

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: P880608

Luminaire Tested: **LD4C75D010 EU4759030 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: P880608  
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 EU4759030 4LBDWNH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

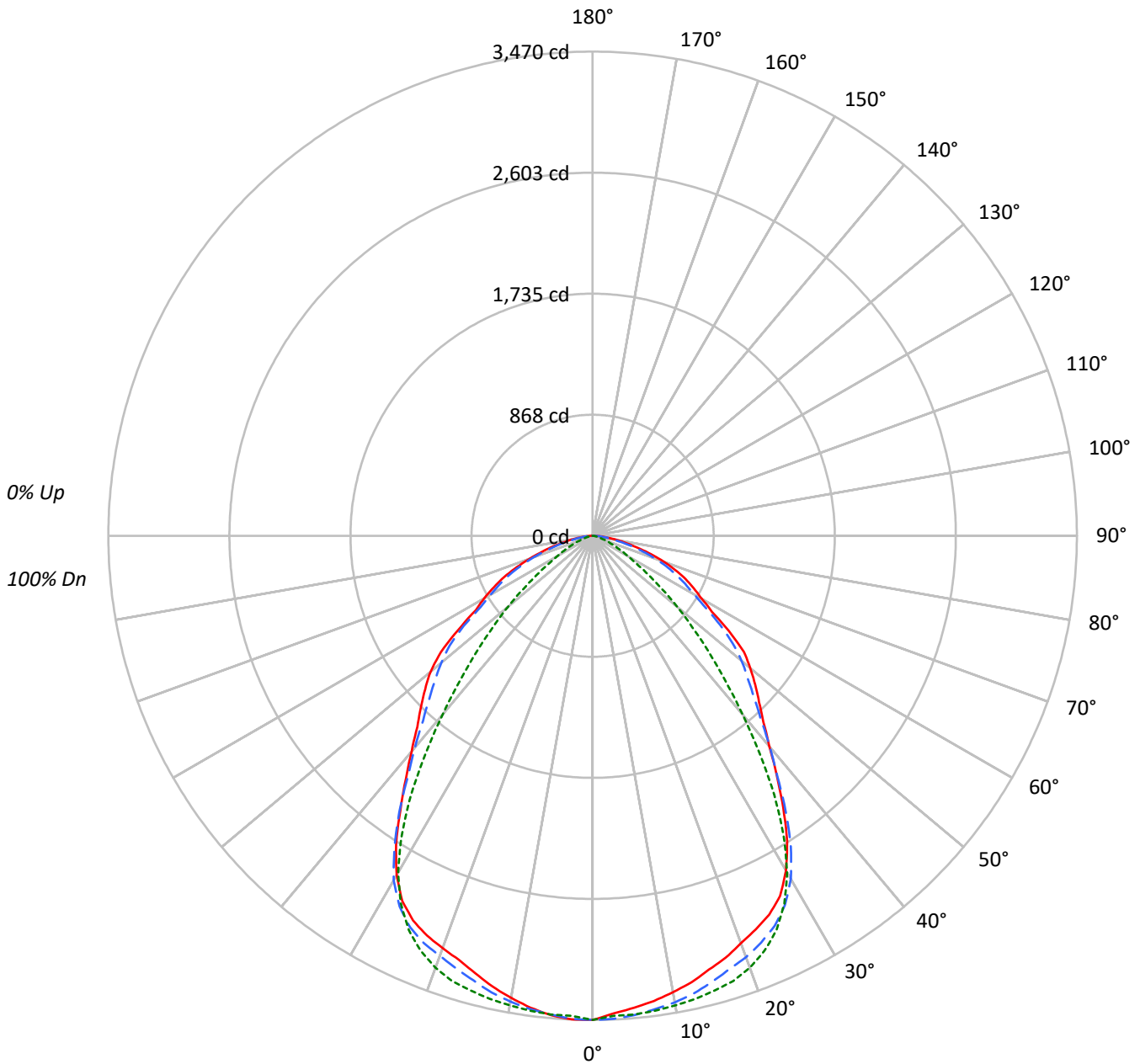
Lumens per Lamp: N/A  
Luminaire Lumens: 7062.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	426289	426289	426289
5°	418730	424637	425291
10°	414240	426229	419555
15°	409429	429092	412812
20°	406177	430651	411066
25°	405970	422616	412463
30°	393034	395318	398354
35°	357079	340296	360288
40°	315920	267953	323602
45°	293084	204041	302379
50°	281624	151028	289766
55°	254991	104074	251543
60°	221677	70837	220375
65°	214156	51250	203284
70°	193644	34555	172524
75°	159584	22737	136847
80°	128479	15069	101949
85°	105578	7471	67519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.6	4.6
10°-20°	936.6	13.3
20°-30°	1415.0	20.0
30°-40°	1480.8	21.0
40°-50°	1199.3	17.0
50°-60°	872.3	12.4
60°-70°	538.0	7.6
70°-80°	243.1	3.4
80°-90°	49.4	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°	2679.1	37.9
0°-40°	4159.9	58.9
0°-60°	6231.5	88.2
0°-90°	7062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3470	3470	3470	3470	3470	
5°	3395	3449	3443	3443	3449	322
15°	3219	3310	3374	3299	3246	910
25°	2995	3086	3118	3096	3043	1372
35°	2381	2413	2269	2413	2402	1484
45°	1687	1634	1174	1655	1740	1311
55°	1190	1116	486	1126	1174	1062
65°	737	662	176	651	699	721
75°	336	288	48	251	288	365
85°	75	59	5	43	48	86
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°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3427.3	3427.3	3459.4	3496.5	3464.7	3432.5	3453.8	3443.3	3480.8	3480.8	3464.7
5°	3395.4	3405.9	3432.5	3464.7	3438.1	3405.9	3432.5	3422.0	3459.4	3459.4	3448.6
7.5°	3363.2	3368.5	3400.7	3438.1	3411.2	3379.3	3400.7	3395.4	3427.3	3432.5	3422.0
10°	3320.6	3325.8	3358.0	3395.4	3368.5	3341.9	3363.2	3358.0	3400.7	3400.7	3395.4
