

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: P880607

Luminaire Tested: **LD4C75D010 EU4759027 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: P880607
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: LD4C75D010 EU4759027 4LBDWNH
Description: 4 INCH 7500 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

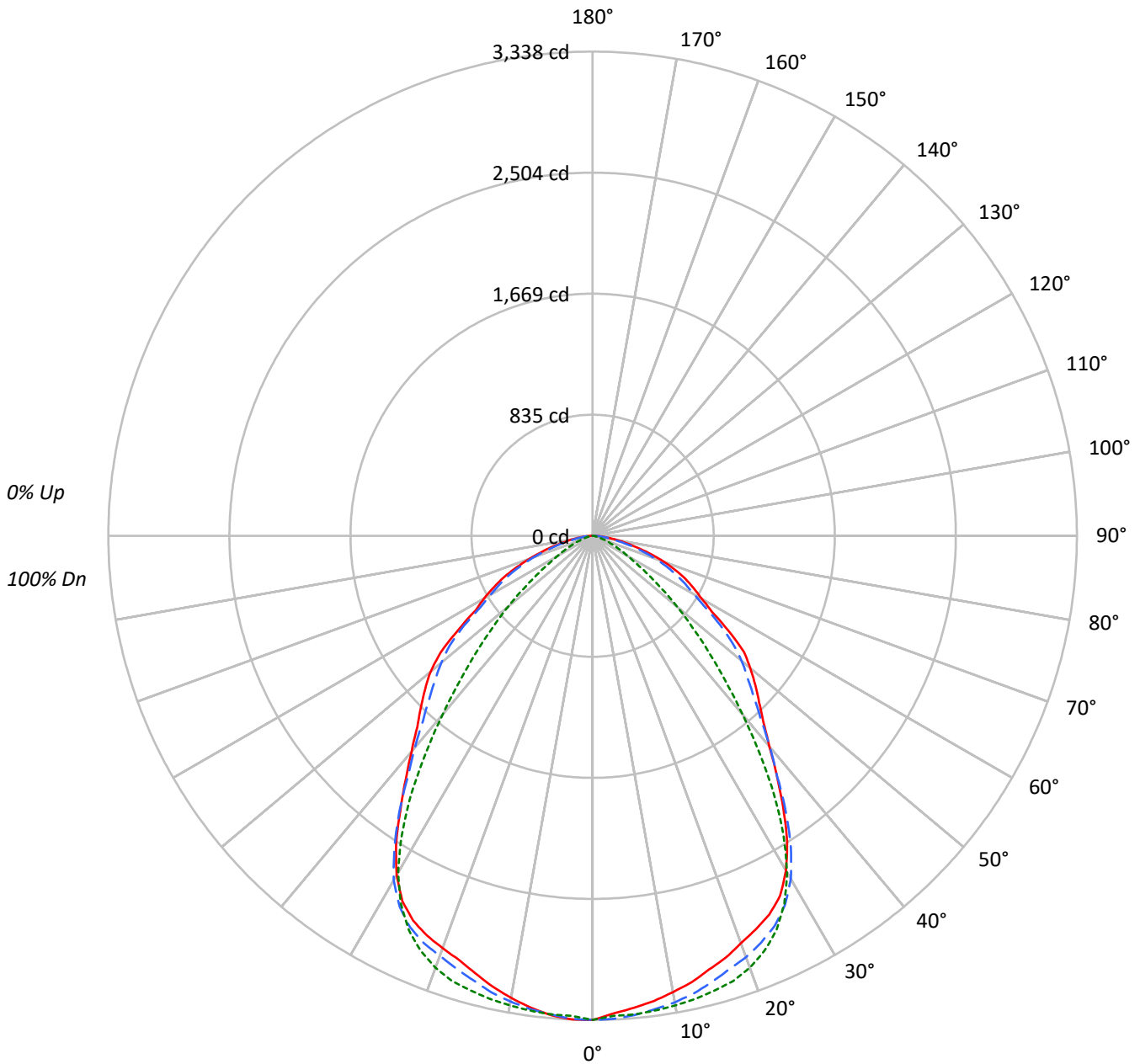
Lumens per Lamp: N/A
Luminaire Lumens: 6793.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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

TEST NUMBER: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

Luminous Intensity Polar Plot





TEST NUMBER: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

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				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°	410060	410060	410060
5°	402784	408470	409086
10°	398460	409999	403574
15°	393835	412748	397091
20°	390710	414243	395417
25°	390503	406512	396752
30°	378068	380267	383175
35°	343476	327323	346565
40°	303876	257737	311270
45°	281912	196258	290860
50°	270883	145275	278738
55°	245267	100112	241947
60°	213224	68135	211996
65°	206016	49302	195551
70°	186281	33226	165950
75°	153508	21882	131626
80°	123527	14503	98057
85°	101490	7189	64982



TEST NUMBER: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	4.6
10°-20°	900.9	13.3
20°-30°	1361.1	20.0
30°-40°	1424.4	21.0
40°-50°	1153.6	17.0
50°-60°	839.1	12.4
60°-70°	517.5	7.6
70°-80°	233.8	3.4
80°-90°	47.5	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°	2577.0	37.9
0°-40°	4001.4	58.9
0°-60°	5994.1	88.2
0°-90°	6793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6793.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3338	3338	3338	3338	3338	
5°	3266	3317	3312	3312	3317	310
15°	3096	3184	3245	3174	3122	875
25°	2881	2968	2999	2978	2927	1320
35°	2290	2321	2182	2321	2311	1427
45°	1623	1572	1130	1592	1674	1261
55°	1145	1073	467	1084	1130	1022
65°	709	637	170	627	673	694
75°	323	277	46	241	277	351
85°	72	56	5	41	46	83
90°	0	0	0	0	0	



