

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: P879477

Luminaire Tested: **LD4C65D010 EU4659050 4LBLDWWLI**

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: P879477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EU4659050 4LBLDWWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

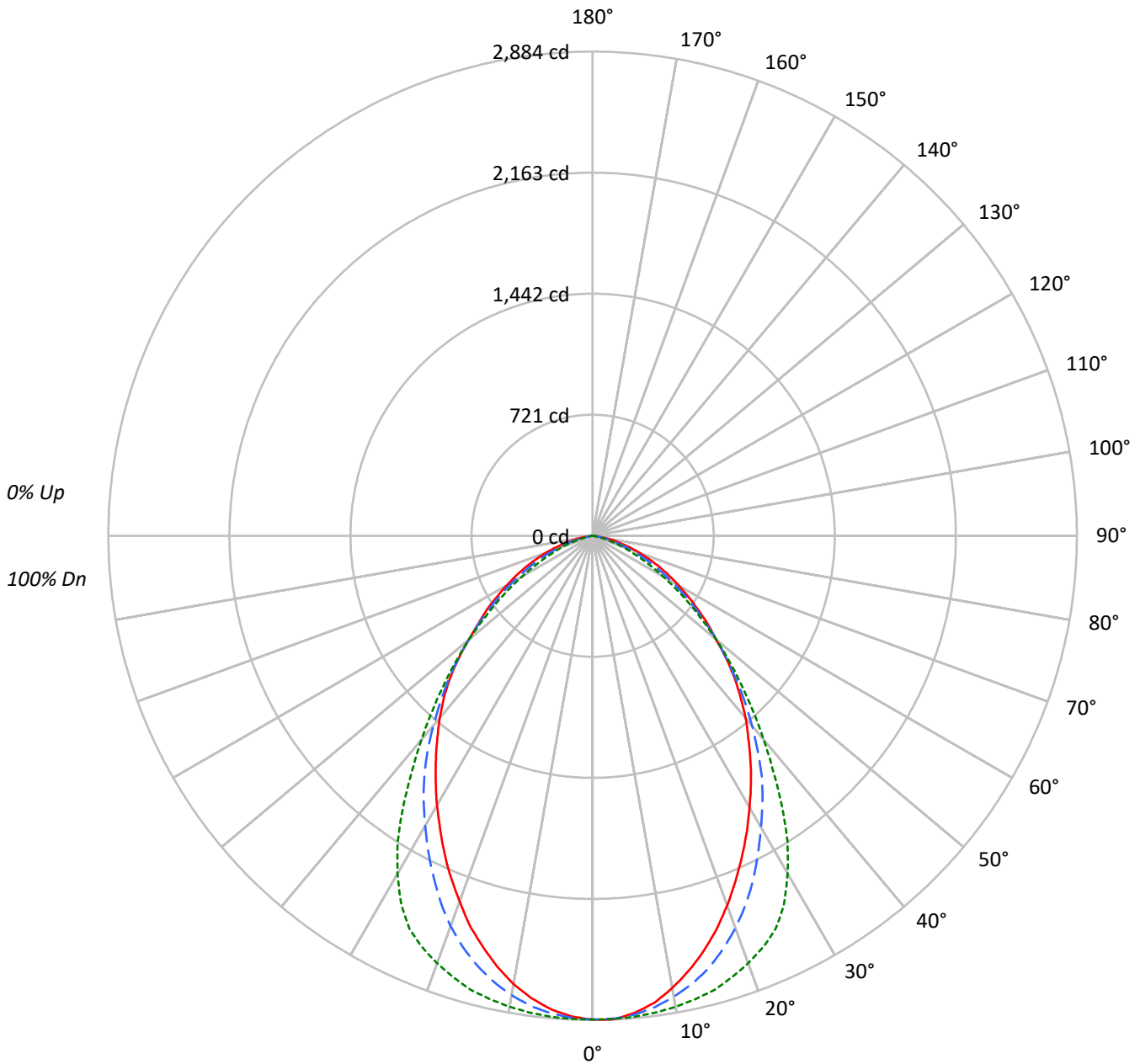
Lumens per Lamp: N/A
Luminaire Lumens: 5292.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77				
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
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	45	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°	354002	354002	354002
5°	351889	354553	349238
10°	341175	355421	338219
15°	325510	356201	321936
20°	306280	354169	302894
25°	285273	349986	282941
30°	265063	329581	262921
35°	245811	294779	244042
40°	227250	254209	227073
45°	207065	216985	208750
50°	182889	183500	183921
55°	163876	150018	164561
60°	144820	119143	145090
65°	127499	90843	126249
70°	105677	65015	105677
75°	82355	37356	79270
80°	53344	9127	51080
85°	19734	3101	15224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	5.1
10°-20°	748.4	14.1
20°-30°	1046.1	19.8
30°-40°	1103.5	20.9
40°-50°	938.8	17.7
50°-60°	662.4	12.5
60°-70°	375.5	7.1
70°-80°	134.0	2.5
80°-90°	12.9	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°	2065.0	39.0
0°-40°	3168.5	59.9
0°-60°	4769.7	90.1
0°-90°	5292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5292.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2882	2882	2882	2882	2882	
5°	2853	2863	2875	2854	2832	269
15°	2559	2667	2801	2652	2531	718
25°	2104	2262	2582	2241	2087	968
35°	1639	1758	1966	1748	1627	1025
45°	1192	1209	1249	1214	1202	916
55°	765	739	700	741	768	687
65°	439	376	312	377	434	434
75°	174	118	79	116	167	188
85°	14	5	2	5	11	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°	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5
2.5°	2883.6	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2879.3	2879.3
5°	2853.4	2851.3	2850.2	2850.2	2850.2	2850.2	2851.3	2855.6	2857.8	2861.0	2863.1
7.5°	2806.0	2801.7	2803.9	2803.9	2806.0	2808.2	2811.4	2815.7	2822.2	2826.5	2831.9
10°	2734.9	2730.6	2736.0	2738.1	2744.6	2747.8	2753.2	2759.7	2772.6	2779.1	2787.7
12.5°	2651.9	2649.8	2651.9	2660.6	2667.0	2671.3	2677.8	2691.8	2704.7	2718.7	2733.8
15°	2559.3	2553.9	2557.1	2567.9	2578.7	2586.2	2591.6	2609.9	2627.2	2648.7	2667.0