12.5°	3277.9	3283.1	3315.3	3347.1	3320.6	3294.0	3315.3	3315.3	3358.0	3363.2	3358.0
15°	3219.1	3229.6	3256.5	3288.4	3272.6	3240.4	3261.8	3261.8	3299.2	3309.7	3309.7
17.5°	3171.2	3176.4	3203.0	3235.2	3213.8	3186.9	3208.3	3208.3	3245.7	3256.5	3256.5
20°	3106.8	3117.7	3144.2	3176.4	3160.3	3139.0	3155.1	3155.1	3197.8	3208.3	3213.8
22.5°	3053.6	3064.1	3085.5	3128.5	3101.6	3085.5	3106.8	3101.6	3149.8	3155.1	3155.1
25°	2994.9	3005.7	3032.3	3058.9	3042.8	3027.0	3042.8	3042.8	3080.2	3085.5	3085.5
27.5°	2909.5	2914.8	2941.3	2968.3	2952.2	2930.8	2952.2	2946.9	2984.0	2989.6	2984.0
30°	2770.6	2781.5	2792.0	2829.4	2813.3	2797.2	2818.6	2808.1	2845.5	2845.5	2839.9
32.5°	2594.3	2594.3	2616.0	2642.6	2621.2	2610.4	2626.5	2631.8	2658.7	2658.7	2642.6
35°	2380.9	2391.8	2407.5	2423.6	2407.5	2397.0	2413.1	2407.5	2439.7	2428.9	2413.1
37.5°	2167.5	2172.8	2188.9	2210.2	2188.9	2172.8	2178.0	2172.8	2199.4	2199.4	2172.8
40°	1969.9	1980.7	1991.2	2012.6	1991.2	1980.7	1986.0	1969.9	2002.0	1991.2	1975.1
42.5°	1809.7	1814.9	1831.0	1841.8	1820.5	1814.9	1820.5	1809.7	1825.7	1814.9	1783.1
45°	1686.9	1686.9	1692.4	1708.2	1686.9	1681.6	1681.6	1670.8	1686.9	1665.5	1633.7
47.5°	1580.2	1585.4	1591.0	1601.5	1585.4	1569.7	1574.9	1553.6	1564.1	1548.0	1505.3
50°	1473.5	1484.0	1489.6	1500.1	1484.0	1473.5	1478.7	1457.4	1457.4	1430.8	1393.4
52.5°	1366.8	1372.0	1366.8	1377.3	1366.8	1350.7	1355.9	1334.6	1334.6	1302.7	1265.3
55°	1190.5	1195.7	1201.3	1211.8	1201.3	1185.2	1195.7	1180.0	1180.0	1158.3	1115.6
57.5°	1014.2	1019.7	1025.0	1030.2	1030.2	1019.7	1025.0	1014.2	1008.9	992.8	961.0
60°	902.2	902.2	902.2	907.5	902.2	896.9	896.9	886.1	886.1	864.8	832.9
62.5°	816.8	822.1	822.1	827.3	822.1	816.8	811.6	800.8	795.5	774.2	747.2
65°	736.7	736.7	731.5	742.0	736.7	731.5	731.5	720.6	710.1	688.8	661.9
67.5°	640.5	645.8	640.5	645.8	645.8	640.5	635.3	624.4	619.2	603.1	571.3
70°	539.1	539.1	539.1	544.7	539.1	539.1	544.7	528.6	523.3	501.7	475.1
72.5°	437.6	443.2	443.2	437.6	443.2	432.4	432.4	432.4	427.1	405.8	378.9
75°	336.2	341.8	341.8	347.0	341.8	336.2	336.2	330.9	325.7	309.6	288.3
