

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: P880539

Luminaire Tested: **LD4C100D010 EU41009035 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: P880539  
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 EU41009035 4LBDWNH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

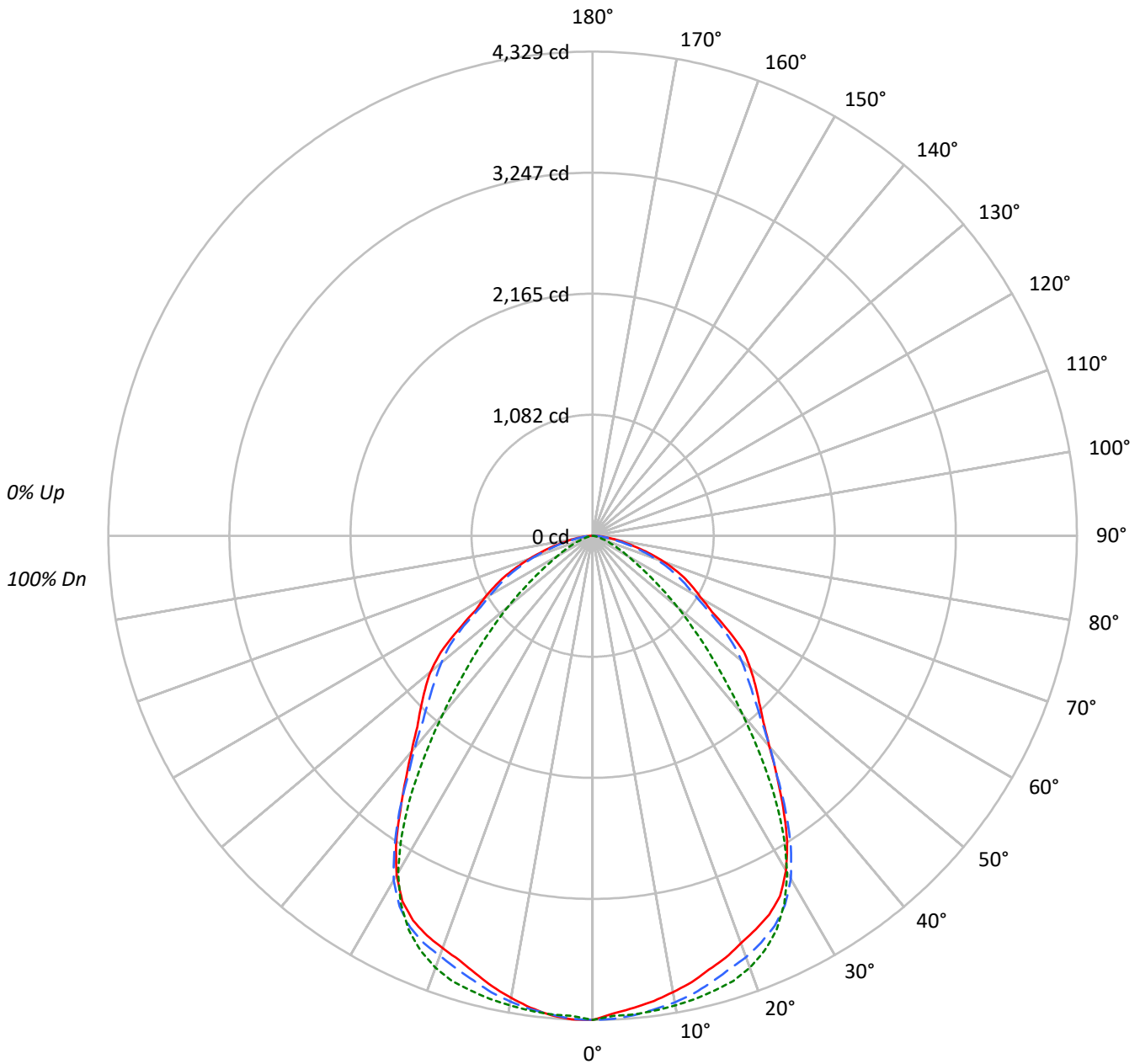
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8810.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 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					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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88				88				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58				58				
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51				51				
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46				46				
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41				41				
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	531808	531808	531808
5°	522371	529745	530559
10°	516771	531741	523408
15°	510771	535306	514994
20°	506714	537241	512820
25°	506456	527209	514562
30°	490321	493173	496946
35°	445475	424523	449464
40°	394119	334267	403709
45°	365621	254548	377227
50°	351328	188431	361496
55°	318091	129841	313808
60°	276543	88356	274946
65°	267179	63924	253603
70°	241562	43104	215232
75°	199076	28385	170691
80°	160245	18819	127206
85°	131655	9303	84293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.6	4.6
10°-20°	1168.4	13.3
20°-30°	1765.2	20.0
30°-40°	1847.3	21.0
40°-50°	1496.1	17.0
50°-60°	1088.3	12.4
60°-70°	671.2	7.6
70°-80°	303.2	3.4
80°-90°	61.6	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°	3342.2	37.9
0°-40°	5189.5	58.9
0°-60°	7773.9	88.2
0°-90°	8810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4329	4329	4329	4329	4329	
5°	4236	4302	4296	4296	4302	402
15°	4016	4129	4209	4116	4049	1135
25°	3736	3849	3889	3863	3796	1712
35°	2970	3010	2831	3010	2997	1851
45°	2104	2038	1465	2065	2171	1636
55°	1485	1392	606	1405	1465	1325
65°	919	826	220	813	872	900
75°	419	360	60	313	360	455
