

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: P212819

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509050 6LBSWL1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.8 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

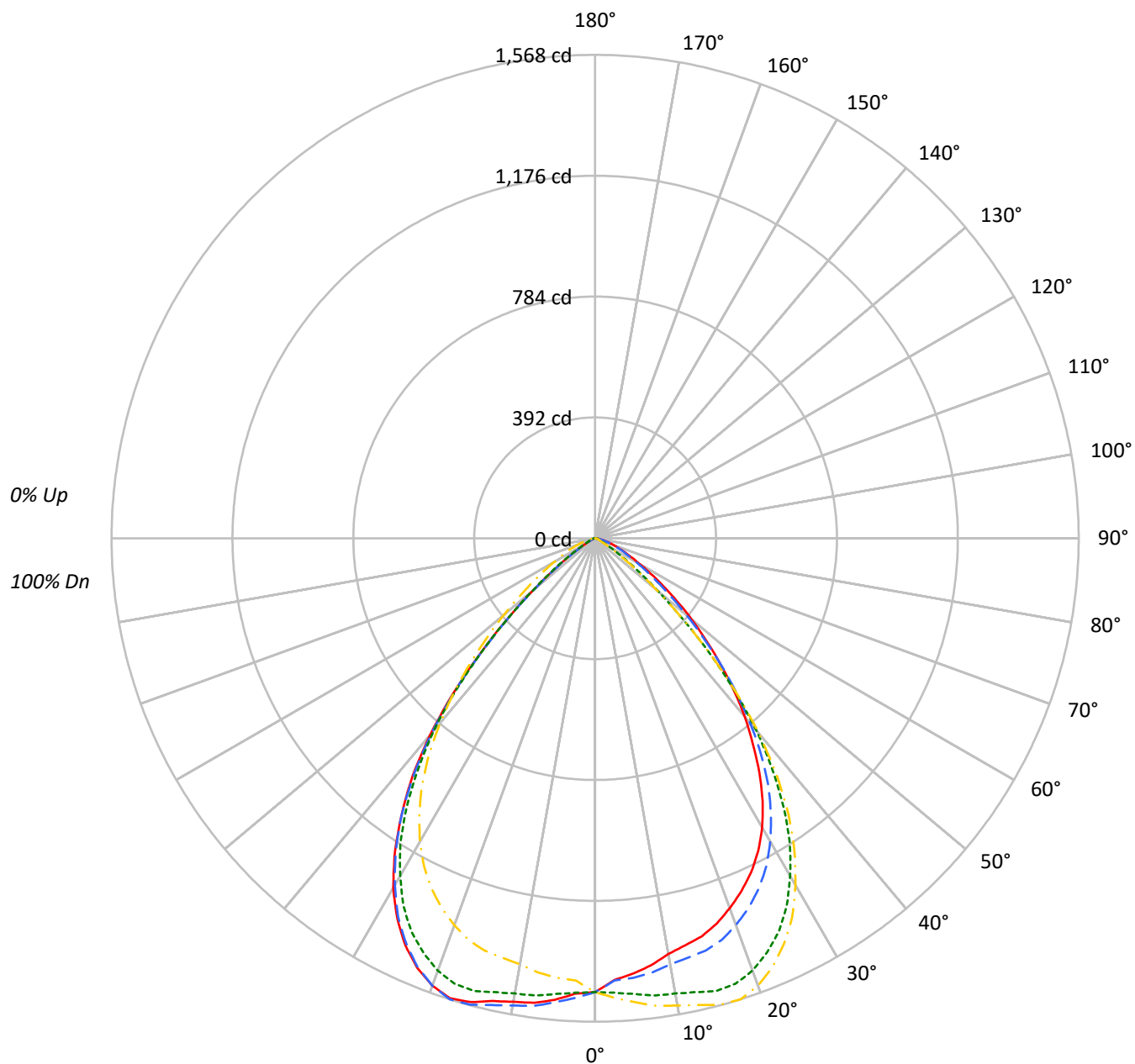
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	99		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	80684	80684	80684	80684
5°	77977	81653	82693	81653
10°	76207	83454	84985	83454
15°	75852	86255	88394	86255
20°	74469	87064	90063	87064
25°	72343	85190	88094	85190
30°	68549	80044	82867	80044
35°	62151	71320	73274	71320
40°	53951	58123	59590	58123
45°	44237	40120	40384	40120
50°	34779	22507	22063	22507
55°	25710	11135	9988	11135
60°	18222	4879	3574	4879
65°	13555	3113	2218	3113
70°	9889	2468	1651	2468
75°	7265	1822	1080	1822
80°	4862	1610	537	1610
85°	3208	1069	1069	1069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	5.7
10°-20°	417.3	17.0
20°-30°	622.8	25.3
30°-40°	639.8	26.0
40°-50°	414.3	16.8
50°-60°	154.1	6.3
60°-70°	50.5	2.1
70°-80°	17.8	0.7
80°-90°	3.2	0.1
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°	1181.0	48.0
0°-40°	1820.8	74.0
0°-60°	2389.2	97.1
0°-90°	2460.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1472	1472	1472	1472	1472	
5°	1417	1484	1503	1484	1417	134
15°	1336	1520	1558	1520	1336	376
25°	1196	1408	1456	1408	1196	548
35°	929	1066	1095	1066	929	577
45°	571	518	521	518	571	441
55°	269	116	104	116	269	245
65°	104	24	17	24	104	106
75°	34	9	5	9	34	38
85°	5	2	2	2	5	7
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°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1434.1	1454.7	1441.0	1449.6	1435.8	1435.8	1463.3	1447.8	1459.8	1447.8	1435.8
5°	1417.0	1442.7	1425.6	1434.1	1422.1	1423.9	1449.6	1437.6	1449.6	1441.0	1430.7
7.5°	1396.4	1422.1	1406.7	1415.3	1403.3	1406.7	1434.1	1422.1	1435.8	1427.3	1420.4
10°	1369.0	1396.4	1382.7	1391.3	1381.0	1382.7	1410.1	1401.6	1413.6	1408.4	1403.3
12.5°	1351.9	1377.6	1362.2	1370.7	1363.9	1367.3	1393.0	1386.2	1401.6	1396.4	1393.0
