

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: P879474

Luminaire Tested: **LD4C65D010 EU4659040 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: P879474
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: LD4C65D010 EU4659040 4LBLDWWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

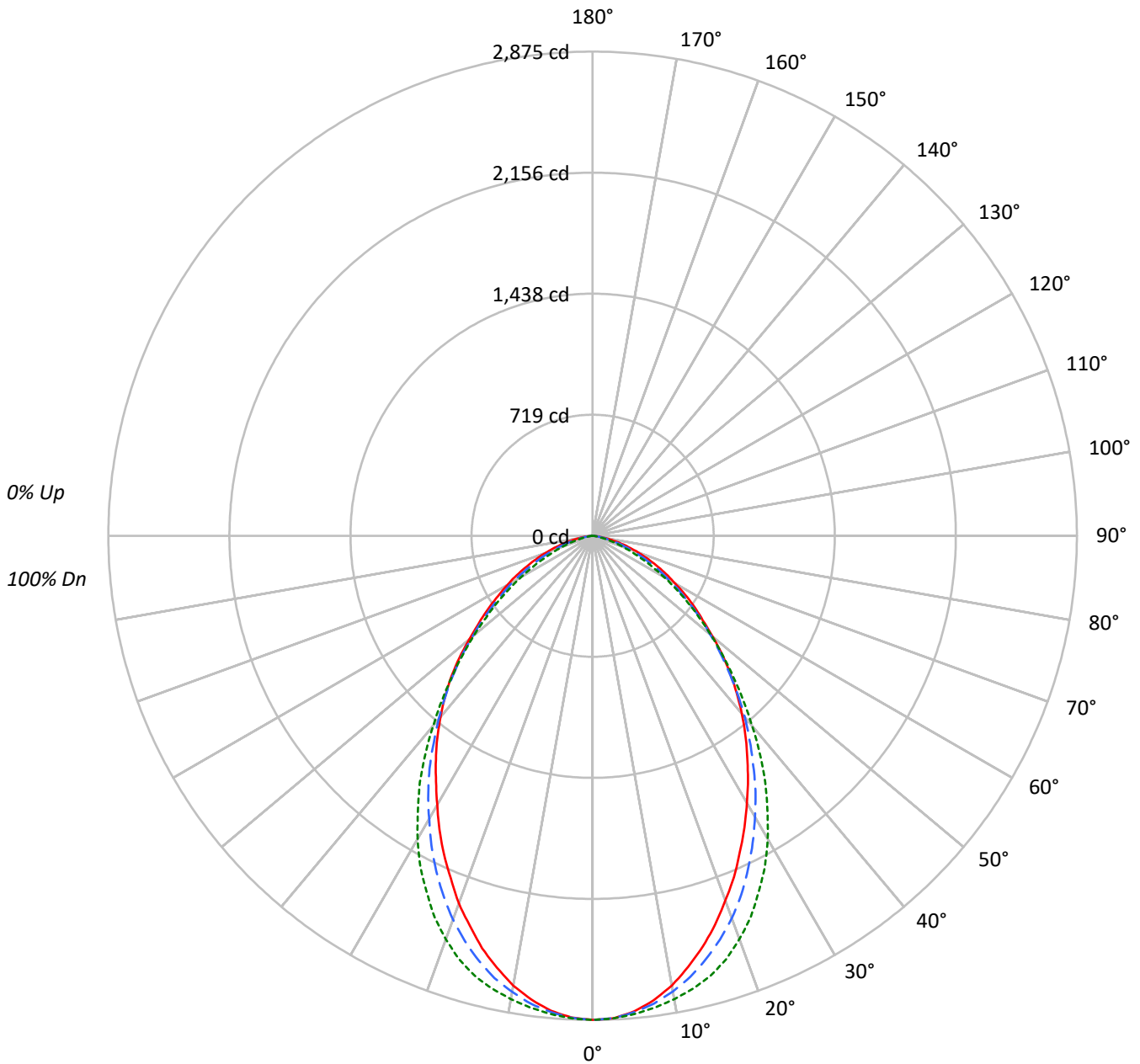
Lumens per Lamp: N/A
Luminaire Lumens: 5142.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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									
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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	353179	353179	353179
5°	349583	351532	349188
10°	338219	348485	338343
15°	321326	344016	322407
20°	301168	333199	303652
25°	280502	316125	283077
30°	259843	294896	261787
35°	239722	268068	243367
40°	221123	236199	225181
45°	200306	204702	206352
50°	177575	175339	182009
55°	158285	147662	161905
60°	138530	119856	143714
65°	121220	92674	125523
70°	102013	67889	107329
75°	79697	44097	84206
80°	52283	23135	57519
85°	17902	10431	23822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	5.2
10°-20°	733.3	14.3
20°-30°	1008.5	19.6
30°-40°	1052.1	20.5
40°-50°	900.1	17.5
50°-60°	643.8	12.5
60°-70°	373.6	7.3
70°-80°	144.0	2.8
80°-90°	18.3	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°	2010.1	39.1
0°-40°	3062.2	59.6
0°-60°	4606.1	89.6
0°-90°	5142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5142.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2875	2875	2875	2875	2875	
5°	2835	2840	2850	2840	2832	267
15°	2526	2602	2705	2612	2535	708
25°	2069	2183	2332	2197	2088	952
35°	1598	1662	1787	1688	1623	1001
45°	1153	1143	1178	1172	1188	889
55°	739	702	689	721	756	661
65°	417	368	319	381	432	416
75°	168	126	93	133	177	181
85°	13	10	7	11	17	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°	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8
2.5°	2867.4	2865.3	2866.4	2866.4	2866.4	2865.3	2867.4	2867.4	2866.4	2866.4	2866.4
