

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: P252208

Luminaire Tested: **LD6B60D010TE EU6B60708035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252208
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: LD6B60D010TE EU6B60708035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7797.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

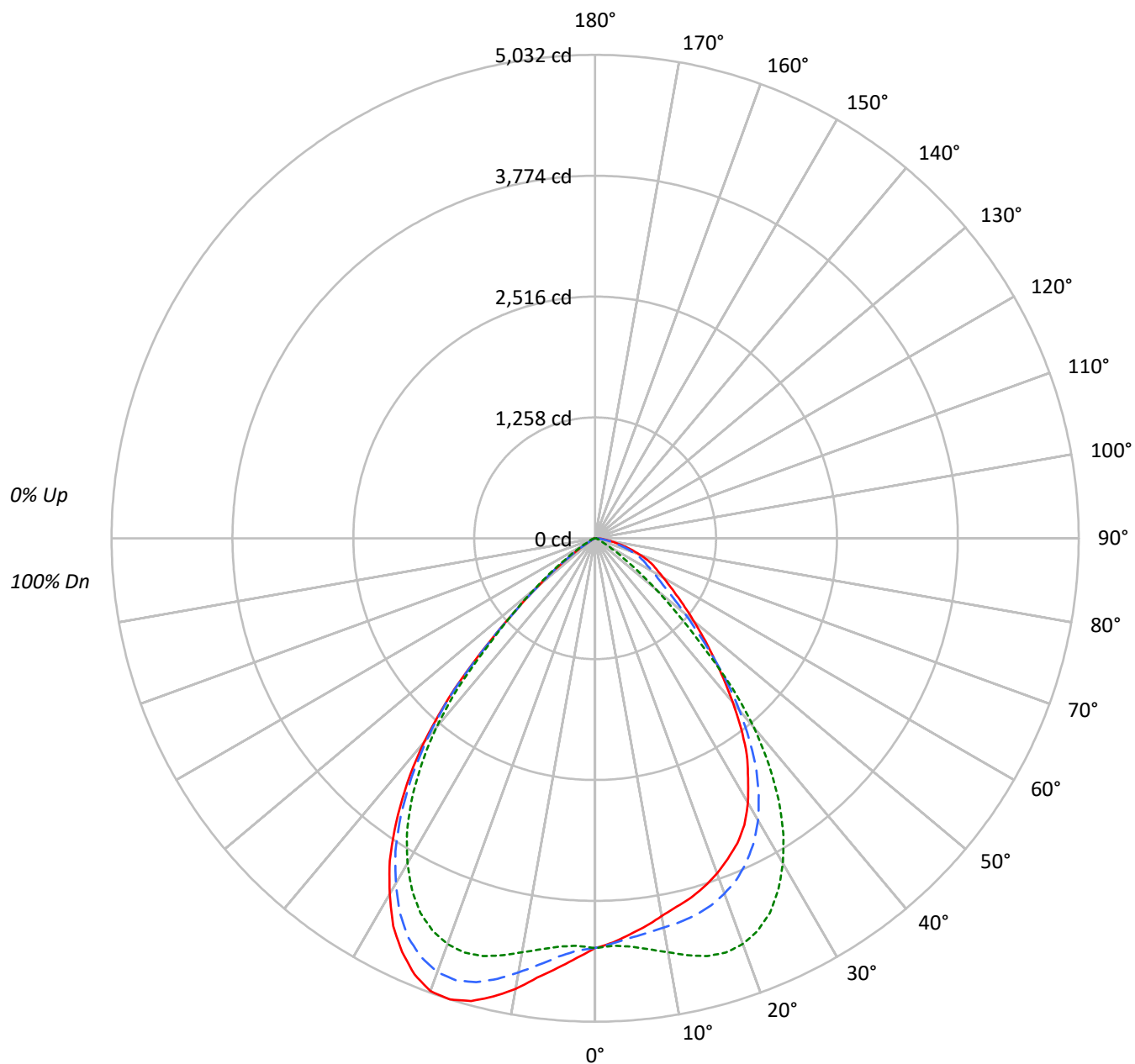
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	278290	278290	278290
5°	271076	279353	294043
10°	264478	289877	315541
15°	261388	304081	336859
20°	257646	312001	348242
25°	252164	309701	341994
30°	239620	294305	321952
35°	219228	265350	287436
40°	189630	219148	235824
45°	159903	143729	154266
50°	135762	83197	78223
55°	117816	39890	30153
60°	106421	18620	7450
65°	103244	10698	2516
70°	92571	8565	2327
75°	76075	6176	1033
80°	56694	3081	0
85°	48806	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.0	5.3
10°-20°	1255.7	16.1
20°-30°	1918.6	24.6
30°-40°	2006.6	25.7
40°-50°	1301.7	16.7
50°-60°	516.8	6.6
60°-70°	245.2	3.1
70°-80°	116.6	1.5
80°-90°	23.8	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°	3586.2	46.0
0°-40°	5592.9	71.7
0°-60°	7411.4	95.1
0°-90°	7797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4266	4266	4266	4266	4266	
5°	4139	4176	4266	4372	4490	391
15°	3870	4058	4502	4784	4987	1091
25°	3503	3723	4302	4592	4751	1604
35°	2753	2920	3332	3528	3609	1702
45°	1733	1717	1558	1652	1672	1349
55°	1036	881	351	273	265	939
65°	669	555	69	16	16	653
75°	302	245	24	8	4	325
85°	65	41	0	0	0	76
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°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4212.6	4220.7	4175.9	4163.6	4196.2	4208.5	4212.6	4200.3	4204.4	4220.7	4220.7
5°	4139.2	4147.3	4106.5	4094.3	4126.9	4135.1	4147.3	4143.2	4155.5	4179.9	4175.9
7.5°	4069.8	4082.1	4037.2	4020.9	4061.7	4082.1	4090.2	4090.2	4106.5	4139.2	4143.2
10°	3992.3	4008.7	3967.9	3959.7	4004.6	4025.0	4029.1	4037.2	4061.7	4106.5	4114.7
12.5°	3927.1	3943.4	3914.9	3902.6	3951.6	3972.0	3980.1	3996.4	4025.0	4082.1	4090.2
15°	3870.0	3882.2	3849.6	3841.5	3890.4	3914.9	3918.9	3943.4	3980.1	4045.4	4057.6
17.5°	3796.6	3804.8	3780.3	3772.1	3821.1	3845.5	3849.6	3878.2	3923.0	3988.3	4008.7
20°	3711.0	3719.1	3694.7	3686.5	3735.4	3764.0	3768.1	3792.5	3845.5	3914.9	3935.3
