

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: P880611

Luminaire Tested: **LD4C75D010 EU4759050 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: P880611  
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: LD4C75D010 EU4759050 4LBDWNH  
Description: 4 INCH 7500 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**

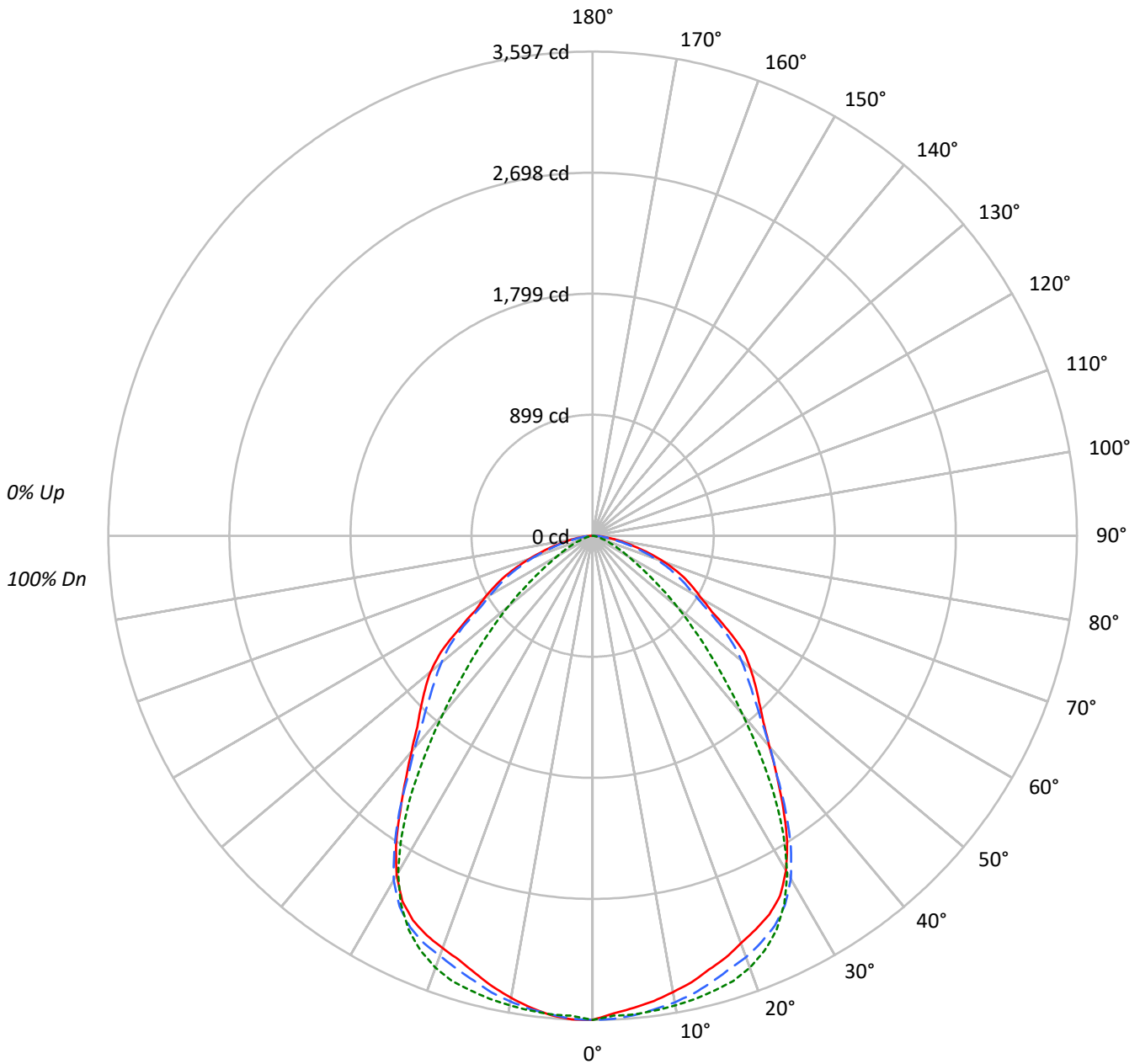
Lumens per Lamp: N/A  
Luminaire Lumens: 7320.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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°	441867	441867	441867
5°	434034	440151	440830
10°	429373	441810	434886
15°	424386	444774	427896
20°	421015	446379	426088
25°	420800	438056	427537
30°	407391	409760	412895
35°	370127	352729	373441
40°	327451	277735	335422
45°	303786	211495	313429
50°	291907	156551	300355
55°	264309	107887	260732
60°	229785	73417	228434
65°	221976	53110	210726
70°	200721	35812	178845
75°	165422	23591	141831
80°	133149	15635	105698
85°	109384	7612	70056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	4.6
10°-20°	970.8	13.3
20°-30°	1466.6	20.0
30°-40°	1534.9	21.0
40°-50°	1243.1	17.0
50°-60°	904.2	12.4
60°-70°	557.7	7.6
70°-80°	252.0	3.4
80°-90°	51.2	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°	2777.0	37.9
0°-40°	4311.8	58.9
0°-60°	6459.2	88.2
0°-90°	7320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3597	3597	3597	3597	3597	
5°	3520	3575	3569	3569	3575	334
15°	3337	3431	3497	3420	3364	943
25°	3104	3198	3232	3209	3154	1422
35°	2468	2501	2352	2501	2490	1538
45°	1748	1693	1217	1716	1804	1359
55°	1234	1156	504	1168	1217	1101
65°	764	686	183	675	725	747
75°	348	299	50	260	299	378
85°	78	61	5	44	50	89
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°	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7
2.5°	3552.5	3552.5	3585.8	3624.3	3591.3	3557.9	3580.0	3569.1	3607.9	3607.9	3591.3
5°	3519.5	3530.3	3557.9	3591.3	3563.7	3530.3	3557.9	3547.0	3585.8	3585.8	3574.6
7.5°	3486.1	3491.5	3524.9	3563.7	3535.8	3502.8	3524.9	3519.5	3552.5	3557.9	3547.0
