

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: P880537

Luminaire Tested: **LD4C100D010 EU41009027 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: P880537
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 EU41009027 4LBDWNH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

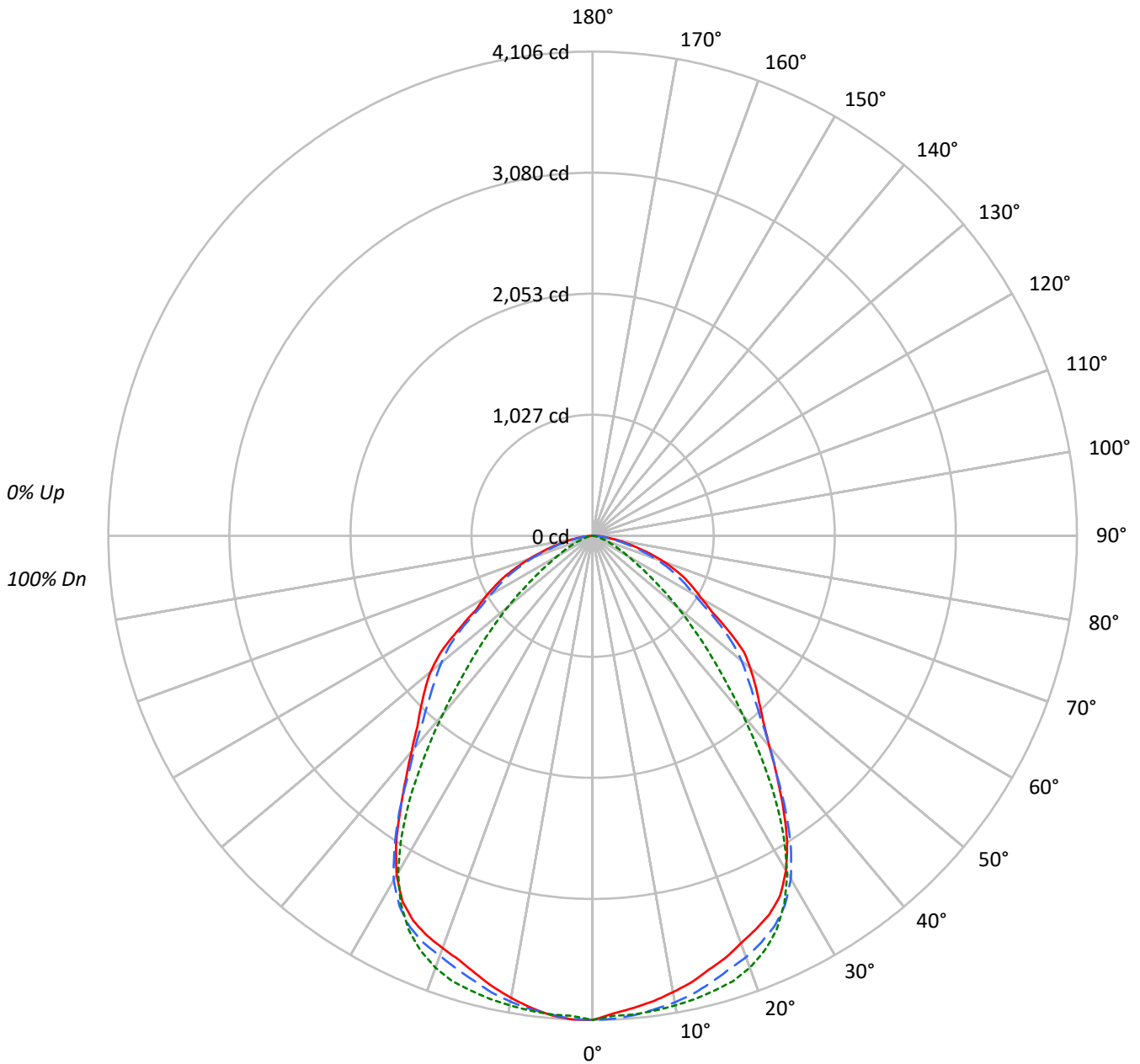
Lumens per Lamp: N/A
Luminaire Lumens: 8356.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	504400	504400	504400
5°	495462	502454	503219
10°	490138	504334	496437
15°	484456	507719	488450
20°	480606	509551	486397
25°	480348	500044	488034
30°	465056	467752	471341
35°	422514	402642	426293
40°	373799	317043	382893
45°	346787	241431	357785
50°	333228	178703	342880
55°	301706	123137	297636
60°	262292	83811	260769
65°	253400	60639	240522
70°	229133	40877	204133
75°	188823	26914	161910
80°	151968	17899	120626
85°	124889	8739	79924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	4.6
10°-20°	1108.2	13.3
20°-30°	1674.2	20.0
30°-40°	1752.1	21.0
40°-50°	1419.0	17.0
50°-60°	1032.2	12.4
60°-70°	636.6	7.6
70°-80°	287.6	3.4
80°-90°	58.5	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°	3170.0	37.9
0°-40°	4922.1	58.9
0°-60°	7373.3	88.2
0°-90°	8356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8356.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4106	4106	4106	4106	4106	
5°	4018	4080	4074	4074	4080	381
15°	3809	3916	3992	3904	3840	1077
25°	3544	3651	3689	3664	3600	1624
35°	2817	2855	2685	2855	2842	1756
45°	1996	1933	1390	1958	2059	1551
55°	1409	1320	575	1333	1390	1257
65°	872	783	209	771	827	853
75°	398	341	57	297	341	432
85°	89	70	6	50	57	102
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°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4055.2	4055.2	4093.3	4137.2	4099.5	4061.5	4086.7	4074.3	4118.6	4118.6	4099.5
5°	4017.6	4030.0	4061.5	4099.5	4068.1	4030.0	4061.5	4049.0	4093.3	4093.3	4080.5
7.5°	3979.5	3985.7	4023.8	4068.1	4036.2	3998.5	4023.8	4017.6	4055.2	4061.5	4049.0
10°	3929.0	3935.2	3973.3	4017.6	3985.7	3954.2	3979.5	3973.3	4023.8	4023.8	4017.6
