

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: P252314

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

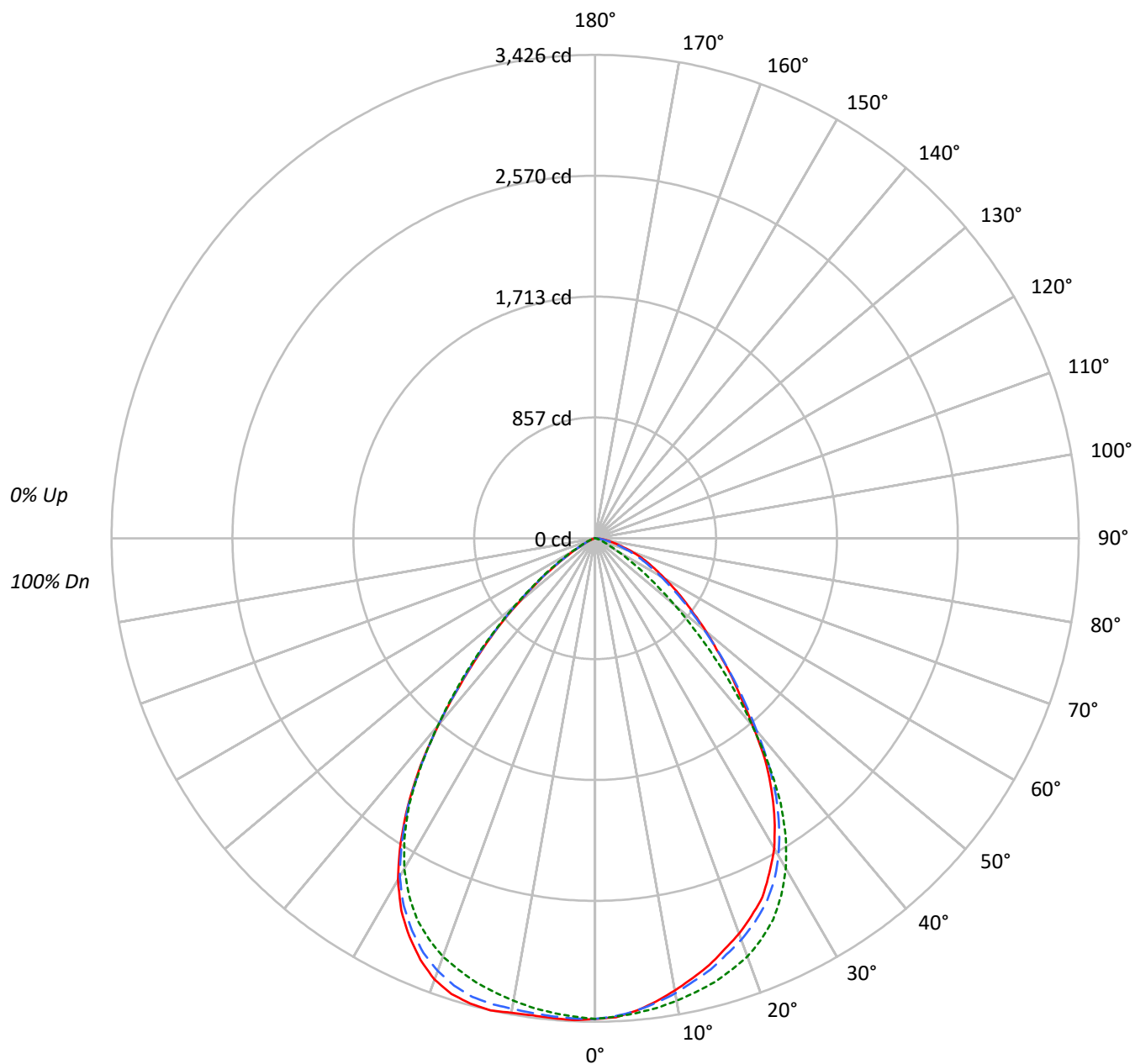
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64		
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58		
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	222203	222203	222203
5°	220085	221166	223589
10°	215548	220450	226174
15°	211427	220039	230595
20°	207047	219044	231034
25°	201940	214674	224147
30°	191196	203588	210406
35°	173632	182481	184113
40°	148188	147481	146783
45°	124483	110440	107026
50°	103953	74732	70976
55°	87492	45850	41642
60°	74061	24152	20929
65°	64142	12705	10158
70°	53353	7840	5494
75°	39399	5193	3100
80°	30921	3081	1540
85°	24627	3069	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	5.6
10°-20°	919.1	16.1
20°-30°	1357.2	23.8
30°-40°	1398.7	24.5
40°-50°	966.0	16.9
50°-60°	476.2	8.3
60°-70°	192.9	3.4
70°-80°	68.8	1.2
80°-90°	14.2	0.2
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°	2597.2	45.5
0°-40°	3995.9	69.9
0°-60°	5438.1	95.2
0°-90°	5714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5714.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3406	3406	3406	3406	3406	
5°	3361	3361	3377	3402	3414	317
15°	3130	3163	3258	3365	3414	881
25°	2805	2859	2982	3069	3114	1282
35°	2180	2234	2291	2304	2312	1351
45°	1349	1357	1197	1180	1160	1043
55°	769	740	403	378	366	695
65°	416	374	82	66	66	413
75°	156	132	21	12	12	175
85°	33	25	4	0	0	40
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°	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9
2.5°	3397.7	3385.3	3393.6	3377.1	3397.7	3377.1	3381.2	3385.3	3381.2	3385.3	3389.4
5°	3360.6	3348.3	3360.6	3340.1	3360.6	3348.3	3348.3	3352.4	3352.4	3356.5	3360.6
7.5°	3311.3	3298.9	3311.3	3290.7	3315.4	3303.1	3303.1	3311.3	3307.2	3311.3	3319.5
10°	3253.7	3237.2	3249.6	3237.2	3261.9	3245.5	3253.7	3253.7	3253.7	3266.0	3274.3
12.5°	3192.0	3175.5	3192.0	3171.4	3196.1	3183.8	3187.9	3200.2	3204.3	3212.6	3216.7
15°	3130.3	3109.7	3118.0	3105.6	3130.3	3118.0	3122.1	3138.5	3138.5	3150.9	3163.2
17.5°	3052.1	3035.7	3052.1	3035.7	3056.3	3048.0	3056.3	3068.6	3068.6	3080.9	3093.3
20°	2982.2	2965.8	2978.1	2965.8	2990.4	2978.1	2982.2	2998.7	3002.8	3015.1	3027.5
