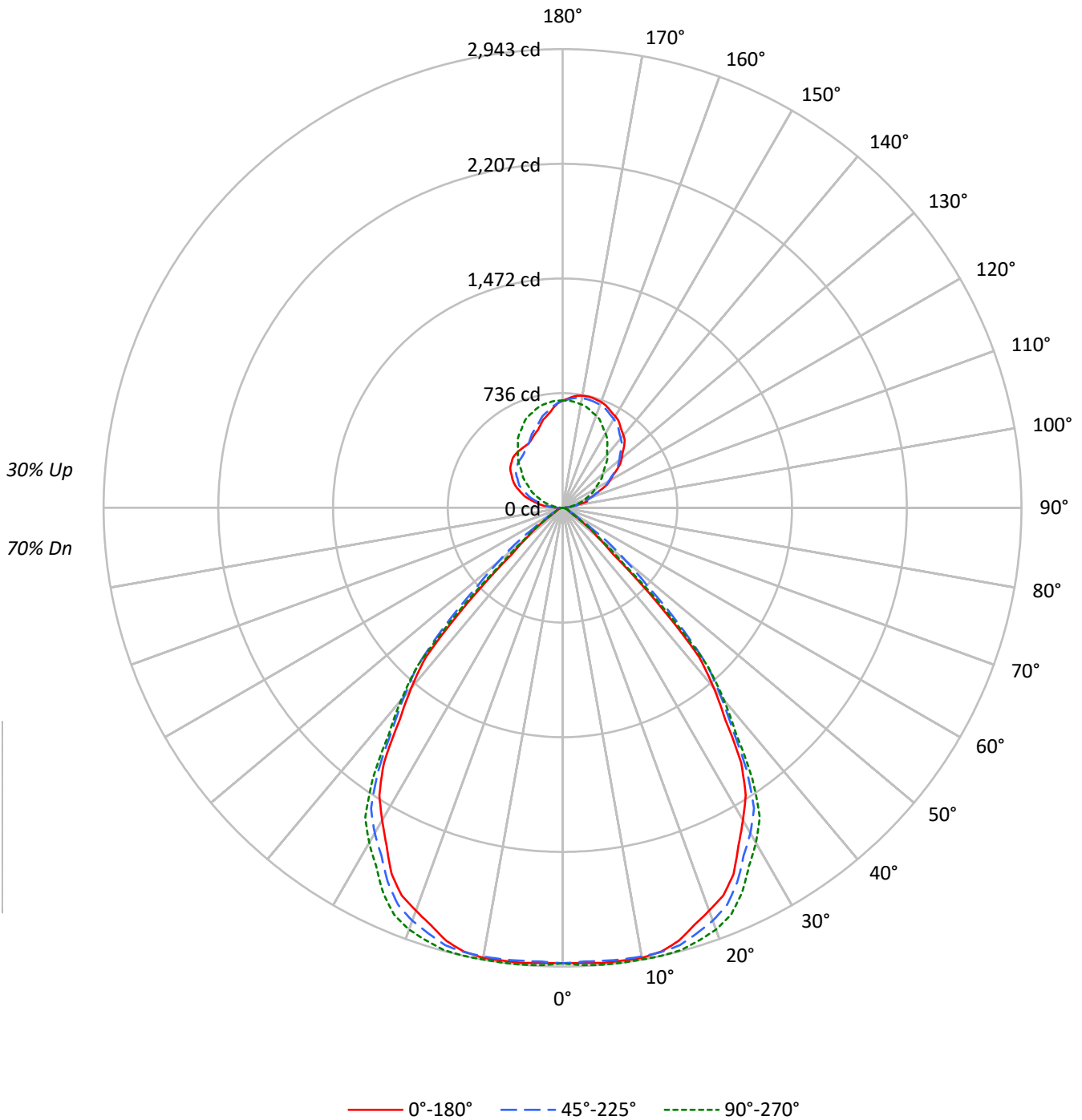
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	105	101	98	95	99	96	93	91	86	84	83	78	76	75	69	68	67	67	67	67	64	
2	97	91	86	82	92	87	83	79	79	76	73	71	69	67	64	63	61	61	61	61	58	
3	91	83	77	72	86	79	74	69	72	68	64	66	62	60	60	57	55	55	55	55	52	
4	85	75	69	64	80	72	66	62	66	61	58	60	57	54	55	52	50	50	50	50	47	
5	79	69	62	57	75	66	60	55	61	56	52	56	52	48	51	48	45	45	45	45	43	
6	74	63	56	51	70	60	54	49	56	51	47	51	47	44	47	44	41	41	41	41	39	
7	69	58	51	46	65	56	49	45	52	46	42	48	43	40	44	40	38	38	38	38	36	
8	64	53	46	41	61	51	45	40	48	42	39	44	40	37	41	37	35	35	35	35	33	
9	60	49	42	38	58	48	41	37	44	39	35	41	37	34	38	35	32	32	32	32	30	
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	36	32	29	29	29	29	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	47180	47180	47180	47180	47180
5°	47496	47285	47686	47285	47496
10°	48063	47909	48237	47909	48063
15°	48084	48563	49091	48563	48084
20°	47245	48426	49462	48426	47245
25°	46198	47227	48515	47227	46198
30°	43121	44909	46236	44909	43121
35°	39356	40628	41837	40628	39356
40°	31809	33312	33970	33312	31809
45°	19559	24077	21758	24077	19559
50°	7676	13366	8528	13366	7676
55°	4020	6086	4020	6086	4020
60°	1741	2990	1912	2990	1741
65°	1616	1805	1738	1805	1616
70°	1548	1704	1648	1704	1548
75°	1516	1650	1647	1650	1516
80°	1478	1585	1571	1585	1478
85°	1371	1389	1371	1389	1371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 24318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	4.2
10°-20°	820.3	12.4
20°-30°	1217.5	18.4
30°-40°	1264.6	19.1
40°-50°	761.0	11.5
50°-60°	182.3	2.8
60°-70°	49.4	0.7
70°-80°	27.8	0.4
80°-90°	11.6	0.2
90°-100°	54.9	0.8
100°-110°	159.9	2.4
110°-120°	260.7	3.9
120°-130°	331.0	5.0
130°-140°	354.0	5.3
140°-150°	330.6	5.0
150°-160°	272.2	4.1
160°-170°	182.5	2.8
170°-180°	64.8	1.0
0°-30°	2317.7	35.0
0°-40°	3582.3	54.1
0°-60°	4525.5	68.3
0°-90°	4614.3	69.7
90°-120°	475.5	7.2
90°-150°	1491.1	22.5
90°-180°	2011.0	30.4
0°-180°	6624.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2922	2922	2922	2922	2922	
5°	2930	2918	2942	2918	2930	280
15°	2877	2905	2937	2905	2877	808
25°	2593	2651	2723	2651	2593	1181
35°	1997	2061	2123	2061	1997	1216
45°	857	1054	953	1054	857	663
55°	143	216	143	216	143	140
65°	42	47	46	47	42	42
75°	24	26	26	26	24	26
85°	7	8	7	8	7	8
