

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252194

Luminaire Tested: **LD6B50D010TE EU6B30508030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B50D010TE EU6B30508030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6804.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

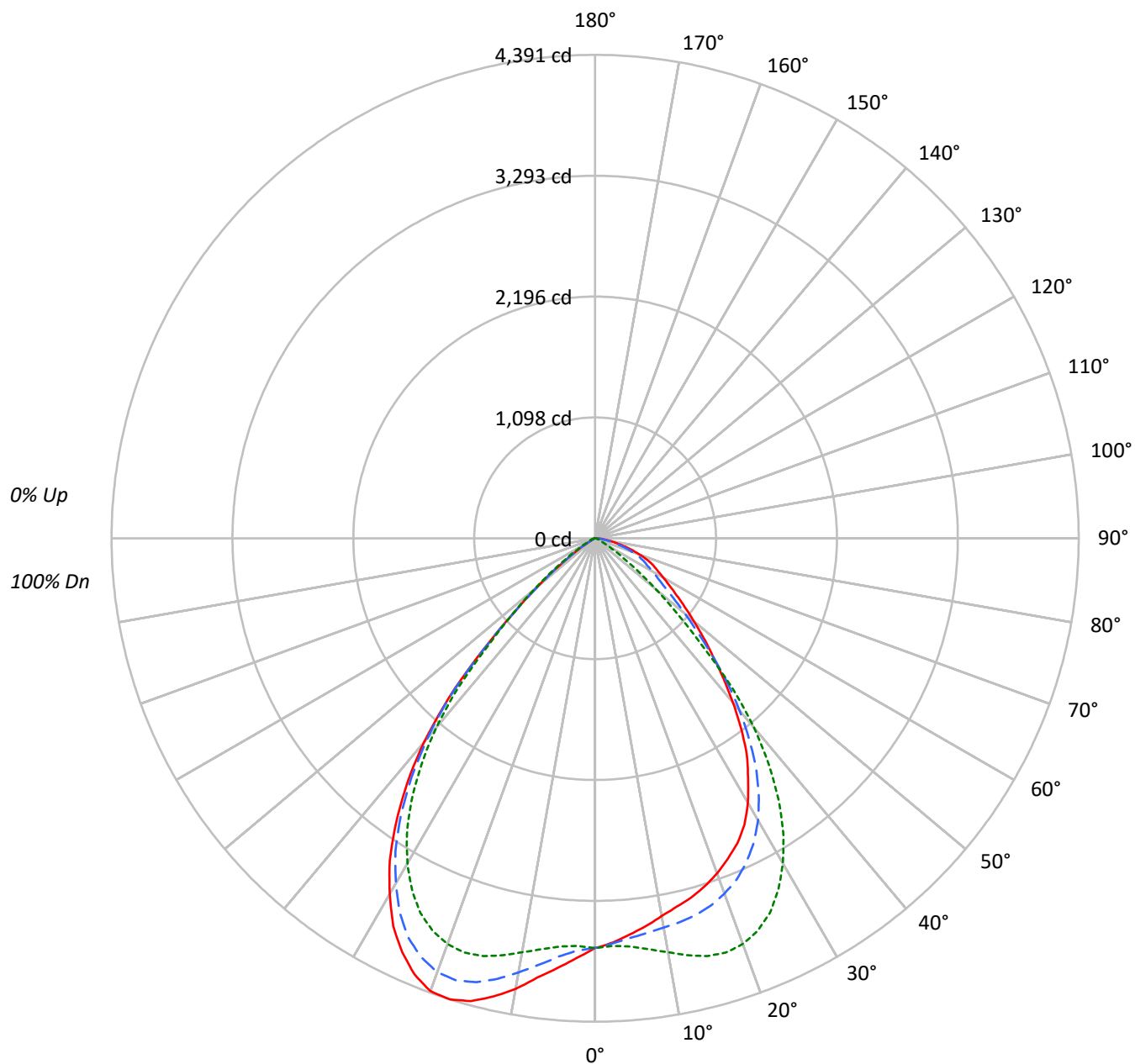
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	89	83	78	95	88	82	78	85	80	76		83	78	75		80
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	61	56	78	68	61	56	66	60	55		64	59	55		63
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	242845	242845	242845
5°	236549	243773	256589
10°	230798	252958	275356
15°	228096	265353	293957
20°	224834	272267	303892
25°	220051	270261	298436
30°	209103	256827	280948
35°	191313	231557	250831
40°	165477	191239	205786
45°	139540	125424	134613
50°	118467	72600	68266
55°	102813	34806	26309
60°	92864	16258	6498
65°	90092	9340	2192
70°	80783	7458	2041
75°	66370	5394	907
80°	49480	2668	0
85°	42593	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	5.3
10°-20°	1095.8	16.1
20°-30°	1674.2	24.6
30°-40°	1751.1	25.7
40°-50°	1135.9	16.7
50°-60°	451.0	6.6
60°-70°	214.0	3.1
70°-80°	101.8	1.5
80°-90°	20.8	0.3
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°	3129.5	46.0
0°-40°	4880.6	71.7
0°-60°	6467.5	95.1
0°-90°	6804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3722	3722	3722	3722	3722	
5°	3612	3644	3722	3815	3918	341
15°	3377	3541	3929	4174	4352	952
25°	3057	3249	3754	4007	4146	1400
35°	2402	2548	2907	3078	3149	1485
45°	1512	1498	1359	1441	1459	1177
55°	904	769	306	238	231	819
65°	584	484	60	14	14	570
75°	263	214	21	7	4	284
85°	57	36	0	0	0	66
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°	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3
2.5°	3676.1	3683.2	3644.0	3633.4	3661.8	3672.5	3676.1	3665.4	3668.9	3683.2	3683.2
5°	3612.0	3619.1	3583.5	3572.9	3601.3	3608.4	3619.1	3615.6	3626.2	3647.6	3644.0
7.5°	3551.5	3562.2	3523.0	3508.8	3544.4	3562.2	3569.3	3569.3	3583.5	3612.0	3615.6
10°	3483.9	3498.1	3462.5	3455.4	3494.6	3512.4	3515.9	3523.0	3544.4	3583.5	3590.7
12.5°	3427.0	3441.2	3416.3	3405.6	3448.3	3466.1	3473.2	3487.5	3512.4	3562.2	3569.3
15°	3377.1	3387.8	3359.3	3352.2	3394.9	3416.3	3419.8	3441.2	3473.2	3530.2	3540.8
