

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: P252731

Luminaire Tested: **LD6B60D010TE EU6B60709024 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B60D010TE EU6B60709024 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4029.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

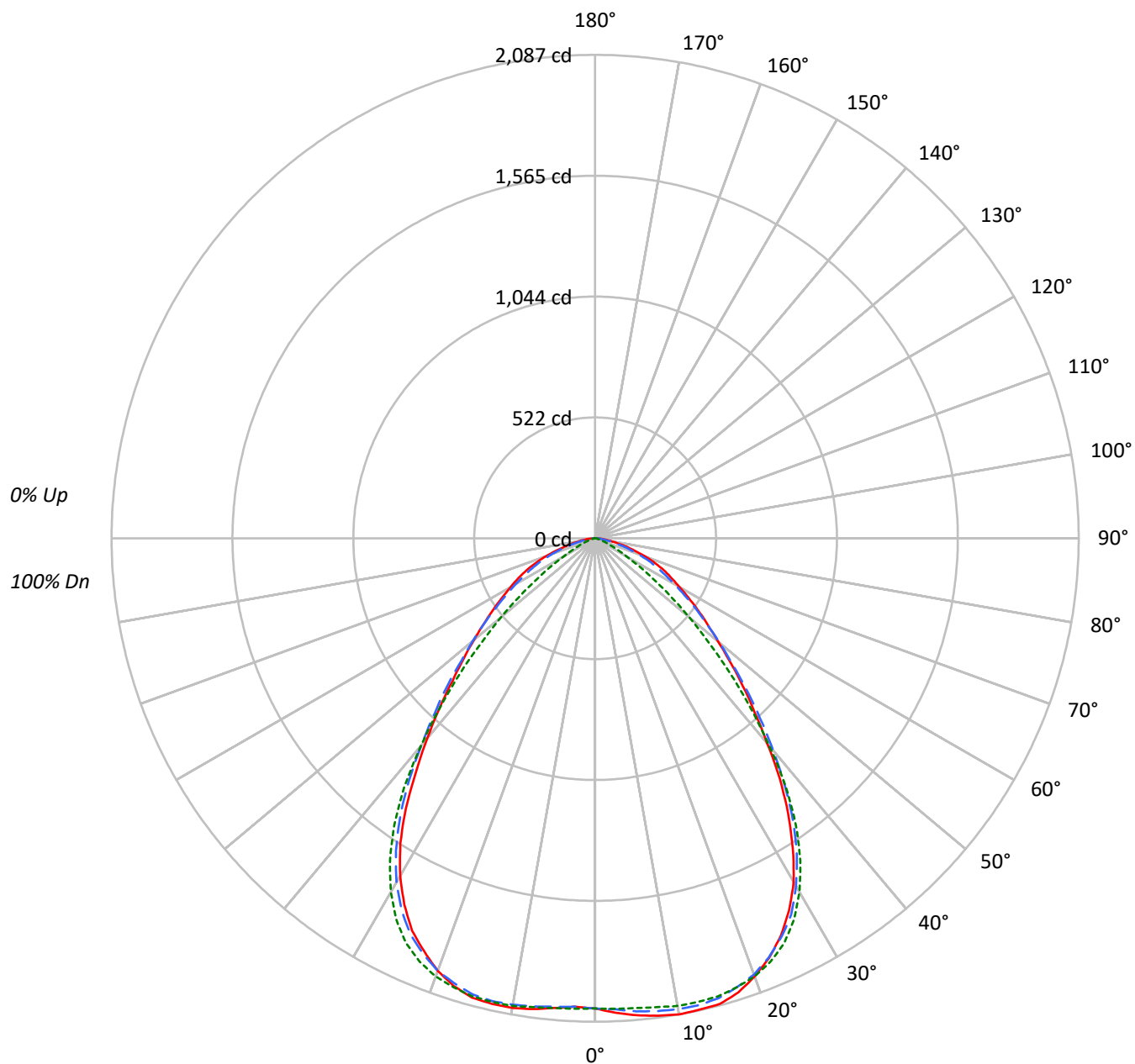
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	98	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	75	93	85	79	74	82	77	73		80	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	82	71	64	58	80	70	63	58	68	62	57		66	61	56		65
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	132432	132432	132432
5°	135381	133311	133311
10°	138278	135806	136376
15°	140596	138265	138657
20°	139737	139737	137939
25°	136412	138888	134547
30°	129129	132805	126748
35°	115707	120279	113421
40°	98298	99525	95854
45°	83176	76026	80270
50°	70225	53621	69352
55°	61717	34612	61069
60°	54698	20603	55076
65°	50526	12412	50526
70°	43815	7115	42709
75°	34735	4336	32567
80°	25886	3231	24797
85°	23654	2171	21483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	4.9
10°-20°	578.4	14.4
20°-30°	869.9	21.6
30°-40°	914.6	22.7
40°-50°	683.2	17.0
50°-60°	425.3	10.6
60°-70°	241.9	6.0
70°-80°	99.6	2.5
80°-90°	20.6	0.5
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°	1643.7	40.8
0°-40°	2558.3	63.5
0°-60°	3666.9	91.0
0°-90°	4029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2030	2030	2030	2030	2030	
5°	2067	2050	2036	2030	2036	198
15°	2082	2056	2047	2038	2053	585
25°	1895	1901	1929	1886	1869	867
35°	1453	1490	1510	1467	1424	902
45°	902	922	824	904	870	699
55°	543	531	304	522	537	488
65°	327	293	80	293	327	322
75°	138	109	17	106	129	150
85°	32	20	3	17	29	35
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°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2050.0	2047.1	2050.0	2044.3	2041.4	2041.4	2044.3	2038.5	2035.6	2038.5	2035.6
5°	2067.2	2061.5	2064.4	2061.5	2055.7	2055.7	2058.6	2050.0	2050.0	2052.9	2050.0