TEST NUMBER: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3296.7	3296.7	3327.7	3363.3	3332.7	3301.8	3322.3	3312.2	3348.2	3348.2	3332.7
5°	3266.1	3276.2	3301.8	3332.7	3307.1	3276.2	3301.8	3291.7	3327.7	3327.7	3317.2
7.5°	3235.1	3240.2	3271.1	3307.1	3281.2	3250.6	3271.1	3266.1	3296.7	3301.8	3291.7
10°	3194.1	3199.1	3230.1	3266.1	3240.2	3214.6	3235.1	3230.1	3271.1	3271.1	3266.1
12.5°	3153.0	3158.1	3189.0	3219.6	3194.1	3168.5	3189.0	3189.0	3230.1	3235.1	3230.1
15°	3096.5	3106.6	3132.5	3163.1	3148.0	3117.0	3137.5	3137.5	3173.5	3183.6	3183.6
17.5°	3050.4	3055.4	3081.0	3112.0	3091.4	3065.5	3086.1	3086.1	3122.1	3132.5	3132.5
20°	2988.5	2998.9	3024.5	3055.4	3040.0	3019.4	3034.9	3034.9	3076.0	3086.1	3091.4
22.5°	2937.3	2947.4	2967.9	3009.3	2983.4	2967.9	2988.5	2983.4	3029.8	3034.9	3034.9
25°	2880.8	2891.2	2916.8	2942.4	2926.9	2911.7	2926.9	2926.9	2962.9	2967.9	2967.9
27.5°	2798.7	2803.7	2829.3	2855.2	2839.7	2819.2	2839.7	2834.7	2870.4	2875.7	2870.4
30°	2665.1	2675.5	2685.6	2721.6	2706.1	2690.7	2711.2	2701.1	2737.1	2737.1	2731.7
32.5°	2495.5	2495.5	2516.3	2541.9	2521.4	2511.0	2526.5	2531.5	2557.4	2557.4	2541.9
35°	2290.2	2300.7	2315.8	2331.3	2315.8	2305.7	2321.2	2315.8	2346.8	2336.3	2321.2
37.5°	2085.0	2090.0	2105.5	2126.0	2105.5	2090.0	2095.1	2090.0	2115.6	2115.6	2090.0
40°	1894.8	1905.3	1915.4	1935.9	1915.4	1905.3	1910.3	1894.8	1925.8	1915.4	1899.9
42.5°	1740.7	1745.8	1761.3	1771.7	1751.1	1745.8	1751.1	1740.7	1756.2	1745.8	1715.1
45°	1622.6	1622.6	1628.0	1643.1	1622.6	1617.6	1617.6	1607.1	1622.6	1602.1	1571.5
47.5°	1520.0	1525.0	1530.4	1540.5	1525.0	1509.9	1514.9	1494.4	1504.5	1489.0	1448.0
50°	1417.3	1427.4	1432.8	1442.9	1427.4	1417.3	1422.4	1401.9	1401.9	1376.3	1340.3
52.5°	1314.7	1319.8	1314.7	1324.8	1314.7	1299.2	1304.3	1283.8	1283.8	1253.1	1217.1
55°	1145.1	1150.2	1155.5	1165.6	1155.5	1140.1	1150.2	1135.0	1135.0	1114.2	1073.1
57.5°	975.5	980.9	985.9	991.0	991.0	980.9	985.9	975.5	970.5	955.0	924.4
60°	867.8	867.8	867.8	872.9	867.8	862.8	862.8	852.4	852.4	831.8	801.2
62.5°	785.7	790.8	790.8	795.8	790.8	785.7	780.7	770.3	765.2	744.7	718.8
65°	708.7	708.7	703.6	713.7	708.7	703.6	703.6	693.2	683.1	662.6	636.7
