

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: P252171

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252171
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 EU6B30508050 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: 3894.0 lumens
Efficiency: N/A
Efficacy: 139.1 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

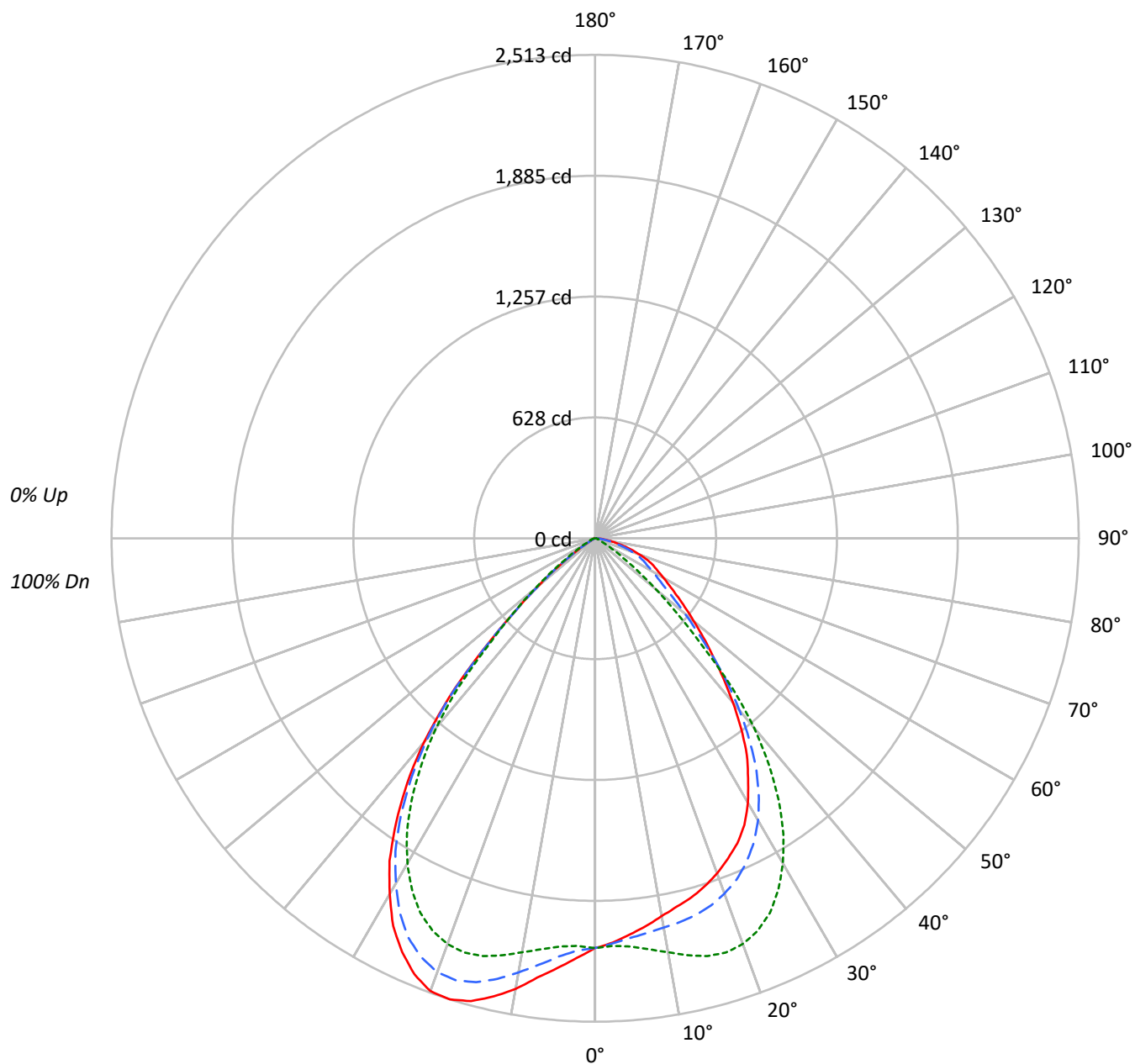
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	138982	138982	138982
5°	135381	139513	146848
10°	132090	144770	157589
15°	130545	151868	168234
20°	128670	155823	173923
25°	125938	154674	170799
30°	119675	146983	160792
35°	109487	132520	143551
40°	94704	109446	117775
45°	79864	71782	77041
50°	67800	41553	39066
55°	58840	19928	15060
60°	53145	9303	3719
65°	51560	5341	1250
70°	46238	4273	1164
75°	37987	3075	504
80°	28328	1540	0
85°	24403	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	5.3
10°-20°	627.1	16.1
20°-30°	958.2	24.6
30°-40°	1002.2	25.7
40°-50°	650.1	16.7
50°-60°	258.1	6.6
60°-70°	122.4	3.1
70°-80°	58.2	1.5
80°-90°	11.9	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°	1791.1	46.0
0°-40°	2793.2	71.7
0°-60°	3701.4	95.1
0°-90°	3894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3894.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2130	2130	2130	2130	2130	
5°	2067	2086	2130	2183	2242	195
15°	1933	2026	2248	2389	2491	545
25°	1750	1860	2149	2293	2373	801
35°	1375	1458	1664	1762	1802	850
45°	866	857	778	825	835	674
55°	517	440	175	136	132	469
65°	334	277	35	8	8	326
75°	151	122	12	4	2	163
85°	33	20	0	0	0	38
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°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2103.8	2107.9	2085.5	2079.4	2095.7	2101.8	2103.8	2097.7	2099.8	2107.9	2107.9
5°	2067.2	2071.3	2050.9	2044.8	2061.1	2065.2	2071.3	2069.2	2075.3	2087.6	2085.5
7.5°	2032.6	2038.7	2016.3	2008.1	2028.5	2038.7	2042.7	2042.7	2050.9	2067.2	2069.2
10°	1993.9	2002.0	1981.7	1977.6	2000.0	2010.2	2012.2	2016.3	2028.5	2050.9	2055.0
12.5°	1961.3	1969.4	1955.2	1949.1	1973.5	1983.7	1987.8	1995.9	2010.2	2038.7	2042.7
15°	1932.8	1938.9	1922.6	1918.5	1943.0	1955.2	1957.2	1969.4	1987.8	2020.3	2026.5
17.5°	1896.1	1900.2	1888.0	1883.9	1908.3	1920.6	1922.6	1936.8	1959.2	1991.8	2002.0