12.5°	3878.5	3884.7	3922.8	3960.5	3929.0	3897.5	3922.8	3922.8	3973.3	3979.5	3973.3
15°	3809.0	3821.4	3853.2	3890.9	3872.3	3834.2	3859.5	3859.5	3903.7	3916.2	3916.2
17.5°	3752.2	3758.5	3789.9	3828.0	3802.7	3770.9	3796.1	3796.1	3840.4	3853.2	3853.2
20°	3676.1	3688.9	3720.4	3758.5	3739.4	3714.2	3733.2	3733.2	3783.7	3796.1	3802.7
22.5°	3613.2	3625.6	3650.8	3701.7	3669.9	3650.8	3676.1	3669.9	3727.0	3733.2	3733.2
25°	3543.6	3556.4	3587.9	3619.4	3600.3	3581.7	3600.3	3600.3	3644.6	3650.8	3650.8
27.5°	3442.6	3448.8	3480.3	3512.2	3493.1	3467.9	3493.1	3486.9	3530.8	3537.4	3530.8
30°	3278.3	3291.1	3303.6	3347.8	3328.8	3309.8	3335.0	3322.6	3366.9	3366.9	3360.3
32.5°	3069.7	3069.7	3095.3	3126.8	3101.5	3088.7	3107.8	3114.0	3145.8	3145.8	3126.8
35°	2817.2	2830.0	2848.7	2867.7	2848.7	2836.2	2855.3	2848.7	2886.7	2873.9	2855.3
37.5°	2564.7	2570.9	2589.9	2615.2	2589.9	2570.9	2577.1	2570.9	2602.4	2602.4	2570.9
40°	2330.8	2343.6	2356.1	2381.3	2356.1	2343.6	2349.9	2330.8	2368.9	2356.1	2337.0
42.5°	2141.2	2147.5	2166.5	2179.3	2154.1	2147.5	2154.1	2141.2	2160.3	2147.5	2109.8
45°	1996.0	1996.0	2002.6	2021.2	1996.0	1989.7	1989.7	1976.9	1996.0	1970.7	1933.0
47.5°	1869.7	1875.9	1882.5	1895.0	1875.9	1857.3	1863.5	1838.2	1850.7	1831.6	1781.1
50°	1743.5	1755.9	1762.5	1774.9	1755.9	1743.5	1749.7	1724.4	1724.4	1693.0	1648.7
52.5°	1617.2	1623.4	1617.2	1629.6	1617.2	1598.2	1604.4	1579.1	1579.1	1541.5	1497.2
55°	1408.6	1414.8	1421.4	1433.8	1421.4	1402.4	1414.8	1396.2	1396.2	1370.5	1320.0
57.5°	1200.0	1206.6	1212.8	1219.0	1219.0	1206.6	1212.8	1200.0	1193.8	1174.7	1137.1
60°	1067.5	1067.5	1067.5	1073.7	1067.5	1061.3	1061.3	1048.5	1048.5	1023.2	985.5
62.5°	966.5	972.7	972.7	978.9	972.7	966.5	960.3	947.5	941.3	916.0	884.2
65°	871.7	871.7	865.5	877.9	871.7	865.5	865.5	852.7	840.3	815.0	783.2
67.5°	757.9	764.1	757.9	764.1	764.1	757.9	751.7	738.9	732.7	713.6	675.9
70°	637.9	637.9	637.9	644.5	637.9	637.9	644.5	625.4	619.2	593.6	562.1
72.5°	517.8	524.4	524.4	517.8	524.4	511.6	511.6	511.6	505.4	480.1	448.3
