

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: P879486

Luminaire Tested: **LD4C70D010 EU4709050 4LBDWWH**

Issue Date: 10/1/2024

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: P879486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709050 4LBLDWWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

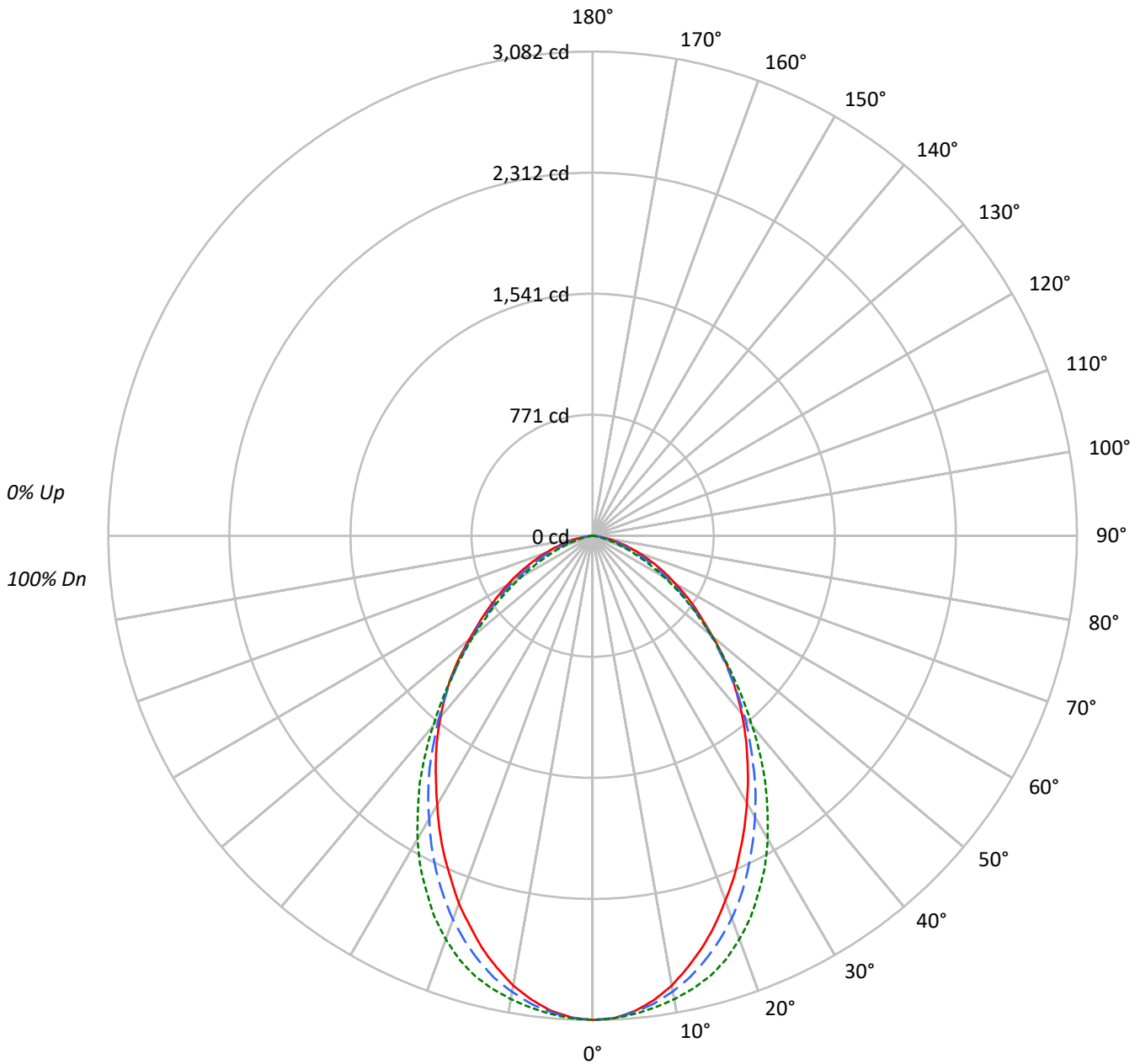
Lumens per Lamp: N/A
Luminaire Lumens: 5512.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59				59				
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52				52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35				
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32				32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	378598	378598	378598
5°	374741	376825	374322
10°	362545	373560	362694
15°	344449	368780	345593
20°	322844	357176	325511
25°	300685	338885	303437
30°	278540	316104	280625
35°	256970	287355	260869
40°	237033	253182	241395
45°	214709	219435	221207
50°	190342	187972	195102
55°	169680	158285	173557
60°	148481	128480	154058
65°	129941	99360	134563
70°	109340	72774	115052
75°	85393	47277	90235
80°	56033	24833	61622
85°	19170	11136	25513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	5.2
10°-20°	786.0	14.3
20°-30°	1081.0	19.6
30°-40°	1127.8	20.5
40°-50°	964.9	17.5
50°-60°	690.2	12.5
60°-70°	400.5	7.3
70°-80°	154.4	2.8
80°-90°	19.6	0.4
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°	2154.7	39.1
0°-40°	3282.5	59.6
0°-60°	4937.5	89.6
0°-90°	5512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5512.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3082	3082	3082	3082	3082	
5°	3039	3044	3056	3044	3035	286
15°	2708	2790	2900	2800	2717	759
25°	2218	2340	2500	2355	2238	1020
35°	1713	1781	1916	1810	1739	1073
45°	1236	1226	1263	1256	1273	953
55°	792	753	739	773	810	708
65°	447	395	342	408	463	446
75°	180	135	100	143	190	194
85°	14	10	8	11	18	26
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°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