20°	1853.3	1857.4	1845.2	1841.1	1865.6	1879.8	1881.9	1894.1	1920.6	1955.2	1965.4
22.5°	1802.4	1810.6	1796.3	1792.2	1816.7	1828.9	1835.0	1845.2	1871.7	1906.3	1920.6
25°	1749.5	1749.5	1739.3	1737.3	1759.7	1773.9	1771.9	1786.1	1812.6	1847.2	1859.5
27.5°	1680.2	1678.2	1668.0	1666.0	1690.4	1702.6	1698.6	1712.8	1737.3	1771.9	1784.1
30°	1588.6	1592.7	1578.4	1574.3	1594.7	1615.1	1613.0	1627.3	1651.7	1684.3	1692.4
32.5°	1478.6	1482.7	1480.6	1474.5	1492.9	1503.0	1509.2	1519.3	1539.7	1574.3	1582.5
35°	1374.7	1368.6	1360.5	1360.5	1378.8	1395.1	1389.0	1401.2	1421.6	1456.2	1458.2
37.5°	1246.4	1244.4	1240.3	1236.2	1256.6	1260.7	1262.7	1270.9	1289.2	1317.7	1313.6
40°	1112.0	1114.0	1112.0	1103.9	1116.1	1132.4	1130.3	1134.4	1150.7	1171.1	1165.0
42.5°	985.7	985.7	985.7	977.6	991.8	1000.0	1004.1	1002.0	1006.1	1024.4	1016.3
45°	865.6	867.6	865.6	863.5	865.6	869.6	865.6	863.5	863.5	869.6	857.4
47.5°	761.7	761.7	755.6	749.5	755.6	757.6	751.5	745.4	743.4	741.3	721.0
50°	668.0	666.0	663.9	653.8	659.9	661.9	653.8	649.7	641.5	631.4	606.9
52.5°	586.6	584.5	582.5	572.3	576.4	578.4	570.3	562.1	551.9	543.8	513.2
55°	517.3	515.3	515.3	509.2	505.1	509.2	501.0	494.9	480.6	470.5	439.9
57.5°	458.2	458.2	454.2	448.1	450.1	450.1	442.0	433.8	421.6	409.4	384.9
60°	407.3	407.3	407.3	401.2	401.2	401.2	397.1	389.0	378.8	366.6	342.2
62.5°	366.6	366.6	364.6	358.4	360.5	360.5	356.4	348.3	338.1	329.9	305.5
65°	334.0	334.0	334.0	327.9	327.9	329.9	325.9	317.7	309.6	299.4	277.0
67.5°	293.3	291.2	291.2	287.2	289.2	291.2	287.2	281.1	270.9	264.8	244.4
70°	242.4	244.4	246.4	240.3	242.4	242.4	240.3	234.2	228.1	222.0	203.7
72.5°	197.6	197.6	195.5	193.5	193.5	195.5	191.4	185.3	181.3	177.2	162.9
75°	150.7	148.7	150.7	146.6	146.6	146.6	142.6	140.5	138.5	132.4	122.2
77.5°	110.0	107.9	107.9	103.9	105.9	105.9	103.9	99.8	95.7	93.7	85.5
80°	75.4	75.4	75.4	73.3	73.3	71.3	71.3	69.2	65.2	63.1	59.1
82.5°	50.9	50.9	50.9	48.9	48.9	48.9	46.8	44.8	42.8	40.7	36.7
85°	32.6	32.6	32.6	30.5	30.5	30.5	28.5	28.5	26.5	24.4	20.4
87.5°	18.3	18.3	18.3	16.3	16.3	16.3	16.3	16.3	14.3	12.2	10.2
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°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2122.2	2093.7	2112.0	2112.0	2105.9	2122.2	2132.4	2140.5	2138.5	2120.1	2118.1
