

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: P252210

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252210
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 EU6B60708050 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: 7870.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

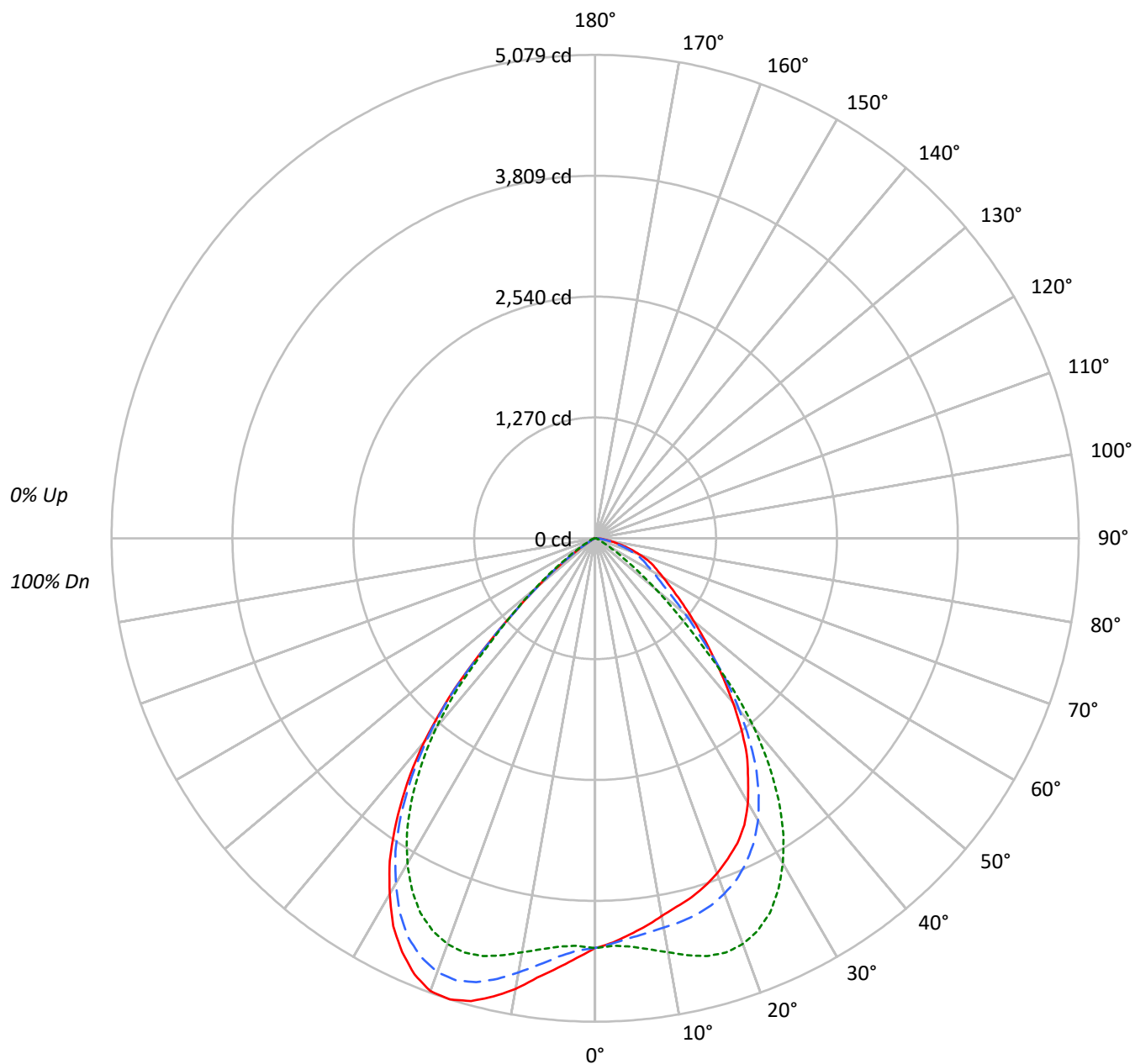
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	280894	280894	280894
5°	273610	281966	296793
10°	266956	292587	318496
15°	263833	306925	340014
20°	260055	314924	351505
25°	254525	312602	345190
30°	241865	297062	324966
35°	221283	267835	290128
40°	191401	221201	238029
45°	161407	145076	155705
50°	137030	83968	78964
55°	118919	40265	30438
60°	107412	18802	7516
65°	104217	10806	2547
70°	93430	8641	2346
75°	76781	6226	1033
80°	57220	3081	0
85°	49330	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	5.3
10°-20°	1267.4	16.1
20°-30°	1936.5	24.6
30°-40°	2025.4	25.7
40°-50°	1313.9	16.7
50°-60°	521.7	6.6
60°-70°	247.5	3.1
70°-80°	117.7	1.5
80°-90°	24.0	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°	3619.8	46.0
0°-40°	5645.2	71.7
0°-60°	7480.8	95.1
0°-90°	7870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7870.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4306	4306	4306	4306	4306	
5°	4178	4215	4306	4412	4532	394
15°	3906	4096	4544	4828	5034	1101
25°	3536	3758	4343	4635	4795	1619
35°	2778	2947	3363	3560	3643	1718
45°	1749	1733	1572	1667	1688	1361
55°	1046	889	354	276	268	947
65°	675	560	70	16	16	659
75°	305	247	25	8	4	329
85°	66	41	0	0	0	77
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°	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5
2.5°	4252.0	4260.2	4215.0	4202.6	4235.5	4247.9	4252.0	4239.7	4243.8	4260.2	4260.2
5°	4177.9	4186.1	4145.0	4132.6	4165.6	4173.8	4186.1	4182.0	4194.4	4219.1	4215.0
7.5°	4107.9	4120.3	4075.0	4058.5	4099.7	4120.3	4128.5	4128.5	4145.0	4177.9	4182.0
10°	4029.7	4046.2	4005.0	3996.8	4042.1	4062.7	4066.8	4075.0	4099.7	4145.0	4153.2
12.5°	3963.9	3980.3	3951.5	3939.2	3988.6	4009.1	4017.4	4033.8	4062.7	4120.3	4128.5
15°	3906.2	3918.6	3885.7	3877.4	3926.8	3951.5	3955.6	3980.3	4017.4	4083.2	4095.6
17.5°	3832.2	3840.4	3815.7	3807.5	3856.8	3881.5	3885.7	3914.5	3959.8	4025.6	4046.2
