

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P880540

Luminaire Tested: **LD4C100D010 EU41009040 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)
Test Lab: INNOVATION CENTER
Issue Date: 10/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009040 4LBDWNH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

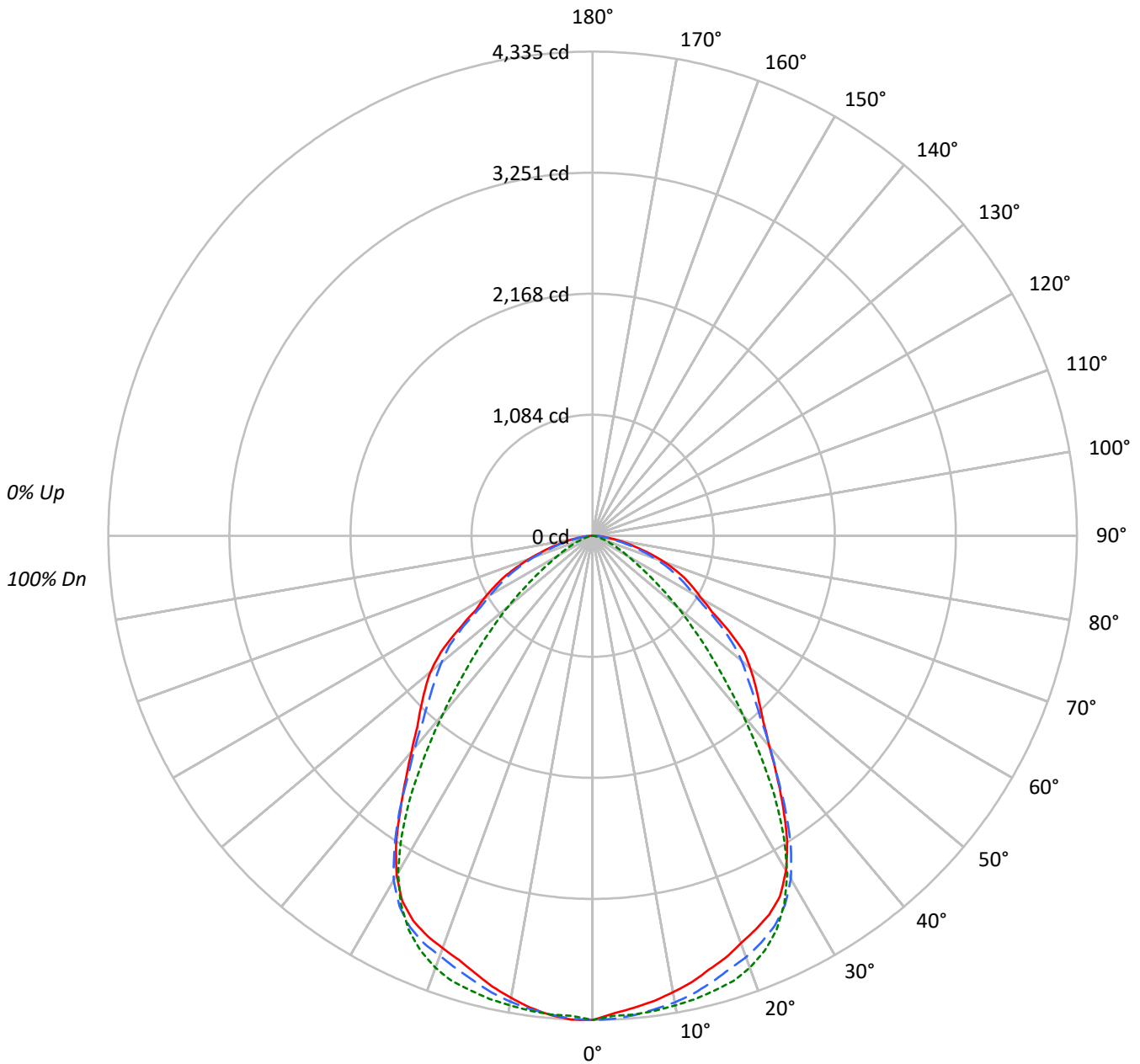
Lumens per Lamp: N/A
Luminaire Lumens: 8823.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V): NR
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: 25 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									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51																			
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41																			
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37																			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34																			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	532594	532594	532594
5°	523147	530534	531336
10°	517532	532527	524182
15°	511522	536094	515757
20°	507459	538026	513578
25°	507202	527996	515321
30°	491045	493896	497684
35°	446120	425153	450124
40°	394696	334764	404302
45°	366159	254913	377783
50°	351844	188699	362031
55°	318563	130034	314257
60°	276961	88479	275339
65°	267557	64040	253981
70°	241921	43176	215556
75°	199361	28433	170928
80°	160458	18890	127418
85°	131796	9303	84434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	4.6
10°-20°	1170.1	13.3
20°-30°	1767.8	20.0
30°-40°	1850.0	21.0
40°-50°	1498.4	17.0
50°-60°	1089.9	12.4
60°-70°	672.2	7.6
70°-80°	303.7	3.4
80°-90°	61.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3347.1	37.9
0°-40°	5197.2	58.9
0°-60°	7785.4	88.2
0°-90°	8823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8823.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4335	4335	4335	4335	4335	
5°	4242	4308	4302	4302	4308	402
15°	4022	4135	4215	4122	4055	1137
25°	3742	3855	3895	3868	3802	1715
35°	2975	3015	2835	3015	3001	1854
45°	2108	2041	1467	2068	2174	1638
55°	1487	1394	607	1407	1467	1327
65°	920	827	220	814	874	901
75°	420	360	60	313	360	456