85°	93	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°	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8
2.5°	4275.6	4275.6	4315.7	4362.0	4322.3	4282.1	4308.7	4295.6	4342.3	4342.3	4322.3
5°	4235.8	4248.9	4282.1	4322.3	4289.1	4248.9	4282.1	4269.0	4315.7	4315.7	4302.2
7.5°	4195.7	4202.3	4242.4	4289.1	4255.5	4215.8	4242.4	4235.8	4275.6	4282.1	4269.0
10°	4142.5	4149.0	4189.2	4235.8	4202.3	4169.1	4195.7	4189.2	4242.4	4242.4	4235.8
12.5°	4089.2	4095.8	4135.9	4175.6	4142.5	4109.3	4135.9	4135.9	4189.2	4195.7	4189.2
15°	4015.9	4029.0	4062.6	4102.3	4082.7	4042.5	4069.1	4069.1	4115.8	4128.9	4128.9
17.5°	3956.1	3962.7	3995.8	4036.0	4009.3	3975.8	4002.4	4002.4	4049.1	4062.6	4062.6
20°	3875.8	3889.3	3922.5	3962.7	3942.6	3916.0	3936.0	3936.0	3989.3	4002.4	4009.3
22.5°	3809.5	3822.6	3849.2	3902.9	3869.3	3849.2	3875.8	3869.3	3929.5	3936.0	3936.0
25°	3736.2	3749.7	3782.9	3816.0	3796.0	3776.3	3796.0	3796.0	3842.6	3849.2	3849.2
27.5°	3629.7	3636.2	3669.4	3703.0	3682.9	3656.3	3682.9	3676.4	3722.6	3729.6	3722.6
30°	3456.4	3469.9	3483.0	3529.7	3509.7	3489.6	3516.2	3503.1	3549.8	3549.8	3542.8
32.5°	3236.5	3236.5	3263.5	3296.7	3270.1	3256.5	3276.6	3283.2	3316.8	3316.8	3296.7
35°	2970.3	2983.8	3003.4	3023.5	3003.4	2990.3	3010.4	3003.4	3043.6	3030.0	3010.4
37.5°	2704.0	2710.6	2730.6	2757.3	2730.6	2710.6	2717.1	2710.6	2743.8	2743.8	2710.6
40°	2457.5	2471.0	2484.1	2510.7	2484.1	2471.0	2477.5	2457.5	2497.6	2484.1	2464.0
42.5°	2257.6	2264.1	2284.2	2297.7	2271.1	2264.1	2271.1	2257.6	2277.7	2264.1	2224.4
45°	2104.4	2104.4	2111.4	2131.0	2104.4	2097.9	2097.9	2084.3	2104.4	2077.8	2038.1
47.5°	1971.3	1977.8	1984.8	1997.9	1977.8	1958.2	1964.7	1938.1	1951.2	1931.2	1877.9
50°	1838.2	1851.3	1858.2	1871.4	1851.3	1838.2	1844.7	1818.1	1818.1	1784.9	1738.2
52.5°	1705.1	1711.6	1705.1	1718.2	1705.1	1685.0	1691.6	1664.9	1664.9	1625.2	1578.5
55°	1485.1	1491.7	1498.6	1511.7	1498.6	1478.6	1491.7	1472.0	1472.0	1445.0	1391.7
57.5°	1265.2	1272.1	1278.7	1285.3	1285.3	1272.1	1278.7	1265.2	1258.6	1238.6	1198.8
60°	1125.5	1125.5	1125.5	1132.1	1125.5	1119.0	1119.0	1105.4	1105.4	1078.8	1039.1
62.5°	1019.0	1025.6	1025.6	1032.1	1025.6	1019.0	1012.5	999.0	992.4	965.8	932.2