17.5°	3313.1	3320.2	3298.8	3291.7	3334.4	3355.8	3359.3	3384.3	3423.4	3480.3	3498.1
20°	3238.4	3245.5	3224.1	3217.0	3259.7	3284.6	3288.2	3309.5	3355.8	3416.3	3434.1
22.5°	3149.4	3163.6	3138.7	3131.6	3174.3	3195.6	3206.3	3224.1	3270.4	3330.9	3355.8
25°	3056.9	3056.9	3039.1	3035.5	3074.7	3099.6	3096.0	3120.9	3167.2	3227.7	3249.0
27.5°	2935.9	2932.3	2914.5	2911.0	2953.7	2975.0	2967.9	2992.8	3035.5	3096.0	3117.4
30°	2775.7	2782.8	2757.9	2750.8	2786.4	2822.0	2818.4	2843.3	2886.0	2943.0	2957.2
32.5°	2583.6	2590.7	2587.1	2576.4	2608.5	2626.3	2636.9	2654.7	2690.3	2750.8	2765.1
35°	2402.1	2391.4	2377.2	2377.2	2409.2	2437.7	2427.0	2448.3	2483.9	2544.4	2548.0
37.5°	2177.9	2174.3	2167.2	2160.1	2195.7	2202.8	2206.3	2220.6	2252.6	2302.4	2295.3
40°	1943.0	1946.6	1943.0	1928.8	1950.1	1978.6	1975.0	1982.2	2010.6	2046.2	2035.5
42.5°	1722.4	1722.4	1722.4	1708.1	1733.1	1747.3	1754.4	1750.8	1758.0	1790.0	1775.8
45°	1512.4	1516.0	1512.4	1508.9	1512.4	1519.5	1512.4	1508.9	1508.9	1519.5	1498.2
47.5°	1330.9	1330.9	1320.3	1309.6	1320.3	1323.8	1313.1	1302.5	1298.9	1295.3	1259.8
50°	1167.2	1163.7	1160.1	1142.3	1153.0	1156.6	1142.3	1135.2	1121.0	1103.2	1060.5
52.5°	1024.9	1021.3	1017.8	1000.0	1007.1	1010.7	996.4	982.2	964.4	950.2	896.8
55°	903.9	900.3	900.3	889.7	882.5	889.7	875.4	864.7	839.8	822.0	768.7
57.5°	800.7	800.7	793.6	782.9	786.5	786.5	772.2	758.0	736.6	715.3	672.6
60°	711.7	711.7	711.7	701.0	701.0	701.0	693.9	679.7	661.9	640.6	597.8
62.5°	640.6	640.6	637.0	626.3	629.9	629.9	622.8	608.5	590.7	576.5	533.8
65°	583.6	583.6	583.6	572.9	572.9	576.5	569.4	555.1	540.9	523.1	484.0
67.5°	512.4	508.9	508.9	501.8	505.3	508.9	501.8	491.1	473.3	462.6	427.0
70°	423.5	427.0	430.6	419.9	423.5	423.5	419.9	409.2	398.6	387.9	355.9
72.5°	345.2	345.2	341.6	338.1	338.1	341.6	334.5	323.8	316.7	309.6	284.7
75°	263.3	259.8	263.3	256.2	256.2	256.2	249.1	245.5	242.0	231.3	213.5
77.5°	192.2	188.6	188.6	181.5	185.0	185.0	181.5	174.4	167.3	163.7	149.5
80°	131.7	131.7	131.7	128.1	128.1	124.6	124.6	121.0	113.9	110.3	103.2
82.5°	89.0	89.0	89.0	85.4	85.4	85.4	81.8	78.3	74.7	71.2	64.1
85°	56.9	56.9	56.9	53.4	53.4	53.4	49.8	49.8	46.3	42.7	35.6
87.5°	32.0	32.0	32.0	28.5	28.5	28.5	28.5	28.5	24.9	21.4	17.8
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°	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3
