

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: P252168

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252168
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 EU6B30508030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3762.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

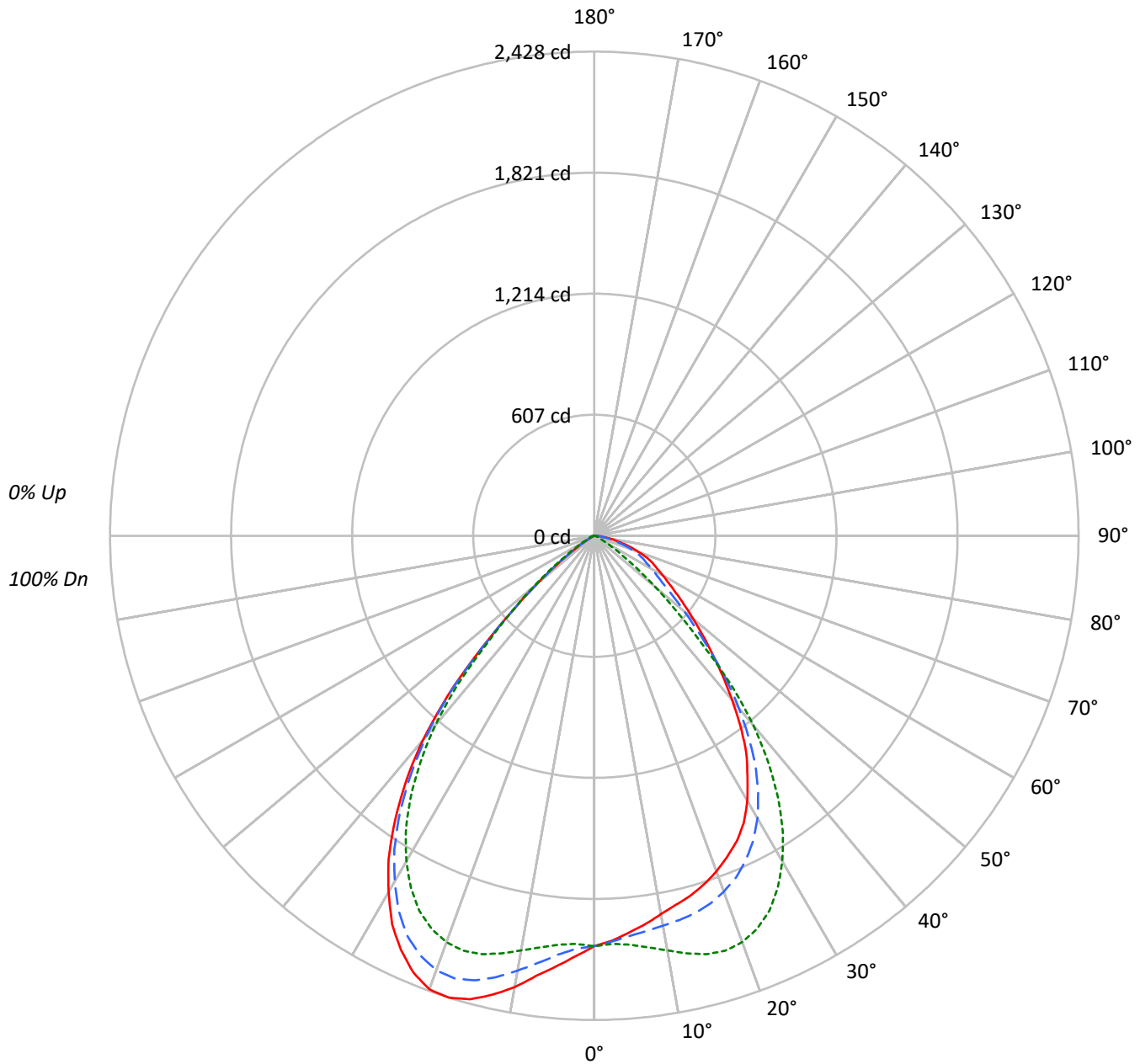
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	134272	134272	134272
5°	130790	134785	141871
10°	127612	139861	152249
15°	126121	146715	162533
20°	124310	150540	168022
25°	121669	149427	165011
30°	115614	142003	155337
35°	105775	128028	138684
40°	91493	105742	113781
45°	77151	69346	74430
50°	65506	40142	37747
55°	56849	19245	14548
60°	51344	8990	3588
65°	49816	5156	1220
70°	44655	4120	1125
75°	36701	2974	504
80°	27351	1465	0
85°	23579	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	5.3
10°-20°	605.9	16.1
20°-30°	925.7	24.6
30°-40°	968.2	25.7
40°-50°	628.1	16.7
50°-60°	249.4	6.6
60°-70°	118.3	3.1
70°-80°	56.3	1.5
80°-90°	11.5	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°	1730.3	46.0
0°-40°	2698.5	71.7
0°-60°	3576.0	95.1
0°-90°	3762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3762.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2058	2058	2058	2058	2058	
5°	1997	2015	2058	2109	2166	189
15°	1867	1958	2172	2308	2406	526
25°	1690	1796	2076	2216	2292	774
35°	1328	1409	1608	1702	1741	821
45°	836	828	752	797	807	651
55°	500	425	169	132	128	453
65°	323	268	33	8	8	315
75°	146	118	12	4	2	157
85°	32	20	0	0	0	37
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°	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1
2.5°	2032.5	2036.5	2014.8	2008.9	2024.7	2030.6	2032.5	2026.6	2028.6	2036.5	2036.5
5°	1997.1	2001.1	1981.4	1975.5	1991.2	1995.1	2001.1	1999.1	2005.0	2016.8	2014.8
7.5°	1963.7	1969.6	1947.9	1940.1	1959.7	1969.6	1973.5	1973.5	1981.4	1997.1	1999.1
10°	1926.3	1934.2	1914.5	1910.5	1932.2	1942.0	1944.0	1947.9	1959.7	1981.4	1985.3
12.5°	1894.8	1902.7	1888.9	1883.0	1906.6	1916.4	1920.4	1928.2	1942.0	1969.6	1973.5
15°	1867.3	1873.2	1857.4	1853.5	1877.1	1888.9	1890.9	1902.7	1920.4	1951.9	1957.8
17.5°	1831.8	1835.8	1824.0	1820.0	1843.6	1855.4	1857.4	1871.2	1892.8	1924.3	1934.2
