

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: P252167

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252167
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: LD6B30D010 EU6B30508027 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: 3598.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

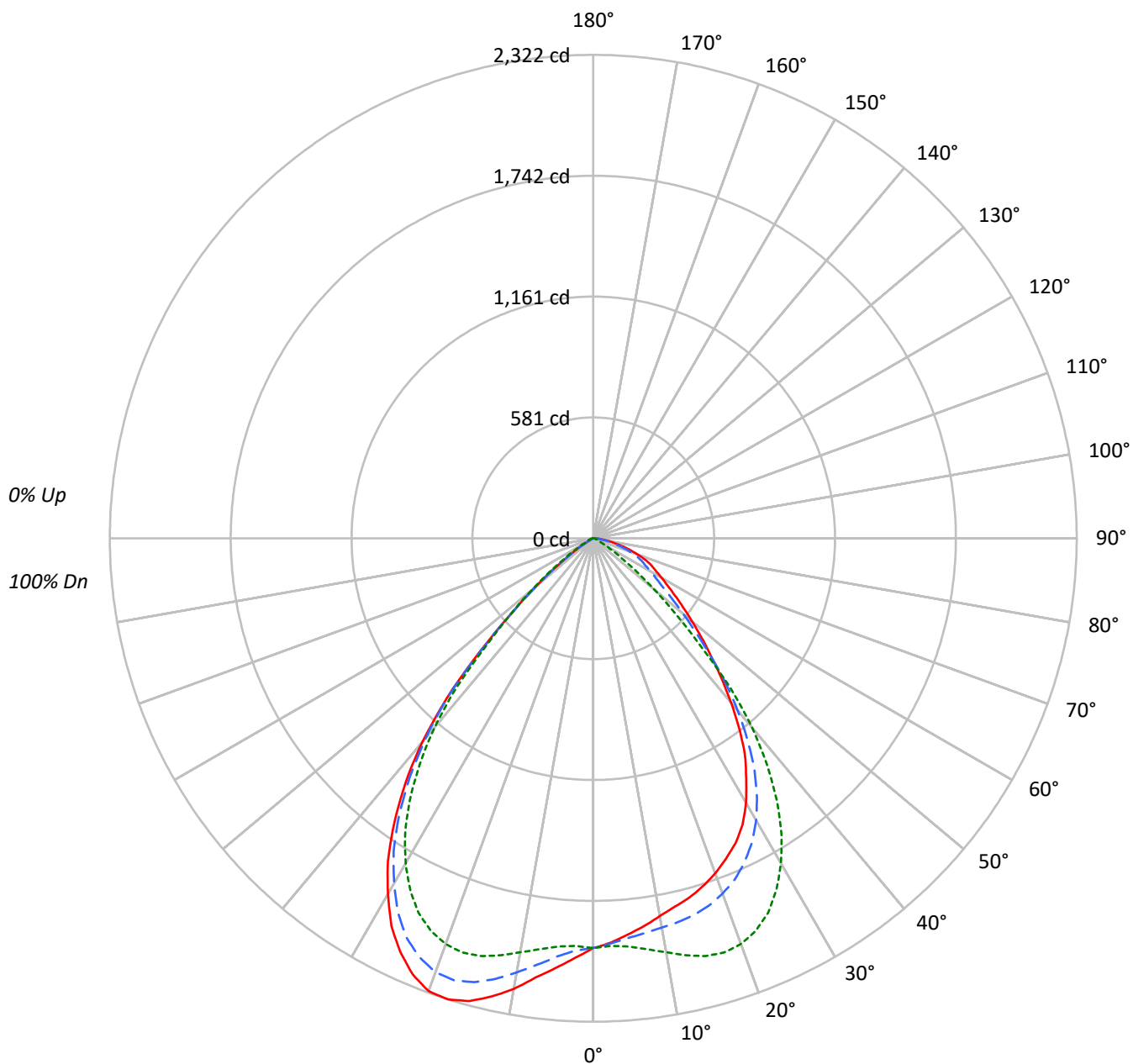
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	128420	128420	128420
5°	125092	128910	135688
10°	122047	133766	145611
15°	120623	140319	155448
20°	118895	143979	160697
25°	116364	142912	157813
30°	110574	135811	148573
35°	101164	122453	132639
40°	87508	101126	108825
45°	73793	66329	71182
50°	62644	38386	36102
55°	54369	18404	13911
60°	49113	8599	3432
65°	47639	4940	1158
70°	42709	3949	1068
75°	35113	2848	479
80°	26149	1428	0
85°	22531	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	5.3
10°-20°	579.4	16.1
20°-30°	885.3	24.6
30°-40°	926.0	25.7
40°-50°	600.7	16.7
50°-60°	238.5	6.6
60°-70°	113.1	3.1
70°-80°	53.8	1.5
80°-90°	11.0	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°	1654.9	46.0
0°-40°	2580.9	71.7
0°-60°	3420.1	95.1
0°-90°	3598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1968	1968	1968	1968	1968	
5°	1910	1927	1968	2017	2072	180
15°	1786	1872	2078	2207	2302	503
25°	1616	1718	1985	2119	2192	740
35°	1270	1347	1538	1628	1665	786
45°	800	792	719	762	772	622
55°	478	406	162	126	122	433
65°	309	256	32	8	8	301
75°	139	113	11	4	2	150
85°	30	19	0	0	0	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°	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4
2.5°	1943.9	1947.7	1927.0	1921.3	1936.4	1942.0	1943.9	1938.3	1940.2	1947.7	1947.7
5°	1910.1	1913.8	1895.0	1889.4	1904.4	1908.2	1913.8	1911.9	1917.6	1928.9	1927.0
7.5°	1878.1	1883.7	1863.0	1855.5	1874.3	1883.7	1887.5	1887.5	1895.0	1910.1	1911.9
10°	1842.3	1849.8	1831.0	1827.3	1848.0	1857.4	1859.2	1863.0	1874.3	1895.0	1898.8
12.5°	1812.2	1819.7	1806.6	1800.9	1823.5	1832.9	1836.7	1844.2	1857.4	1883.7	1887.5
15°	1785.9	1791.5	1776.4	1772.7	1795.3	1806.6	1808.4	1819.7	1836.7	1866.8	1872.4
17.5°	1752.0	1755.7	1744.5	1740.7	1763.3	1774.6	1776.4	1789.6	1810.3	1840.4	1849.8
20°	1712.5	1716.2	1704.9	1701.2	1723.8	1736.9	1738.8	1750.1	1774.6	1806.6	1816.0
