

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: P880609

Luminaire Tested: **LD4C75D010 EU4759035 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: P880609  
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 EU4759035 4LBDWNH  
Description: 4 INCH 7500 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**

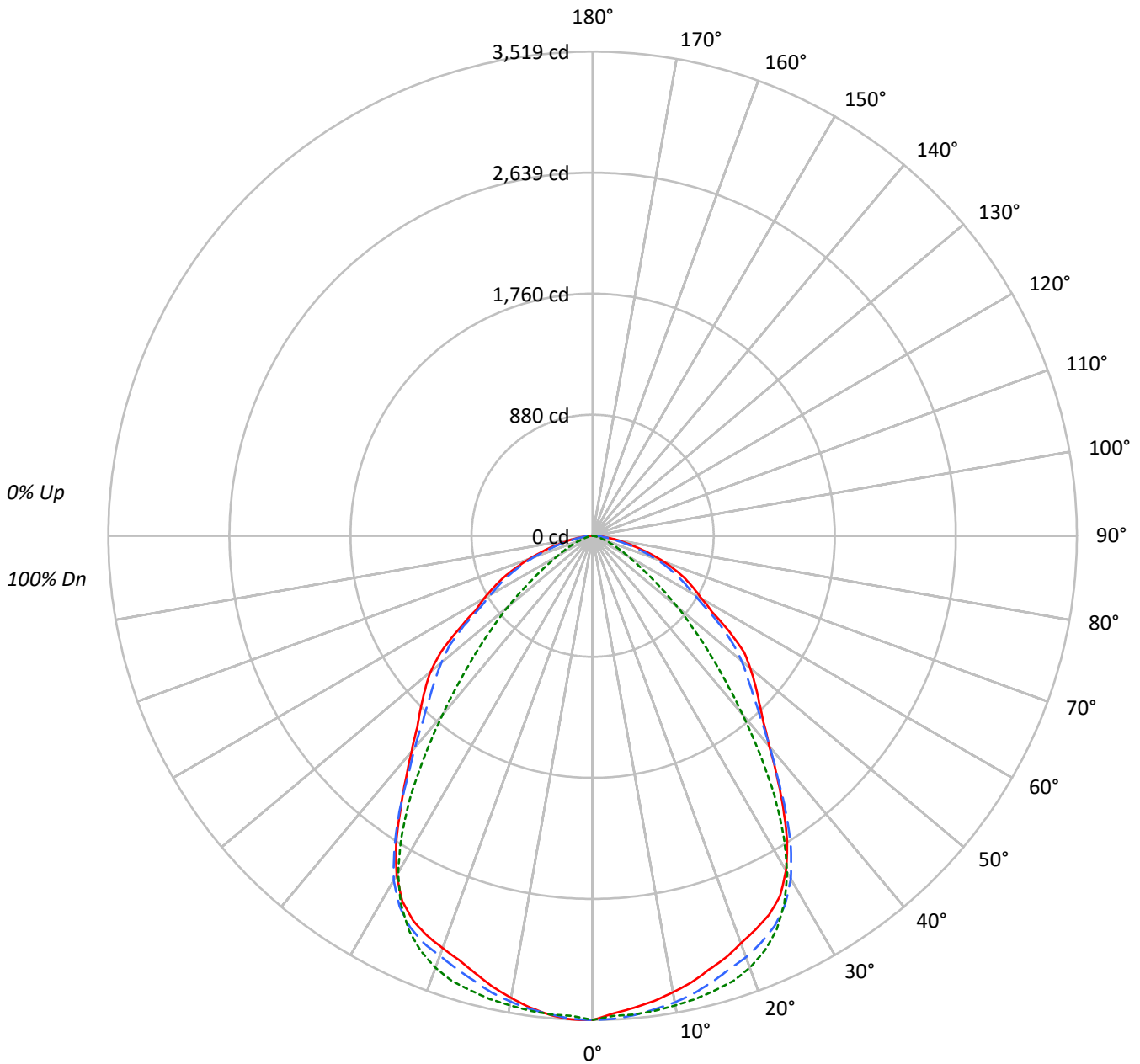
Lumens per Lamp: N/A  
Luminaire Lumens: 7162.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	432334	432334	432334
5°	424662	430655	431309
10°	420104	432267	425505
15°	415228	435171	418662
20°	411929	436743	416897
25°	411718	428594	418306
30°	398610	400922	403986
35°	362133	345111	365388
40°	320395	271737	328189
45°	297236	206926	306653
50°	285600	153168	293875
55°	258590	105552	255099
60°	224822	71820	223520
65°	217208	51976	206162
70°	196374	35058	174966
75°	161862	23069	138746
80°	130248	15282	103434
85°	106988	7471	68506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.2	4.6
10°-20°	949.8	13.3
20°-30°	1435.0	20.0
30°-40°	1501.8	21.0
40°-50°	1216.3	17.0
50°-60°	884.7	12.4
60°-70°	545.6	7.6
70°-80°	246.5	3.4
80°-90°	50.1	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°	2717.0	37.9
0°-40°	4218.8	58.9
0°-60°	6319.8	88.2
0°-90°	7162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7162.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3519	3519	3519	3519	3519	
5°	3444	3497	3492	3492	3497	327
15°	3265	3357	3422	3346	3292	923
25°	3037	3129	3162	3140	3086	1392
35°	2415	2447	2301	2447	2436	1505
45°	1711	1657	1191	1678	1765	1330
55°	1207	1131	493	1142	1191	1077
65°	747	671	179	661	709	731
75°	341	292	49	254	292	370
85°	76	60	5	43	49	87
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°	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1
2.5°	3475.8	3475.8	3508.4	3546.0	3513.7	3481.1	3502.8	3492.1	3530.1	3530.1	3513.7
5°	3443.5	3454.1	3481.1	3513.7	3486.8	3454.1	3481.1	3470.5	3508.4	3508.4	3497.4
7.5°	3410.9	3416.2	3448.8	3486.8	3459.5	3427.2	3448.8	3443.5	3475.8	3481.1	3470.5
