

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: P252518

Luminaire Tested: **LD6B60D010TE EU6B60708027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60708027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4850.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

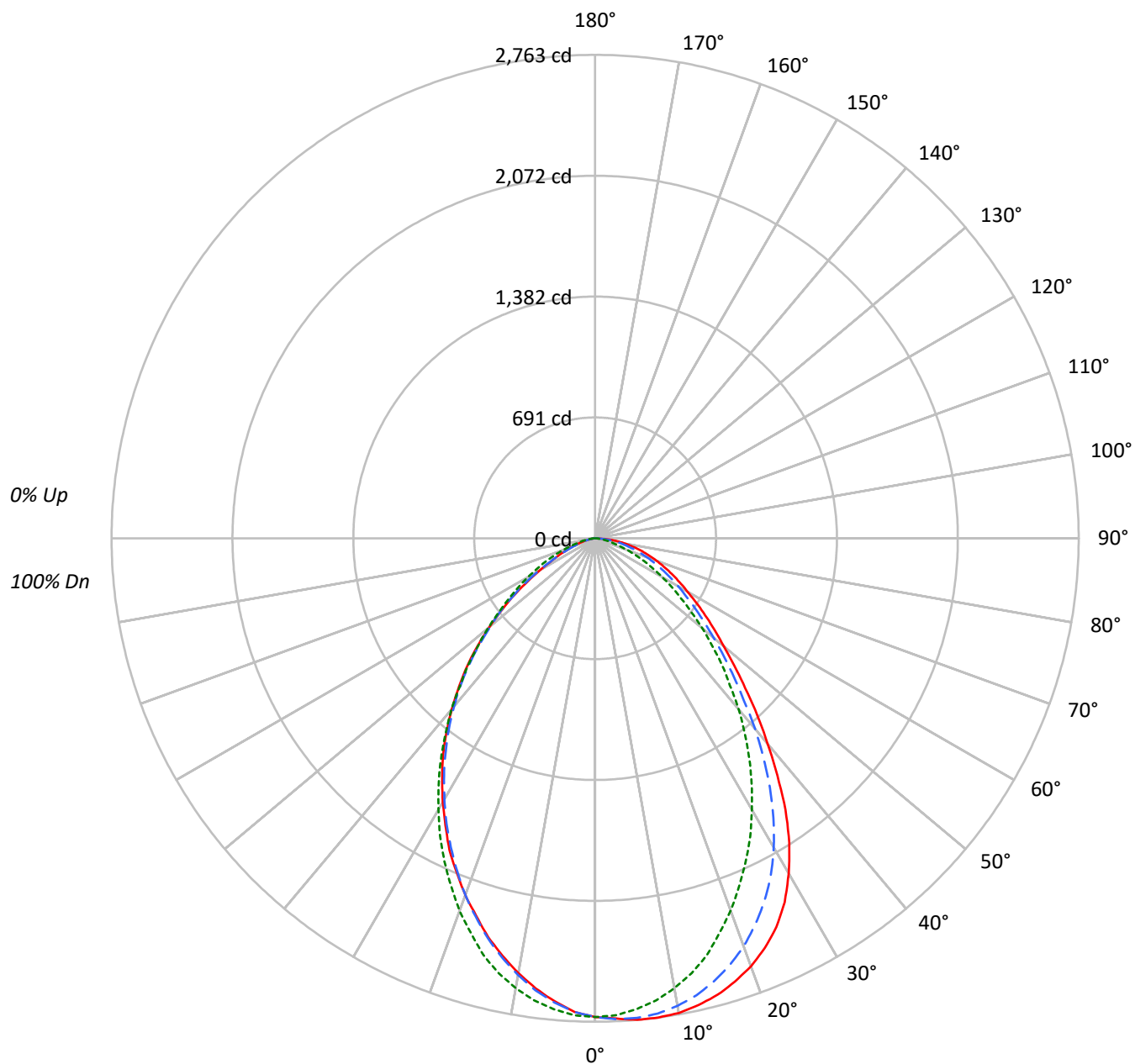
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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			
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	178505	178505	178505
5°	180929	176947	173961
10°	182517	172951	167161
15°	182492	166579	159393
20°	180727	157247	150651
25°	176443	146626	141703
30°	166615	134839	131118
35°	151029	122278	120764
40°	130431	108748	108424
45°	111852	94663	95364
50°	97193	80994	79837
55°	87310	68292	63969
60°	79333	57516	47104
65°	74500	47516	34610
70°	71036	36968	25370
75°	68009	26820	17242
80°	64246	18560	11421
85°	56890	11378	5689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	5.3
10°-20°	701.0	14.5
20°-30°	973.2	20.1
30°-40°	1008.0	20.8
40°-50°	828.3	17.1
50°-60°	569.3	11.7
60°-70°	327.2	6.7
70°-80°	150.4	3.1
80°-90°	36.6	0.8
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°	1930.1	39.8
0°-40°	2938.1	60.6
0°-60°	4335.6	89.4
0°-90°	4850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4850.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2736	2736	2736	2736	2736	
5°	2763	2751	2702	2664	2656	263
15°	2702	2622	2466	2368	2360	761
25°	2451	2288	2037	1950	1968	1122
35°	1896	1740	1535	1490	1516	1176
45°	1212	1121	1026	1015	1034	944
55°	768	695	600	566	562	691
65°	483	422	308	217	224	480
75°	270	213	106	68	68	285
85°	76	53	15	8	8	85
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°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2747.5	2770.3	2755.1	2751.3	2758.9	2758.9	2758.9	2747.5	2755.1	2743.7	2751.3
5°	2762.7	2781.7	2766.5	2758.9	2766.5	2770.3	2758.9	2751.3	2762.7	2747.5	2751.3
7.5°	2762.7	2781.7	2766.5	2762.7	2766.5	2766.5	2762.7	2747.5	2755.1	2739.9	2739.9
10°	2755.1	2770.3	2755.1	2747.5	2751.3	2747.5	2747.5	2728.5	2732.3	2713.3	2713.3
12.5°	2732.3	2751.3	2732.3	2724.7	2724.7	2724.7	2713.3	2698.1	2701.9	2679.1	2675.3
15°	2701.9	2717.1	2698.1	2690.5	2690.5	2686.7	2679.1	2656.3	2656.3	2633.5	2622.1
17.5°	2656.3	2671.5	2656.3	2644.9	2641.1	2633.5	2625.9	2603.1	2595.5	2568.9	2557.5
20°	2603.1	2614.5	2599.3	2587.9	2580.3	2572.7	2557.5	2534.7	2527.1	2500.5	2481.5