85°	94	73	7	53	60	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	4281.9	4281.9	4322.1	4368.4	4328.6	4288.4	4315.1	4302.0	4348.7	4348.7	4328.6
5°	4242.1	4255.2	4288.4	4328.6	4295.4	4255.2	4288.4	4275.3	4322.1	4322.1	4308.5
7.5°	4201.9	4208.5	4248.7	4295.4	4261.8	4222.0	4248.7	4242.1	4281.9	4288.4	4275.3
10°	4148.6	4155.1	4195.3	4242.1	4208.5	4175.2	4201.9	4195.3	4248.7	4248.7	4242.1
12.5°	4095.2	4101.8	4142.0	4181.8	4148.6	4115.3	4142.0	4142.0	4195.3	4201.9	4195.3
15°	4021.8	4035.0	4068.6	4108.4	4088.7	4048.5	4075.1	4075.1	4121.9	4135.0	4135.0
17.5°	3961.9	3968.5	4001.7	4041.9	4015.3	3981.6	4008.3	4008.3	4055.1	4068.6	4068.6
20°	3881.5	3895.1	3928.3	3968.5	3948.4	3921.7	3941.8	3941.8	3995.2	4008.3	4015.3
22.5°	3815.1	3828.2	3854.9	3908.6	3875.0	3854.9	3881.5	3875.0	3935.3	3941.8	3941.8
25°	3741.7	3755.2	3788.4	3821.7	3801.6	3781.9	3801.6	3801.6	3848.3	3854.9	3854.9
27.5°	3635.0	3641.6	3674.8	3708.4	3688.3	3661.7	3688.3	3681.8	3728.1	3735.1	3728.1
30°	3461.5	3475.1	3488.2	3534.9	3514.8	3494.7	3521.4	3508.3	3555.0	3555.0	3548.1
32.5°	3241.3	3241.3	3268.3	3301.5	3274.9	3261.4	3281.4	3288.0	3321.6	3321.6	3301.5
35°	2974.6	2988.2	3007.9	3028.0	3007.9	2994.7	3014.8	3007.9	3048.1	3034.5	3014.8
37.5°	2708.0	2714.6	2734.7	2761.3	2734.7	2714.6	2721.1	2714.6	2747.8	2747.8	2714.6
40°	2461.1	2474.6	2487.7	2514.4	2487.7	2474.6	2481.2	2461.1	2501.3	2487.7	2467.6
42.5°	2260.9	2267.5	2287.6	2301.1	2274.5	2267.5	2274.5	2260.9	2281.0	2267.5	2227.7
45°	2107.5	2107.5	2114.5	2134.2	2107.5	2100.9	2100.9	2087.4	2107.5	2080.8	2041.1
47.5°	1974.2	1980.8	1987.7	2000.9	1980.8	1961.1	1967.6	1941.0	1954.1	1934.0	1880.7
50°	1840.9	1854.0	1861.0	1874.1	1854.0	1840.9	1847.5	1820.8	1820.8	1787.6	1740.8
52.5°	1707.6	1714.1	1707.6	1720.7	1707.6	1687.5	1694.0	1667.4	1667.4	1627.6	1580.8
55°	1487.3	1493.9	1500.9	1514.0	1500.9	1480.8	1493.9	1474.2	1474.2	1447.1	1393.8
57.5°	1267.0	1274.0	1280.6	1287.1	1287.1	1274.0	1280.6	1267.0	1260.5	1240.4	1200.6
60°	1127.2	1127.2	1127.2	1133.7	1127.2	1120.6	1120.6	1107.1	1107.1	1080.4	1040.6
62.5°	1020.5	1027.1	1027.1	1033.7	1027.1	1020.5	1014.0	1000.4	993.9	967.2	933.6