7.5°	2078.7	2078.7	2078.7	2073.0	2070.1	2067.2	2073.0	2064.4	2061.5	2061.5	2058.6
10°	2087.3	2084.4	2087.3	2081.6	2075.8	2073.0	2078.7	2073.0	2067.2	2073.0	2064.4
12.5°	2084.4	2084.4	2084.4	2081.6	2075.8	2073.0	2078.7	2070.1	2067.2	2070.1	2064.4
15°	2081.6	2073.0	2075.8	2073.0	2064.4	2064.4	2067.2	2058.6	2052.9	2061.5	2055.7
17.5°	2055.7	2050.0	2052.9	2047.1	2041.4	2038.5	2041.4	2038.5	2032.8	2038.5	2032.8
20°	2012.7	2012.7	2015.5	2009.8	2004.1	2001.2	2006.9	2001.2	1995.4	2004.1	2004.1
22.5°	1961.0	1961.0	1961.0	1958.1	1955.2	1955.2	1955.2	1952.4	1949.5	1955.2	1958.1
25°	1895.0	1892.1	1895.0	1897.8	1895.0	1892.1	1895.0	1895.0	1889.2	1900.7	1900.7
27.5°	1811.7	1811.7	1817.4	1814.6	1814.6	1811.7	1817.4	1817.4	1814.6	1823.2	1831.8
30°	1714.1	1708.3	1714.1	1714.1	1716.9	1716.9	1719.8	1719.8	1719.8	1728.4	1734.2
32.5°	1587.7	1590.6	1599.2	1596.4	1593.5	1602.1	1602.1	1607.8	1610.7	1616.5	1619.3
35°	1452.8	1455.7	1455.7	1458.5	1464.3	1458.5	1472.9	1470.0	1472.9	1484.4	1490.1
37.5°	1309.2	1300.6	1315.0	1309.2	1312.1	1312.1	1317.9	1320.7	1329.3	1343.7	1343.7
40°	1154.2	1157.1	1162.8	1165.7	1168.6	1168.6	1168.6	1177.2	1180.0	1197.3	1194.4
42.5°	1019.3	1019.3	1025.0	1027.9	1027.9	1027.9	1027.9	1036.5	1042.2	1048.0	1053.7
45°	901.5	892.9	898.7	898.7	904.4	901.5	907.3	913.0	915.9	924.5	921.6
47.5°	789.6	786.7	789.6	792.4	789.6	792.4	795.3	798.2	801.0	801.0	801.0
50°	691.9	691.9	694.8	697.7	697.7	697.7	697.7	700.6	700.6	706.3	700.6
52.5°	611.6	614.4	614.4	611.6	614.4	614.4	617.3	617.3	614.4	614.4	605.8
55°	542.6	539.8	542.6	539.8	542.6	542.6	539.8	539.8	536.9	534.0	531.2
57.5°	476.6	476.6	476.6	476.6	473.7	476.6	473.7	470.9	470.9	465.1	456.5
60°	419.2	419.2	419.2	419.2	419.2	416.3	419.2	416.3	410.6	404.8	393.3
62.5°	370.4	367.5	370.4	367.5	367.5	364.6	364.6	361.8	356.0	350.3	338.8
65°	327.3	330.2	327.3	327.3	324.4	321.6	321.6	318.7	310.1	304.3	292.9
67.5°	281.4	278.5	278.5	278.5	275.6	275.6	275.6	269.9	264.1	255.5	244.0
70°	229.7	229.7	229.7	226.8	226.8	223.9	223.9	221.1	215.3	209.6	195.2
