

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: P252506

Luminaire Tested: **LD6B50D010TE EU6B30508030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252506
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: LD6B50D010TE EU6B30508030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4538.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

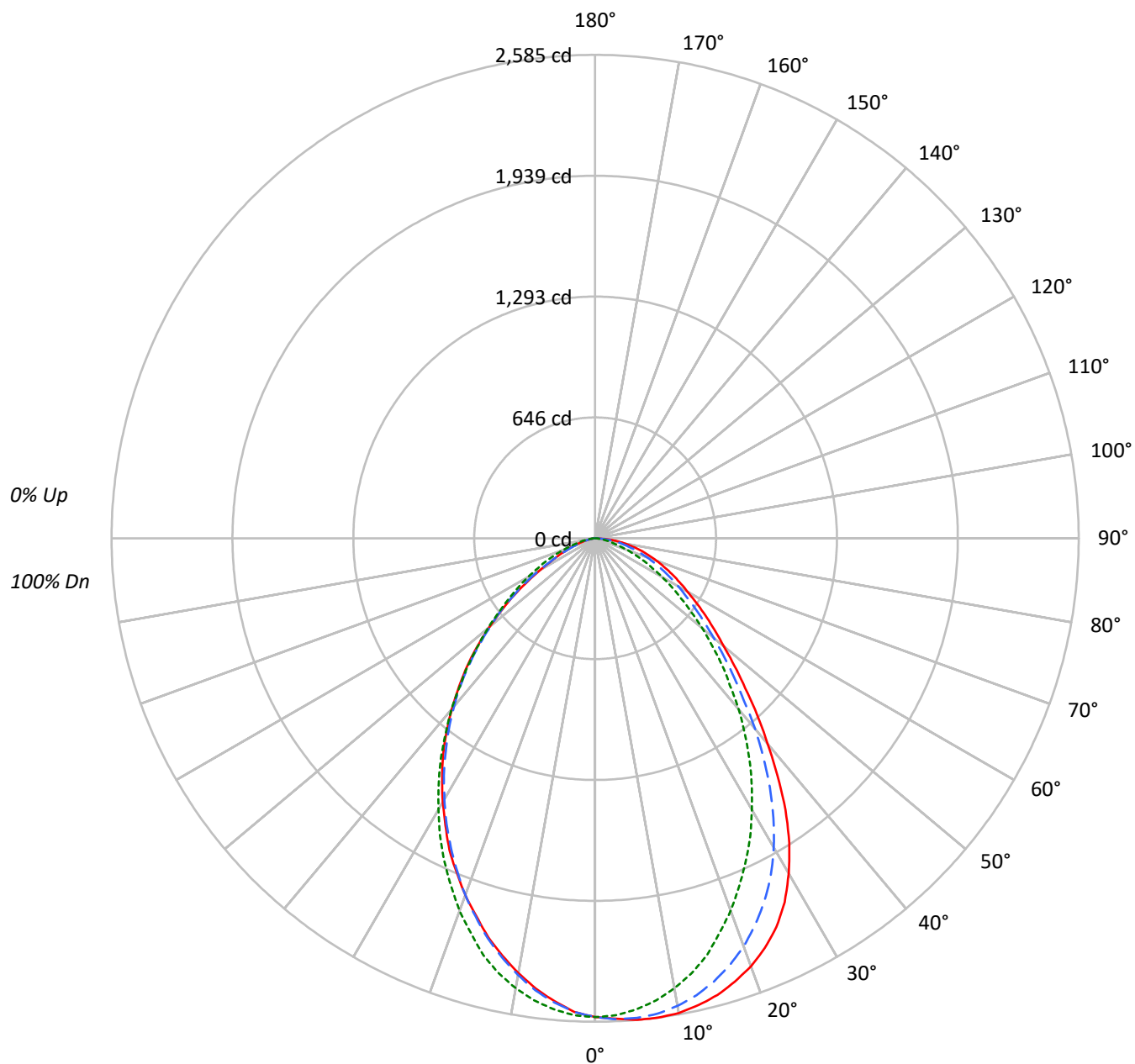
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	167023	167023	167023
5°	169291	165565	162768
10°	170778	161828	156409
15°	170753	155860	149140
20°	169105	147131	140959
25°	165091	137196	132589
30°	155895	126161	122680
35°	141313	114409	112991
40°	122034	101747	101449
45°	104655	88574	89238
50°	90941	75787	74701
55°	81702	63901	59852
60°	74231	53824	44077
65°	69715	44459	32387
70°	66477	34583	23729
75°	63648	25106	16133
80°	60113	17358	10670
85°	53222	10629	5315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	5.3
10°-20°	655.9	14.5
20°-30°	910.6	20.1
30°-40°	943.1	20.8
40°-50°	775.0	17.1
50°-60°	532.7	11.7
60°-70°	306.2	6.7
70°-80°	140.8	3.1
80°-90°	34.3	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°	1805.9	39.8
0°-40°	2749.0	60.6
0°-60°	4056.7	89.4
0°-90°	4538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4538.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2560	2560	2560	2560	2560	
5°	2585	2574	2528	2492	2485	246
15°	2528	2453	2308	2215	2208	712
25°	2293	2140	1906	1824	1842	1049
35°	1774	1628	1436	1394	1419	1100
45°	1134	1049	960	949	967	883
55°	718	651	562	530	526	646
65°	452	395	288	203	210	450
75°	252	199	100	64	64	267
85°	71	50	14	7	7	80
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°	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1
2.5°	2570.8	2592.1	2577.9	2574.3	2581.4	2581.4	2581.4	2570.8	2577.9	2567.2	2574.3
5°	2585.0	2602.8	2588.5	2581.4	2588.5	2592.1	2581.4	2574.3	2585.0	2570.8	2574.3
7.5°	2585.0	2602.8	2588.5	2585.0	2588.5	2588.5	2585.0	2570.8	2577.9	2563.7	2563.7
10°	2577.9	2592.1	2577.9	2570.8	2574.3	2570.8	2570.8	2553.0	2556.5	2538.8	2538.8
12.5°	2556.5	2574.3	2556.5	2549.4	2549.4	2549.4	2538.8	2524.5	2528.1	2506.8	2503.2
15°	2528.1	2542.3	2524.5	2517.4	2517.4	2513.9	2506.8	2485.4	2485.4	2464.1	2453.4
17.5°	2485.4	2499.7	2485.4	2474.8	2471.2	2464.1	2457.0	2435.7	2428.5	2403.7	2393.0
20°	2435.7	2446.3	2432.1	2421.4	2414.3	2407.2	2393.0	2371.7	2364.5	2339.7	2321.9
