

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: P880595

Luminaire Tested: **LD4C60D010 EU4609040 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: P880595
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: LD4C60D010 EU4609040 4LBDWNH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

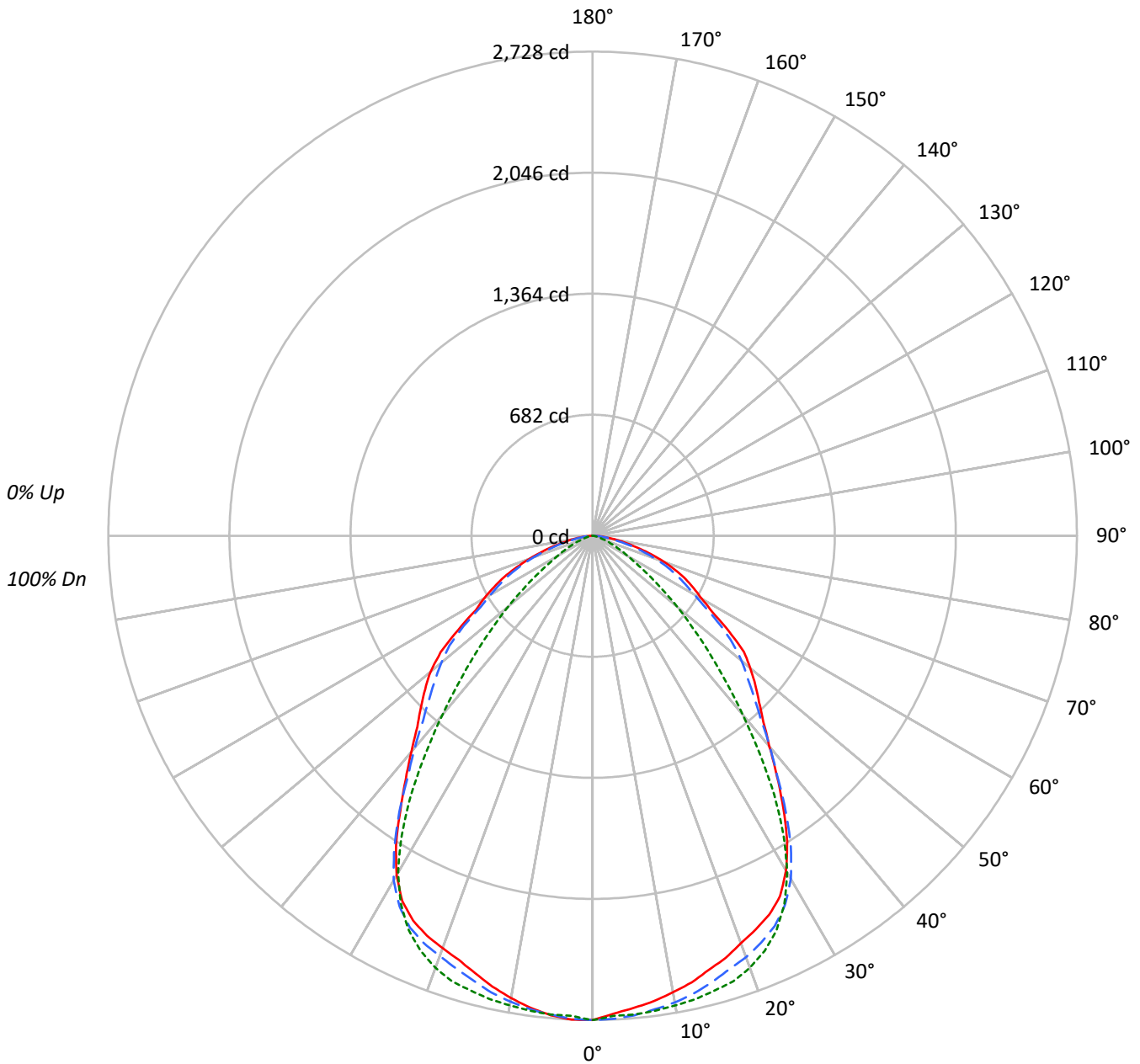
Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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