5°	2105.9	2081.4	2101.8	2103.8	2097.7	2120.1	2134.4	2144.6	2146.6	2130.3	2132.4
7.5°	2093.7	2073.3	2099.8	2107.9	2105.9	2126.3	2142.5	2158.8	2167.0	2154.8	2156.8
10°	2087.6	2071.3	2099.8	2112.0	2114.0	2136.4	2160.9	2183.3	2193.5	2185.3	2191.4
12.5°	2079.4	2069.2	2101.8	2120.1	2128.3	2150.7	2181.2	2207.7	2224.0	2219.9	2232.2
15°	2071.3	2063.1	2101.8	2128.3	2138.5	2158.8	2193.5	2232.2	2250.5	2248.5	2264.7
17.5°	2050.9	2048.9	2089.6	2118.1	2132.4	2156.8	2189.4	2236.2	2254.6	2258.6	2279.0
20°	2018.3	2018.3	2063.1	2093.7	2110.0	2132.4	2173.1	2217.9	2240.3	2244.4	2266.8
22.5°	1973.5	1977.6	2020.3	2050.9	2075.3	2091.6	2134.4	2181.2	2201.6	2207.7	2232.2
25°	1914.4	1918.5	1959.2	1989.8	2016.3	2034.6	2075.3	2118.1	2142.5	2148.7	2167.0
27.5°	1837.0	1845.2	1883.9	1914.4	1936.8	1949.1	1991.8	2036.6	2055.0	2061.1	2079.4
30°	1747.4	1749.5	1788.2	1814.6	1837.0	1847.2	1883.9	1930.7	1945.0	1951.1	1977.6
32.5°	1637.5	1635.4	1672.1	1696.5	1714.9	1727.1	1765.8	1796.3	1810.6	1820.8	1835.0
35°	1505.1	1503.0	1529.5	1558.0	1572.3	1576.4	1615.1	1647.6	1655.8	1663.9	1682.3
37.5°	1356.4	1356.4	1378.8	1393.1	1409.4	1415.5	1433.8	1470.5	1484.7	1482.7	1496.9
40°	1199.6	1191.4	1207.7	1222.0	1226.1	1228.1	1246.4	1274.9	1285.1	1285.1	1295.3
42.5°	1034.6	1022.4	1024.4	1032.6	1036.6	1022.4	1034.6	1052.9	1046.8	1055.0	1057.0
45°	859.5	841.1	833.0	814.7	818.7	804.5	796.3	800.4	798.4	778.0	782.1
47.5°	716.9	684.3	670.1	643.6	637.5	621.2	611.0	592.7	576.4	576.4	566.2
50°	596.7	564.1	535.6	505.1	494.9	480.6	458.2	433.8	421.6	409.4	399.2
52.5°	501.0	466.4	431.8	399.2	384.9	366.6	336.0	311.6	289.2	277.0	264.8
55°	423.6	384.9	348.3	313.6	295.3	277.0	246.4	217.9	191.4	175.2	165.0
57.5°	364.6	327.9	289.2	252.5	236.3	215.9	183.3	152.7	128.3	110.0	99.8
60°	321.8	285.1	250.5	211.8	195.5	175.2	140.5	112.0	87.6	71.3	59.1
62.5°	285.1	252.5	215.9	181.3	165.0	144.6	112.0	83.5	61.1	44.8	34.6
65°	258.7	226.1	195.5	160.9	146.6	126.3	95.7	69.2	48.9	34.6	24.4
67.5°	228.1	199.6	169.0	140.5	126.3	110.0	81.5	59.1	40.7	28.5	20.4
70°	191.4	169.0	142.6	116.1	105.9	91.6	67.2	48.9	32.6	22.4	16.3
72.5°	152.7	134.4	114.1	93.7	85.5	71.3	55.0	38.7	24.4	16.3	12.2
