

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: P252197

Luminaire Tested: **LD6B50D010TE EU6B30508050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252197
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 EU6B30508050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7044.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

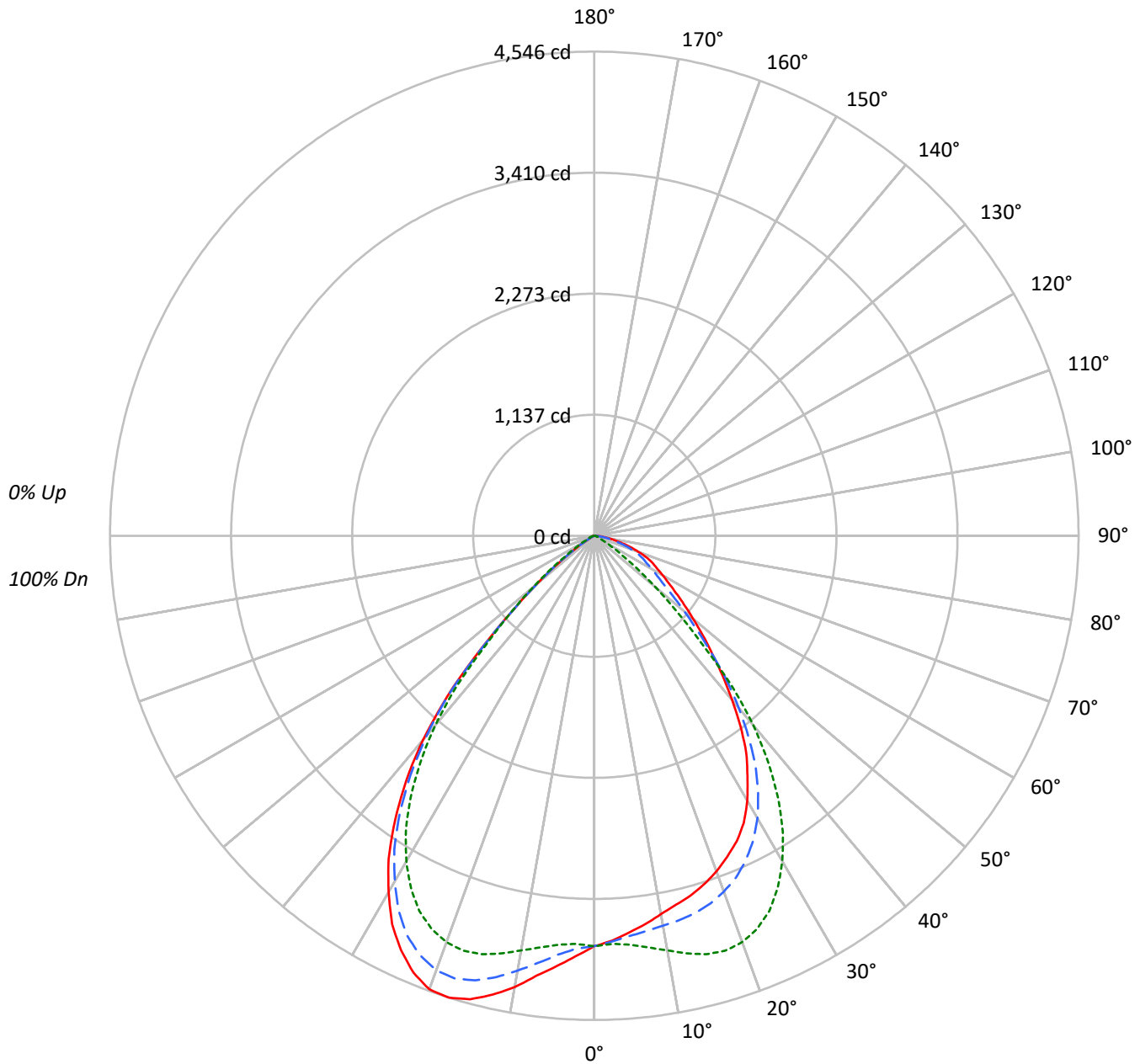
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	251411	251411	251411
5°	244893	252372	265646
10°	238940	261881	285068
15°	236147	274714	304324
20°	232763	281869	314611
25°	227811	279792	308960
30°	216478	265882	290862
35°	198059	239729	259680
40°	171311	197984	213042
45°	144467	129843	139365
50°	122648	75158	70672
55°	106441	36034	27242
60°	96139	16819	6733
65°	93272	9664	2269
70°	83625	7725	2117
75°	68714	5571	933
80°	51209	2780	0
85°	44090	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	5.3
10°-20°	1134.4	16.1
20°-30°	1733.3	24.6
30°-40°	1812.8	25.7
40°-50°	1176.0	16.7
50°-60°	466.9	6.6
60°-70°	221.5	3.1
70°-80°	105.4	1.5
80°-90°	21.5	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°	3239.9	46.0
0°-40°	5052.7	71.7
0°-60°	6695.7	95.1
0°-90°	7044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7044.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3854	3854	3854	3854	3854	
5°	3739	3773	3854	3949	4056	353
15°	3496	3666	4067	4322	4506	985
25°	3165	3364	3887	4148	4292	1449
35°	2487	2638	3010	3187	3260	1538
45°	1566	1551	1407	1492	1510	1218
55°	936	796	317	247	240	848
65°	604	501	63	15	15	590
75°	273	221	22	7	4	294
85°	59	37	0	0	0	69
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°	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6
2.5°	3805.7	3813.1	3772.6	3761.5	3791.0	3802.0	3805.7	3794.7	3798.4	3813.1	3813.1
5°	3739.4	3746.8	3709.9	3698.9	3728.4	3735.7	3746.8	3743.1	3754.2	3776.3	3772.6
7.5°	3676.8	3687.8	3647.3	3632.6	3669.4	3687.8	3695.2	3695.2	3709.9	3739.4	3743.1
10°	3606.8	3621.5	3584.7	3577.3	3617.8	3636.3	3639.9	3647.3	3669.4	3709.9	3717.3
12.5°	3547.8	3562.6	3536.8	3525.7	3569.9	3588.4	3595.7	3610.5	3636.3	3687.8	3695.2
15°	3496.3	3507.3	3477.8	3470.5	3514.7	3536.8	3540.5	3562.6	3595.7	3654.7	3665.7
17.5°	3429.9	3437.3	3415.2	3407.8	3452.1	3474.2	3477.8	3503.6	3544.2	3603.1	3621.5