65°	920.4	920.4	913.9	927.0	920.4	913.9	913.9	900.3	887.2	860.6	826.9
67.5°	800.3	806.8	800.3	806.8	806.8	800.3	793.7	780.2	773.6	753.5	713.7
70°	673.5	673.5	673.5	680.5	673.5	673.5	680.5	660.4	653.8	626.8	593.5
72.5°	546.8	553.7	553.7	546.8	553.7	540.2	540.2	540.2	533.6	507.0	473.3
75°	420.0	427.0	427.0	433.6	427.0	420.0	420.0	413.5	406.9	386.8	360.1
77.5°	313.4	313.4	319.9	319.9	319.9	313.4	313.4	300.3	300.3	286.7	260.1
80°	226.8	226.8	220.3	226.8	226.8	220.3	220.3	213.3	213.3	200.2	180.1
82.5°	146.8	153.4	153.4	153.4	153.4	146.8	146.8	146.8	139.9	133.3	120.2
85°	93.5	93.5	93.5	93.5	100.1	93.5	100.1	93.5	93.5	80.0	73.4
87.5°	40.2	40.2	40.2	46.8	46.8	40.2	40.2	40.2	40.2	40.2	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	4328.6	4335.2	4315.1	4341.8	4322.1	4328.6	4335.2	4328.6	4302.0	4302.0	4375.4
5°	4302.0	4315.1	4295.4	4328.6	4315.1	4315.1	4328.6	4322.1	4295.4	4302.0	4368.4
7.5°	4275.3	4295.4	4281.9	4315.1	4295.4	4295.4	4308.5	4308.5	4281.9	4288.4	4348.7
10°	4235.1	4261.8	4255.2	4288.4	4268.8	4268.8	4288.4	4288.4	4261.8	4268.8	4328.6
12.5°	4201.9	4228.6	4222.0	4255.2	4242.1	4248.7	4255.2	4268.8	4235.1	4248.7	4302.0
15°	4148.6	4175.2	4175.2	4208.5	4195.3	4208.5	4222.0	4242.1	4215.0	4215.0	4268.8
17.5°	4088.7	4121.9	4121.9	4148.6	4148.6	4155.1	4181.8	4201.9	4175.2	4181.8	4228.6
20°	4021.8	4062.0	4062.0	4095.2	4088.7	4101.8	4121.9	4142.0	4115.3	4115.3	4168.7
22.5°	3955.0	3988.6	3995.2	4015.3	4015.3	4021.8	4041.9	4055.1	4021.8	4021.8	4075.1
25°	3861.9	3895.1	3901.6	3915.2	3901.6	3901.6	3915.2	3928.3	3895.1	3895.1	3941.8
27.5°	3735.1	3768.3	3768.3	3761.8	3748.2	3755.2	3748.2	3755.2	3721.6	3715.0	3761.8
30°	3548.1	3568.2	3568.2	3561.6	3541.5	3541.5	3521.4	3528.4	3481.6	3481.6	3521.4
32.5°	3295.0	3314.7	3301.5	3288.0	3261.4	3248.2	3234.7	3228.1	3181.4	3181.4	3228.1
35°	2994.7	3007.9	2988.2	2961.5	2927.9	2907.8	2888.1	2861.4	2827.8	2834.8	2861.4
37.5°	2687.9	2687.9	2661.3	2607.9	2581.3	2547.6	2514.4	2514.4	2461.1	2454.5	2474.6
40°	2427.9	2401.2	2354.4	2281.0	2234.3	2201.0	2154.3	2127.6	2087.4	2087.4	2121.0