22.5°	3609.0	3625.3	3596.8	3588.6	3637.6	3662.0	3674.3	3694.7	3747.7	3817.0	3845.5
25°	3503.0	3503.0	3482.6	3478.5	3523.4	3551.9	3547.8	3576.4	3629.4	3698.7	3723.2
27.5°	3364.3	3360.3	3339.9	3335.8	3384.7	3409.2	3401.0	3429.6	3478.5	3547.8	3572.3
30°	3180.8	3189.0	3160.4	3152.3	3193.1	3233.8	3229.8	3258.3	3307.2	3372.5	3388.8
32.5°	2960.6	2968.8	2964.7	2952.5	2989.2	3009.6	3021.8	3042.2	3083.0	3152.3	3168.6
35°	2752.6	2740.4	2724.1	2724.1	2760.8	2793.4	2781.2	2805.7	2846.4	2915.8	2919.8
37.5°	2495.7	2491.6	2483.5	2475.3	2516.1	2524.3	2528.4	2544.7	2581.4	2638.5	2630.3
40°	2226.6	2230.7	2226.6	2210.3	2234.7	2267.4	2263.3	2271.4	2304.1	2344.8	2332.6
42.5°	1973.7	1973.7	1973.7	1957.4	1986.0	2002.3	2010.4	2006.4	2014.5	2051.2	2034.9
45°	1733.1	1737.2	1733.1	1729.1	1733.1	1741.3	1733.1	1729.1	1729.1	1741.3	1716.8
47.5°	1525.2	1525.2	1512.9	1500.7	1512.9	1517.0	1504.8	1492.5	1488.5	1484.4	1443.6
50°	1337.6	1333.5	1329.4	1309.0	1321.3	1325.3	1309.0	1300.9	1284.6	1264.2	1215.2
52.5°	1174.5	1170.4	1166.3	1145.9	1154.1	1158.1	1141.8	1125.5	1105.1	1088.8	1027.7
55°	1035.8	1031.7	1031.7	1019.5	1011.3	1019.5	1003.2	991.0	962.4	942.0	880.8
57.5°	917.5	917.5	909.4	897.2	901.2	901.2	884.9	868.6	844.1	819.7	770.7
60°	815.6	815.6	815.6	803.4	803.4	803.4	795.2	778.9	758.5	734.0	685.1
62.5°	734.0	734.0	730.0	717.7	721.8	721.8	713.6	697.3	676.9	660.6	611.7
65°	668.8	668.8	668.8	656.6	656.6	660.6	652.5	636.2	619.9	599.5	554.6
67.5°	587.2	583.2	583.2	575.0	579.1	583.2	575.0	562.8	542.4	530.1	489.4
70°	485.3	489.4	493.4	481.2	485.3	485.3	481.2	469.0	456.7	444.5	407.8
72.5°	395.6	395.6	391.5	387.4	387.4	391.5	383.3	371.1	362.9	354.8	326.2
75°	301.8	297.7	301.8	293.6	293.6	293.6	285.5	281.4	277.3	265.1	244.7
77.5°	220.2	216.1	216.1	208.0	212.1	212.1	208.0	199.8	191.7	187.6	171.3
80°	150.9	150.9	150.9	146.8	146.8	142.7	142.7	138.7	130.5	126.4	118.3
82.5°	101.9	101.9	101.9	97.9	97.9	97.9	93.8	89.7	85.6	81.6	73.4
85°	65.2	65.2	65.2	61.2	61.2	61.2	57.1	57.1	53.0	48.9	40.8
87.5°	36.7	36.7	36.7	32.6	32.6	32.6	32.6	32.6	28.5	24.5	20.4
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°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4249.3	4192.2	4228.9	4228.9	4216.6	4249.3	4269.7	4286.0	4281.9	4245.2	4241.1