20°	3352.6	3359.9	3337.8	3330.5	3374.7	3400.5	3404.2	3426.3	3474.2	3536.8	3555.2
22.5°	3260.5	3275.2	3249.4	3242.1	3286.3	3308.4	3319.4	3337.8	3385.7	3448.4	3474.2
25°	3164.7	3164.7	3146.3	3142.6	3183.1	3208.9	3205.2	3231.0	3278.9	3341.5	3363.6
27.5°	3039.4	3035.7	3017.3	3013.6	3057.8	3080.0	3072.6	3098.4	3142.6	3205.2	3227.3
30°	2873.6	2881.0	2855.2	2847.9	2884.7	2921.5	2917.8	2943.6	2987.8	3046.8	3061.5
32.5°	2674.7	2682.1	2678.4	2667.3	2700.5	2718.9	2730.0	2748.4	2785.2	2847.9	2862.6
35°	2486.8	2475.8	2461.0	2461.0	2494.2	2523.6	2512.6	2534.7	2571.5	2634.2	2637.9
37.5°	2254.7	2251.0	2243.6	2236.3	2273.1	2280.5	2284.2	2298.9	2332.1	2383.6	2376.3
40°	2011.5	2015.2	2011.5	1996.8	2018.9	2048.4	2044.7	2052.1	2081.5	2118.4	2107.3
42.5°	1783.1	1783.1	1783.1	1768.4	1794.2	1808.9	1816.3	1812.6	1820.0	1853.1	1838.4
45°	1565.8	1569.4	1565.8	1562.1	1565.8	1573.1	1565.8	1562.1	1562.1	1573.1	1551.0
47.5°	1377.9	1377.9	1366.8	1355.8	1366.8	1370.5	1359.5	1348.4	1344.7	1341.0	1304.2
50°	1208.4	1204.7	1201.0	1182.6	1193.7	1197.3	1182.6	1175.2	1160.5	1142.1	1097.9
52.5°	1061.0	1057.4	1053.7	1035.2	1042.6	1046.3	1031.6	1016.8	998.4	983.7	928.4
55°	935.8	932.1	932.1	921.0	913.7	921.0	906.3	895.2	869.5	851.0	795.8
57.5°	828.9	828.9	821.6	810.5	814.2	814.2	799.5	784.7	762.6	740.5	696.3
60°	736.8	736.8	736.8	725.8	725.8	725.8	718.4	703.7	685.3	663.1	618.9
62.5°	663.1	663.1	659.5	648.4	652.1	652.1	644.7	630.0	611.6	596.8	552.6
65°	604.2	604.2	604.2	593.1	593.1	596.8	589.5	574.7	560.0	541.6	501.0
67.5°	530.5	526.8	526.8	519.5	523.1	526.8	519.5	508.4	490.0	478.9	442.1
70°	438.4	442.1	445.8	434.7	438.4	438.4	434.7	423.7	412.6	401.6	368.4
72.5°	357.4	357.4	353.7	350.0	350.0	353.7	346.3	335.3	327.9	320.5	294.7
75°	272.6	268.9	272.6	265.3	265.3	265.3	257.9	254.2	250.5	239.5	221.0
77.5°	198.9	195.3	195.3	187.9	191.6	191.6	187.9	180.5	173.2	169.5	154.7
80°	136.3	136.3	136.3	132.6	132.6	128.9	128.9	125.3	117.9	114.2	106.8
82.5°	92.1	92.1	92.1	88.4	88.4	88.4	84.7	81.1	77.4	73.7	66.3
85°	58.9	58.9	58.9	55.3	55.3	55.3	51.6	51.6	47.9	44.2	36.8
87.5°	33.2	33.2	33.2	29.5	29.5	29.5	29.5	29.5	25.8	22.1	18.4
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°	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6
2.5°	3838.9	3787.3	3820.5	3820.5	3809.4	3838.9	3857.3	3872.0	3868.4	3835.2	3831.5