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°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2922.1	2926.6	2931.1	2924.3	2913.8	2913.3	2922.7	2930.5	2933.5	2936.5	2933.5
5°	2930.5	2935.7	2940.9	2932.0	2918.3	2916.7	2927.0	2935.6	2938.9	2942.2	2938.9
7.5°	2929.9	2935.6	2941.4	2933.8	2921.8	2921.9	2934.2	2943.4	2943.2	2943.0	2943.2
10°	2931.6	2935.8	2940.1	2932.7	2921.4	2923.0	2937.6	2947.8	2945.0	2942.2	2945.0
12.5°	2916.4	2922.9	2929.3	2924.8	2916.5	2921.5	2939.9	2952.4	2947.7	2943.0	2947.7
15°	2876.6	2886.0	2895.4	2898.1	2898.6	2912.0	2938.3	2955.7	2946.3	2936.9	2946.3
17.5°	2807.2	2818.3	2829.4	2840.2	2850.8	2873.9	2909.5	2933.3	2921.7	2910.0	2921.7
20°	2749.7	2761.9	2774.1	2788.8	2804.3	2832.5	2873.4	2901.3	2890.0	2878.7	2890.0
22.5°	2692.2	2701.0	2709.8	2724.5	2741.2	2772.0	2817.0	2847.9	2836.2	2824.6	2836.2
25°	2593.2	2600.2	2607.3	2620.7	2636.2	2665.8	2709.5	2740.2	2731.7	2723.3	2731.7
27.5°	2443.2	2455.2	2467.3	2483.8	2501.7	2529.7	2567.7	2595.5	2592.7	2590.0	2592.7
30°	2312.9	2333.6	2354.3	2374.6	2394.8	2422.8	2458.5	2484.7	2482.4	2480.0	2482.4
32.5°	2186.0	2207.4	2228.9	2250.8	2272.9	2297.5	2324.6	2345.9	2349.9	2354.0	2349.9
35°	1996.7	2007.0	2017.4	2033.7	2052.1	2070.4	2088.7	2104.7	2113.6	2122.6	2113.6
37.5°	1716.4	1728.9	1741.3	1760.9	1782.9	1800.6	1814.0	1824.7	1826.9	1829.2	1826.9
40°	1509.2	1524.2	1539.2	1555.0	1571.0	1590.0	1612.1	1626.8	1619.3	1611.7	1619.3
42.5°	1296.8	1309.6	1322.4	1342.6	1365.4	1386.5	1405.9	1415.9	1397.5	1379.1	1397.5
45°	856.6	925.3	993.9	1026.9	1048.1	1060.8	1065.0	1055.3	1004.1	952.9	1004.1
47.5°	439.3	509.5	579.8	650.6	721.5	738.8	702.3	658.8	594.3	529.8	594.3
50°	305.6	329.6	353.6	429.7	523.3	540.9	482.6	427.8	383.7	339.5	383.7
52.5°	225.3	238.3	251.4	310.2	384.1	392.5	335.4	286.5	262.2	238.0	262.2
55°	142.8	148.4	154.1	181.2	215.5	216.9	185.4	159.7	151.2	142.8	151.2
57.5°	84.4	93.3	102.3	113.7	126.0	126.1	113.9	102.7	94.5	86.3	94.5
60°	53.9	61.0	68.0	79.3	92.0	93.2	82.8	73.3	66.3	59.2	66.3
62.5°	48.9	51.4	53.9	61.8	71.5	72.1	63.7	56.7	54.1	51.6	54.1
65°	42.3	43.7	45.1	46.2	47.1	47.4	46.9	46.4	45.9	45.5	45.9
67.5°	37.0	38.0	39.1	39.6	40.0	40.4	40.9	41.0	40.1	39.1	40.1
70°	32.8	34.2	35.6	36.0	36.0	36.2	36.7	36.8	35.8	34.9	35.8
72.5°	29.4	30.4	31.5	32.0	32.4	32.8	33.3	33.4	32.5	31.5	32.5
75°	24.3	24.8	25.3	25.7	26.2	26.7	27.1	27.4	26.9	26.4	26.9
77.5°	19.2	19.7	20.2	20.6	21.0	21.2	21.3	21.2	20.8	20.3	20.8