2.5°	3708.1	3658.3	3690.3	3690.3	3679.6	3708.1	3725.9	3740.1	3736.6	3704.5	3701.0
5°	3679.6	3636.9	3672.5	3676.1	3665.4	3704.5	3729.4	3747.2	3750.8	3722.3	3725.9
7.5°	3658.3	3622.7	3668.9	3683.2	3679.6	3715.2	3743.7	3772.1	3786.4	3765.0	3768.6
10°	3647.6	3619.1	3668.9	3690.3	3693.9	3733.0	3775.7	3814.8	3832.6	3818.4	3829.1
12.5°	3633.4	3615.6	3672.5	3704.5	3718.8	3757.9	3811.3	3857.6	3886.0	3878.9	3900.3
15°	3619.1	3604.9	3672.5	3718.8	3736.6	3772.1	3832.6	3900.3	3932.3	3928.7	3957.2
17.5°	3583.5	3580.0	3651.2	3701.0	3725.9	3768.6	3825.5	3907.4	3939.4	3946.5	3982.1
20°	3526.6	3526.6	3604.9	3658.3	3686.7	3725.9	3797.1	3875.3	3914.5	3921.6	3960.8
22.5°	3448.3	3455.4	3530.2	3583.5	3626.2	3654.7	3729.4	3811.3	3846.9	3857.6	3900.3
25°	3345.1	3352.2	3423.4	3476.8	3523.0	3555.1	3626.2	3701.0	3743.7	3754.4	3786.4
27.5°	3209.9	3224.1	3291.7	3345.1	3384.3	3405.6	3480.3	3558.6	3590.7	3601.3	3633.4
30°	3053.3	3056.9	3124.5	3170.7	3209.9	3227.7	3291.7	3373.6	3398.5	3409.2	3455.4
32.5°	2861.1	2857.6	2921.6	2964.3	2996.4	3017.7	3085.3	3138.7	3163.6	3181.4	3206.3
35°	2629.8	2626.3	2672.5	2722.4	2747.3	2754.4	2822.0	2878.9	2893.2	2907.4	2939.4
37.5°	2370.0	2370.0	2409.2	2434.1	2462.6	2473.2	2505.3	2569.3	2594.2	2590.7	2615.6
40°	2096.0	2081.8	2110.3	2135.2	2142.3	2145.9	2177.9	2227.7	2245.5	2245.5	2263.3
42.5°	1807.8	1786.4	1790.0	1804.2	1811.3	1786.4	1807.8	1839.8	1829.1	1843.4	1846.9
45°	1501.7	1469.7	1455.5	1423.5	1430.6	1405.7	1391.4	1398.5	1395.0	1359.4	1366.5
47.5°	1252.6	1195.7	1170.8	1124.5	1113.9	1085.4	1067.6	1035.6	1007.1	1007.1	989.3
50°	1042.7	985.7	935.9	882.5	864.7	839.8	800.7	758.0	736.6	715.3	697.5
52.5°	875.4	814.9	754.4	697.5	672.6	640.6	587.2	544.5	505.3	484.0	462.6
55°	740.2	672.6	608.5	548.0	516.0	484.0	430.6	380.8	334.5	306.0	288.2
57.5°	637.0	572.9	505.3	441.3	412.8	377.2	320.3	266.9	224.2	192.2	174.4
60°	562.3	498.2	437.7	370.1	341.6	306.0	245.5	195.7	153.0	124.6	103.2
62.5°	498.2	441.3	377.2	316.7	288.2	252.7	195.7	145.9	106.8	78.3	60.5
65°	451.9	395.0	341.6	281.1	256.2	220.6	167.3	121.0	85.4	60.5	42.7
67.5°	398.6	348.7	295.4	245.5	220.6	192.2	142.3	103.2	71.2	49.8	35.6
70°	334.5	295.4	249.1	202.8	185.0	160.1	117.4	85.4	56.9	39.1	28.5
72.5°	266.9	234.9	199.3	163.7	149.5	124.6	96.1	67.6	42.7	28.5	21.4
75°	202.8	177.9	149.5	124.6	110.3	96.1	71.2	49.8	32.0	21.4	14.2