5°	4216.6	4167.7	4208.5	4212.6	4200.3	4245.2	4273.7	4294.1	4298.2	4265.6	4269.7
7.5°	4192.2	4151.4	4204.4	4220.7	4216.6	4257.4	4290.0	4322.7	4339.0	4314.5	4318.6
10°	4179.9	4147.3	4204.4	4228.9	4233.0	4277.8	4326.7	4371.6	4392.0	4375.7	4387.9
12.5°	4163.6	4143.2	4208.5	4245.2	4261.5	4306.4	4367.5	4420.5	4453.2	4445.0	4469.5
15°	4147.3	4131.0	4208.5	4261.5	4281.9	4322.7	4392.0	4469.5	4506.2	4502.1	4534.7
17.5°	4106.5	4102.5	4184.0	4241.1	4269.7	4318.6	4383.8	4477.6	4514.3	4522.5	4563.3
20°	4041.3	4041.3	4131.0	4192.2	4224.8	4269.7	4351.2	4440.9	4485.8	4493.9	4538.8
22.5°	3951.6	3959.7	4045.4	4106.5	4155.5	4188.1	4273.7	4367.5	4408.3	4420.5	4469.5
25°	3833.3	3841.5	3923.0	3984.2	4037.2	4073.9	4155.5	4241.1	4290.0	4302.3	4339.0
27.5°	3678.3	3694.7	3772.1	3833.3	3878.2	3902.6	3988.3	4078.0	4114.7	4126.9	4163.6
30°	3498.9	3503.0	3580.5	3633.5	3678.3	3698.7	3772.1	3865.9	3894.5	3906.7	3959.7
32.5°	3278.7	3274.6	3348.0	3397.0	3433.7	3458.1	3535.6	3596.8	3625.3	3645.7	3674.3
35°	3013.6	3009.6	3062.6	3119.7	3148.2	3156.4	3233.8	3299.1	3315.4	3331.7	3368.4
37.5°	2715.9	2715.9	2760.8	2789.3	2822.0	2834.2	2870.9	2944.3	2972.9	2968.8	2997.3
40°	2401.9	2385.6	2418.2	2446.8	2454.9	2459.0	2495.7	2552.8	2573.2	2573.2	2593.6
42.5°	2071.6	2047.1	2051.2	2067.5	2075.7	2047.1	2071.6	2108.3	2096.1	2112.4	2116.5
45°	1720.9	1684.2	1667.9	1631.2	1639.4	1610.8	1594.5	1602.6	1598.6	1557.8	1565.9
47.5°	1435.5	1370.2	1341.7	1288.6	1276.4	1243.8	1223.4	1186.7	1154.1	1154.1	1133.7
50°	1194.9	1129.6	1072.5	1011.3	991.0	962.4	917.5	868.6	844.1	819.7	799.3
52.5°	1003.2	933.9	864.5	799.3	770.7	734.0	672.9	623.9	579.1	554.6	530.1
55°	848.2	770.7	697.3	628.0	591.3	554.6	493.4	436.3	383.3	350.7	330.3
57.5°	730.0	656.6	579.1	505.7	473.0	432.3	367.0	305.8	256.9	220.2	199.8
60°	644.3	570.9	501.6	424.1	391.5	350.7	281.4	224.3	175.4	142.7	118.3
62.5°	570.9	505.7	432.3	362.9	330.3	289.5	224.3	167.2	122.3	89.7	69.3
65°	517.9	452.7	391.5	322.2	293.6	252.8	191.7	138.7	97.9	69.3	48.9
67.5°	456.7	399.6	338.5	281.4	252.8	220.2	163.1	118.3	81.6	57.1	40.8
70°	383.3	338.5	285.5	232.4	212.1	183.5	134.6	97.9	65.2	44.9	32.6
72.5°	305.8	269.1	228.4	187.6	171.3	142.7	110.1	77.5	48.9	32.6	24.5
75°	232.4	203.9	171.3	142.7	126.4	110.1	81.6	57.1	36.7	24.5	16.3
77.5°	159.0	146.8	122.3	97.9	89.7	77.5	53.0	36.7	24.5	16.3	8.2