22.5°	1665.4	1672.9	1659.8	1656.0	1678.6	1689.9	1695.5	1704.9	1729.4	1761.4	1774.6
25°	1616.5	1616.5	1607.1	1605.2	1625.9	1639.1	1637.2	1650.4	1674.8	1706.8	1718.1
27.5°	1552.5	1550.6	1541.2	1539.3	1561.9	1573.2	1569.4	1582.6	1605.2	1637.2	1648.5
30°	1467.8	1471.6	1458.4	1454.7	1473.5	1492.3	1490.4	1503.6	1526.2	1556.3	1563.8
32.5°	1366.2	1370.0	1368.1	1362.4	1379.4	1388.8	1394.4	1403.8	1422.7	1454.7	1462.2
35°	1270.2	1264.6	1257.1	1257.1	1274.0	1289.1	1283.4	1294.7	1313.5	1345.5	1347.4
37.5°	1151.7	1149.8	1146.0	1142.3	1161.1	1164.9	1166.7	1174.3	1191.2	1217.5	1213.8
40°	1027.5	1029.4	1027.5	1019.9	1031.2	1046.3	1044.4	1048.2	1063.2	1082.0	1076.4
42.5°	910.8	910.8	910.8	903.3	916.4	924.0	927.7	925.9	929.6	946.6	939.0
45°	799.8	801.7	799.8	797.9	799.8	803.5	799.8	797.9	797.9	803.5	792.2
47.5°	703.8	703.8	698.2	692.5	698.2	700.0	694.4	688.7	686.9	685.0	666.2
50°	617.2	615.4	613.5	604.1	609.7	611.6	604.1	600.3	592.8	583.4	560.8
52.5°	542.0	540.1	538.2	528.8	532.6	534.4	526.9	519.4	510.0	502.4	474.2
55°	478.0	476.1	476.1	470.5	466.7	470.5	462.9	457.3	444.1	434.7	406.5
57.5°	423.4	423.4	419.6	414.0	415.9	415.9	408.4	400.8	389.5	378.2	355.7
60°	376.4	376.4	376.4	370.7	370.7	370.7	367.0	359.4	350.0	338.7	316.1
62.5°	338.7	338.7	336.8	331.2	333.1	333.1	329.3	321.8	312.4	304.9	282.3
65°	308.6	308.6	308.6	303.0	303.0	304.9	301.1	293.6	286.0	276.6	255.9
67.5°	271.0	269.1	269.1	265.3	267.2	269.1	265.3	259.7	250.3	244.6	225.8
70°	223.9	225.8	227.7	222.1	223.9	223.9	222.1	216.4	210.8	205.1	188.2
72.5°	182.5	182.5	180.7	178.8	178.8	180.7	176.9	171.2	167.5	163.7	150.5
75°	139.3	137.4	139.3	135.5	135.5	135.5	131.7	129.8	128.0	122.3	112.9
77.5°	101.6	99.7	99.7	96.0	97.9	97.9	96.0	92.2	88.4	86.6	79.0
80°	69.6	69.6	69.6	67.7	67.7	65.9	65.9	64.0	60.2	58.3	54.6
82.5°	47.0	47.0	47.0	45.2	45.2	45.2	43.3	41.4	39.5	37.6	33.9
85°	30.1	30.1	30.1	28.2	28.2	28.2	26.3	26.3	24.5	22.6	18.8
87.5°	16.9	16.9	16.9	15.1	15.1	15.1	15.1	15.1	13.2	11.3	9.4
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°	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4
2.5°	1960.9	1934.5	1951.5	1951.5	1945.8	1960.9	1970.3	1977.8	1975.9	1959.0	1957.1
