

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: P880610

Luminaire Tested: **LD4C75D010 EU4759040 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: P880610
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 EU4759040 4LBDWNH
Description: 4 INCH 7500 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

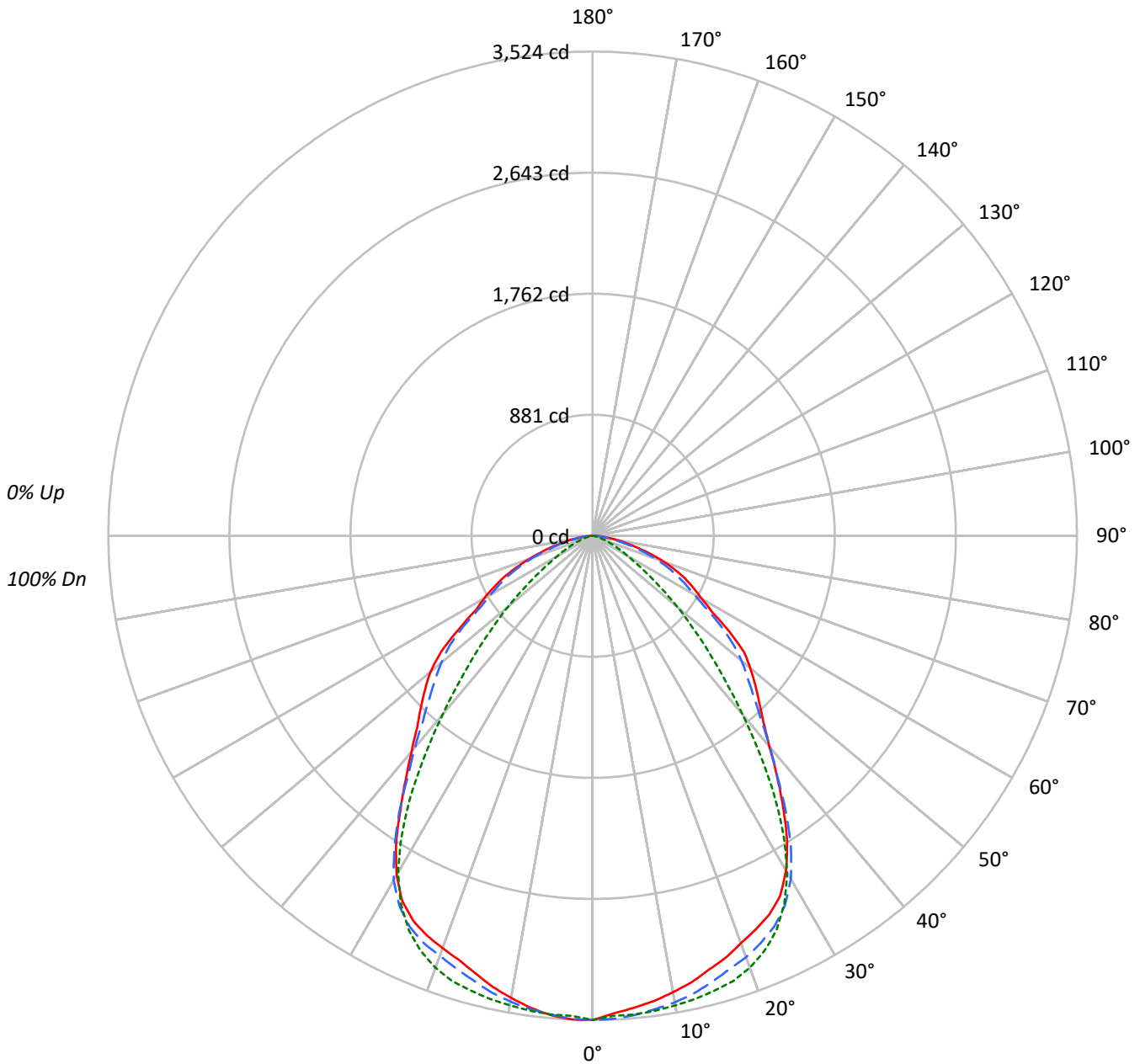
Lumens per Lamp: N/A
Luminaire Lumens: 7172.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (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	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°	432936	432936	432936
5°	425254	431260	431913
10°	420690	432878	426092
15°	415801	435782	419247
20°	412504	437358	417472
25°	412287	429190	418888
30°	399163	401475	404553
35°	362643	345591	365897
40°	320844	272122	328638
45°	297636	207221	307087
50°	286001	153398	294296
55°	258954	105702	255463
60°	225141	71918	223814
65°	217499	52035	206452
70°	196662	35094	175218
75°	162052	23116	138936
80°	130460	15352	103576
85°	107129	7471	68647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	4.6
10°-20°	951.2	13.3
20°-30°	1437.0	20.0
30°-40°	1503.9	21.0
40°-50°	1218.0	17.0
50°-60°	885.9	12.4
60°-70°	546.4	7.6
70°-80°	246.9	3.4
80°-90°	50.2	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°	2720.8	37.9
0°-40°	4224.7	58.9
0°-60°	6328.6	88.2
0°-90°	7172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7172.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3524	3524	3524	3524	3524	
5°	3448	3502	3497	3497	3502	327
15°	3269	3361	3426	3351	3296	924
25°	3042	3134	3166	3144	3090	1394
35°	2418	2451	2304	2451	2440	1507
45°	1713	1659	1193	1681	1768	1332
55°	1209	1133	494	1144	1193	1079
65°	748	672	179	662	710	732
75°	341	293	49	255	293	371
85°	76	60	5	43	49	87
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°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3480.6	3480.6	3513.3	3551.0	3518.6	3486.0	3507.6	3497.0	3535.0	3535.0	3518.6
5°	3448.3	3459.0	3486.0	3518.6	3491.6	3459.0	3486.0	3475.3	3513.3	3513.3	3502.3