TEST NUMBER: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

Luminous Intensity Polar Plot





TEST NUMBER: P880595

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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°	335206	335206	335206
5°	329259	333909	334414
10°	325719	335162	329910
15°	321936	337402	324607
20°	319393	338624	323236
25°	319216	332310	324326
30°	309054	310856	313225
35°	280786	267573	283290
40°	248419	210699	254449
45°	230450	160432	237765
50°	221439	118766	227861
55°	200502	81841	197782
60°	174305	55702	173297
65°	168400	40290	159854
70°	152265	27155	135670
75°	125503	17895	107608
80°	101029	11886	80158
85°	83025	5779	53141



TEST NUMBER: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	4.6
10°-20°	736.4	13.3
20°-30°	1112.6	20.0
30°-40°	1164.4	21.0
40°-50°	943.0	17.0
50°-60°	685.9	12.4
60°-70°	423.0	7.6
70°-80°	191.1	3.4
80°-90°	38.8	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°	2106.6	37.9
0°-40°	3271.0	58.9
0°-60°	4900.0	88.2
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2728	2728	2728	2728	2728	
5°	2670	2712	2708	2708	2712	253
15°	2531	2602	2653	2594	2552	715
25°	2355	2426	2452	2435	2393	1079
35°	1872	1898	1784	1898	1889	1167
45°	1326	1285	923	1301	1368	1031
55°	936	877	382	886	923	835
65°	579	520	139	512	550	567
75°	264	227	38	197	227	287
85°	59	46	4	34	38	67
90°	0	0	0	0	0	