80°	110.1	97.9	81.6	65.2	57.1	48.9	32.6	24.5	12.2	8.2	4.1
82.5°	69.3	57.1	48.9	40.8	36.7	28.5	20.4	12.2	8.2	4.1	4.1
85°	36.7	32.6	28.5	20.4	20.4	16.3	12.2	8.2	4.1	0.0	0.0
87.5°	20.4	16.3	12.2	8.2	8.2	4.1	4.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4290.0	4290.0	4286.0	4334.9	4277.8	4334.9	4306.4	4334.9	4294.1	4290.0	4294.1
5°	4322.7	4334.9	4339.0	4383.8	4330.8	4400.1	4375.7	4400.1	4371.6	4379.8	4392.0
7.5°	4387.9	4408.3	4404.2	4461.3	4408.3	4485.8	4469.5	4506.2	4477.6	4485.8	4502.1
10°	4461.3	4485.8	4489.9	4547.0	4498.0	4591.8	4571.4	4612.2	4587.7	4600.0	4620.4
12.5°	4547.0	4575.5	4579.6	4644.8	4591.8	4689.7	4677.5	4718.2	4697.8	4710.1	4734.5
15°	4612.2	4653.0	4661.1	4726.4	4669.3	4771.2	4763.1	4816.1	4783.5	4803.9	4824.3
17.5°	4644.8	4681.5	4697.8	4759.0	4710.1	4812.0	4803.9	4848.7	4824.3	4844.6	4869.1
20°	4624.4	4669.3	4681.5	4742.7	4693.8	4795.7	4783.5	4828.3	4803.9	4820.2	4844.6
22.5°	4551.0	4595.9	4612.2	4669.3	4624.4	4718.2	4714.2	4754.9	4722.3	4742.7	4763.1
25°	4420.5	4469.5	4477.6	4530.6	4481.7	4579.6	4571.4	4616.3	4591.8	4604.0	4632.6
27.5°	4233.0	4290.0	4302.3	4347.1	4310.4	4392.0	4392.0	4428.7	4400.1	4400.1	4428.7
30°	4008.7	4065.8	4073.9	4110.6	4078.0	4151.4	4155.5	4192.2	4147.3	4171.8	4175.9
32.5°	3735.4	3772.1	3796.6	3829.2	3780.3	3874.1	3861.9	3890.4	3865.9	3865.9	3886.3
35°	3405.1	3450.0	3462.2	3503.0	3462.2	3535.6	3535.6	3551.9	3527.5	3527.5	3560.1
37.5°	3046.3	3078.9	3083.0	3123.7	3091.1	3152.3	3148.2	3160.4	3136.0	3152.3	3152.3
40°	2626.2	2650.7	2658.8	2679.2	2675.2	2720.0	2715.9	2724.1	2711.9	2715.9	2724.1
42.5°	2136.9	2169.5	2185.8	2202.1	2177.6	2238.8	2226.6	2238.8	2234.7	2238.8	2251.0
45°	1574.1	1598.6	1610.8	1614.9	1606.7	1643.4	1672.0	1647.5	1651.6	1643.4	1659.7
47.5°	1137.8	1141.8	1133.7	1158.1	1137.8	1154.1	1162.2	1166.3	1141.8	1137.8	1154.1
50°	778.9	799.3	770.7	783.0	778.9	795.2	787.1	791.1	766.7	778.9	770.7
52.5°	517.9	513.8	505.7	509.7	501.6	501.6	501.6	509.7	493.4	485.3	477.1
55°	314.0	305.8	289.5	285.5	285.5	289.5	281.4	273.2	273.2	269.1	269.1
57.5°	183.5	171.3	163.1	159.0	150.9	146.8	142.7	142.7	134.6	134.6	134.6
60°	101.9	89.7	81.6	73.4	73.4	69.3	65.2	61.2	61.2	61.2	57.1
62.5°	53.0	44.9	36.7	32.6	32.6	28.5	24.5	24.5	24.5	24.5	20.4
65°	36.7	28.5	24.5	20.4	20.4	16.3	16.3	16.3	16.3	16.3	16.3
