

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: P709343

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

Issue Date: 3/5/2020

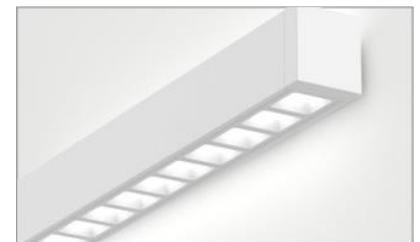
Test Information

Test Method: LM-79-2019
Report Number: P709343
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-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: 6025.4 lumens
Efficiency: N/A
Efficacy: 113.7 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

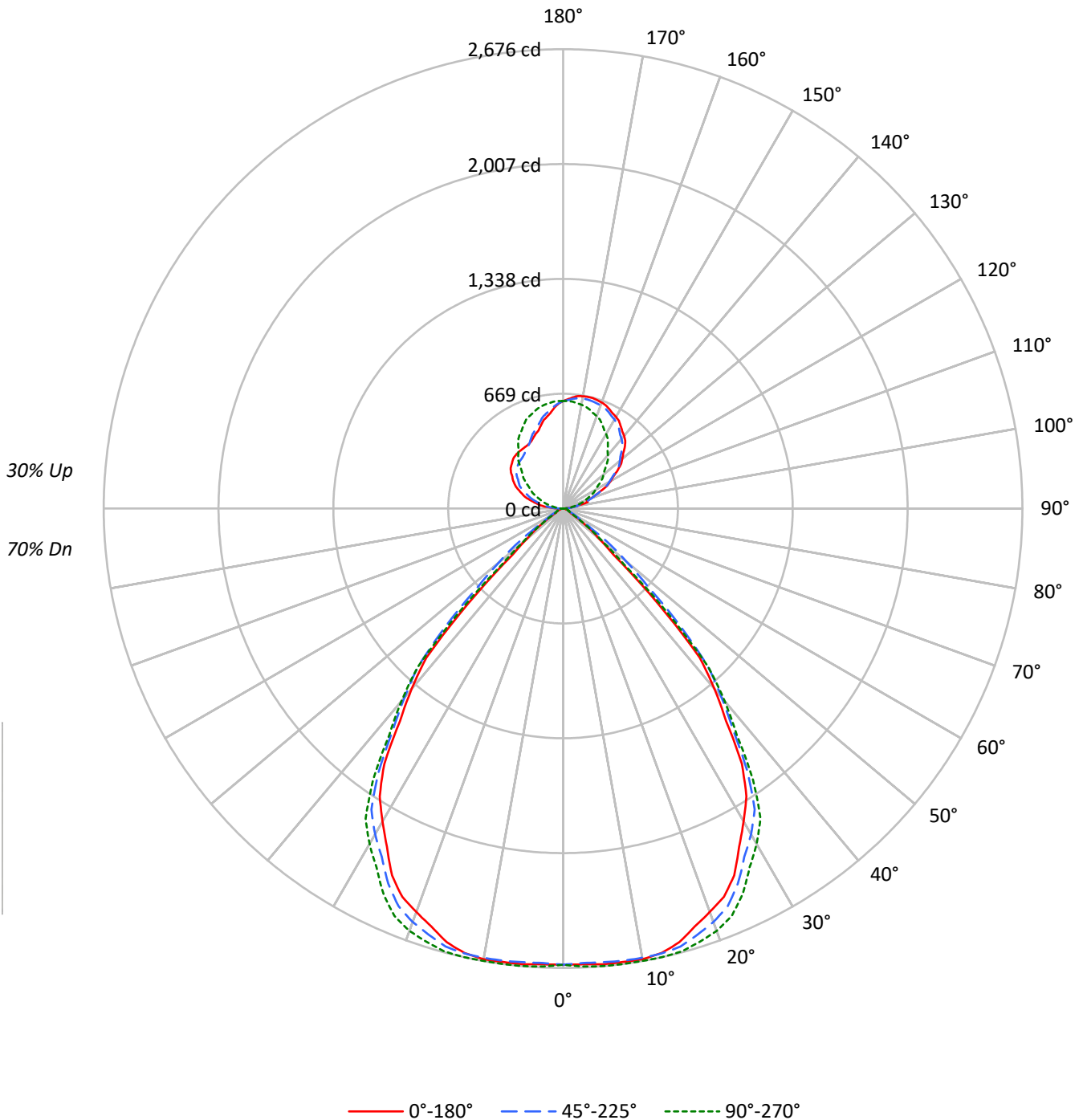
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	51	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°	42899	42899	42899	42899	42899
5°	43188	42996	43358	42996	43188
10°	43702	43562	43860	43562	43702
15°	43721	44157	44637	44157	43721
20°	42959	44033	44974	44033	42959
25°	42006	42942	44113	42942	42006
30°	39209	40834	42041	40834	39209
35°	35784	36941	38041	36941	35784
40°	28922	30290	30888	30290	28922
45°	17785	21892	19783	21892	17785
50°	6980	12152	7754	12152	6980
55°	3654	5534	3654	5534	3654
60°	1582	2719	1741	2719	1582
65°	1471	1641	1578	1641	1471
70°	1407	1548	1496	1548	1407
75°	1379	1500	1497	1500	1379
80°	1339	1441	1432	1441	1339
85°	1241	1260	1241	1260	1241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 22112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	4.2
10°-20°	745.9	12.4
20°-30°	1107.0	18.4
30°-40°	1149.8	19.1
40°-50°	691.9	11.5
50°-60°	165.7	2.8
60°-70°	44.9	0.7
70°-80°	25.2	0.4
80°-90°	10.5	0.2
90°-100°	50.0	0.8
100°-110°	145.5	2.4
110°-120°	237.3	3.9
120°-130°	301.2	5.0
130°-140°	322.2	5.3
140°-150°	300.8	5.0
150°-160°	247.7	4.1
160°-170°	166.1	2.8
170°-180°	59.0	1.0
0°-30°	2107.4	35.0
0°-40°	3257.3	54.1
0°-60°	4114.9	68.3
0°-90°	4195.6	69.6
90°-120°	432.8	7.2
90°-150°	1357.0	22.5
90°-180°	1830.0	30.4
0°-180°	6025.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2657	2657	2657	2657	2657	
5°	2665	2653	2675	2653	2665	254
15°	2616	2642	2670	2642	2616	735
25°	2358	2410	2476	2410	2358	1074
35°	1816	1874	1930	1874	1816	1106
45°	779	959	866	959	779	603
55°	130	197	130	197	130	127
65°	38	43	41	43	38	39
75°	22	24	24	24	22	23
85°	7	7	7	7	7	8
90°	14	12	2	18	29	7
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°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2657.0	2661.1	2665.2	2659.0	2649.5	2648.9	2657.5	2664.6	2667.3	2670.1	2667.3
