

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: P880597

Luminaire Tested: **LD4C65D010 EU4659027 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: P880597
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: LD4C65D010 EU4659027 4LBDWNH
Description: 4 INCH 6500 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

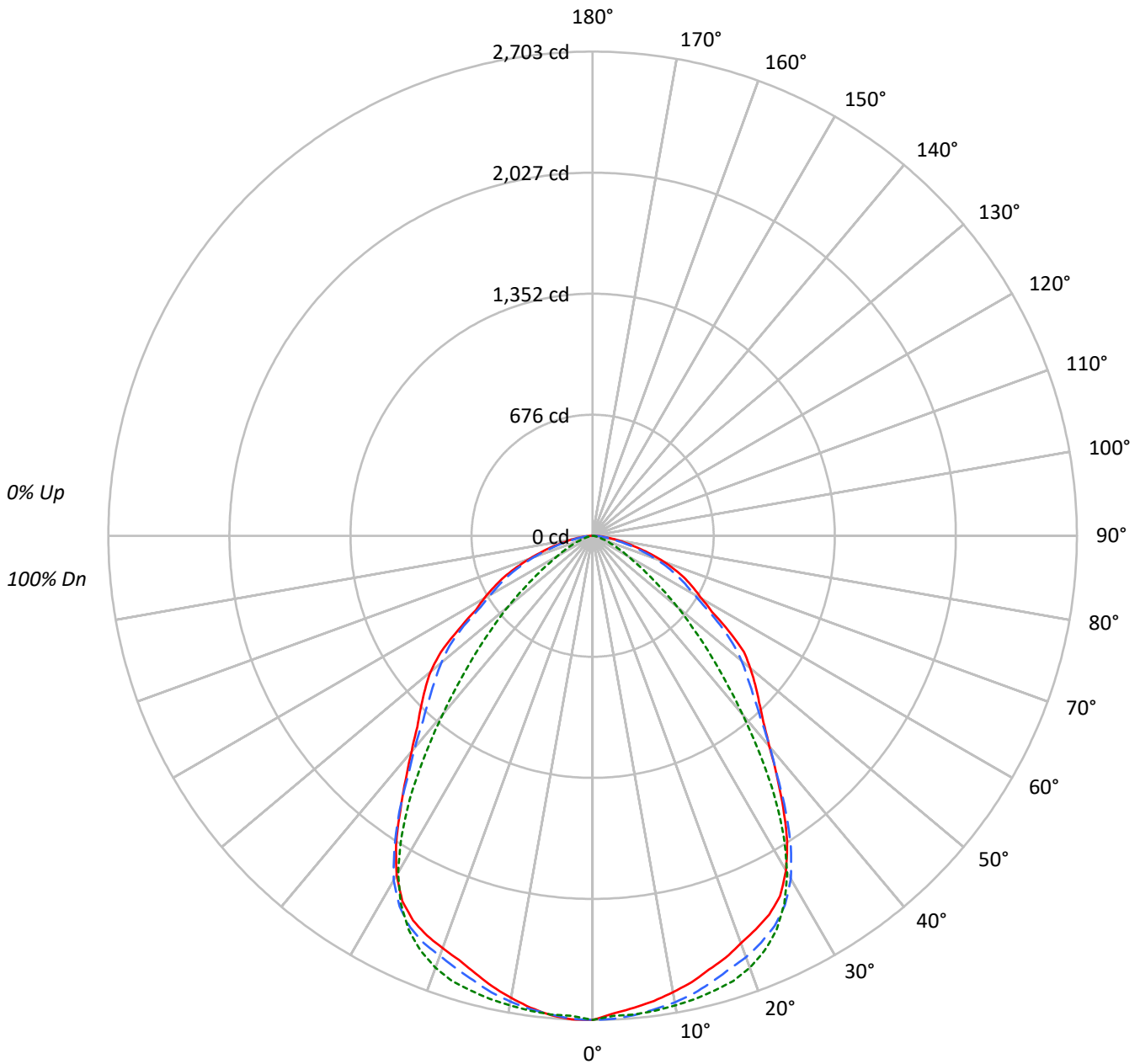
Lumens per Lamp: N/A
Luminaire Lumens: 5501.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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°	332061	332061	332061
5°	326176	330776	331282
10°	322675	332019	326817
15°	318922	334248	321568
20°	316399	335460	320203
25°	316233	329192	321290
30°	306160	307933	310302
35°	278146	265068	280651
40°	246078	208727	252076
45°	228296	158938	235541
50°	219375	117657	225720
55°	198617	81070	195940
60°	172683	55161	171675
65°	166830	39913	158342
70°	150828	26904	134377
75°	124316	17705	106563
80°	100038	11744	79451
85°	82179	5779	52578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	4.6
10°-20°	729.5	13.3
20°-30°	1102.2	20.0
30°-40°	1153.5	21.0
40°-50°	934.2	17.0
50°-60°	679.5	12.4
60°-70°	419.1	7.6
70°-80°	189.3	3.4
80°-90°	38.5	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°	2086.9	37.9
0°-40°	3240.4	58.9
0°-60°	4854.1	88.2
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2703	2703	2703	2703	2703	
5°	2645	2686	2682	2682	2686	251
15°	2508	2578	2628	2570	2528	709
25°	2333	2404	2428	2412	2370	1069
35°	1855	1880	1767	1880	1871	1156
45°	1314	1273	915	1289	1356	1021
55°	927	869	378	877	915	827
65°	574	516	137	507	545	562
75°	262	224	37	195	224	284
85°	58	46	4	33	37	67
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°	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9
2.5°	2669.7	2669.7	2694.7	2723.6	2698.8	2673.8	2690.4	2682.2	2711.4	2711.4	2698.8
5°	2644.9	2653.1	2673.8	2698.8	2678.1	2653.1	2673.8	2665.6	2694.7	2694.7	2686.3
7.5°	2619.8	2623.9	2649.0	2678.1	2657.2	2632.3	2649.0	2644.9	2669.7	2673.8	2665.6