22.5°	2895.8	2883.5	2891.7	2879.4	2904.1	2895.8	2899.9	2916.4	2920.5	2928.7	2949.3
25°	2805.3	2780.7	2793.0	2784.8	2809.5	2797.1	2805.3	2821.8	2830.0	2842.4	2858.8
27.5°	2673.7	2661.4	2669.6	2669.6	2690.2	2677.8	2681.9	2698.4	2710.7	2723.1	2743.6
30°	2538.0	2517.4	2525.6	2529.7	2546.2	2538.0	2546.2	2562.6	2566.8	2583.2	2599.7
32.5°	2365.2	2357.0	2373.4	2365.2	2373.4	2373.4	2377.5	2389.9	2398.1	2406.3	2426.9
35°	2180.1	2163.6	2180.1	2171.9	2192.4	2180.1	2192.4	2204.8	2204.8	2221.2	2233.6
37.5°	1978.5	1958.0	1966.2	1966.2	1974.4	1970.3	1970.3	1990.9	1995.0	2007.3	2019.7
40°	1740.0	1731.7	1748.2	1744.1	1748.2	1748.2	1752.3	1764.6	1772.9	1777.0	1781.1
42.5°	1526.1	1530.2	1534.3	1534.3	1534.3	1534.3	1534.3	1550.8	1546.6	1559.0	1563.1
45°	1349.2	1332.7	1341.0	1336.9	1349.2	1336.9	1349.2	1361.5	1353.3	1365.6	1357.4
47.5°	1168.2	1168.2	1168.2	1164.1	1172.3	1168.2	1176.4	1180.5	1180.5	1180.5	1176.4
50°	1024.2	1011.9	1016.0	1016.0	1020.1	1016.0	1024.2	1028.4	1028.4	1020.1	1003.7
52.5°	884.4	880.3	880.3	888.5	888.5	884.4	884.4	884.4	884.4	872.0	863.8
55°	769.2	761.0	765.1	765.1	765.1	765.1	769.2	765.1	765.1	752.8	740.4
57.5°	666.4	658.1	658.1	658.1	662.3	658.1	658.1	658.1	654.0	641.7	625.2
60°	567.6	563.5	567.6	567.6	571.8	567.6	567.6	567.6	559.4	547.1	530.6
62.5°	485.4	485.4	485.4	489.5	489.5	485.4	485.4	481.3	477.2	460.7	444.2
65°	415.5	411.3	415.5	415.5	419.6	419.6	415.5	411.3	407.2	390.8	374.3
67.5°	345.5	341.4	345.5	345.5	349.6	345.5	345.5	345.5	333.2	325.0	308.5
70°	279.7	275.6	275.6	275.6	279.7	271.5	275.6	275.6	267.4	255.0	238.6
72.5°	213.9	213.9	213.9	213.9	213.9	213.9	209.8	209.8	201.6	189.2	181.0
75°	156.3	156.3	160.4	160.4	156.3	156.3	156.3	152.2	148.1	139.9	131.6
77.5°	115.2	115.2	115.2	115.2	111.1	111.1	111.1	106.9	102.8	98.7	90.5
80°	82.3	82.3	82.3	78.2	82.3	78.2	78.2	78.2	69.9	65.8	61.7
82.5°	57.6	53.5	53.5	53.5	53.5	53.5	53.5	49.4	49.4	45.2	41.1
85°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	28.8	24.7	24.7
87.5°	16.5	20.6	20.6	20.6	20.6	20.6	20.6	16.5	16.5	16.5	12.3
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°	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9
2.5°	3389.4	3389.4	3397.7	3385.3	3405.9	3393.6	3389.4	3410.0	3397.7	3393.6	3401.8
5°	3360.6	3364.8	3368.9	3360.6	3381.2	3368.9	3368.9	3389.4	3381.2	3377.1	3389.4