5°	2664.7	2669.4	2674.1	2665.9	2653.6	2652.1	2661.5	2669.3	2672.3	2675.2	2672.3
7.5°	2664.1	2669.3	2674.5	2667.6	2656.7	2656.8	2668.0	2676.4	2676.2	2676.0	2676.2
10°	2665.6	2669.5	2673.3	2666.6	2656.3	2657.8	2671.1	2680.4	2677.8	2675.2	2677.8
12.5°	2651.8	2657.7	2663.6	2659.4	2651.9	2656.5	2673.1	2684.6	2680.3	2676.0	2680.3
15°	2615.6	2624.2	2632.7	2635.2	2635.6	2647.8	2671.7	2687.5	2679.0	2670.4	2679.0
17.5°	2552.5	2562.6	2572.7	2582.5	2592.1	2613.2	2645.6	2667.2	2656.6	2646.0	2656.6
20°	2500.2	2511.3	2522.5	2535.8	2549.9	2575.6	2612.7	2638.1	2627.8	2617.5	2627.8
22.5°	2447.9	2456.0	2464.0	2477.3	2492.5	2520.5	2561.5	2589.5	2578.9	2568.3	2578.9
25°	2357.9	2364.3	2370.7	2382.9	2397.0	2423.9	2463.7	2491.6	2483.9	2476.2	2483.9
27.5°	2221.5	2232.5	2243.4	2258.4	2274.7	2300.2	2334.7	2360.0	2357.5	2355.0	2357.5
30°	2103.1	2121.9	2140.7	2159.2	2177.5	2203.0	2235.5	2259.3	2257.1	2255.0	2257.1
32.5°	1987.7	2007.2	2026.7	2046.6	2066.7	2089.0	2113.7	2133.0	2136.7	2140.4	2136.7
35°	1815.5	1825.0	1834.4	1849.2	1865.9	1882.5	1899.2	1913.7	1921.9	1930.0	1921.9
37.5°	1560.7	1572.0	1583.3	1601.1	1621.1	1637.2	1649.4	1659.1	1661.2	1663.2	1661.2
40°	1372.2	1385.9	1399.6	1413.9	1428.4	1445.8	1465.8	1479.2	1472.4	1465.5	1472.4
42.5°	1179.1	1190.8	1202.4	1220.8	1241.5	1260.7	1278.4	1287.5	1270.7	1254.0	1270.7
45°	778.9	841.3	903.7	933.7	953.0	964.5	968.4	959.6	913.0	866.4	913.0
47.5°	399.5	463.3	527.2	591.5	656.1	671.7	638.6	599.1	540.4	481.8	540.4
50°	277.9	299.7	321.5	390.7	475.8	491.8	438.8	389.0	348.9	308.7	348.9
52.5°	204.8	216.7	228.6	282.0	349.3	356.9	305.0	260.5	238.4	216.4	238.4
55°	129.8	134.9	140.1	164.8	196.0	197.2	168.6	145.2	137.5	129.8	137.5
57.5°	76.7	84.9	93.0	103.4	114.6	114.6	103.5	93.3	85.9	78.5	85.9
60°	49.0	55.5	61.9	72.1	83.7	84.7	75.3	66.7	60.3	53.9	60.3
62.5°	44.4	46.7	49.0	56.2	65.0	65.6	57.9	51.5	49.2	46.9	49.2
65°	38.5	39.7	41.0	42.0	42.8	43.1	42.6	42.2	41.8	41.3	41.8
67.5°	33.7	34.6	35.5	36.0	36.4	36.8	37.2	37.3	36.4	35.6	36.4
70°	29.8	31.1	32.4	32.7	32.7	32.9	33.3	33.4	32.6	31.7	32.6
72.5°	26.7	27.7	28.6	29.1	29.4	29.8	30.3	30.4	29.5	28.7	29.5
75°	22.1	22.5	23.0	23.4	23.8	24.3	24.7	24.9	24.5	24.0	24.5
77.5°	17.5	17.9	18.4	18.7	19.1	19.3	19.4	19.3	18.9	18.5	18.9
80°	14.4	14.9	15.3	15.4	15.4	15.6	16.0	16.2	15.8	15.4	15.8
