

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: P880541

Luminaire Tested: **LD4C100D010 EU41009050 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: P880541  
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 EU41009050 4LBDWNH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

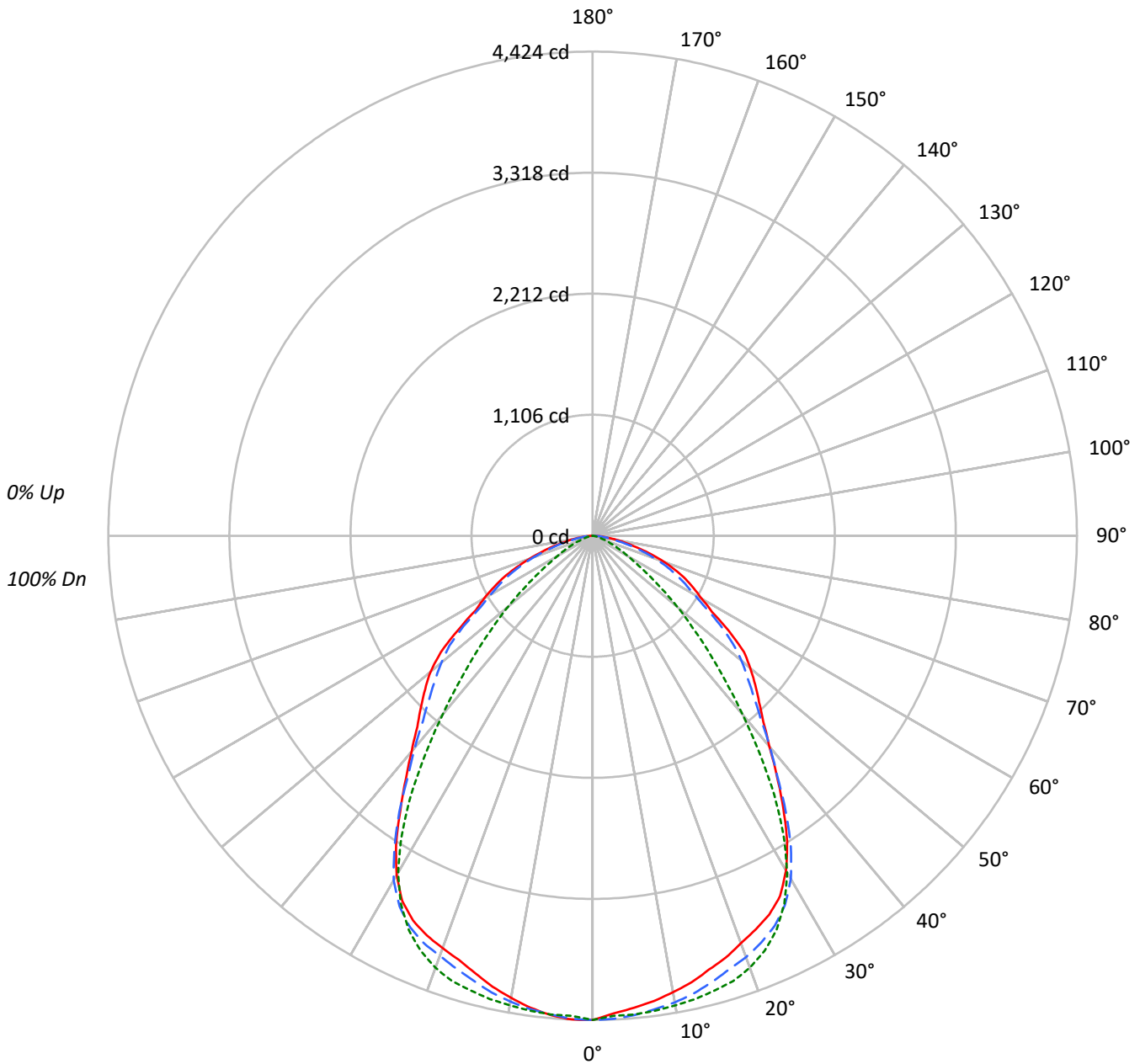
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9004.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 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°	543516	543516	543516
5°	533877	541412	542238
10°	528149	543443	534935
15°	522015	547096	526326
20°	517879	549073	524115
25°	517599	538826	525881
30°	501117	504025	507898
35°	455283	433867	459363
40°	402795	341628	412594
45°	373665	260142	385531
50°	359069	192579	369466
55°	325095	132690	320704
60°	282637	90297	280990
65°	273051	65348	259185
70°	246878	44038	219974
75°	203443	29002	174441
80°	163783	19244	130036
85°	134474	9444	86126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.6	4.6
10°-20°	1194.1	13.3
20°-30°	1804.1	20.0
30°-40°	1888.0	21.0
40°-50°	1529.1	17.0
50°-60°	1112.2	12.4
60°-70°	686.0	7.6
70°-80°	309.9	3.4
80°-90°	63.0	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°	3415.8	37.9
0°-40°	5303.8	58.9
0°-60°	7945.1	88.2
0°-90°	9004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4424	4424	4424	4424	4424	
5°	4329	4397	4390	4390	4397	411
15°	4104	4220	4302	4206	4138	1160
25°	3818	3934	3975	3948	3880	1750
35°	3036	3077	2893	3077	3063	1892
45°	2151	2083	1497	2110	2219	1672
55°	1518	1422	620	1436	1497	1354
65°	939	844	225	830	892	919
75°	429	368	61	320	368	465
85°	95	75	7	54	61	109
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°	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1
2.5°	4369.7	4369.7	4410.7	4458.0	4417.4	4376.4	4403.6	4390.2	4438.0	4438.0	4417.4
5°	4329.1	4342.5	4376.4	4417.4	4383.5	4342.5	4376.4	4363.0	4410.7	4410.7	4396.9
7.5°	4288.1	4294.8	4335.8	4383.5	4349.2	4308.6	4335.8	4329.1	4369.7	4376.4	4363.0
10°	4233.7	4240.4	4281.4	4329.1	4294.8	4260.9	4288.1	4281.4	4335.8	4335.8	4329.1
