

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: P859195

Luminaire Tested: **LX4C60D010 EX4C609030 4LBLWW***

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P859195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C60D010 EX4C609030 4LBLWW*
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

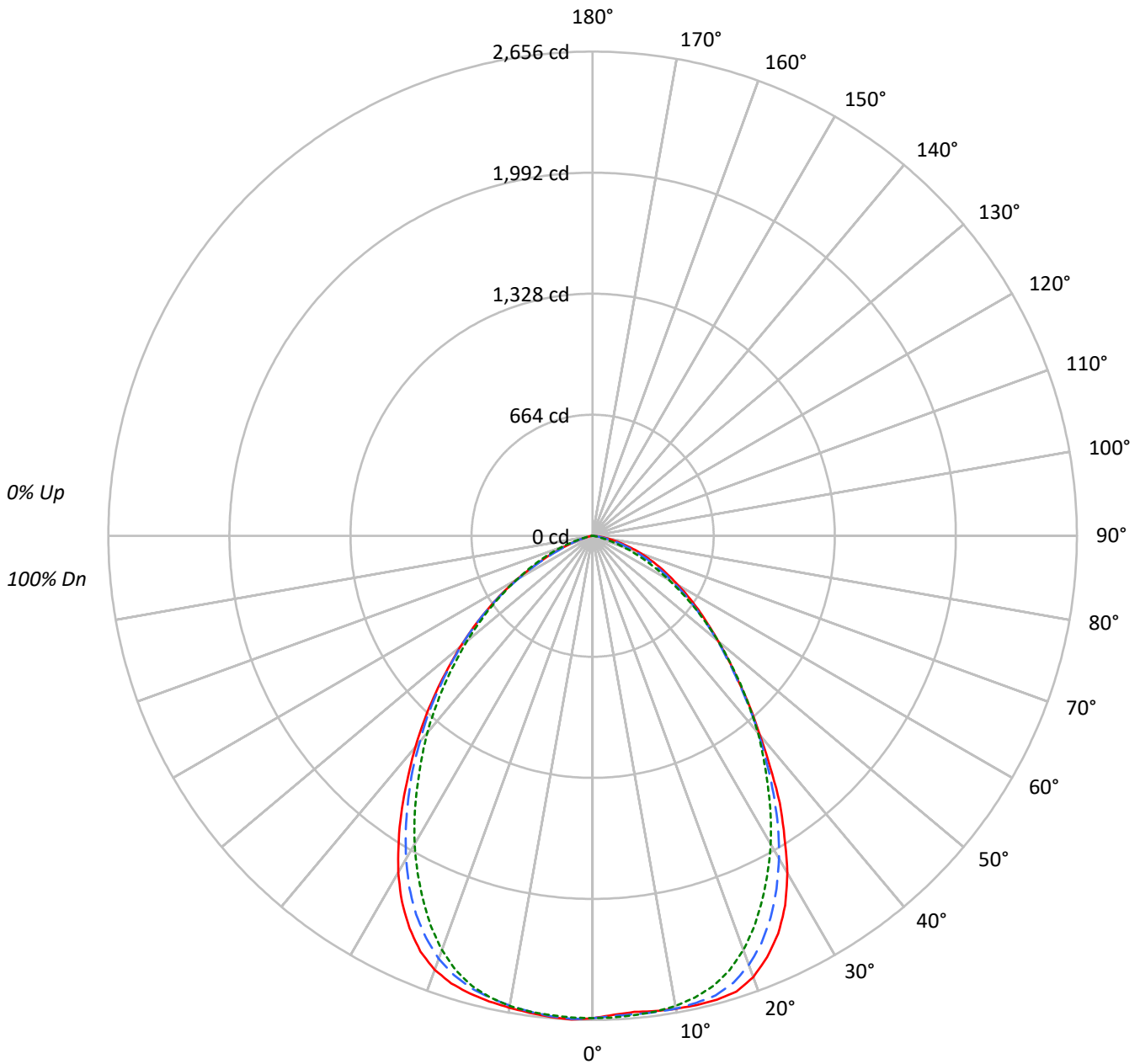
Lumens per Lamp: N/A
Luminaire Lumens: 5074.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V):
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									
RC	80									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																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	325144	325144	325144
5°	323315	325523	326756
10°	328675	326692	327927
15°	335100	325231	330674
20°	336781	316124	331198
25°	326427	298530	321981
30°	302982	277036	302415
35°	268293	251300	273362
40°	228725	226320	242421
45°	196501	198742	211182
50°	171517	171899	181016
55°	151560	145177	150082
60°	132829	118431	117939
65°	117587	91860	81773
70°	100324	63183	48564
75°	81121	33986	22167
80°	55538	8419	5660
85°	16774	2819	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	5.0
10°-20°	728.1	14.4
20°-30°	1052.1	20.7
30°-40°	1087.7	21.4
40°-50°	898.7	17.7
50°-60°	620.2	12.2
60°-70°	324.7	6.4
70°-80°	102.2	2.0
80°-90°	8.7	0.2
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°	2031.8	40.0
0°-40°	3119.4	61.5
0°-60°	4638.4	91.4
0°-90°	5074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5074.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2647	2647	2647	2647	2647	
5°	2622	2635	2640	2645	2650	251
15°	2635	2610	2557	2569	2600	743
25°	2408	2311	2202	2291	2375	1099
35°	1789	1729	1676	1763	1823	1110
45°	1131	1126	1144	1197	1216	882
55°	708	686	678	697	701	636
65°	404	367	316	262	281	401
75°	171	134	72	49	47	183
85°	12	6	2	2	2	25
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°	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6
2.5°	2629.7	2630.7	2630.7	2632.7	2632.7	2632.7	2633.7	2633.7	2634.7	2635.7	2636.7
5°	2621.7	2621.7	2623.7	2624.7	2626.7	2627.7	2629.7	2630.7	2632.7	2633.7	2634.7
7.5°	2629.7	2629.7	2630.7	2631.7	2631.7	2632.7	2632.7	2633.7	2634.7	2635.7	2635.7
10°	2634.7	2634.7	2634.7	2634.7	2635.7	2635.7	2635.7	2634.7	2634.7	2634.7	2633.7
12.5°	2636.7	2636.7	2635.7	2634.7	2635.7	2634.7	2634.7	2631.7	2629.7	2627.7	2624.7