77.5°	138.8	128.1	106.8	85.4	78.3	67.6	46.3	32.0	21.4	14.2	7.1
80°	96.1	85.4	71.2	56.9	49.8	42.7	28.5	21.4	10.7	7.1	3.6
82.5°	60.5	49.8	42.7	35.6	32.0	24.9	17.8	10.7	7.1	3.6	3.6
85°	32.0	28.5	24.9	17.8	17.8	14.2	10.7	7.1	3.6	0.0	0.0
87.5°	17.8	14.2	10.7	7.1	7.1	3.6	3.6	3.6	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°	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3
2.5°	3743.7	3743.7	3740.1	3782.8	3733.0	3782.8	3757.9	3782.8	3747.2	3743.7	3747.2
5°	3772.1	3782.8	3786.4	3825.5	3779.3	3839.8	3818.4	3839.8	3814.8	3822.0	3832.6
7.5°	3829.1	3846.9	3843.3	3893.1	3846.9	3914.5	3900.3	3932.3	3907.4	3914.5	3928.7
10°	3893.1	3914.5	3918.0	3967.9	3925.2	4007.0	3989.2	4024.8	4003.5	4014.1	4031.9
12.5°	3967.9	3992.8	3996.3	4053.3	4007.0	4092.4	4081.7	4117.3	4099.5	4110.2	4131.6
15°	4024.8	4060.4	4067.5	4124.4	4074.6	4163.6	4156.5	4202.7	4174.3	4192.1	4209.9
17.5°	4053.3	4085.3	4099.5	4152.9	4110.2	4199.2	4192.1	4231.2	4209.9	4227.7	4249.0
20°	4035.5	4074.6	4085.3	4138.7	4096.0	4184.9	4174.3	4213.4	4192.1	4206.3	4227.7
22.5°	3971.4	4010.6	4024.8	4074.6	4035.5	4117.3	4113.8	4149.4	4120.9	4138.7	4156.5
25°	3857.6	3900.3	3907.4	3953.6	3910.9	3996.3	3989.2	4028.4	4007.0	4017.7	4042.6
27.5°	3693.9	3743.7	3754.4	3793.5	3761.5	3832.6	3832.6	3864.7	3839.8	3839.8	3864.7
30°	3498.1	3548.0	3555.1	3587.1	3558.6	3622.7	3626.2	3658.3	3619.1	3640.5	3644.0
32.5°	3259.7	3291.7	3313.1	3341.6	3298.8	3380.7	3370.0	3394.9	3373.6	3373.6	3391.4
35°	2971.5	3010.6	3021.3	3056.9	3021.3	3085.3	3085.3	3099.6	3078.2	3078.2	3106.7
37.5°	2658.3	2686.8	2690.3	2725.9	2697.4	2750.8	2747.3	2757.9	2736.6	2750.8	2750.8
40°	2291.8	2313.1	2320.2	2338.0	2334.5	2373.6	2370.0	2377.2	2366.5	2370.0	2377.2
42.5°	1864.7	1893.2	1907.4	1921.7	1900.3	1953.7	1943.0	1953.7	1950.1	1953.7	1964.4
45°	1373.6	1395.0	1405.7	1409.2	1402.1	1434.1	1459.0	1437.7	1441.2	1434.1	1448.4
47.5°	992.9	996.4	989.3	1010.7	992.9	1007.1	1014.2	1017.8	996.4	992.9	1007.1
50°	679.7	697.5	672.6	683.3	679.7	693.9	686.8	690.4	669.0	679.7	672.6
52.5°	451.9	448.4	441.3	444.8	437.7	437.7	437.7	444.8	430.6	423.5	416.4
55°	274.0	266.9	252.7	249.1	249.1	252.7	245.5	238.4	238.4	234.9	234.9
57.5°	160.1	149.5	142.3	138.8	131.7	128.1	124.6	124.6	117.4	117.4	117.4