12.5°	4179.3	4186.0	4227.0	4267.6	4233.7	4199.8	4227.0	4227.0	4281.4	4288.1	4281.4
15°	4104.3	4117.7	4152.1	4192.7	4172.6	4131.5	4158.7	4158.7	4206.5	4219.9	4219.9
17.5°	4043.2	4049.9	4083.8	4124.8	4097.6	4063.3	4090.5	4090.5	4138.2	4152.1	4152.1
20°	3961.2	3975.0	4008.9	4049.9	4029.4	4002.2	4022.7	4022.7	4077.1	4090.5	4097.6
22.5°	3893.4	3906.8	3934.0	3988.8	3954.5	3934.0	3961.2	3954.5	4016.0	4022.7	4022.7
25°	3818.4	3832.2	3866.2	3900.1	3879.5	3859.5	3879.5	3879.5	3927.3	3934.0	3934.0
27.5°	3709.6	3716.3	3750.2	3784.5	3764.0	3736.8	3764.0	3757.3	3804.6	3811.7	3804.6
30°	3532.5	3546.3	3559.7	3607.5	3586.9	3566.4	3593.6	3580.3	3628.0	3628.0	3620.9
32.5°	3307.7	3307.7	3335.4	3369.3	3342.1	3328.3	3348.8	3355.5	3389.8	3389.8	3369.3
35°	3035.7	3049.5	3069.6	3090.1	3069.6	3056.2	3076.7	3069.6	3110.6	3096.8	3076.7
37.5°	2763.6	2770.3	2790.8	2818.0	2790.8	2770.3	2777.0	2770.3	2804.2	2804.2	2770.3
40°	2511.6	2525.4	2538.8	2566.0	2538.8	2525.4	2532.1	2511.6	2552.6	2538.8	2518.3
42.5°	2307.3	2314.0	2334.5	2348.3	2321.1	2314.0	2321.1	2307.3	2327.8	2314.0	2273.4
45°	2150.7	2150.7	2157.9	2178.0	2150.7	2144.0	2144.0	2130.2	2150.7	2123.5	2082.9
47.5°	2014.7	2021.4	2028.5	2041.9	2021.4	2001.3	2008.0	1980.8	1994.2	1973.7	1919.3
50°	1878.7	1892.1	1899.2	1912.6	1892.1	1878.7	1885.4	1858.1	1858.1	1824.2	1776.5
52.5°	1742.6	1749.3	1742.6	1756.0	1742.6	1722.1	1728.8	1701.6	1701.6	1661.0	1613.3
55°	1517.8	1524.5	1531.6	1545.0	1531.6	1511.1	1524.5	1504.4	1504.4	1476.8	1422.4
57.5°	1293.0	1300.2	1306.9	1313.6	1313.6	1300.2	1306.9	1293.0	1286.3	1265.8	1225.2
60°	1150.3	1150.3	1150.3	1157.0	1150.3	1143.6	1143.6	1129.8	1129.8	1102.6	1062.0
62.5°	1041.5	1048.2	1048.2	1054.9	1048.2	1041.5	1034.8	1021.0	1014.3	987.0	952.7
65°	939.3	939.3	932.6	946.0	939.3	932.6	932.6	918.8	905.4	878.2	843.9
67.5°	816.7	823.4	816.7	823.4	823.4	816.7	810.0	796.2	789.5	769.0	728.4
70°	687.3	687.3	687.3	694.5	687.3	687.3	694.5	673.9	667.2	639.6	605.7
72.5°	558.0	565.1	565.1	558.0	565.1	551.3	551.3	551.3	544.6	517.4	483.1