7.5°	3415.6	3421.0	3453.6	3491.6	3464.3	3432.0	3453.6	3448.3	3480.6	3486.0	3475.3
10°	3372.3	3377.6	3410.3	3448.3	3421.0	3393.9	3415.6	3410.3	3453.6	3453.6	3448.3
12.5°	3328.9	3334.3	3366.9	3399.3	3372.3	3345.3	3366.9	3366.9	3410.3	3415.6	3410.3
15°	3269.2	3279.9	3307.3	3339.6	3323.6	3290.9	3312.6	3312.6	3350.6	3361.3	3361.3
17.5°	3220.6	3225.9	3252.9	3285.6	3263.9	3236.6	3258.2	3258.2	3296.3	3307.3	3307.3
20°	3155.2	3166.2	3193.2	3225.9	3209.6	3187.9	3204.2	3204.2	3247.6	3258.2	3263.9
22.5°	3101.2	3111.9	3133.5	3177.2	3149.9	3133.5	3155.2	3149.9	3198.9	3204.2	3204.2
25°	3041.5	3052.5	3079.5	3106.5	3090.2	3074.2	3090.2	3090.2	3128.2	3133.5	3133.5
27.5°	2954.8	2960.2	2987.2	3014.5	2998.2	2976.5	2998.2	2992.8	3030.5	3036.2	3030.5
30°	2813.8	2824.8	2835.5	2873.5	2857.1	2840.8	2862.5	2851.8	2889.8	2889.8	2884.1
32.5°	2634.7	2634.7	2656.7	2683.7	2662.1	2651.1	2667.4	2672.7	2700.1	2700.1	2683.7
35°	2418.0	2429.0	2445.0	2461.4	2445.0	2434.3	2450.7	2445.0	2477.7	2466.7	2450.7
37.5°	2201.3	2206.6	2223.0	2244.6	2223.0	2206.6	2211.9	2206.6	2233.6	2233.6	2206.6
40°	2000.6	2011.6	2022.2	2043.9	2022.2	2011.6	2016.9	2000.6	2033.2	2022.2	2005.9
42.5°	1837.8	1843.2	1859.5	1870.5	1848.8	1843.2	1848.8	1837.8	1854.2	1843.2	1810.8
45°	1713.1	1713.1	1718.8	1734.8	1713.1	1707.8	1707.8	1696.8	1713.1	1691.5	1659.1
47.5°	1604.8	1610.1	1615.8	1626.5	1610.1	1594.1	1599.4	1577.8	1588.4	1572.1	1528.8
50°	1496.4	1507.1	1512.8	1523.4	1507.1	1496.4	1501.8	1480.1	1480.1	1453.1	1415.1
52.5°	1388.1	1393.4	1388.1	1398.7	1388.1	1371.7	1377.1	1355.4	1355.4	1323.0	1285.0
55°	1209.0	1214.3	1220.0	1230.7	1220.0	1203.7	1214.3	1198.3	1198.3	1176.3	1133.0
57.5°	1030.0	1035.6	1041.0	1046.3	1046.3	1035.6	1041.0	1030.0	1024.6	1008.3	975.9
60°	916.3	916.3	916.3	921.6	916.3	910.9	910.9	899.9	899.9	878.2	845.9
62.5°	829.6	834.9	834.9	840.2	834.9	829.6	824.2	813.2	807.9	786.2	758.9
65°	748.2	748.2	742.9	753.5	748.2	742.9	742.9	731.9	721.2	699.5	672.2
67.5°	650.5	655.8	650.5	655.8	655.8	650.5	645.2	634.2	628.8	612.5	580.2
70°	547.5	547.5	547.5	553.2	547.5	547.5	553.2	536.8	531.5	509.5	482.5