17.5°	2455.8	2448.3	2456.9	2465.5	2479.5	2486.0	2493.5	2514.0	2537.7	2561.4	2581.9
20°	2342.7	2340.5	2345.9	2357.8	2371.8	2380.4	2386.9	2409.5	2430.0	2462.3	2486.0
22.5°	2225.2	2227.4	2231.7	2244.6	2254.3	2266.2	2275.9	2296.3	2320.0	2350.2	2380.4
25°	2104.5	2107.8	2115.3	2123.9	2140.1	2146.5	2158.4	2180.0	2200.4	2228.4	2261.9
27.5°	1988.1	1989.2	1997.8	2002.2	2017.2	2031.2	2036.6	2059.3	2083.0	2104.5	2133.6
30°	1868.5	1871.8	1877.2	1889.0	1904.1	1909.5	1915.9	1936.4	1954.7	1981.7	2004.3
32.5°	1754.3	1752.2	1758.6	1765.1	1782.3	1792.0	1795.3	1819.0	1835.1	1862.1	1883.6
35°	1639.0	1633.6	1643.3	1649.8	1664.9	1673.5	1677.8	1696.1	1711.2	1733.8	1757.5
37.5°	1523.7	1528.0	1532.3	1537.7	1545.3	1547.4	1560.3	1564.7	1584.1	1601.3	1614.2
40°	1417.0	1414.9	1412.7	1418.1	1427.8	1432.1	1433.2	1445.0	1449.4	1466.6	1476.3
42.5°	1302.8	1303.9	1302.8	1303.9	1309.3	1309.3	1312.5	1320.0	1323.3	1328.7	1340.5
45°	1191.8	1191.8	1188.6	1189.7	1190.7	1189.7	1190.7	1194.0	1200.4	1200.4	1209.1
47.5°	1076.5	1074.4	1078.7	1075.4	1073.3	1072.2	1075.4	1072.2	1078.7	1078.7	1080.8
50°	956.9	956.9	962.3	961.2	963.4	959.1	960.1	960.1	961.2	960.1	964.4
52.5°	864.2	862.1	859.9	854.5	856.7	852.4	852.4	853.4	850.2	849.1	843.7
55°	765.1	767.2	764.0	761.9	761.9	757.5	756.5	750.0	745.7	742.5	739.2
57.5°	675.6	677.8	676.7	671.3	664.9	665.9	663.8	657.3	647.6	641.2	635.8
60°	589.4	591.6	589.4	584.1	581.9	577.6	576.5	567.9	560.3	551.7	545.3
62.5°	511.9	511.9	510.8	503.2	497.8	498.9	493.5	487.1	477.4	465.5	455.8
65°	438.6	437.5	432.1	428.9	424.6	419.2	415.9	406.2	398.7	389.0	376.1
67.5°	365.3	362.1	359.9	356.7	347.0	345.9	341.6	333.0	322.2	314.7	303.9
70°	294.2	293.1	288.8	288.8	281.2	278.0	271.6	264.0	254.3	243.5	234.9
72.5°	232.8	230.6	226.3	222.0	215.5	213.4	208.0	200.4	191.8	181.0	170.3
75°	173.5	171.3	170.3	164.9	159.5	154.1	151.9	144.4	135.8	128.2	118.5
77.5°	121.8	119.6	116.4	113.1	109.9	106.7	103.4	97.0	89.4	83.0	74.4
80°	75.4	73.3	71.1	70.0	66.8	65.7	61.4	58.2	51.7	47.4	42.0
82.5°	38.8	38.8	36.6	35.6	33.4	32.3	31.2	28.0	24.8	21.6	18.3
85°	14.0	14.0	12.9	11.9	11.9	10.8	10.8	9.7	7.5	7.5	5.4
87.5°	1.1	1.1	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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°	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5
2.5°	2880.4	2879.3	2880.4	2880.4	2881.5	2881.5	2881.5	2880.4	2881.5	2880.4	2880.4
5°	2863.1	2866.4	2868.5	2870.7	2871.8	2872.8	2872.8	2873.9	2875.0	2875.0	2873.9