15°	2634.7	2634.7	2633.7	2632.7	2631.7	2629.7	2628.7	2623.7	2619.8	2613.8	2609.8
17.5°	2621.7	2619.8	2617.8	2615.8	2611.8	2608.8	2606.8	2597.9	2590.9	2581.0	2570.1
20°	2576.0	2574.0	2571.1	2566.1	2561.1	2557.1	2551.2	2538.3	2531.3	2516.4	2505.5
22.5°	2501.5	2499.5	2500.5	2491.6	2481.6	2475.7	2471.7	2460.7	2448.8	2429.9	2418.0
25°	2408.1	2402.1	2402.1	2388.2	2383.2	2379.2	2374.3	2361.4	2343.5	2326.6	2310.7
27.5°	2286.8	2278.9	2274.9	2272.9	2261.0	2252.0	2245.1	2235.1	2220.2	2205.3	2183.5
30°	2135.8	2134.8	2129.8	2120.9	2111.9	2107.9	2100.0	2083.1	2069.2	2058.2	2044.3
32.5°	1957.9	1956.9	1956.9	1956.9	1950.9	1949.9	1938.0	1929.0	1918.1	1901.2	1892.3
35°	1788.9	1787.9	1788.9	1774.0	1770.0	1767.0	1766.1	1760.1	1745.2	1737.2	1729.3
37.5°	1598.1	1601.1	1599.1	1595.1	1600.1	1591.1	1598.1	1585.2	1579.2	1577.2	1568.3
40°	1426.2	1434.1	1426.2	1427.2	1432.1	1423.2	1423.2	1421.2	1417.2	1415.2	1413.2
42.5°	1279.1	1269.1	1275.1	1270.1	1275.1	1272.1	1267.1	1270.1	1271.1	1267.1	1266.1
45°	1131.0	1133.0	1135.0	1132.0	1132.0	1129.0	1137.0	1132.0	1132.0	1133.0	1126.0
47.5°	1010.7	1007.8	1009.7	1007.8	1008.7	1006.8	1008.7	1009.7	1007.8	1007.8	1001.8
50°	897.4	895.4	902.4	896.4	896.4	895.4	896.4	894.5	891.5	891.5	893.5
52.5°	799.0	795.1	794.1	799.0	792.1	792.1	793.1	791.1	787.1	785.1	780.2
55°	707.6	706.6	707.6	703.6	701.6	701.6	696.7	694.7	693.7	688.7	685.7
57.5°	622.1	619.2	620.2	619.2	615.2	614.2	610.2	610.2	606.2	602.3	597.3
60°	540.6	540.6	543.6	539.7	536.7	534.7	532.7	530.7	523.8	516.8	510.8
62.5°	468.1	469.1	468.1	465.1	463.1	461.1	459.2	453.2	447.2	443.3	436.3
65°	404.5	403.5	400.5	398.5	393.6	393.6	389.6	386.6	379.6	373.7	366.7
67.5°	338.9	336.9	336.9	336.9	330.9	330.0	328.0	322.0	316.0	308.1	302.1
70°	279.3	281.3	278.3	275.3	272.3	271.3	268.3	262.4	255.4	247.5	242.5
72.5°	222.6	224.6	221.6	220.6	214.7	212.7	211.7	206.7	198.8	193.8	185.8
75°	170.9	171.9	169.9	168.0	164.0	163.0	158.0	154.0	149.1	141.1	134.2
77.5°	123.2	121.2	121.2	117.3	113.3	113.3	112.3	106.3	99.4	93.4	87.5
80°	78.5	77.5	74.5	72.6	69.6	68.6	67.6	62.6	57.6	53.7	49.7
82.5°	39.8	38.8	37.8	36.8	34.8	32.8	33.8	29.8	27.8	23.9	20.9
85°	11.9	12.9	12.9	11.9	10.9	10.9	10.9	9.9	8.0	7.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6
2.5°	2637.6	2638.6	2639.6	2640.6	2640.6	2641.6	2642.6	2643.6	2644.6	2644.6	2645.6
5°	2635.7	2637.6	2637.6	2638.6	2638.6	2638.6	2639.6	2639.6	2639.6	2639.6	2640.6