20°	1790.5	1794.5	1782.6	1778.7	1802.3	1816.1	1818.1	1829.9	1855.4	1888.9	1898.7
22.5°	1741.3	1749.2	1735.4	1731.5	1755.1	1766.9	1772.8	1782.6	1808.2	1841.7	1855.4
25°	1690.2	1690.2	1680.3	1678.4	1700.0	1713.8	1711.8	1725.6	1751.2	1784.6	1796.4
27.5°	1623.3	1621.3	1611.5	1609.5	1633.1	1644.9	1641.0	1654.8	1678.4	1711.8	1723.6
30°	1534.7	1538.7	1524.9	1521.0	1540.6	1560.3	1558.3	1572.1	1595.7	1627.2	1635.1
32.5°	1428.5	1432.4	1430.4	1424.5	1442.3	1452.1	1458.0	1467.8	1487.5	1521.0	1528.8
35°	1328.1	1322.2	1314.4	1314.4	1332.1	1347.8	1341.9	1353.7	1373.4	1406.8	1408.8
37.5°	1204.2	1202.2	1198.3	1194.3	1214.0	1217.9	1219.9	1227.8	1245.5	1273.0	1269.1
40°	1074.3	1076.3	1074.3	1066.4	1078.2	1094.0	1092.0	1096.0	1111.7	1131.4	1125.5
42.5°	952.3	952.3	952.3	944.4	958.2	966.1	970.0	968.1	972.0	989.7	981.8
45°	836.2	838.2	836.2	834.3	836.2	840.2	836.2	834.3	834.3	840.2	828.4
47.5°	735.9	735.9	730.0	724.1	730.0	731.9	726.0	720.1	718.2	716.2	696.5
50°	645.4	643.4	641.4	631.6	637.5	639.5	631.6	627.7	619.8	610.0	586.3
52.5°	566.7	564.7	562.7	552.9	556.8	558.8	550.9	543.1	533.2	525.3	495.8
55°	499.8	497.8	497.8	491.9	488.0	491.9	484.0	478.1	464.4	454.5	425.0
57.5°	442.7	442.7	438.8	432.9	434.8	434.8	427.0	419.1	407.3	395.5	371.9
60°	393.5	393.5	393.5	387.6	387.6	387.6	383.7	375.8	366.0	354.2	330.6
62.5°	354.2	354.2	352.2	346.3	348.3	348.3	344.3	336.5	326.6	318.8	295.1
65°	322.7	322.7	322.7	316.8	316.8	318.8	314.8	306.9	299.1	289.2	267.6
67.5°	283.3	281.4	281.4	277.4	279.4	281.4	277.4	271.5	261.7	255.8	236.1
70°	234.1	236.1	238.1	232.2	234.1	234.1	232.2	226.3	220.4	214.5	196.8
72.5°	190.9	190.9	188.9	186.9	186.9	188.9	185.0	179.1	175.1	171.2	157.4
75°	145.6	143.6	145.6	141.7	141.7	141.7	137.7	135.8	133.8	127.9	118.1
77.5°	106.3	104.3	104.3	100.3	102.3	102.3	100.3	96.4	92.5	90.5	82.6
80°	72.8	72.8	72.8	70.8	70.8	68.9	68.9	66.9	63.0	61.0	57.1
82.5°	49.2	49.2	49.2	47.2	47.2	47.2	45.3	43.3	41.3	39.4	35.4
85°	31.5	31.5	31.5	29.5	29.5	29.5	27.5	27.5	25.6	23.6	19.7
87.5°	17.7	17.7	17.7	15.7	15.7	15.7	15.7	15.7	13.8	11.8	9.8
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°	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1
2.5°	2050.2	2022.7	2040.4	2040.4	2034.5	2050.2	2060.1	2067.9	2066.0	2048.3	2046.3