5°	3809.4	3765.2	3802.0	3805.7	3794.7	3835.2	3861.0	3879.4	3883.1	3853.6	3857.3
7.5°	3787.3	3750.5	3798.4	3813.1	3809.4	3846.3	3875.7	3905.2	3919.9	3897.8	3901.5
10°	3776.3	3746.8	3798.4	3820.5	3824.2	3864.7	3908.9	3949.4	3967.8	3953.1	3964.1
12.5°	3761.5	3743.1	3802.0	3835.2	3849.9	3890.5	3945.7	3993.6	4023.1	4015.7	4037.8
15°	3746.8	3732.0	3802.0	3849.9	3868.4	3905.2	3967.8	4037.8	4071.0	4067.3	4096.8
17.5°	3709.9	3706.3	3779.9	3831.5	3857.3	3901.5	3960.5	4045.2	4078.4	4085.7	4122.6
20°	3651.0	3651.0	3732.0	3787.3	3816.8	3857.3	3931.0	4012.0	4052.6	4059.9	4100.5
22.5°	3569.9	3577.3	3654.7	3709.9	3754.2	3783.6	3861.0	3945.7	3982.6	3993.6	4037.8
25°	3463.1	3470.5	3544.2	3599.4	3647.3	3680.5	3754.2	3831.5	3875.7	3886.8	3919.9
27.5°	3323.1	3337.8	3407.8	3463.1	3503.6	3525.7	3603.1	3684.2	3717.3	3728.4	3761.5
30°	3161.0	3164.7	3234.7	3282.6	3323.1	3341.5	3407.8	3492.6	3518.4	3529.4	3577.3
32.5°	2962.1	2958.4	3024.7	3068.9	3102.1	3124.2	3194.2	3249.4	3275.2	3293.6	3319.4
35°	2722.6	2718.9	2766.8	2818.4	2844.2	2851.5	2921.5	2980.5	2995.2	3010.0	3043.1
37.5°	2453.6	2453.6	2494.2	2520.0	2549.4	2560.5	2593.6	2660.0	2685.7	2682.1	2707.9
40°	2170.0	2155.2	2184.7	2210.5	2217.9	2221.5	2254.7	2306.3	2324.7	2324.7	2343.1
42.5°	1871.5	1849.4	1853.1	1867.9	1875.2	1849.4	1871.5	1904.7	1893.7	1908.4	1912.1
45°	1554.7	1521.6	1506.8	1473.7	1481.0	1455.2	1440.5	1447.9	1444.2	1407.3	1414.7
47.5°	1296.8	1237.9	1212.1	1164.2	1153.1	1123.7	1105.2	1072.1	1042.6	1042.6	1024.2
50°	1079.5	1020.5	968.9	913.7	895.2	869.5	828.9	784.7	762.6	740.5	722.1
52.5°	906.3	843.7	781.0	722.1	696.3	663.1	607.9	563.7	523.1	501.0	478.9
55°	766.3	696.3	630.0	567.4	534.2	501.0	445.8	394.2	346.3	316.8	298.4
57.5°	659.5	593.1	523.1	456.8	427.4	390.5	331.6	276.3	232.1	198.9	180.5
60°	582.1	515.8	453.2	383.2	353.7	316.8	254.2	202.6	158.4	128.9	106.8
62.5°	515.8	456.8	390.5	327.9	298.4	261.6	202.6	151.1	110.5	81.1	62.6
65°	467.9	408.9	353.7	291.0	265.3	228.4	173.2	125.3	88.4	62.6	44.2
67.5°	412.6	361.0	305.8	254.2	228.4	198.9	147.4	106.8	73.7	51.6	36.8
70°	346.3	305.8	257.9	210.0	191.6	165.8	121.6	88.4	58.9	40.5	29.5
72.5°	276.3	243.2	206.3	169.5	154.7	128.9	99.5	70.0	44.2	29.5	22.1
75°	210.0	184.2	154.7	128.9	114.2	99.5	73.7	51.6	33.2	22.1	14.7
77.5°	143.7	132.6	110.5	88.4	81.1	70.0	47.9	33.2	22.1	14.7	7.4