82.5°	11.3	11.4	11.5	11.8	12.1	12.4	12.4	12.5	12.4	12.3	12.4
85°	6.7	6.7	6.7	6.7	6.7	6.9	7.4	7.6	7.2	6.7	7.2
87.5°	5.0	5.0	5.0	5.0	4.8	4.8	4.4	3.8	3.3	2.7	3.3
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°	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0	2657.0
2.5°	2664.6	2657.5	2648.9	2649.5	2659.0	2665.2	2661.1	2657.0
5°	2669.3	2661.5	2652.1	2653.6	2665.9	2674.1	2669.4	2664.7
7.5°	2676.4	2668.0	2656.8	2656.7	2667.6	2674.5	2669.3	2664.1
10°	2680.4	2671.1	2657.8	2656.3	2666.6	2673.3	2669.5	2665.6
12.5°	2684.6	2673.1	2656.5	2651.9	2659.4	2663.6	2657.7	2651.8
15°	2687.5	2671.7	2647.8	2635.6	2635.2	2632.7	2624.2	2615.6
17.5°	2667.2	2645.6	2613.2	2592.1	2582.5	2572.7	2562.6	2552.5
20°	2638.1	2612.7	2575.6	2549.9	2535.8	2522.5	2511.3	2500.2
22.5°	2589.5	2561.5	2520.5	2492.5	2477.3	2464.0	2456.0	2447.9
25°	2491.6	2463.7	2423.9	2397.0	2382.9	2370.7	2364.3	2357.9
27.5°	2360.0	2334.7	2300.2	2274.7	2258.4	2243.4	2232.5	2221.5
30°	2259.3	2235.5	2203.0	2177.5	2159.2	2140.7	2121.9	2103.1
32.5°	2133.0	2113.7	2089.0	2066.7	2046.6	2026.7	2007.2	1987.7
35°	1913.7	1899.2	1882.5	1865.9	1849.2	1834.4	1825.0	1815.5
37.5°	1659.1	1649.4	1637.2	1621.1	1601.1	1583.3	1572.0	1560.7
40°	1479.2	1465.8	1445.8	1428.4	1413.9	1399.6	1385.9	1372.2
42.5°	1287.5	1278.4	1260.7	1241.5	1220.8	1202.4	1190.8	1179.1
45°	959.6	968.4	964.5	953.0	933.7	903.7	841.3	778.9
47.5°	599.1	638.6	671.7	656.1	591.5	527.2	463.3	399.5
50°	389.0	438.8	491.8	475.8	390.7	321.5	299.7	277.9
52.5°	260.5	305.0	356.9	349.3	282.0	228.6	216.7	204.8
55°	145.2	168.6	197.2	196.0	164.8	140.1	134.9	129.8
57.5°	93.3	103.5	114.6	114.6	103.4	93.0	84.9	76.7
60°	66.7	75.3	84.7	83.7	72.1	61.9	55.5	49.0
62.5°	51.5	57.9	65.6	65.0	56.2	49.0	46.7	44.4
65°	42.2	42.6	43.1	42.8	42.0	41.0	39.7	38.5
67.5°	37.3	37.2	36.8	36.4	36.0	35.5	34.6	33.7
70°	33.4	33.3	32.9	32.7	32.7	32.4	31.1	29.8
72.5°	30.4	30.3	29.8	29.4	29.1	28.6	27.7	26.7
75°	24.9	24.7	24.3	23.8	23.4	23.0	22.5	22.1
77.5°	19.3	19.4	19.3	19.1	18.7	18.4	17.9	17.5
80°	16.2	16.0	15.6	15.4	15.4	15.3	14.9	14.4
82.5°	12.5	12.4	12.4	12.1	11.8	11.5	11.4	11.3
85°	7.6	7.4	6.9	6.7	6.7	6.7	6.7	6.7
87.5°	3.7	4.4	5.4	6.3	7.1	7.5	7.9	8.1
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: P709343

CATALOG NUMBER: DL2W-WB-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)