2.5°	3073.7	3071.5	3072.6	3072.6	3072.6	3071.5	3073.7	3073.7	3072.6	3072.6	3072.6
5°	3038.7	3036.4	3037.5	3038.7	3038.7	3038.7	3039.8	3040.9	3042.1	3043.2	3044.3
7.5°	2982.1	2978.7	2982.1	2986.6	2986.6	2987.7	2988.9	2990.0	2993.4	2999.0	3002.4
10°	2906.2	2906.2	2907.4	2910.8	2916.4	2915.3	2918.7	2924.4	2931.1	2939.1	2944.7
12.5°	2810.0	2812.3	2815.7	2819.1	2824.8	2828.2	2833.8	2840.6	2851.9	2863.2	2875.7
15°	2708.2	2709.3	2710.5	2718.4	2724.0	2732.0	2736.5	2750.1	2760.3	2776.1	2789.7
17.5°	2593.9	2592.8	2596.2	2602.9	2616.5	2619.9	2625.6	2640.3	2655.0	2676.5	2694.6
20°	2469.4	2476.2	2480.7	2489.8	2497.7	2506.8	2511.3	2529.4	2546.4	2566.7	2590.5
22.5°	2351.7	2346.0	2354.0	2364.2	2370.9	2377.7	2385.7	2404.9	2423.0	2447.9	2471.7
25°	2218.2	2221.6	2227.2	2235.1	2244.2	2253.2	2262.3	2282.7	2292.9	2318.9	2340.4
27.5°	2091.4	2097.1	2099.3	2109.5	2117.4	2124.2	2128.8	2152.5	2161.6	2184.2	2205.7
30°	1963.5	1969.2	1969.2	1980.5	1986.2	1993.0	2004.3	2020.1	2033.7	2049.5	2065.4
32.5°	1840.2	1840.2	1844.7	1854.9	1860.5	1868.5	1871.9	1883.2	1896.8	1912.6	1929.6
35°	1713.4	1716.8	1721.3	1721.3	1731.5	1736.1	1740.6	1751.9	1760.9	1767.7	1781.3
37.5°	1596.9	1596.9	1593.5	1599.1	1605.9	1604.8	1611.6	1617.2	1622.9	1630.8	1642.1
40°	1478.0	1478.0	1473.5	1476.9	1481.4	1480.3	1478.0	1483.7	1488.2	1493.9	1505.2
42.5°	1356.9	1354.7	1353.5	1353.5	1355.8	1353.5	1355.8	1356.9	1356.9	1356.9	1363.7
45°	1235.8	1241.5	1234.7	1232.4	1229.0	1225.6	1224.5	1225.6	1230.2	1224.5	1225.6
47.5°	1117.0	1119.3	1114.7	1111.3	1107.9	1105.7	1107.9	1101.2	1103.4	1104.6	1100.0
50°	995.9	991.4	991.4	988.0	989.1	988.0	985.7	983.5	983.5	977.8	974.4
52.5°	883.9	886.1	888.4	880.5	881.6	875.9	877.1	871.4	871.4	864.6	866.9
55°	792.2	788.8	788.8	785.4	784.3	778.6	777.5	774.1	766.2	761.6	752.6
57.5°	697.1	696.0	691.5	692.6	685.8	684.7	682.4	676.8	671.1	665.4	655.3
60°	604.3	605.5	605.5	603.2	599.8	594.2	595.3	587.4	579.4	569.3	560.2
62.5°	527.4	524.0	522.9	520.6	513.8	513.8	508.1	502.5	494.6	484.4	476.5
65°	447.0	448.2	444.8	441.4	434.6	433.4	428.9	424.4	416.5	406.3	395.0