72.5°	444.5	450.1	450.1	444.5	450.1	439.1	439.1	439.1	433.8	412.1	384.8
75°	341.4	347.1	347.1	352.4	347.1	341.4	341.4	336.1	330.8	314.4	292.7
77.5°	254.7	254.7	260.1	260.1	260.1	254.7	254.7	244.1	244.1	233.1	211.4
80°	184.4	184.4	179.0	184.4	184.4	179.0	179.0	173.4	173.4	162.7	146.4
82.5°	119.4	124.7	124.7	124.7	124.7	119.4	119.4	119.4	113.7	108.4	97.7
85°	76.0	76.0	76.0	76.0	81.4	76.0	81.4	76.0	76.0	65.0	59.7
87.5°	32.7	32.7	32.7	38.0	38.0	32.7	32.7	32.7	32.7	32.7	27.0
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°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3518.6	3524.0	3507.6	3529.3	3513.3	3518.6	3524.0	3518.6	3497.0	3497.0	3556.7
5°	3497.0	3507.6	3491.6	3518.6	3507.6	3507.6	3518.6	3513.3	3491.6	3497.0	3551.0
7.5°	3475.3	3491.6	3480.6	3507.6	3491.6	3491.6	3502.3	3502.3	3480.6	3486.0	3535.0
10°	3442.6	3464.3	3459.0	3486.0	3470.0	3470.0	3486.0	3486.0	3464.3	3470.0	3518.6
12.5°	3415.6	3437.3	3432.0	3459.0	3448.3	3453.6	3459.0	3470.0	3442.6	3453.6	3497.0
15°	3372.3	3393.9	3393.9	3421.0	3410.3	3421.0	3432.0	3448.3	3426.3	3426.3	3470.0
17.5°	3323.6	3350.6	3350.6	3372.3	3372.3	3377.6	3399.3	3415.6	3393.9	3399.3	3437.3
20°	3269.2	3301.9	3301.9	3328.9	3323.6	3334.3	3350.6	3366.9	3345.3	3345.3	3388.6
22.5°	3214.9	3242.2	3247.6	3263.9	3263.9	3269.2	3285.6	3296.3	3269.2	3269.2	3312.6
25°	3139.2	3166.2	3171.6	3182.6	3171.6	3171.6	3182.6	3193.2	3166.2	3166.2	3204.2
27.5°	3036.2	3063.2	3063.2	3057.9	3046.8	3052.5	3046.8	3052.5	3025.2	3019.8	3057.9
30°	2884.1	2900.5	2900.5	2895.1	2878.8	2878.8	2862.5	2868.1	2830.1	2830.1	2862.5
32.5°	2678.4	2694.4	2683.7	2672.7	2651.1	2640.4	2629.4	2624.1	2586.1	2586.1	2624.1
35°	2434.3	2445.0	2429.0	2407.3	2380.0	2363.7	2347.7	2326.0	2298.6	2304.3	2326.0
37.5°	2184.9	2184.9	2163.3	2119.9	2098.3	2070.9	2043.9	2043.9	2000.6	1995.2	2011.6
40°	1973.5	1951.9	1913.9	1854.2	1816.2	1789.2	1751.2	1729.5	1696.8	1696.8	1724.1
42.5°	1783.8	1740.5	1691.5	1610.1	1572.1	1539.8	1491.1	1469.4	1431.4	1425.7	1442.1
45°	1615.8	1572.1	1501.8	1415.1	1366.4	1328.4	1257.7	1230.7	1198.3	1192.7	1203.7
