

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: P252206

Luminaire Tested: **LD6B60D010TE EU6B60708027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252206
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 EU6B60708027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7272.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

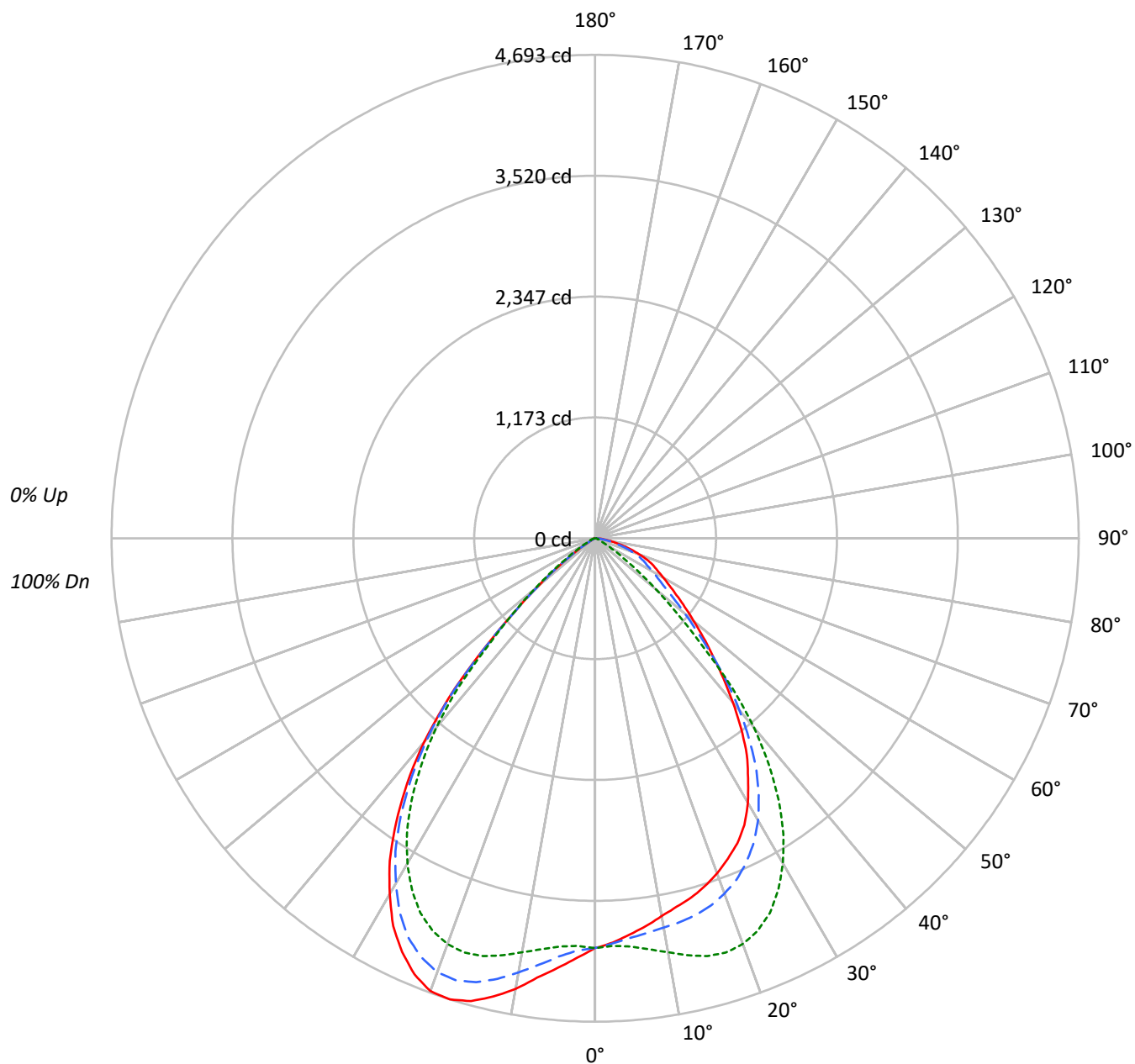
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	259553	259553	259553
5°	252824	260545	274239
10°	246671	270354	294296
15°	243786	283609	314179
20°	240296	290992	324796
25°	235182	288847	318966
30°	223492	274492	300279
35°	204470	247486	268082
40°	176863	204389	219940
45°	149136	134051	143877
50°	126617	77594	72956
55°	109888	37206	28117
60°	99257	17367	6942
65°	96298	9988	2346
70°	86334	7973	2175
75°	70958	5747	958
80°	52862	2855	0
85°	45587	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.3	5.3
10°-20°	1171.1	16.1
20°-30°	1789.4	24.6
30°-40°	1871.5	25.7
40°-50°	1214.1	16.7
50°-60°	482.0	6.6
60°-70°	228.7	3.1
70°-80°	108.7	1.5
80°-90°	22.2	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°	3344.8	46.0
0°-40°	5216.3	71.7
0°-60°	6912.4	95.1
0°-90°	7272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7272.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3978	3978	3978	3978	3978	
5°	3860	3895	3978	4077	4188	365
15°	3609	3784	4199	4461	4652	1017
25°	3267	3472	4013	4283	4431	1496
35°	2567	2723	3107	3290	3366	1588
45°	1616	1601	1453	1540	1559	1258
55°	966	822	327	255	247	875
65°	624	517	65	15	15	609
75°	282	228	23	8	4	304
85°	61	38	0	0	0	71
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°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	3928.9	3936.5	3894.7	3883.3	3913.7	3925.1	3928.9	3917.5	3921.3	3936.5	3936.5
5°	3860.5	3868.1	3830.0	3818.6	3849.0	3856.6	3868.1	3864.3	3875.7	3898.5	3894.7
7.5°	3795.8	3807.2	3765.4	3750.2	3788.2	3807.2	3814.8	3814.8	3830.0	3860.5	3864.3
10°	3723.5	3738.7	3700.7	3693.1	3734.9	3754.0	3757.8	3765.4	3788.2	3830.0	3837.6
12.5°	3662.7	3677.9	3651.3	3639.9	3685.5	3704.5	3712.1	3727.3	3754.0	3807.2	3814.8
15°	3609.4	3620.8	3590.4	3582.8	3628.4	3651.3	3655.1	3677.9	3712.1	3773.0	3784.4
17.5°	3541.0	3548.6	3525.8	3518.1	3563.8	3586.6	3590.4	3617.0	3658.9	3719.7	3738.7