10°	2586.6	2590.7	2615.7	2644.9	2623.9	2603.2	2619.8	2615.7	2649.0	2649.0	2644.9
12.5°	2553.3	2557.4	2582.5	2607.3	2586.6	2565.9	2582.5	2582.5	2615.7	2619.8	2615.7
15°	2507.5	2515.7	2536.7	2561.5	2549.2	2524.2	2540.8	2540.8	2569.9	2578.1	2578.1
17.5°	2470.2	2474.3	2495.0	2520.1	2503.5	2482.5	2499.1	2499.1	2528.3	2536.7	2536.7
20°	2420.1	2428.5	2449.2	2474.3	2461.8	2445.1	2457.7	2457.7	2490.9	2499.1	2503.5
22.5°	2378.7	2386.8	2403.5	2437.0	2416.0	2403.5	2420.1	2416.0	2453.6	2457.7	2457.7
25°	2332.9	2341.3	2362.0	2382.7	2370.2	2357.9	2370.2	2370.2	2399.4	2403.5	2403.5
27.5°	2266.4	2270.5	2291.2	2312.2	2299.6	2283.0	2299.6	2295.5	2324.4	2328.8	2324.4
30°	2158.2	2166.6	2174.8	2204.0	2191.4	2178.9	2195.5	2187.4	2216.5	2216.5	2212.2
32.5°	2020.9	2020.9	2037.7	2058.5	2041.8	2033.4	2045.9	2050.0	2071.0	2071.0	2058.5
35°	1854.6	1863.1	1875.4	1887.9	1875.4	1867.2	1879.7	1875.4	1900.4	1892.0	1879.7
37.5°	1688.4	1692.5	1705.0	1721.7	1705.0	1692.5	1696.6	1692.5	1713.2	1713.2	1692.5
40°	1534.4	1542.9	1551.1	1567.7	1551.1	1542.9	1547.0	1534.4	1559.5	1551.1	1538.5
42.5°	1409.6	1413.7	1426.3	1434.7	1418.1	1413.7	1418.1	1409.6	1422.2	1413.7	1388.9
45°	1314.0	1314.0	1318.3	1330.6	1314.0	1309.9	1309.9	1301.5	1314.0	1297.4	1272.6
47.5°	1230.9	1235.0	1239.3	1247.5	1235.0	1222.7	1226.8	1210.2	1218.4	1205.8	1172.6
50°	1147.8	1156.0	1160.3	1168.5	1156.0	1147.8	1151.9	1135.2	1135.2	1114.5	1085.4
52.5°	1064.7	1068.7	1064.7	1072.8	1064.7	1052.1	1056.2	1039.6	1039.6	1014.8	985.6
55°	927.3	931.4	935.8	943.9	935.8	923.2	931.4	919.1	919.1	902.3	869.0
57.5°	790.0	794.3	798.4	802.5	802.5	794.3	798.4	790.0	785.9	773.4	748.6
60°	702.8	702.8	702.8	706.9	702.8	698.7	698.7	690.2	690.2	673.6	648.8
62.5°	636.3	640.4	640.4	644.5	640.4	636.3	632.2	623.8	619.7	603.0	582.1
65°	573.9	573.9	569.8	578.0	573.9	569.8	569.8	561.4	553.2	536.5	515.6
67.5°	499.0	503.0	499.0	503.0	503.0	499.0	494.9	486.4	482.3	469.8	445.0
70°	419.9	419.9	419.9	424.3	419.9	419.9	424.3	411.7	407.7	390.8	370.1
72.5°	340.9	345.3	345.3	340.9	345.3	336.8	336.8	336.8	332.7	316.1	295.1