47.5°	1480.1	1431.4	1344.7	1230.7	1182.0	1133.0	1062.6	1024.6	997.6	981.3	997.6
50°	1360.7	1295.7	1203.7	1084.3	1019.3	975.9	889.2	851.2	813.2	802.6	807.9
52.5°	1230.7	1165.7	1068.0	943.3	883.6	818.6	737.2	683.2	650.5	634.2	650.5
55°	1089.6	1024.6	927.3	802.6	737.2	677.9	590.8	547.5	509.5	493.5	509.5
57.5°	937.9	878.2	791.6	666.9	607.2	553.2	471.8	428.5	390.4	379.4	390.4
60°	807.9	758.9	672.2	553.2	504.1	444.5	374.1	330.8	298.1	292.7	298.1
62.5°	721.2	666.9	585.5	471.8	422.8	374.1	309.1	265.7	238.4	233.1	238.4
65°	634.2	574.8	498.8	401.1	352.4	314.4	249.4	211.4	184.4	179.0	184.4
67.5°	536.8	482.5	417.4	330.8	292.7	254.7	200.7	162.7	141.0	135.7	141.0
70°	444.5	395.8	330.8	265.7	227.7	200.7	151.7	124.7	103.0	97.7	103.0
72.5°	352.4	309.1	254.7	200.7	179.0	151.7	119.4	92.0	76.0	70.4	76.0
75°	271.1	238.4	195.1	146.4	130.0	113.7	81.4	65.0	54.3	48.7	54.3
77.5°	189.7	168.0	135.7	108.4	92.0	81.4	59.7	43.3	38.0	32.7	38.0
80°	130.0	113.7	92.0	70.4	59.7	48.7	38.0	27.0	21.7	21.7	21.7
82.5°	86.7	70.4	54.3	43.3	38.0	32.7	21.7	16.3	16.3	11.0	11.0
85°	48.7	43.3	32.7	27.0	21.7	16.3	11.0	11.0	5.3	5.3	5.3
87.5°	21.7	16.3	11.0	11.0	5.3	5.3	5.3	5.3	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°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3540.3	3524.0	3545.7	3524.0	3513.3	3524.0	3513.3	3545.7	3518.6	3497.0	3518.6
5°	3535.0	3513.3	3535.0	3518.6	3502.3	3507.6	3497.0	3529.3	3497.0	3480.6	3491.6
7.5°	3524.0	3507.6	3518.6	3502.3	3486.0	3491.6	3480.6	3507.6	3475.3	3459.0	3470.0
10°	3507.6	3491.6	3497.0	3486.0	3470.0	3470.0	3459.0	3480.6	3442.6	3421.0	3432.0
12.5°	3486.0	3464.3	3475.3	3459.0	3437.3	3437.3	3426.3	3442.6	3404.6	3382.9	3388.6
15°	3459.0	3437.3	3437.3	3421.0	3399.3	3399.3	3377.6	3393.9	3350.6	3328.9	3328.9
17.5°	3426.3	3399.3	3399.3	3382.9	3355.9	3350.6	3334.3	3350.6	3301.9	3279.9	3279.9
20°	3377.6	3355.9	3350.6	3339.6	3312.6	3307.3	3285.6	3290.9	3252.9	3236.6	3231.2
22.5°	3312.6	3290.9	3296.3	3279.9	3258.2	3252.9	3231.2	3247.6	3209.6	3193.2	3198.9
