

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: P859398

Luminaire Tested: **LX4C65D010 EX4C659040 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C65D010 EX4C659040 4LBSWNH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

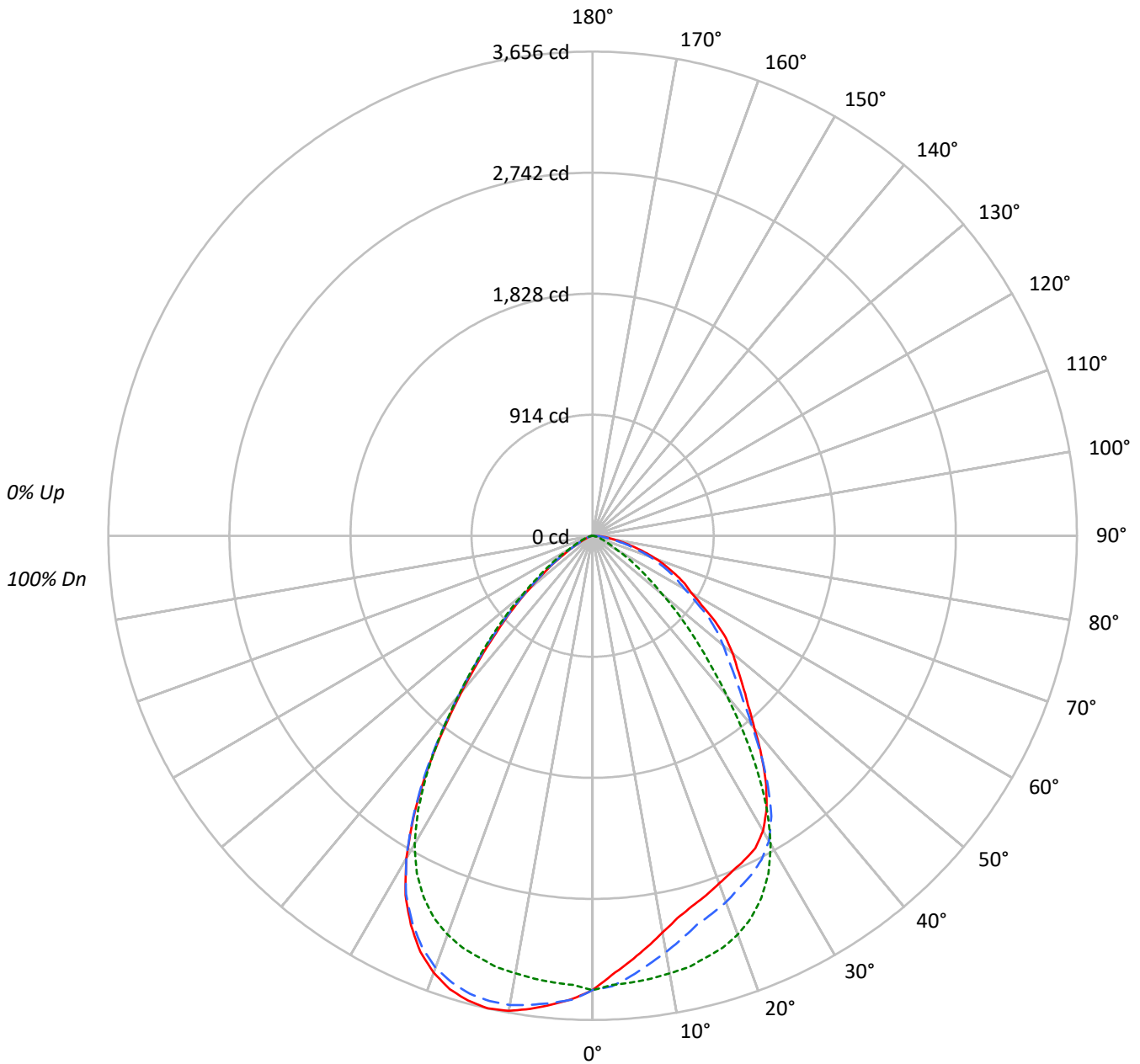
Lumens per Lamp: N/A
Luminaire Lumens: 6013.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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				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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46			46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42			42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	421424	421424	421424
5°	397950	417583	438301
10°	379398	418544	454385
15°	368258	419438	462148
20°	365243	419002	458877
25°	366714	408668	439818
30°	364961	381260	398822
35°	342081	325539	328838
40°	304839	252396	246719
45°	278785	188162	176643
50°	263601	131820	119129
55°	242397	88995	74795
60°	211775	52114	41254
65°	200493	33401	23110
70°	182617	23851	14332
75°	151087	16756	10538
80°	118787	9410	6226
85°	106001	6343	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	5.4
10°-20°	929.8	15.5
20°-30°	1378.4	22.9
30°-40°	1380.2	23.0
40°-50°	964.6	16.0
50°-60°	574.0	9.5
60°-70°	299.6	5.0
70°-80°	133.2	2.2
80°-90°	29.1	0.5
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°	2632.3	43.8
0°-40°	4012.5	66.7
0°-60°	5551.2	92.3
0°-90°	6013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6013.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3430	3430	3430	3430	3430	
5°	3227	3337	3386	3541	3554	303
15°	2895	3041	3298	3581	3634	820
25°	2705	2829	3015	3223	3245	1246
35°	2281	2307	2171	2210	2193	1414
45°	1605	1525	1083	1048	1017	1246
55°	1132	1061	416	362	349	1004
65°	690	632	115	84	80	682
75°	318	278	35	22	22	344
85°	75	58	4	4	0	84
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°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3319.8	3359.6	3319.8	3333.1	3386.1	3337.4	3364.0	3364.0	3350.8	3381.6	3403.8
5°	3226.9	3266.7	3226.9	3244.6	3302.1	3253.4	3284.4	3275.6	3280.1	3306.6	3337.4
7.5°	3134.2	3165.0	3129.7	3151.9	3204.9	3165.0	3191.5	3191.5	3196.0	3235.7	3262.4
10°	3041.3	3067.8	3041.3	3059.0	3116.5	3081.2	3098.8	3103.2	3116.5	3151.9	3191.5
12.5°	2957.3	2979.4	2952.9	2979.4	3028.0	2992.6	3014.8	3019.1	3032.5	3072.3	3116.5
15°	2895.4	2917.6	2891.1	2913.1	2957.3	2930.8	2948.4	2957.3	2966.1	3001.5	3041.3