75°	116.1	101.8	85.5	71.3	63.1	55.0	40.7	28.5	18.3	12.2	8.1
77.5°	79.4	73.3	61.1	48.9	44.8	38.7	26.5	18.3	12.2	8.1	4.1
80°	55.0	48.9	40.7	32.6	28.5	24.4	16.3	12.2	6.1	4.1	2.0
82.5°	34.6	28.5	24.4	20.4	18.3	14.3	10.2	6.1	4.1	2.0	2.0
85°	18.3	16.3	14.3	10.2	10.2	8.1	6.1	4.1	2.0	0.0	0.0
87.5°	10.2	8.1	6.1	4.1	4.1	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°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2142.5	2142.5	2140.5	2164.9	2136.4	2164.9	2150.7	2164.9	2144.6	2142.5	2144.6
5°	2158.8	2164.9	2167.0	2189.4	2162.9	2197.5	2185.3	2197.5	2183.3	2187.4	2193.5
7.5°	2191.4	2201.6	2199.6	2228.1	2201.6	2240.3	2232.2	2250.5	2236.2	2240.3	2248.5
10°	2228.1	2240.3	2242.3	2270.9	2246.4	2293.3	2283.1	2303.4	2291.2	2297.3	2307.5
12.5°	2270.9	2285.1	2287.1	2319.7	2293.3	2342.1	2336.0	2356.4	2346.2	2352.3	2364.5
15°	2303.4	2323.8	2327.9	2360.5	2332.0	2382.9	2378.8	2405.3	2389.0	2399.2	2409.3
17.5°	2319.7	2338.1	2346.2	2376.8	2352.3	2403.2	2399.2	2421.6	2409.3	2419.5	2431.7
20°	2309.5	2332.0	2338.1	2368.6	2344.2	2395.1	2389.0	2411.4	2399.2	2407.3	2419.5
22.5°	2272.9	2295.3	2303.4	2332.0	2309.5	2356.4	2354.4	2374.7	2358.4	2368.6	2378.8
25°	2207.7	2232.2	2236.2	2262.7	2238.3	2287.1	2283.1	2305.5	2293.3	2299.4	2313.6
27.5°	2114.0	2142.5	2148.7	2171.1	2152.7	2193.5	2193.5	2211.8	2197.5	2197.5	2211.8
30°	2002.0	2030.5	2034.6	2052.9	2036.6	2073.3	2075.3	2093.7	2071.3	2083.5	2085.5
32.5°	1865.6	1883.9	1896.1	1912.4	1888.0	1934.8	1928.7	1943.0	1930.7	1930.7	1940.9
35°	1700.6	1723.0	1729.1	1749.5	1729.1	1765.8	1765.8	1773.9	1761.7	1761.7	1778.0
37.5°	1521.4	1537.7	1539.7	1560.1	1543.8	1574.3	1572.3	1578.4	1566.2	1574.3	1574.3
40°	1311.6	1323.8	1327.9	1338.1	1336.0	1358.4	1356.4	1360.5	1354.4	1356.4	1360.5
42.5°	1067.2	1083.5	1091.6	1099.8	1087.6	1118.1	1112.0	1118.1	1116.1	1118.1	1124.2
45°	786.1	798.4	804.5	806.5	802.4	820.8	835.0	822.8	824.8	820.8	828.9
47.5°	568.2	570.3	566.2	578.4	568.2	576.4	580.4	582.5	570.3	568.2	576.4
50°	389.0	399.2	384.9	391.0	389.0	397.1	393.1	395.1	382.9	389.0	384.9
52.5°	258.7	256.6	252.5	254.6	250.5	250.5	250.5	254.6	246.4	242.4	238.3
55°	156.8	152.7	144.6	142.6	142.6	144.6	140.5	136.5	136.5	134.4	134.4
57.5°	91.6	85.5	81.5	79.4	75.4	73.3	71.3	71.3	67.2	67.2	67.2