25°	3198.9	3187.9	3198.9	3193.2	3177.2	3177.2	3166.2	3177.2	3144.5	3133.5	3139.2
27.5°	3068.5	3063.2	3068.5	3068.5	3057.9	3057.9	3057.9	3074.2	3041.5	3036.2	3036.2
30°	2878.8	2878.8	2884.1	2889.8	2889.8	2900.5	2895.1	2916.8	2895.1	2884.1	2895.1
32.5°	2629.4	2651.1	2667.4	2667.4	2667.4	2678.4	2689.1	2705.4	2683.7	2689.1	2689.1
35°	2347.7	2363.7	2374.7	2401.7	2385.7	2423.3	2434.3	2456.0	2450.7	2461.4	2456.0
37.5°	2033.2	2054.9	2076.6	2114.6	2108.9	2152.3	2173.9	2217.3	2206.6	2228.3	2239.0
40°	1740.5	1772.8	1805.5	1832.5	1854.2	1897.5	1940.9	1995.2	2011.6	2027.6	2033.2
42.5°	1458.4	1491.1	1545.1	1583.1	1615.8	1686.1	1745.8	1810.8	1827.2	1859.5	1870.5
45°	1230.7	1257.7	1323.0	1371.7	1398.7	1501.8	1572.1	1653.5	1680.8	1718.8	1734.8
47.5°	1019.3	1068.0	1133.0	1192.7	1230.7	1339.0	1431.4	1518.1	1556.1	1599.4	1621.1
50°	834.9	889.2	975.9	1030.0	1084.3	1203.7	1306.7	1398.7	1436.7	1485.4	1507.1
52.5°	683.2	742.9	824.2	883.6	943.3	1068.0	1176.3	1263.4	1312.0	1344.7	1377.1
55°	536.8	601.8	683.2	748.2	796.9	932.6	1024.6	1111.3	1144.0	1171.0	1187.3
57.5°	417.4	466.1	547.5	601.8	661.5	780.6	872.9	937.9	964.9	997.6	1008.3
60°	325.4	374.1	450.1	504.1	558.5	672.2	764.5	829.6	856.6	883.6	899.9
62.5°	260.1	309.1	379.4	428.5	477.1	580.2	661.5	726.5	758.9	786.2	802.6
65°	206.1	249.4	309.1	357.8	395.8	487.8	569.2	628.8	661.5	688.5	704.9
67.5°	162.7	200.7	254.7	287.4	325.4	401.1	471.8	525.8	553.2	585.5	601.8
70°	124.7	151.7	200.7	227.7	254.7	319.8	374.1	428.5	455.5	477.1	487.8
72.5°	92.0	113.7	151.7	173.4	189.7	244.1	287.4	325.4	347.1	368.8	379.4
75°	65.0	81.4	108.4	124.7	135.7	173.4	211.4	238.4	254.7	271.1	287.4
77.5°	43.3	54.3	70.4	81.4	92.0	119.4	141.0	162.7	179.0	195.1	200.7
80°	27.0	38.0	48.7	54.3	59.7	76.0	97.7	108.4	119.4	130.0	135.7
82.5°	16.3	21.7	27.0	32.7	38.0	48.7	59.7	70.4	76.0	86.7	92.0
85°	5.3	11.0	11.0	16.3	16.3	27.0	32.7	38.0	43.3	48.7	54.3
87.5°	0.0	0.0	5.3	5.3	5.3	5.3	11.0	11.0	11.0	11.0	11.0
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: P880610

CATALOG NUMBER: LD4C75D010 EU4759040 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3540.3	3524.0	3513.3	3507.6	3545.7	3497.0	3518.6	3524.0