67.5°	616.1	621.2	616.1	621.2	621.2	616.1	611.1	600.7	595.6	580.1	549.5
70°	518.6	518.6	518.6	523.9	518.6	518.6	523.9	508.4	503.4	482.6	457.0
72.5°	421.0	426.3	426.3	421.0	426.3	415.9	415.9	415.9	410.9	390.3	364.4
75°	323.4	328.8	328.8	333.8	328.8	323.4	323.4	318.3	313.3	297.8	277.3
77.5°	241.3	241.3	246.3	246.3	246.3	241.3	241.3	231.2	231.2	220.7	200.2
80°	174.6	174.6	169.6	174.6	174.6	169.6	169.6	164.2	164.2	154.1	138.6
82.5°	113.1	118.1	118.1	118.1	118.1	113.1	113.1	113.1	107.7	102.6	92.5
85°	72.0	72.0	72.0	72.0	77.1	72.0	77.1	72.0	72.0	61.6	56.5
87.5°	30.9	30.9	30.9	36.0	36.0	30.9	30.9	30.9	30.9	30.9	25.6
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: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3332.7	3337.8	3322.3	3342.8	3327.7	3332.7	3337.8	3332.7	3312.2	3312.2	3368.7
5°	3312.2	3322.3	3307.1	3332.7	3322.3	3322.3	3332.7	3327.7	3307.1	3312.2	3363.3
7.5°	3291.7	3307.1	3296.7	3322.3	3307.1	3307.1	3317.2	3317.2	3296.7	3301.8	3348.2
10°	3260.7	3281.2	3276.2	3301.8	3286.6	3286.6	3301.8	3301.8	3281.2	3286.6	3332.7
12.5°	3235.1	3255.6	3250.6	3276.2	3266.1	3271.1	3276.2	3286.6	3260.7	3271.1	3312.2
15°	3194.1	3214.6	3214.6	3240.2	3230.1	3240.2	3250.6	3266.1	3245.2	3245.2	3286.6
17.5°	3148.0	3173.5	3173.5	3194.1	3194.1	3199.1	3219.6	3235.1	3214.6	3219.6	3255.6
20°	3096.5	3127.4	3127.4	3153.0	3148.0	3158.1	3173.5	3189.0	3168.5	3168.5	3209.5
22.5°	3045.0	3070.9	3076.0	3091.4	3091.4	3096.5	3112.0	3122.1	3096.5	3096.5	3137.5
25°	2973.3	2998.9	3004.0	3014.4	3004.0	3004.0	3014.4	3024.5	2998.9	2998.9	3034.9
27.5°	2875.7	2901.3	2901.3	2896.3	2885.8	2891.2	2885.8	2891.2	2865.3	2860.3	2896.3
30°	2731.7	2747.2	2747.2	2742.1	2726.7	2726.7	2711.2	2716.6	2680.6	2680.6	2711.2
32.5°	2536.9	2552.0	2541.9	2531.5	2511.0	2500.9	2490.5	2485.4	2449.4	2449.4	2485.4
35°	2305.7	2315.8	2300.7	2280.1	2254.2	2238.8	2223.6	2203.1	2177.2	2182.5	2203.1
37.5°	2069.5	2069.5	2049.0	2007.9	1987.4	1961.5	1935.9	1935.9	1894.8	1889.8	1905.3
40°	1869.3	1848.7	1812.7	1756.2	1720.2	1694.6	1658.6	1638.1	1607.1	1607.1	1633.0