7.5°	2836.2	2842.7	2849.1	2853.4	2855.6	2857.8	2861.0	2863.1	2865.3	2864.2	2863.1
10°	2800.6	2811.4	2820.0	2828.7	2833.0	2836.2	2841.6	2845.9	2848.1	2849.1	2845.9
12.5°	2750.0	2765.1	2779.1	2793.1	2799.6	2803.9	2814.7	2822.2	2826.5	2826.5	2823.3
15°	2686.4	2708.0	2728.4	2746.8	2757.5	2764.0	2780.2	2790.9	2797.4	2800.6	2795.3
17.5°	2609.9	2634.7	2659.5	2683.2	2694.0	2703.7	2726.3	2741.4	2755.4	2757.5	2751.1
20°	2511.9	2543.1	2571.1	2600.2	2612.1	2627.2	2653.0	2677.8	2699.4	2709.0	2690.7
22.5°	2401.9	2436.4	2462.3	2497.8	2514.0	2530.2	2563.6	2594.8	2632.5	2653.0	2620.7
25°	2287.7	2316.8	2348.1	2382.5	2405.2	2422.4	2461.2	2501.1	2551.7	2581.9	2536.6
27.5°	2164.9	2190.7	2228.4	2266.2	2283.4	2305.0	2351.3	2394.4	2442.9	2469.8	2436.4
30°	2037.7	2070.0	2105.6	2140.1	2164.9	2185.3	2223.1	2259.7	2300.6	2323.3	2298.5
32.5°	1911.6	1942.9	1973.1	2010.8	2024.8	2043.1	2076.5	2107.8	2139.0	2159.5	2130.4
35°	1779.1	1807.1	1835.1	1861.0	1867.5	1889.0	1915.9	1934.3	1949.4	1965.5	1946.1
37.5°	1634.7	1656.2	1670.3	1698.3	1709.0	1712.3	1733.8	1746.8	1762.9	1766.2	1765.1
40°	1488.1	1507.5	1519.4	1536.6	1545.3	1545.3	1560.3	1572.2	1584.1	1585.1	1584.1
42.5°	1351.3	1361.0	1370.7	1381.5	1379.3	1392.2	1398.7	1404.1	1412.7	1412.7	1414.9
45°	1213.4	1220.9	1229.5	1231.7	1240.3	1240.3	1245.7	1247.8	1252.2	1248.9	1244.6
47.5°	1085.1	1088.4	1089.4	1099.1	1101.3	1093.7	1100.2	1101.3	1100.2	1100.2	1098.1
50°	963.4	965.5	964.4	961.2	962.3	965.5	962.3	958.0	960.1	960.1	962.3
52.5°	844.8	840.5	838.4	838.4	834.1	834.1	828.7	826.5	825.4	821.1	826.5
55°	736.0	729.5	719.8	717.7	714.4	713.4	706.9	701.5	699.4	700.4	699.4
57.5°	631.5	621.8	615.3	613.1	609.9	603.4	595.9	590.5	589.4	587.3	587.3
60°	536.6	525.9	516.2	506.5	507.5	503.2	495.7	492.5	489.2	484.9	488.1
62.5°	450.4	438.6	427.8	418.1	411.6	408.4	403.0	397.6	394.4	391.2	395.5
65°	365.3	355.6	343.7	334.1	330.8	327.6	322.2	313.6	312.5	312.5	314.7
67.5°	288.8	278.0	267.2	260.8	256.5	252.2	250.0	245.7	242.5	240.3	241.4
70°	222.0	211.2	202.6	196.1	192.9	191.8	184.3	183.2	182.1	181.0	180.0
72.5°	161.6	153.0	145.5	141.2	136.9	133.6	131.5	128.2	127.2	127.2	127.2
75°	111.0	104.5	95.9	90.5	88.4	85.1	81.9	79.7	77.6	78.7	78.7
77.5°	66.8	60.3	55.0	50.6	49.6	46.3	43.1	40.9	37.7	37.7	38.8
80°	36.6	31.2	26.9	23.7	21.6	20.5	17.2	16.2	14.0	12.9	12.9
82.5°	16.2	12.9	10.8	9.7	8.6	7.5	6.5	5.4	5.4	4.3	5.4