5°	2834.7	2832.6	2833.6	2834.7	2834.7	2834.7	2835.7	2836.8	2837.8	2838.9	2840.0
7.5°	2781.9	2778.7	2781.9	2786.1	2786.1	2787.2	2788.2	2789.3	2792.5	2797.7	2800.9
10°	2711.2	2711.2	2712.2	2715.4	2720.7	2719.6	2722.8	2728.1	2734.4	2741.8	2747.1
12.5°	2621.4	2623.5	2626.7	2629.9	2635.1	2638.3	2643.6	2649.9	2660.5	2671.0	2682.7
15°	2526.4	2527.5	2528.5	2535.9	2541.2	2548.6	2552.8	2565.5	2575.0	2589.7	2602.4
17.5°	2419.8	2418.7	2421.9	2428.2	2440.9	2444.1	2449.3	2463.1	2476.8	2496.8	2513.7
20°	2303.6	2310.0	2314.2	2322.6	2330.0	2338.5	2342.7	2359.6	2375.4	2394.4	2416.6
22.5°	2193.8	2188.6	2196.0	2205.5	2211.8	2218.1	2225.5	2243.5	2260.4	2283.6	2305.8
25°	2069.3	2072.4	2077.7	2085.1	2093.5	2102.0	2110.4	2129.4	2138.9	2163.2	2183.3
27.5°	1951.0	1956.3	1958.4	1967.9	1975.3	1981.6	1985.9	2008.0	2016.5	2037.6	2057.7
30°	1831.7	1837.0	1837.0	1847.6	1852.8	1859.2	1869.7	1884.5	1897.2	1912.0	1926.7
32.5°	1716.6	1716.6	1720.9	1730.4	1735.6	1743.0	1746.2	1756.8	1769.4	1784.2	1800.0
35°	1598.4	1601.6	1605.8	1605.8	1615.3	1619.5	1623.7	1634.3	1642.7	1649.1	1661.7
37.5°	1489.7	1489.7	1486.5	1491.8	1498.1	1497.1	1503.4	1508.7	1513.9	1521.3	1531.9
40°	1378.8	1378.8	1374.6	1377.8	1382.0	1380.9	1378.8	1384.1	1388.3	1393.6	1404.1
42.5°	1265.8	1263.7	1262.7	1262.7	1264.8	1262.7	1264.8	1265.8	1265.8	1265.8	1272.2
45°	1152.9	1158.2	1151.8	1149.7	1146.5	1143.4	1142.3	1143.4	1147.6	1142.3	1143.4
47.5°	1042.0	1044.1	1039.9	1036.7	1033.6	1031.5	1033.6	1027.2	1029.4	1030.4	1026.2
50°	929.1	924.8	924.8	921.7	922.7	921.7	919.6	917.4	917.4	912.2	909.0
52.5°	824.5	826.7	828.8	821.4	822.4	817.1	818.2	812.9	812.9	806.6	808.7
55°	739.0	735.9	735.9	732.7	731.6	726.4	725.3	722.1	714.7	710.5	702.1
57.5°	650.3	649.3	645.1	646.1	639.8	638.7	636.6	631.3	626.1	620.8	611.3
60°	563.8	564.8	564.8	562.7	559.5	554.3	555.3	547.9	540.5	531.0	522.6
62.5°	492.0	488.8	487.8	485.6	479.3	479.3	474.0	468.8	461.4	451.9	444.5
65°	417.0	418.1	414.9	411.7	405.4	404.4	400.1	395.9	388.5	379.0	368.5
67.5°	349.5	347.3	346.3	343.1	336.8	335.7	332.6	323.1	316.7	307.2	298.8