22.5°	2534.7	2549.9	2527.1	2515.7	2508.1	2496.7	2481.5	2458.7	2447.3	2413.1	2390.3
25°	2451.1	2458.7	2439.7	2428.3	2413.1	2405.5	2394.1	2363.7	2352.3	2314.3	2287.7
27.5°	2344.7	2352.3	2329.5	2321.9	2302.9	2295.3	2280.1	2253.5	2238.3	2200.3	2173.7
30°	2211.7	2219.3	2204.1	2192.7	2177.5	2162.3	2150.9	2124.3	2101.5	2063.5	2040.7
32.5°	2063.5	2074.9	2059.7	2044.5	2017.9	2021.7	2002.7	1976.1	1957.1	1922.9	1896.3
35°	1896.3	1903.9	1884.9	1881.1	1865.9	1850.7	1831.7	1812.7	1801.3	1763.3	1740.5
37.5°	1710.1	1729.1	1710.1	1694.9	1687.3	1675.9	1664.5	1637.9	1630.3	1607.5	1577.1
40°	1531.5	1542.9	1531.5	1516.3	1504.9	1504.9	1489.7	1474.5	1455.5	1432.7	1421.3
42.5°	1371.9	1364.3	1360.5	1352.9	1337.7	1333.9	1330.1	1311.1	1299.7	1276.9	1257.9
45°	1212.3	1216.1	1208.5	1204.7	1193.3	1185.7	1178.1	1162.9	1159.1	1136.2	1121.0
47.5°	1079.2	1075.4	1067.8	1067.8	1060.2	1052.6	1045.0	1033.6	1029.8	1010.8	995.6
50°	957.6	961.4	957.6	953.8	942.4	938.6	931.0	923.4	915.8	896.8	881.6
52.5°	858.8	855.0	851.2	851.2	839.8	836.0	828.4	820.8	813.2	794.2	782.8
55°	767.6	767.6	763.8	760.0	748.6	744.8	741.0	733.4	722.0	706.8	695.4
57.5°	684.0	684.0	680.2	676.4	668.8	668.8	661.2	653.6	646.0	630.8	615.6
60°	608.0	611.8	608.0	604.2	596.6	596.6	592.8	581.4	577.6	558.6	547.2
62.5°	543.4	543.4	543.4	539.6	535.8	528.2	528.2	516.8	509.2	497.8	482.6
65°	482.6	482.6	482.6	478.8	471.2	467.4	463.6	456.0	448.4	437.0	421.8
67.5°	425.6	425.6	425.6	421.8	414.2	410.4	406.6	402.8	391.4	380.0	364.8
70°	372.4	372.4	368.6	364.8	361.0	357.2	353.4	345.8	338.2	323.0	311.6
72.5°	319.2	319.2	319.2	311.6	307.8	307.8	300.2	296.4	288.8	273.6	262.2
75°	269.8	266.0	266.0	262.2	258.4	254.6	250.8	247.0	235.6	228.0	212.8
77.5°	220.4	220.4	216.6	212.8	212.8	209.0	205.2	197.6	193.8	182.4	171.0
80°	171.0	171.0	171.0	171.0	167.2	163.4	163.4	155.8	152.0	140.6	133.0
82.5°	129.2	125.4	125.4	125.4	121.6	117.8	117.8	114.0	110.2	102.6	95.0
85°	76.0	72.2	72.2	72.2	68.4	68.4	64.6	64.6	60.8	53.2	53.2
87.5°	22.8	22.8	26.6	26.6	22.8	22.8	22.8	22.8	22.8	19.0	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°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2743.7	2755.1	2739.9	2736.1	2751.3	2743.7	2739.9	2732.3	2736.1	2728.5	2717.1
5°	2739.9	2755.1	2736.1	2724.7	2743.7	2732.3	2724.7	2717.1	2717.1	2701.9	2694.3
7.5°	2728.5	2736.1	2717.1	2705.7	2717.1	2705.7	2698.1	2686.7	2682.9	2663.9	2652.5