15°	1336.5	1360.5	1346.7	1355.3	1350.2	1351.9	1379.3	1372.5	1389.6	1386.2	1384.4
17.5°	1310.8	1336.5	1321.0	1331.3	1326.2	1327.9	1355.3	1350.2	1367.3	1367.3	1365.6
20°	1276.5	1302.2	1290.2	1297.1	1293.6	1297.1	1321.0	1317.6	1334.8	1334.8	1334.8
22.5°	1238.8	1264.5	1250.8	1257.7	1254.2	1259.4	1281.6	1281.6	1295.3	1297.1	1298.8
25°	1196.0	1221.7	1208.0	1216.5	1213.1	1216.5	1237.1	1238.8	1250.8	1250.8	1254.2
27.5°	1144.6	1170.3	1156.6	1163.4	1161.7	1163.4	1185.7	1189.1	1196.0	1197.7	1201.1
30°	1082.9	1106.9	1093.2	1100.0	1100.0	1100.0	1122.3	1124.0	1130.9	1132.6	1136.0
32.5°	1010.9	1031.5	1021.2	1028.1	1026.3	1029.8	1045.2	1052.0	1060.6	1058.9	1060.6
35°	928.7	950.9	940.7	945.8	947.5	952.7	962.9	971.5	973.2	974.9	978.4
37.5°	839.6	861.9	851.6	856.7	858.4	868.7	872.1	880.7	884.1	884.1	884.1
40°	753.9	764.2	755.6	760.8	762.5	771.0	774.5	781.3	784.7	783.0	781.3
42.5°	661.4	669.9	661.4	666.5	666.5	673.4	675.1	683.7	683.7	680.2	675.1
45°	570.6	579.1	570.6	574.0	574.0	580.8	580.8	580.8	584.3	579.1	570.6
47.5°	484.9	493.5	484.9	488.3	486.6	491.8	490.0	491.8	486.6	483.2	472.9
50°	407.8	411.2	407.8	406.1	407.8	411.2	409.5	409.5	402.7	397.5	385.5
52.5°	332.4	337.5	332.4	332.4	332.4	335.8	335.8	334.1	327.3	320.4	308.4
55°	269.0	272.4	270.7	269.0	269.0	272.4	269.0	269.0	262.2	257.0	245.0
57.5°	214.2	215.9	214.2	214.2	214.2	215.9	215.9	212.5	207.3	202.2	193.6
60°	166.2	167.9	167.9	166.2	166.2	169.6	169.6	167.9	162.8	159.3	150.8
62.5°	131.9	131.9	131.9	131.9	131.9	133.6	133.6	133.6	130.2	126.8	119.9
65°	104.5	106.2	104.5	104.5	106.2	107.9	106.2	107.9	104.5	102.8	97.7
67.5°	80.5	82.2	80.5	82.2	82.2	84.0	82.2	84.0	80.5	78.8	75.4
70°	61.7	61.7	61.7	61.7	61.7	63.4	61.7	63.4	61.7	60.0	56.5
72.5°	46.3	46.3	48.0	48.0	46.3	48.0	46.3	46.3	46.3	44.5	42.8
75°	34.3	34.3	36.0	34.3	34.3	34.3	34.3	34.3	32.6	32.6	30.8
77.5°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.3	22.3	20.6
80°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	13.7	13.7
82.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	8.6	8.6