20°	3745.7	3753.9	3729.2	3721.0	3770.4	3799.2	3803.3	3828.0	3881.5	3951.5	3972.1
22.5°	3642.8	3659.3	3630.5	3622.2	3671.6	3696.3	3708.7	3729.2	3782.8	3852.7	3881.5
25°	3535.8	3535.8	3515.2	3511.1	3556.4	3585.2	3581.1	3609.9	3663.4	3733.4	3758.1
27.5°	3395.8	3391.7	3371.1	3367.0	3416.4	3441.1	3432.9	3461.7	3511.1	3581.1	3605.8
30°	3210.6	3218.8	3190.0	3181.8	3223.0	3264.1	3260.0	3288.8	3338.2	3404.1	3420.5
32.5°	2988.3	2996.6	2992.5	2980.1	3017.2	3037.7	3050.1	3070.7	3111.8	3181.8	3198.3
35°	2778.4	2766.1	2749.6	2749.6	2786.6	2819.6	2807.2	2831.9	2873.1	2943.1	2947.2
37.5°	2519.1	2515.0	2506.7	2498.5	2539.7	2547.9	2552.0	2568.5	2605.5	2663.2	2654.9
40°	2247.4	2251.5	2247.4	2231.0	2255.7	2288.6	2284.5	2292.7	2325.6	2366.8	2354.4
42.5°	1992.2	1992.2	1992.2	1975.8	2004.6	2021.0	2029.3	2025.2	2033.4	2070.4	2054.0
45°	1749.4	1753.5	1749.4	1745.3	1749.4	1757.6	1749.4	1745.3	1745.3	1757.6	1732.9
47.5°	1539.4	1539.4	1527.1	1514.7	1527.1	1531.2	1518.9	1506.5	1502.4	1498.3	1457.1
50°	1350.1	1346.0	1341.9	1321.3	1333.6	1337.8	1321.3	1313.1	1296.6	1276.0	1226.6
52.5°	1185.5	1181.3	1177.2	1156.6	1164.9	1169.0	1152.5	1136.1	1115.5	1099.0	1037.3
55°	1045.5	1041.4	1041.4	1029.0	1020.8	1029.0	1012.6	1000.2	971.4	950.8	889.1
57.5°	926.1	926.1	917.9	905.6	909.7	909.7	893.2	876.7	852.0	827.3	778.0
60°	823.2	823.2	823.2	810.9	810.9	810.9	802.7	786.2	765.6	740.9	691.5
62.5°	740.9	740.9	736.8	724.4	728.6	728.6	720.3	703.9	683.3	666.8	617.4
65°	675.1	675.1	675.1	662.7	662.7	666.8	658.6	642.1	625.7	605.1	559.8
67.5°	592.7	588.6	588.6	580.4	584.5	588.6	580.4	568.0	547.5	535.1	493.9
70°	489.8	493.9	498.1	485.7	489.8	489.8	485.7	473.4	461.0	448.7	411.6
72.5°	399.3	399.3	395.2	391.0	391.0	395.2	386.9	374.6	366.3	358.1	329.3
75°	304.6	300.5	304.6	296.4	296.4	296.4	288.1	284.0	279.9	267.6	247.0
77.5°	222.3	218.2	218.2	209.9	214.0	214.0	209.9	201.7	193.5	189.3	172.9
80°	152.3	152.3	152.3	148.2	148.2	144.1	144.1	139.9	131.7	127.6	119.4
82.5°	102.9	102.9	102.9	98.8	98.8	98.8	94.7	90.6	86.4	82.3	74.1
85°	65.9	65.9	65.9	61.7	61.7	61.7	57.6	57.6	53.5	49.4	41.2
87.5°	37.0	37.0	37.0	32.9	32.9	32.9	32.9	32.9	28.8	24.7	20.6
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°	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5