5°	1945.8	1923.2	1942.0	1943.9	1938.3	1959.0	1972.2	1981.6	1983.4	1968.4	1970.3
7.5°	1934.5	1915.7	1940.2	1947.7	1945.8	1964.6	1979.7	1994.7	2002.3	1991.0	1992.9
10°	1928.9	1913.8	1940.2	1951.5	1953.3	1974.0	1996.6	2017.3	2026.7	2019.2	2024.8
12.5°	1921.3	1911.9	1942.0	1959.0	1966.5	1987.2	2015.4	2039.9	2055.0	2051.2	2062.5
15°	1913.8	1906.3	1942.0	1966.5	1975.9	1994.7	2026.7	2062.5	2079.4	2077.5	2092.6
17.5°	1895.0	1893.1	1930.8	1957.1	1970.3	1992.9	2023.0	2066.2	2083.2	2086.9	2105.8
20°	1864.9	1864.9	1906.3	1934.5	1949.6	1970.3	2007.9	2049.3	2070.0	2073.8	2094.5
22.5°	1823.5	1827.3	1866.8	1895.0	1917.6	1932.6	1972.2	2015.4	2034.3	2039.9	2062.5
25°	1768.9	1772.7	1810.3	1838.5	1863.0	1879.9	1917.6	1957.1	1979.7	1985.3	2002.3
27.5°	1697.4	1704.9	1740.7	1768.9	1789.6	1800.9	1840.4	1881.8	1898.8	1904.4	1921.3
30°	1614.6	1616.5	1652.2	1676.7	1697.4	1706.8	1740.7	1784.0	1797.1	1802.8	1827.3
32.5°	1513.0	1511.1	1545.0	1567.6	1584.5	1595.8	1631.5	1659.8	1672.9	1682.4	1695.5
35°	1390.7	1388.8	1413.3	1439.6	1452.8	1456.5	1492.3	1522.4	1529.9	1537.5	1554.4
37.5°	1253.3	1253.3	1274.0	1287.2	1302.2	1307.9	1324.8	1358.7	1371.9	1370.0	1383.1
40°	1108.4	1100.9	1115.9	1129.1	1132.9	1134.7	1151.7	1178.0	1187.4	1187.4	1196.8
42.5°	956.0	944.7	946.6	954.1	957.8	944.7	956.0	972.9	967.3	974.8	976.7
45°	794.1	777.2	769.7	752.7	756.5	743.3	735.8	739.6	737.7	718.9	722.6
47.5°	662.4	632.3	619.1	594.7	589.0	574.0	564.5	547.6	532.6	532.6	523.1
50°	551.4	521.3	494.9	466.7	457.3	444.1	423.4	400.8	389.5	378.2	368.8
52.5°	462.9	430.9	398.9	368.8	355.7	338.7	310.5	287.9	267.2	255.9	244.6
55°	391.4	355.7	321.8	289.8	272.9	255.9	227.7	201.4	176.9	161.8	152.4
57.5°	336.8	303.0	267.2	233.3	218.3	199.5	169.4	141.1	118.6	101.6	92.2
60°	297.3	263.5	231.5	195.7	180.7	161.8	129.8	103.5	80.9	65.9	54.6
62.5°	263.5	233.3	199.5	167.5	152.4	133.6	103.5	77.2	56.5	41.4	32.0
65°	239.0	208.9	180.7	148.7	135.5	116.7	88.4	64.0	45.2	32.0	22.6
67.5°	210.8	184.4	156.2	129.8	116.7	101.6	75.3	54.6	37.6	26.3	18.8
70°	176.9	156.2	131.7	107.3	97.9	84.7	62.1	45.2	30.1	20.7	15.1
72.5°	141.1	124.2	105.4	86.6	79.0	65.9	50.8	35.8	22.6	15.1	11.3
75°	107.3	94.1	79.0	65.9	58.3	50.8	37.6	26.3	16.9	11.3	7.5
77.5°	73.4	67.7	56.5	45.2	41.4	35.8	24.5	16.9	11.3	7.5	3.8