75°	428.6	435.8	435.8	442.5	435.8	428.6	428.6	421.9	415.2	394.7	367.5
77.5°	319.8	319.8	326.5	326.5	326.5	319.8	319.8	306.4	306.4	292.6	265.4
80°	231.5	231.5	224.8	231.5	231.5	224.8	224.8	217.7	217.7	204.3	183.8
82.5°	149.9	156.6	156.6	156.6	156.6	149.9	149.9	149.9	142.7	136.0	122.6
85°	95.4	95.4	95.4	95.4	102.1	95.4	102.1	95.4	95.4	81.6	74.9
87.5°	41.0	41.0	41.0	47.7	47.7	41.0	41.0	41.0	41.0	41.0	33.9
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°	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1
2.5°	4417.4	4424.1	4403.6	4430.8	4410.7	4417.4	4424.1	4417.4	4390.2	4390.2	4465.2
5°	4390.2	4403.6	4383.5	4417.4	4403.6	4403.6	4417.4	4410.7	4383.5	4390.2	4458.0
7.5°	4363.0	4383.5	4369.7	4403.6	4383.5	4383.5	4396.9	4396.9	4369.7	4376.4	4438.0
10°	4322.0	4349.2	4342.5	4376.4	4356.3	4356.3	4376.4	4376.4	4349.2	4356.3	4417.4
12.5°	4288.1	4315.3	4308.6	4342.5	4329.1	4335.8	4342.5	4356.3	4322.0	4335.8	4390.2
15°	4233.7	4260.9	4260.9	4294.8	4281.4	4294.8	4308.6	4329.1	4301.5	4301.5	4356.3
17.5°	4172.6	4206.5	4206.5	4233.7	4233.7	4240.4	4267.6	4288.1	4260.9	4267.6	4315.3
20°	4104.3	4145.4	4145.4	4179.3	4172.6	4186.0	4206.5	4227.0	4199.8	4199.8	4254.2
22.5°	4036.1	4070.4	4077.1	4097.6	4097.6	4104.3	4124.8	4138.2	4104.3	4104.3	4158.7
25°	3941.1	3975.0	3981.7	3995.5	3981.7	3981.7	3995.5	4008.9	3975.0	3975.0	4022.7
27.5°	3811.7	3845.6	3845.6	3838.9	3825.1	3832.2	3825.1	3832.2	3797.9	3791.2	3838.9
30°	3620.9	3641.4	3641.4	3634.7	3614.2	3614.2	3593.6	3600.8	3553.0	3553.0	3593.6
32.5°	3362.6	3382.7	3369.3	3355.5	3328.3	3314.9	3301.0	3294.3	3246.6	3246.6	3294.3
35°	3056.2	3069.6	3049.5	3022.3	2987.9	2967.4	2947.3	2920.1	2885.8	2892.9	2920.1
37.5°	2743.1	2743.1	2715.8	2661.4	2634.2	2599.9	2566.0	2566.0	2511.6	2504.9	2525.4
40°	2477.7	2450.5	2402.7	2327.8	2280.1	2246.2	2198.5	2171.3	2130.2	2130.2	2164.6
42.5°	2239.5	2185.1	2123.5	2021.4	1973.7	1933.1	1872.0	1844.8	1797.0	1789.9	1810.4
45°	2028.5	1973.7	1885.4	1776.5	1715.4	1667.7	1578.9	1545.0	1504.4	1497.3	1511.1
47.5°	1858.1	1797.0	1688.2	1545.0	1483.9	1422.4	1334.1	1286.3	1252.4	1231.9	1252.4