7.5°	3323.6	3327.7	3336.0	3331.9	3348.3	3340.1	3344.2	3364.8	3356.5	3356.5	3368.9
10°	3278.4	3286.6	3294.8	3294.8	3315.4	3307.2	3307.2	3331.9	3323.6	3327.7	3344.2
12.5°	3224.9	3237.2	3249.6	3253.7	3274.3	3261.9	3266.0	3294.8	3290.7	3294.8	3311.3
15°	3167.3	3183.8	3196.1	3196.1	3220.8	3208.5	3220.8	3249.6	3241.4	3257.8	3278.4
17.5°	3101.5	3118.0	3134.4	3138.5	3163.2	3155.0	3171.4	3200.2	3200.2	3208.5	3233.1
20°	3039.8	3060.4	3068.6	3080.9	3105.6	3101.5	3109.7	3142.6	3142.6	3155.0	3179.7
22.5°	2957.5	2978.1	2994.6	3006.9	3027.5	3027.5	3039.8	3068.6	3068.6	3076.8	3101.5
25°	2867.0	2891.7	2904.1	2916.4	2937.0	2932.9	2945.2	2969.9	2974.0	2982.2	3006.9
27.5°	2751.9	2772.4	2788.9	2797.1	2825.9	2809.5	2821.8	2850.6	2846.5	2854.7	2875.3
30°	2607.9	2628.5	2644.9	2644.9	2669.6	2669.6	2681.9	2694.3	2694.3	2702.5	2719.0
32.5°	2439.2	2463.9	2463.9	2476.3	2492.7	2476.3	2492.7	2509.2	2500.9	2513.3	2525.6
35°	2245.9	2258.3	2262.4	2262.4	2274.7	2270.6	2266.5	2278.8	2270.6	2291.2	2303.5
37.5°	2011.5	2027.9	2019.7	2027.9	2023.8	2011.5	2011.5	2032.0	2015.6	2019.7	2032.0
40°	1785.2	1785.2	1781.1	1760.5	1764.6	1752.3	1748.2	1752.3	1735.9	1731.7	1748.2
42.5°	1550.8	1546.6	1534.3	1505.5	1509.6	1489.1	1472.6	1472.6	1464.4	1460.3	1464.4
45°	1341.0	1328.6	1308.1	1275.2	1266.9	1250.5	1217.6	1209.3	1197.0	1197.0	1201.1
47.5°	1147.6	1131.2	1098.3	1061.3	1040.7	1020.1	987.2	974.9	954.3	946.1	954.3
50°	987.2	958.4	917.3	863.8	843.2	818.6	785.7	765.1	744.5	736.3	732.2
52.5°	839.1	798.0	756.9	691.1	674.6	649.9	604.7	584.1	563.5	547.1	547.1
55°	711.6	674.6	617.0	555.3	530.6	505.9	460.7	431.9	411.3	403.1	394.9
57.5°	596.4	555.3	501.8	436.0	411.3	386.7	341.4	312.6	292.1	279.7	271.5
60°	501.8	456.6	403.1	345.5	316.7	292.1	246.8	218.0	197.4	185.1	176.9
62.5°	411.3	374.3	320.8	267.4	242.7	218.0	181.0	152.2	131.6	123.4	111.1
65°	345.5	308.5	259.1	213.9	193.3	168.6	135.7	111.1	94.6	82.3	74.0
67.5°	279.7	250.9	209.8	168.6	148.1	131.6	102.8	82.3	65.8	57.6	53.5
70°	222.1	193.3	160.4	127.5	115.2	98.7	78.2	57.6	49.4	41.1	37.0
72.5°	164.5	144.0	119.3	94.6	82.3	74.0	53.5	45.2	32.9	28.8	24.7
75°	119.3	102.8	86.4	65.8	57.6	53.5	41.1	28.8	24.7	20.6	16.5
77.5°	82.3	74.0	57.6	45.2	41.1	37.0	28.8	20.6	16.5	12.3	12.3