20°	3461.1	3468.7	3445.9	3438.3	3483.9	3510.5	3514.3	3537.2	3586.6	3651.3	3670.3
22.5°	3366.0	3381.2	3354.6	3347.0	3392.6	3415.5	3426.9	3445.9	3495.3	3560.0	3586.6
25°	3267.1	3267.1	3248.1	3244.3	3286.1	3312.8	3309.0	3335.6	3385.0	3449.7	3472.5
27.5°	3137.8	3134.0	3115.0	3111.2	3156.8	3179.6	3172.0	3198.7	3244.3	3309.0	3331.8
30°	2966.7	2974.3	2947.6	2940.0	2978.1	3016.1	3012.3	3038.9	3084.6	3145.4	3160.6
32.5°	2761.3	2768.9	2765.1	2753.7	2787.9	2806.9	2818.3	2837.3	2875.4	2940.0	2955.2
35°	2567.3	2555.9	2540.7	2540.7	2574.9	2605.3	2593.9	2616.7	2654.8	2719.4	2723.2
37.5°	2327.7	2323.9	2316.3	2308.7	2346.7	2354.3	2358.1	2373.3	2407.6	2460.8	2453.2
40°	2076.7	2080.5	2076.7	2061.4	2084.3	2114.7	2110.9	2118.5	2148.9	2187.0	2175.5
42.5°	1840.8	1840.8	1840.8	1825.6	1852.3	1867.5	1875.1	1871.3	1878.9	1913.1	1897.9
45°	1616.4	1620.2	1616.4	1612.6	1616.4	1624.1	1616.4	1612.6	1612.6	1624.1	1601.2
47.5°	1422.5	1422.5	1411.1	1399.7	1411.1	1414.9	1403.5	1392.0	1388.2	1384.4	1346.4
50°	1247.5	1243.7	1239.9	1220.9	1232.3	1236.1	1220.9	1213.3	1198.1	1179.1	1133.4
52.5°	1095.4	1091.6	1087.8	1068.8	1076.4	1080.2	1065.0	1049.7	1030.7	1015.5	958.5
55°	966.1	962.3	962.3	950.9	943.2	950.9	935.6	924.2	897.6	878.6	821.5
57.5°	855.8	855.8	848.2	836.7	840.6	840.6	825.3	810.1	787.3	764.5	718.8
60°	760.7	760.7	760.7	749.3	749.3	749.3	741.7	726.4	707.4	684.6	639.0
62.5°	684.6	684.6	680.8	669.4	673.2	673.2	665.6	650.4	631.4	616.2	570.5
65°	623.8	623.8	623.8	612.3	612.3	616.2	608.5	593.3	578.1	559.1	517.3
67.5°	547.7	543.9	543.9	536.3	540.1	543.9	536.3	524.9	505.9	494.4	456.4
70°	452.6	456.4	460.2	448.8	452.6	452.6	448.8	437.4	426.0	414.6	380.3
72.5°	368.9	368.9	365.1	361.3	361.3	365.1	357.5	346.1	338.5	330.9	304.3
75°	281.5	277.6	281.5	273.8	273.8	273.8	266.2	262.4	258.6	247.2	228.2
77.5°	205.4	201.6	201.6	194.0	197.8	197.8	194.0	186.4	178.8	175.0	159.7
80°	140.7	140.7	140.7	136.9	136.9	133.1	133.1	129.3	121.7	117.9	110.3
82.5°	95.1	95.1	95.1	91.3	91.3	91.3	87.5	83.7	79.9	76.1	68.5
85°	60.9	60.9	60.9	57.1	57.1	57.1	53.2	53.2	49.4	45.6	38.0
87.5°	34.2	34.2	34.2	30.4	30.4	30.4	30.4	30.4	26.6	22.8	19.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	3963.1	3909.9	3944.1	3944.1	3932.7	3963.1	3982.2	3997.4	3993.6	3959.3	3955.5
5°	3932.7	3887.1	3925.1	3928.9	3917.5	3959.3	3986.0	4005.0	4008.8	3978.4	3982.2