50°	1708.3	1626.7	1511.1	1361.3	1279.6	1225.2	1116.4	1068.7	1021.0	1007.6	1014.3
52.5°	1545.0	1463.4	1340.8	1184.2	1109.3	1027.7	925.5	857.7	816.7	796.2	816.7
55°	1368.0	1286.3	1164.1	1007.6	925.5	851.0	741.8	687.3	639.6	619.5	639.6
57.5°	1177.5	1102.6	993.7	837.2	762.3	694.5	592.3	537.9	490.2	476.4	490.2
60°	1014.3	952.7	843.9	694.5	632.9	558.0	469.7	415.2	374.2	367.5	374.2
62.5°	905.4	837.2	735.1	592.3	530.8	469.7	388.0	333.6	299.3	292.6	299.3
65°	796.2	721.7	626.2	503.6	442.5	394.7	313.1	265.4	231.5	224.8	231.5
67.5°	673.9	605.7	524.1	415.2	367.5	319.8	252.0	204.3	177.1	170.4	177.1
70°	558.0	496.9	415.2	333.6	285.9	252.0	190.5	156.6	129.3	122.6	129.3
72.5°	442.5	388.0	319.8	252.0	224.8	190.5	149.9	115.5	95.4	88.3	95.4
75°	340.3	299.3	244.9	183.8	163.3	142.7	102.1	81.6	68.2	61.1	68.2
77.5°	238.2	211.0	170.4	136.0	115.5	102.1	74.9	54.4	47.7	41.0	47.7
80°	163.3	142.7	115.5	88.3	74.9	61.1	47.7	33.9	27.2	27.2	27.2
82.5°	108.8	88.3	68.2	54.4	47.7	41.0	27.2	20.5	20.5	13.8	13.8
85°	61.1	54.4	41.0	33.9	27.2	20.5	13.8	13.8	6.7	6.7	6.7
87.5°	27.2	20.5	13.8	13.8	6.7	6.7	6.7	6.7	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°	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1
2.5°	4444.7	4424.1	4451.3	4424.1	4410.7	4424.1	4410.7	4451.3	4417.4	4390.2	4417.4
5°	4438.0	4410.7	4438.0	4417.4	4396.9	4403.6	4390.2	4430.8	4390.2	4369.7	4383.5
7.5°	4424.1	4403.6	4417.4	4396.9	4376.4	4383.5	4369.7	4403.6	4363.0	4342.5	4356.3
10°	4403.6	4383.5	4390.2	4376.4	4356.3	4356.3	4342.5	4369.7	4322.0	4294.8	4308.6
12.5°	4376.4	4349.2	4363.0	4342.5	4315.3	4315.3	4301.5	4322.0	4274.3	4247.1	4254.2
15°	4342.5	4315.3	4315.3	4294.8	4267.6	4267.6	4240.4	4260.9	4206.5	4179.3	4179.3
17.5°	4301.5	4267.6	4267.6	4247.1	4213.2	4206.5	4186.0	4206.5	4145.4	4117.7	4117.7
20°	4240.4	4213.2	4206.5	4192.7	4158.7	4152.1	4124.8	4131.5	4083.8	4063.3	4056.6
22.5°	4158.7	4131.5	4138.2	4117.7	4090.5	4083.8	4056.6	4077.1	4029.4	4008.9	4016.0
25°	4016.0	4002.2	4016.0	4008.9	3988.8	3988.8	3975.0	3988.8	3947.8	3934.0	3941.1
27.5°	3852.3	3845.6	3852.3	3852.3	3838.9	3838.9	3838.9	3859.5	3818.4	3811.7	3811.7
