

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: P709333

Luminaire Tested: DL2W-WB-M-025U-100D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709333  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-100D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5636.8 lumens  
Efficiency: N/A  
Efficacy: 123.6 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

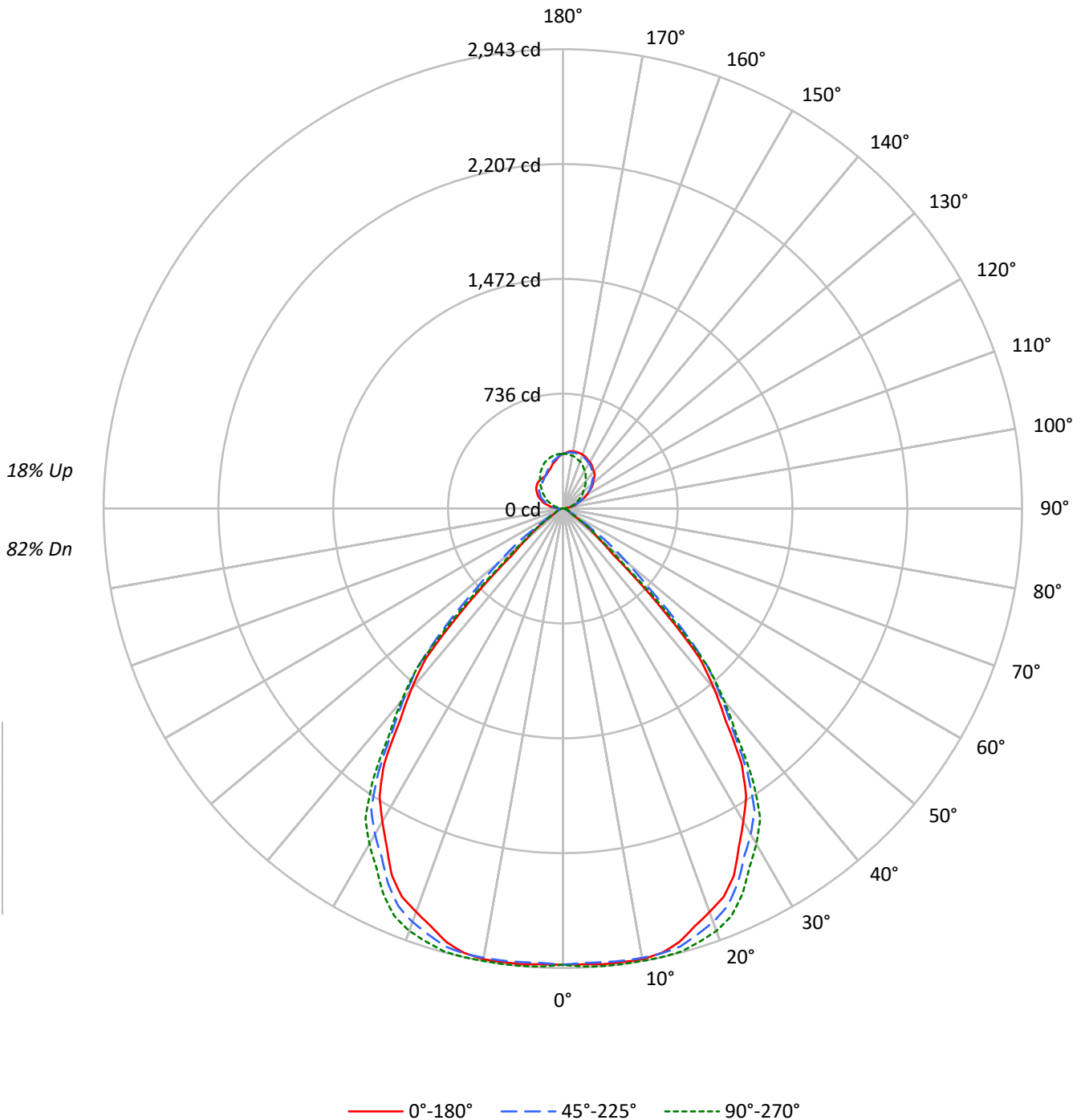
Input Watts (W): 45.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	108	104	101	99	103	100	98	95	93	91	89	86	85	83	80	79	78	75
2	101	95	90	86	97	92	87	84	85	82	79	80	77	75	74	72	70	68
3	94	86	80	76	90	84	78	74	78	74	70	73	70	67	69	66	64	61
4	88	79	72	67	85	76	70	66	72	67	63	68	64	60	64	60	58	55
5	82	72	65	60	79	70	64	59	66	61	57	62	58	55	59	55	53	50
6	77	66	59	54	74	64	58	53	61	56	51	58	53	50	55	51	48	46
7	72	61	54	49	69	59	53	48	56	51	47	54	49	45	51	47	44	42
8	67	56	49	45	65	55	49	44	52	47	43	50	45	41	47	43	40	38
9	63	52	45	41	61	51	45	40	49	43	39	46	42	38	44	40	37	35
10	60	49	42	38	58	48	41	37	45	40	36	43	39	35	42	37	34	33