7.5°	3909.9	3871.9	3921.3	3936.5	3932.7	3970.8	4001.2	4031.6	4046.8	4024.0	4027.8
10°	3898.5	3868.1	3921.3	3944.1	3947.9	3989.8	4035.4	4077.2	4096.3	4081.0	4092.5
12.5°	3883.3	3864.3	3925.1	3959.3	3974.6	4016.4	4073.4	4122.9	4153.3	4145.7	4168.5
15°	3868.1	3852.8	3925.1	3974.6	3993.6	4031.6	4096.3	4168.5	4202.8	4199.0	4229.4
17.5°	3830.0	3826.2	3902.3	3955.5	3982.2	4027.8	4088.7	4176.1	4210.4	4218.0	4256.0
20°	3769.2	3769.2	3852.8	3909.9	3940.3	3982.2	4058.2	4141.9	4183.7	4191.3	4233.2
22.5°	3685.5	3693.1	3773.0	3830.0	3875.7	3906.1	3986.0	4073.4	4111.5	4122.9	4168.5
25°	3575.2	3582.8	3658.9	3715.9	3765.4	3799.6	3875.7	3955.5	4001.2	4012.6	4046.8
27.5°	3430.7	3445.9	3518.1	3575.2	3617.0	3639.9	3719.7	3803.4	3837.6	3849.0	3883.3
30°	3263.3	3267.1	3339.4	3388.8	3430.7	3449.7	3518.1	3605.6	3632.2	3643.7	3693.1
32.5°	3057.9	3054.1	3122.6	3168.2	3202.5	3225.3	3297.5	3354.6	3381.2	3400.2	3426.9
35°	2810.7	2806.9	2856.4	2909.6	2936.2	2943.8	3016.1	3077.0	3092.2	3107.4	3141.6
37.5°	2533.1	2533.1	2574.9	2601.5	2632.0	2643.4	2677.6	2746.1	2772.7	2768.9	2795.5
40°	2240.2	2225.0	2255.4	2282.0	2289.6	2293.5	2327.7	2380.9	2399.9	2399.9	2419.0
42.5°	1932.1	1909.3	1913.1	1928.3	1935.9	1909.3	1932.1	1966.4	1954.9	1970.2	1974.0
45°	1605.0	1570.8	1555.6	1521.4	1529.0	1502.3	1487.1	1494.7	1490.9	1452.9	1460.5
47.5°	1338.8	1277.9	1251.3	1201.9	1190.5	1160.0	1141.0	1106.8	1076.4	1076.4	1057.3
50°	1114.4	1053.5	1000.3	943.2	924.2	897.6	855.8	810.1	787.3	764.5	745.5
52.5°	935.6	871.0	806.3	745.5	718.8	684.6	627.6	581.9	540.1	517.3	494.4
55°	791.1	718.8	650.4	585.7	551.5	517.3	460.2	407.0	357.5	327.1	308.1
57.5°	680.8	612.3	540.1	471.6	441.2	403.2	342.3	285.3	239.6	205.4	186.4
60°	600.9	532.5	467.8	395.6	365.1	327.1	262.4	209.2	163.5	133.1	110.3
62.5°	532.5	471.6	403.2	338.5	308.1	270.0	209.2	155.9	114.1	83.7	64.7
65°	483.0	422.2	365.1	300.5	273.8	235.8	178.8	129.3	91.3	64.7	45.6
67.5°	426.0	372.7	315.7	262.4	235.8	205.4	152.1	110.3	76.1	53.2	38.0
70°	357.5	315.7	266.2	216.8	197.8	171.2	125.5	91.3	60.9	41.8	30.4
72.5°	285.3	251.0	213.0	175.0	159.7	133.1	102.7	72.3	45.6	30.4	22.8
75°	216.8	190.2	159.7	133.1	117.9	102.7	76.1	53.2	34.2	22.8	15.2
77.5°	148.3	136.9	114.1	91.3	83.7	72.3	49.4	34.2	22.8	15.2	7.6