80°	15.9	16.3	16.8	16.9	16.9	17.2	17.6	17.9	17.4	16.9	17.4
82.5°	12.5	12.6	12.7	13.0	13.3	13.6	13.7	13.7	13.6	13.5	13.6
85°	7.4	7.4	7.4	7.4	7.4	7.6	8.1	8.3	7.9	7.4	7.9
87.5°	5.5	5.5	5.5	5.5	5.3	5.3	4.9	4.2	3.6	3.0	3.6
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°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2930.5	2922.7	2913.3	2913.8	2924.3	2931.1	2926.6	2922.1
5°	2935.6	2927.0	2916.7	2918.3	2932.0	2940.9	2935.7	2930.5
7.5°	2943.4	2934.2	2921.9	2921.8	2933.8	2941.4	2935.6	2929.9
10°	2947.8	2937.6	2923.0	2921.4	2932.7	2940.1	2935.8	2931.6
12.5°	2952.4	2939.9	2921.5	2916.5	2924.8	2929.3	2922.9	2916.4
15°	2955.7	2938.3	2912.0	2898.6	2898.1	2895.4	2886.0	2876.6
17.5°	2933.3	2909.5	2873.9	2850.8	2840.2	2829.4	2818.3	2807.2
20°	2901.3	2873.4	2832.5	2804.3	2788.8	2774.1	2761.9	2749.7
22.5°	2847.9	2817.0	2772.0	2741.2	2724.5	2709.8	2701.0	2692.2
25°	2740.2	2709.5	2665.8	2636.2	2620.7	2607.3	2600.2	2593.2
27.5°	2595.5	2567.7	2529.7	2501.7	2483.8	2467.3	2455.2	2443.2
30°	2484.7	2458.5	2422.8	2394.8	2374.6	2354.3	2333.6	2312.9
32.5°	2345.9	2324.6	2297.5	2272.9	2250.8	2228.9	2207.4	2186.0
35°	2104.7	2088.7	2070.4	2052.1	2033.7	2017.4	2007.0	1996.7
37.5°	1824.7	1814.0	1800.6	1782.9	1760.9	1741.3	1728.9	1716.4
40°	1626.8	1612.1	1590.0	1571.0	1555.0	1539.2	1524.2	1509.2
42.5°	1415.9	1405.9	1386.5	1365.4	1342.6	1322.4	1309.6	1296.8
45°	1055.3	1065.0	1060.8	1048.1	1026.9	993.9	925.3	856.6
47.5°	658.8	702.3	738.8	721.5	650.6	579.8	509.5	439.3
50°	427.8	482.6	540.9	523.3	429.7	353.6	329.6	305.6
52.5°	286.5	335.4	392.5	384.1	310.2	251.4	238.3	225.3
55°	159.7	185.4	216.9	215.5	181.2	154.1	148.4	142.8
57.5°	102.7	113.9	126.1	126.0	113.7	102.3	93.3	84.4
60°	73.3	82.8	93.2	92.0	79.3	68.0	61.0	53.9
62.5°	56.7	63.7	72.1	71.5	61.8	53.9	51.4	48.9
65°	46.4	46.9	47.4	47.1	46.2	45.1	43.7	42.3
67.5°	41.0	40.9	40.4	40.0	39.6	39.1	38.0	37.0
70°	36.8	36.7	36.2	36.0	36.0	35.6	34.2	32.8
72.5°	33.4	33.3	32.8	32.4	32.0	31.5	30.4	29.4
75°	27.4	27.1	26.7	26.2	25.7	25.3	24.8	24.3
77.5°	21.2	21.3	21.2	21.0	20.6	20.2	19.7	19.2
80°	17.9	17.6	17.2	16.9	16.9	16.8	16.3	15.9
82.5°	13.7	13.7	13.6	13.3	13.0	12.7	12.6	12.5
85°	8.3	8.1	7.6	7.4	7.4	7.4	7.4	7.4
87.5°	4.0	4.9	5.9	7.0	7.8	8.2	8.7	8.9
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: P709345

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