

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: P252227

Luminaire Tested: **LD6B70D010TE EU6B60709035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252227
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: LD6B70D010TE EU6B60709035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7816.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

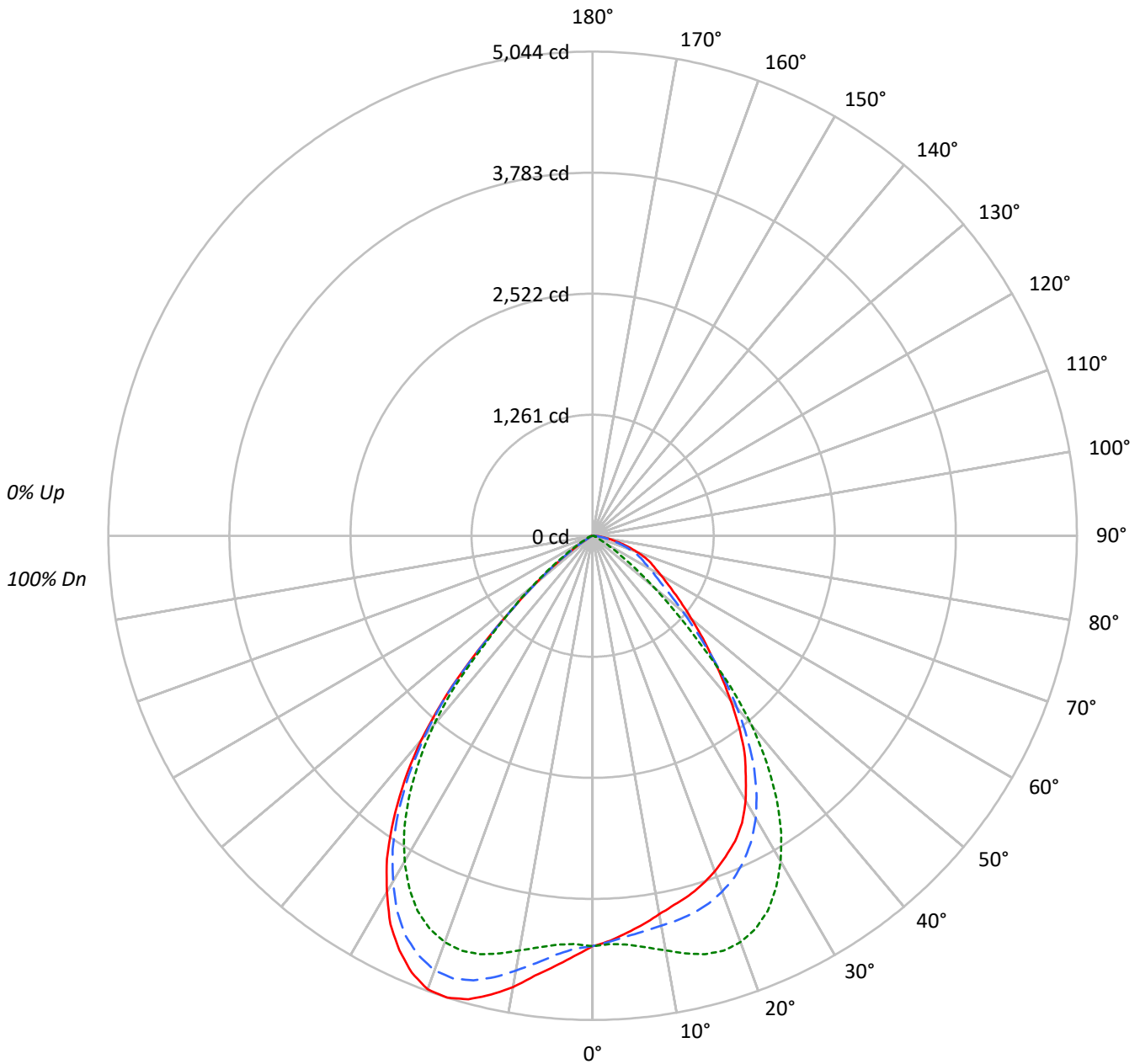
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	278969	278969	278969
5°	271730	280035	294757
10°	265127	290580	316310
15°	262023	304824	337677
20°	258271	312765	349089
25°	252776	310457	342822
30°	240208	295021	322736
35°	219762	265995	288136
40°	190090	219685	236394
45°	160300	144080	154635
50°	136086	83400	78416
55°	118100	39992	30222
60°	106681	18672	7464
65°	103491	10729	2532
70°	92800	8584	2346
75°	76251	6176	1033
80°	56844	3081	0
85°	48955	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.0	5.3
10°-20°	1258.7	16.1
20°-30°	1923.2	24.6
30°-40°	2011.5	25.7
40°-50°	1304.9	16.7
50°-60°	518.1	6.6
60°-70°	245.8	3.1
70°-80°	116.9	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°	3595.0	46.0
0°-40°	5606.5	71.7
0°-60°	7429.5	95.1
0°-90°	7816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4276	4276	4276	4276	4276	
5°	4149	4186	4276	4382	4501	392
15°	3879	4068	4513	4795	5000	1093
25°	3512	3732	4313	4603	4762	1608
35°	2759	2927	3340	3536	3618	1706
45°	1737	1721	1562	1656	1676	1352
55°	1038	883	352	274	266	941
65°	670	556	70	16	16	655
75°	302	245	24	8	4	326
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°	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0
2.5°	4222.8	4231.0	4186.0	4173.8	4206.5	4218.7	4222.8	4210.6	4214.6	4231.0	4231.0
5°	4149.2	4157.4	4116.5	4104.3	4137.0	4145.2	4157.4	4153.3	4165.6	4190.1	4186.0
7.5°	4079.7	4092.0	4047.0	4030.7	4071.6	4092.0	4100.2	4100.2	4116.5	4149.2	4153.3
10°	4002.1	4018.4	3977.6	3969.4	4014.3	4034.8	4038.9	4047.0	4071.6	4116.5	4124.7
12.5°	3936.7	3953.0	3924.4	3912.1	3961.2	3981.6	3989.8	4006.2	4034.8	4092.0	4100.2
15°	3879.4	3891.7	3859.0	3850.8	3899.9	3924.4	3928.5	3953.0	3989.8	4055.2	4067.5
17.5°	3805.9	3814.0	3789.5	3781.3	3830.4	3854.9	3859.0	3887.6	3932.6	3998.0	4018.4
20°	3720.0	3728.2	3703.7	3695.5	3744.5	3773.2	3777.2	3801.8	3854.9	3924.4	3944.8