10°	3367.6	3372.9	3405.5	3443.5	3416.2	3389.2	3410.9	3405.5	3448.8	3448.8	3443.5
12.5°	3324.3	3329.6	3362.2	3394.5	3367.6	3340.6	3362.2	3362.2	3405.5	3410.9	3405.5
15°	3264.7	3275.3	3302.6	3334.9	3319.0	3286.3	3308.0	3308.0	3345.9	3356.6	3356.6
17.5°	3216.1	3221.4	3248.4	3281.0	3259.4	3232.1	3253.7	3253.7	3291.7	3302.6	3302.6
20°	3150.8	3161.8	3188.8	3221.4	3205.1	3183.4	3199.8	3199.8	3243.0	3253.7	3259.4
22.5°	3096.9	3107.5	3129.2	3172.8	3145.5	3129.2	3150.8	3145.5	3194.4	3199.8	3199.8
25°	3037.3	3048.3	3075.2	3102.2	3085.9	3069.9	3085.9	3085.9	3123.8	3129.2	3129.2
27.5°	2950.7	2956.0	2983.0	3010.3	2994.0	2972.3	2994.0	2988.7	3026.3	3031.9	3026.3
30°	2809.9	2820.8	2831.5	2869.5	2853.1	2836.8	2858.5	2847.8	2885.8	2885.8	2880.1
32.5°	2631.1	2631.1	2653.0	2680.0	2658.4	2647.4	2663.7	2669.0	2696.3	2696.3	2680.0
35°	2414.6	2425.6	2441.6	2457.9	2441.6	2431.0	2447.3	2441.6	2474.2	2463.2	2447.3
37.5°	2198.2	2203.5	2219.9	2241.5	2219.9	2203.5	2208.9	2203.5	2230.5	2230.5	2203.5
40°	1997.8	2008.8	2019.4	2041.1	2019.4	2008.8	2014.1	1997.8	2030.4	2019.4	2003.1
42.5°	1835.3	1840.6	1856.9	1867.9	1846.3	1840.6	1846.3	1835.3	1851.6	1840.6	1808.3
45°	1710.8	1710.8	1716.4	1732.4	1710.8	1705.4	1705.4	1694.4	1710.8	1689.1	1656.8
47.5°	1602.5	1607.9	1613.5	1624.2	1607.9	1591.9	1597.2	1575.6	1586.2	1569.9	1526.6
50°	1494.3	1505.0	1510.6	1521.3	1505.0	1494.3	1499.7	1478.0	1478.0	1451.0	1413.1
52.5°	1386.1	1391.4	1386.1	1396.8	1386.1	1369.8	1375.1	1353.5	1353.5	1321.2	1283.2
55°	1207.3	1212.6	1218.3	1229.0	1218.3	1202.0	1212.6	1196.7	1196.7	1174.7	1131.4
57.5°	1028.5	1034.2	1039.5	1044.8	1044.8	1034.2	1039.5	1028.5	1023.2	1006.9	974.6
60°	915.0	915.0	915.0	920.3	915.0	909.7	909.7	898.7	898.7	877.0	844.7
62.5°	828.4	833.7	833.7	839.1	833.7	828.4	823.1	812.1	806.8	785.1	757.8
65°	747.2	747.2	741.8	752.5	747.2	741.8	741.8	730.9	720.2	698.6	671.2
67.5°	649.6	654.9	649.6	654.9	654.9	649.6	644.3	633.3	628.0	611.6	579.4
70°	546.7	546.7	546.7	552.4	546.7	546.7	552.4	536.1	530.7	508.8	481.8
72.5°	443.8	449.5	449.5	443.8	449.5	438.5	438.5	438.5	433.2	411.5	384.2