7.5°	2636.7	2636.7	2636.7	2635.7	2635.7	2634.7	2634.7	2634.7	2632.7	2632.7	2632.7
10°	2631.7	2630.7	2629.7	2627.7	2626.7	2625.7	2623.7	2621.7	2619.8	2618.8	2616.8
12.5°	2621.7	2617.8	2613.8	2609.8	2607.8	2606.8	2602.9	2599.9	2596.9	2593.9	2591.9
15°	2601.9	2595.9	2588.9	2581.0	2579.0	2577.0	2570.1	2564.1	2560.1	2557.1	2552.2
17.5°	2562.1	2550.2	2542.2	2530.3	2525.3	2523.4	2512.4	2506.5	2499.5	2497.5	2493.5
20°	2491.6	2480.6	2465.7	2454.8	2448.8	2442.9	2433.9	2426.0	2418.0	2418.0	2413.0
22.5°	2403.1	2389.2	2370.3	2356.4	2355.4	2343.5	2335.5	2326.6	2323.6	2317.6	2317.6
25°	2291.8	2279.9	2259.0	2247.1	2241.1	2238.1	2225.2	2213.3	2207.3	2202.3	2206.3
27.5°	2168.6	2150.7	2134.8	2119.9	2114.9	2108.9	2097.0	2092.0	2081.1	2080.1	2079.1
30°	2027.4	2009.5	1993.6	1986.7	1976.7	1971.8	1962.8	1956.9	1952.9	1952.9	1950.9
32.5°	1879.3	1863.4	1855.5	1840.6	1835.6	1828.7	1822.7	1816.7	1818.7	1816.7	1817.7
35°	1719.3	1715.4	1700.5	1691.5	1691.5	1690.5	1680.6	1676.6	1674.6	1675.6	1680.6
37.5°	1567.3	1555.4	1545.4	1539.5	1544.4	1538.5	1537.5	1537.5	1543.4	1539.5	1547.4
40°	1405.3	1404.3	1400.3	1402.3	1403.3	1396.3	1398.3	1399.3	1403.3	1411.2	1412.2
42.5°	1264.2	1263.2	1263.2	1263.2	1261.2	1257.2	1261.2	1268.1	1267.1	1273.1	1278.1
45°	1128.0	1126.0	1130.0	1127.0	1133.0	1135.0	1132.0	1134.0	1139.9	1143.9	1151.9
47.5°	1003.8	1003.8	1004.8	1006.8	1000.8	1005.8	1007.8	1011.7	1014.7	1016.7	1020.7
50°	888.5	888.5	886.5	886.5	886.5	889.5	885.5	890.5	891.5	899.4	904.4
52.5°	782.2	777.2	780.2	778.2	774.2	772.2	774.2	775.2	781.2	783.1	789.1
55°	680.8	680.8	672.8	670.8	673.8	672.8	671.8	671.8	674.8	677.8	682.8
57.5°	591.3	585.4	579.4	578.4	575.4	576.4	576.4	575.4	573.4	574.4	575.4
60°	506.9	502.9	493.9	493.9	492.9	491.9	487.0	486.0	481.0	482.0	478.0
62.5°	429.3	427.4	415.4	411.4	411.4	408.5	403.5	402.5	395.5	395.5	391.6
65°	359.8	353.8	346.8	339.9	339.9	335.9	332.9	324.0	319.0	316.0	310.1
67.5°	296.2	287.2	280.3	274.3	270.3	269.3	262.4	256.4	248.5	243.5	234.5
70°	234.5	227.6	220.6	214.7	210.7	206.7	199.8	190.8	184.9	175.9	169.9
72.5°	176.9	170.9	165.0	157.0	152.1	149.1	142.1	134.2	124.2	118.3	110.3
75°	127.2	120.3	112.3	105.3	102.4	99.4	91.4	85.5	78.5	71.6	63.6
77.5°	82.5	74.5	68.6	60.6	59.6	57.6	49.7	43.7	38.8	34.8	29.8
80°	43.7	39.8	34.8	29.8	27.8	24.8	20.9	17.9	14.9	11.9	9.9
82.5°	18.9	15.9	12.9	10.9	9.9	8.9	7.0	6.0	5.0	5.0	4.0