**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	5.0
10°-20°	820.3	14.6
20°-30°	1217.5	21.6
30°-40°	1264.6	22.4
40°-50°	761.0	13.5
50°-60°	182.3	3.2
60°-70°	49.4	0.9
70°-80°	27.8	0.5
80°-90°	10.2	0.2
90°-100°	28.0	0.5
100°-110°	81.5	1.4
110°-120°	132.8	2.4
120°-130°	168.5	3.0
130°-140°	180.3	3.2
140°-150°	168.3	3.0
150°-160°	138.6	2.5
160°-170°	93.0	1.6
170°-180°	33.0	0.6
0°-30°	2317.7	41.1
0°-40°	3582.3	63.6
0°-60°	4525.5	80.3
0°-90°	4612.9	81.8
90°-120°	242.2	4.3
90°-150°	759.4	13.5
90°-180°	1024.0	18.2
0°-180°	5636.8	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°	7	7	1	10	17	4
95°	8	11	12	35	49	14
105°	84	62	52	94	115	78
115°	137	137	99	147	170	136
125°	217	211	147	183	207	193
135°	285	271	199	206	229	219
145°	329	318	255	219	235	206
155°	358	348	302	249	243	165
165°	373	364	334	292	280	105
175°	365	359	350	333	330	35
180°	351	351	351	351	351	

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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°	4.0	4.0	4.0	4.0	4.0	3.8	3.8	3.4	3.2	2.7	3.0
90°	7.4	7.4	7.4	7.4	7.4	6.3	6.3	4.2	3.2	1.1	2.1
92.5°	9.1	9.1	9.1	9.1	8.2	7.2	6.3	5.9	6.6	3.6	7.2
95°	8.5	8.5	8.5	8.5	9.5	12.7	16.9	18.0	12.7	11.6	15.9
97.5°	19.2	20.5	21.8	25.8	32.3	33.6	31.9	22.4	22.2	21.1	28.5
100°	37.0	39.1	41.2	44.4	51.8	41.2	32.8	31.7	30.6	29.6	37.0
102.5°	61.5	62.8	65.7	65.5	50.9	45.4	43.8	41.8	39.1	38.0	46.3
105°	84.5	79.3	69.7	61.3	62.4	62.4	62.4	57.1	52.8	51.8	60.2
107.5°	81.2	80.1	81.2	83.1	84.1	83.9	81.4	74.6	67.2	65.7	74.2
110°	97.2	96.2	97.2	98.3	99.3	98.3	94.1	85.6	78.2	75.0	83.5

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	111.6	112.2	113.3	114.3	114.6	113.5	108.4	98.3	88.3	84.3	91.9
115°	137.4	137.4	137.4	138.4	138.4	136.3	128.9	117.3	104.6	99.3	104.6
117.5°	162.3	161.5	161.5	161.5	161.5	157.9	149.2	135.3	121.1	113.3	118.2
120°	177.5	177.5	177.5	177.5	177.5	172.3	162.7	148.0	132.1	122.6	125.8
122.5°	193.6	192.8	193.6	192.8	191.9	186.6	175.4	160.6	143.9	131.9	133.4
125°	216.6	216.6	214.5	214.5	213.5	208.2	195.5	179.7	161.7	146.9	145.8
127.5°	238.0	238.8	236.1	235.0	233.3	225.9	214.5	199.7	178.6	161.3	156.4
130°	251.5	251.5	250.5	249.4	245.2	237.8	227.2	212.4	191.3	172.3	164.9
132.5°	265.9	265.9	264.8	262.1	257.0	250.5	239.9	225.1	203.1	183.3	173.3
135°	285.3	284.3	282.2	280.1	274.8	267.4	257.9	243.1	220.9	198.7	187.1
137.5°	301.2	300.1	298.2	294.2	290.0	282.8	273.3	259.3	238.6	216.2	200.2
140°	309.6	308.6	307.5	304.4	300.1	293.8	284.3	269.5	250.5	227.2	210.3
142.5°	317.3	317.0	315.1	312.8	308.6	301.4	293.6	279.6	260.6	239.1	220.5
145°	328.7	328.7	327.6	325.5	321.3	313.9	307.5	294.9	275.8	254.7	235.7
147.5°	338.6	338.8	337.5	335.4	331.4	325.1	318.9	306.3	289.8	270.8	250.9
150°	344.5	345.6	343.5	341.4	338.2	331.8	326.6	313.9	299.1	280.1	261.0
152.5°	349.6	351.5	349.4	348.1	344.1	337.8	332.5	320.6	306.7	290.2	271.2
155°	358.3	359.3	357.2	356.1	350.9	345.6	341.4	329.7	317.0	302.2	286.4
157.5°	364.4	365.4	364.4	362.3	357.0	351.9	347.7	338.2	326.8	314.5	299.1
160°	367.8	368.8	367.8	365.7	360.4	356.1	351.9	342.4	331.8	321.3	307.5
162.5°	370.3	371.4	370.3	368.2	362.9	358.7	355.3	346.6	336.9	326.3	314.3
165°	373.1	374.1	373.1	369.9	365.7	361.4	358.3	350.9	342.4	334.0	325.5
167.5°	372.8	375.0	373.1	371.8	365.7	363.5	360.6	354.2	347.3	340.3	332.3
170°	372.0	374.1	373.1	370.9	365.7	363.5	361.4	355.1	349.8	344.5	338.2
172.5°	370.3	371.6	370.5	369.3	364.0	361.9	360.6	355.9	351.5	347.1	341.6
175°	364.6	366.7	365.7	364.6	359.3	358.3	359.3	355.1	351.9	349.8	346.6
177.5°	356.8	358.5	357.6	356.8	354.2	353.4	355.1	353.4	351.7	350.9	349.2
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