10°	2698.1	2705.7	2682.9	2667.7	2679.1	2663.9	2652.5	2641.1	2633.5	2610.7	2595.5
12.5°	2656.3	2660.1	2633.5	2614.5	2622.1	2610.7	2591.7	2576.5	2568.9	2546.1	2527.1
15°	2599.3	2603.1	2572.7	2546.1	2553.7	2538.5	2515.7	2500.5	2489.1	2466.3	2439.7
17.5°	2530.9	2527.1	2492.9	2466.3	2470.1	2451.1	2428.3	2405.5	2390.3	2363.7	2344.7
20°	2454.9	2443.5	2405.5	2375.1	2378.9	2356.1	2329.5	2306.7	2287.7	2264.9	2238.3
22.5°	2359.9	2344.7	2310.5	2272.5	2276.3	2257.3	2219.3	2200.3	2181.3	2150.9	2128.1
25°	2257.3	2234.5	2200.3	2162.3	2162.3	2139.5	2109.1	2086.3	2067.3	2036.9	2010.3
27.5°	2135.7	2124.3	2078.7	2048.3	2044.5	2021.7	1995.1	1968.5	1945.7	1919.1	1892.5
30°	2002.7	1983.7	1949.5	1915.3	1907.7	1888.7	1862.1	1831.7	1816.5	1789.9	1767.1
32.5°	1862.1	1843.1	1805.1	1770.9	1767.1	1751.9	1729.1	1698.7	1683.5	1664.5	1649.3
35°	1702.5	1694.9	1656.9	1630.3	1630.3	1615.1	1592.3	1565.7	1554.3	1535.3	1516.3
37.5°	1550.5	1539.1	1504.9	1482.1	1482.1	1463.1	1440.3	1428.9	1417.5	1402.3	1390.9
40°	1390.9	1383.3	1356.7	1333.9	1337.7	1322.5	1307.3	1292.1	1284.5	1276.9	1265.5
42.5°	1242.7	1235.1	1216.1	1197.1	1197.1	1185.7	1170.5	1159.1	1151.4	1140.0	1136.2
45°	1109.6	1098.2	1083.0	1064.0	1064.0	1052.6	1045.0	1037.4	1033.6	1026.0	1014.6
47.5°	980.4	972.8	957.6	938.6	938.6	938.6	923.4	912.0	912.0	904.4	900.6
50°	870.2	858.8	847.4	832.2	832.2	824.6	813.2	801.8	801.8	798.0	790.4
52.5°	767.6	760.0	744.8	729.6	729.6	722.0	710.6	706.8	703.0	691.6	687.8
55°	680.2	672.6	661.2	642.2	638.4	634.6	623.2	615.6	611.8	600.4	600.4
57.5°	600.4	592.8	573.8	562.4	558.6	551.0	539.6	532.0	528.2	520.6	513.0
60°	532.0	520.6	505.4	490.2	486.4	478.8	467.4	459.8	456.0	440.8	433.2
62.5°	467.4	456.0	440.8	425.6	421.8	414.2	399.0	391.4	383.8	368.6	361.0
65°	406.6	395.2	380.0	364.8	357.2	353.4	338.2	326.8	319.2	307.8	292.6
67.5°	349.6	338.2	323.0	304.0	304.0	292.6	281.2	269.8	258.4	247.0	235.6
70°	296.4	285.0	269.8	254.6	250.8	243.2	231.8	216.6	209.0	193.8	182.4
72.5°	247.0	235.6	220.4	205.2	201.4	193.8	182.4	167.2	155.8	144.4	133.0
75°	201.4	190.0	174.8	163.4	159.6	152.0	140.6	125.4	114.0	106.4	95.0
77.5°	159.6	148.2	136.8	125.4	121.6	114.0	102.6	95.0	83.6	76.0	64.6
80°	121.6	114.0	102.6	95.0	91.2	83.6	76.0	64.6	57.0	49.4	45.6
82.5°	87.4	79.8	72.2	60.8	60.8	53.2	49.4	41.8	34.2	30.4	26.6
85°	49.4	41.8	38.0	34.2	30.4	30.4	26.6	22.8	19.0	15.2	15.2