85°	5.1	5.1	5.1	6.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	1.7	1.7	1.7	3.4	1.7	1.7	3.4	3.4	1.7	1.7	1.7
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°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1449.6	1454.7	1454.7	1449.6	1461.5	1451.3	1471.8	1453.0	1458.1	1475.3	1473.5
5°	1444.4	1451.3	1453.0	1449.6	1465.0	1456.4	1477.0	1458.1	1466.7	1483.8	1483.8
7.5°	1437.6	1446.1	1449.6	1453.0	1466.7	1458.1	1482.1	1463.3	1475.3	1495.8	1494.1
10°	1422.1	1434.1	1441.0	1446.1	1459.8	1454.7	1480.4	1465.0	1475.3	1499.2	1497.5
12.5°	1413.6	1427.3	1437.6	1446.1	1461.5	1458.1	1483.8	1470.1	1483.8	1507.8	1507.8
15°	1406.7	1422.1	1434.1	1449.6	1465.0	1461.5	1489.0	1477.0	1490.7	1519.8	1518.1
17.5°	1389.6	1408.4	1420.4	1437.6	1453.0	1451.3	1480.4	1471.8	1487.2	1514.7	1516.4
20°	1360.5	1377.6	1391.3	1411.9	1429.0	1425.6	1456.4	1447.8	1463.3	1492.4	1494.1
22.5°	1322.8	1339.9	1353.6	1375.9	1391.3	1389.6	1420.4	1411.9	1427.3	1454.7	1456.4
25°	1278.2	1293.6	1307.3	1327.9	1345.0	1345.0	1372.5	1363.9	1381.0	1408.4	1408.4
27.5°	1223.4	1237.1	1249.1	1273.1	1286.8	1286.8	1312.5	1303.9	1321.0	1345.0	1343.3
30°	1156.6	1168.6	1178.8	1199.4	1211.4	1213.1	1235.4	1226.8	1243.9	1264.5	1264.5
32.5°	1076.0	1088.0	1094.9	1120.6	1129.1	1127.4	1144.6	1136.0	1153.1	1175.4	1170.3
35°	990.4	995.5	1000.6	1026.3	1029.8	1022.9	1040.0	1031.5	1043.5	1065.7	1062.3
37.5°	892.7	894.4	894.4	916.7	918.4	913.3	923.5	913.3	921.8	942.4	940.7
40°	784.7	783.0	781.3	798.5	796.7	786.5	793.3	784.7	796.7	812.2	803.6
42.5°	675.1	669.9	663.1	671.7	664.8	656.2	659.7	646.0	654.5	666.5	656.2
45°	567.1	556.9	543.2	544.9	536.3	526.0	520.9	507.2	505.5	517.5	508.9
47.5°	466.1	445.5	433.5	426.6	412.9	404.4	394.1	378.7	371.8	378.7	370.1
50°	375.2	354.7	339.3	323.8	310.1	299.8	282.7	272.4	262.2	263.9	257.0
52.5°	296.4	282.7	257.0	245.0	231.3	219.3	203.9	191.9	179.9	179.9	173.1
55°	234.7	215.9	198.8	181.6	167.9	157.6	142.2	130.2	118.2	116.5	109.7
57.5°	181.6	167.9	149.1	131.9	123.4	113.1	97.7	84.0	77.1	72.0	66.8