77.5°	250.8	250.8	256.1	256.1	256.1	250.8	250.8	240.3	240.3	229.5	208.1
80°	181.6	181.6	176.3	181.6	181.6	176.3	176.3	170.7	170.7	160.2	144.1
82.5°	117.5	122.8	122.8	122.8	122.8	117.5	117.5	117.5	112.0	106.7	96.2
85°	74.9	74.9	74.9	74.9	80.1	74.9	80.1	74.9	74.9	64.0	58.8
87.5°	32.2	32.2	32.2	37.4	37.4	32.2	32.2	32.2	32.2	32.2	26.6
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°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3464.7	3469.9	3453.8	3475.2	3459.4	3464.7	3469.9	3464.7	3443.3	3443.3	3502.1
5°	3443.3	3453.8	3438.1	3464.7	3453.8	3453.8	3464.7	3459.4	3438.1	3443.3	3496.5
7.5°	3422.0	3438.1	3427.3	3453.8	3438.1	3438.1	3448.6	3448.6	3427.3	3432.5	3480.8
10°	3389.8	3411.2	3405.9	3432.5	3416.7	3416.7	3432.5	3432.5	3411.2	3416.7	3464.7
12.5°	3363.2	3384.6	3379.3	3405.9	3395.4	3400.7	3405.9	3416.7	3389.8	3400.7	3443.3
15°	3320.6	3341.9	3341.9	3368.5	3358.0	3368.5	3379.3	3395.4	3373.7	3373.7	3416.7
17.5°	3272.6	3299.2	3299.2	3320.6	3320.6	3325.8	3347.1	3363.2	3341.9	3347.1	3384.6
20°	3219.1	3251.3	3251.3	3277.9	3272.6	3283.1	3299.2	3315.3	3294.0	3294.0	3336.6
22.5°	3165.6	3192.5	3197.8	3213.8	3213.8	3219.1	3235.2	3245.7	3219.1	3219.1	3261.8
25°	3091.1	3117.7	3122.9	3133.7	3122.9	3122.9	3133.7	3144.2	3117.7	3117.7	3155.1
27.5°	2989.6	3016.2	3016.2	3011.0	3000.1	3005.7	3000.1	3005.7	2978.8	2973.5	3011.0
30°	2839.9	2856.0	2856.0	2850.7	2834.6	2834.6	2818.6	2824.1	2786.7	2786.7	2818.6
32.5°	2637.3	2653.1	2642.6	2631.8	2610.4	2599.9	2589.1	2583.8	2546.4	2546.4	2583.8
35°	2397.0	2407.5	2391.8	2370.4	2343.5	2327.4	2311.6	2290.3	2263.4	2269.0	2290.3
37.5°	2151.4	2151.4	2130.1	2087.4	2066.1	2039.1	2012.6	2012.6	1969.9	1964.6	1980.7
40°	1943.3	1921.9	1884.5	1825.7	1788.3	1761.7	1724.3	1703.0	1670.8	1670.8	1697.7
42.5°	1756.5	1713.8	1665.5	1585.4	1548.0	1516.1	1468.2	1446.9	1409.4	1403.9	1420.0
45°	1591.0	1548.0	1478.7	1393.4	1345.4	1308.0	1238.4	1211.8	1180.0	1174.4	1185.2
47.5°	1457.4	1409.4	1324.1	1211.8	1163.9	1115.6	1046.3	1008.9	982.3	966.2	982.3
