

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: P709336

Luminaire Tested: DL2W-WB-M-025U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709336
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-025U-125D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6778.6 lumens
Efficiency: N/A
Efficacy: 118.5 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

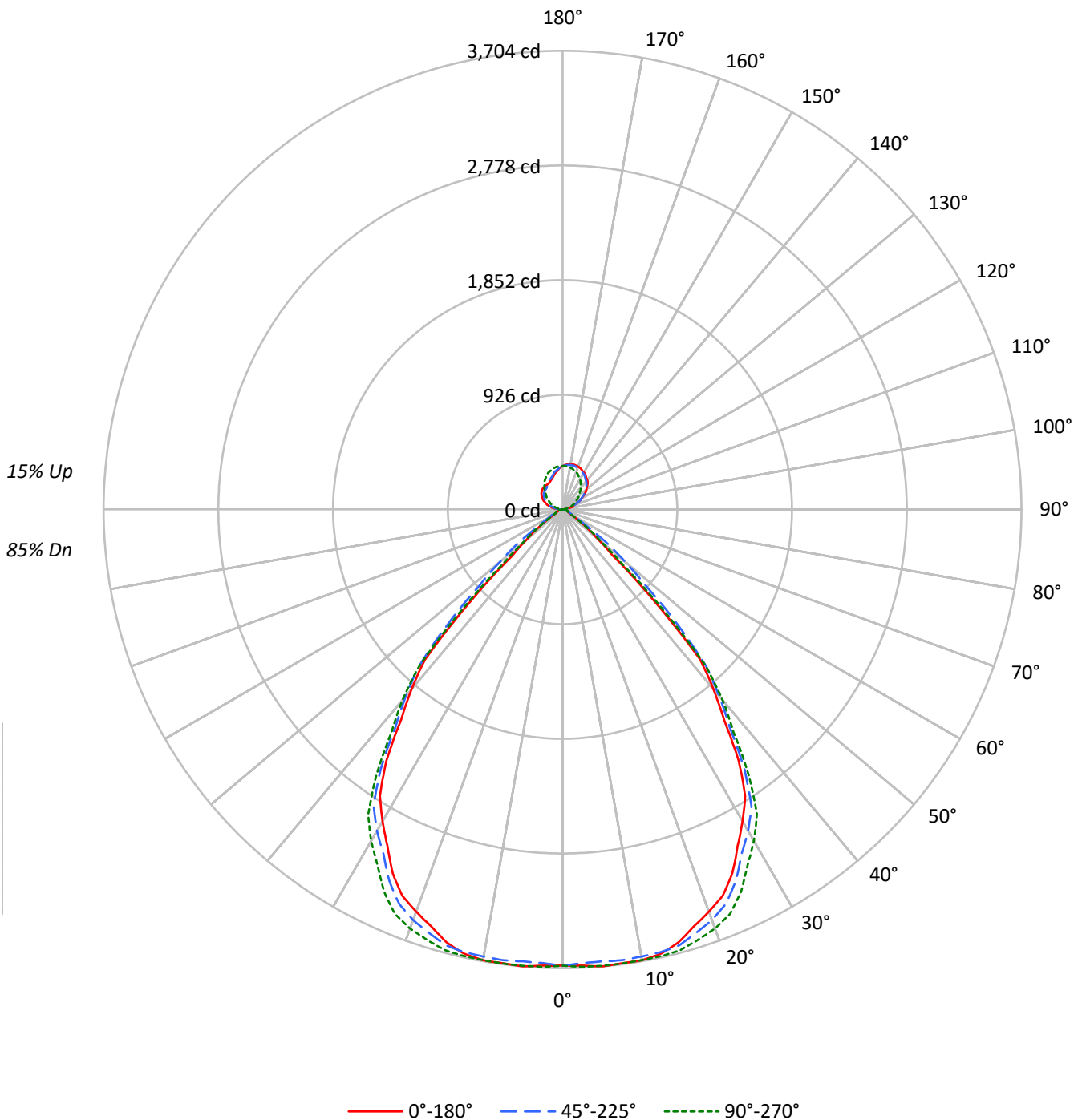
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	50	30	10	0		
RCR																										
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85								
1	109	105	102	100	104	102	99	97	95	93	91	88	87	85	83	81	80	78								
2	102	96	91	87	98	93	88	85	87	84	81	82	79	77	77	75	73	70								
3	95	87	81	77	92	85	79	75	80	75	72	75	72	69	71	68	66	64								
4	89	80	73	68	86	78	72	67	73	68	64	70	65	62	66	63	60	58								
5	83	73	66	61	80	71	65	60	68	62	58	64	60	56	61	57	54	52								
6	78	67	60	55	75	66	59	54	62	57	53	59	55	51	57	53	50	48								
7	73	62	55	50	70	60	54	49	58	52	48	55	50	47	53	49	45	44								
8	68	57	50	46	66	56	49	45	54	48	44	51	46	43	49	45	42	40								
9	64	53	46	42	62	52	46	41	50	44	40	48	43	39	46	42	38	37								
10	61	49	43	38	59	48	42	38	47	41	37	45	40	36	43	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	59473	59473	59473	59473	59473
5°	60026	59373	59940	59373	60026
10°	60599	60096	60581	60096	60599
15°	60495	60887	61553	60887	60495
20°	59369	60596	61855	60596	59369
25°	57774	58945	60690	58945	57774
30°	54178	55849	57586	55849	54178
35°	48846	50424	51637	50424	48846
40°	39943	41454	42392	41454	39943
45°	24048	29938	26508	29938	24048
50°	9367	16631	10482	16631	9367
55°	5025	7537	5084	7537	5025
60°	2183	3726	2386	3726	2183
65°	2059	2279	2139	2279	2059
70°	1945	2146	2096	2146	1945
75°	1847	2049	2040	2049	1847
80°	1767	1976	1962	1976	1767
85°	1760	1778	1760	1778	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 30150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	5.2