42.5°	1689.6	1648.5	1602.1	1525.0	1489.0	1458.4	1412.3	1391.8	1355.8	1350.4	1365.9
45°	1530.4	1489.0	1422.4	1340.3	1294.2	1258.2	1191.2	1165.6	1135.0	1129.6	1140.1
47.5°	1401.9	1355.8	1273.6	1165.6	1119.5	1073.1	1006.5	970.5	944.9	929.4	944.9
50°	1288.8	1227.2	1140.1	1027.0	965.4	924.4	842.3	806.3	770.3	760.1	765.2
52.5°	1165.6	1104.1	1011.5	893.4	836.9	775.3	698.2	647.1	616.1	600.7	616.1
55°	1032.1	970.5	878.3	760.1	698.2	642.0	559.6	518.6	482.6	467.4	482.6
57.5°	888.4	831.8	749.7	631.6	575.1	523.9	446.9	405.8	369.8	359.4	369.8
60°	765.2	718.8	636.7	523.9	477.5	421.0	354.3	313.3	282.3	277.3	282.3
62.5°	683.1	631.6	554.6	446.9	400.4	354.3	292.8	251.7	225.8	220.7	225.8
65°	600.7	544.5	472.4	379.9	333.8	297.8	236.2	200.2	174.6	169.6	174.6
67.5°	508.4	457.0	395.4	313.3	277.3	241.3	190.1	154.1	133.6	128.5	133.6
70°	421.0	374.9	313.3	251.7	215.7	190.1	143.7	118.1	97.6	92.5	97.6
72.5°	333.8	292.8	241.3	190.1	169.6	143.7	113.1	87.2	72.0	66.6	72.0
75°	256.8	225.8	184.7	138.6	123.2	107.7	77.1	61.6	51.5	46.1	51.5
77.5°	179.7	159.2	128.5	102.6	87.2	77.1	56.5	41.1	36.0	30.9	36.0
80°	123.2	107.7	87.2	66.6	56.5	46.1	36.0	25.6	20.5	20.5	20.5
82.5°	82.1	66.6	51.5	41.1	36.0	30.9	20.5	15.5	15.5	10.4	10.4
85°	46.1	41.1	30.9	25.6	20.5	15.5	10.4	10.4	5.1	5.1	5.1
87.5°	20.5	15.5	10.4	10.4	5.1	5.1	5.1	5.1	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: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3353.2	3337.8	3358.3	3337.8	3327.7	3337.8	3327.7	3358.3	3332.7	3312.2	3332.7
5°	3348.2	3327.7	3348.2	3332.7	3317.2	3322.3	3312.2	3342.8	3312.2	3296.7	3307.1
7.5°	3337.8	3322.3	3332.7	3317.2	3301.8	3307.1	3296.7	3322.3	3291.7	3276.2	3286.6
10°	3322.3	3307.1	3312.2	3301.8	3286.6	3286.6	3276.2	3296.7	3260.7	3240.2	3250.6
12.5°	3301.8	3281.2	3291.7	3276.2	3255.6	3255.6	3245.2	3260.7	3224.7	3204.2	3209.5
15°	3276.2	3255.6	3255.6	3240.2	3219.6	3219.6	3199.1	3214.6	3173.5	3153.0	3153.0
17.5°	3245.2	3219.6	3219.6	3204.2	3178.6	3173.5	3158.1	3173.5	3127.4	3106.6	3106.6
20°	3199.1	3178.6	3173.5	3163.1	3137.5	3132.5	3112.0	3117.0	3081.0	3065.5	3060.5
22.5°	3137.5	3117.0	3122.1	3106.6	3086.1	3081.0	3060.5	3076.0	3040.0	3024.5	3029.8