75°	341.0	346.6	346.6	351.9	346.6	341.0	341.0	335.6	330.3	314.0	292.3
77.5°	254.4	254.4	259.7	259.7	259.7	254.4	254.4	243.7	243.7	232.7	211.1
80°	184.1	184.1	178.8	184.1	184.1	178.8	178.8	173.1	173.1	162.5	146.2
82.5°	119.2	124.5	124.5	124.5	124.5	119.2	119.2	119.2	113.5	108.2	97.6
85°	75.9	75.9	75.9	75.9	81.2	75.9	81.2	75.9	75.9	64.9	59.6
87.5°	32.6	32.6	32.6	38.0	38.0	32.6	32.6	32.6	32.6	32.6	27.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1
2.5°	3513.7	3519.1	3502.8	3524.4	3508.4	3513.7	3519.1	3513.7	3492.1	3492.1	3551.7
5°	3492.1	3502.8	3486.8	3513.7	3502.8	3502.8	3513.7	3508.4	3486.8	3492.1	3546.0
7.5°	3470.5	3486.8	3475.8	3502.8	3486.8	3486.8	3497.4	3497.4	3475.8	3481.1	3530.1
10°	3437.8	3459.5	3454.1	3481.1	3465.1	3465.1	3481.1	3481.1	3459.5	3465.1	3513.7
12.5°	3410.9	3432.5	3427.2	3454.1	3443.5	3448.8	3454.1	3465.1	3437.8	3448.8	3492.1
15°	3367.6	3389.2	3389.2	3416.2	3405.5	3416.2	3427.2	3443.5	3421.5	3421.5	3465.1
17.5°	3319.0	3345.9	3345.9	3367.6	3367.6	3372.9	3394.5	3410.9	3389.2	3394.5	3432.5
20°	3264.7	3297.3	3297.3	3324.3	3319.0	3329.6	3345.9	3362.2	3340.6	3340.6	3383.9
22.5°	3210.4	3237.7	3243.0	3259.4	3259.4	3264.7	3281.0	3291.7	3264.7	3264.7	3308.0
25°	3134.8	3161.8	3167.1	3178.1	3167.1	3167.1	3178.1	3188.8	3161.8	3161.8	3199.8
27.5°	3031.9	3058.9	3058.9	3053.6	3042.6	3048.3	3042.6	3048.3	3021.0	3015.6	3053.6
30°	2880.1	2896.4	2896.4	2891.1	2874.8	2874.8	2858.5	2864.1	2826.2	2826.2	2858.5
32.5°	2674.7	2690.7	2680.0	2669.0	2647.4	2636.7	2625.7	2620.4	2582.4	2582.4	2620.4
35°	2431.0	2441.6	2425.6	2404.0	2376.7	2360.4	2344.4	2322.7	2295.4	2301.1	2322.7
37.5°	2181.9	2181.9	2160.3	2117.0	2095.3	2068.0	2041.1	2041.1	1997.8	1992.4	2008.8
40°	1970.8	1949.2	1911.2	1851.6	1813.6	1786.7	1748.7	1727.1	1694.4	1694.4	1721.7
42.5°	1781.3	1738.1	1689.1	1607.9	1569.9	1537.6	1489.0	1467.4	1429.4	1423.7	1440.1
45°	1613.5	1569.9	1499.7	1413.1	1364.5	1326.5	1255.9	1229.0	1196.7	1191.0	1202.0
47.5°	1478.0	1429.4	1342.8	1229.0	1180.3	1131.4	1061.1	1023.2	996.2	979.9	996.2