5°	2034.5	2010.9	2030.6	2032.5	2026.6	2048.3	2062.0	2071.9	2073.9	2058.1	2060.1
7.5°	2022.7	2003.0	2028.6	2036.5	2034.5	2054.2	2069.9	2085.7	2093.5	2081.7	2083.7
10°	2016.8	2001.1	2028.6	2040.4	2042.4	2064.0	2087.6	2109.3	2119.1	2111.2	2117.1
12.5°	2008.9	1999.1	2030.6	2048.3	2056.1	2077.8	2107.3	2132.9	2148.6	2144.7	2156.5
15°	2001.1	1993.2	2030.6	2056.1	2066.0	2085.7	2119.1	2156.5	2174.2	2172.2	2188.0
17.5°	1981.4	1979.4	2018.8	2046.3	2060.1	2083.7	2115.2	2160.4	2178.1	2182.1	2201.7
20°	1949.9	1949.9	1993.2	2022.7	2038.4	2060.1	2099.4	2142.7	2164.4	2168.3	2189.9
22.5°	1906.6	1910.5	1951.9	1981.4	2005.0	2020.7	2062.0	2107.3	2127.0	2132.9	2156.5
25°	1849.5	1853.5	1892.8	1922.3	1947.9	1965.6	2005.0	2046.3	2069.9	2075.8	2093.5
27.5°	1774.8	1782.6	1820.0	1849.5	1871.2	1883.0	1924.3	1967.6	1985.3	1991.2	2008.9
30°	1688.2	1690.2	1727.6	1753.1	1774.8	1784.6	1820.0	1865.3	1879.1	1885.0	1910.5
32.5°	1582.0	1580.0	1615.4	1639.0	1656.7	1668.5	1705.9	1735.4	1749.2	1759.0	1772.8
35°	1454.1	1452.1	1477.7	1505.2	1519.0	1522.9	1560.3	1591.8	1599.7	1607.5	1625.2
37.5°	1310.4	1310.4	1332.1	1345.8	1361.6	1367.5	1385.2	1420.6	1434.4	1432.4	1446.2
40°	1158.9	1151.0	1166.8	1180.6	1184.5	1186.5	1204.2	1231.7	1241.6	1241.6	1251.4
42.5°	999.5	987.7	989.7	997.6	1001.5	987.7	999.5	1017.2	1011.3	1019.2	1021.2
45°	830.3	812.6	804.7	787.0	791.0	777.2	769.3	773.3	771.3	751.6	755.6
47.5°	692.6	661.1	647.3	621.8	615.9	600.1	590.3	572.6	556.8	556.8	547.0
50°	576.5	545.0	517.5	488.0	478.1	464.4	442.7	419.1	407.3	395.5	385.6
52.5°	484.0	450.6	417.1	385.6	371.9	354.2	324.7	301.0	279.4	267.6	255.8
55°	409.3	371.9	336.5	303.0	285.3	267.6	238.1	210.5	185.0	169.2	159.4
57.5°	352.2	316.8	279.4	244.0	228.2	208.6	177.1	147.6	124.0	106.3	96.4
60°	310.9	275.5	242.0	204.6	188.9	169.2	135.8	108.2	84.6	68.9	57.1
62.5°	275.5	244.0	208.6	175.1	159.4	139.7	108.2	80.7	59.0	43.3	33.4
65°	249.9	218.4	188.9	155.4	141.7	122.0	92.5	66.9	47.2	33.4	23.6
67.5°	220.4	192.8	163.3	135.8	122.0	106.3	78.7	57.1	39.4	27.5	19.7
70°	185.0	163.3	137.7	112.2	102.3	88.5	64.9	47.2	31.5	21.6	15.7
72.5°	147.6	129.9	110.2	90.5	82.6	68.9	53.1	37.4	23.6	15.7	11.8
75°	112.2	98.4	82.6	68.9	61.0	53.1	39.4	27.5	17.7	11.8	7.9