72.5°	180.9	180.9	180.9	175.1	178.0	175.1	175.1	169.4	166.5	157.9	149.3
75°	137.8	137.8	134.9	134.9	132.1	129.2	129.2	126.3	123.5	117.7	109.1
77.5°	100.5	100.5	100.5	97.6	94.7	91.9	91.9	89.0	86.1	83.3	77.5
80°	68.9	68.9	68.9	68.9	66.0	63.2	63.2	60.3	60.3	57.4	51.7
82.5°	45.9	45.9	45.9	45.9	43.1	43.1	43.1	40.2	37.3	37.3	31.6
85°	31.6	31.6	28.7	28.7	28.7	28.7	25.8	25.8	23.0	20.1	20.1
87.5°	17.2	17.2	17.2	17.2	14.4	14.4	14.4	14.4	11.5	11.5	8.6
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°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2044.3	2044.3	2041.4	2032.8	2035.6	2032.8	2035.6	2032.8	2024.2	2032.8	2024.2
5°	2055.7	2058.6	2052.9	2041.4	2044.3	2041.4	2041.4	2038.5	2029.9	2035.6	2029.9
7.5°	2067.2	2064.4	2061.5	2050.0	2052.9	2050.0	2050.0	2044.3	2035.6	2041.4	2032.8
10°	2073.0	2073.0	2067.2	2055.7	2055.7	2052.9	2055.7	2052.9	2041.4	2050.0	2044.3
12.5°	2073.0	2070.1	2070.1	2055.7	2058.6	2055.7	2058.6	2052.9	2044.3	2050.0	2047.1
15°	2064.4	2064.4	2061.5	2047.1	2050.0	2050.0	2052.9	2047.1	2038.5	2047.1	2041.4
17.5°	2047.1	2047.1	2044.3	2032.8	2038.5	2038.5	2041.4	2035.6	2027.0	2032.8	2032.8
20°	2012.7	2015.5	2015.5	2006.9	2012.7	2012.7	2015.5	2012.7	2009.8	2012.7	2006.9
22.5°	1972.5	1978.2	1978.2	1969.6	1975.3	1975.3	1984.0	1981.1	1975.3	1978.2	1975.3
25°	1912.2	1917.9	1923.7	1917.9	1923.7	1923.7	1932.3	1929.4	1923.7	1929.4	1920.8
27.5°	1843.3	1846.1	1851.9	1846.1	1854.8	1851.9	1860.5	1857.6	1849.0	1857.6	1854.8
30°	1745.7	1757.1	1765.8	1757.1	1765.8	1765.8	1771.5	1768.6	1765.8	1762.9	1762.9
32.5°	1636.6	1648.0	1648.0	1645.2	1650.9	1650.9	1653.8	1648.0	1645.2	1648.0	1650.9
35°	1501.6	1507.3	1513.1	1510.2	1513.1	1516.0	1513.1	1516.0	1507.3	1510.2	1510.2
37.5°	1355.2	1360.9	1360.9	1352.3	1358.0	1358.0	1352.3	1352.3	1346.6	1352.3	1340.8
40°	1200.1	1194.4	1197.3	1191.5	1185.8	1185.8	1182.9	1171.4	1165.7	1168.6	1171.4
42.5°	1048.0	1048.0	1039.4	1025.0	1010.6	1010.6	1002.0	996.3	984.8	990.5	987.7
45°	918.8	904.4	892.9	870.0	861.3	855.6	841.2	826.9	821.1	824.0	821.1