85°	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	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°	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6
2.5°	2646.6	2647.6	2648.6	2648.6	2649.6	2650.6	2650.6	2651.6	2652.6	2653.5	2653.5
5°	2641.6	2641.6	2641.6	2642.6	2642.6	2642.6	2642.6	2644.6	2644.6	2645.6	2646.6
7.5°	2631.7	2631.7	2631.7	2631.7	2630.7	2631.7	2630.7	2630.7	2632.7	2633.7	2634.7
10°	2615.8	2614.8	2614.8	2613.8	2613.8	2613.8	2614.8	2615.8	2616.8	2617.8	2620.8
12.5°	2590.9	2589.9	2589.9	2588.9	2588.9	2589.9	2590.9	2592.9	2596.9	2598.9	2602.9
15°	2551.2	2550.2	2551.2	2552.2	2554.2	2557.1	2560.1	2563.1	2569.1	2574.0	2579.0
17.5°	2493.5	2494.5	2495.5	2497.5	2500.5	2504.5	2512.4	2520.4	2527.3	2535.3	2543.2
20°	2414.0	2418.0	2419.0	2426.0	2427.9	2436.9	2445.8	2457.8	2468.7	2478.6	2489.6
22.5°	2318.6	2321.6	2325.6	2333.5	2338.5	2350.4	2361.4	2375.3	2387.2	2400.1	2416.0
25°	2210.3	2211.3	2223.2	2223.2	2235.1	2245.1	2258.0	2272.9	2290.8	2307.7	2318.6
27.5°	2087.1	2092.0	2101.0	2104.9	2113.9	2129.8	2140.7	2158.6	2176.5	2191.4	2203.3
30°	1957.9	1961.8	1976.7	1978.7	1985.7	1999.6	2014.5	2031.4	2045.3	2062.2	2073.1
32.5°	1821.7	1832.6	1841.6	1848.5	1850.5	1871.4	1879.3	1891.3	1907.2	1924.1	1935.0
35°	1689.5	1694.5	1707.4	1711.4	1717.4	1729.3	1745.2	1755.1	1763.1	1774.0	1786.9
37.5°	1549.4	1564.3	1567.3	1579.2	1581.2	1592.1	1600.1	1612.0	1621.9	1631.9	1633.9
40°	1419.2	1424.2	1435.1	1438.1	1440.1	1455.0	1464.9	1467.9	1472.9	1481.8	1493.7
42.5°	1287.0	1292.0	1303.9	1300.9	1309.9	1316.8	1321.8	1333.7	1338.7	1341.7	1341.7
45°	1156.8	1158.8	1166.8	1170.7	1175.7	1179.7	1188.6	1194.6	1196.6	1205.5	1208.5
47.5°	1032.6	1034.6	1040.5	1047.5	1045.5	1050.5	1060.4	1063.4	1064.4	1070.4	1073.3
50°	910.4	915.3	923.3	921.3	927.3	930.2	939.2	941.2	941.2	942.2	943.2
52.5°	796.1	800.0	802.0	804.0	807.0	812.0	815.9	814.0	817.9	821.9	818.9
55°	682.8	685.7	690.7	692.7	692.7	693.7	691.7	700.7	696.7	695.7	696.7
57.5°	579.4	575.4	574.4	579.4	581.4	580.4	577.4	581.4	581.4	579.4	576.4
60°	479.0	476.0	475.1	476.0	472.1	469.1	471.1	469.1	464.1	462.1	463.1
62.5°	387.6	384.6	376.7	376.7	374.7	373.7	365.7	366.7	362.8	356.8	358.8
65°	303.1	295.2	291.2	290.2	283.2	277.3	275.3	268.3	262.4	261.4	262.4
67.5°	227.6	218.6	211.7	208.7	204.7	199.8	192.8	186.8	188.8	187.8	191.8
70°	158.0	152.1	145.1	140.1	142.1	136.2	132.2	132.2	133.2	134.2	136.2