42.5°	2194.5	2141.1	2080.8	1980.8	1934.0	1894.2	1834.3	1807.7	1760.9	1753.9	1774.0
45°	1987.7	1934.0	1847.5	1740.8	1680.9	1634.2	1547.2	1514.0	1474.2	1467.2	1480.8
47.5°	1820.8	1760.9	1654.3	1514.0	1454.1	1393.8	1307.2	1260.5	1227.3	1207.2	1227.3
50°	1673.9	1594.0	1480.8	1333.9	1253.9	1200.6	1094.0	1047.2	1000.4	987.3	993.9
52.5°	1514.0	1434.0	1313.8	1160.4	1087.0	1007.0	906.9	840.5	800.3	780.2	800.3
55°	1340.5	1260.5	1140.7	987.3	906.9	833.9	726.8	673.5	626.8	607.1	626.8
57.5°	1153.8	1080.4	973.8	820.4	746.9	680.5	580.4	527.1	480.3	466.8	480.3
60°	993.9	933.6	826.9	680.5	620.2	546.8	460.2	406.9	366.7	360.1	366.7
62.5°	887.2	820.4	720.3	580.4	520.1	460.2	380.2	326.9	293.3	286.7	293.3
65°	780.2	707.2	613.6	493.4	433.6	386.8	306.8	260.1	226.8	220.3	226.8
67.5°	660.4	593.5	513.5	406.9	360.1	313.4	246.9	200.2	173.5	166.9	173.5
70°	546.8	486.9	406.9	326.9	280.2	246.9	186.6	153.4	126.7	120.2	126.7
72.5°	433.6	380.2	313.4	246.9	220.3	186.6	146.8	113.2	93.5	86.5	93.5
75°	333.5	293.3	240.0	180.1	160.0	139.9	100.1	80.0	66.9	59.9	66.9
77.5°	233.4	206.7	166.9	133.3	113.2	100.1	73.4	53.3	46.8	40.2	46.8
80°	160.0	139.9	113.2	86.5	73.4	59.9	46.8	33.2	26.7	26.7	26.7
82.5°	106.6	86.5	66.9	53.3	46.8	40.2	26.7	20.1	20.1	13.5	13.5
85°	59.9	53.3	40.2	33.2	26.7	20.1	13.5	13.5	6.6	6.6	6.6
87.5°	26.7	20.1	13.5	13.5	6.6	6.6	6.6	6.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	4355.3	4335.2	4361.9	4335.2	4322.1	4335.2	4322.1	4361.9	4328.6	4302.0	4328.6
5°	4348.7	4322.1	4348.7	4328.6	4308.5	4315.1	4302.0	4341.8	4302.0	4281.9	4295.4
7.5°	4335.2	4315.1	4328.6	4308.5	4288.4	4295.4	4281.9	4315.1	4275.3	4255.2	4268.8
10°	4315.1	4295.4	4302.0	4288.4	4268.8	4268.8	4255.2	4281.9	4235.1	4208.5	4222.0
12.5°	4288.4	4261.8	4275.3	4255.2	4228.6	4228.6	4215.0	4235.1	4188.4	4161.7	4168.7
15°	4255.2	4228.6	4228.6	4208.5	4181.8	4181.8	4155.1	4175.2	4121.9	4095.2	4095.2
17.5°	4215.0	4181.8	4181.8	4161.7	4128.5	4121.9	4101.8	4121.9	4062.0	4035.0	4035.0
20°	4155.1	4128.5	4121.9	4108.4	4075.1	4068.6	4041.9	4048.5	4001.7	3981.6	3975.1
22.5°	4075.1	4048.5	4055.1	4035.0	4008.3	4001.7	3975.1	3995.2	3948.4	3928.3	3935.3