10°-20°	1028.8	15.2
20°-30°	1520.9	22.4
30°-40°	1571.5	23.2
40°-50°	945.6	13.9
50°-60°	227.0	3.3
60°-70°	62.0	0.9
70°-80°	34.6	0.5
80°-90°	12.3	0.2
90°-100°	28.0	0.4
100°-110°	81.5	1.2
110°-120°	132.8	2.0
120°-130°	168.5	2.5
130°-140°	180.3	2.7
140°-150°	168.3	2.5
150°-160°	138.6	2.0
160°-170°	93.0	1.4
170°-180°	33.0	0.5
0°-30°	2901.6	42.8
0°-40°	4473.1	66.0
0°-60°	5645.7	83.3
0°-90°	5754.6	84.9
90°-120°	242.2	3.6
90°-150°	759.4	11.2
90°-180°	1024.0	15.1
0°-180°	6778.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3684	3684	3684	3684	3684	
5°	3704	3663	3698	3663	3704	353
15°	3619	3643	3682	3643	3619	1016
25°	3243	3309	3407	3309	3243	1480
35°	2478	2558	2620	2558	2478	1520
45°	1053	1311	1161	1311	1053	828
55°	178	268	181	268	178	174
65°	54	60	56	60	54	53
75°	30	33	33	33	30	32
85°	10	10	10	10	10	10
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°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3686.9	3689.5	3692.1	3681.5	3666.5	3665.4	3678.1	3688.8	3692.9	3697.0	3692.9
5°	3703.6	3704.5	3705.4	3688.4	3665.4	3661.2	3675.7	3688.0	3693.1	3698.3	3693.1
7.5°	3695.3	3699.0	3702.7	3690.3	3672.5	3669.8	3682.2	3692.2	3694.9	3697.7	3694.9
10°	3696.2	3697.6	3699.0	3684.9	3665.7	3665.4	3684.2	3697.9	3696.5	3695.1	3696.5
12.5°	3674.2	3677.9	3681.5	3672.2	3658.6	3664.2	3689.0	3706.0	3699.7	3693.4	3699.7
15°	3619.1	3626.1	3633.1	3634.6	3634.1	3651.0	3685.3	3707.8	3695.1	3682.4	3695.1
17.5°	3528.0	3536.9	3545.8	3557.7	3570.6	3599.2	3643.6	3673.1	3657.7	3642.3	3657.7
20°	3455.3	3464.2	3473.2	3489.8	3509.1	3544.3	3595.5	3630.1	3615.1	3600.0	3615.1
22.5°	3376.7	3384.1	3391.6	3408.1	3427.8	3466.0	3522.8	3561.9	3548.0	3534.1	3548.0
25°	3243.0	3247.2	3251.4	3268.0	3288.7	3328.8	3388.4	3430.2	3418.5	3406.7	3418.5
27.5°	3061.5	3068.7	3076.0	3092.9	3113.1	3150.5	3205.2	3244.9	3239.9	3235.0	3239.9