60°	50.9	44.8	40.7	36.7	36.7	34.6	32.6	30.5	30.5	30.5	28.5
62.5°	26.5	22.4	18.3	16.3	16.3	14.3	12.2	12.2	12.2	12.2	10.2
65°	18.3	14.3	12.2	10.2	10.2	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	14.3	12.2	10.2	8.1	8.1	8.1	6.1	6.1	6.1	6.1	6.1
70°	12.2	8.1	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	8.1	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	6.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: P252171

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2162.9	2160.9	2162.9	2167.0	2158.8	2183.3	2171.1	2183.3
5°	2209.8	2211.8	2213.8	2219.9	2209.8	2240.3	2224.0	2242.3
7.5°	2270.9	2272.9	2274.9	2281.0	2274.9	2305.5	2287.1	2303.4
10°	2334.0	2338.1	2338.1	2348.2	2342.1	2370.6	2358.4	2378.8
12.5°	2393.1	2397.1	2401.2	2407.3	2403.2	2433.8	2423.6	2439.9
15°	2439.9	2448.0	2450.1	2458.2	2454.2	2486.7	2474.5	2490.8
17.5°	2462.3	2470.4	2470.4	2480.6	2476.6	2511.2	2494.9	2513.2
20°	2450.1	2456.2	2458.2	2468.4	2464.3	2499.0	2482.7	2505.1
22.5°	2411.4	2413.4	2415.5	2425.6	2423.6	2454.2	2439.9	2454.2
25°	2340.1	2346.2	2344.2	2352.3	2352.3	2376.8	2360.5	2372.7
27.5°	2238.3	2244.4	2244.4	2254.6	2246.4	2270.9	2254.6	2272.9
30°	2114.0	2120.1	2116.1	2124.2	2116.1	2140.5	2128.3	2134.4
32.5°	1965.4	1965.4	1967.4	1969.4	1965.4	1987.8	1975.5	1987.8
35°	1788.2	1792.2	1794.3	1796.3	1792.2	1808.5	1794.3	1802.4
37.5°	1588.6	1598.8	1596.7	1598.8	1592.7	1613.0	1600.8	1604.9
40°	1374.7	1374.7	1372.7	1376.8	1370.7	1387.0	1378.8	1382.9
42.5°	1126.3	1132.4	1124.2	1134.4	1118.1	1140.5	1132.4	1126.3
45°	845.2	837.1	835.0	837.1	830.9	833.0	839.1	835.0
47.5°	576.4	576.4	572.3	566.2	574.3	576.4	568.2	568.2
50°	387.0	387.0	382.9	380.9	384.9	382.9	378.8	384.9
52.5°	246.4	238.3	238.3	242.4	238.3	234.2	240.3	236.3
55°	134.4	130.3	130.3	134.4	130.3	130.3	128.3	132.4
57.5°	65.2	67.2	65.2	65.2	65.2	65.2	63.1	65.2
60°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
62.5°	12.2	12.2	10.2	10.2	10.2	10.2	10.2	10.2
65°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
67.5°	6.1	6.1	6.1	6.1	6.1	8.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	6.1	6.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.1	4.1	4.1	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)