65°	919.1	919.1	912.5	925.6	919.1	912.5	912.5	899.0	885.9	859.3	825.7
67.5°	799.1	805.6	799.1	805.6	805.6	799.1	792.5	779.0	772.5	752.4	712.7
70°	672.5	672.5	672.5	679.5	672.5	672.5	679.5	659.4	652.9	625.8	592.7
72.5°	546.0	552.9	552.9	546.0	552.9	539.4	539.4	539.4	532.9	506.2	472.7
75°	419.4	426.4	426.4	432.9	426.4	419.4	419.4	412.9	406.3	386.2	359.6
77.5°	312.9	312.9	319.5	319.5	319.5	312.9	312.9	299.8	299.8	286.3	259.7
80°	226.5	226.5	219.9	226.5	226.5	219.9	219.9	213.0	213.0	199.9	179.8
82.5°	146.6	153.2	153.2	153.2	153.2	146.6	146.6	146.6	139.7	133.1	120.0
85°	93.4	93.4	93.4	93.4	99.9	93.4	99.9	93.4	93.4	79.9	73.3
87.5°	40.1	40.1	40.1	46.7	46.7	40.1	40.1	40.1	40.1	40.1	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°	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8
2.5°	4322.3	4328.8	4308.7	4335.4	4315.7	4322.3	4328.8	4322.3	4295.6	4295.6	4369.0
5°	4295.6	4308.7	4289.1	4322.3	4308.7	4308.7	4322.3	4315.7	4289.1	4295.6	4362.0
7.5°	4269.0	4289.1	4275.6	4308.7	4289.1	4289.1	4302.2	4302.2	4275.6	4282.1	4342.3
10°	4228.9	4255.5	4248.9	4282.1	4262.5	4262.5	4282.1	4282.1	4255.5	4262.5	4322.3
12.5°	4195.7	4222.3	4215.8	4248.9	4235.8	4242.4	4248.9	4262.5	4228.9	4242.4	4295.6
15°	4142.5	4169.1	4169.1	4202.3	4189.2	4202.3	4215.8	4235.8	4208.8	4208.8	4262.5
17.5°	4082.7	4115.8	4115.8	4142.5	4142.5	4149.0	4175.6	4195.7	4169.1	4175.6	4222.3
20°	4015.9	4056.0	4056.0	4089.2	4082.7	4095.8	4115.8	4135.9	4109.3	4109.3	4162.5
22.5°	3949.1	3982.7	3989.3	4009.3	4009.3	4015.9	4036.0	4049.1	4015.9	4015.9	4069.1
25°	3856.2	3889.3	3895.9	3909.4	3895.9	3895.9	3909.4	3922.5	3889.3	3889.3	3936.0
27.5°	3729.6	3762.8	3762.8	3756.2	3742.7	3749.7	3742.7	3749.7	3716.1	3709.5	3756.2
30°	3542.8	3562.9	3562.9	3556.4	3536.3	3536.3	3516.2	3523.2	3476.5	3476.5	3516.2
32.5°	3290.1	3309.8	3296.7	3283.2	3256.5	3243.4	3229.9	3223.4	3176.7	3176.7	3223.4
35°	2990.3	3003.4	2983.8	2957.1	2923.6	2903.5	2883.8	2857.2	2823.6	2830.6	2857.2
37.5°	2684.0	2684.0	2657.3	2604.1	2577.5	2543.9	2510.7	2510.7	2457.5	2450.9	2471.0
40°	2424.3	2397.7	2351.0	2277.7	2231.0	2197.8	2151.1	2124.5	2084.3	2084.3	2117.9