50°	1358.8	1293.9	1202.0	1082.8	1017.9	974.6	888.0	850.1	812.1	801.4	806.8
52.5°	1229.0	1164.0	1066.5	941.9	882.3	817.4	736.2	682.2	649.6	633.3	649.6
55°	1088.1	1023.2	926.0	801.4	736.2	676.9	590.0	546.7	508.8	492.8	508.8
57.5°	936.6	877.0	790.5	665.9	606.3	552.4	471.1	427.9	389.9	378.9	389.9
60°	806.8	757.8	671.2	552.4	503.4	443.8	373.6	330.3	297.7	292.3	297.7
62.5°	720.2	665.9	584.7	471.1	422.2	373.6	308.7	265.4	238.1	232.7	238.1
65°	633.3	574.0	498.1	400.6	351.9	314.0	249.1	211.1	184.1	178.8	184.1
67.5°	536.1	481.8	416.9	330.3	292.3	254.4	200.4	162.5	140.8	135.5	140.8
70°	443.8	395.2	330.3	265.4	227.4	200.4	151.5	124.5	102.9	97.6	102.9
72.5°	351.9	308.7	254.4	200.4	178.8	151.5	119.2	91.9	75.9	70.3	75.9
75°	270.7	238.1	194.8	146.2	129.9	113.5	81.2	64.9	54.3	48.6	54.3
77.5°	189.5	167.8	135.5	108.2	91.9	81.2	59.6	43.3	38.0	32.6	38.0
80°	129.9	113.5	91.9	70.3	59.6	48.6	38.0	27.0	21.6	21.6	21.6
82.5°	86.6	70.3	54.3	43.3	38.0	32.6	21.6	16.3	16.3	11.0	11.0
85°	48.6	43.3	32.6	27.0	21.6	16.3	11.0	11.0	5.3	5.3	5.3
87.5°	21.6	16.3	11.0	11.0	5.3	5.3	5.3	5.3	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°	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1
2.5°	3535.4	3519.1	3540.7	3519.1	3508.4	3519.1	3508.4	3540.7	3513.7	3492.1	3513.7
5°	3530.1	3508.4	3530.1	3513.7	3497.4	3502.8	3492.1	3524.4	3492.1	3475.8	3486.8
7.5°	3519.1	3502.8	3513.7	3497.4	3481.1	3486.8	3475.8	3502.8	3470.5	3454.1	3465.1
10°	3502.8	3486.8	3492.1	3481.1	3465.1	3465.1	3454.1	3475.8	3437.8	3416.2	3427.2
12.5°	3481.1	3459.5	3470.5	3454.1	3432.5	3432.5	3421.5	3437.8	3399.9	3378.2	3383.9
15°	3454.1	3432.5	3432.5	3416.2	3394.5	3394.5	3372.9	3389.2	3345.9	3324.3	3324.3
17.5°	3421.5	3394.5	3394.5	3378.2	3351.3	3345.9	3329.6	3345.9	3297.3	3275.3	3275.3
20°	3372.9	3351.3	3345.9	3334.9	3308.0	3302.6	3281.0	3286.3	3248.4	3232.1	3226.7
22.5°	3308.0	3286.3	3291.7	3275.3	3253.7	3248.4	3226.7	3243.0	3205.1	3188.8	3194.4
25°	3194.4	3183.4	3194.4	3188.8	3172.8	3172.8	3161.8	3172.8	3140.2	3129.2	3134.8