22.5°	2371.7	2385.9	2364.5	2353.9	2346.8	2336.1	2321.9	2300.5	2289.9	2257.9	2236.5
25°	2293.4	2300.5	2282.8	2272.1	2257.9	2250.8	2240.1	2211.6	2201.0	2165.4	2140.5
27.5°	2193.9	2201.0	2179.6	2172.5	2154.8	2147.6	2133.4	2108.5	2094.3	2058.8	2033.9
30°	2069.4	2076.5	2062.3	2051.6	2037.4	2023.2	2012.5	1987.6	1966.3	1930.7	1909.4
32.5°	1930.7	1941.4	1927.2	1913.0	1888.1	1891.6	1873.9	1849.0	1831.2	1799.2	1774.3
35°	1774.3	1781.4	1763.6	1760.1	1745.8	1731.6	1713.8	1696.1	1685.4	1649.8	1628.5
37.5°	1600.1	1617.8	1600.1	1585.8	1578.7	1568.1	1557.4	1532.5	1525.4	1504.1	1475.6
40°	1432.9	1443.6	1432.9	1418.7	1408.1	1408.1	1393.8	1379.6	1361.8	1340.5	1329.8
42.5°	1283.6	1276.5	1272.9	1265.8	1251.6	1248.1	1244.5	1226.7	1216.0	1194.7	1176.9
45°	1134.3	1137.8	1130.7	1127.2	1116.5	1109.4	1102.3	1088.0	1084.5	1063.2	1048.9
47.5°	1009.8	1006.3	999.2	999.2	992.0	984.9	977.8	967.2	963.6	945.8	931.6
50°	896.0	899.6	896.0	892.5	881.8	878.3	871.1	864.0	856.9	839.1	824.9
52.5°	803.6	800.0	796.5	796.5	785.8	782.3	775.1	768.0	760.9	743.1	732.5
55°	718.3	718.3	714.7	711.1	700.5	696.9	693.4	686.3	675.6	661.4	650.7
57.5°	640.0	640.0	636.5	632.9	625.8	625.8	618.7	611.6	604.5	590.2	576.0
60°	568.9	572.5	568.9	565.4	558.2	558.2	554.7	544.0	540.5	522.7	512.0
62.5°	508.5	508.5	508.5	504.9	501.4	494.2	494.2	483.6	476.5	465.8	451.6
65°	451.6	451.6	451.6	448.0	440.9	437.4	433.8	426.7	419.6	408.9	394.7
67.5°	398.2	398.2	398.2	394.7	387.6	384.0	380.5	376.9	366.2	355.6	341.3
70°	348.5	348.5	344.9	341.3	337.8	334.2	330.7	323.6	316.5	302.2	291.6
72.5°	298.7	298.7	298.7	291.6	288.0	288.0	280.9	277.3	270.2	256.0	245.3
75°	252.5	248.9	248.9	245.3	241.8	238.2	234.7	231.1	220.5	213.3	199.1
77.5°	206.2	206.2	202.7	199.1	199.1	195.6	192.0	184.9	181.3	170.7	160.0
80°	160.0	160.0	160.0	160.0	156.5	152.9	152.9	145.8	142.2	131.6	124.4
82.5°	120.9	117.3	117.3	117.3	113.8	110.2	110.2	106.7	103.1	96.0	88.9
85°	71.1	67.6	67.6	67.6	64.0	64.0	60.4	60.4	56.9	49.8	49.8
87.5°	21.3	21.3	24.9	24.9	21.3	21.3	21.3	21.3	21.3	17.8	17.8
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°	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1
2.5°	2567.2	2577.9	2563.7	2560.1	2574.3	2567.2	2563.7	2556.5	2560.1	2553.0	2542.3
5°	2563.7	2577.9	2560.1	2549.4	2567.2	2556.5	2549.4	2542.3	2542.3	2528.1	2521.0
7.5°	2553.0	2560.1	2542.3	2531.7	2542.3	2531.7	2524.5	2513.9	2510.3	2492.5	2481.9
10°	2524.5	2531.7	2510.3	2496.1	2506.8	2492.5	2481.9	2471.2	2464.1	2442.8	2428.5