10°	3441.9	3447.3	3480.7	3519.5	3491.5	3464.0	3486.1	3480.7	3524.9	3524.9	3519.5
12.5°	3397.6	3403.1	3436.4	3469.4	3441.9	3414.3	3436.4	3436.4	3480.7	3486.1	3480.7
15°	3336.7	3347.6	3375.5	3408.5	3392.2	3358.8	3380.9	3380.9	3419.7	3430.6	3430.6
17.5°	3287.0	3292.5	3320.0	3353.4	3331.3	3303.4	3325.5	3325.5	3364.3	3375.5	3375.5
20°	3220.3	3231.6	3259.1	3292.5	3275.8	3253.7	3270.3	3270.3	3314.6	3325.5	3331.3
22.5°	3165.2	3176.1	3198.2	3242.8	3214.9	3198.2	3220.3	3214.9	3264.9	3270.3	3270.3
25°	3104.3	3115.5	3143.1	3170.6	3154.0	3137.6	3154.0	3154.0	3192.8	3198.2	3198.2
27.5°	3015.8	3021.2	3048.8	3076.7	3060.0	3037.9	3060.0	3054.6	3093.0	3098.8	3093.0
30°	2871.8	2883.1	2894.0	2932.8	2916.1	2899.4	2921.5	2910.6	2949.4	2949.4	2943.7
32.5°	2689.1	2689.1	2711.6	2739.1	2717.0	2705.8	2722.5	2727.9	2755.8	2755.8	2739.1
35°	2467.9	2479.1	2495.5	2512.1	2495.5	2484.6	2501.3	2495.5	2528.8	2517.6	2501.3
37.5°	2246.7	2252.1	2268.8	2290.9	2268.8	2252.1	2257.6	2252.1	2279.7	2279.7	2252.1
40°	2041.8	2053.1	2064.0	2086.1	2064.0	2053.1	2058.5	2041.8	2075.2	2064.0	2047.3
42.5°	1875.8	1881.2	1897.9	1909.1	1887.0	1881.2	1887.0	1875.8	1892.4	1881.2	1848.2
45°	1748.5	1748.5	1754.3	1770.6	1748.5	1743.1	1743.1	1731.8	1748.5	1726.4	1693.4
47.5°	1637.9	1643.3	1649.1	1660.0	1643.3	1627.0	1632.5	1610.3	1621.2	1604.5	1560.3
50°	1527.3	1538.2	1544.0	1554.9	1538.2	1527.3	1532.7	1510.6	1510.6	1483.1	1444.3
52.5°	1416.7	1422.1	1416.7	1427.6	1416.7	1400.0	1405.5	1383.3	1383.3	1350.3	1311.5
55°	1234.0	1239.4	1245.2	1256.1	1245.2	1228.5	1239.4	1223.1	1223.1	1200.6	1156.4
57.5°	1051.2	1057.0	1062.4	1067.9	1067.9	1057.0	1062.4	1051.2	1045.8	1029.1	996.1
60°	935.2	935.2	935.2	940.6	935.2	929.7	929.7	918.5	918.5	896.4	863.4
62.5°	846.7	852.1	852.1	857.6	852.1	846.7	841.2	830.0	824.6	802.4	774.5
65°	763.6	763.6	758.2	769.1	763.6	758.2	758.2	747.0	736.1	714.0	686.1
67.5°	663.9	669.4	663.9	669.4	669.4	663.9	658.5	647.3	641.8	625.1	592.1
70°	558.8	558.8	558.8	564.6	558.8	558.8	564.6	547.9	542.4	520.0	492.4
72.5°	453.6	459.4	459.4	453.6	459.4	448.2	448.2	448.2	442.7	420.6	392.7