87.5°	15.2	15.2	11.4	11.4	11.4	11.4	7.6	7.6	7.6	7.6	7.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2717.1	2720.9	2713.3	2720.9	2713.3	2717.1	2709.5	2717.1	2709.5	2717.1	2701.9
5°	2690.5	2690.5	2679.1	2686.7	2679.1	2682.9	2667.7	2671.5	2663.9	2671.5	2656.3
7.5°	2644.9	2648.7	2629.7	2637.3	2625.9	2625.9	2614.5	2618.3	2606.9	2610.7	2599.3
10°	2591.7	2587.9	2568.9	2576.5	2561.3	2561.3	2549.9	2549.9	2534.7	2538.5	2523.3
12.5°	2515.7	2511.9	2489.1	2496.7	2481.5	2481.5	2470.1	2470.1	2454.9	2462.5	2447.3
15°	2428.3	2424.5	2401.7	2405.5	2390.3	2390.3	2375.1	2378.9	2367.5	2375.1	2359.9
17.5°	2329.5	2325.7	2302.9	2306.7	2287.7	2291.5	2280.1	2276.3	2268.7	2272.5	2261.1
20°	2226.9	2219.3	2196.5	2200.3	2192.7	2181.3	2173.7	2177.5	2169.9	2177.5	2166.1
22.5°	2120.5	2105.3	2086.3	2086.3	2078.7	2078.7	2067.3	2074.9	2059.7	2071.1	2063.5
25°	1998.9	1987.5	1972.3	1979.9	1964.7	1964.7	1953.3	1957.1	1949.5	1957.1	1949.5
27.5°	1881.1	1873.5	1850.7	1858.3	1846.9	1850.7	1839.3	1843.1	1839.3	1846.9	1839.3
30°	1755.7	1751.9	1736.7	1736.7	1732.9	1729.1	1725.3	1725.3	1721.5	1732.9	1725.3
32.5°	1637.9	1626.5	1611.3	1622.7	1603.7	1615.1	1607.5	1615.1	1607.5	1615.1	1611.3
35°	1516.3	1512.5	1493.5	1497.3	1493.5	1493.5	1489.7	1489.7	1489.7	1501.1	1501.1
37.5°	1387.1	1383.3	1371.9	1375.7	1368.1	1364.3	1364.3	1371.9	1371.9	1379.5	1379.5
40°	1261.7	1265.5	1254.1	1254.1	1250.3	1250.3	1250.3	1257.9	1254.1	1261.7	1257.9
42.5°	1136.2	1136.2	1124.8	1128.6	1124.8	1128.6	1128.6	1136.2	1136.2	1140.0	1136.2
45°	1018.4	1018.4	1014.6	1018.4	1010.8	1014.6	1010.8	1018.4	1014.6	1018.4	1018.4
47.5°	900.6	900.6	900.6	896.8	896.8	896.8	896.8	896.8	893.0	900.6	896.8
50°	790.4	794.2	790.4	790.4	786.6	790.4	786.6	786.6	779.0	782.8	782.8
52.5°	691.6	691.6	684.0	684.0	684.0	680.2	680.2	680.2	676.4	676.4	668.8
55°	596.6	596.6	589.0	589.0	585.2	581.4	577.6	577.6	566.2	566.2	554.8
57.5°	509.2	505.4	494.0	494.0	486.4	482.6	478.8	475.0	467.4	459.8	456.0
60°	429.4	421.8	414.2	410.4	402.8	395.2	387.6	380.0	372.4	368.6	364.8
62.5°	353.4	342.0	334.4	330.6	323.0	311.6	304.0	296.4	288.8	285.0	277.4
65°	285.0	273.6	262.2	258.4	250.8	243.2	231.8	224.2	216.6	212.8	212.8
67.5°	224.2	212.8	197.6	197.6	190.0	182.4	174.8	167.2	163.4	167.2	167.2
70°	167.2	159.6	148.2	144.4	136.8	129.2	125.4	125.4	125.4	129.2	125.4
72.5°	125.4	114.0	106.4	102.6	98.8	95.0	95.0	95.0	91.2	95.0	95.0
75°	87.4	79.8	72.2	72.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4