42.5°	2191.2	2138.0	2077.8	1977.8	1931.2	1891.4	1831.6	1805.0	1758.3	1751.4	1771.4
45°	1984.8	1931.2	1844.7	1738.2	1678.4	1631.8	1544.9	1511.7	1472.0	1465.1	1478.6
47.5°	1818.1	1758.3	1651.8	1511.7	1451.9	1391.7	1305.3	1258.6	1225.5	1205.4	1225.5
50°	1671.5	1591.6	1478.6	1331.9	1252.1	1198.8	1092.3	1045.6	999.0	985.9	992.4
52.5°	1511.7	1431.9	1311.9	1158.7	1085.4	1005.5	905.6	839.2	799.1	779.0	799.1
55°	1338.5	1258.6	1139.0	985.9	905.6	832.7	725.8	672.5	625.8	606.2	625.8
57.5°	1152.1	1078.8	972.3	819.2	745.8	679.5	579.6	526.3	479.6	466.1	479.6
60°	992.4	932.2	825.7	679.5	619.3	546.0	459.5	406.3	366.2	359.6	366.2
62.5°	885.9	819.2	719.2	579.6	519.3	459.5	379.7	326.4	292.8	286.3	292.8
65°	779.0	706.1	612.7	492.7	432.9	386.2	306.4	259.7	226.5	219.9	226.5
67.5°	659.4	592.7	512.8	406.3	359.6	312.9	246.6	199.9	173.3	166.7	173.3
70°	546.0	486.2	406.3	326.4	279.7	246.6	186.4	153.2	126.6	120.0	126.6
72.5°	432.9	379.7	312.9	246.6	219.9	186.4	146.6	113.0	93.4	86.4	93.4
75°	333.0	292.8	239.6	179.8	159.7	139.7	99.9	79.9	66.8	59.8	66.8
77.5°	233.0	206.4	166.7	133.1	113.0	99.9	73.3	53.2	46.7	40.1	46.7
80°	159.7	139.7	113.0	86.4	73.3	59.8	46.7	33.2	26.6	26.6	26.6
82.5°	106.5	86.4	66.8	53.2	46.7	40.1	26.6	20.1	20.1	13.5	13.5
85°	59.8	53.2	40.1	33.2	26.6	20.1	13.5	13.5	6.6	6.6	6.6
87.5°	26.6	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°	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8
2.5°	4348.9	4328.8	4355.4	4328.8	4315.7	4328.8	4315.7	4355.4	4322.3	4295.6	4322.3
5°	4342.3	4315.7	4342.3	4322.3	4302.2	4308.7	4295.6	4335.4	4295.6	4275.6	4289.1
7.5°	4328.8	4308.7	4322.3	4302.2	4282.1	4289.1	4275.6	4308.7	4269.0	4248.9	4262.5
10°	4308.7	4289.1	4295.6	4282.1	4262.5	4262.5	4248.9	4275.6	4228.9	4202.3	4215.8
12.5°	4282.1	4255.5	4269.0	4248.9	4222.3	4222.3	4208.8	4228.9	4182.2	4155.6	4162.5
15°	4248.9	4222.3	4222.3	4202.3	4175.6	4175.6	4149.0	4169.1	4115.8	4089.2	4089.2
17.5°	4208.8	4175.6	4175.6	4155.6	4122.4	4115.8	4095.8	4115.8	4056.0	4029.0	4029.0
20°	4149.0	4122.4	4115.8	4102.3	4069.1	4062.6	4036.0	4042.5	3995.8	3975.8	3969.2