22.5°	3617.8	3634.2	3605.5	3597.4	3646.4	3671.0	3683.2	3703.7	3756.8	3826.3	3854.9
25°	3511.5	3511.5	3491.1	3487.0	3532.0	3560.6	3556.5	3585.1	3638.3	3707.7	3732.3
27.5°	3372.5	3368.4	3348.0	3343.9	3393.0	3417.5	3409.3	3437.9	3487.0	3556.5	3581.0
30°	3188.6	3196.8	3168.1	3160.0	3200.8	3241.7	3237.6	3266.3	3315.3	3380.7	3397.1
32.5°	2967.8	2976.0	2971.9	2959.7	2996.4	3016.9	3029.2	3049.6	3090.5	3160.0	3176.3
35°	2759.3	2747.1	2730.7	2730.7	2767.5	2800.2	2788.0	2812.5	2853.4	2922.9	2927.0
37.5°	2501.8	2497.7	2489.5	2481.4	2522.2	2530.4	2534.5	2550.9	2587.7	2644.9	2636.7
40°	2232.0	2236.1	2232.0	2215.7	2240.2	2272.9	2268.8	2277.0	2309.7	2350.6	2338.3
42.5°	1978.6	1978.6	1978.6	1962.2	1990.8	2007.2	2015.3	2011.3	2019.4	2056.2	2039.9
45°	1737.4	1741.5	1737.4	1733.3	1737.4	1745.5	1737.4	1733.3	1733.3	1745.5	1721.0
47.5°	1528.9	1528.9	1516.6	1504.4	1516.6	1520.7	1508.4	1496.2	1492.1	1488.0	1447.1
50°	1340.8	1336.8	1332.7	1312.2	1324.5	1328.6	1312.2	1304.0	1287.7	1267.3	1218.2
52.5°	1177.3	1173.2	1169.1	1148.7	1156.9	1161.0	1144.6	1128.3	1107.8	1091.5	1030.2
55°	1038.3	1034.2	1034.2	1022.0	1013.8	1022.0	1005.6	993.4	964.8	944.3	883.0
57.5°	919.8	919.8	911.6	899.3	903.4	903.4	887.1	870.7	846.2	821.7	772.6
60°	817.6	817.6	817.6	805.3	805.3	805.3	797.1	780.8	760.4	735.8	686.8
62.5°	735.8	735.8	731.7	719.5	723.6	723.6	715.4	699.0	678.6	662.2	613.2
65°	670.4	670.4	670.4	658.2	658.2	662.2	654.1	637.7	621.4	600.9	556.0
67.5°	588.7	584.6	584.6	576.4	580.5	584.6	576.4	564.1	543.7	531.4	490.6
70°	486.5	490.6	494.6	482.4	486.5	486.5	482.4	470.1	457.8	445.6	408.8
72.5°	396.5	396.5	392.4	388.4	388.4	392.4	384.3	372.0	363.8	355.6	327.0
75°	302.5	298.4	302.5	294.3	294.3	294.3	286.2	282.1	278.0	265.7	245.3
77.5°	220.7	216.7	216.7	208.5	212.6	212.6	208.5	200.3	192.1	188.0	171.7
80°	151.3	151.3	151.3	147.2	147.2	143.1	143.1	139.0	130.8	126.7	118.5
82.5°	102.2	102.2	102.2	98.1	98.1	98.1	94.0	89.9	85.8	81.8	73.6
85°	65.4	65.4	65.4	61.3	61.3	61.3	57.2	57.2	53.1	49.1	40.9
87.5°	36.8	36.8	36.8	32.7	32.7	32.7	32.7	32.7	28.6	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°	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0
2.5°	4259.6	4202.4	4239.2	4239.2	4226.9	4259.6	4280.1	4296.4	4292.3	4255.5	4251.4