72.5°	105.3	97.4	94.4	91.4	89.4	85.5	87.5	87.5	86.5	87.5	85.5
75°	59.6	55.7	52.7	51.7	49.7	49.7	49.7	49.7	48.7	47.7	47.7
77.5°	26.8	24.8	23.9	22.9	22.9	22.9	21.9	20.9	20.9	20.9	19.9
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	4.0	4.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P859195

CATALOG NUMBER: LX4C60D010 EX4C609030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6	2646.6
2.5°	2654.5	2655.5	2655.5	2655.5	2656.5	2656.5	2656.5	2656.5
5°	2647.6	2648.6	2648.6	2648.6	2649.6	2649.6	2649.6	2649.6
7.5°	2635.7	2636.7	2636.7	2637.6	2637.6	2638.6	2638.6	2639.6
10°	2621.7	2623.7	2624.7	2625.7	2626.7	2627.7	2627.7	2628.7
12.5°	2606.8	2608.8	2609.8	2611.8	2613.8	2614.8	2615.8	2616.8
15°	2585.0	2588.9	2590.9	2591.9	2595.9	2597.9	2598.9	2599.9
17.5°	2550.2	2558.1	2561.1	2563.1	2567.1	2571.1	2574.0	2575.0
20°	2500.5	2509.4	2513.4	2518.4	2524.3	2529.3	2531.3	2533.3
22.5°	2430.9	2440.9	2446.8	2452.8	2457.8	2462.7	2470.7	2467.7
25°	2331.5	2348.4	2355.4	2358.4	2369.3	2375.3	2379.2	2375.3
27.5°	2220.2	2230.2	2236.1	2243.1	2251.0	2257.0	2259.0	2265.0
30°	2086.1	2103.0	2102.0	2108.9	2118.9	2124.8	2126.8	2131.8
32.5°	1946.9	1954.9	1960.8	1959.8	1963.8	1974.8	1970.8	1979.7
35°	1798.8	1799.8	1809.8	1808.8	1816.7	1816.7	1816.7	1822.7
37.5°	1640.8	1652.8	1647.8	1659.7	1655.7	1658.7	1658.7	1660.7
40°	1496.7	1500.7	1500.7	1504.7	1507.7	1504.7	1506.7	1511.6
42.5°	1347.6	1351.6	1352.6	1350.6	1353.6	1362.6	1355.6	1361.6
45°	1208.5	1211.5	1215.5	1212.5	1217.5	1214.5	1217.5	1215.5
47.5°	1077.3	1076.3	1075.3	1083.3	1076.3	1077.3	1081.3	1074.3
50°	943.2	949.1	945.1	948.1	950.1	950.1	947.1	947.1
52.5°	823.9	822.9	819.9	822.9	820.9	821.9	823.9	821.9
55°	700.7	704.6	702.6	701.6	702.6	702.6	708.6	700.7
57.5°	579.4	577.4	580.4	587.4	580.4	585.4	588.4	589.3
60°	464.1	464.1	470.1	467.1	473.1	478.0	482.0	480.0
62.5°	353.8	358.8	360.8	361.8	367.7	371.7	371.7	370.7
65°	262.4	269.3	269.3	273.3	275.3	275.3	277.3	281.3
67.5°	193.8	193.8	194.8	196.8	195.8	195.8	197.8	198.8
70°	135.2	133.2	136.2	135.2	135.2	134.2	135.2	135.2
72.5°	85.5	85.5	86.5	85.5	83.5	84.5	84.5	86.5
75°	45.7	47.7	45.7	45.7	46.7	44.7	45.7	46.7
77.5°	18.9	18.9	18.9	18.9	18.9	17.9	17.9	17.9
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.0	8.0
82.5°	4.0	5.0	4.0	5.0	4.0	4.0	4.0	4.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
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)