70°	284.0	281.9	282.9	277.7	271.3	268.2	267.1	259.7	250.2	242.8	234.4
72.5°	222.8	222.8	221.7	216.4	213.3	211.1	206.9	198.5	193.2	184.8	178.4
75°	167.9	166.8	164.7	161.5	157.3	155.2	153.1	147.8	140.4	130.9	125.6
77.5°	116.1	117.2	115.1	114.0	108.7	105.6	104.5	101.4	95.0	88.7	83.4
80°	73.9	72.8	71.8	69.7	68.6	67.6	64.4	62.3	56.0	52.8	49.6
82.5°	40.1	38.0	38.0	37.0	34.8	33.8	32.7	30.6	29.6	27.4	25.3
85°	12.7	13.7	12.7	12.7	12.7	11.6	11.6	11.6	10.6	10.6	9.5
87.5°	1.1	2.1	1.1	1.1	2.1	1.1	1.1	2.1	1.1	1.1	2.1
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°	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8
2.5°	2866.4	2867.4	2867.4	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5	2868.5
5°	2843.1	2843.1	2845.2	2847.4	2847.4	2847.4	2848.4	2850.5	2850.5	2850.5	2849.5
7.5°	2805.1	2809.3	2813.6	2817.8	2818.8	2819.9	2822.0	2826.2	2826.2	2826.2	2826.2
10°	2755.5	2765.0	2770.3	2776.6	2779.8	2781.9	2788.2	2789.3	2792.5	2793.5	2792.5
12.5°	2692.2	2704.8	2716.4	2727.0	2731.2	2735.4	2741.8	2748.1	2751.3	2754.4	2753.4
15°	2621.4	2635.1	2653.1	2664.7	2673.2	2679.5	2689.0	2697.4	2702.7	2704.8	2704.8
17.5°	2535.9	2552.8	2571.8	2590.8	2596.1	2606.6	2617.2	2628.8	2635.1	2636.2	2635.1
20°	2440.9	2459.9	2475.7	2494.7	2506.3	2511.6	2526.4	2541.2	2547.5	2548.6	2547.5
22.5°	2327.9	2345.9	2367.0	2387.0	2396.5	2406.0	2421.9	2436.7	2445.1	2451.4	2445.1
25°	2202.3	2227.6	2247.7	2264.6	2278.3	2287.8	2307.9	2319.5	2333.2	2332.1	2333.2
27.5°	2078.8	2099.9	2122.1	2142.1	2150.6	2161.1	2177.0	2196.0	2207.6	2215.0	2213.9
30°	1952.1	1969.0	1988.0	2005.9	2019.6	2028.1	2051.3	2059.8	2074.5	2078.8	2075.6
32.5°	1818.0	1829.6	1848.6	1872.9	1878.2	1886.6	1901.4	1922.5	1927.8	1929.9	1931.0
35°	1675.5	1697.6	1713.5	1728.3	1732.5	1739.9	1756.8	1772.6	1777.9	1787.4	1783.2
37.5°	1543.5	1556.2	1563.6	1578.3	1591.0	1597.3	1605.8	1616.3	1626.9	1631.1	1630.1
40°	1411.5	1417.9	1424.2	1440.0	1441.1	1441.1	1453.8	1468.5	1468.5	1472.8	1472.8
42.5°	1276.4	1277.5	1285.9	1294.3	1296.5	1298.6	1311.2	1313.4	1319.7	1322.9	1327.1