5°	4226.9	4177.9	4218.7	4222.8	4210.6	4255.5	4284.1	4304.6	4308.7	4276.0	4280.1
7.5°	4202.4	4161.5	4214.6	4231.0	4226.9	4267.8	4300.5	4333.2	4349.6	4325.0	4329.1
10°	4190.1	4157.4	4214.6	4239.2	4243.3	4288.2	4337.3	4382.3	4402.7	4386.3	4398.6
12.5°	4173.8	4153.3	4218.7	4255.5	4271.9	4316.8	4378.2	4431.3	4464.0	4455.8	4480.4
15°	4157.4	4141.1	4218.7	4271.9	4292.3	4333.2	4402.7	4480.4	4517.2	4513.1	4545.8
17.5°	4116.5	4112.5	4194.2	4251.4	4280.1	4329.1	4394.5	4488.5	4525.3	4533.5	4574.4
20°	4051.1	4051.1	4141.1	4202.4	4235.1	4280.1	4361.8	4451.7	4496.7	4504.9	4549.9
22.5°	3961.2	3969.4	4055.2	4116.5	4165.6	4198.3	4284.1	4378.2	4419.0	4431.3	4480.4
25°	3842.6	3850.8	3932.6	3993.9	4047.0	4083.8	4165.6	4251.4	4300.5	4312.8	4349.6
27.5°	3687.3	3703.7	3781.3	3842.6	3887.6	3912.1	3998.0	4087.9	4124.7	4137.0	4173.8
30°	3507.4	3511.5	3589.2	3642.3	3687.3	3707.7	3781.3	3875.4	3904.0	3916.2	3969.4
32.5°	3286.7	3282.6	3356.2	3405.2	3442.0	3466.6	3544.2	3605.5	3634.2	3654.6	3683.2
35°	3021.0	3016.9	3070.0	3127.3	3155.9	3164.1	3241.7	3307.1	3323.5	3339.8	3376.6
37.5°	2722.6	2722.6	2767.5	2796.1	2828.8	2841.1	2877.9	2951.5	2980.1	2976.0	3004.6
40°	2407.8	2391.4	2424.1	2452.8	2460.9	2465.0	2501.8	2559.0	2579.5	2579.5	2599.9
42.5°	2076.7	2052.1	2056.2	2072.6	2080.8	2052.1	2076.7	2113.5	2101.2	2117.5	2121.6
45°	1725.1	1688.3	1672.0	1635.2	1643.3	1614.7	1598.4	1606.6	1602.5	1561.6	1569.8
47.5°	1438.9	1373.5	1344.9	1291.8	1279.5	1246.8	1226.4	1189.6	1156.9	1156.9	1136.4
50°	1197.8	1132.4	1075.1	1013.8	993.4	964.8	919.8	870.7	846.2	821.7	801.2
52.5°	1005.6	936.1	866.6	801.2	772.6	735.8	674.5	625.5	580.5	556.0	531.4
55°	850.3	772.6	699.0	629.5	592.7	556.0	494.6	437.4	384.3	351.6	331.1
57.5°	731.7	658.2	580.5	506.9	474.2	433.3	367.9	306.6	257.5	220.7	200.3
60°	645.9	572.3	502.8	425.1	392.4	351.6	282.1	224.8	175.8	143.1	118.5
62.5°	572.3	506.9	433.3	363.8	331.1	290.2	224.8	167.6	122.6	89.9	69.5
65°	519.2	453.8	392.4	322.9	294.3	253.5	192.1	139.0	98.1	69.5	49.1
67.5°	457.8	400.6	339.3	282.1	253.5	220.7	163.5	118.5	81.8	57.2	40.9
70°	384.3	339.3	286.2	233.0	212.6	184.0	134.9	98.1	65.4	45.0	32.7
72.5°	306.6	269.8	228.9	188.0	171.7	143.1	110.4	77.7	49.1	32.7	24.5
75°	233.0	204.4	171.7	143.1	126.7	110.4	81.8	57.2	36.8	24.5	16.4