80°	53.5	45.2	37.0	28.8	28.8	24.7	16.5	12.3	12.3	8.2	8.2
82.5°	32.9	28.8	24.7	20.6	16.5	16.5	12.3	8.2	8.2	4.1	4.1
85°	20.6	16.5	12.3	12.3	8.2	8.2	8.2	4.1	4.1	4.1	4.1
87.5°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9
2.5°	3401.8	3401.8	3410.0	3397.7	3405.9	3405.9	3414.1	3397.7	3405.9	3410.0	3418.2
5°	3385.3	3389.4	3397.7	3393.6	3397.7	3397.7	3405.9	3385.3	3401.8	3401.8	3414.1
7.5°	3368.9	3368.9	3377.1	3373.0	3381.2	3385.3	3393.6	3377.1	3393.6	3393.6	3405.9
10°	3348.3	3348.3	3360.6	3356.5	3368.9	3373.0	3385.3	3368.9	3385.3	3389.4	3401.8
12.5°	3319.5	3323.6	3336.0	3336.0	3348.3	3356.5	3368.9	3360.6	3381.2	3385.3	3401.8
15°	3286.6	3294.8	3311.3	3307.2	3319.5	3331.9	3348.3	3336.0	3364.8	3373.0	3389.4
17.5°	3245.5	3253.7	3266.0	3266.0	3278.4	3286.6	3307.2	3298.9	3323.6	3327.7	3348.3
20°	3183.8	3196.1	3212.6	3208.5	3220.8	3229.0	3245.5	3237.2	3261.9	3270.2	3290.7
22.5°	3109.7	3118.0	3130.3	3130.3	3142.6	3150.9	3167.3	3155.0	3179.7	3183.8	3200.2
25°	3011.0	3019.2	3027.5	3031.6	3043.9	3048.0	3056.3	3048.0	3068.6	3072.7	3093.3
27.5°	2883.5	2887.6	2899.9	2899.9	2908.2	2912.3	2924.6	2908.2	2937.0	2937.0	2949.3
30°	2731.3	2727.2	2743.6	2735.4	2743.6	2743.6	2756.0	2747.8	2768.3	2760.1	2772.4
32.5°	2529.7	2538.0	2538.0	2529.7	2546.2	2542.1	2542.1	2533.9	2546.2	2550.3	2558.5
35°	2295.3	2307.6	2307.6	2311.7	2315.8	2303.5	2307.6	2282.9	2303.5	2307.6	2311.7
37.5°	2040.2	2027.9	2036.1	2023.8	2044.4	2019.7	2019.7	2003.2	2019.7	2019.7	2023.8
40°	1748.2	1744.1	1752.3	1744.1	1740.0	1735.9	1727.6	1715.3	1731.7	1723.5	1735.9
42.5°	1472.6	1468.5	1468.5	1460.3	1456.1	1456.1	1447.9	1439.7	1435.6	1435.6	1456.1
45°	1188.8	1197.0	1188.8	1184.7	1192.9	1184.7	1188.8	1172.3	1180.5	1172.3	1180.5
47.5°	950.2	954.3	946.1	937.9	950.2	937.9	937.9	925.5	942.0	942.0	933.7
50°	736.3	732.2	724.0	732.2	728.1	728.1	728.1	715.7	724.0	711.6	719.8
52.5°	543.0	538.9	538.9	534.7	538.9	534.7	534.7	530.6	530.6	526.5	530.6
55°	394.9	390.8	382.5	382.5	382.5	386.7	382.5	378.4	378.4	374.3	378.4
57.5°	267.4	259.1	259.1	259.1	259.1	255.0	255.0	250.9	255.0	250.9	255.0
60°	172.8	172.8	164.5	164.5	164.5	164.5	164.5	160.4	164.5	164.5	164.5
62.5°	106.9	106.9	102.8	98.7	102.8	98.7	98.7	98.7	102.8	98.7	102.8
65°	69.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