67.5°	28.5	24.5	20.4	16.3	16.3	16.3	12.2	12.2	12.2	12.2	12.2
70°	24.5	16.3	16.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
72.5°	16.3	16.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	12.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
80°	4.1	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: P252208

CATALOG NUMBER: LD6B60D010TE EU6B60708035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6	4265.6
2.5°	4330.8	4326.7	4330.8	4339.0	4322.7	4371.6	4347.1	4371.6
5°	4424.6	4428.7	4432.8	4445.0	4424.6	4485.8	4453.2	4489.9
7.5°	4547.0	4551.0	4555.1	4567.3	4555.1	4616.3	4579.6	4612.2
10°	4673.4	4681.5	4681.5	4701.9	4689.7	4746.8	4722.3	4763.1
12.5°	4791.6	4799.8	4807.9	4820.2	4812.0	4873.2	4852.8	4885.4
15°	4885.4	4901.7	4905.8	4922.1	4914.0	4979.2	4954.8	4987.4
17.5°	4930.3	4946.6	4946.6	4967.0	4958.8	5028.2	4995.5	5032.2
20°	4905.8	4918.1	4922.1	4942.5	4934.4	5003.7	4971.1	5015.9
22.5°	4828.3	4832.4	4836.5	4856.9	4852.8	4914.0	4885.4	4914.0
25°	4685.6	4697.8	4693.8	4710.1	4710.1	4759.0	4726.4	4750.9
27.5°	4481.7	4493.9	4493.9	4514.3	4498.0	4547.0	4514.3	4551.0
30°	4233.0	4245.2	4237.0	4253.3	4237.0	4286.0	4261.5	4273.7
32.5°	3935.3	3935.3	3939.3	3943.4	3935.3	3980.1	3955.6	3980.1
35°	3580.5	3588.6	3592.7	3596.8	3588.6	3621.3	3592.7	3609.0
37.5°	3180.8	3201.2	3197.1	3201.2	3189.0	3229.8	3205.3	3213.5
40°	2752.6	2752.6	2748.6	2756.7	2744.5	2777.1	2760.8	2769.0
42.5°	2255.1	2267.4	2251.0	2271.4	2238.8	2283.7	2267.4	2255.1
45°	1692.4	1676.1	1672.0	1676.1	1663.8	1667.9	1680.1	1672.0
47.5°	1154.1	1154.1	1145.9	1133.7	1150.0	1154.1	1137.8	1137.8
50°	774.8	774.8	766.7	762.6	770.7	766.7	758.5	770.7
52.5°	493.4	477.1	477.1	485.3	477.1	469.0	481.2	473.0
55°	269.1	261.0	261.0	269.1	261.0	261.0	256.9	265.1
57.5°	130.5	134.6	130.5	130.5	130.5	130.5	126.4	130.5
60°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
62.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4
65°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
67.5°	12.2	12.2	12.2	12.2	12.2	16.3	12.2	12.2
70°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
72.5°	12.2	12.2	16.3	16.3	16.3	16.3	16.3	16.3
75°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1
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)