50°	1339.8	1275.8	1185.2	1067.7	1003.7	961.0	875.6	838.2	800.8	790.2	795.5
52.5°	1211.8	1147.8	1051.6	928.8	870.0	806.0	725.9	672.7	640.5	624.4	640.5
55°	1072.9	1008.9	913.0	790.2	725.9	667.5	581.8	539.1	501.7	485.9	501.7
57.5°	923.5	864.8	779.4	656.6	597.9	544.7	464.6	421.9	384.5	373.6	384.5
60°	795.5	747.2	661.9	544.7	496.4	437.6	368.4	325.7	293.5	288.3	293.5
62.5°	710.1	656.6	576.5	464.6	416.3	368.4	304.3	261.7	234.7	229.5	234.7
65°	624.4	566.0	491.2	395.0	347.0	309.6	245.6	208.1	181.6	176.3	181.6
67.5°	528.6	475.1	411.0	325.7	288.3	250.8	197.6	160.2	138.9	133.6	138.9
70°	437.6	389.7	325.7	261.7	224.2	197.6	149.4	122.8	101.4	96.2	101.4
72.5°	347.0	304.3	250.8	197.6	176.3	149.4	117.5	90.6	74.9	69.3	74.9
75°	266.9	234.7	192.1	144.1	128.0	112.0	80.1	64.0	53.5	47.9	53.5
77.5°	186.8	165.5	133.6	106.7	90.6	80.1	58.8	42.7	37.4	32.2	37.4
80°	128.0	112.0	90.6	69.3	58.8	47.9	37.4	26.6	21.3	21.3	21.3
82.5°	85.4	69.3	53.5	42.7	37.4	32.2	21.3	16.1	16.1	10.8	10.8
85°	47.9	42.7	32.2	26.6	21.3	16.1	10.8	10.8	5.3	5.3	5.3
87.5°	21.3	16.1	10.8	10.8	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°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3486.0	3469.9	3491.3	3469.9	3459.4	3469.9	3459.4	3491.3	3464.7	3443.3	3464.7
5°	3480.8	3459.4	3480.8	3464.7	3448.6	3453.8	3443.3	3475.2	3443.3	3427.3	3438.1
7.5°	3469.9	3453.8	3464.7	3448.6	3432.5	3438.1	3427.3	3453.8	3422.0	3405.9	3416.7
10°	3453.8	3438.1	3443.3	3432.5	3416.7	3416.7	3405.9	3427.3	3389.8	3368.5	3379.3
12.5°	3432.5	3411.2	3422.0	3405.9	3384.6	3384.6	3373.7	3389.8	3352.4	3331.1	3336.6
15°	3405.9	3384.6	3384.6	3368.5	3347.1	3347.1	3325.8	3341.9	3299.2	3277.9	3277.9
17.5°	3373.7	3347.1	3347.1	3331.1	3304.5	3299.2	3283.1	3299.2	3251.3	3229.6	3229.6
20°	3325.8	3304.5	3299.2	3288.4	3261.8	3256.5	3235.2	3240.4	3203.0	3186.9	3181.7
22.5°	3261.8	3240.4	3245.7	3229.6	3208.3	3203.0	3181.7	3197.8	3160.3	3144.2	3149.8
25°	3149.8	3139.0	3149.8	3144.2	3128.5	3128.5	3117.7	3128.5	3096.3	3085.5	3091.1