80°	102.7	91.3	76.1	60.9	53.2	45.6	30.4	22.8	11.4	7.6	3.8
82.5°	64.7	53.2	45.6	38.0	34.2	26.6	19.0	11.4	7.6	3.8	3.8
85°	34.2	30.4	26.6	19.0	19.0	15.2	11.4	7.6	3.8	0.0	0.0
87.5°	19.0	15.2	11.4	7.6	7.6	3.8	3.8	3.8	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°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	4001.2	4001.2	3997.4	4043.0	3989.8	4043.0	4016.4	4043.0	4005.0	4001.2	4005.0
5°	4031.6	4043.0	4046.8	4088.7	4039.2	4103.9	4081.0	4103.9	4077.2	4084.9	4096.3
7.5°	4092.5	4111.5	4107.7	4160.9	4111.5	4183.7	4168.5	4202.8	4176.1	4183.7	4199.0
10°	4160.9	4183.7	4187.5	4240.8	4195.2	4282.6	4263.6	4301.6	4278.8	4290.2	4309.3
12.5°	4240.8	4267.4	4271.2	4332.1	4282.6	4373.9	4362.5	4400.5	4381.5	4392.9	4415.7
15°	4301.6	4339.7	4347.3	4408.1	4354.9	4450.0	4442.4	4491.8	4461.4	4480.4	4499.4
17.5°	4332.1	4366.3	4381.5	4438.6	4392.9	4488.0	4480.4	4522.2	4499.4	4518.4	4541.3
20°	4313.1	4354.9	4366.3	4423.4	4377.7	4472.8	4461.4	4503.2	4480.4	4495.6	4518.4
22.5°	4244.6	4286.4	4301.6	4354.9	4313.1	4400.5	4396.7	4434.8	4404.3	4423.4	4442.4
25°	4122.9	4168.5	4176.1	4225.6	4179.9	4271.2	4263.6	4305.5	4282.6	4294.0	4320.7
27.5°	3947.9	4001.2	4012.6	4054.4	4020.2	4096.3	4096.3	4130.5	4103.9	4103.9	4130.5
30°	3738.7	3792.0	3799.6	3833.8	3803.4	3871.9	3875.7	3909.9	3868.1	3890.9	3894.7
32.5°	3483.9	3518.1	3541.0	3571.4	3525.8	3613.2	3601.8	3628.4	3605.6	3605.6	3624.6
35°	3175.8	3217.7	3229.1	3267.1	3229.1	3297.5	3297.5	3312.8	3289.9	3289.9	3320.4
37.5°	2841.1	2871.6	2875.4	2913.4	2883.0	2940.0	2936.2	2947.6	2924.8	2940.0	2940.0
40°	2449.4	2472.2	2479.8	2498.8	2495.0	2536.9	2533.1	2540.7	2529.3	2533.1	2540.7
42.5°	1993.0	2023.4	2038.6	2053.8	2031.0	2088.1	2076.7	2088.1	2084.3	2088.1	2099.5
45°	1468.1	1490.9	1502.3	1506.1	1498.5	1532.8	1559.4	1536.6	1540.4	1532.8	1548.0
47.5°	1061.1	1065.0	1057.3	1080.2	1061.1	1076.4	1084.0	1087.8	1065.0	1061.1	1076.4
50°	726.4	745.5	718.8	730.3	726.4	741.7	734.1	737.9	715.0	726.4	718.8
52.5°	483.0	479.2	471.6	475.4	467.8	467.8	467.8	475.4	460.2	452.6	445.0
55°	292.9	285.3	270.0	266.2	266.2	270.0	262.4	254.8	254.8	251.0	251.0
57.5°	171.2	159.7	152.1	148.3	140.7	136.9	133.1	133.1	125.5	125.5	125.5
60°	95.1	83.7	76.1	68.5	68.5	64.7	60.9	57.1	57.1	57.1	53.2
62.5°	49.4	41.8	34.2	30.4	30.4	26.6	22.8	22.8	22.8	22.8	19.0