75°	397.8	404.4	404.4	410.6	404.4	397.8	397.8	391.6	385.4	366.3	341.1
77.5°	296.8	296.8	303.0	303.0	303.0	296.8	296.8	284.4	284.4	271.5	246.3
80°	214.8	214.8	208.6	214.8	214.8	208.6	208.6	202.0	202.0	189.6	170.5
82.5°	139.1	145.3	145.3	145.3	145.3	139.1	139.1	139.1	132.5	126.3	113.8
85°	88.6	88.6	88.6	88.6	94.8	88.6	94.8	88.6	88.6	75.8	69.5
87.5°	38.1	38.1	38.1	44.3	44.3	38.1	38.1	38.1	38.1	38.1	31.5
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°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4099.5	4105.7	4086.7	4112.0	4093.3	4099.5	4105.7	4099.5	4074.3	4074.3	4143.8
5°	4074.3	4086.7	4068.1	4099.5	4086.7	4086.7	4099.5	4093.3	4068.1	4074.3	4137.2
7.5°	4049.0	4068.1	4055.2	4086.7	4068.1	4068.1	4080.5	4080.5	4055.2	4061.5	4118.6
10°	4011.0	4036.2	4030.0	4061.5	4042.8	4042.8	4061.5	4061.5	4036.2	4042.8	4099.5
12.5°	3979.5	4004.7	3998.5	4030.0	4017.6	4023.8	4030.0	4042.8	4011.0	4023.8	4074.3
15°	3929.0	3954.2	3954.2	3985.7	3973.3	3985.7	3998.5	4017.6	3991.9	3991.9	4042.8
17.5°	3872.3	3903.7	3903.7	3929.0	3929.0	3935.2	3960.5	3979.5	3954.2	3960.5	4004.7
20°	3809.0	3847.0	3847.0	3878.5	3872.3	3884.7	3903.7	3922.8	3897.5	3897.5	3948.0
22.5°	3745.6	3777.5	3783.7	3802.7	3802.7	3809.0	3828.0	3840.4	3809.0	3809.0	3859.5
25°	3657.4	3688.9	3695.1	3707.9	3695.1	3695.1	3707.9	3720.4	3688.9	3688.9	3733.2
27.5°	3537.4	3568.9	3568.9	3562.7	3549.8	3556.4	3549.8	3556.4	3524.6	3518.4	3562.7
30°	3360.3	3379.3	3379.3	3373.1	3354.1	3354.1	3335.0	3341.6	3297.3	3297.3	3335.0
32.5°	3120.6	3139.2	3126.8	3114.0	3088.7	3076.3	3063.5	3057.3	3013.0	3013.0	3057.3
35°	2836.2	2848.7	2830.0	2804.8	2772.9	2753.9	2735.2	2710.0	2678.1	2684.7	2710.0
37.5°	2545.6	2545.6	2520.4	2469.9	2444.6	2412.8	2381.3	2381.3	2330.8	2324.6	2343.6
40°	2299.4	2274.1	2229.8	2160.3	2116.0	2084.5	2040.2	2015.0	1976.9	1976.9	2008.8
42.5°	2078.3	2027.8	1970.7	1875.9	1831.6	1794.0	1737.2	1712.0	1667.7	1661.1	1680.1
45°	1882.5	1831.6	1749.7	1648.7	1592.0	1547.7	1465.3	1433.8	1396.2	1389.6	1402.4
47.5°	1724.4	1667.7	1566.7	1433.8	1377.1	1320.0	1238.1	1193.8	1162.3	1143.3	1162.3