17.5°	2846.9	2864.6	2842.4	2868.9	2904.2	2873.4	2899.9	2899.9	2913.1	2948.4	2992.6
20°	2793.7	2811.4	2793.7	2815.9	2855.7	2829.2	2851.2	2851.2	2864.6	2904.2	2944.1
22.5°	2745.2	2754.0	2745.2	2762.8	2802.5	2780.5	2793.7	2798.2	2811.4	2846.9	2882.2
25°	2705.3	2723.0	2714.1	2731.8	2758.3	2736.3	2749.5	2754.0	2767.2	2798.2	2829.2
27.5°	2661.1	2670.0	2661.1	2683.3	2705.3	2687.6	2701.0	2696.5	2705.3	2731.8	2758.3
30°	2572.7	2581.6	2581.6	2594.8	2612.6	2603.8	2616.9	2603.8	2612.6	2634.6	2661.1
32.5°	2444.5	2449.0	2453.4	2466.7	2479.9	2466.7	2475.5	2475.5	2475.5	2493.2	2510.9
35°	2280.9	2289.8	2285.4	2294.3	2307.4	2303.1	2303.1	2298.6	2289.8	2298.6	2307.4
37.5°	2095.3	2082.0	2082.0	2095.3	2104.2	2086.5	2095.3	2086.5	2086.5	2090.8	2090.8
40°	1900.8	1887.6	1900.8	1905.3	1909.6	1900.8	1896.4	1887.6	1874.2	1878.7	1869.9
42.5°	1737.3	1728.3	1732.8	1732.8	1737.3	1728.3	1732.8	1715.2	1701.8	1693.0	1679.8
45°	1604.6	1591.4	1604.6	1595.8	1595.8	1591.4	1586.9	1578.1	1560.4	1547.3	1525.1
47.5°	1480.9	1480.9	1485.2	1485.2	1485.2	1476.4	1476.4	1458.7	1441.0	1423.4	1392.5
50°	1379.2	1370.3	1388.0	1388.0	1374.8	1370.3	1374.8	1352.7	1339.5	1317.3	1286.3
52.5°	1268.6	1268.6	1273.1	1273.1	1268.6	1259.8	1264.3	1246.6	1233.3	1211.3	1180.2
55°	1131.7	1122.9	1136.0	1136.0	1131.7	1127.2	1131.7	1118.4	1105.2	1087.5	1060.8
57.5°	977.0	972.5	981.3	985.8	977.0	977.0	981.3	968.1	963.6	946.0	919.4
60°	861.9	857.6	866.4	870.9	861.9	861.9	861.9	844.2	835.4	817.7	800.1
62.5°	782.4	778.0	786.9	782.4	778.0	773.5	778.0	760.4	751.5	733.9	716.2
65°	689.7	694.0	698.5	698.5	694.0	689.7	689.7	680.8	672.0	654.3	632.1
67.5°	601.1	601.1	605.6	610.0	605.6	605.6	605.6	592.3	583.4	570.3	543.8
70°	508.4	503.9	517.3	517.3	508.4	512.7	508.4	503.9	495.1	477.4	455.4
72.5°	411.0	411.0	415.5	415.5	411.0	411.0	411.0	406.7	393.4	384.5	362.5
75°	318.3	318.3	322.7	327.2	318.3	318.3	322.7	313.8	305.0	291.8	278.5
77.5°	238.8	234.3	238.8	238.8	234.3	234.3	234.3	229.9	225.4	212.1	198.9
80°	167.9	163.6	167.9	167.9	167.9	163.6	163.6	159.1	159.1	150.2	137.1
82.5°	114.9	110.6	114.9	114.9	114.9	110.6	110.6	110.6	106.0	101.7	92.9
85°	75.2	70.7	70.7	75.2	70.7	70.7	70.7	70.7	66.4	61.9	57.5
87.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	31.0	31.0	31.0	26.5
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°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3386.1	3377.3	3403.8	3395.0	3399.3	3377.3	3412.7	3395.0	3417.0	3395.0	3439.2