85°	5.4	4.3	3.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5
2.5°	2879.3	2879.3	2878.2	2878.2	2878.2	2876.1	2876.1	2875.0	2873.9	2872.8	2870.7
5°	2871.8	2870.7	2868.5	2867.5	2866.4	2863.1	2859.9	2857.8	2854.5	2850.2	2848.1
7.5°	2861.0	2857.8	2853.4	2851.3	2848.1	2840.5	2835.1	2829.7	2824.4	2816.8	2808.2
10°	2842.7	2836.2	2829.7	2825.4	2820.0	2810.3	2799.6	2790.9	2779.1	2768.3	2756.5
12.5°	2816.8	2809.3	2796.3	2789.9	2783.4	2769.4	2755.4	2737.1	2720.9	2705.8	2691.8
15°	2784.5	2770.5	2755.4	2746.8	2737.1	2714.4	2692.9	2673.5	2651.9	2633.6	2611.0
17.5°	2737.1	2716.6	2695.0	2685.3	2672.4	2646.5	2620.7	2593.7	2569.0	2546.3	2518.3
20°	2665.9	2643.3	2615.3	2600.2	2589.4	2555.0	2530.2	2500.0	2474.1	2446.1	2414.9
22.5°	2583.0	2551.7	2520.5	2498.9	2487.1	2452.6	2419.2	2392.2	2364.2	2331.9	2309.3
25°	2489.2	2450.4	2412.7	2391.2	2372.8	2336.2	2303.9	2275.9	2241.4	2213.4	2190.7
27.5°	2383.6	2339.4	2295.3	2273.7	2256.5	2216.6	2182.1	2153.0	2119.6	2094.8	2071.1
30°	2257.5	2217.7	2175.6	2158.4	2137.9	2097.0	2057.1	2031.2	1994.6	1968.7	1942.9
32.5°	2100.2	2074.4	2040.9	2017.2	2006.5	1968.7	1935.3	1904.1	1872.8	1852.4	1826.5
35°	1927.8	1905.2	1877.2	1864.2	1850.2	1826.5	1799.6	1772.6	1747.8	1728.4	1704.7
37.5°	1753.2	1730.6	1713.4	1699.4	1690.7	1669.2	1653.0	1632.5	1615.3	1597.0	1584.1
40°	1572.2	1565.7	1547.4	1540.9	1538.8	1515.1	1501.1	1484.9	1474.1	1463.4	1455.8
42.5°	1411.6	1400.9	1386.9	1387.9	1381.5	1368.5	1358.8	1348.1	1340.5	1335.1	1327.6
45°	1253.2	1244.6	1238.1	1243.5	1232.8	1228.4	1220.9	1219.8	1214.4	1204.7	1201.5
47.5°	1102.4	1101.3	1102.4	1099.1	1097.0	1094.8	1095.9	1090.5	1085.1	1081.9	1077.6
50°	964.4	965.5	967.7	970.9	963.4	966.6	965.5	964.4	964.4	961.2	963.4
52.5°	830.8	831.9	834.1	837.3	838.4	838.4	841.6	843.7	848.1	853.4	853.4
55°	704.7	712.3	716.6	722.0	718.7	725.2	728.4	738.1	741.4	741.4	745.7
57.5°	592.7	600.2	603.4	609.9	612.1	617.5	626.1	631.5	639.0	645.5	651.9
60°	490.3	493.5	502.2	511.9	509.7	522.6	529.1	537.7	547.4	551.7	560.3
62.5°	398.7	403.0	409.5	412.7	420.3	426.7	441.8	450.4	459.1	469.8	478.4
65°	316.8	321.1	327.6	334.1	337.3	347.0	354.5	369.6	377.2	389.0	398.7
67.5°	242.5	248.9	254.3	258.6	260.8	270.5	282.3	288.8	302.8	314.7	322.2
70°	181.0	186.4	192.9	191.8	196.1	203.7	212.3	222.0	232.8	243.5	252.2
72.5°	126.1	131.5	135.8	136.9	141.2	146.6	153.0	160.6	169.2	180.0	191.8
75°	79.7	80.8	85.1	87.3	89.4	95.9	101.3	108.8	116.4	125.0	132.5