45°	1145.5	1151.8	1157.1	1158.2	1163.4	1164.5	1167.7	1170.8	1180.3	1178.2	1180.3
47.5°	1026.2	1029.4	1032.5	1032.5	1035.7	1034.6	1039.9	1036.7	1043.1	1045.2	1048.4
50°	909.0	914.3	911.1	913.2	912.2	915.3	913.2	913.2	913.2	917.4	920.6
52.5°	801.3	802.4	799.2	800.3	800.3	798.1	800.3	799.2	798.1	798.1	799.2
55°	702.1	697.8	695.7	691.5	686.2	692.6	689.4	687.3	691.5	689.4	691.5
57.5°	606.0	600.7	596.5	594.4	587.0	591.2	587.0	584.9	584.9	584.9	590.2
60°	515.2	509.9	504.6	498.3	497.3	495.1	493.0	487.8	488.8	487.8	489.9
62.5°	436.0	425.5	418.1	412.8	411.7	408.6	405.4	400.1	401.2	401.2	402.2
65°	363.2	351.6	341.0	333.6	333.6	328.3	323.1	323.1	316.7	318.8	319.9
67.5°	290.3	280.8	270.3	265.0	261.8	257.6	254.4	252.3	249.2	249.2	251.3
70°	224.9	215.4	210.1	201.6	200.6	197.4	193.2	190.0	189.0	189.0	187.9
72.5°	170.0	161.5	155.2	149.9	146.7	143.6	139.4	138.3	136.2	136.2	138.3
75°	118.2	113.0	107.7	102.4	100.3	99.2	96.1	94.0	94.0	92.9	94.0
77.5°	79.2	73.9	68.6	66.5	64.4	62.3	61.2	60.2	57.0	57.0	57.0
80°	45.4	43.3	41.2	38.0	38.0	37.0	34.8	33.8	32.7	32.7	32.7
82.5°	23.2	22.2	20.1	19.0	19.0	19.0	17.9	17.9	16.9	16.9	16.9
85°	9.5	8.4	7.4	7.4	7.4	7.4	7.4	7.4	8.4	7.4	8.4
87.5°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8
2.5°	2868.5	2867.4	2867.4	2867.4	2867.4	2867.4	2866.4	2866.4	2865.3	2865.3	2865.3
5°	2850.5	2849.5	2848.4	2847.4	2846.3	2845.2	2844.2	2843.1	2840.0	2838.9	2836.8
7.5°	2825.2	2823.1	2819.9	2818.8	2816.7	2813.6	2809.3	2807.2	2803.0	2797.7	2795.6
10°	2791.4	2787.2	2784.0	2778.7	2777.7	2773.4	2762.9	2757.6	2750.2	2743.9	2736.5
12.5°	2750.2	2746.0	2738.6	2731.2	2727.0	2717.5	2708.0	2699.5	2690.0	2676.3	2665.8
15°	2699.5	2693.2	2678.4	2676.3	2670.0	2655.2	2642.5	2626.7	2611.9	2597.1	2584.5
17.5°	2632.0	2618.3	2610.9	2601.4	2594.0	2575.0	2561.2	2543.3	2523.2	2506.3	2488.4
20°	2543.3	2528.5	2515.8	2510.6	2501.1	2484.2	2467.3	2445.1	2425.1	2403.9	2388.1
22.5°	2437.7	2428.2	2409.2	2402.9	2391.3	2374.4	2354.3	2333.2	2314.2	2291.0	2269.9