77.5°	76.7	70.8	59.0	47.2	43.3	37.4	25.6	17.7	11.8	7.9	3.9
80°	53.1	47.2	39.4	31.5	27.5	23.6	15.7	11.8	5.9	3.9	2.0
82.5°	33.4	27.5	23.6	19.7	17.7	13.8	9.8	5.9	3.9	2.0	2.0
85°	17.7	15.7	13.8	9.8	9.8	7.9	5.9	3.9	2.0	0.0	0.0
87.5°	9.8	7.9	5.9	3.9	3.9	2.0	2.0	2.0	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°	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1
2.5°	2069.9	2069.9	2067.9	2091.6	2064.0	2091.6	2077.8	2091.6	2071.9	2069.9	2071.9
5°	2085.7	2091.6	2093.5	2115.2	2089.6	2123.0	2111.2	2123.0	2109.3	2113.2	2119.1
7.5°	2117.1	2127.0	2125.0	2152.6	2127.0	2164.4	2156.5	2174.2	2160.4	2164.4	2172.2
10°	2152.6	2164.4	2166.3	2193.9	2170.3	2215.5	2205.7	2225.4	2213.6	2219.5	2229.3
12.5°	2193.9	2207.6	2209.6	2241.1	2215.5	2262.7	2256.8	2276.5	2266.7	2272.6	2284.4
15°	2225.4	2245.0	2249.0	2280.4	2252.9	2302.1	2298.2	2323.7	2308.0	2317.8	2327.7
17.5°	2241.1	2258.8	2266.7	2296.2	2272.6	2321.8	2317.8	2339.5	2327.7	2337.5	2349.3
20°	2231.3	2252.9	2258.8	2288.3	2264.7	2313.9	2308.0	2329.6	2317.8	2325.7	2337.5
22.5°	2195.8	2217.5	2225.4	2252.9	2231.3	2276.5	2274.5	2294.2	2278.5	2288.3	2298.2
25°	2132.9	2156.5	2160.4	2186.0	2162.4	2209.6	2205.7	2227.3	2215.5	2221.4	2235.2
27.5°	2042.4	2069.9	2075.8	2097.5	2079.8	2119.1	2119.1	2136.8	2123.0	2123.0	2136.8
30°	1934.2	1961.7	1965.6	1983.3	1967.6	2003.0	2005.0	2022.7	2001.1	2012.9	2014.8
32.5°	1802.3	1820.0	1831.8	1847.6	1824.0	1869.2	1863.3	1877.1	1865.3	1865.3	1875.1
35°	1642.9	1664.6	1670.5	1690.2	1670.5	1705.9	1705.9	1713.8	1702.0	1702.0	1717.7
37.5°	1469.8	1485.5	1487.5	1507.2	1491.4	1521.0	1519.0	1524.9	1513.1	1521.0	1521.0
40°	1267.1	1278.9	1282.9	1292.7	1290.7	1312.4	1310.4	1314.4	1308.5	1310.4	1314.4
42.5°	1031.0	1046.8	1054.6	1062.5	1050.7	1080.2	1074.3	1080.2	1078.2	1080.2	1086.1
45°	759.5	771.3	777.2	779.2	775.2	792.9	806.7	794.9	796.9	792.9	800.8
47.5°	549.0	550.9	547.0	558.8	549.0	556.8	560.8	562.7	550.9	549.0	556.8
50°	375.8	385.6	371.9	377.8	375.8	383.7	379.7	381.7	369.9	375.8	371.9
52.5°	249.9	247.9	244.0	246.0	242.0	242.0	242.0	246.0	238.1	234.1	230.2
55°	151.5	147.6	139.7	137.7	137.7	139.7	135.8	131.8	131.8	129.9	129.9
57.5°	88.5	82.6	78.7	76.7	72.8	70.8	68.9	68.9	64.9	64.9	64.9