50°	1585.3	1509.6	1402.4	1263.3	1187.6	1137.1	1036.1	991.8	947.5	935.0	941.3
52.5°	1433.8	1358.1	1244.3	1099.0	1029.4	953.7	858.9	796.0	757.9	738.9	757.9
55°	1269.5	1193.8	1080.3	935.0	858.9	789.8	688.4	637.9	593.6	574.9	593.6
57.5°	1092.8	1023.2	922.2	776.9	707.4	644.5	549.7	499.2	454.9	442.1	454.9
60°	941.3	884.2	783.2	644.5	587.4	517.8	435.9	385.4	347.3	341.1	347.3
62.5°	840.3	776.9	682.2	549.7	492.6	435.9	360.1	309.6	277.8	271.5	277.8
65°	738.9	669.7	581.2	467.3	410.6	366.3	290.6	246.3	214.8	208.6	214.8
67.5°	625.4	562.1	486.4	385.4	341.1	296.8	233.9	189.6	164.3	158.1	164.3
70°	517.8	461.1	385.4	309.6	265.3	233.9	176.8	145.3	120.0	113.8	120.0
72.5°	410.6	360.1	296.8	233.9	208.6	176.8	139.1	107.2	88.6	82.0	88.6
75°	315.8	277.8	227.3	170.5	151.5	132.5	94.8	75.8	63.3	56.7	63.3
77.5°	221.0	195.8	158.1	126.3	107.2	94.8	69.5	50.5	44.3	38.1	44.3
80°	151.5	132.5	107.2	82.0	69.5	56.7	44.3	31.5	25.3	25.3	25.3
82.5°	101.0	82.0	63.3	50.5	44.3	38.1	25.3	19.0	19.0	12.8	12.8
85°	56.7	50.5	38.1	31.5	25.3	19.0	12.8	12.8	6.2	6.2	6.2
87.5°	25.3	19.0	12.8	12.8	6.2	6.2	6.2	6.2	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°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4124.8	4105.7	4131.0	4105.7	4093.3	4105.7	4093.3	4131.0	4099.5	4074.3	4099.5
5°	4118.6	4093.3	4118.6	4099.5	4080.5	4086.7	4074.3	4112.0	4074.3	4055.2	4068.1
7.5°	4105.7	4086.7	4099.5	4080.5	4061.5	4068.1	4055.2	4086.7	4049.0	4030.0	4042.8
10°	4086.7	4068.1	4074.3	4061.5	4042.8	4042.8	4030.0	4055.2	4011.0	3985.7	3998.5
12.5°	4061.5	4036.2	4049.0	4030.0	4004.7	4004.7	3991.9	4011.0	3966.7	3941.4	3948.0
15°	4030.0	4004.7	4004.7	3985.7	3960.5	3960.5	3935.2	3954.2	3903.7	3878.5	3878.5
17.5°	3991.9	3960.5	3960.5	3941.4	3910.0	3903.7	3884.7	3903.7	3847.0	3821.4	3821.4
20°	3935.2	3910.0	3903.7	3890.9	3859.5	3853.2	3828.0	3834.2	3789.9	3770.9	3764.7
22.5°	3859.5	3834.2	3840.4	3821.4	3796.1	3789.9	3764.7	3783.7	3739.4	3720.4	3727.0
25°	3727.0	3714.2	3727.0	3720.4	3701.7	3701.7	3688.9	3701.7	3663.7	3650.8	3657.4
27.5°	3575.1	3568.9	3575.1	3575.1	3562.7	3562.7	3562.7	3581.7	3543.6	3537.4	3537.4