75°	261.9	266.2	266.2	270.3	266.2	261.9	261.9	257.8	253.7	241.2	224.5
77.5°	195.4	195.4	199.5	199.5	199.5	195.4	195.4	187.2	187.2	178.8	162.1
80°	141.4	141.4	137.3	141.4	141.4	137.3	137.3	133.0	133.0	124.8	112.3
82.5°	91.6	95.6	95.6	95.6	95.6	91.6	91.6	91.6	87.2	83.1	74.9
85°	58.3	58.3	58.3	58.3	62.4	58.3	62.4	58.3	58.3	49.9	45.8
87.5°	25.1	25.1	25.1	29.2	29.2	25.1	25.1	25.1	25.1	25.1	20.7
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°	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9
2.5°	2698.8	2702.9	2690.4	2707.0	2694.7	2698.8	2702.9	2698.8	2682.2	2682.2	2728.0
5°	2682.2	2690.4	2678.1	2698.8	2690.4	2690.4	2698.8	2694.7	2678.1	2682.2	2723.6
7.5°	2665.6	2678.1	2669.7	2690.4	2678.1	2678.1	2686.3	2686.3	2669.7	2673.8	2711.4
10°	2640.5	2657.2	2653.1	2673.8	2661.5	2661.5	2673.8	2673.8	2657.2	2661.5	2698.8
12.5°	2619.8	2636.4	2632.3	2653.1	2644.9	2649.0	2653.1	2661.5	2640.5	2649.0	2682.2
15°	2586.6	2603.2	2603.2	2623.9	2615.7	2623.9	2632.3	2644.9	2628.0	2628.0	2661.5
17.5°	2549.2	2569.9	2569.9	2586.6	2586.6	2590.7	2607.3	2619.8	2603.2	2607.3	2636.4
20°	2507.5	2532.6	2532.6	2553.3	2549.2	2557.4	2569.9	2582.5	2565.9	2565.9	2599.1
22.5°	2465.9	2486.8	2490.9	2503.5	2503.5	2507.5	2520.1	2528.3	2507.5	2507.5	2540.8
25°	2407.8	2428.5	2432.6	2441.1	2432.6	2432.6	2441.1	2449.2	2428.5	2428.5	2457.7
27.5°	2328.8	2349.5	2349.5	2345.4	2337.0	2341.3	2337.0	2341.3	2320.3	2316.3	2345.4
30°	2212.2	2224.7	2224.7	2220.6	2208.1	2208.1	2195.5	2199.9	2170.7	2170.7	2195.5
32.5°	2054.4	2066.6	2058.5	2050.0	2033.4	2025.2	2016.8	2012.7	1983.5	1983.5	2012.7
35°	1867.2	1875.4	1863.1	1846.5	1825.5	1813.0	1800.7	1784.1	1763.1	1767.4	1784.1
37.5°	1675.9	1675.9	1659.3	1626.0	1609.4	1588.4	1567.7	1567.7	1534.4	1530.4	1542.9
40°	1513.7	1497.1	1468.0	1422.2	1393.0	1372.3	1343.2	1326.5	1301.5	1301.5	1322.4
42.5°	1368.2	1335.0	1297.4	1235.0	1205.8	1181.0	1143.7	1127.1	1097.9	1093.6	1106.1
45°	1239.3	1205.8	1151.9	1085.4	1048.0	1018.9	964.7	943.9	919.1	914.8	923.2