27.5°	3064.2	3058.9	3064.2	3064.2	3053.6	3053.6	3053.6	3069.9	3037.3	3031.9	3031.9
30°	2874.8	2874.8	2880.1	2885.8	2885.8	2896.4	2891.1	2912.7	2891.1	2880.1	2891.1
32.5°	2625.7	2647.4	2663.7	2663.7	2663.7	2674.7	2685.3	2701.6	2680.0	2685.3	2685.3
35°	2344.4	2360.4	2371.4	2398.3	2382.3	2420.0	2431.0	2452.6	2447.3	2457.9	2452.6
37.5°	2030.4	2052.0	2073.7	2111.6	2106.0	2149.3	2170.9	2214.2	2203.5	2225.2	2235.8
40°	1738.1	1770.4	1803.0	1830.0	1851.6	1894.9	1938.2	1992.4	2008.8	2024.7	2030.4
42.5°	1456.4	1489.0	1542.9	1580.9	1613.5	1683.8	1743.4	1808.3	1824.6	1856.9	1867.9
45°	1229.0	1255.9	1321.2	1369.8	1396.8	1499.7	1569.9	1651.2	1678.5	1716.4	1732.4
47.5°	1017.9	1066.5	1131.4	1191.0	1229.0	1337.2	1429.4	1516.0	1553.9	1597.2	1618.9
50°	833.7	888.0	974.6	1028.5	1082.8	1202.0	1304.9	1396.8	1434.7	1483.3	1505.0
52.5°	682.2	741.8	823.1	882.3	941.9	1066.5	1174.7	1261.6	1310.2	1342.8	1375.1
55°	536.1	601.0	682.2	747.2	795.8	931.3	1023.2	1109.8	1142.4	1169.4	1185.7
57.5°	416.9	465.5	546.7	601.0	660.6	779.5	871.7	936.6	963.6	996.2	1006.9
60°	325.0	373.6	449.5	503.4	557.7	671.2	763.5	828.4	855.4	882.3	898.7
62.5°	259.7	308.7	378.9	427.9	476.5	579.4	660.6	725.5	757.8	785.1	801.4
65°	205.8	249.1	308.7	357.3	395.2	487.1	568.4	628.0	660.6	687.6	703.9
67.5°	162.5	200.4	254.4	287.0	325.0	400.6	471.1	525.1	552.4	584.7	601.0
70°	124.5	151.5	200.4	227.4	254.4	319.3	373.6	427.9	454.8	476.5	487.1
72.5°	91.9	113.5	151.5	173.1	189.5	243.7	287.0	325.0	346.6	368.3	378.9
75°	64.9	81.2	108.2	124.5	135.5	173.1	211.1	238.1	254.4	270.7	287.0
77.5°	43.3	54.3	70.3	81.2	91.9	119.2	140.8	162.5	178.8	194.8	200.4
80°	27.0	38.0	48.6	54.3	59.6	75.9	97.6	108.2	119.2	129.9	135.5
82.5°	16.3	21.6	27.0	32.6	38.0	48.6	59.6	70.3	75.9	86.6	91.9
85°	5.3	11.0	11.0	16.3	16.3	27.0	32.6	38.0	43.3	48.6	54.3
87.5°	0.0	0.0	5.3	5.3	5.3	5.3	11.0	11.0	11.0	11.0	11.0
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: P880609

CATALOG NUMBER: LD4C75D010 EU4759035 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1	3519.1