67.5°	374.6	372.3	371.2	367.8	361.0	359.9	356.5	346.3	339.5	329.3	320.3
70°	304.4	302.2	303.3	297.6	290.9	287.5	286.3	278.4	268.2	260.3	251.2
72.5°	238.8	238.8	237.7	232.0	228.6	226.3	221.8	212.8	207.1	198.1	191.3
75°	179.9	178.8	176.5	173.2	168.6	166.4	164.1	158.4	150.5	140.3	134.7
77.5°	124.5	125.6	123.4	122.2	116.6	113.2	112.0	108.6	101.9	95.1	89.4
80°	79.2	78.1	77.0	74.7	73.6	72.4	69.0	66.8	60.0	56.6	53.2
82.5°	43.0	40.7	40.7	39.6	37.3	36.2	35.1	32.8	31.7	29.4	27.2
85°	13.6	14.7	13.6	13.6	13.6	12.4	12.4	12.4	11.3	11.3	10.2
87.5°	1.1	2.3	1.1	1.1	2.3	1.1	1.1	2.3	1.1	1.1	2.3
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°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
2.5°	3072.6	3073.7	3073.7	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9	3074.9
5°	3047.7	3047.7	3050.0	3052.2	3052.2	3052.2	3053.4	3055.6	3055.6	3055.6	3054.5
7.5°	3007.0	3011.5	3016.0	3020.5	3021.7	3022.8	3025.1	3029.6	3029.6	3029.6	3029.6
10°	2953.8	2964.0	2969.6	2976.4	2979.8	2982.1	2988.9	2990.0	2993.4	2994.5	2993.4
12.5°	2885.9	2899.5	2911.9	2923.2	2927.7	2932.3	2939.1	2945.9	2949.3	2952.6	2951.5
15°	2810.0	2824.8	2844.0	2856.5	2865.5	2872.3	2882.5	2891.5	2897.2	2899.5	2899.5
17.5°	2718.4	2736.5	2756.9	2777.2	2782.9	2794.2	2805.5	2818.0	2824.8	2825.9	2824.8
20°	2616.5	2636.9	2653.9	2674.2	2686.7	2692.4	2708.2	2724.0	2730.8	2732.0	2730.8
22.5°	2495.4	2514.7	2537.3	2558.8	2569.0	2579.2	2596.2	2612.0	2621.1	2627.8	2621.1
25°	2360.8	2387.9	2409.4	2427.5	2442.2	2452.4	2473.9	2486.4	2501.1	2500.0	2501.1
27.5°	2228.3	2251.0	2274.7	2296.3	2305.3	2316.6	2333.6	2354.0	2366.4	2374.3	2373.2
30°	2092.5	2110.6	2131.0	2150.3	2165.0	2174.0	2198.9	2208.0	2223.8	2228.3	2225.0
32.5°	1948.8	1961.3	1981.6	2007.7	2013.3	2022.4	2038.2	2060.9	2066.5	2068.8	2069.9
35°	1796.0	1819.8	1836.8	1852.6	1857.1	1865.1	1883.2	1900.2	1905.8	1916.0	1911.5
37.5°	1654.6	1668.1	1676.1	1691.9	1705.5	1712.3	1721.3	1732.7	1744.0	1748.5	1747.4
40°	1513.1	1519.9	1526.7	1543.7	1544.8	1544.8	1558.4	1574.2	1574.2	1578.7	1578.7