12.5°	2485.4	2489.0	2464.1	2446.3	2453.4	2442.8	2425.0	2410.8	2403.7	2382.3	2364.5
15°	2432.1	2435.7	2407.2	2382.3	2389.4	2375.2	2353.9	2339.7	2329.0	2307.6	2282.8
17.5°	2368.1	2364.5	2332.5	2307.6	2311.2	2293.4	2272.1	2250.8	2236.5	2211.6	2193.9
20°	2297.0	2286.3	2250.8	2222.3	2225.9	2204.5	2179.6	2158.3	2140.5	2119.2	2094.3
22.5°	2208.1	2193.9	2161.9	2126.3	2129.9	2112.1	2076.5	2058.8	2041.0	2012.5	1991.2
25°	2112.1	2090.8	2058.8	2023.2	2023.2	2001.9	1973.4	1952.1	1934.3	1905.9	1881.0
27.5°	1998.3	1987.6	1945.0	1916.5	1913.0	1891.6	1866.7	1841.9	1820.5	1795.6	1770.7
30°	1873.9	1856.1	1824.1	1792.1	1785.0	1767.2	1742.3	1713.8	1699.6	1674.7	1653.4
32.5°	1742.3	1724.5	1689.0	1657.0	1653.4	1639.2	1617.8	1589.4	1575.2	1557.4	1543.2
35°	1593.0	1585.8	1550.3	1525.4	1525.4	1511.2	1489.8	1464.9	1454.3	1436.5	1418.7
37.5°	1450.7	1440.1	1408.1	1386.7	1386.7	1368.9	1347.6	1336.9	1326.3	1312.1	1301.4
40°	1301.4	1294.3	1269.4	1248.1	1251.6	1237.4	1223.2	1208.9	1201.8	1194.7	1184.0
42.5°	1162.7	1155.6	1137.8	1120.0	1120.0	1109.4	1095.2	1084.5	1077.4	1066.7	1063.2
45°	1038.3	1027.6	1013.4	995.6	995.6	984.9	977.8	970.7	967.2	960.0	949.4
47.5°	917.4	910.3	896.0	878.3	878.3	878.3	864.0	853.4	853.4	846.3	842.7
50°	814.3	803.6	792.9	778.7	778.7	771.6	760.9	750.3	750.3	746.7	739.6
52.5°	718.3	711.1	696.9	682.7	682.7	675.6	664.9	661.4	657.8	647.1	643.6
55°	636.5	629.4	618.7	600.9	597.4	593.8	583.1	576.0	572.5	561.8	561.8
57.5°	561.8	554.7	536.9	526.2	522.7	515.6	504.9	497.8	494.2	487.1	480.0
60°	497.8	487.1	472.9	458.7	455.1	448.0	437.4	430.2	426.7	412.5	405.3
62.5°	437.4	426.7	412.5	398.2	394.7	387.6	373.3	366.2	359.1	344.9	337.8
65°	380.5	369.8	355.6	341.3	334.2	330.7	316.5	305.8	298.7	288.0	273.8
67.5°	327.1	316.5	302.2	284.5	284.5	273.8	263.1	252.5	241.8	231.1	220.5
70°	277.3	266.7	252.5	238.2	234.7	227.6	216.9	202.7	195.6	181.3	170.7
72.5°	231.1	220.5	206.2	192.0	188.5	181.3	170.7	156.5	145.8	135.1	124.4
75°	188.5	177.8	163.6	152.9	149.3	142.2	131.6	117.3	106.7	99.6	88.9
77.5°	149.3	138.7	128.0	117.3	113.8	106.7	96.0	88.9	78.2	71.1	60.4
80°	113.8	106.7	96.0	88.9	85.3	78.2	71.1	60.4	53.3	46.2	42.7
82.5°	81.8	74.7	67.6	56.9	56.9	49.8	46.2	39.1	32.0	28.4	24.9
85°	46.2	39.1	35.6	32.0	28.4	28.4	24.9	21.3	17.8	14.2	14.2
87.5°	14.2	14.2	10.7	10.7	10.7	10.7	7.1	7.1	7.1	7.1	7.1
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°	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1