67.5°	49.4	45.2	45.2	45.2	45.2	45.2	45.2	41.1	45.2	45.2	45.2
70°	32.9	32.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
72.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
75°	16.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	12.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	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	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252314

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9	3405.9
2.5°	3405.9	3410.0	3401.8	3405.9	3397.7	3405.9	3410.0	3418.2
5°	3397.7	3401.8	3393.6	3401.8	3393.6	3401.8	3405.9	3414.1
7.5°	3389.4	3397.7	3389.4	3397.7	3389.4	3397.7	3401.8	3410.0
10°	3389.4	3401.8	3393.6	3405.9	3393.6	3401.8	3410.0	3414.1
12.5°	3389.4	3401.8	3397.7	3405.9	3401.8	3410.0	3418.2	3426.5
15°	3381.2	3393.6	3385.3	3397.7	3393.6	3397.7	3414.1	3414.1
17.5°	3336.0	3348.3	3348.3	3356.5	3356.5	3368.9	3377.1	3385.3
20°	3278.4	3290.7	3286.6	3298.9	3298.9	3311.3	3319.5	3327.7
22.5°	3192.0	3208.5	3204.3	3216.7	3212.6	3220.8	3237.2	3233.1
25°	3080.9	3101.5	3097.4	3105.6	3101.5	3101.5	3109.7	3113.8
27.5°	2945.2	2957.5	2953.4	2961.6	2953.4	2961.6	2969.9	2974.0
30°	2768.3	2776.5	2772.4	2776.5	2772.4	2780.7	2784.8	2793.0
32.5°	2554.4	2566.8	2554.4	2562.6	2558.5	2558.5	2575.0	2566.8
35°	2299.4	2303.5	2307.6	2307.6	2299.4	2303.5	2311.7	2311.7
37.5°	2015.6	2036.1	2011.5	2023.8	2019.7	2019.7	2019.7	2032.0
40°	1719.4	1723.5	1715.3	1715.3	1715.3	1711.2	1727.6	1723.5
42.5°	1439.7	1443.8	1439.7	1427.3	1431.5	1431.5	1443.8	1427.3
45°	1168.2	1176.4	1172.3	1172.3	1164.1	1164.1	1168.2	1160.0
47.5°	925.5	933.7	921.4	925.5	917.3	925.5	921.4	929.6
50°	703.4	711.6	707.5	711.6	711.6	703.4	715.7	699.3
52.5°	526.5	530.6	526.5	522.4	518.3	518.3	526.5	522.4
55°	374.3	370.2	370.2	370.2	374.3	374.3	370.2	366.1
57.5°	250.9	250.9	246.8	246.8	250.9	242.7	246.8	242.7
60°	160.4	160.4	160.4	160.4	156.3	160.4	160.4	160.4
62.5°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
65°	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
67.5°	41.1	45.2	45.2	45.2	41.1	41.1	41.1	41.1
70°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
72.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
75°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)