5°	3518.6	3502.3	3491.6	3486.0	3518.6	3475.3	3491.6	3502.3
7.5°	3486.0	3475.3	3459.0	3453.6	3486.0	3437.3	3459.0	3464.3
10°	3448.3	3432.0	3421.0	3415.6	3442.6	3393.9	3415.6	3415.6
12.5°	3399.3	3388.6	3366.9	3366.9	3388.6	3345.3	3361.3	3361.3
15°	3334.3	3323.6	3301.9	3301.9	3323.6	3279.9	3296.3	3296.3
17.5°	3279.9	3269.2	3252.9	3247.6	3269.2	3225.9	3242.2	3236.6
20°	3236.6	3225.9	3204.2	3204.2	3220.6	3177.2	3193.2	3193.2
22.5°	3198.9	3193.2	3171.6	3171.6	3193.2	3149.9	3160.9	3149.9
25°	3139.2	3133.5	3111.9	3117.5	3128.2	3084.9	3101.2	3090.2
27.5°	3041.5	3041.5	3019.8	3014.5	3030.5	2992.8	3003.5	2998.2
30°	2889.8	2895.1	2868.1	2868.1	2873.5	2840.8	2857.1	2851.8
32.5°	2683.7	2689.1	2667.4	2662.1	2678.4	2651.1	2662.1	2662.1
35°	2456.0	2461.4	2445.0	2445.0	2461.4	2445.0	2445.0	2439.7
37.5°	2228.3	2239.0	2228.3	2233.6	2244.6	2228.3	2239.0	2233.6
40°	2043.9	2054.9	2038.6	2049.2	2060.2	2043.9	2060.2	2049.2
42.5°	1875.9	1892.2	1881.2	1892.2	1902.9	1892.2	1902.9	1886.9
45°	1751.2	1762.2	1756.5	1762.2	1772.8	1767.5	1772.8	1767.5
47.5°	1631.8	1653.5	1642.8	1653.5	1669.8	1659.1	1669.8	1653.5
50°	1523.4	1539.8	1534.4	1545.1	1550.4	1545.1	1556.1	1539.8
52.5°	1382.4	1398.7	1393.4	1393.4	1404.1	1393.4	1404.1	1393.4
55°	1198.3	1203.7	1203.7	1209.0	1203.7	1198.3	1203.7	1192.7
57.5°	1019.3	1030.0	1013.9	1030.0	1024.6	1019.3	1019.3	1008.3
60°	905.3	921.6	910.9	921.6	916.3	916.3	916.3	910.9
62.5°	813.2	824.2	813.2	818.6	818.6	818.6	813.2	807.9
65°	710.2	726.5	715.5	721.2	715.5	710.2	715.5	710.2
67.5°	607.2	612.5	612.5	607.2	607.2	607.2	607.2	596.5
70°	493.5	498.8	493.5	504.1	498.8	493.5	498.8	487.8
72.5°	384.8	390.4	384.8	390.4	384.8	384.8	384.8	384.8
75°	287.4	292.7	292.7	292.7	292.7	292.7	282.1	292.7
77.5°	206.1	206.1	206.1	211.4	206.1	206.1	206.1	206.1
80°	141.0	141.0	141.0	146.4	141.0	146.4	141.0	146.4
82.5°	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
85°	48.7	54.3	54.3	48.7	48.7	48.7	48.7	48.7
87.5°	11.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)