2.5°	4289.0	4231.4	4268.5	4268.5	4256.1	4289.0	4309.6	4326.1	4322.0	4284.9	4280.8
5°	4256.1	4206.7	4247.9	4252.0	4239.7	4284.9	4313.7	4334.3	4338.4	4305.5	4309.6
7.5°	4231.4	4190.3	4243.8	4260.2	4256.1	4297.3	4330.2	4363.1	4379.6	4354.9	4359.0
10°	4219.1	4186.1	4243.8	4268.5	4272.6	4317.9	4367.3	4412.5	4433.1	4416.6	4429.0
12.5°	4202.6	4182.0	4247.9	4284.9	4301.4	4346.7	4408.4	4461.9	4494.9	4486.6	4511.3
15°	4186.1	4169.7	4247.9	4301.4	4322.0	4363.1	4433.1	4511.3	4548.4	4544.2	4577.2
17.5°	4145.0	4140.9	4223.2	4280.8	4309.6	4359.0	4424.9	4519.6	4556.6	4564.8	4606.0
20°	4079.1	4079.1	4169.7	4231.4	4264.3	4309.6	4392.0	4482.5	4527.8	4536.0	4581.3
22.5°	3988.6	3996.8	4083.2	4145.0	4194.4	4227.3	4313.7	4408.4	4449.6	4461.9	4511.3
25°	3869.2	3877.4	3959.8	4021.5	4075.0	4112.1	4194.4	4280.8	4330.2	4342.6	4379.6
27.5°	3712.8	3729.2	3807.5	3869.2	3914.5	3939.2	4025.6	4116.2	4153.2	4165.6	4202.6
30°	3531.7	3535.8	3614.0	3667.5	3712.8	3733.4	3807.5	3902.1	3930.9	3943.3	3996.8
32.5°	3309.4	3305.3	3379.4	3428.8	3465.8	3490.5	3568.7	3630.5	3659.3	3679.9	3708.7
35°	3041.8	3037.7	3091.2	3148.9	3177.7	3185.9	3264.1	3330.0	3346.4	3362.9	3400.0
37.5°	2741.4	2741.4	2786.6	2815.5	2848.4	2860.7	2897.8	2971.9	3000.7	2996.6	3025.4
40°	2424.4	2408.0	2440.9	2469.7	2477.9	2482.0	2519.1	2576.7	2597.3	2597.3	2617.9
42.5°	2091.0	2066.3	2070.4	2086.9	2095.1	2066.3	2091.0	2128.1	2115.7	2132.2	2136.3
45°	1737.0	1700.0	1683.5	1646.5	1654.7	1625.9	1609.4	1617.7	1613.5	1572.4	1580.6
47.5°	1448.9	1383.0	1354.2	1300.7	1288.4	1255.4	1234.9	1197.8	1164.9	1164.9	1144.3
50°	1206.0	1140.2	1082.6	1020.8	1000.2	971.4	926.1	876.7	852.0	827.3	806.8
52.5°	1012.6	942.6	872.6	806.8	778.0	740.9	679.2	629.8	584.5	559.8	535.1
55°	856.2	778.0	703.9	633.9	596.8	559.8	498.1	440.4	386.9	354.0	333.4
57.5°	736.8	662.7	584.5	510.4	477.5	436.3	370.5	308.7	259.3	222.3	201.7
60°	650.4	576.3	506.3	428.1	395.2	354.0	284.0	226.4	177.0	144.1	119.4
62.5°	576.3	510.4	436.3	366.3	333.4	292.2	226.4	168.8	123.5	90.6	70.0
65°	522.8	456.9	395.2	325.2	296.4	255.2	193.5	139.9	98.8	70.0	49.4
67.5°	461.0	403.4	341.6	284.0	255.2	222.3	164.6	119.4	82.3	57.6	41.2
70°	386.9	341.6	288.1	234.6	214.0	185.2	135.8	98.8	65.9	45.3	32.9
72.5°	308.7	271.7	230.5	189.3	172.9	144.1	111.1	78.2	49.4	32.9	24.7