30°	2906.0	2919.6	2933.3	2954.6	2978.6	3012.6	3056.7	3089.7	3089.2	3088.8	3089.2
32.5°	2742.9	2759.9	2776.9	2799.1	2823.1	2852.0	2886.0	2912.3	2915.6	2918.9	2915.6
35°	2478.2	2491.8	2505.4	2525.0	2546.6	2569.9	2594.8	2614.1	2616.9	2619.8	2616.9
37.5°	2141.0	2154.7	2168.4	2185.8	2204.4	2225.6	2249.3	2267.3	2267.7	2268.2	2267.7
40°	1895.1	1903.5	1912.0	1931.7	1955.2	1978.4	2001.4	2017.9	2014.6	2011.3	2014.6
42.5°	1643.3	1648.7	1654.2	1674.8	1700.5	1723.4	1743.4	1752.3	1728.0	1703.7	1728.0
45°	1053.2	1141.0	1228.8	1273.3	1303.3	1319.0	1320.4	1303.7	1232.3	1160.9	1232.3
47.5°	545.3	631.3	717.3	808.8	902.1	924.0	874.4	818.0	741.0	664.0	741.0
50°	372.9	406.7	440.5	535.6	651.1	673.1	601.8	533.7	475.5	417.3	475.5
52.5°	278.2	294.8	311.3	385.1	478.1	488.2	415.3	353.5	325.0	296.4	325.0
55°	178.5	185.6	192.6	225.4	266.7	268.8	231.7	201.3	191.0	180.6	191.0
57.5°	109.9	119.1	128.3	142.5	158.5	158.6	143.0	128.8	119.1	109.4	119.1
60°	67.6	76.1	84.5	98.6	114.6	116.2	103.5	91.8	82.9	73.9	82.9
62.5°	60.8	64.0	67.2	77.5	90.0	91.1	80.7	72.1	68.8	65.5	68.8
65°	53.9	54.8	55.8	57.4	59.3	60.0	59.5	58.8	57.4	56.0	57.4
67.5°	46.3	47.7	49.1	49.8	50.3	50.7	51.2	51.3	50.4	49.4	50.4
70°	41.2	42.6	44.0	44.7	45.2	45.7	46.1	46.2	45.3	44.4	45.3
72.5°	37.0	38.0	39.0	39.6	40.1	40.6	41.1	41.2	40.2	39.3	40.2
75°	29.6	30.5	31.5	32.0	32.5	33.2	34.2	34.6	33.7	32.7	33.7
77.5°	23.2	24.2	25.1	25.6	26.0	26.4	26.9	27.0	26.2	25.4	26.2
80°	19.0	20.0	20.9	21.1	21.1	21.4	21.8	22.1	21.6	21.1	21.6
82.5°	14.8	15.4	15.9	16.1	16.1	16.3	16.8	17.1	17.0	16.9	17.0
85°	9.5	9.5	9.5	9.5	9.5	9.7	10.2	10.4	10.0	9.5	10.0
87.5°	4.0	4.4	4.8	4.9	4.9	4.6	4.6	4.2	4.0	3.6	3.8
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°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3688.8	3678.1	3665.4	3666.5	3681.5	3692.1	3689.5	3686.9
5°	3688.0	3675.7	3661.2	3665.4	3688.4	3705.4	3704.5	3703.6
7.5°	3692.2	3682.2	3669.8	3672.5	3690.3	3702.7	3699.0	3695.3