77.5°	159.4	147.2	122.6	98.1	89.9	77.7	53.1	36.8	24.5	16.4	8.2
80°	110.4	98.1	81.8	65.4	57.2	49.1	32.7	24.5	12.3	8.2	4.1
82.5°	69.5	57.2	49.1	40.9	36.8	28.6	20.4	12.3	8.2	4.1	4.1
85°	36.8	32.7	28.6	20.4	20.4	16.4	12.3	8.2	4.1	0.0	0.0
87.5°	20.4	16.4	12.3	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°	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0
2.5°	4300.5	4300.5	4296.4	4345.5	4288.2	4345.5	4316.8	4345.5	4304.6	4300.5	4304.6
5°	4333.2	4345.5	4349.6	4394.5	4341.4	4410.9	4386.3	4410.9	4382.3	4390.4	4402.7
7.5°	4398.6	4419.0	4415.0	4472.2	4419.0	4496.7	4480.4	4517.2	4488.5	4496.7	4513.1
10°	4472.2	4496.7	4500.8	4558.0	4509.0	4603.0	4582.6	4623.4	4598.9	4611.2	4631.6
12.5°	4558.0	4586.7	4590.7	4656.1	4603.0	4701.1	4688.8	4729.7	4709.3	4721.6	4746.1
15°	4623.4	4664.3	4672.5	4737.9	4680.7	4782.9	4774.7	4827.8	4795.1	4815.6	4836.0
17.5°	4656.1	4692.9	4709.3	4770.6	4721.6	4823.8	4815.6	4860.5	4836.0	4856.5	4881.0
20°	4635.7	4680.7	4692.9	4754.3	4705.2	4807.4	4795.1	4840.1	4815.6	4831.9	4856.5
22.5°	4562.1	4607.1	4623.4	4680.7	4635.7	4729.7	4725.6	4766.5	4733.8	4754.3	4774.7
25°	4431.3	4480.4	4488.5	4541.7	4492.6	4590.7	4582.6	4627.5	4603.0	4615.3	4643.9
27.5°	4243.3	4300.5	4312.8	4357.7	4320.9	4402.7	4402.7	4439.5	4410.9	4410.9	4439.5
30°	4018.4	4075.7	4083.8	4120.6	4087.9	4161.5	4165.6	4202.4	4157.4	4181.9	4186.0
32.5°	3744.5	3781.3	3805.9	3838.6	3789.5	3883.5	3871.3	3899.9	3875.4	3875.4	3895.8
35°	3413.4	3458.4	3470.6	3511.5	3470.6	3544.2	3544.2	3560.6	3536.1	3536.1	3568.8
37.5°	3053.7	3086.4	3090.5	3131.3	3098.6	3160.0	3155.9	3168.1	3143.6	3160.0	3160.0
40°	2632.6	2657.2	2665.3	2685.8	2681.7	2726.6	2722.6	2730.7	2718.5	2722.6	2730.7
42.5°	2142.1	2174.8	2191.1	2207.5	2183.0	2244.3	2232.0	2244.3	2240.2	2244.3	2256.5
45°	1577.9	1602.5	1614.7	1618.8	1610.6	1647.4	1676.0	1651.5	1655.6	1647.4	1663.8
47.5°	1140.5	1144.6	1136.4	1161.0	1140.5	1156.9	1165.1	1169.1	1144.6	1140.5	1156.9
50°	780.8	801.2	772.6	784.9	780.8	797.1	789.0	793.1	768.5	780.8	772.6
52.5°	519.2	515.1	506.9	511.0	502.8	502.8	502.8	511.0	494.6	486.5	478.3
55°	314.8	306.6	290.2	286.2	286.2	290.2	282.1	273.9	273.9	269.8	269.8
57.5°	184.0	171.7	163.5	159.4	151.3	147.2	143.1	143.1	134.9	134.9	134.9
60°	102.2	89.9	81.8	73.6	73.6	69.5	65.4	61.3	61.3	61.3	57.2