75°	234.6	205.8	172.9	144.1	127.6	111.1	82.3	57.6	37.0	24.7	16.5
77.5°	160.5	148.2	123.5	98.8	90.6	78.2	53.5	37.0	24.7	16.5	8.2
80°	111.1	98.8	82.3	65.9	57.6	49.4	32.9	24.7	12.3	8.2	4.1
82.5°	70.0	57.6	49.4	41.2	37.0	28.8	20.6	12.3	8.2	4.1	4.1
85°	37.0	32.9	28.8	20.6	20.6	16.5	12.3	8.2	4.1	0.0	0.0
87.5°	20.6	16.5	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°	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5
2.5°	4330.2	4330.2	4326.1	4375.5	4317.9	4375.5	4346.7	4375.5	4334.3	4330.2	4334.3
5°	4363.1	4375.5	4379.6	4424.9	4371.4	4441.3	4416.6	4441.3	4412.5	4420.8	4433.1
7.5°	4429.0	4449.6	4445.5	4503.1	4449.6	4527.8	4511.3	4548.4	4519.6	4527.8	4544.2
10°	4503.1	4527.8	4531.9	4589.5	4540.1	4634.8	4614.2	4655.4	4630.7	4643.0	4663.6
12.5°	4589.5	4618.3	4622.5	4688.3	4634.8	4733.6	4721.2	4762.4	4741.8	4754.2	4778.9
15°	4655.4	4696.5	4704.8	4770.6	4713.0	4815.9	4807.7	4861.2	4828.3	4848.8	4869.4
17.5°	4688.3	4725.4	4741.8	4803.6	4754.2	4857.1	4848.8	4894.1	4869.4	4890.0	4914.7
20°	4667.7	4713.0	4725.4	4787.1	4737.7	4840.6	4828.3	4873.5	4848.8	4865.3	4890.0
22.5°	4593.6	4638.9	4655.4	4713.0	4667.7	4762.4	4758.3	4799.5	4766.5	4787.1	4807.7
25°	4461.9	4511.3	4519.6	4573.1	4523.7	4622.5	4614.2	4659.5	4634.8	4647.2	4676.0
27.5°	4272.6	4330.2	4342.6	4387.8	4350.8	4433.1	4433.1	4470.2	4441.3	4441.3	4470.2
30°	4046.2	4103.8	4112.1	4149.1	4116.2	4190.3	4194.4	4231.4	4186.1	4210.8	4215.0
32.5°	3770.4	3807.5	3832.2	3865.1	3815.7	3910.4	3898.0	3926.8	3902.1	3902.1	3922.7
35°	3437.0	3482.3	3494.6	3535.8	3494.6	3568.7	3568.7	3585.2	3560.5	3560.5	3593.4
37.5°	3074.8	3107.7	3111.8	3153.0	3120.1	3181.8	3177.7	3190.0	3165.3	3181.8	3181.8
40°	2650.8	2675.5	2683.7	2704.3	2700.2	2745.5	2741.4	2749.6	2737.3	2741.4	2749.6
42.5°	2156.9	2189.8	2206.3	2222.7	2198.0	2259.8	2247.4	2259.8	2255.7	2259.8	2272.1
45°	1588.8	1613.5	1625.9	1630.0	1621.8	1658.8	1687.6	1662.9	1667.0	1658.8	1675.3
47.5°	1148.4	1152.5	1144.3	1169.0	1148.4	1164.9	1173.1	1177.2	1152.5	1148.4	1164.9
50°	786.2	806.8	778.0	790.3	786.2	802.7	794.4	798.5	773.8	786.2	778.0
52.5°	522.8	518.6	510.4	514.5	506.3	506.3	506.3	514.5	498.1	489.8	481.6
55°	316.9	308.7	292.2	288.1	288.1	292.2	284.0	275.8	275.8	271.7	271.7