80°	99.5	88.4	73.7	58.9	51.6	44.2	29.5	22.1	11.1	7.4	3.7
82.5°	62.6	51.6	44.2	36.8	33.2	25.8	18.4	11.1	7.4	3.7	3.7
85°	33.2	29.5	25.8	18.4	18.4	14.7	11.1	7.4	3.7	0.0	0.0
87.5°	18.4	14.7	11.1	7.4	7.4	3.7	3.7	3.7	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°	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6
2.5°	3875.7	3875.7	3872.0	3916.3	3864.7	3916.3	3890.5	3916.3	3879.4	3875.7	3879.4
5°	3905.2	3916.3	3919.9	3960.5	3912.6	3975.2	3953.1	3975.2	3949.4	3956.8	3967.8
7.5°	3964.1	3982.6	3978.9	4030.5	3982.6	4052.6	4037.8	4071.0	4045.2	4052.6	4067.3
10°	4030.5	4052.6	4056.3	4107.8	4063.6	4148.4	4129.9	4166.8	4144.7	4155.7	4174.1
12.5°	4107.8	4133.6	4137.3	4196.3	4148.4	4236.8	4225.7	4262.6	4244.1	4255.2	4277.3
15°	4166.8	4203.6	4211.0	4269.9	4218.4	4310.5	4303.1	4351.0	4321.5	4339.9	4358.4
17.5°	4196.3	4229.4	4244.1	4299.4	4255.2	4347.3	4339.9	4380.5	4358.4	4376.8	4398.9
20°	4177.8	4218.4	4229.4	4284.7	4240.5	4332.6	4321.5	4362.0	4339.9	4354.7	4376.8
22.5°	4111.5	4152.0	4166.8	4218.4	4177.8	4262.6	4258.9	4295.7	4266.2	4284.7	4303.1
25°	3993.6	4037.8	4045.2	4093.1	4048.9	4137.3	4129.9	4170.5	4148.4	4159.4	4185.2
27.5°	3824.2	3875.7	3886.8	3927.3	3894.1	3967.8	3967.8	4001.0	3975.2	3975.2	4001.0
30°	3621.5	3673.1	3680.5	3713.6	3684.2	3750.5	3754.2	3787.3	3746.8	3768.9	3772.6
32.5°	3374.7	3407.8	3429.9	3459.4	3415.2	3499.9	3488.9	3514.7	3492.6	3492.6	3511.0
35°	3076.3	3116.8	3127.8	3164.7	3127.8	3194.2	3194.2	3208.9	3186.8	3186.8	3216.3
37.5°	2752.1	2781.5	2785.2	2822.1	2792.6	2847.9	2844.2	2855.2	2833.1	2847.9	2847.9
40°	2372.6	2394.7	2402.1	2420.5	2416.8	2457.3	2453.6	2461.0	2450.0	2453.6	2461.0
42.5°	1930.5	1960.0	1974.7	1989.4	1967.3	2022.6	2011.5	2022.6	2018.9	2022.6	2033.7
45°	1422.1	1444.2	1455.2	1458.9	1451.6	1484.7	1510.5	1488.4	1492.1	1484.7	1499.5
47.5°	1027.9	1031.6	1024.2	1046.3	1027.9	1042.6	1050.0	1053.7	1031.6	1027.9	1042.6
50°	703.7	722.1	696.3	707.4	703.7	718.4	711.0	714.7	692.6	703.7	696.3
52.5°	467.9	464.2	456.8	460.5	453.2	453.2	453.2	460.5	445.8	438.4	431.0
55°	283.7	276.3	261.6	257.9	257.9	261.6	254.2	246.8	246.8	243.2	243.2
57.5°	165.8	154.7	147.4	143.7	136.3	132.6	128.9	128.9	121.6	121.6	121.6
60°	92.1	81.1	73.7	66.3	66.3	62.6	58.9	55.3	55.3	55.3	51.6