22.5°	4069.1	4042.5	4049.1	4029.0	4002.4	3995.8	3969.2	3989.3	3942.6	3922.5	3929.5
25°	3929.5	3916.0	3929.5	3922.5	3902.9	3902.9	3889.3	3902.9	3862.7	3849.2	3856.2
27.5°	3769.3	3762.8	3769.3	3769.3	3756.2	3756.2	3756.2	3776.3	3736.2	3729.6	3729.6
30°	3536.3	3536.3	3542.8	3549.8	3549.8	3562.9	3556.4	3583.0	3556.4	3542.8	3556.4
32.5°	3229.9	3256.5	3276.6	3276.6	3276.6	3290.1	3303.2	3323.3	3296.7	3303.2	3303.2
35°	2883.8	2903.5	2917.0	2950.2	2930.5	2976.8	2990.3	3016.9	3010.4	3023.5	3016.9
37.5°	2497.6	2524.2	2550.8	2597.5	2590.6	2643.8	2670.4	2723.7	2710.6	2737.2	2750.3
40°	2138.0	2177.7	2217.9	2251.0	2277.7	2330.9	2384.1	2450.9	2471.0	2490.6	2497.6
42.5°	1791.5	1831.6	1898.0	1944.7	1984.8	2071.2	2144.5	2224.4	2244.5	2284.2	2297.7
45°	1511.7	1544.9	1625.2	1685.0	1718.2	1844.7	1931.2	2031.1	2064.7	2111.4	2131.0
47.5°	1252.1	1311.9	1391.7	1465.1	1511.7	1644.9	1758.3	1864.8	1911.5	1964.7	1991.4
50°	1025.6	1092.3	1198.8	1265.2	1331.9	1478.6	1605.1	1718.2	1764.9	1824.7	1851.3
52.5°	839.2	912.5	1012.5	1085.4	1158.7	1311.9	1445.0	1551.9	1611.7	1651.8	1691.6
55°	659.4	739.3	839.2	919.1	978.9	1145.6	1258.6	1365.1	1405.3	1438.4	1458.5
57.5°	512.8	572.6	672.5	739.3	812.6	958.8	1072.3	1152.1	1185.3	1225.5	1238.6
60°	399.7	459.5	552.9	619.3	686.0	825.7	939.2	1019.0	1052.2	1085.4	1105.4
62.5°	319.5	379.7	466.1	526.3	586.1	712.7	812.6	892.5	932.2	965.8	985.9
65°	253.1	306.4	379.7	439.5	486.2	599.2	699.1	772.5	812.6	845.8	865.8
67.5°	199.9	246.6	312.9	353.1	399.7	492.7	579.6	645.9	679.5	719.2	739.3
70°	153.2	186.4	246.6	279.7	312.9	392.8	459.5	526.3	559.5	586.1	599.2
72.5°	113.0	139.7	186.4	213.0	233.0	299.8	353.1	399.7	426.4	453.0	466.1
75°	79.9	99.9	133.1	153.2	166.7	213.0	259.7	292.8	312.9	333.0	353.1
77.5°	53.2	66.8	86.4	99.9	113.0	146.6	173.3	199.9	219.9	239.6	246.6
80°	33.2	46.7	59.8	66.8	73.3	93.4	120.0	133.1	146.6	159.7	166.7
82.5°	20.1	26.6	33.2	40.1	46.7	59.8	73.3	86.4	93.4	106.5	113.0
85°	6.6	13.5	13.5	20.1	20.1	33.2	40.1	46.7	53.2	59.8	66.8
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: P880539

CATALOG NUMBER: LD4C100D010 EU41009035 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8	4328.8