27.5°	3021.5	3016.2	3021.5	3021.5	3011.0	3011.0	3011.0	3027.0	2994.9	2989.6	2989.6
30°	2834.6	2834.6	2839.9	2845.5	2845.5	2856.0	2850.7	2872.1	2850.7	2839.9	2850.7
32.5°	2589.1	2610.4	2626.5	2626.5	2626.5	2637.3	2647.8	2663.9	2642.6	2647.8	2647.8
35°	2311.6	2327.4	2338.2	2364.8	2349.1	2386.2	2397.0	2418.3	2413.1	2423.6	2418.3
37.5°	2002.0	2023.4	2044.7	2082.2	2076.6	2119.3	2140.6	2183.3	2172.8	2194.1	2204.6
40°	1713.8	1745.6	1777.8	1804.4	1825.7	1868.4	1911.1	1964.6	1980.7	1996.5	2002.0
42.5°	1436.0	1468.2	1521.4	1558.8	1591.0	1660.3	1719.0	1783.1	1799.2	1831.0	1841.8
45°	1211.8	1238.4	1302.7	1350.7	1377.3	1478.7	1548.0	1628.1	1655.0	1692.4	1708.2
47.5°	1003.7	1051.6	1115.6	1174.4	1211.8	1318.5	1409.4	1494.8	1532.2	1574.9	1596.3
50°	822.1	875.6	961.0	1014.2	1067.7	1185.2	1286.7	1377.3	1414.7	1462.6	1484.0
52.5°	672.7	731.5	811.6	870.0	928.8	1051.6	1158.3	1244.0	1291.9	1324.1	1355.9
55°	528.6	592.6	672.7	736.7	784.7	918.3	1008.9	1094.3	1126.4	1153.0	1169.1
57.5°	411.0	459.0	539.1	592.6	651.4	768.6	859.5	923.5	950.1	982.3	992.8
60°	320.4	368.4	443.2	496.4	549.9	661.9	752.8	816.8	843.4	870.0	886.1
62.5°	256.1	304.3	373.6	421.9	469.8	571.3	651.4	715.4	747.2	774.2	790.2
65°	202.9	245.6	304.3	352.3	389.7	480.3	560.4	619.2	651.4	678.0	694.1
67.5°	160.2	197.6	250.8	283.0	320.4	395.0	464.6	517.7	544.7	576.5	592.6
70°	122.8	149.4	197.6	224.2	250.8	314.9	368.4	421.9	448.5	469.8	480.3
72.5°	90.6	112.0	149.4	170.7	186.8	240.3	283.0	320.4	341.8	363.1	373.6
75°	64.0	80.1	106.7	122.8	133.6	170.7	208.1	234.7	250.8	266.9	283.0
77.5°	42.7	53.5	69.3	80.1	90.6	117.5	138.9	160.2	176.3	192.1	197.6
80°	26.6	37.4	47.9	53.5	58.8	74.9	96.2	106.7	117.5	128.0	133.6
82.5°	16.1	21.3	26.6	32.2	37.4	47.9	58.8	69.3	74.9	85.4	90.6
85°	5.3	10.8	10.8	16.1	16.1	26.6	32.2	37.4	42.7	47.9	53.5
87.5°	0.0	0.0	5.3	5.3	5.3	5.3	10.8	10.8	10.8	10.8	10.8
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: P880608

CATALOG NUMBER: LD4C75D010 EU4759030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3486.0	3469.9	3459.4	3453.8	3491.3	3443.3	3464.7	3469.9