75°	348.5	354.3	354.3	359.7	354.3	348.5	348.5	343.0	337.6	320.9	298.8
77.5°	260.0	260.0	265.4	265.4	265.4	260.0	260.0	249.1	249.1	237.9	215.8
80°	188.2	188.2	182.7	188.2	188.2	182.7	182.7	177.0	177.0	166.1	149.4
82.5°	121.8	127.3	127.3	127.3	127.3	121.8	121.8	121.8	116.0	110.6	99.7
85°	77.6	77.6	77.6	77.6	83.0	77.6	83.0	77.6	77.6	66.4	60.9
87.5°	33.4	33.4	33.4	38.8	38.8	33.4	33.4	33.4	33.4	33.4	27.6
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°	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7
2.5°	3591.3	3596.7	3580.0	3602.1	3585.8	3591.3	3596.7	3591.3	3569.1	3569.1	3630.1
5°	3569.1	3580.0	3563.7	3591.3	3580.0	3580.0	3591.3	3585.8	3563.7	3569.1	3624.3
7.5°	3547.0	3563.7	3552.5	3580.0	3563.7	3563.7	3574.6	3574.6	3552.5	3557.9	3607.9
10°	3513.7	3535.8	3530.3	3557.9	3541.6	3541.6	3557.9	3557.9	3535.8	3541.6	3591.3
12.5°	3486.1	3508.2	3502.8	3530.3	3519.5	3524.9	3530.3	3541.6	3513.7	3524.9	3569.1
15°	3441.9	3464.0	3464.0	3491.5	3480.7	3491.5	3502.8	3519.5	3497.0	3497.0	3541.6
17.5°	3392.2	3419.7	3419.7	3441.9	3441.9	3447.3	3469.4	3486.1	3464.0	3469.4	3508.2
20°	3336.7	3370.1	3370.1	3397.6	3392.2	3403.1	3419.7	3436.4	3414.3	3414.3	3458.5
22.5°	3281.2	3309.1	3314.6	3331.3	3331.3	3336.7	3353.4	3364.3	3336.7	3336.7	3380.9
25°	3204.0	3231.6	3237.0	3248.2	3237.0	3237.0	3248.2	3259.1	3231.6	3231.6	3270.3
27.5°	3098.8	3126.4	3126.4	3121.0	3109.7	3115.5	3109.7	3115.5	3087.6	3082.2	3121.0
30°	2943.7	2960.3	2960.3	2954.9	2938.2	2938.2	2921.5	2927.3	2888.5	2888.5	2921.5
32.5°	2733.7	2750.0	2739.1	2727.9	2705.8	2694.9	2683.7	2678.2	2639.4	2639.4	2678.2
35°	2484.6	2495.5	2479.1	2457.0	2429.1	2412.4	2396.1	2374.0	2346.1	2351.9	2374.0
37.5°	2230.0	2230.0	2207.9	2163.7	2141.6	2113.6	2086.1	2086.1	2041.8	2036.4	2053.1
40°	2014.3	1992.2	1953.4	1892.4	1853.7	1826.1	1787.3	1765.2	1731.8	1731.8	1759.7
42.5°	1820.6	1776.4	1726.4	1643.3	1604.5	1571.5	1521.9	1499.7	1460.9	1455.2	1471.8
45°	1649.1	1604.5	1532.7	1444.3	1394.6	1355.8	1283.6	1256.1	1223.1	1217.3	1228.5