47.5°	1135.2	1097.9	1031.4	943.9	906.6	869.0	815.0	785.9	765.2	752.6	765.2
50°	1043.7	993.8	923.2	831.7	781.8	748.6	682.1	652.9	623.8	615.6	619.7
52.5°	943.9	894.1	819.1	723.5	677.7	627.8	565.4	524.0	499.0	486.4	499.0
55°	835.8	785.9	711.2	615.6	565.4	519.9	453.2	419.9	390.8	378.5	390.8
57.5°	719.4	673.6	607.1	511.5	465.7	424.3	361.9	328.6	299.5	291.0	299.5
60°	619.7	582.1	515.6	424.3	386.7	340.9	286.9	253.7	228.6	224.5	228.6
62.5°	553.2	511.5	449.1	361.9	324.3	286.9	237.1	203.8	182.9	178.8	182.9
65°	486.4	440.9	382.6	307.7	270.3	241.2	191.3	162.1	141.4	137.3	141.4
67.5°	411.7	370.1	320.2	253.7	224.5	195.4	154.0	124.8	108.2	104.1	108.2
70°	340.9	303.6	253.7	203.8	174.7	154.0	116.4	95.6	79.0	74.9	79.0
72.5°	270.3	237.1	195.4	154.0	137.3	116.4	91.6	70.6	58.3	54.0	58.3
75°	207.9	182.9	149.6	112.3	99.7	87.2	62.4	49.9	41.7	37.3	41.7
77.5°	145.5	128.9	104.1	83.1	70.6	62.4	45.8	33.2	29.2	25.1	29.2
80°	99.7	87.2	70.6	54.0	45.8	37.3	29.2	20.7	16.6	16.6	16.6
82.5°	66.5	54.0	41.7	33.2	29.2	25.1	16.6	12.5	12.5	8.4	8.4
85°	37.3	33.2	25.1	20.7	16.6	12.5	8.4	8.4	4.1	4.1	4.1
87.5°	16.6	12.5	8.4	8.4	4.1	4.1	4.1	4.1	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°	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9
2.5°	2715.5	2702.9	2719.6	2702.9	2694.7	2702.9	2694.7	2719.6	2698.8	2682.2	2698.8
5°	2711.4	2694.7	2711.4	2698.8	2686.3	2690.4	2682.2	2707.0	2682.2	2669.7	2678.1
7.5°	2702.9	2690.4	2698.8	2686.3	2673.8	2678.1	2669.7	2690.4	2665.6	2653.1	2661.5
10°	2690.4	2678.1	2682.2	2673.8	2661.5	2661.5	2653.1	2669.7	2640.5	2623.9	2632.3
12.5°	2673.8	2657.2	2665.6	2653.1	2636.4	2636.4	2628.0	2640.5	2611.4	2594.8	2599.1
15°	2653.1	2636.4	2636.4	2623.9	2607.3	2607.3	2590.7	2603.2	2569.9	2553.3	2553.3
17.5°	2628.0	2607.3	2607.3	2594.8	2574.0	2569.9	2557.4	2569.9	2532.6	2515.7	2515.7
20°	2590.7	2574.0	2569.9	2561.5	2540.8	2536.7	2520.1	2524.2	2495.0	2482.5	2478.4
22.5°	2540.8	2524.2	2528.3	2515.7	2499.1	2495.0	2478.4	2490.9	2461.8	2449.2	2453.6
25°	2453.6	2445.1	2453.6	2449.2	2437.0	2437.0	2428.5	2437.0	2411.9	2403.5	2407.8