2.5°	2542.3	2545.9	2538.8	2545.9	2538.8	2542.3	2535.2	2542.3	2535.2	2542.3	2528.1
5°	2517.4	2517.4	2506.8	2513.9	2506.8	2510.3	2496.1	2499.7	2492.5	2499.7	2485.4
7.5°	2474.8	2478.3	2460.5	2467.7	2457.0	2457.0	2446.3	2449.9	2439.2	2442.8	2432.1
10°	2425.0	2421.4	2403.7	2410.8	2396.5	2396.5	2385.9	2385.9	2371.7	2375.2	2361.0
12.5°	2353.9	2350.3	2329.0	2336.1	2321.9	2321.9	2311.2	2311.2	2297.0	2304.1	2289.9
15°	2272.1	2268.5	2247.2	2250.8	2236.5	2236.5	2222.3	2225.9	2215.2	2222.3	2208.1
17.5°	2179.6	2176.1	2154.8	2158.3	2140.5	2144.1	2133.4	2129.9	2122.8	2126.3	2115.6
20°	2083.6	2076.5	2055.2	2058.8	2051.6	2041.0	2033.9	2037.4	2030.3	2037.4	2026.7
22.5°	1984.1	1969.9	1952.1	1952.1	1945.0	1945.0	1934.3	1941.4	1927.2	1937.9	1930.7
25°	1870.3	1859.6	1845.4	1852.5	1838.3	1838.3	1827.6	1831.2	1824.1	1831.2	1824.1
27.5°	1760.1	1753.0	1731.6	1738.7	1728.1	1731.6	1721.0	1724.5	1721.0	1728.1	1721.0
30°	1642.7	1639.2	1625.0	1625.0	1621.4	1617.8	1614.3	1614.3	1610.7	1621.4	1614.3
32.5°	1532.5	1521.8	1507.6	1518.3	1500.5	1511.2	1504.1	1511.2	1504.1	1511.2	1507.6
35°	1418.7	1415.2	1397.4	1400.9	1397.4	1397.4	1393.8	1393.8	1393.8	1404.5	1404.5
37.5°	1297.8	1294.3	1283.6	1287.2	1280.1	1276.5	1276.5	1283.6	1283.6	1290.7	1290.7
40°	1180.5	1184.0	1173.4	1173.4	1169.8	1169.8	1169.8	1176.9	1173.4	1180.5	1176.9
42.5°	1063.2	1063.2	1052.5	1056.0	1052.5	1056.0	1056.0	1063.2	1063.2	1066.7	1063.2
45°	952.9	952.9	949.4	952.9	945.8	949.4	945.8	952.9	949.4	952.9	952.9
47.5°	842.7	842.7	842.7	839.1	839.1	839.1	839.1	839.1	835.6	842.7	839.1
50°	739.6	743.1	739.6	739.6	736.0	739.6	736.0	736.0	728.9	732.5	732.5
52.5°	647.1	647.1	640.0	640.0	640.0	636.5	636.5	636.5	632.9	632.9	625.8
55°	558.2	558.2	551.1	551.1	547.6	544.0	540.5	540.5	529.8	529.8	519.1
57.5°	476.5	472.9	462.2	462.2	455.1	451.6	448.0	444.5	437.4	430.2	426.7
60°	401.8	394.7	387.6	384.0	376.9	369.8	362.7	355.6	348.5	344.9	341.3
62.5°	330.7	320.0	312.9	309.3	302.2	291.6	284.5	277.3	270.2	266.7	259.6
65°	266.7	256.0	245.3	241.8	234.7	227.6	216.9	209.8	202.7	199.1	199.1
67.5°	209.8	199.1	184.9	184.9	177.8	170.7	163.6	156.5	152.9	156.5	156.5
70°	156.5	149.3	138.7	135.1	128.0	120.9	117.3	117.3	117.3	120.9	117.3
72.5°	117.3	106.7	99.6	96.0	92.4	88.9	88.9	88.9	85.3	88.9	88.9
75°	81.8	74.7	67.6	67.6	64.0	64.0	64.0	64.0	64.0	64.0	64.0
77.5°	56.9	49.8	46.2	46.2	46.2	42.7	42.7	42.7	42.7	42.7	42.7