47.5°	1510.6	1460.9	1372.5	1256.1	1206.4	1156.4	1084.6	1045.8	1018.2	1001.5	1018.2
50°	1388.8	1322.4	1228.5	1106.7	1040.3	996.1	907.6	868.8	830.0	819.1	824.6
52.5°	1256.1	1189.7	1090.0	962.7	901.8	835.5	752.4	697.3	663.9	647.3	663.9
55°	1112.1	1045.8	946.4	819.1	752.4	691.8	603.0	558.8	520.0	503.7	520.0
57.5°	957.3	896.4	807.9	680.6	619.7	564.6	481.5	437.3	398.5	387.3	398.5
60°	824.6	774.5	686.1	564.6	514.5	453.6	381.8	337.6	304.2	298.8	304.2
62.5°	736.1	680.6	597.6	481.5	431.5	381.8	315.5	271.2	243.3	237.9	243.3
65°	647.3	586.7	509.1	409.4	359.7	320.9	254.5	215.8	188.2	182.7	188.2
67.5°	547.9	492.4	426.1	337.6	298.8	260.0	204.9	166.1	143.9	138.5	143.9
70°	453.6	403.9	337.6	271.2	232.4	204.9	154.8	127.3	105.2	99.7	105.2
72.5°	359.7	315.5	260.0	204.9	182.7	154.8	121.8	93.9	77.6	71.8	77.6
75°	276.7	243.3	199.1	149.4	132.7	116.0	83.0	66.4	55.5	49.7	55.5
77.5°	193.6	171.5	138.5	110.6	93.9	83.0	60.9	44.2	38.8	33.4	38.8
80°	132.7	116.0	93.9	71.8	60.9	49.7	38.8	27.6	22.1	22.1	22.1
82.5°	88.5	71.8	55.5	44.2	38.8	33.4	22.1	16.7	16.7	11.2	11.2
85°	49.7	44.2	33.4	27.6	22.1	16.7	11.2	11.2	5.4	5.4	5.4
87.5°	22.1	16.7	11.2	11.2	5.4	5.4	5.4	5.4	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°	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7
2.5°	3613.4	3596.7	3618.8	3596.7	3585.8	3596.7	3585.8	3618.8	3591.3	3569.1	3591.3
5°	3607.9	3585.8	3607.9	3591.3	3574.6	3580.0	3569.1	3602.1	3569.1	3552.5	3563.7
7.5°	3596.7	3580.0	3591.3	3574.6	3557.9	3563.7	3552.5	3580.0	3547.0	3530.3	3541.6
10°	3580.0	3563.7	3569.1	3557.9	3541.6	3541.6	3530.3	3552.5	3513.7	3491.5	3502.8
12.5°	3557.9	3535.8	3547.0	3530.3	3508.2	3508.2	3497.0	3513.7	3474.9	3452.8	3458.5
15°	3530.3	3508.2	3508.2	3491.5	3469.4	3469.4	3447.3	3464.0	3419.7	3397.6	3397.6
17.5°	3497.0	3469.4	3469.4	3452.8	3425.2	3419.7	3403.1	3419.7	3370.1	3347.6	3347.6
20°	3447.3	3425.2	3419.7	3408.5	3380.9	3375.5	3353.4	3358.8	3320.0	3303.4	3297.9
22.5°	3380.9	3358.8	3364.3	3347.6	3325.5	3320.0	3297.9	3314.6	3275.8	3259.1	3264.9
25°	3264.9	3253.7	3264.9	3259.1	3242.8	3242.8	3231.6	3242.8	3209.4	3198.2	3204.0