10°	3697.9	3684.2	3665.4	3665.7	3684.9	3699.0	3697.6	3696.2
12.5°	3706.0	3689.0	3664.2	3658.6	3672.2	3681.5	3677.9	3674.2
15°	3707.8	3685.3	3651.0	3634.1	3634.6	3633.1	3626.1	3619.1
17.5°	3673.1	3643.6	3599.2	3570.6	3557.7	3545.8	3536.9	3528.0
20°	3630.1	3595.5	3544.3	3509.1	3489.8	3473.2	3464.2	3455.3
22.5°	3561.9	3522.8	3466.0	3427.8	3408.1	3391.6	3384.1	3376.7
25°	3430.2	3388.4	3328.8	3288.7	3268.0	3251.4	3247.2	3243.0
27.5°	3244.9	3205.2	3150.5	3113.1	3092.9	3076.0	3068.7	3061.5
30°	3089.7	3056.7	3012.6	2978.6	2954.6	2933.3	2919.6	2906.0
32.5°	2912.3	2886.0	2852.0	2823.1	2799.1	2776.9	2759.9	2742.9
35°	2614.1	2594.8	2569.9	2546.6	2525.0	2505.4	2491.8	2478.2
37.5°	2267.3	2249.3	2225.6	2204.4	2185.8	2168.4	2154.7	2141.0
40°	2017.9	2001.4	1978.4	1955.2	1931.7	1912.0	1903.5	1895.1
42.5°	1752.3	1743.4	1723.4	1700.5	1674.8	1654.2	1648.7	1643.3
45°	1303.7	1320.4	1319.0	1303.3	1273.3	1228.8	1141.0	1053.2
47.5°	818.0	874.4	924.0	902.1	808.8	717.3	631.3	545.3
50°	533.7	601.8	673.1	651.1	535.6	440.5	406.7	372.9
52.5°	353.5	415.3	488.2	478.1	385.1	311.3	294.8	278.2
55°	201.3	231.7	268.8	266.7	225.4	192.6	185.6	178.5
57.5°	128.8	143.0	158.6	158.5	142.5	128.3	119.1	109.9
60°	91.8	103.5	116.2	114.6	98.6	84.5	76.1	67.6
62.5°	72.1	80.7	91.1	90.0	77.5	67.2	64.0	60.8
65°	58.8	59.5	60.0	59.3	57.4	55.8	54.8	53.9
67.5°	51.3	51.2	50.7	50.3	49.8	49.1	47.7	46.3
70°	46.2	46.1	45.7	45.2	44.7	44.0	42.6	41.2
72.5°	41.2	41.1	40.6	40.1	39.6	39.0	38.0	37.0
75°	34.6	34.2	33.2	32.5	32.0	31.5	30.5	29.6
77.5°	27.0	26.9	26.4	26.0	25.6	25.1	24.2	23.2
80°	22.1	21.8	21.4	21.1	21.1	20.9	20.0	19.0
82.5°	17.1	16.8	16.3	16.1	16.1	15.9	15.4	14.8
85°	10.4	10.2	9.7	9.5	9.5	9.5	9.5	9.5
87.5°	4.2	4.6	5.1	5.5	6.1	6.2	6.1	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: P709336

CATALOG NUMBER: DL2W-WB-M-025U-125D-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)