5°	3328.6	3319.8	3359.6	3355.1	3359.6	3342.0	3381.6	3377.3	3403.8	3386.1	3434.7
7.5°	3266.7	3257.9	3302.1	3306.6	3315.4	3297.8	3350.8	3350.8	3377.3	3372.8	3425.8
10°	3196.0	3200.4	3244.6	3253.4	3271.3	3262.4	3310.9	3324.3	3359.6	3355.1	3421.5
12.5°	3129.7	3129.7	3187.2	3204.9	3218.1	3213.7	3271.3	3288.9	3328.6	3337.4	3399.3
15°	3063.5	3067.8	3120.8	3147.4	3165.0	3160.7	3222.6	3244.6	3293.3	3297.8	3372.8
17.5°	3010.3	3006.0	3063.5	3085.5	3112.0	3107.7	3173.9	3200.4	3249.1	3262.4	3333.1
20°	2966.1	2961.8	3014.8	3041.3	3059.0	3054.6	3120.8	3151.9	3196.0	3204.9	3275.6
22.5°	2913.1	2904.2	2957.3	2979.4	2997.1	2992.6	3050.1	3072.3	3116.5	3125.3	3191.5
25°	2851.2	2842.4	2891.1	2904.2	2917.6	2908.7	2957.3	2970.6	3006.0	3014.8	3081.2
27.5°	2780.5	2758.3	2798.2	2798.2	2807.0	2793.7	2829.2	2842.4	2873.4	2873.4	2935.3
30°	2670.0	2639.1	2661.1	2656.8	2661.1	2643.4	2665.6	2670.0	2692.1	2687.6	2731.8
32.5°	2515.2	2471.0	2484.4	2471.0	2457.9	2431.3	2457.9	2449.0	2466.7	2449.0	2488.7
35°	2303.1	2258.9	2254.4	2236.7	2223.6	2201.4	2201.4	2179.4	2183.7	2170.6	2197.1
37.5°	2073.2	2015.8	2007.0	1971.6	1949.4	1922.9	1922.9	1905.3	1883.1	1874.2	1896.4
40°	1847.7	1785.9	1763.9	1706.3	1684.1	1657.6	1640.0	1618.0	1609.1	1573.8	1591.4
42.5°	1653.3	1586.9	1538.4	1476.4	1454.4	1414.5	1388.0	1361.5	1348.3	1308.5	1326.1
45°	1489.7	1410.2	1357.2	1277.4	1246.6	1202.4	1162.6	1131.7	1100.7	1083.0	1074.2
47.5°	1352.7	1268.6	1197.9	1109.5	1060.8	1021.2	968.1	937.1	897.4	875.3	861.9
50°	1237.8	1144.9	1065.3	963.6	915.1	870.9	808.9	760.4	725.0	689.7	680.8
52.5°	1136.0	1038.8	950.5	835.4	778.0	725.0	658.7	605.6	574.6	534.9	530.4
55°	1016.7	932.8	835.4	716.2	658.7	605.6	534.9	481.9	442.0	415.5	406.7
57.5°	888.6	808.9	716.2	596.8	539.3	481.9	415.5	366.8	331.5	309.5	305.0
60°	769.2	694.0	605.6	486.2	428.7	380.2	309.5	260.8	229.9	212.1	203.3
62.5°	680.8	610.0	526.1	415.5	362.5	313.8	247.6	203.3	176.7	159.1	150.2
65°	596.8	526.1	450.9	349.2	305.0	260.8	198.9	159.1	132.6	114.9	106.0
67.5°	508.4	446.6	375.7	291.8	247.6	212.1	159.1	123.7	101.7	88.4	79.5
70°	419.9	362.5	305.0	234.3	203.3	167.9	123.7	97.2	75.2	66.4	57.5
72.5°	331.5	287.3	238.8	181.3	154.7	132.6	97.2	70.7	57.5	48.7	39.9
75°	247.6	216.6	176.7	137.1	114.9	97.2	70.7	53.0	44.2	35.3	31.0
77.5°	176.7	150.2	123.7	92.9	84.0	70.7	48.7	39.9	31.0	22.2	17.7
80°	119.4	106.0	84.0	66.4	53.0	48.7	35.3	26.5	17.7	13.3	13.3