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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°	3.4	3.8	4.2	4.7	5.3	5.5	5.7	5.9
90°	4.2	6.3	8.5	10.6	13.7	14.8	15.9	16.9
92.5°	9.3	13.1	16.9	19.9	23.9	26.6	26.8	27.9
95°	22.2	27.5	32.8	38.0	43.3	47.6	48.6	48.6
97.5°	35.3	43.5	50.5	56.9	63.0	66.6	68.9	71.0
100°	45.4	52.8	62.4	68.7	74.0	79.3	82.4	84.5
102.5°	55.6	63.0	72.5	80.5	88.3	91.9	96.0	97.2
105°	70.8	79.3	88.8	98.3	104.6	109.9	113.1	115.2
107.5°	85.0	95.5	104.6	113.5	120.1	126.4	130.4	131.7
110°	95.1	105.7	117.3	123.6	131.0	137.4	140.6	142.7



TEST NUMBER: P709333

CATALOG NUMBER: DL2W-WB-M-025U-100D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	104.4	115.8	127.5	135.5	142.9	149.2	152.4	154.5
115°	117.3	128.9	140.6	153.2	160.6	164.9	168.0	170.1
117.5°	128.9	141.6	153.2	164.7	173.1	176.5	178.6	179.9
120°	137.4	150.1	161.7	172.3	180.7	184.9	187.1	189.2
122.5°	144.1	156.8	168.5	179.0	187.5	192.6	195.5	196.8
125°	154.3	165.9	178.6	188.1	196.6	202.9	206.1	207.1
127.5°	162.3	174.4	187.1	197.0	205.4	210.5	213.7	215.6
130°	169.1	178.6	191.3	202.9	211.4	215.6	218.8	219.8
132.5°	175.9	183.7	195.5	207.1	215.6	220.7	223.8	224.9
135°	184.9	189.2	199.7	211.4	219.8	225.1	228.3	229.3
137.5°	196.4	197.8	203.8	214.7	223.4	228.7	231.7	232.7
140°	204.0	202.9	207.1	215.6	225.1	230.4	232.5	233.6
142.5°	210.7	208.8	210.5	217.3	225.1	230.4	233.3	233.6
145°	224.0	218.8	216.6	220.9	226.2	231.4	234.6	234.6
147.5°	236.9	230.4	225.5	226.4	229.1	232.9	234.8	235.0
150°	246.2	238.8	231.4	231.4	232.5	234.6	235.7	236.7
152.5°	256.4	247.3	239.1	237.4	236.7	237.1	239.1	238.4
155°	270.5	260.0	250.5	247.3	245.2	244.1	244.1	243.1
157.5°	284.5	274.8	263.4	258.9	255.5	253.6	252.4	251.3
160°	293.8	283.2	272.7	267.4	263.1	262.1	260.0	258.9
162.5°	303.1	291.7	282.0	275.8	271.6	270.5	269.3	267.4
165°	314.9	306.5	294.9	288.5	286.4	283.2	282.2	280.1
167.5°	325.9	318.9	309.6	303.5	299.5	297.4	296.3	294.2
170°	331.8	326.6	318.1	312.8	309.6	307.5	306.5	304.4
172.5°	336.9	332.5	325.7	321.3	318.9	317.7	315.8	314.5
175°	343.5	341.4	335.0	331.8	332.9	331.8	331.8	329.7
177.5°	348.3	347.5	344.1	342.4	344.9	344.1	344.1	341.6
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

(END OF REPORT)