TEST NUMBER: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2.5°	2694.9	2694.9	2720.2	2749.4	2724.4	2699.1	2715.8	2707.6	2737.0	2737.0	2724.4
5°	2669.9	2678.1	2699.1	2724.4	2703.4	2678.1	2699.1	2690.8	2720.2	2720.2	2711.7
7.5°	2644.6	2648.7	2674.0	2703.4	2682.3	2657.2	2674.0	2669.9	2694.9	2699.1	2690.8
10°	2611.0	2615.1	2640.4	2669.9	2648.7	2627.8	2644.6	2640.4	2674.0	2674.0	2669.9
12.5°	2577.5	2581.6	2606.9	2631.9	2611.0	2590.1	2606.9	2606.9	2640.4	2644.6	2640.4
15°	2531.2	2539.5	2560.7	2585.7	2573.3	2548.0	2564.8	2564.8	2594.2	2602.5	2602.5
17.5°	2493.6	2497.7	2518.6	2543.9	2527.1	2505.9	2522.7	2522.7	2552.2	2560.7	2560.7
20°	2443.0	2451.5	2472.4	2497.7	2485.0	2468.3	2480.9	2480.9	2514.5	2522.7	2527.1
22.5°	2401.1	2409.4	2426.2	2460.0	2438.8	2426.2	2443.0	2438.8	2476.8	2480.9	2480.9
25°	2354.9	2363.4	2384.4	2405.3	2392.6	2380.2	2392.6	2392.6	2422.0	2426.2	2426.2
27.5°	2287.8	2291.9	2312.8	2334.0	2321.4	2304.6	2321.4	2317.2	2346.4	2350.8	2346.4
30°	2178.6	2187.1	2195.4	2224.8	2212.2	2199.5	2216.3	2208.0	2237.5	2237.5	2233.1
32.5°	2040.0	2040.0	2057.0	2077.9	2061.1	2052.6	2065.3	2069.4	2090.6	2090.6	2077.9
35°	1872.2	1880.7	1893.1	1905.7	1893.1	1884.8	1897.5	1893.1	1918.4	1909.9	1897.5
37.5°	1704.4	1708.5	1721.1	1737.9	1721.1	1708.5	1712.6	1708.5	1729.4	1729.4	1708.5
40°	1549.0	1557.5	1565.7	1582.5	1565.7	1557.5	1561.6	1549.0	1574.3	1565.7	1553.1
42.5°	1423.0	1427.1	1439.8	1448.3	1431.5	1427.1	1431.5	1423.0	1435.6	1427.1	1402.1
45°	1326.4	1326.4	1330.8	1343.2	1326.4	1322.3	1322.3	1313.8	1326.4	1309.6	1284.6
47.5°	1242.5	1246.6	1251.0	1259.3	1246.6	1234.3	1238.4	1221.6	1229.9	1217.2	1183.7
50°	1158.6	1166.9	1171.3	1179.5	1166.9	1158.6	1162.7	1146.0	1146.0	1125.1	1095.6
52.5°	1074.7	1078.8	1074.7	1083.0	1074.7	1062.1	1066.2	1049.4	1049.4	1024.4	994.9
55°	936.1	940.2	944.6	952.9	944.6	932.0	940.2	927.8	927.8	910.8	877.2
57.5°	797.5	801.8	806.0	810.1	810.1	801.8	806.0	797.5	793.3	780.7	755.6
60°	709.4	709.4	709.4	713.6	709.4	705.3	705.3	696.8	696.8	680.0	654.9
62.5°	642.3	646.4	646.4	650.6	646.4	642.3	638.2	629.6	625.5	608.7	587.6
65°	579.3	579.3	575.2	583.4	579.3	575.2	575.2	566.7	558.4	541.6	520.4
67.5°	503.7	507.8	503.7	507.8	507.8	503.7	499.5	491.0	486.9	474.2	449.2
70°	423.9	423.9	423.9	428.3	423.9	423.9	428.3	415.6	411.5	394.5	373.6
72.5°	344.1	348.5	348.5	344.1	348.5	340.0	340.0	340.0	335.9	319.1	297.9
75°	264.4	268.7	268.7	272.9	268.7	264.4	264.4	260.2	256.1	243.4	226.7
77.5°	197.2	197.2	201.4	201.4	201.4	197.2	197.2	189.0	189.0	180.5	163.7
80°	142.8	142.8	138.6	142.8	142.8	138.6	138.6	134.2	134.2	126.0	113.3
82.5°	92.4	96.6	96.6	96.6	96.6	92.4	92.4	92.4	88.0	83.9	75.6
85°	58.9	58.9	58.9	58.9	63.0	58.9	63.0	58.9	58.9	50.3	46.2
87.5°	25.3	25.3	25.3	29.4	29.4	25.3	25.3	25.3	25.3	25.3	20.9