80°	50.8	45.2	37.6	30.1	26.3	22.6	15.1	11.3	5.6	3.8	1.9
82.5°	32.0	26.3	22.6	18.8	16.9	13.2	9.4	5.6	3.8	1.9	1.9
85°	16.9	15.1	13.2	9.4	9.4	7.5	5.6	3.8	1.9	0.0	0.0
87.5°	9.4	7.5	5.6	3.8	3.8	1.9	1.9	1.9	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°	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4
2.5°	1979.7	1979.7	1977.8	2000.4	1974.0	2000.4	1987.2	2000.4	1981.6	1979.7	1981.6
5°	1994.7	2000.4	2002.3	2023.0	1998.5	2030.5	2019.2	2030.5	2017.3	2021.1	2026.7
7.5°	2024.8	2034.3	2032.4	2058.7	2034.3	2070.0	2062.5	2079.4	2066.2	2070.0	2077.5
10°	2058.7	2070.0	2071.9	2098.2	2075.7	2118.9	2109.5	2128.3	2117.1	2122.7	2132.1
12.5°	2098.2	2111.4	2113.3	2143.4	2118.9	2164.1	2158.5	2177.3	2167.9	2173.5	2184.8
15°	2128.3	2147.2	2150.9	2181.0	2154.7	2201.7	2198.0	2222.4	2207.4	2216.8	2226.2
17.5°	2143.4	2160.3	2167.9	2196.1	2173.5	2220.6	2216.8	2237.5	2226.2	2235.6	2246.9
20°	2134.0	2154.7	2160.3	2188.6	2166.0	2213.0	2207.4	2228.1	2216.8	2224.3	2235.6
22.5°	2100.1	2120.8	2128.3	2154.7	2134.0	2177.3	2175.4	2194.2	2179.2	2188.6	2198.0
25°	2039.9	2062.5	2066.2	2090.7	2068.1	2113.3	2109.5	2130.2	2118.9	2124.6	2137.8
27.5°	1953.3	1979.7	1985.3	2006.0	1989.1	2026.7	2026.7	2043.7	2030.5	2030.5	2043.7
30°	1849.8	1876.2	1879.9	1896.9	1881.8	1915.7	1917.6	1934.5	1913.8	1925.1	1927.0
32.5°	1723.8	1740.7	1752.0	1767.0	1744.5	1787.7	1782.1	1795.3	1784.0	1784.0	1793.4
35°	1571.3	1592.0	1597.7	1616.5	1597.7	1631.5	1631.5	1639.1	1627.8	1627.8	1642.8
37.5°	1405.7	1420.8	1422.7	1441.5	1426.4	1454.7	1452.8	1458.4	1447.1	1454.7	1454.7
40°	1211.9	1223.2	1227.0	1236.4	1234.5	1255.2	1253.3	1257.1	1251.4	1253.3	1257.1
42.5°	986.1	1001.1	1008.7	1016.2	1004.9	1033.1	1027.5	1033.1	1031.2	1033.1	1038.8
45°	726.4	737.7	743.3	745.2	741.4	758.4	771.5	760.3	762.1	758.4	765.9
47.5°	525.0	526.9	523.1	534.4	525.0	532.6	536.3	538.2	526.9	525.0	532.6
50°	359.4	368.8	355.7	361.3	359.4	367.0	363.2	365.1	353.8	359.4	355.7
52.5°	239.0	237.1	233.3	235.2	231.5	231.5	231.5	235.2	227.7	223.9	220.2
55°	144.9	141.1	133.6	131.7	131.7	133.6	129.8	126.1	126.1	124.2	124.2
57.5°	84.7	79.0	75.3	73.4	69.6	67.7	65.9	65.9	62.1	62.1	62.1
60°	47.0	41.4	37.6	33.9	33.9	32.0	30.1	28.2	28.2	28.2	26.3