25°	3029.8	3019.4	3029.8	3024.5	3009.3	3009.3	2998.9	3009.3	2978.4	2967.9	2973.3
27.5°	2906.4	2901.3	2906.4	2906.4	2896.3	2896.3	2896.3	2911.7	2880.8	2875.7	2875.7
30°	2726.7	2726.7	2731.7	2737.1	2737.1	2747.2	2742.1	2762.7	2742.1	2731.7	2742.1
32.5°	2490.5	2511.0	2526.5	2526.5	2526.5	2536.9	2547.0	2562.5	2541.9	2547.0	2547.0
35°	2223.6	2238.8	2249.2	2274.8	2259.6	2295.3	2305.7	2326.2	2321.2	2331.3	2326.2
37.5°	1925.8	1946.3	1966.8	2002.8	1997.5	2038.5	2059.1	2100.1	2090.0	2110.5	2120.6
40°	1648.5	1679.1	1710.1	1735.7	1756.2	1797.3	1838.3	1889.8	1905.3	1920.4	1925.8
42.5°	1381.3	1412.3	1463.4	1499.4	1530.4	1597.0	1653.6	1715.1	1730.6	1761.3	1771.7
45°	1165.6	1191.2	1253.1	1299.2	1324.8	1422.4	1489.0	1566.1	1592.0	1628.0	1643.1
47.5°	965.4	1011.5	1073.1	1129.6	1165.6	1268.3	1355.8	1437.9	1473.9	1514.9	1535.5
50°	790.8	842.3	924.4	975.5	1027.0	1140.1	1237.6	1324.8	1360.8	1406.9	1427.4
52.5°	647.1	703.6	780.7	836.9	893.4	1011.5	1114.2	1196.6	1242.7	1273.6	1304.3
55°	508.4	570.0	647.1	708.7	754.8	883.3	970.5	1052.6	1083.5	1109.1	1124.6
57.5°	395.4	441.5	518.6	570.0	626.6	739.3	826.8	888.4	913.9	944.9	955.0
60°	308.2	354.3	426.3	477.5	529.0	636.7	724.1	785.7	811.3	836.9	852.4
62.5°	246.3	292.8	359.4	405.8	451.9	549.5	626.6	688.1	718.8	744.7	760.1
65°	195.2	236.2	292.8	338.9	374.9	462.0	539.1	595.6	626.6	652.1	667.6
67.5°	154.1	190.1	241.3	272.2	308.2	379.9	446.9	498.0	523.9	554.6	570.0
70°	118.1	143.7	190.1	215.7	241.3	302.9	354.3	405.8	431.4	451.9	462.0
72.5°	87.2	107.7	143.7	164.2	179.7	231.2	272.2	308.2	328.8	349.3	359.4
75°	61.6	77.1	102.6	118.1	128.5	164.2	200.2	225.8	241.3	256.8	272.2
77.5°	41.1	51.5	66.6	77.1	87.2	113.1	133.6	154.1	169.6	184.7	190.1
80°	25.6	36.0	46.1	51.5	56.5	72.0	92.5	102.6	113.1	123.2	128.5
82.5°	15.5	20.5	25.6	30.9	36.0	46.1	56.5	66.6	72.0	82.1	87.2
85°	5.1	10.4	10.4	15.5	15.5	25.6	30.9	36.0	41.1	46.1	51.5
87.5°	0.0	0.0	5.1	5.1	5.1	5.1	10.4	10.4	10.4	10.4	10.4
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: P880607