30°	3614.2	3614.2	3620.9	3628.0	3628.0	3641.4	3634.7	3661.9	3634.7	3620.9	3634.7
32.5°	3301.0	3328.3	3348.8	3348.8	3348.8	3362.6	3376.0	3396.5	3369.3	3376.0	3376.0
35°	2947.3	2967.4	2981.2	3015.1	2995.1	3042.4	3056.2	3083.4	3076.7	3090.1	3083.4
37.5°	2552.6	2579.8	2607.0	2654.7	2647.6	2702.0	2729.2	2783.7	2770.3	2797.5	2810.9
40°	2185.1	2225.7	2266.7	2300.6	2327.8	2382.2	2436.6	2504.9	2525.4	2545.5	2552.6
42.5°	1830.9	1872.0	1939.8	1987.5	2028.5	2116.8	2191.8	2273.4	2293.9	2334.5	2348.3
45°	1545.0	1578.9	1661.0	1722.1	1756.0	1885.4	1973.7	2075.8	2110.1	2157.9	2178.0
47.5°	1279.6	1340.8	1422.4	1497.3	1545.0	1681.1	1797.0	1905.9	1953.6	2008.0	2035.2
50°	1048.2	1116.4	1225.2	1293.0	1361.3	1511.1	1640.5	1756.0	1803.7	1864.8	1892.1
52.5°	857.7	932.6	1034.8	1109.3	1184.2	1340.8	1476.8	1586.1	1647.2	1688.2	1728.8
55°	673.9	755.6	857.7	939.3	1000.4	1170.8	1286.3	1395.2	1436.2	1470.1	1490.6
57.5°	524.1	585.2	687.3	755.6	830.5	979.9	1095.9	1177.5	1211.4	1252.4	1265.8
60°	408.5	469.7	565.1	632.9	701.1	843.9	959.8	1041.5	1075.4	1109.3	1129.8
62.5°	326.5	388.0	476.4	537.9	599.0	728.4	830.5	912.1	952.7	987.0	1007.6
65°	258.7	313.1	388.0	449.2	496.9	612.4	714.5	789.5	830.5	864.4	884.9
67.5°	204.3	252.0	319.8	360.8	408.5	503.6	592.3	660.1	694.5	735.1	755.6
70°	156.6	190.5	252.0	285.9	319.8	401.4	469.7	537.9	571.8	599.0	612.4
72.5°	115.5	142.7	190.5	217.7	238.2	306.4	360.8	408.5	435.8	463.0	476.4
75°	81.6	102.1	136.0	156.6	170.4	217.7	265.4	299.3	319.8	340.3	360.8
77.5°	54.4	68.2	88.3	102.1	115.5	149.9	177.1	204.3	224.8	244.9	252.0
80°	33.9	47.7	61.1	68.2	74.9	95.4	122.6	136.0	149.9	163.3	170.4
82.5°	20.5	27.2	33.9	41.0	47.7	61.1	74.9	88.3	95.4	108.8	115.5
85°	6.7	13.8	13.8	20.5	20.5	33.9	41.0	47.7	54.4	61.1	68.2
87.5°	0.0	0.0	6.7	6.7	6.7	6.7	13.8	13.8	13.8	13.8	13.8
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: P880541

CATALOG NUMBER: LD4C100D010 EU41009050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1	4424.1
2.5°	4444.7	4424.1	4410.7	4403.6	4451.3	4390.2	4417.4	4424.1