57.5°	185.2	172.9	164.6	160.5	152.3	148.2	144.1	144.1	135.8	135.8	135.8
60°	102.9	90.6	82.3	74.1	74.1	70.0	65.9	61.7	61.7	61.7	57.6
62.5°	53.5	45.3	37.0	32.9	32.9	28.8	24.7	24.7	24.7	24.7	20.6
65°	37.0	28.8	24.7	20.6	20.6	16.5	16.5	16.5	16.5	16.5	16.5
67.5°	28.8	24.7	20.6	16.5	16.5	16.5	12.3	12.3	12.3	12.3	12.3
70°	24.7	16.5	16.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	16.5	16.5	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: P252210

CATALOG NUMBER: LD6B60D010TE EU6B60708050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5	4305.5
2.5°	4371.4	4367.3	4371.4	4379.6	4363.1	4412.5	4387.8	4412.5
5°	4466.0	4470.2	4474.3	4486.6	4466.0	4527.8	4494.9	4531.9
7.5°	4589.5	4593.6	4597.8	4610.1	4597.8	4659.5	4622.5	4655.4
10°	4717.1	4725.4	4725.4	4745.9	4733.6	4791.2	4766.5	4807.7
12.5°	4836.5	4844.7	4853.0	4865.3	4857.1	4918.8	4898.2	4931.2
15°	4931.2	4947.6	4951.7	4968.2	4960.0	5025.8	5001.1	5034.1
17.5°	4976.4	4992.9	4992.9	5013.5	5005.3	5075.2	5042.3	5079.4
20°	4951.7	4964.1	4968.2	4988.8	4980.6	5050.5	5017.6	5062.9
22.5°	4873.5	4877.7	4881.8	4902.4	4898.2	4960.0	4931.2	4960.0
25°	4729.5	4741.8	4737.7	4754.2	4754.2	4803.6	4770.6	4795.3
27.5°	4523.7	4536.0	4536.0	4556.6	4540.1	4589.5	4556.6	4593.6
30°	4272.6	4284.9	4276.7	4293.2	4276.7	4326.1	4301.4	4313.7
32.5°	3972.1	3972.1	3976.2	3980.3	3972.1	4017.4	3992.7	4017.4
35°	3614.0	3622.2	3626.3	3630.5	3622.2	3655.2	3626.3	3642.8
37.5°	3210.6	3231.2	3227.1	3231.2	3218.8	3260.0	3235.3	3243.5
40°	2778.4	2778.4	2774.3	2782.5	2770.2	2803.1	2786.6	2794.9
42.5°	2276.2	2288.6	2272.1	2292.7	2259.8	2305.1	2288.6	2276.2
45°	1708.2	1691.7	1687.6	1691.7	1679.4	1683.5	1695.9	1687.6
47.5°	1164.9	1164.9	1156.6	1144.3	1160.8	1164.9	1148.4	1148.4
50°	782.1	782.1	773.8	769.7	778.0	773.8	765.6	778.0
52.5°	498.1	481.6	481.6	489.8	481.6	473.4	485.7	477.5
55°	271.7	263.4	263.4	271.7	263.4	263.4	259.3	267.6
57.5°	131.7	135.8	131.7	131.7	131.7	131.7	127.6	131.7
60°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
62.5°	24.7	24.7	20.6	20.6	20.6	20.6	20.6	20.6
65°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
67.5°	12.3	12.3	12.3	12.3	12.3	16.5	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	16.5	16.5	16.5	16.5	16.5	16.5
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)