CATALOG NUMBER: LD4C75D010 EU4759027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3353.2	3337.8	3327.7	3322.3	3358.3	3312.2	3332.7	3337.8
5°	3332.7	3317.2	3307.1	3301.8	3332.7	3291.7	3307.1	3317.2
7.5°	3301.8	3291.7	3276.2	3271.1	3301.8	3255.6	3276.2	3281.2
10°	3266.1	3250.6	3240.2	3235.1	3260.7	3214.6	3235.1	3235.1
12.5°	3219.6	3209.5	3189.0	3189.0	3209.5	3168.5	3183.6	3183.6
15°	3158.1	3148.0	3127.4	3127.4	3148.0	3106.6	3122.1	3122.1
17.5°	3106.6	3096.5	3081.0	3076.0	3096.5	3055.4	3070.9	3065.5
20°	3065.5	3055.4	3034.9	3034.9	3050.4	3009.3	3024.5	3024.5
22.5°	3029.8	3024.5	3004.0	3004.0	3024.5	2983.4	2993.8	2983.4
25°	2973.3	2967.9	2947.4	2952.8	2962.9	2921.8	2937.3	2926.9
27.5°	2880.8	2880.8	2860.3	2855.2	2870.4	2834.7	2844.8	2839.7
30°	2737.1	2742.1	2716.6	2716.6	2721.6	2690.7	2706.1	2701.1
32.5°	2541.9	2547.0	2526.5	2521.4	2536.9	2511.0	2521.4	2521.4
35°	2326.2	2331.3	2315.8	2315.8	2331.3	2315.8	2315.8	2310.8
37.5°	2110.5	2120.6	2110.5	2115.6	2126.0	2110.5	2120.6	2115.6
40°	1935.9	1946.3	1930.8	1940.9	1951.4	1935.9	1951.4	1940.9
42.5°	1776.7	1792.2	1781.8	1792.2	1802.3	1792.2	1802.3	1787.1
45°	1658.6	1669.0	1663.7	1669.0	1679.1	1674.1	1679.1	1674.1
47.5°	1545.6	1566.1	1556.0	1566.1	1581.6	1571.5	1581.6	1566.1
50°	1442.9	1458.4	1453.3	1463.4	1468.5	1463.4	1473.9	1458.4
52.5°	1309.3	1324.8	1319.8	1319.8	1329.9	1319.8	1329.9	1319.8
55°	1135.0	1140.1	1140.1	1145.1	1140.1	1135.0	1140.1	1129.6
57.5°	965.4	975.5	960.4	975.5	970.5	965.4	965.4	955.0
60°	857.4	872.9	862.8	872.9	867.8	867.8	867.8	862.8
62.5°	770.3	780.7	770.3	775.3	775.3	775.3	770.3	765.2
65°	672.7	688.1	677.7	683.1	677.7	672.7	677.7	672.7
67.5°	575.1	580.1	580.1	575.1	575.1	575.1	575.1	565.0
70°	467.4	472.4	467.4	477.5	472.4	467.4	472.4	462.0
72.5°	364.4	369.8	364.4	369.8	364.4	364.4	364.4	364.4
75°	272.2	277.3	277.3	277.3	277.3	277.3	267.2	277.3
77.5°	195.2	195.2	195.2	200.2	195.2	195.2	195.2	195.2
80°	133.6	133.6	133.6	138.6	133.6	138.6	133.6	138.6
82.5°	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
85°	46.1	51.5	51.5	46.1	46.1	46.1	46.1	46.1
87.5°	10.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)