42.5°	1368.2	1369.4	1378.4	1387.5	1389.7	1392.0	1405.6	1407.9	1414.6	1418.0	1422.6
45°	1227.9	1234.7	1240.4	1241.5	1247.2	1248.3	1251.7	1255.1	1265.3	1263.0	1265.3
47.5°	1100.0	1103.4	1106.8	1106.8	1110.2	1109.1	1114.7	1111.3	1118.1	1120.4	1123.8
50°	974.4	980.1	976.7	978.9	977.8	981.2	978.9	978.9	978.9	983.5	986.9
52.5°	859.0	860.1	856.7	857.8	857.8	855.6	857.8	856.7	855.6	855.6	856.7
55°	752.6	748.1	745.8	741.3	735.6	742.4	739.0	736.7	741.3	739.0	741.3
57.5°	649.6	643.9	639.4	637.2	629.2	633.8	629.2	627.0	627.0	627.0	632.6
60°	552.3	546.6	541.0	534.2	533.0	530.8	528.5	522.9	524.0	522.9	525.1
62.5°	467.4	456.1	448.2	442.5	441.4	438.0	434.6	428.9	430.1	430.1	431.2
65°	389.3	376.9	365.5	357.6	357.6	352.0	346.3	346.3	339.5	341.8	342.9
67.5°	311.2	301.0	289.7	284.1	280.7	276.1	272.7	270.5	267.1	267.1	269.3
70°	241.1	230.9	225.2	216.2	215.0	211.6	207.1	203.7	202.6	202.6	201.4
72.5°	182.2	173.2	166.4	160.7	157.3	153.9	149.4	148.3	146.0	146.0	148.3
75°	126.8	121.1	115.4	109.8	107.5	106.4	103.0	100.7	100.7	99.6	100.7
77.5°	84.9	79.2	73.6	71.3	69.0	66.8	65.6	64.5	61.1	61.1	61.1
80°	48.7	46.4	44.1	40.7	40.7	39.6	37.3	36.2	35.1	35.1	35.1
82.5°	24.9	23.8	21.5	20.4	20.4	20.4	19.2	19.2	18.1	18.1	18.1
85°	10.2	9.1	7.9	7.9	7.9	7.9	7.9	7.9	9.1	7.9	9.1
87.5°	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
2.5°	3074.9	3073.7	3073.7	3073.7	3073.7	3073.7	3072.6	3072.6	3071.5	3071.5	3071.5
5°	3055.6	3054.5	3053.4	3052.2	3051.1	3050.0	3048.8	3047.7	3044.3	3043.2	3040.9
7.5°	3028.5	3026.2	3022.8	3021.7	3019.4	3016.0	3011.5	3009.2	3004.7	2999.0	2996.8
10°	2992.3	2987.7	2984.3	2978.7	2977.5	2973.0	2961.7	2956.0	2948.1	2941.3	2933.4
12.5°	2948.1	2943.6	2935.7	2927.7	2923.2	2913.0	2902.9	2893.8	2883.6	2868.9	2857.6
15°	2893.8	2887.0	2871.2	2868.9	2862.1	2846.3	2832.7	2815.7	2799.9	2784.0	2770.4
17.5°	2821.4	2806.7	2798.7	2788.5	2780.6	2760.3	2745.5	2726.3	2704.8	2686.7	2667.5
20°	2726.3	2710.5	2696.9	2691.2	2681.0	2662.9	2644.8	2621.1	2599.6	2576.9	2559.9
22.5°	2613.1	2602.9	2582.6	2575.8	2563.3	2545.2	2523.7	2501.1	2480.7	2455.8	2433.2