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: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2.5°	2724.4	2728.5	2715.8	2732.6	2720.2	2724.4	2728.5	2724.4	2707.6	2707.6	2753.8
5°	2707.6	2715.8	2703.4	2724.4	2715.8	2715.8	2724.4	2720.2	2703.4	2707.6	2749.4
7.5°	2690.8	2703.4	2694.9	2715.8	2703.4	2703.4	2711.7	2711.7	2694.9	2699.1	2737.0
10°	2665.5	2682.3	2678.1	2699.1	2686.7	2686.7	2699.1	2699.1	2682.3	2686.7	2724.4
12.5°	2644.6	2661.4	2657.2	2678.1	2669.9	2674.0	2678.1	2686.7	2665.5	2674.0	2707.6
15°	2611.0	2627.8	2627.8	2648.7	2640.4	2648.7	2657.2	2669.9	2652.8	2652.8	2686.7
17.5°	2573.3	2594.2	2594.2	2611.0	2611.0	2615.1	2631.9	2644.6	2627.8	2631.9	2661.4
20°	2531.2	2556.5	2556.5	2577.5	2573.3	2581.6	2594.2	2606.9	2590.1	2590.1	2623.7
22.5°	2489.2	2510.3	2514.5	2527.1	2527.1	2531.2	2543.9	2552.2	2531.2	2531.2	2564.8
25°	2430.6	2451.5	2455.6	2464.1	2455.6	2455.6	2464.1	2472.4	2451.5	2451.5	2480.9
27.5°	2350.8	2371.7	2371.7	2367.6	2359.1	2363.4	2359.1	2363.4	2342.3	2338.1	2367.6
30°	2233.1	2245.7	2245.7	2241.6	2228.9	2228.9	2216.3	2220.7	2191.3	2191.3	2216.3
32.5°	2073.8	2086.2	2077.9	2069.4	2052.6	2044.4	2035.8	2031.7	2002.3	2002.3	2031.7
35°	1884.8	1893.1	1880.7	1863.9	1842.7	1830.1	1817.7	1800.9	1779.7	1784.1	1800.9
37.5°	1691.7	1691.7	1674.9	1641.4	1624.6	1603.4	1582.5	1582.5	1549.0	1544.8	1557.5
40°	1528.0	1511.3	1481.8	1435.6	1406.2	1385.3	1355.9	1339.1	1313.8	1313.8	1334.9
42.5°	1381.2	1347.6	1309.6	1246.6	1217.2	1192.2	1154.5	1137.7	1108.3	1103.9	1116.5
45°	1251.0	1217.2	1162.7	1095.6	1057.9	1028.5	973.8	952.9	927.8	923.4	932.0
47.5°	1146.0	1108.3	1041.2	952.9	915.2	877.2	822.8	793.3	772.4	759.8	772.4
50°	1053.5	1003.2	932.0	839.5	789.2	755.6	688.5	659.1	629.6	621.4	625.5
52.5°	952.9	902.5	826.9	730.3	684.1	633.8	570.8	529.0	503.7	491.0	503.7
55°	843.7	793.3	717.9	621.4	570.8	524.8	457.5	423.9	394.5	382.1	394.5
57.5°	726.2	680.0	612.9	516.3	470.1	428.3	365.3	331.7	302.3	293.8	302.3
60°	625.5	587.6	520.4	428.3	390.3	344.1	289.7	256.1	230.8	226.7	230.8
62.5°	558.4	516.3	453.3	365.3	327.3	289.7	239.3	205.8	184.6	180.5	184.6
65°	491.0	445.1	386.2	310.6	272.9	243.4	193.1	163.7	142.8	138.6	142.8
67.5°	415.6	373.6	323.2	256.1	226.7	197.2	155.4	126.0	109.2	105.1	109.2
70°	344.1	306.4	256.1	205.8	176.3	155.4	117.5	96.6	79.8	75.6	79.8
72.5°	272.9	239.3	197.2	155.4	138.6	117.5	92.4	71.3	58.9	54.5	58.9
75°	209.9	184.6	151.0	113.3	100.7	88.0	63.0	50.3	42.1	37.7	42.1
77.5°	146.9	130.1	105.1	83.9	71.3	63.0	46.2	33.6	29.4	25.3	29.4
80°	100.7	88.0	71.3	54.5	46.2	37.7	29.4	20.9	16.8	16.8	16.8
82.5°	67.1	54.5	42.1	33.6	29.4	25.3	16.8	12.6	12.6	8.5	8.5
85°	37.7	33.6	25.3	20.9	16.8	12.6	8.5	8.5	4.1	4.1	4.1
87.5°	16.8	12.6	8.5	8.5	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