60°	89.0	78.3	71.2	64.1	64.1	60.5	56.9	53.4	53.4	53.4	49.8
62.5°	46.3	39.1	32.0	28.5	28.5	24.9	21.4	21.4	21.4	21.4	17.8
65°	32.0	24.9	21.4	17.8	17.8	14.2	14.2	14.2	14.2	14.2	14.2
67.5°	24.9	21.4	17.8	14.2	14.2	14.2	10.7	10.7	10.7	10.7	10.7
70°	21.4	14.2	14.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
72.5°	14.2	14.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
75°	10.7	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
80°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P252194

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3	3722.3
2.5°	3779.3	3775.7	3779.3	3786.4	3772.1	3814.8	3793.5	3814.8
5°	3861.1	3864.7	3868.2	3878.9	3861.1	3914.5	3886.0	3918.0
7.5°	3967.9	3971.4	3975.0	3985.7	3975.0	4028.4	3996.3	4024.8
10°	4078.2	4085.3	4085.3	4103.1	4092.4	4142.2	4120.9	4156.5
12.5°	4181.4	4188.5	4195.6	4206.3	4199.2	4252.6	4234.8	4263.2
15°	4263.2	4277.5	4281.0	4295.3	4288.1	4345.1	4323.7	4352.2
17.5°	4302.4	4316.6	4316.6	4334.4	4327.3	4387.8	4359.3	4391.3
20°	4281.0	4291.7	4295.3	4313.1	4305.9	4366.4	4338.0	4377.1
22.5°	4213.4	4217.0	4220.5	4238.3	4234.8	4288.1	4263.2	4288.1
25°	4088.9	4099.5	4096.0	4110.2	4110.2	4152.9	4124.4	4145.8
27.5°	3910.9	3921.6	3921.6	3939.4	3925.2	3967.9	3939.4	3971.4
30°	3693.9	3704.5	3697.4	3711.6	3697.4	3740.1	3718.8	3729.4
32.5°	3434.1	3434.1	3437.6	3441.2	3434.1	3473.2	3451.9	3473.2
35°	3124.5	3131.6	3135.2	3138.7	3131.6	3160.1	3135.2	3149.4
37.5°	2775.7	2793.5	2790.0	2793.5	2782.8	2818.4	2797.1	2804.2
40°	2402.1	2402.1	2398.5	2405.6	2395.0	2423.4	2409.2	2416.3
42.5°	1967.9	1978.6	1964.4	1982.2	1953.7	1992.8	1978.6	1967.9
45°	1476.8	1462.6	1459.0	1462.6	1451.9	1455.5	1466.2	1459.0
47.5°	1007.1	1007.1	1000.0	989.3	1003.5	1007.1	992.9	992.9
50°	676.1	676.1	669.0	665.5	672.6	669.0	661.9	672.6
52.5°	430.6	416.4	416.4	423.5	416.4	409.2	419.9	412.8
55°	234.9	227.8	227.8	234.9	227.8	227.8	224.2	231.3
57.5°	113.9	117.4	113.9	113.9	113.9	113.9	110.3	113.9
60°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
62.5°	21.4	21.4	17.8	17.8	17.8	17.8	17.8	17.8
65°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
67.5°	10.7	10.7	10.7	10.7	10.7	14.2	10.7	10.7
70°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
72.5°	10.7	10.7	14.2	14.2	14.2	14.2	14.2	14.2
75°	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)