25°	2492.0	2477.3	2461.5	2447.9	2438.8	2421.9	2394.7	2377.7	2355.1	2327.9	2311.0
27.5°	2363.0	2346.0	2323.4	2314.4	2306.4	2283.8	2261.2	2239.7	2221.6	2197.8	2183.1
30°	2213.6	2201.2	2186.5	2175.2	2163.8	2145.7	2125.4	2100.5	2081.2	2069.9	2049.5
32.5°	2062.0	2051.8	2032.6	2026.9	2014.5	1999.7	1985.0	1966.9	1946.6	1929.6	1913.7
35°	1900.2	1890.0	1876.4	1866.2	1861.7	1851.5	1835.6	1819.8	1809.6	1790.4	1782.5
37.5°	1738.3	1734.9	1721.3	1711.2	1707.8	1695.3	1687.4	1676.1	1661.4	1656.8	1647.8
40°	1572.0	1569.7	1561.8	1560.6	1553.8	1550.5	1539.1	1530.1	1523.3	1519.9	1514.2
42.5°	1419.2	1416.9	1410.1	1411.2	1404.5	1402.2	1401.1	1393.1	1387.5	1380.7	1381.8
45°	1268.7	1266.4	1261.9	1259.6	1263.0	1261.9	1259.6	1256.2	1256.2	1257.3	1253.9
47.5°	1123.8	1126.1	1121.5	1123.8	1123.8	1120.4	1120.4	1124.9	1126.1	1128.3	1130.6
50°	986.9	993.6	991.4	994.8	995.9	997.0	993.6	999.3	998.2	1008.4	1006.1
52.5°	862.4	863.5	868.0	869.2	870.3	871.4	877.1	881.6	882.7	887.3	895.2
55°	742.4	743.5	752.6	752.6	758.2	759.4	767.3	769.6	773.0	785.4	787.7
57.5°	629.2	636.0	640.6	642.8	646.2	651.9	656.4	666.6	672.2	680.2	688.1
60°	527.4	535.3	541.0	543.2	547.8	554.5	560.2	571.5	581.7	590.8	596.4
62.5°	433.4	440.2	444.8	452.7	452.7	458.3	471.9	478.7	490.0	498.0	508.1
65°	349.7	354.2	362.1	362.1	366.7	375.7	387.0	397.2	408.5	419.9	430.1
67.5°	273.9	277.3	281.8	286.3	288.6	299.9	309.0	323.7	333.9	341.8	354.2
70°	207.1	209.4	215.0	219.6	222.9	230.9	241.1	251.2	261.4	270.5	282.9
72.5°	148.3	152.8	158.4	161.8	164.1	169.8	179.9	190.1	199.2	208.2	215.0
75°	101.9	105.2	107.5	110.9	114.3	118.8	125.6	132.4	142.6	151.6	159.6
77.5°	63.4	66.8	70.2	71.3	72.4	77.0	81.5	88.3	95.1	101.9	107.5
80°	37.3	38.5	39.6	40.7	43.0	46.4	48.7	53.2	57.7	62.2	67.9
82.5°	19.2	20.4	21.5	21.5	21.5	22.6	26.0	28.3	29.4	31.7	35.1
85°	7.9	7.9	7.9	9.1	9.1	10.2	10.2	11.3	11.3	12.4	13.6
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P879486

CATALOG NUMBER: LD4C70D010 EU4709050 4LBDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
