

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: P709348

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709348
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-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: 7766.7 lumens
Efficiency: N/A
Efficacy: 120.2 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

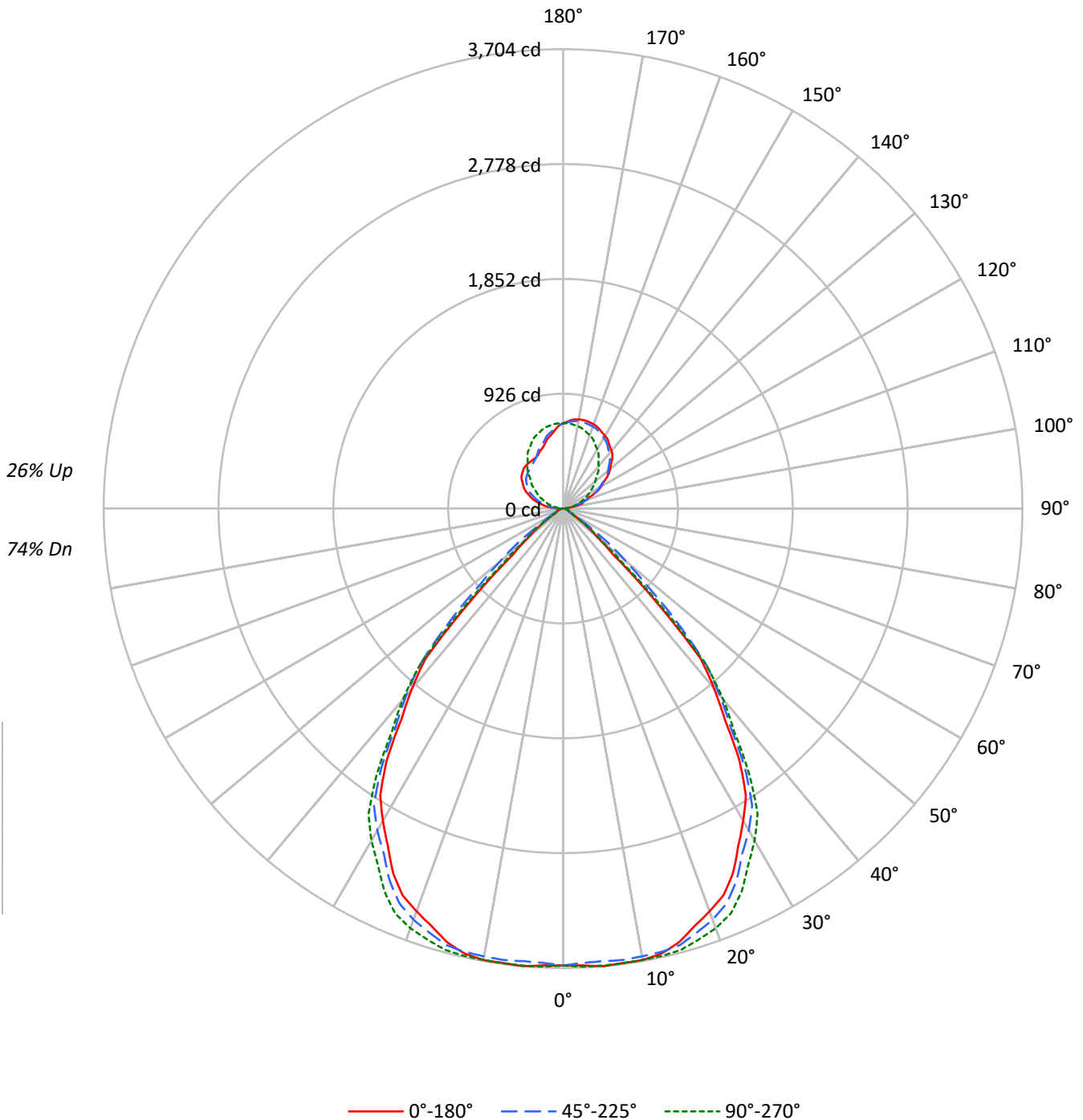
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	106	102	99	97	101	98	95	93	89	87	85	81	79	78	73	72	71	68
2	99	93	88	84	94	89	84	81	81	78	75	74	72	70	68	66	64	61
3	92	84	78	73	88	81	75	71	74	70	67	68	65	62	63	60	58	55
4	86	77	70	65	82	74	68	63	68	63	60	63	59	56	58	55	53	50
5	80	70	63	58	76	67	61	56	63	58	54	58	54	51	54	51	48	46
6	75	64	57	52	71	62	56	51	58	52	48	54	49	46	50	47	44	42
7	70	59	52	47	67	57	51	46	53	48	44	50	45	42	47	43	40	38
8	66	54	47	43	63	53	46	42	49	44	40	46	42	38	43	40	37	35
9	62	50	44	39	59	49	43	38	46	41	37	43	39	35	41	37	34	32
10	58	47	40	36	56	45	39	35	43	37	34	40	36	33	38	34	31	30

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	4.5
10°-20°	1028.8	13.2
20°-30°	1520.9	19.6
30°-40°	1571.5	20.2
40°-50°	945.6	12.2
50°-60°	227.0	2.9
60°-70°	62.0	0.8
70°-80°	34.6	0.4
80°-90°	13.7	0.2
90°-100°	54.9	0.7
100°-110°	159.9	2.1
110°-120°	260.7	3.4
120°-130°	331.0	4.3
130°-140°	354.0	4.6
140°-150°	330.6	4.3
150°-160°	272.2	3.5
160°-170°	182.5	2.3
170°-180°	64.8	0.8
0°-30°	2901.6	37.4
0°-40°	4473.1	57.6
0°-60°	5645.7	72.7
0°-90°	5756.1	74.1
90°-120°	475.5	6.1
90°-150°	1491.1	19.2
90°-180°	2011.0	25.9
0°-180°	7766.7	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°	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°	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°	5.5	5.9	6.2	6.3	6.1	6.1	5.7	5.1	4.4	3.8	4.4
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°	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°	4.9	5.7	6.8	7.8	8.7	9.0	9.0	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: P709348

CATALOG NUMBER: DL2W-WB-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)