62.5°	47.9	40.5	33.2	29.5	29.5	25.8	22.1	22.1	22.1	22.1	18.4
65°	33.2	25.8	22.1	18.4	18.4	14.7	14.7	14.7	14.7	14.7	14.7
67.5°	25.8	22.1	18.4	14.7	14.7	14.7	11.1	11.1	11.1	11.1	11.1
70°	22.1	14.7	14.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	14.7	14.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
75°	11.1	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	3.7	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: P252197

CATALOG NUMBER: LD6B50D010TE EU6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6	3853.6
2.5°	3912.6	3908.9	3912.6	3919.9	3905.2	3949.4	3927.3	3949.4
5°	3997.3	4001.0	4004.7	4015.7	3997.3	4052.6	4023.1	4056.3
7.5°	4107.8	4111.5	4115.2	4126.3	4115.2	4170.5	4137.3	4166.8
10°	4222.0	4229.4	4229.4	4247.8	4236.8	4288.4	4266.2	4303.1
12.5°	4328.9	4336.2	4343.6	4354.7	4347.3	4402.6	4384.1	4413.6
15°	4413.6	4428.4	4432.0	4446.8	4439.4	4498.4	4476.2	4505.7
17.5°	4454.1	4468.9	4468.9	4487.3	4479.9	4542.6	4513.1	4546.2
20°	4432.0	4443.1	4446.8	4465.2	4457.8	4520.5	4491.0	4531.5
22.5°	4362.0	4365.7	4369.4	4387.8	4384.1	4439.4	4413.6	4439.4
25°	4233.1	4244.1	4240.5	4255.2	4255.2	4299.4	4269.9	4292.0
27.5°	4048.9	4059.9	4059.9	4078.4	4063.6	4107.8	4078.4	4111.5
30°	3824.2	3835.2	3827.8	3842.6	3827.8	3872.0	3849.9	3861.0
32.5°	3555.2	3555.2	3558.9	3562.6	3555.2	3595.7	3573.6	3595.7
35°	3234.7	3242.1	3245.7	3249.4	3242.1	3271.5	3245.7	3260.5
37.5°	2873.6	2892.1	2888.4	2892.1	2881.0	2917.8	2895.7	2903.1
40°	2486.8	2486.8	2483.1	2490.5	2479.4	2508.9	2494.2	2501.5
42.5°	2037.3	2048.4	2033.7	2052.1	2022.6	2063.1	2048.4	2037.3
45°	1528.9	1514.2	1510.5	1514.2	1503.1	1506.8	1517.9	1510.5
47.5°	1042.6	1042.6	1035.2	1024.2	1038.9	1042.6	1027.9	1027.9
50°	700.0	700.0	692.6	688.9	696.3	692.6	685.3	696.3
52.5°	445.8	431.0	431.0	438.4	431.0	423.7	434.7	427.4
55°	243.2	235.8	235.8	243.2	235.8	235.8	232.1	239.5
57.5°	117.9	121.6	117.9	117.9	117.9	117.9	114.2	117.9
60°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
62.5°	22.1	22.1	18.4	18.4	18.4	18.4	18.4	18.4
65°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
67.5°	11.1	11.1	11.1	11.1	11.1	14.7	11.1	11.1
70°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	11.1	11.1	14.7	14.7	14.7	14.7	14.7	14.7
75°	7.4	7.4	7.4	3.7	3.7	3.7	3.7	3.7
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)