82.5°	79.5	66.4	53.0	39.9	35.3	31.0	22.2	17.7	13.3	8.8	8.8
85°	48.7	39.9	31.0	22.2	22.2	17.7	13.3	8.8	4.5	4.5	4.5
87.5°	22.2	17.7	13.3	8.8	8.8	4.5	4.5	4.5	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°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3474.5	3448.0	3430.3	3452.3	3461.2	3448.0	3461.2	3483.4	3505.5	3509.9	3448.0
5°	3479.0	3452.3	3443.5	3470.0	3474.5	3470.0	3483.4	3514.4	3540.9	3549.7	3487.9
7.5°	3479.0	3461.2	3456.8	3487.9	3492.2	3487.9	3509.9	3545.2	3571.7	3589.4	3527.5
10°	3470.0	3461.2	3465.7	3492.2	3501.0	3501.0	3532.0	3571.7	3598.2	3615.9	3554.1
12.5°	3456.8	3456.8	3456.8	3487.9	3496.7	3501.0	3527.5	3580.6	3598.2	3624.8	3562.9
15°	3434.7	3434.7	3434.7	3465.7	3479.0	3479.0	3509.9	3558.6	3580.6	3607.1	3545.2
17.5°	3395.0	3395.0	3399.3	3425.8	3439.2	3439.2	3470.0	3523.2	3536.4	3567.4	3505.5
20°	3337.4	3337.4	3342.0	3368.5	3381.6	3372.8	3412.7	3456.8	3470.0	3496.7	3434.7
22.5°	3253.4	3253.4	3253.4	3280.1	3288.9	3284.4	3324.3	3364.0	3364.0	3399.3	3333.1
25°	3129.7	3138.5	3129.7	3156.2	3165.0	3160.7	3196.0	3231.4	3222.6	3262.4	3196.0
27.5°	2979.4	2974.9	2974.9	2997.1	2997.1	2992.6	3019.1	3059.0	3050.1	3076.7	3014.8
30°	2771.7	2784.8	2762.8	2793.7	2780.5	2771.7	2789.4	2824.7	2811.4	2833.5	2784.8
32.5°	2532.9	2515.2	2515.2	2515.2	2524.1	2502.0	2519.7	2537.4	2524.1	2546.2	2493.2
35°	2219.1	2223.6	2210.2	2214.7	2219.1	2192.6	2210.2	2227.9	2210.2	2223.6	2174.9
37.5°	1905.3	1909.6	1878.7	1896.4	1878.7	1869.9	1887.6	1896.4	1878.7	1891.9	1838.9
40°	1591.4	1582.6	1578.1	1578.1	1582.6	1560.4	1573.8	1586.9	1573.8	1582.6	1533.9
42.5°	1317.3	1313.0	1304.1	1308.5	1295.1	1290.8	1295.1	1308.5	1295.1	1304.1	1268.6
45°	1078.5	1069.7	1056.5	1060.8	1060.8	1038.8	1052.0	1060.8	1047.7	1052.0	1021.2
47.5°	857.6	844.2	844.2	839.9	839.9	831.1	844.2	839.9	826.6	835.4	804.6
50°	667.5	658.7	658.7	658.7	658.7	645.3	649.8	658.7	645.3	645.3	627.6
52.5°	521.6	508.4	499.6	499.6	499.6	495.1	495.1	499.6	486.2	486.2	481.9
55°	393.4	389.0	375.7	375.7	375.7	362.5	366.8	366.8	362.5	362.5	349.2
57.5°	291.8	278.5	269.6	269.6	260.8	260.8	256.5	260.8	252.0	252.0	243.1
60°	194.4	185.6	181.3	176.7	176.7	172.4	176.7	172.4	172.4	167.9	163.6
62.5°	141.4	132.6	123.7	123.7	123.7	119.4	119.4	119.4	119.4	119.4	114.9
65°	101.7	92.9	92.9	88.4	88.4	84.0	84.0	84.0	84.0	84.0	79.5
67.5°	70.7	66.4	61.9	61.9	61.9	61.9	61.9	61.9	57.5	57.5	57.5
70°	53.0	48.7	44.2	44.2	44.2	44.2	44.2	39.9	44.2	44.2	39.9