TEST NUMBER: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2.5°	2741.1	2728.5	2745.3	2728.5	2720.2	2728.5	2720.2	2745.3	2724.4	2707.6	2724.4
5°	2737.0	2720.2	2737.0	2724.4	2711.7	2715.8	2707.6	2732.6	2707.6	2694.9	2703.4
7.5°	2728.5	2715.8	2724.4	2711.7	2699.1	2703.4	2694.9	2715.8	2690.8	2678.1	2686.7
10°	2715.8	2703.4	2707.6	2699.1	2686.7	2686.7	2678.1	2694.9	2665.5	2648.7	2657.2
12.5°	2699.1	2682.3	2690.8	2678.1	2661.4	2661.4	2652.8	2665.5	2636.1	2619.3	2623.7
15°	2678.1	2661.4	2661.4	2648.7	2631.9	2631.9	2615.1	2627.8	2594.2	2577.5	2577.5
17.5°	2652.8	2631.9	2631.9	2619.3	2598.4	2594.2	2581.6	2594.2	2556.5	2539.5	2539.5
20°	2615.1	2598.4	2594.2	2585.7	2564.8	2560.7	2543.9	2548.0	2518.6	2505.9	2501.8
22.5°	2564.8	2548.0	2552.2	2539.5	2522.7	2518.6	2501.8	2514.5	2485.0	2472.4	2476.8
25°	2476.8	2468.3	2476.8	2472.4	2460.0	2460.0	2451.5	2460.0	2434.7	2426.2	2430.6
27.5°	2375.8	2371.7	2375.8	2375.8	2367.6	2367.6	2367.6	2380.2	2354.9	2350.8	2350.8
30°	2228.9	2228.9	2233.1	2237.5	2237.5	2245.7	2241.6	2258.4	2241.6	2233.1	2241.6
32.5°	2035.8	2052.6	2065.3	2065.3	2065.3	2073.8	2082.1	2094.7	2077.9	2082.1	2082.1
35°	1817.7	1830.1	1838.6	1859.5	1847.1	1876.3	1884.8	1901.6	1897.5	1905.7	1901.6
37.5°	1574.3	1591.0	1607.8	1637.2	1632.9	1666.4	1683.2	1716.8	1708.5	1725.3	1733.5
40°	1347.6	1372.6	1397.9	1418.8	1435.6	1469.2	1502.7	1544.8	1557.5	1569.9	1574.3
42.5°	1129.2	1154.5	1196.3	1225.7	1251.0	1305.5	1351.7	1402.1	1414.7	1439.8	1448.3
45°	952.9	973.8	1024.4	1062.1	1083.0	1162.7	1217.2	1280.2	1301.4	1330.8	1343.2
47.5°	789.2	826.9	877.2	923.4	952.9	1036.8	1108.3	1175.4	1204.8	1238.4	1255.2
50°	646.4	688.5	755.6	797.5	839.5	932.0	1011.7	1083.0	1112.4	1150.1	1166.9
52.5°	529.0	575.2	638.2	684.1	730.3	826.9	910.8	978.2	1015.9	1041.2	1066.2
55°	415.6	466.0	529.0	579.3	617.0	722.1	793.3	860.4	885.7	906.7	919.3
57.5°	323.2	360.9	423.9	466.0	512.2	604.4	675.9	726.2	747.1	772.4	780.7
60°	252.0	289.7	348.5	390.3	432.4	520.4	592.0	642.3	663.2	684.1	696.8
62.5°	201.4	239.3	293.8	331.7	369.4	449.2	512.2	562.5	587.6	608.7	621.4
65°	159.5	193.1	239.3	277.0	306.4	377.7	440.7	486.9	512.2	533.1	545.7
67.5°	126.0	155.4	197.2	222.5	252.0	310.6	365.3	407.1	428.3	453.3	466.0
70°	96.6	117.5	155.4	176.3	197.2	247.6	289.7	331.7	352.6	369.4	377.7
72.5°	71.3	88.0	117.5	134.2	146.9	189.0	222.5	252.0	268.7	285.5	293.8
75°	50.3	63.0	83.9	96.6	105.1	134.2	163.7	184.6	197.2	209.9	222.5
77.5°	33.6	42.1	54.5	63.0	71.3	92.4	109.2	126.0	138.6	151.0	155.4
80°	20.9	29.4	37.7	42.1	46.2	58.9	75.6	83.9	92.4	100.7	105.1
82.5°	12.6	16.8	20.9	25.3	29.4	37.7	46.2	54.5	58.9	67.1	71.3
85°	4.1	8.5	8.5	12.6	12.6	20.9	25.3	29.4	33.6	37.7	42.1
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	8.5	8.5	8.5	8.5	8.5
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: P880595