27.5°	2353.6	2349.5	2353.6	2353.6	2345.4	2345.4	2345.4	2357.9	2332.9	2328.8	2328.8
30°	2208.1	2208.1	2212.2	2216.5	2216.5	2224.7	2220.6	2237.2	2220.6	2212.2	2220.6
32.5°	2016.8	2033.4	2045.9	2045.9	2045.9	2054.4	2062.6	2075.1	2058.5	2062.6	2062.6
35°	1800.7	1813.0	1821.4	1842.1	1829.8	1858.7	1867.2	1883.8	1879.7	1887.9	1883.8
37.5°	1559.5	1576.1	1592.8	1621.9	1617.6	1650.8	1667.4	1700.7	1692.5	1709.1	1717.3
40°	1335.0	1359.8	1384.8	1405.6	1422.2	1455.4	1488.7	1530.4	1542.9	1555.2	1559.5
42.5°	1118.6	1143.7	1185.1	1214.3	1239.3	1293.3	1339.1	1388.9	1401.5	1426.3	1434.7
45°	943.9	964.7	1014.8	1052.1	1072.8	1151.9	1205.8	1268.2	1289.2	1318.3	1330.6
47.5°	781.8	819.1	869.0	914.8	943.9	1027.1	1097.9	1164.4	1193.5	1226.8	1243.4
50°	640.4	682.1	748.6	790.0	831.7	923.2	1002.3	1072.8	1102.0	1139.3	1156.0
52.5°	524.0	569.8	632.2	677.7	723.5	819.1	902.3	969.0	1006.3	1031.4	1056.2
55°	411.7	461.6	524.0	573.9	611.2	715.3	785.9	852.4	877.4	898.2	910.7
57.5°	320.2	357.5	419.9	461.6	507.4	598.7	669.5	719.4	740.1	765.2	773.4
60°	249.6	286.9	345.3	386.7	428.4	515.6	586.4	636.3	657.0	677.7	690.2
62.5°	199.5	237.1	291.0	328.6	366.0	445.0	507.4	557.3	582.1	603.0	615.6
65°	158.0	191.3	237.1	274.4	303.6	374.1	436.6	482.3	507.4	528.1	540.6
67.5°	124.8	154.0	195.4	220.4	249.6	307.7	361.9	403.3	424.3	449.1	461.6
70°	95.6	116.4	154.0	174.7	195.4	245.3	286.9	328.6	349.3	366.0	374.1
72.5°	70.6	87.2	116.4	133.0	145.5	187.2	220.4	249.6	266.2	282.9	291.0
75°	49.9	62.4	83.1	95.6	104.1	133.0	162.1	182.9	195.4	207.9	220.4
77.5°	33.2	41.7	54.0	62.4	70.6	91.6	108.2	124.8	137.3	149.6	154.0
80°	20.7	29.2	37.3	41.7	45.8	58.3	74.9	83.1	91.6	99.7	104.1
82.5°	12.5	16.6	20.7	25.1	29.2	37.3	45.8	54.0	58.3	66.5	70.6
85°	4.1	8.4	8.4	12.5	12.5	20.7	25.1	29.2	33.2	37.3	41.7
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	8.4	8.4	8.4	8.4	8.4
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: P880597

CATALOG NUMBER: LD4C65D010 EU4659027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9	2702.9