72.5°	35.3	35.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
75°	26.5	26.5	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
77.5°	17.7	17.7	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
80°	13.3	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
82.5°	8.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
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



TEST NUMBER: P859398

CATALOG NUMBER: LX4C65D010 EX4C659040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3514.4	3509.9	3501.0	3514.4	3479.0	3465.7	3461.2	3501.0
5°	3562.9	3554.1	3554.1	3567.4	3527.5	3518.7	3509.9	3554.1
7.5°	3607.1	3598.2	3598.2	3611.6	3576.2	3567.4	3558.6	3602.7
10°	3633.6	3633.6	3633.6	3642.4	3611.6	3602.7	3598.2	3642.4
12.5°	3646.9	3646.9	3642.4	3660.1	3620.4	3620.4	3611.6	3655.8
15°	3629.3	3629.3	3629.3	3642.4	3607.1	3598.2	3598.2	3633.6
17.5°	3585.1	3585.1	3580.6	3593.9	3554.1	3554.1	3549.7	3589.4
20°	3518.7	3518.7	3509.9	3527.5	3487.9	3474.5	3470.0	3509.9
22.5°	3412.7	3408.1	3403.8	3412.7	3377.3	3368.5	3364.0	3399.3
25°	3275.6	3271.3	3262.4	3271.3	3231.4	3218.1	3218.1	3244.6
27.5°	3081.2	3081.2	3067.8	3081.2	3036.8	3032.5	3028.0	3059.0
30°	2842.4	2824.7	2815.9	2833.5	2789.4	2789.4	2780.5	2811.4
32.5°	2546.2	2528.6	2524.1	2532.9	2493.2	2479.9	2497.5	2515.2
35°	2205.9	2210.2	2192.6	2192.6	2157.2	2161.5	2166.0	2192.6
37.5°	1878.7	1869.9	1865.4	1869.9	1843.4	1834.6	1825.7	1852.2
40°	1573.8	1551.6	1547.3	1547.3	1525.1	1520.7	1525.1	1538.4
42.5°	1286.3	1282.0	1264.3	1273.1	1250.9	1259.8	1255.4	1255.4
45°	1038.8	1043.2	1025.5	1038.8	1021.2	1007.8	1007.8	1016.7
47.5°	822.2	822.2	817.7	817.7	804.6	808.9	800.1	813.4
50°	636.5	636.5	627.6	632.1	623.3	623.3	618.8	623.3
52.5°	486.2	481.9	481.9	477.4	468.6	473.1	477.4	468.6
55°	353.7	358.0	349.2	353.7	344.8	349.2	344.8	349.2
57.5°	243.1	247.6	238.8	247.6	238.8	243.1	238.8	238.8
60°	167.9	167.9	163.6	167.9	163.6	163.6	159.1	167.9
62.5°	114.9	114.9	114.9	114.9	114.9	110.6	114.9	114.9
65°	84.0	79.5	79.5	79.5	79.5	79.5	79.5	79.5
67.5°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
70°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
72.5°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
75°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
77.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
80°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	0.0	4.5	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)