65°	34.2	26.6	22.8	19.0	19.0	15.2	15.2	15.2	15.2	15.2	15.2
67.5°	26.6	22.8	19.0	15.2	15.2	15.2	11.4	11.4	11.4	11.4	11.4
70°	22.8	15.2	15.2	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	15.2	15.2	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
75°	11.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
80°	3.8	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: P252206

CATALOG NUMBER: LD6B60D010TE EU6B60708027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4	3978.4
2.5°	4039.2	4035.4	4039.2	4046.8	4031.6	4077.2	4054.4	4077.2
5°	4126.7	4130.5	4134.3	4145.7	4126.7	4183.7	4153.3	4187.5
7.5°	4240.8	4244.6	4248.4	4259.8	4248.4	4305.5	4271.2	4301.6
10°	4358.7	4366.3	4366.3	4385.3	4373.9	4427.2	4404.3	4442.4
12.5°	4469.0	4476.6	4484.2	4495.6	4488.0	4545.1	4526.0	4556.5
15°	4556.5	4571.7	4575.5	4590.7	4583.1	4644.0	4621.1	4651.6
17.5°	4598.3	4613.5	4613.5	4632.5	4624.9	4689.6	4659.2	4693.4
20°	4575.5	4586.9	4590.7	4609.7	4602.1	4666.8	4636.3	4678.2
22.5°	4503.2	4507.0	4510.8	4529.9	4526.0	4583.1	4556.5	4583.1
25°	4370.1	4381.5	4377.7	4392.9	4392.9	4438.6	4408.1	4431.0
27.5°	4179.9	4191.3	4191.3	4210.4	4195.2	4240.8	4210.4	4244.6
30°	3947.9	3959.3	3951.7	3966.9	3951.7	3997.4	3974.6	3986.0
32.5°	3670.3	3670.3	3674.1	3677.9	3670.3	3712.1	3689.3	3712.1
35°	3339.4	3347.0	3350.8	3354.6	3347.0	3377.4	3350.8	3366.0
37.5°	2966.7	2985.7	2981.9	2985.7	2974.3	3012.3	2989.5	2997.1
40°	2567.3	2567.3	2563.5	2571.1	2559.7	2590.1	2574.9	2582.5
42.5°	2103.3	2114.7	2099.5	2118.5	2088.1	2129.9	2114.7	2103.3
45°	1578.4	1563.2	1559.4	1563.2	1551.8	1555.6	1567.0	1559.4
47.5°	1076.4	1076.4	1068.8	1057.3	1072.6	1076.4	1061.1	1061.1
50°	722.6	722.6	715.0	711.2	718.8	715.0	707.4	718.8
52.5°	460.2	445.0	445.0	452.6	445.0	437.4	448.8	441.2
55°	251.0	243.4	243.4	251.0	243.4	243.4	239.6	247.2
57.5°	121.7	125.5	121.7	121.7	121.7	121.7	117.9	121.7
60°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
62.5°	22.8	22.8	19.0	19.0	19.0	19.0	19.0	19.0
65°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
67.5°	11.4	11.4	11.4	11.4	11.4	15.2	11.4	11.4
70°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	11.4	11.4	15.2	15.2	15.2	15.2	15.2	15.2
75°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	3.8
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)