5°	3464.7	3448.6	3438.1	3432.5	3464.7	3422.0	3438.1	3448.6
7.5°	3432.5	3422.0	3405.9	3400.7	3432.5	3384.6	3405.9	3411.2
10°	3395.4	3379.3	3368.5	3363.2	3389.8	3341.9	3363.2	3363.2
12.5°	3347.1	3336.6	3315.3	3315.3	3336.6	3294.0	3309.7	3309.7
15°	3283.1	3272.6	3251.3	3251.3	3272.6	3229.6	3245.7	3245.7
17.5°	3229.6	3219.1	3203.0	3197.8	3219.1	3176.4	3192.5	3186.9
20°	3186.9	3176.4	3155.1	3155.1	3171.2	3128.5	3144.2	3144.2
22.5°	3149.8	3144.2	3122.9	3122.9	3144.2	3101.6	3112.4	3101.6
25°	3091.1	3085.5	3064.1	3069.7	3080.2	3037.5	3053.6	3042.8
27.5°	2994.9	2994.9	2973.5	2968.3	2984.0	2946.9	2957.4	2952.2
30°	2845.5	2850.7	2824.1	2824.1	2829.4	2797.2	2813.3	2808.1
32.5°	2642.6	2647.8	2626.5	2621.2	2637.3	2610.4	2621.2	2621.2
35°	2418.3	2423.6	2407.5	2407.5	2423.6	2407.5	2407.5	2402.3
37.5°	2194.1	2204.6	2194.1	2199.4	2210.2	2194.1	2204.6	2199.4
40°	2012.6	2023.4	2007.3	2017.8	2028.6	2012.6	2028.6	2017.8
42.5°	1847.1	1863.2	1852.3	1863.2	1873.7	1863.2	1873.7	1857.9
45°	1724.3	1735.1	1729.5	1735.1	1745.6	1740.4	1745.6	1740.4
47.5°	1606.8	1628.1	1617.6	1628.1	1644.2	1633.7	1644.2	1628.1
50°	1500.1	1516.1	1510.9	1521.4	1526.7	1521.4	1532.2	1516.1
52.5°	1361.2	1377.3	1372.0	1372.0	1382.5	1372.0	1382.5	1372.0
55°	1180.0	1185.2	1185.2	1190.5	1185.2	1180.0	1185.2	1174.4
57.5°	1003.7	1014.2	998.4	1014.2	1008.9	1003.7	1003.7	992.8
60°	891.4	907.5	896.9	907.5	902.2	902.2	902.2	896.9
62.5°	800.8	811.6	800.8	806.0	806.0	806.0	800.8	795.5
65°	699.3	715.4	704.6	710.1	704.6	699.3	704.6	699.3
67.5°	597.9	603.1	603.1	597.9	597.9	597.9	597.9	587.4
70°	485.9	491.2	485.9	496.4	491.2	485.9	491.2	480.3
72.5°	378.9	384.5	378.9	384.5	378.9	378.9	378.9	378.9
75°	283.0	288.3	288.3	288.3	288.3	288.3	277.8	288.3
77.5°	202.9	202.9	202.9	208.1	202.9	202.9	202.9	202.9
80°	138.9	138.9	138.9	144.1	138.9	144.1	138.9	144.1
82.5°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
85°	47.9	53.5	53.5	47.9	47.9	47.9	47.9	47.9
87.5°	10.8	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)