25°	2324.8	2311.0	2296.3	2283.6	2275.1	2259.3	2234.0	2218.1	2197.0	2171.7	2155.8
27.5°	2204.4	2188.6	2167.5	2159.0	2151.6	2130.5	2109.4	2089.3	2072.4	2050.3	2036.5
30°	2065.0	2053.4	2039.7	2029.1	2018.6	2001.7	1982.7	1959.5	1941.5	1931.0	1912.0
32.5°	1923.6	1914.1	1896.1	1890.8	1879.2	1865.5	1851.8	1834.9	1815.9	1800.0	1785.3
35°	1772.6	1763.1	1750.4	1740.9	1736.7	1727.2	1712.4	1697.6	1688.1	1670.2	1662.8
37.5°	1621.6	1618.5	1605.8	1596.3	1593.1	1581.5	1574.1	1563.6	1549.8	1545.6	1537.2
40°	1466.4	1464.3	1456.9	1455.9	1449.5	1446.4	1435.8	1427.4	1421.0	1417.9	1412.6
42.5°	1323.9	1321.8	1315.5	1316.5	1310.2	1308.1	1307.0	1299.6	1294.3	1288.0	1289.1
45°	1183.5	1181.4	1177.2	1175.0	1178.2	1177.2	1175.0	1171.9	1171.9	1172.9	1169.8
47.5°	1048.4	1050.5	1046.2	1048.4	1048.4	1045.2	1045.2	1049.4	1050.5	1052.6	1054.7
50°	920.6	926.9	924.8	928.0	929.1	930.1	926.9	932.2	931.2	940.7	938.6
52.5°	804.5	805.5	809.8	810.8	811.9	812.9	818.2	822.4	823.5	827.7	835.1
55°	692.6	693.6	702.1	702.1	707.4	708.4	715.8	717.9	721.1	732.7	734.8
57.5°	587.0	593.3	597.6	599.7	602.8	608.1	612.3	621.8	627.1	634.5	641.9
60°	492.0	499.4	504.6	506.8	511.0	517.3	522.6	533.2	542.7	551.1	556.4
62.5°	404.4	410.7	414.9	422.3	422.3	427.6	440.2	446.6	457.1	464.5	474.0
65°	326.2	330.4	337.8	337.8	342.1	350.5	361.1	370.6	381.1	391.7	401.2
67.5°	255.5	258.7	262.9	267.1	269.2	279.8	288.2	301.9	311.4	318.8	330.4
70°	193.2	195.3	200.6	204.8	208.0	215.4	224.9	234.4	243.9	252.3	263.9
72.5°	138.3	142.5	147.8	151.0	153.1	158.4	167.9	177.4	185.8	194.3	200.6
75°	95.0	98.2	100.3	103.5	106.6	110.9	117.2	123.5	133.0	141.5	148.9
77.5°	59.1	62.3	65.5	66.5	67.6	71.8	76.0	82.3	88.7	95.0	100.3
80°	34.8	35.9	37.0	38.0	40.1	43.3	45.4	49.6	53.8	58.1	63.3
82.5°	17.9	19.0	20.1	20.1	20.1	21.1	24.3	26.4	27.4	29.6	32.7
85°	7.4	7.4	7.4	8.4	8.4	9.5	9.5	10.6	10.6	11.6	12.7
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P879474

CATALOG NUMBER: LD4C65D010 EU4659040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8	2874.8