CATALOG NUMBER: LD4C60D010 EU4609040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2.5°	2741.1	2728.5	2720.2	2715.8	2745.3	2707.6	2724.4	2728.5
5°	2724.4	2711.7	2703.4	2699.1	2724.4	2690.8	2703.4	2711.7
7.5°	2699.1	2690.8	2678.1	2674.0	2699.1	2661.4	2678.1	2682.3
10°	2669.9	2657.2	2648.7	2644.6	2665.5	2627.8	2644.6	2644.6
12.5°	2631.9	2623.7	2606.9	2606.9	2623.7	2590.1	2602.5	2602.5
15°	2581.6	2573.3	2556.5	2556.5	2573.3	2539.5	2552.2	2552.2
17.5°	2539.5	2531.2	2518.6	2514.5	2531.2	2497.7	2510.3	2505.9
20°	2505.9	2497.7	2480.9	2480.9	2493.6	2460.0	2472.4	2472.4
22.5°	2476.8	2472.4	2455.6	2455.6	2472.4	2438.8	2447.3	2438.8
25°	2430.6	2426.2	2409.4	2413.8	2422.0	2388.5	2401.1	2392.6
27.5°	2354.9	2354.9	2338.1	2334.0	2346.4	2317.2	2325.5	2321.4
30°	2237.5	2241.6	2220.7	2220.7	2224.8	2199.5	2212.2	2208.0
32.5°	2077.9	2082.1	2065.3	2061.1	2073.8	2052.6	2061.1	2061.1
35°	1901.6	1905.7	1893.1	1893.1	1905.7	1893.1	1893.1	1888.9
37.5°	1725.3	1733.5	1725.3	1729.4	1737.9	1725.3	1733.5	1729.4
40°	1582.5	1591.0	1578.4	1586.6	1595.2	1582.5	1595.2	1586.6
42.5°	1452.4	1465.1	1456.5	1465.1	1473.3	1465.1	1473.3	1460.9
45°	1355.9	1364.4	1360.0	1364.4	1372.6	1368.5	1372.6	1368.5
47.5°	1263.4	1280.2	1271.9	1280.2	1292.9	1284.6	1292.9	1280.2
50°	1179.5	1192.2	1188.0	1196.3	1200.4	1196.3	1204.8	1192.2
52.5°	1070.3	1083.0	1078.8	1078.8	1087.1	1078.8	1087.1	1078.8
55°	927.8	932.0	932.0	936.1	932.0	927.8	932.0	923.4
57.5°	789.2	797.5	785.1	797.5	793.3	789.2	789.2	780.7
60°	700.9	713.6	705.3	713.6	709.4	709.4	709.4	705.3
62.5°	629.6	638.2	629.6	633.8	633.8	633.8	629.6	625.5
65°	549.9	562.5	554.0	558.4	554.0	549.9	554.0	549.9
67.5°	470.1	474.2	474.2	470.1	470.1	470.1	470.1	461.8
70°	382.1	386.2	382.1	390.3	386.2	382.1	386.2	377.7
72.5°	297.9	302.3	297.9	302.3	297.9	297.9	297.9	297.9
75°	222.5	226.7	226.7	226.7	226.7	226.7	218.4	226.7
77.5°	159.5	159.5	159.5	163.7	159.5	159.5	159.5	159.5
80°	109.2	109.2	109.2	113.3	109.2	113.3	109.2	113.3
82.5°	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
85°	37.7	42.1	42.1	37.7	37.7	37.7	37.7	37.7
87.5°	8.5	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)