47.5°	795.3	783.8	755.1	723.5	714.9	706.3	689.1	671.8	666.1	660.4	660.4
50°	691.9	671.8	640.3	605.8	591.5	577.1	554.1	536.9	525.4	528.3	528.3
52.5°	597.2	574.2	536.9	493.8	476.6	459.4	439.3	419.2	410.6	407.7	407.7
55°	513.9	488.1	450.8	402.0	387.6	367.5	341.7	318.7	307.2	304.3	310.1
57.5°	439.3	416.3	373.2	324.4	307.2	287.1	261.3	241.2	226.8	223.9	226.8
60°	379.0	347.4	310.1	264.1	241.2	223.9	195.2	178.0	163.7	157.9	160.8
62.5°	318.7	290.0	252.7	206.7	189.5	172.3	146.4	126.3	114.8	112.0	114.8
65°	272.8	244.0	209.6	169.4	152.2	134.9	112.0	91.9	83.3	80.4	83.3
67.5°	226.8	201.0	172.3	134.9	120.6	106.2	83.3	68.9	57.4	54.6	57.4
70°	183.8	160.8	132.1	106.2	91.9	80.4	63.2	48.8	40.2	37.3	40.2
72.5°	137.8	120.6	100.5	77.5	68.9	60.3	45.9	34.5	28.7	25.8	28.7
75°	100.5	86.1	71.8	54.6	48.8	43.1	31.6	23.0	20.1	17.2	20.1
77.5°	68.9	60.3	48.8	37.3	31.6	28.7	20.1	17.2	14.4	11.5	11.5
80°	45.9	40.2	31.6	25.8	23.0	20.1	14.4	11.5	8.6	8.6	8.6
82.5°	28.7	23.0	20.1	14.4	11.5	11.5	8.6	5.7	5.7	5.7	5.7
85°	17.2	14.4	11.5	8.6	5.7	5.7	2.9	2.9	2.9	2.9	2.9
87.5°	8.6	5.7	5.7	2.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9
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°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2029.9	2024.2	2024.2	2027.0	2029.9	2032.8	2027.0	2024.2	2024.2	2032.8	2027.0
5°	2029.9	2027.0	2027.0	2027.0	2032.8	2035.6	2029.9	2027.0	2029.9	2038.5	2035.6
7.5°	2038.5	2032.8	2035.6	2035.6	2038.5	2044.3	2038.5	2035.6	2038.5	2047.1	2041.4
10°	2044.3	2038.5	2041.4	2038.5	2047.1	2050.0	2044.3	2041.4	2044.3	2055.7	2052.9
12.5°	2047.1	2044.3	2044.3	2041.4	2050.0	2052.9	2047.1	2044.3	2047.1	2055.7	2052.9
15°	2041.4	2038.5	2038.5	2038.5	2044.3	2050.0	2041.4	2038.5	2038.5	2047.1	2044.3
17.5°	2029.9	2024.2	2024.2	2024.2	2027.0	2029.9	2021.3	2018.4	2015.5	2024.2	2021.3
20°	2009.8	2004.1	1998.3	1998.3	2001.2	2001.2	1995.4	1986.8	1986.8	1989.7	1984.0
22.5°	1972.5	1969.6	1963.9	1961.0	1966.7	1963.9	1952.4	1943.8	1940.9	1943.8	1938.0