2.5°	3070.3	3070.3	3070.3	3069.2	3070.3	3070.3	3070.3	3069.2
5°	3040.9	3038.7	3038.7	3037.5	3036.4	3036.4	3037.5	3035.3
7.5°	2992.3	2988.9	2986.6	2986.6	2985.5	2984.3	2984.3	2978.7
10°	2928.9	2922.1	2922.1	2919.8	2910.8	2909.6	2907.4	2907.4
12.5°	2849.7	2841.7	2837.2	2831.6	2825.9	2821.4	2820.2	2815.7
15°	2755.7	2745.5	2737.6	2735.4	2726.3	2719.5	2719.5	2717.2
17.5°	2653.9	2638.0	2632.4	2626.7	2614.3	2613.1	2610.9	2600.7
20°	2538.4	2523.7	2515.8	2510.1	2502.2	2490.9	2488.6	2489.8
22.5°	2417.3	2397.0	2390.2	2384.5	2376.6	2366.4	2366.4	2358.5
25°	2291.7	2273.6	2266.8	2260.0	2247.6	2243.1	2237.4	2238.5
27.5°	2163.8	2146.9	2141.2	2128.8	2120.8	2115.2	2109.5	2109.5
30°	2030.3	2021.2	2012.2	2011.1	1995.2	1988.4	1982.8	1978.2
32.5°	1901.3	1890.0	1885.4	1880.9	1873.0	1863.9	1862.8	1854.9
35°	1774.5	1763.2	1757.6	1753.0	1744.0	1740.6	1737.2	1739.4
37.5°	1641.0	1638.7	1635.3	1629.7	1624.0	1622.9	1618.4	1624.0
40°	1509.7	1508.6	1504.1	1505.2	1505.2	1502.9	1505.2	1505.2
42.5°	1383.0	1383.0	1378.4	1380.7	1381.8	1384.1	1387.5	1389.7
45°	1259.6	1258.5	1259.6	1261.9	1259.6	1265.3	1269.8	1273.2
47.5°	1132.8	1134.0	1138.5	1139.6	1141.9	1149.8	1149.8	1149.8
50°	1011.8	1017.4	1015.1	1021.9	1020.8	1025.3	1020.8	1020.8
52.5°	896.3	902.0	903.1	904.2	911.0	912.2	912.2	911.0
55°	793.3	801.3	797.9	803.5	806.9	809.2	812.6	810.3
57.5°	698.3	701.7	705.1	706.2	710.7	713.0	715.2	713.0
60°	604.3	611.1	616.8	617.9	620.2	622.4	623.6	627.0
62.5°	516.1	527.4	529.6	530.8	536.4	539.8	542.1	544.4
65°	438.0	445.9	451.6	454.9	459.5	459.5	462.9	462.9
67.5°	362.1	370.1	373.5	375.7	382.5	383.7	389.3	389.3
70°	293.1	298.8	301.0	304.4	311.2	315.7	318.0	320.3
72.5°	226.3	233.1	236.5	241.1	245.6	249.0	250.1	253.5
75°	165.2	175.4	176.5	181.1	184.5	189.0	191.3	190.1
77.5°	115.4	118.8	123.4	125.6	129.0	132.4	135.8	135.8
80°	71.3	75.8	77.0	78.1	82.6	84.9	87.1	87.1
82.5°	37.3	39.6	41.9	43.0	45.3	45.3	46.4	47.5
85°	14.7	15.8	15.8	15.8	17.0	18.1	18.1	18.1
87.5°	2.3	3.4	2.3	2.3	3.4	3.4	3.4	3.4
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)