5°	4417.4	4396.9	4383.5	4376.4	4417.4	4363.0	4383.5	4396.9
7.5°	4376.4	4363.0	4342.5	4335.8	4376.4	4315.3	4342.5	4349.2
10°	4329.1	4308.6	4294.8	4288.1	4322.0	4260.9	4288.1	4288.1
12.5°	4267.6	4254.2	4227.0	4227.0	4254.2	4199.8	4219.9	4219.9
15°	4186.0	4172.6	4145.4	4145.4	4172.6	4117.7	4138.2	4138.2
17.5°	4117.7	4104.3	4083.8	4077.1	4104.3	4049.9	4070.4	4063.3
20°	4063.3	4049.9	4022.7	4022.7	4043.2	3988.8	4008.9	4008.9
22.5°	4016.0	4008.9	3981.7	3981.7	4008.9	3954.5	3968.3	3954.5
25°	3941.1	3934.0	3906.8	3913.9	3927.3	3872.8	3893.4	3879.5
27.5°	3818.4	3818.4	3791.2	3784.5	3804.6	3757.3	3770.7	3764.0
30°	3628.0	3634.7	3600.8	3600.8	3607.5	3566.4	3586.9	3580.3
32.5°	3369.3	3376.0	3348.8	3342.1	3362.6	3328.3	3342.1	3342.1
35°	3083.4	3090.1	3069.6	3069.6	3090.1	3069.6	3069.6	3062.9
37.5°	2797.5	2810.9	2797.5	2804.2	2818.0	2797.5	2810.9	2804.2
40°	2566.0	2579.8	2559.3	2572.7	2586.5	2566.0	2586.5	2572.7
42.5°	2355.0	2375.5	2361.7	2375.5	2388.9	2375.5	2388.9	2368.8
45°	2198.5	2212.3	2205.2	2212.3	2225.7	2219.0	2225.7	2219.0
47.5°	2048.6	2075.8	2062.4	2075.8	2096.3	2082.9	2096.3	2075.8
50°	1912.6	1933.1	1926.4	1939.8	1946.5	1939.8	1953.6	1933.1
52.5°	1735.5	1756.0	1749.3	1749.3	1762.7	1749.3	1762.7	1749.3
55°	1504.4	1511.1	1511.1	1517.8	1511.1	1504.4	1511.1	1497.3
57.5°	1279.6	1293.0	1273.0	1293.0	1286.3	1279.6	1279.6	1265.8
60°	1136.5	1157.0	1143.6	1157.0	1150.3	1150.3	1150.3	1143.6
62.5°	1021.0	1034.8	1021.0	1027.7	1027.7	1027.7	1021.0	1014.3
65°	891.6	912.1	898.3	905.4	898.3	891.6	898.3	891.6
67.5°	762.3	769.0	769.0	762.3	762.3	762.3	762.3	748.9
70°	619.5	626.2	619.5	632.9	626.2	619.5	626.2	612.4
72.5°	483.1	490.2	483.1	490.2	483.1	483.1	483.1	483.1
75°	360.8	367.5	367.5	367.5	367.5	367.5	354.1	367.5
77.5°	258.7	258.7	258.7	265.4	258.7	258.7	258.7	258.7
80°	177.1	177.1	177.1	183.8	177.1	183.8	177.1	183.8
82.5°	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5
85°	61.1	68.2	68.2	61.1	61.1	61.1	61.1	61.1
87.5°	13.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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)