27.5°	3131.8	3126.4	3131.8	3131.8	3121.0	3121.0	3121.0	3137.6	3104.3	3098.8	3098.8
30°	2938.2	2938.2	2943.7	2949.4	2949.4	2960.3	2954.9	2977.0	2954.9	2943.7	2954.9
32.5°	2683.7	2705.8	2722.5	2722.5	2722.5	2733.7	2744.6	2761.2	2739.1	2744.6	2744.6
35°	2396.1	2412.4	2423.7	2451.2	2434.9	2473.3	2484.6	2506.7	2501.3	2512.1	2506.7
37.5°	2075.2	2097.3	2119.4	2158.2	2152.4	2196.7	2218.8	2263.0	2252.1	2274.3	2285.2
40°	1776.4	1809.4	1842.8	1870.3	1892.4	1936.7	1980.9	2036.4	2053.1	2069.4	2075.2
42.5°	1488.5	1521.9	1577.0	1615.8	1649.1	1720.9	1781.8	1848.2	1864.9	1897.9	1909.1
45°	1256.1	1283.6	1350.3	1400.0	1427.6	1532.7	1604.5	1687.6	1715.5	1754.3	1770.6
47.5°	1040.3	1090.0	1156.4	1217.3	1256.1	1366.7	1460.9	1549.4	1588.2	1632.5	1654.6
50°	852.1	907.6	996.1	1051.2	1106.7	1228.5	1333.7	1427.6	1466.4	1516.1	1538.2
52.5°	697.3	758.2	841.2	901.8	962.7	1090.0	1200.6	1289.4	1339.1	1372.5	1405.5
55°	547.9	614.3	697.3	763.6	813.3	951.8	1045.8	1134.2	1167.6	1195.2	1211.8
57.5°	426.1	475.7	558.8	614.3	675.2	796.7	890.9	957.3	984.8	1018.2	1029.1
60°	332.1	381.8	459.4	514.5	570.0	686.1	780.3	846.7	874.2	901.8	918.5
62.5°	265.4	315.5	387.3	437.3	487.0	592.1	675.2	741.5	774.5	802.4	819.1
65°	210.3	254.5	315.5	365.1	403.9	497.9	580.9	641.8	675.2	702.7	719.4
67.5°	166.1	204.9	260.0	293.3	332.1	409.4	481.5	536.7	564.6	597.6	614.3
70°	127.3	154.8	204.9	232.4	260.0	326.4	381.8	437.3	464.9	487.0	497.9
72.5°	93.9	116.0	154.8	177.0	193.6	249.1	293.3	332.1	354.3	376.4	387.3
75°	66.4	83.0	110.6	127.3	138.5	177.0	215.8	243.3	260.0	276.7	293.3
77.5°	44.2	55.5	71.8	83.0	93.9	121.8	143.9	166.1	182.7	199.1	204.9
80°	27.6	38.8	49.7	55.5	60.9	77.6	99.7	110.6	121.8	132.7	138.5
82.5°	16.7	22.1	27.6	33.4	38.8	49.7	60.9	71.8	77.6	88.5	93.9
85°	5.4	11.2	11.2	16.7	16.7	27.6	33.4	38.8	44.2	49.7	55.5
87.5°	0.0	0.0	5.4	5.4	5.4	5.4	11.2	11.2	11.2	11.2	11.2
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: P880611

CATALOG NUMBER: LD4C75D010 EU4759050 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7	3596.7