2.5°	2864.2	2864.2	2864.2	2863.2	2864.2	2864.2	2864.2	2863.2
5°	2836.8	2834.7	2834.7	2833.6	2832.6	2832.6	2833.6	2831.5
7.5°	2791.4	2788.2	2786.1	2786.1	2785.1	2784.0	2784.0	2778.7
10°	2732.3	2725.9	2725.9	2723.8	2715.4	2714.3	2712.2	2712.2
12.5°	2658.4	2651.0	2646.8	2641.5	2636.2	2632.0	2630.9	2626.7
15°	2570.7	2561.2	2553.9	2551.7	2543.3	2537.0	2537.0	2534.9
17.5°	2475.7	2460.9	2455.7	2450.4	2438.8	2437.7	2435.6	2426.1
20°	2368.0	2354.3	2346.9	2341.6	2334.3	2323.7	2321.6	2322.6
22.5°	2255.1	2236.1	2229.7	2224.5	2217.1	2207.6	2207.6	2200.2
25°	2137.9	2121.0	2114.7	2108.3	2096.7	2092.5	2087.2	2088.3
27.5°	2018.6	2002.8	1997.5	1985.9	1978.5	1973.2	1967.9	1967.9
30°	1894.0	1885.6	1877.1	1876.1	1861.3	1854.9	1849.7	1845.4
32.5°	1773.7	1763.1	1758.9	1754.7	1747.3	1738.8	1737.8	1730.4
35°	1655.4	1644.9	1639.6	1635.4	1626.9	1623.7	1620.6	1622.7
37.5°	1530.8	1528.7	1525.6	1520.3	1515.0	1513.9	1509.7	1515.0
40°	1408.4	1407.3	1403.1	1404.1	1404.1	1402.0	1404.1	1404.1
42.5°	1290.1	1290.1	1285.9	1288.0	1289.1	1291.2	1294.3	1296.5
45°	1175.0	1174.0	1175.0	1177.2	1175.0	1180.3	1184.5	1187.7
47.5°	1056.8	1057.9	1062.1	1063.1	1065.2	1072.6	1072.6	1072.6
50°	943.8	949.1	947.0	953.3	952.3	956.5	952.3	952.3
52.5°	836.2	841.4	842.5	843.5	849.9	850.9	850.9	849.9
55°	740.1	747.5	744.3	749.6	752.7	754.9	758.0	755.9
57.5°	651.4	654.6	657.7	658.8	663.0	665.1	667.2	665.1
60°	563.8	570.1	575.4	576.4	578.5	580.7	581.7	584.9
62.5°	481.4	492.0	494.1	495.1	500.4	503.6	505.7	507.8
65°	408.6	416.0	421.2	424.4	428.6	428.6	431.8	431.8
67.5°	337.8	345.2	348.4	350.5	356.8	357.9	363.2	363.2
70°	273.4	278.7	280.8	284.0	290.3	294.6	296.7	298.8
72.5°	211.1	217.5	220.7	224.9	229.1	232.3	233.3	236.5
75°	154.1	163.6	164.7	168.9	172.1	176.3	178.4	177.4
77.5°	107.7	110.9	115.1	117.2	120.4	123.5	126.7	126.7
80°	66.5	70.7	71.8	72.8	77.1	79.2	81.3	81.3
82.5°	34.8	37.0	39.1	40.1	42.2	42.2	43.3	44.3
85°	13.7	14.8	14.8	14.8	15.8	16.9	16.9	16.9
87.5°	2.1	3.2	2.1	2.1	3.2	3.2	3.2	3.2
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)