60°	140.5	126.8	111.4	97.7	87.4	80.5	65.1	54.8	48.0	44.5	39.4
62.5°	113.1	101.1	87.4	73.7	66.8	60.0	48.0	39.4	32.6	29.1	25.7
65°	90.8	80.5	70.3	60.0	54.8	48.0	39.4	32.6	27.4	24.0	20.6
67.5°	70.3	63.4	54.8	48.0	42.8	37.7	30.8	25.7	22.3	18.8	17.1
70°	53.1	48.0	42.8	36.0	32.6	29.1	24.0	18.8	17.1	15.4	13.7
72.5°	41.1	36.0	30.8	27.4	24.0	22.3	18.8	15.4	13.7	12.0	10.3
75°	27.4	25.7	22.3	18.8	17.1	15.4	13.7	12.0	10.3	8.6	8.6
77.5°	18.8	17.1	15.4	13.7	12.0	12.0	10.3	8.6	6.9	6.9	5.1
80°	12.0	10.3	10.3	8.6	8.6	8.6	6.9	5.1	5.1	5.1	3.4
82.5°	8.6	6.9	6.9	5.1	5.1	5.1	5.1	3.4	3.4	3.4	1.7
85°	5.1	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1459.8	1475.3	1475.3	1489.0	1490.7	1487.2	1471.8	1471.8	1492.4	1504.4	1483.8
5°	1473.5	1489.0	1489.0	1502.7	1509.5	1504.4	1489.0	1490.7	1511.2	1524.9	1504.4
7.5°	1485.5	1501.0	1504.4	1519.8	1524.9	1519.8	1504.4	1507.8	1530.1	1542.1	1521.5
10°	1490.7	1506.1	1507.8	1524.9	1531.8	1524.9	1513.0	1514.7	1538.7	1547.2	1528.4
12.5°	1502.7	1518.1	1518.1	1536.9	1543.8	1538.7	1523.2	1526.7	1550.6	1559.2	1540.4
15°	1514.7	1530.1	1530.1	1550.6	1559.2	1552.4	1540.4	1542.1	1566.1	1574.6	1559.2
17.5°	1514.7	1528.4	1528.4	1550.6	1559.2	1554.1	1540.4	1542.1	1567.8	1574.6	1559.2
20°	1492.4	1507.8	1504.4	1526.7	1535.2	1530.1	1518.1	1518.1	1543.8	1550.6	1535.2
22.5°	1456.4	1470.1	1466.7	1487.2	1497.5	1490.7	1480.4	1478.7	1504.4	1511.2	1495.8
25°	1406.7	1420.4	1417.0	1437.6	1447.8	1439.3	1427.3	1429.0	1449.6	1459.8	1446.1
27.5°	1348.5	1357.0	1351.9	1372.5	1382.7	1374.2	1362.2	1363.9	1384.4	1391.3	1381.0
30°	1269.6	1276.5	1271.4	1288.5	1295.3	1290.2	1279.9	1279.9	1298.8	1307.3	1297.1
32.5°	1175.4	1180.5	1175.4	1189.1	1202.8	1192.5	1182.3	1182.3	1202.8	1209.7	1197.7
35°	1065.7	1070.9	1067.5	1081.2	1091.4	1077.7	1069.2	1065.7	1093.2	1089.7	1082.9
37.5°	944.1	947.5	937.2	961.2	966.4	950.9	944.1	940.7	964.7	962.9	956.1
40°	807.0	810.4	803.6	820.7	822.4	810.4	805.3	800.2	824.2	822.4	817.3
42.5°	661.4	663.1	654.5	668.2	671.7	659.7	658.0	651.1	673.4	669.9	668.2