25°	3935.3	3921.7	3935.3	3928.3	3908.6	3908.6	3895.1	3908.6	3868.4	3854.9	3861.9
27.5°	3774.9	3768.3	3774.9	3774.9	3761.8	3761.8	3761.8	3781.9	3741.7	3735.1	3735.1
30°	3541.5	3541.5	3548.1	3555.0	3555.0	3568.2	3561.6	3588.3	3561.6	3548.1	3561.6
32.5°	3234.7	3261.4	3281.4	3281.4	3281.4	3295.0	3308.1	3328.2	3301.5	3308.1	3308.1
35°	2888.1	2907.8	2921.3	2954.5	2934.8	2981.2	2994.7	3021.4	3014.8	3028.0	3021.4
37.5°	2501.3	2527.9	2554.6	2601.4	2594.4	2647.7	2674.4	2727.7	2714.6	2741.2	2754.4
40°	2141.1	2180.9	2221.1	2254.4	2281.0	2334.3	2387.7	2454.5	2474.6	2494.3	2501.3
42.5°	1794.1	1834.3	1900.8	1947.5	1987.7	2074.3	2147.7	2227.7	2247.8	2287.6	2301.1
45°	1514.0	1547.2	1627.6	1687.5	1720.7	1847.5	1934.0	2034.1	2067.7	2114.5	2134.2
47.5°	1253.9	1313.8	1393.8	1467.2	1514.0	1647.3	1760.9	1867.6	1914.3	1967.6	1994.3
50°	1027.1	1094.0	1200.6	1267.0	1333.9	1480.8	1607.5	1720.7	1767.5	1827.4	1854.0
52.5°	840.5	913.9	1014.0	1087.0	1160.4	1313.8	1447.1	1554.2	1614.1	1654.3	1694.0
55°	660.4	740.4	840.5	920.4	980.3	1147.3	1260.5	1367.1	1407.3	1440.6	1460.7
57.5°	513.5	573.4	673.5	740.4	813.8	960.2	1073.9	1153.8	1187.1	1227.3	1240.4
60°	400.3	460.2	553.7	620.2	687.1	826.9	940.5	1020.5	1053.8	1087.0	1107.1
62.5°	319.9	380.2	466.8	527.1	587.0	713.7	813.8	893.8	933.6	967.2	987.3
65°	253.5	306.8	380.2	440.1	486.9	600.1	700.2	773.6	813.8	847.0	867.1
67.5°	200.2	246.9	313.4	353.6	400.3	493.4	580.4	646.9	680.5	720.3	740.4
70°	153.4	186.6	246.9	280.2	313.4	393.4	460.2	527.1	560.3	587.0	600.1
72.5°	113.2	139.9	186.6	213.3	233.4	300.3	353.6	400.3	427.0	453.7	466.8
75°	80.0	100.1	133.3	153.4	166.9	213.3	260.1	293.3	313.4	333.5	353.6
77.5°	53.3	66.9	86.5	100.1	113.2	146.8	173.5	200.2	220.3	240.0	246.9
80°	33.2	46.8	59.9	66.9	73.4	93.5	120.2	133.3	146.8	160.0	166.9
82.5°	20.1	26.7	33.2	40.2	46.8	59.9	73.4	86.5	93.5	106.6	113.2
85°	6.6	13.5	13.5	20.1	20.1	33.2	40.2	46.8	53.3	59.9	66.9
87.5°	0.0	0.0	6.6	6.6	6.6	6.6	13.5	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P880540

CATALOG NUMBER: LD4C100D010 EU41009040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2	4335.2