30°	3354.1	3354.1	3360.3	3366.9	3366.9	3379.3	3373.1	3398.3	3373.1	3360.3	3373.1
32.5°	3063.5	3088.7	3107.8	3107.8	3107.8	3120.6	3133.0	3152.0	3126.8	3133.0	3133.0
35°	2735.2	2753.9	2766.7	2798.2	2779.5	2823.4	2836.2	2861.5	2855.3	2867.7	2861.5
37.5°	2368.9	2394.1	2419.4	2463.7	2457.1	2507.6	2532.8	2583.3	2570.9	2596.1	2608.6
40°	2027.8	2065.5	2103.6	2135.0	2160.3	2210.8	2261.3	2324.6	2343.6	2362.3	2368.9
42.5°	1699.2	1737.2	1800.2	1844.5	1882.5	1964.5	2034.0	2109.8	2128.8	2166.5	2179.3
45°	1433.8	1465.3	1541.5	1598.2	1629.6	1749.7	1831.6	1926.4	1958.3	2002.6	2021.2
47.5°	1187.6	1244.3	1320.0	1389.6	1433.8	1560.1	1667.7	1768.7	1813.0	1863.5	1888.7
50°	972.7	1036.1	1137.1	1200.0	1263.3	1402.4	1522.4	1629.6	1673.9	1730.6	1755.9
52.5°	796.0	865.5	960.3	1029.4	1099.0	1244.3	1370.5	1471.9	1528.6	1566.7	1604.4
55°	625.4	701.2	796.0	871.7	928.4	1086.6	1193.8	1294.8	1332.8	1364.3	1383.3
57.5°	486.4	543.1	637.9	701.2	770.7	909.4	1017.0	1092.8	1124.2	1162.3	1174.7
60°	379.1	435.9	524.4	587.4	650.7	783.2	890.8	966.5	998.0	1029.4	1048.5
62.5°	303.0	360.1	442.1	499.2	555.9	675.9	770.7	846.5	884.2	916.0	935.0
65°	240.1	290.6	360.1	416.8	461.1	568.3	663.1	732.7	770.7	802.2	821.2
67.5°	189.6	233.9	296.8	334.9	379.1	467.3	549.7	612.6	644.5	682.2	701.2
70°	145.3	176.8	233.9	265.3	296.8	372.5	435.9	499.2	530.7	555.9	568.3
72.5°	107.2	132.5	176.8	202.0	221.0	284.4	334.9	379.1	404.4	429.6	442.1
75°	75.8	94.8	126.3	145.3	158.1	202.0	246.3	277.8	296.8	315.8	334.9
77.5°	50.5	63.3	82.0	94.8	107.2	139.1	164.3	189.6	208.6	227.3	233.9
80°	31.5	44.3	56.7	63.3	69.5	88.6	113.8	126.3	139.1	151.5	158.1
82.5°	19.0	25.3	31.5	38.1	44.3	56.7	69.5	82.0	88.6	101.0	107.2
85°	6.2	12.8	12.8	19.0	19.0	31.5	38.1	44.3	50.5	56.7	63.3
87.5°	0.0	0.0	6.2	6.2	6.2	6.2	12.8	12.8	12.8	12.8	12.8
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: P880537

CATALOG NUMBER: LD4C100D010 EU41009027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4124.8	4105.7	4093.3	4086.7	4131.0	4074.3	4099.5	4105.7