25°	1920.8	1915.1	1912.2	1909.3	1912.2	1909.3	1897.8	1886.3	1886.3	1886.3	1877.7
27.5°	1849.0	1843.3	1840.4	1840.4	1843.3	1837.5	1826.0	1814.6	1808.8	1808.8	1800.2
30°	1757.1	1757.1	1754.3	1751.4	1748.5	1748.5	1731.3	1719.8	1714.1	1716.9	1711.2
32.5°	1645.2	1642.3	1639.4	1630.8	1633.7	1630.8	1616.5	1607.8	1599.2	1593.5	1590.6
35°	1501.6	1501.6	1498.7	1498.7	1498.7	1495.9	1481.5	1472.9	1467.2	1464.3	1455.7
37.5°	1343.7	1340.8	1338.0	1338.0	1338.0	1338.0	1329.3	1320.7	1320.7	1317.9	1312.1
40°	1165.7	1168.6	1171.4	1168.6	1177.2	1185.8	1174.3	1168.6	1165.7	1174.3	1162.8
42.5°	993.4	990.5	1004.9	1007.8	1007.8	1022.1	1025.0	1027.9	1025.0	1030.7	1030.7
45°	826.9	824.0	838.4	844.1	858.5	875.7	884.3	898.7	904.4	910.2	904.4
47.5°	669.0	680.5	691.9	706.3	717.8	746.5	763.7	778.1	783.8	792.4	792.4
50°	536.9	548.4	568.5	580.0	594.3	628.8	657.5	677.6	689.1	697.7	694.8
52.5°	413.4	433.5	459.4	470.9	491.0	531.2	562.7	585.7	600.1	608.7	611.6
55°	318.7	335.9	361.8	379.0	399.1	442.2	482.4	508.2	522.5	534.0	539.8
57.5°	235.4	255.5	284.2	298.6	321.6	370.4	404.8	436.4	453.6	468.0	470.9
60°	172.3	192.4	218.2	235.4	258.4	307.2	347.4	376.1	396.2	407.7	413.4
62.5°	123.5	143.6	169.4	186.6	206.7	249.8	290.0	318.7	338.8	353.2	361.8
65°	89.0	109.1	134.9	149.3	166.5	206.7	244.0	272.8	292.9	310.1	315.8
67.5°	66.0	80.4	103.4	117.7	134.9	166.5	198.1	223.9	244.0	258.4	264.1
70°	48.8	60.3	80.4	89.0	100.5	129.2	155.0	178.0	195.2	206.7	212.5
72.5°	34.5	43.1	57.4	66.0	74.6	97.6	117.7	134.9	146.4	157.9	163.7
75°	23.0	28.7	40.2	45.9	51.7	68.9	83.3	97.6	106.2	114.8	117.7
77.5°	14.4	20.1	28.7	31.6	37.3	45.9	57.4	66.0	71.8	77.5	83.3
80°	8.6	11.5	17.2	20.1	23.0	31.6	37.3	43.1	48.8	54.6	57.4
82.5°	5.7	8.6	11.5	11.5	14.4	17.2	23.0	28.7	31.6	34.5	37.3
85°	2.9	2.9	5.7	5.7	8.6	8.6	11.5	14.4	17.2	20.1	23.0
87.5°	2.9	2.9	2.9	2.9	5.7	5.7	8.6	8.6	8.6	11.5	11.5
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: P252731

CATALOG NUMBER: LD6B60D010TE EU6B60709024 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2021.3	2029.9	2021.3	2027.0	2024.2	2024.2	2021.3	2024.2