80°	35.6	35.6	32.0	32.0	28.4	28.4	28.4	28.4	28.4	28.4	28.4
82.5°	21.3	21.3	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
85°	10.7	10.7	10.7	10.7	10.7	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	3.6	3.6	3.6	3.6	3.6	7.1	7.1	7.1	7.1	7.1	7.1
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: P252506

CATALOG NUMBER: LD6B50D010TE EU6B30508030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1	2560.1
2.5°	2528.1	2538.8	2524.5	2535.2	2531.7	2528.1	2521.0	2535.2
5°	2485.4	2489.0	2474.8	2489.0	2485.4	2478.3	2471.2	2485.4
7.5°	2425.0	2435.7	2417.9	2432.1	2428.5	2421.4	2414.3	2428.5
10°	2357.4	2368.1	2353.9	2364.5	2364.5	2357.4	2346.8	2361.0
12.5°	2282.8	2289.9	2275.6	2289.9	2286.3	2279.2	2275.6	2286.3
15°	2201.0	2211.6	2197.4	2208.1	2204.5	2201.0	2197.4	2208.1
17.5°	2112.1	2122.8	2112.1	2122.8	2122.8	2112.1	2108.5	2115.6
20°	2023.2	2030.3	2019.6	2030.3	2026.7	2026.7	2019.6	2030.3
22.5°	1923.6	1934.3	1927.2	1934.3	1930.7	1930.7	1927.2	1934.3
25°	1824.1	1834.7	1824.1	1834.7	1831.2	1831.2	1824.1	1841.9
27.5°	1724.5	1731.6	1721.0	1735.2	1731.6	1724.5	1728.1	1731.6
30°	1617.8	1625.0	1617.8	1628.5	1628.5	1628.5	1621.4	1628.5
32.5°	1511.2	1521.8	1511.2	1521.8	1518.3	1518.3	1514.7	1521.8
35°	1404.5	1408.1	1400.9	1411.6	1411.6	1415.2	1408.1	1418.7
37.5°	1294.3	1297.8	1294.3	1297.8	1304.9	1294.3	1301.4	1304.9
40°	1180.5	1187.6	1184.0	1187.6	1187.6	1191.2	1187.6	1191.2
42.5°	1066.7	1073.8	1066.7	1077.4	1073.8	1073.8	1077.4	1077.4
45°	949.4	960.0	952.9	960.0	963.6	960.0	960.0	967.2
47.5°	839.1	846.3	842.7	846.3	846.3	846.3	846.3	853.4
50°	728.9	732.5	732.5	736.0	736.0	739.6	732.5	736.0
52.5°	618.7	625.8	625.8	625.8	622.2	625.8	625.8	625.8
55°	519.1	522.7	515.6	522.7	522.7	519.1	519.1	526.2
57.5°	423.1	423.1	423.1	423.1	423.1	419.6	423.1	423.1
60°	334.2	337.8	334.2	334.2	334.2	334.2	330.7	337.8
62.5°	259.6	259.6	256.0	259.6	259.6	259.6	263.1	263.1
65°	202.7	206.2	202.7	206.2	206.2	206.2	206.2	209.8
67.5°	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
70°	120.9	120.9	120.9	124.4	120.9	120.9	120.9	124.4
72.5°	88.9	88.9	88.9	88.9	88.9	88.9	92.4	92.4
75°	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
77.5°	42.7	42.7	42.7	46.2	42.7	46.2	42.7	42.7
80°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
82.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6
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)