5°	4099.5	4080.5	4068.1	4061.5	4099.5	4049.0	4068.1	4080.5
7.5°	4061.5	4049.0	4030.0	4023.8	4061.5	4004.7	4030.0	4036.2
10°	4017.6	3998.5	3985.7	3979.5	4011.0	3954.2	3979.5	3979.5
12.5°	3960.5	3948.0	3922.8	3922.8	3948.0	3897.5	3916.2	3916.2
15°	3884.7	3872.3	3847.0	3847.0	3872.3	3821.4	3840.4	3840.4
17.5°	3821.4	3809.0	3789.9	3783.7	3809.0	3758.5	3777.5	3770.9
20°	3770.9	3758.5	3733.2	3733.2	3752.2	3701.7	3720.4	3720.4
22.5°	3727.0	3720.4	3695.1	3695.1	3720.4	3669.9	3682.7	3669.9
25°	3657.4	3650.8	3625.6	3632.2	3644.6	3594.1	3613.2	3600.3
27.5°	3543.6	3543.6	3518.4	3512.2	3530.8	3486.9	3499.3	3493.1
30°	3366.9	3373.1	3341.6	3341.6	3347.8	3309.8	3328.8	3322.6
32.5°	3126.8	3133.0	3107.8	3101.5	3120.6	3088.7	3101.5	3101.5
35°	2861.5	2867.7	2848.7	2848.7	2867.7	2848.7	2848.7	2842.4
37.5°	2596.1	2608.6	2596.1	2602.4	2615.2	2596.1	2608.6	2602.4
40°	2381.3	2394.1	2375.1	2387.5	2400.4	2381.3	2400.4	2387.5
42.5°	2185.5	2204.6	2191.7	2204.6	2217.0	2204.6	2217.0	2198.4
45°	2040.2	2053.1	2046.5	2053.1	2065.5	2059.3	2065.5	2059.3
47.5°	1901.2	1926.4	1914.0	1926.4	1945.5	1933.0	1945.5	1926.4
50°	1774.9	1794.0	1787.7	1800.2	1806.4	1800.2	1813.0	1794.0
52.5°	1610.6	1629.6	1623.4	1623.4	1635.8	1623.4	1635.8	1623.4
55°	1396.2	1402.4	1402.4	1408.6	1402.4	1396.2	1402.4	1389.6
57.5°	1187.6	1200.0	1181.3	1200.0	1193.8	1187.6	1187.6	1174.7
60°	1054.7	1073.7	1061.3	1073.7	1067.5	1067.5	1067.5	1061.3
62.5°	947.5	960.3	947.5	953.7	953.7	953.7	947.5	941.3
65°	827.4	846.5	833.7	840.3	833.7	827.4	833.7	827.4
67.5°	707.4	713.6	713.6	707.4	707.4	707.4	707.4	695.0
70°	574.9	581.2	574.9	587.4	581.2	574.9	581.2	568.3
72.5°	448.3	454.9	448.3	454.9	448.3	448.3	448.3	448.3
75°	334.9	341.1	341.1	341.1	341.1	341.1	328.6	341.1
77.5°	240.1	240.1	240.1	246.3	240.1	240.1	240.1	240.1
80°	164.3	164.3	164.3	170.5	164.3	170.5	164.3	170.5
82.5°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
85°	56.7	63.3	63.3	56.7	56.7	56.7	56.7	56.7
87.5°	12.8	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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)