2.5°	4355.3	4335.2	4322.1	4315.1	4361.9	4302.0	4328.6	4335.2
5°	4328.6	4308.5	4295.4	4288.4	4328.6	4275.3	4295.4	4308.5
7.5°	4288.4	4275.3	4255.2	4248.7	4288.4	4228.6	4255.2	4261.8
10°	4242.1	4222.0	4208.5	4201.9	4235.1	4175.2	4201.9	4201.9
12.5°	4181.8	4168.7	4142.0	4142.0	4168.7	4115.3	4135.0	4135.0
15°	4101.8	4088.7	4062.0	4062.0	4088.7	4035.0	4055.1	4055.1
17.5°	4035.0	4021.8	4001.7	3995.2	4021.8	3968.5	3988.6	3981.6
20°	3981.6	3968.5	3941.8	3941.8	3961.9	3908.6	3928.3	3928.3
22.5°	3935.3	3928.3	3901.6	3901.6	3928.3	3875.0	3888.5	3875.0
25°	3861.9	3854.9	3828.2	3835.2	3848.3	3795.0	3815.1	3801.6
27.5°	3741.7	3741.7	3715.0	3708.4	3728.1	3681.8	3694.9	3688.3
30°	3555.0	3561.6	3528.4	3528.4	3534.9	3494.7	3514.8	3508.3
32.5°	3301.5	3308.1	3281.4	3274.9	3295.0	3261.4	3274.9	3274.9
35°	3021.4	3028.0	3007.9	3007.9	3028.0	3007.9	3007.9	3001.3
37.5°	2741.2	2754.4	2741.2	2747.8	2761.3	2741.2	2754.4	2747.8
40°	2514.4	2527.9	2507.8	2521.0	2534.5	2514.4	2534.5	2521.0
42.5°	2307.7	2327.8	2314.2	2327.8	2340.9	2327.8	2340.9	2321.2
45°	2154.3	2167.8	2160.8	2167.8	2180.9	2174.4	2180.9	2174.4
47.5°	2007.4	2034.1	2021.0	2034.1	2054.2	2041.1	2054.2	2034.1
50°	1874.1	1894.2	1887.7	1900.8	1907.3	1900.8	1914.3	1894.2
52.5°	1700.6	1720.7	1714.1	1714.1	1727.3	1714.1	1727.3	1714.1
55°	1474.2	1480.8	1480.8	1487.3	1480.8	1474.2	1480.8	1467.2
57.5°	1253.9	1267.0	1247.4	1267.0	1260.5	1253.9	1253.9	1240.4
60°	1113.6	1133.7	1120.6	1133.7	1127.2	1127.2	1127.2	1120.6
62.5°	1000.4	1014.0	1000.4	1007.0	1007.0	1007.0	1000.4	993.9
65°	873.7	893.8	880.2	887.2	880.2	873.7	880.2	873.7
67.5°	746.9	753.5	753.5	746.9	746.9	746.9	746.9	733.8
70°	607.1	613.6	607.1	620.2	613.6	607.1	613.6	600.1
72.5°	473.3	480.3	473.3	480.3	473.3	473.3	473.3	473.3
75°	353.6	360.1	360.1	360.1	360.1	360.1	347.0	360.1
77.5°	253.5	253.5	253.5	260.1	253.5	253.5	253.5	253.5
80°	173.5	173.5	173.5	180.1	173.5	180.1	173.5	180.1
82.5°	113.2	113.2	113.2	113.2	113.2	113.2	113.2	113.2
85°	59.9	66.9	66.9	59.9	59.9	59.9	59.9	59.9
87.5°	13.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)