2.5°	2715.5	2702.9	2694.7	2690.4	2719.6	2682.2	2698.8	2702.9
5°	2698.8	2686.3	2678.1	2673.8	2698.8	2665.6	2678.1	2686.3
7.5°	2673.8	2665.6	2653.1	2649.0	2673.8	2636.4	2653.1	2657.2
10°	2644.9	2632.3	2623.9	2619.8	2640.5	2603.2	2619.8	2619.8
12.5°	2607.3	2599.1	2582.5	2582.5	2599.1	2565.9	2578.1	2578.1
15°	2557.4	2549.2	2532.6	2532.6	2549.2	2515.7	2528.3	2528.3
17.5°	2515.7	2507.5	2495.0	2490.9	2507.5	2474.3	2486.8	2482.5
20°	2482.5	2474.3	2457.7	2457.7	2470.2	2437.0	2449.2	2449.2
22.5°	2453.6	2449.2	2432.6	2432.6	2449.2	2416.0	2424.4	2416.0
25°	2407.8	2403.5	2386.8	2391.2	2399.4	2366.1	2378.7	2370.2
27.5°	2332.9	2332.9	2316.3	2312.2	2324.4	2295.5	2303.7	2299.6
30°	2216.5	2220.6	2199.9	2199.9	2204.0	2178.9	2191.4	2187.4
32.5°	2058.5	2062.6	2045.9	2041.8	2054.4	2033.4	2041.8	2041.8
35°	1883.8	1887.9	1875.4	1875.4	1887.9	1875.4	1875.4	1871.3
37.5°	1709.1	1717.3	1709.1	1713.2	1721.7	1709.1	1717.3	1713.2
40°	1567.7	1576.1	1563.6	1571.8	1580.2	1567.7	1580.2	1571.8
42.5°	1438.8	1451.3	1442.9	1451.3	1459.5	1451.3	1459.5	1447.2
45°	1343.2	1351.6	1347.2	1351.6	1359.8	1355.7	1359.8	1355.7
47.5°	1251.6	1268.2	1260.0	1268.2	1280.8	1272.6	1280.8	1268.2
50°	1168.5	1181.0	1176.9	1185.1	1189.2	1185.1	1193.5	1181.0
52.5°	1060.3	1072.8	1068.7	1068.7	1076.9	1068.7	1076.9	1068.7
55°	919.1	923.2	923.2	927.3	923.2	919.1	923.2	914.8
57.5°	781.8	790.0	777.7	790.0	785.9	781.8	781.8	773.4
60°	694.3	706.9	698.7	706.9	702.8	702.8	702.8	698.7
62.5°	623.8	632.2	623.8	627.8	627.8	627.8	623.8	619.7
65°	544.7	557.3	548.8	553.2	548.8	544.7	548.8	544.7
67.5°	465.7	469.8	469.8	465.7	465.7	465.7	465.7	457.5
70°	378.5	382.6	378.5	386.7	382.6	378.5	382.6	374.1
72.5°	295.1	299.5	295.1	299.5	295.1	295.1	295.1	295.1
75°	220.4	224.5	224.5	224.5	224.5	224.5	216.4	224.5
77.5°	158.0	158.0	158.0	162.1	158.0	158.0	158.0	158.0
80°	108.2	108.2	108.2	112.3	108.2	112.3	108.2	112.3
82.5°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
85°	37.3	41.7	41.7	37.3	37.3	37.3	37.3	37.3
87.5°	8.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)