77.5°	39.9	43.1	45.3	47.4	48.5	53.9	59.3	65.7	72.2	80.8	88.4
80°	15.1	16.2	19.4	20.5	22.6	25.9	30.2	33.4	38.8	45.3	49.6
82.5°	5.4	6.5	7.5	7.5	8.6	10.8	11.9	15.1	18.3	20.5	22.6
85°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	5.4	6.5	6.5
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



TEST NUMBER: P879477

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5	2881.5
2.5°	2869.6	2869.6	2868.5	2867.5	2867.5	2867.5	2866.4	2866.4
5°	2843.7	2840.5	2839.4	2837.3	2836.2	2835.1	2831.9	2831.9
7.5°	2801.7	2797.4	2794.2	2790.9	2786.6	2783.4	2783.4	2779.1
10°	2745.7	2737.1	2732.8	2728.4	2723.1	2716.6	2714.4	2711.2
12.5°	2677.8	2660.6	2656.2	2648.7	2640.1	2635.8	2628.2	2628.2
15°	2593.7	2575.4	2565.7	2561.4	2550.6	2543.1	2539.9	2531.2
17.5°	2495.7	2481.7	2466.6	2460.1	2448.3	2438.6	2434.3	2433.2
20°	2396.5	2373.9	2364.2	2354.5	2340.5	2331.9	2325.4	2316.8
22.5°	2282.3	2261.9	2247.8	2241.4	2229.5	2214.4	2203.7	2203.7
25°	2161.6	2143.3	2135.8	2121.8	2107.8	2102.4	2089.4	2087.3
27.5°	2046.3	2028.0	2012.9	2005.4	1989.2	1981.7	1970.9	1966.6
30°	1926.7	1905.2	1894.4	1893.3	1873.9	1866.4	1857.8	1853.4
32.5°	1807.1	1788.8	1778.0	1771.5	1762.9	1750.0	1742.5	1738.1
35°	1688.6	1676.7	1667.0	1659.5	1645.5	1639.0	1632.5	1627.2
37.5°	1564.7	1553.9	1549.6	1543.1	1536.6	1524.8	1522.6	1518.3
40°	1445.0	1431.0	1431.0	1426.7	1420.3	1419.2	1415.9	1415.9
42.5°	1320.0	1313.6	1312.5	1313.6	1309.3	1307.1	1303.9	1311.4
45°	1196.1	1199.4	1194.0	1195.0	1192.9	1197.2	1197.2	1201.5
47.5°	1081.9	1077.6	1079.7	1081.9	1085.1	1085.1	1084.1	1083.0
50°	960.1	964.4	968.7	963.4	965.5	966.6	961.2	962.3
52.5°	855.6	856.7	859.9	856.7	859.9	858.8	861.0	856.7
55°	754.3	754.3	758.6	759.7	760.8	764.0	765.1	768.3
57.5°	656.2	661.6	667.0	665.9	670.3	674.6	671.3	674.6
60°	571.1	575.4	580.8	583.0	586.2	588.4	588.4	590.5
62.5°	484.9	493.5	497.8	502.2	502.2	506.5	510.8	511.9
65°	407.3	417.0	420.3	423.5	425.6	430.0	435.3	434.3
67.5°	334.1	340.5	344.8	347.0	353.4	355.6	359.9	364.2
70°	261.9	270.5	273.7	278.0	283.4	287.7	292.0	294.2
72.5°	200.4	206.9	209.1	213.4	218.7	223.1	225.2	228.4
75°	140.1	150.9	151.9	155.2	159.5	164.9	168.1	167.0
77.5°	92.7	100.2	101.3	105.6	109.9	114.2	115.3	116.4
80°	55.0	59.3	60.3	62.5	65.7	67.9	70.0	72.2
82.5°	25.9	28.0	30.2	30.2	32.3	34.5	34.5	35.6
85°	8.6	8.6	9.7	9.7	10.8	10.8	11.9	10.8
87.5°	1.1	1.1	0.0	1.1	1.1	1.1	1.1	1.1
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)