2.5°	3613.4	3596.7	3585.8	3580.0	3618.8	3569.1	3591.3	3596.7
5°	3591.3	3574.6	3563.7	3557.9	3591.3	3547.0	3563.7	3574.6
7.5°	3557.9	3547.0	3530.3	3524.9	3557.9	3508.2	3530.3	3535.8
10°	3519.5	3502.8	3491.5	3486.1	3513.7	3464.0	3486.1	3486.1
12.5°	3469.4	3458.5	3436.4	3436.4	3458.5	3414.3	3430.6	3430.6
15°	3403.1	3392.2	3370.1	3370.1	3392.2	3347.6	3364.3	3364.3
17.5°	3347.6	3336.7	3320.0	3314.6	3336.7	3292.5	3309.1	3303.4
20°	3303.4	3292.5	3270.3	3270.3	3287.0	3242.8	3259.1	3259.1
22.5°	3264.9	3259.1	3237.0	3237.0	3259.1	3214.9	3226.1	3214.9
25°	3204.0	3198.2	3176.1	3181.9	3192.8	3148.5	3165.2	3154.0
27.5°	3104.3	3104.3	3082.2	3076.7	3093.0	3054.6	3065.5	3060.0
30°	2949.4	2954.9	2927.3	2927.3	2932.8	2899.4	2916.1	2910.6
32.5°	2739.1	2744.6	2722.5	2717.0	2733.7	2705.8	2717.0	2717.0
35°	2506.7	2512.1	2495.5	2495.5	2512.1	2495.5	2495.5	2490.0
37.5°	2274.3	2285.2	2274.3	2279.7	2290.9	2274.3	2285.2	2279.7
40°	2086.1	2097.3	2080.6	2091.5	2102.8	2086.1	2102.8	2091.5
42.5°	1914.6	1931.2	1920.0	1931.2	1942.1	1931.2	1942.1	1925.8
45°	1787.3	1798.5	1792.7	1798.5	1809.4	1804.0	1809.4	1804.0
47.5°	1665.5	1687.6	1676.7	1687.6	1704.3	1693.4	1704.3	1687.6
50°	1554.9	1571.5	1566.1	1577.0	1582.4	1577.0	1588.2	1571.5
52.5°	1410.9	1427.6	1422.1	1422.1	1433.0	1422.1	1433.0	1422.1
55°	1223.1	1228.5	1228.5	1234.0	1228.5	1223.1	1228.5	1217.3
57.5°	1040.3	1051.2	1034.9	1051.2	1045.8	1040.3	1040.3	1029.1
60°	923.9	940.6	929.7	940.6	935.2	935.2	935.2	929.7
62.5°	830.0	841.2	830.0	835.5	835.5	835.5	830.0	824.6
65°	724.9	741.5	730.3	736.1	730.3	724.9	730.3	724.9
67.5°	619.7	625.1	625.1	619.7	619.7	619.7	619.7	608.8
70°	503.7	509.1	503.7	514.5	509.1	503.7	509.1	497.9
72.5°	392.7	398.5	392.7	398.5	392.7	392.7	392.7	392.7
75°	293.3	298.8	298.8	298.8	298.8	298.8	287.9	298.8
77.5°	210.3	210.3	210.3	215.8	210.3	210.3	210.3	210.3
80°	143.9	143.9	143.9	149.4	143.9	149.4	143.9	149.4
82.5°	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
85°	49.7	55.5	55.5	49.7	49.7	49.7	49.7	49.7
87.5°	11.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)