60°	49.2	43.3	39.4	35.4	35.4	33.4	31.5	29.5	29.5	29.5	27.5
62.5°	25.6	21.6	17.7	15.7	15.7	13.8	11.8	11.8	11.8	11.8	9.8
65°	17.7	13.8	11.8	9.8	9.8	7.9	7.9	7.9	7.9	7.9	7.9
67.5°	13.8	11.8	9.8	7.9	7.9	7.9	5.9	5.9	5.9	5.9	5.9
70°	11.8	7.9	7.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	7.9	7.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
75°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	2.0	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: P252168

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1	2058.1
2.5°	2089.6	2087.6	2089.6	2093.5	2085.7	2109.3	2097.5	2109.3
5°	2134.8	2136.8	2138.8	2144.7	2134.8	2164.4	2148.6	2166.3
7.5°	2193.9	2195.8	2197.8	2203.7	2197.8	2227.3	2209.6	2225.4
10°	2254.9	2258.8	2258.8	2268.6	2262.7	2290.3	2278.5	2298.2
12.5°	2311.9	2315.9	2319.8	2325.7	2321.8	2351.3	2341.4	2357.2
15°	2357.2	2365.1	2367.0	2374.9	2371.0	2402.4	2390.6	2406.4
17.5°	2378.8	2386.7	2386.7	2396.5	2392.6	2426.1	2410.3	2428.0
20°	2367.0	2372.9	2374.9	2384.7	2380.8	2414.2	2398.5	2420.1
22.5°	2329.6	2331.6	2333.6	2343.4	2341.4	2371.0	2357.2	2371.0
25°	2260.8	2266.7	2264.7	2272.6	2272.6	2296.2	2280.4	2292.3
27.5°	2162.4	2168.3	2168.3	2178.1	2170.3	2193.9	2178.1	2195.8
30°	2042.4	2048.3	2044.3	2052.2	2044.3	2067.9	2056.1	2062.0
32.5°	1898.7	1898.7	1900.7	1902.7	1898.7	1920.4	1908.6	1920.4
35°	1727.6	1731.5	1733.5	1735.4	1731.5	1747.2	1733.5	1741.3
37.5°	1534.7	1544.6	1542.6	1544.6	1538.7	1558.3	1546.5	1550.5
40°	1328.1	1328.1	1326.2	1330.1	1324.2	1339.9	1332.1	1336.0
42.5°	1088.1	1094.0	1086.1	1096.0	1080.2	1101.9	1094.0	1088.1
45°	816.6	808.7	806.7	808.7	802.8	804.7	810.7	806.7
47.5°	556.8	556.8	552.9	547.0	554.9	556.8	549.0	549.0
50°	373.8	373.8	369.9	367.9	371.9	369.9	366.0	371.9
52.5°	238.1	230.2	230.2	234.1	230.2	226.3	232.2	228.2
55°	129.9	125.9	125.9	129.9	125.9	125.9	124.0	127.9
57.5°	63.0	64.9	63.0	63.0	63.0	63.0	61.0	63.0
60°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
62.5°	11.8	11.8	9.8	9.8	9.8	9.8	9.8	9.8
65°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
67.5°	5.9	5.9	5.9	5.9	5.9	7.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	5.9	5.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)