2.5°	3535.4	3519.1	3508.4	3502.8	3540.7	3492.1	3513.7	3519.1
5°	3513.7	3497.4	3486.8	3481.1	3513.7	3470.5	3486.8	3497.4
7.5°	3481.1	3470.5	3454.1	3448.8	3481.1	3432.5	3454.1	3459.5
10°	3443.5	3427.2	3416.2	3410.9	3437.8	3389.2	3410.9	3410.9
12.5°	3394.5	3383.9	3362.2	3362.2	3383.9	3340.6	3356.6	3356.6
15°	3329.6	3319.0	3297.3	3297.3	3319.0	3275.3	3291.7	3291.7
17.5°	3275.3	3264.7	3248.4	3243.0	3264.7	3221.4	3237.7	3232.1
20°	3232.1	3221.4	3199.8	3199.8	3216.1	3172.8	3188.8	3188.8
22.5°	3194.4	3188.8	3167.1	3167.1	3188.8	3145.5	3156.5	3145.5
25°	3134.8	3129.2	3107.5	3113.2	3123.8	3080.6	3096.9	3085.9
27.5°	3037.3	3037.3	3015.6	3010.3	3026.3	2988.7	2999.3	2994.0
30°	2885.8	2891.1	2864.1	2864.1	2869.5	2836.8	2853.1	2847.8
32.5°	2680.0	2685.3	2663.7	2658.4	2674.7	2647.4	2658.4	2658.4
35°	2452.6	2457.9	2441.6	2441.6	2457.9	2441.6	2441.6	2436.3
37.5°	2225.2	2235.8	2225.2	2230.5	2241.5	2225.2	2235.8	2230.5
40°	2041.1	2052.0	2035.7	2046.4	2057.4	2041.1	2057.4	2046.4
42.5°	1873.2	1889.6	1878.6	1889.6	1900.2	1889.6	1900.2	1884.2
45°	1748.7	1759.7	1754.0	1759.7	1770.4	1765.0	1770.4	1765.0
47.5°	1629.5	1651.2	1640.5	1651.2	1667.5	1656.8	1667.5	1651.2
50°	1521.3	1537.6	1532.3	1542.9	1548.3	1542.9	1553.9	1537.6
52.5°	1380.5	1396.8	1391.4	1391.4	1402.1	1391.4	1402.1	1391.4
55°	1196.7	1202.0	1202.0	1207.3	1202.0	1196.7	1202.0	1191.0
57.5°	1017.9	1028.5	1012.5	1028.5	1023.2	1017.9	1017.9	1006.9
60°	904.0	920.3	909.7	920.3	915.0	915.0	915.0	909.7
62.5°	812.1	823.1	812.1	817.4	817.4	817.4	812.1	806.8
65°	709.2	725.5	714.5	720.2	714.5	709.2	714.5	709.2
67.5°	606.3	611.6	611.6	606.3	606.3	606.3	606.3	595.7
70°	492.8	498.1	492.8	503.4	498.1	492.8	498.1	487.1
72.5°	384.2	389.9	384.2	389.9	384.2	384.2	384.2	384.2
75°	287.0	292.3	292.3	292.3	292.3	292.3	281.7	292.3
77.5°	205.8	205.8	205.8	211.1	205.8	205.8	205.8	205.8
80°	140.8	140.8	140.8	146.2	140.8	146.2	140.8	146.2
82.5°	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
85°	48.6	54.3	54.3	48.6	48.6	48.6	48.6	48.6
87.5°	11.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)