2.5°	4348.9	4328.8	4315.7	4308.7	4355.4	4295.6	4322.3	4328.8
5°	4322.3	4302.2	4289.1	4282.1	4322.3	4269.0	4289.1	4302.2
7.5°	4282.1	4269.0	4248.9	4242.4	4282.1	4222.3	4248.9	4255.5
10°	4235.8	4215.8	4202.3	4195.7	4228.9	4169.1	4195.7	4195.7
12.5°	4175.6	4162.5	4135.9	4135.9	4162.5	4109.3	4128.9	4128.9
15°	4095.8	4082.7	4056.0	4056.0	4082.7	4029.0	4049.1	4049.1
17.5°	4029.0	4015.9	3995.8	3989.3	4015.9	3962.7	3982.7	3975.8
20°	3975.8	3962.7	3936.0	3936.0	3956.1	3902.9	3922.5	3922.5
22.5°	3929.5	3922.5	3895.9	3895.9	3922.5	3869.3	3882.8	3869.3
25°	3856.2	3849.2	3822.6	3829.5	3842.6	3789.4	3809.5	3796.0
27.5°	3736.2	3736.2	3709.5	3703.0	3722.6	3676.4	3689.5	3682.9
30°	3549.8	3556.4	3523.2	3523.2	3529.7	3489.6	3509.7	3503.1
32.5°	3296.7	3303.2	3276.6	3270.1	3290.1	3256.5	3270.1	3270.1
35°	3016.9	3023.5	3003.4	3003.4	3023.5	3003.4	3003.4	2996.9
37.5°	2737.2	2750.3	2737.2	2743.8	2757.3	2737.2	2750.3	2743.8
40°	2510.7	2524.2	2504.2	2517.3	2530.8	2510.7	2530.8	2517.3
42.5°	2304.3	2324.3	2310.8	2324.3	2337.5	2324.3	2337.5	2317.8
45°	2151.1	2164.6	2157.7	2164.6	2177.7	2171.2	2177.7	2171.2
47.5°	2004.5	2031.1	2018.0	2031.1	2051.2	2038.1	2051.2	2031.1
50°	1871.4	1891.4	1884.9	1898.0	1904.5	1898.0	1911.5	1891.4
52.5°	1698.1	1718.2	1711.6	1711.6	1724.7	1711.6	1724.7	1711.6
55°	1472.0	1478.6	1478.6	1485.1	1478.6	1472.0	1478.6	1465.1
57.5°	1252.1	1265.2	1245.5	1265.2	1258.6	1252.1	1252.1	1238.6
60°	1112.0	1132.1	1119.0	1132.1	1125.5	1125.5	1125.5	1119.0
62.5°	999.0	1012.5	999.0	1005.5	1005.5	1005.5	999.0	992.4
65°	872.4	892.5	879.0	885.9	879.0	872.4	879.0	872.4
67.5°	745.8	752.4	752.4	745.8	745.8	745.8	745.8	732.7
70°	606.2	612.7	606.2	619.3	612.7	606.2	612.7	599.2
72.5°	472.7	479.6	472.7	479.6	472.7	472.7	472.7	472.7
75°	353.1	359.6	359.6	359.6	359.6	359.6	346.5	359.6
77.5°	253.1	253.1	253.1	259.7	253.1	253.1	253.1	253.1
80°	173.3	173.3	173.3	179.8	173.3	179.8	173.3	179.8
82.5°	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
85°	59.8	66.8	66.8	59.8	59.8	59.8	59.8	59.8
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)