62.5°	53.1	45.0	36.8	32.7	32.7	28.6	24.5	24.5	24.5	24.5	20.4
65°	36.8	28.6	24.5	20.4	20.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	28.6	24.5	20.4	16.4	16.4	16.4	12.3	12.3	12.3	12.3	12.3
70°	24.5	16.4	16.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	16.4	16.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
75°	12.3	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: P252227

CATALOG NUMBER: LD6B70D010TE EU6B60709035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0	4276.0
2.5°	4341.4	4337.3	4341.4	4349.6	4333.2	4382.3	4357.7	4382.3
5°	4435.4	4439.5	4443.6	4455.8	4435.4	4496.7	4464.0	4500.8
7.5°	4558.0	4562.1	4566.2	4578.5	4566.2	4627.5	4590.7	4623.4
10°	4684.8	4692.9	4692.9	4713.4	4701.1	4758.3	4733.8	4774.7
12.5°	4803.3	4811.5	4819.7	4831.9	4823.8	4885.1	4864.6	4897.3
15°	4897.3	4913.7	4917.8	4934.1	4925.9	4991.4	4966.8	4999.5
17.5°	4942.3	4958.7	4958.7	4979.1	4970.9	5040.4	5007.7	5044.5
20°	4917.8	4930.0	4934.1	4954.6	4946.4	5015.9	4983.2	5028.1
22.5°	4840.1	4844.2	4848.3	4868.7	4864.6	4925.9	4897.3	4925.9
25°	4697.0	4709.3	4705.2	4721.6	4721.6	4770.6	4737.9	4762.4
27.5°	4492.6	4504.9	4504.9	4525.3	4509.0	4558.0	4525.3	4562.1
30°	4243.3	4255.5	4247.4	4263.7	4247.4	4296.4	4271.9	4284.1
32.5°	3944.8	3944.8	3948.9	3953.0	3944.8	3989.8	3965.3	3989.8
35°	3589.2	3597.4	3601.5	3605.5	3597.4	3630.1	3601.5	3617.8
37.5°	3188.6	3209.0	3204.9	3209.0	3196.8	3237.6	3213.1	3221.3
40°	2759.3	2759.3	2755.3	2763.4	2751.2	2783.9	2767.5	2775.7
42.5°	2260.6	2272.9	2256.5	2277.0	2244.3	2289.2	2272.9	2260.6
45°	1696.5	1680.1	1676.0	1680.1	1667.9	1672.0	1684.2	1676.0
47.5°	1156.9	1156.9	1148.7	1136.4	1152.8	1156.9	1140.5	1140.5
50°	776.7	776.7	768.5	764.4	772.6	768.5	760.4	772.6
52.5°	494.6	478.3	478.3	486.5	478.3	470.1	482.4	474.2
55°	269.8	261.6	261.6	269.8	261.6	261.6	257.5	265.7
57.5°	130.8	134.9	130.8	130.8	130.8	130.8	126.7	130.8
60°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
62.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4
65°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	12.3	12.3	12.3	12.3	12.3	16.4	12.3	12.3
70°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	12.3	12.3	16.4	16.4	16.4	16.4	16.4	16.4
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)