77.5°	60.8	53.2	49.4	49.4	49.4	45.6	45.6	45.6	45.6	45.6	45.6
80°	38.0	38.0	34.2	34.2	30.4	30.4	30.4	30.4	30.4	30.4	30.4
82.5°	22.8	22.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
85°	11.4	11.4	11.4	11.4	11.4	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	7.6	7.6	7.6
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: P252518

CATALOG NUMBER: LD6B60D010TE EU6B60708027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2701.9	2713.3	2698.1	2709.5	2705.7	2701.9	2694.3	2709.5
5°	2656.3	2660.1	2644.9	2660.1	2656.3	2648.7	2641.1	2656.3
7.5°	2591.7	2603.1	2584.1	2599.3	2595.5	2587.9	2580.3	2595.5
10°	2519.5	2530.9	2515.7	2527.1	2527.1	2519.5	2508.1	2523.3
12.5°	2439.7	2447.3	2432.1	2447.3	2443.5	2435.9	2432.1	2443.5
15°	2352.3	2363.7	2348.5	2359.9	2356.1	2352.3	2348.5	2359.9
17.5°	2257.3	2268.7	2257.3	2268.7	2268.7	2257.3	2253.5	2261.1
20°	2162.3	2169.9	2158.5	2169.9	2166.1	2166.1	2158.5	2169.9
22.5°	2055.9	2067.3	2059.7	2067.3	2063.5	2063.5	2059.7	2067.3
25°	1949.5	1960.9	1949.5	1960.9	1957.1	1957.1	1949.5	1968.5
27.5°	1843.1	1850.7	1839.3	1854.5	1850.7	1843.1	1846.9	1850.7
30°	1729.1	1736.7	1729.1	1740.5	1740.5	1740.5	1732.9	1740.5
32.5°	1615.1	1626.5	1615.1	1626.5	1622.7	1622.7	1618.9	1626.5
35°	1501.1	1504.9	1497.3	1508.7	1508.7	1512.5	1504.9	1516.3
37.5°	1383.3	1387.1	1383.3	1387.1	1394.7	1383.3	1390.9	1394.7
40°	1261.7	1269.3	1265.5	1269.3	1269.3	1273.1	1269.3	1273.1
42.5°	1140.0	1147.6	1140.0	1151.4	1147.6	1147.6	1151.4	1151.4
45°	1014.6	1026.0	1018.4	1026.0	1029.8	1026.0	1026.0	1033.6
47.5°	896.8	904.4	900.6	904.4	904.4	904.4	904.4	912.0
50°	779.0	782.8	782.8	786.6	786.6	790.4	782.8	786.6
52.5°	661.2	668.8	668.8	668.8	665.0	668.8	668.8	668.8
55°	554.8	558.6	551.0	558.6	558.6	554.8	554.8	562.4
57.5°	452.2	452.2	452.2	452.2	452.2	448.4	452.2	452.2
60°	357.2	361.0	357.2	357.2	357.2	357.2	353.4	361.0
62.5°	277.4	277.4	273.6	277.4	277.4	277.4	281.2	281.2
65°	216.6	220.4	216.6	220.4	220.4	220.4	220.4	224.2
67.5°	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0
70°	129.2	129.2	129.2	133.0	129.2	129.2	129.2	133.0
72.5°	95.0	95.0	95.0	95.0	95.0	95.0	98.8	98.8
75°	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
77.5°	45.6	45.6	45.6	49.4	45.6	49.4	45.6	45.6
80°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
82.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8
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)