5°	2029.9	2041.4	2029.9	2038.5	2032.8	2032.8	2032.8	2035.6
7.5°	2038.5	2050.0	2041.4	2050.0	2047.1	2044.3	2044.3	2050.0
10°	2047.1	2055.7	2050.0	2058.6	2055.7	2052.9	2052.9	2058.6
12.5°	2047.1	2058.6	2052.9	2061.5	2058.6	2055.7	2055.7	2058.6
15°	2038.5	2052.9	2044.3	2052.9	2050.0	2047.1	2047.1	2052.9
17.5°	2012.7	2024.2	2018.4	2024.2	2024.2	2021.3	2024.2	2027.0
20°	1978.2	1986.8	1981.1	1986.8	1986.8	1981.1	1984.0	1986.8
22.5°	1929.4	1938.0	1932.3	1938.0	1935.1	1932.3	1932.3	1929.4
25°	1869.1	1880.6	1872.0	1877.7	1872.0	1866.2	1866.2	1869.1
27.5°	1794.5	1803.1	1791.6	1797.3	1791.6	1785.8	1785.8	1783.0
30°	1696.8	1699.7	1691.1	1696.8	1691.1	1688.2	1682.5	1682.5
32.5°	1579.1	1582.0	1573.4	1573.4	1567.6	1567.6	1556.2	1564.8
35°	1441.3	1444.2	1441.3	1438.4	1429.8	1427.0	1424.1	1424.1
37.5°	1297.8	1297.8	1289.1	1286.3	1280.5	1274.8	1277.7	1269.0
40°	1151.3	1148.5	1139.8	1142.7	1139.8	1131.2	1128.4	1125.5
42.5°	1013.5	1013.5	1004.9	1007.8	1002.0	999.2	990.5	993.4
45°	892.9	892.9	884.3	884.3	881.4	872.8	875.7	870.0
47.5°	783.8	783.8	781.0	781.0	772.3	769.5	769.5	769.5
50°	689.1	689.1	689.1	689.1	686.2	683.3	680.5	683.3
52.5°	608.7	614.4	611.6	611.6	608.7	605.8	602.9	602.9
55°	536.9	539.8	539.8	542.6	539.8	536.9	539.8	536.9
57.5°	473.7	479.5	479.5	479.5	479.5	479.5	476.6	473.7
60°	419.2	422.1	422.1	424.9	424.9	424.9	422.1	422.1
62.5°	364.6	370.4	373.2	373.2	376.1	373.2	373.2	373.2
65°	321.6	327.3	330.2	327.3	330.2	330.2	327.3	327.3
67.5°	269.9	275.6	275.6	275.6	275.6	278.5	275.6	275.6
70°	218.2	223.9	221.1	223.9	223.9	223.9	223.9	223.9
72.5°	166.5	169.4	172.3	172.3	175.1	172.3	172.3	172.3
75°	120.6	126.3	126.3	126.3	126.3	129.2	129.2	129.2
77.5°	86.1	89.0	89.0	91.9	91.9	91.9	91.9	94.7
80°	60.3	60.3	63.2	63.2	66.0	66.0	66.0	66.0
82.5°	40.2	43.1	43.1	43.1	43.1	43.1	43.1	43.1
85°	23.0	25.8	25.8	25.8	25.8	28.7	28.7	28.7
87.5°	14.4	14.4	14.4	14.4	14.4	14.4	11.5	11.5
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)