62.5°	24.5	20.7	16.9	15.1	15.1	13.2	11.3	11.3	11.3	11.3	9.4
65°	16.9	13.2	11.3	9.4	9.4	7.5	7.5	7.5	7.5	7.5	7.5
67.5°	13.2	11.3	9.4	7.5	7.5	7.5	5.6	5.6	5.6	5.6	5.6
70°	11.3	7.5	7.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	7.5	7.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
75°	5.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	1.9	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: P252167

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4	1968.4
2.5°	1998.5	1996.6	1998.5	2002.3	1994.7	2017.3	2006.0	2017.3
5°	2041.8	2043.7	2045.5	2051.2	2041.8	2070.0	2055.0	2071.9
7.5°	2098.2	2100.1	2102.0	2107.6	2102.0	2130.2	2113.3	2128.3
10°	2156.6	2160.3	2160.3	2169.7	2164.1	2190.4	2179.2	2198.0
12.5°	2211.1	2214.9	2218.7	2224.3	2220.6	2248.8	2239.4	2254.4
15°	2254.4	2262.0	2263.8	2271.4	2267.6	2297.7	2286.4	2301.5
17.5°	2275.1	2282.7	2282.7	2292.1	2288.3	2320.3	2305.2	2322.2
20°	2263.8	2269.5	2271.4	2280.8	2277.0	2309.0	2293.9	2314.6
22.5°	2228.1	2230.0	2231.8	2241.3	2239.4	2267.6	2254.4	2267.6
25°	2162.2	2167.9	2166.0	2173.5	2173.5	2196.1	2181.0	2192.3
27.5°	2068.1	2073.8	2073.8	2083.2	2075.7	2098.2	2083.2	2100.1
30°	1953.3	1959.0	1955.2	1962.7	1955.2	1977.8	1966.5	1972.2
32.5°	1816.0	1816.0	1817.8	1819.7	1816.0	1836.7	1825.4	1836.7
35°	1652.2	1656.0	1657.9	1659.8	1656.0	1671.1	1657.9	1665.4
37.5°	1467.8	1477.2	1475.4	1477.2	1471.6	1490.4	1479.1	1482.9
40°	1270.2	1270.2	1268.4	1272.1	1266.5	1281.5	1274.0	1277.8
42.5°	1040.6	1046.3	1038.8	1048.2	1033.1	1053.8	1046.3	1040.6
45°	781.0	773.4	771.5	773.4	767.8	769.7	775.3	771.5
47.5°	532.6	532.6	528.8	523.1	530.7	532.6	525.0	525.0
50°	357.5	357.5	353.8	351.9	355.7	353.8	350.0	355.7
52.5°	227.7	220.2	220.2	223.9	220.2	216.4	222.1	218.3
55°	124.2	120.4	120.4	124.2	120.4	120.4	118.6	122.3
57.5°	60.2	62.1	60.2	60.2	60.2	60.2	58.3	60.2
60°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
62.5°	11.3	11.3	9.4	9.4	9.4	9.4	9.4	9.4
65°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
67.5°	5.6	5.6	5.6	5.6	5.6	7.5	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	5.6	5.6	7.5	7.5	7.5	7.5	7.5	7.5
75°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
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)