45°	510.6	510.6	503.7	514.0	517.5	507.2	503.7	502.0	517.5	517.5	514.0
47.5°	370.1	365.0	356.4	371.8	373.5	366.7	365.0	359.8	375.2	375.2	371.8
50°	253.6	251.9	250.2	253.6	255.3	246.7	251.9	246.7	255.3	255.3	255.3
52.5°	169.6	167.9	164.5	167.9	167.9	162.8	162.8	161.1	167.9	167.9	164.5
55°	106.2	104.5	102.8	104.5	104.5	99.4	102.8	99.4	102.8	102.8	101.1
57.5°	65.1	61.7	61.7	60.0	60.0	56.5	58.3	58.3	58.3	58.3	58.3
60°	37.7	36.0	34.3	34.3	34.3	32.6	32.6	32.6	32.6	32.6	32.6
62.5°	24.0	24.0	22.3	22.3	22.3	22.3	22.3	20.6	22.3	22.3	22.3
65°	20.6	18.8	18.8	18.8	18.8	17.1	17.1	17.1	17.1	17.1	17.1
67.5°	17.1	15.4	15.4	15.4	15.4	13.7	13.7	13.7	13.7	13.7	13.7
70°	13.7	12.0	12.0	12.0	12.0	12.0	10.3	12.0	12.0	10.3	10.3
72.5°	10.3	10.3	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	6.9	6.9	6.9	6.9	6.9	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	0.0	1.7	0.0	1.7	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: P212819

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1507.8	1490.7	1482.1	1499.2	1506.1	1497.5	1490.7	1478.7	1490.7	1497.5	1506.1
5°	1528.4	1513.0	1506.1	1518.1	1528.4	1519.8	1514.7	1502.7	1514.7	1519.8	1528.4
7.5°	1547.2	1531.8	1523.2	1535.2	1547.2	1535.2	1530.1	1519.8	1530.1	1535.2	1547.2
10°	1554.1	1536.9	1530.1	1540.4	1552.4	1540.4	1533.5	1526.7	1533.5	1540.4	1552.4
12.5°	1566.1	1548.9	1540.4	1548.9	1560.9	1548.9	1542.1	1536.9	1542.1	1548.9	1560.9
15°	1583.2	1567.8	1557.5	1566.1	1581.5	1567.8	1559.2	1557.5	1559.2	1567.8	1581.5
17.5°	1583.2	1571.2	1560.9	1567.8	1583.2	1572.9	1560.9	1564.4	1560.9	1572.9	1583.2
20°	1560.9	1548.9	1540.4	1540.4	1562.6	1548.9	1538.7	1543.8	1538.7	1548.9	1562.6
22.5°	1521.5	1511.2	1502.7	1501.0	1523.2	1511.2	1497.5	1507.8	1497.5	1511.2	1523.2
25°	1470.1	1459.8	1453.0	1449.6	1471.8	1458.1	1446.1	1456.4	1446.1	1458.1	1471.8
27.5°	1403.3	1394.7	1387.9	1382.7	1403.3	1391.3	1379.3	1389.6	1379.3	1391.3	1403.3
30°	1317.6	1312.5	1305.6	1298.8	1319.3	1307.3	1295.3	1309.1	1295.3	1307.3	1319.3
32.5°	1218.2	1214.8	1206.2	1199.4	1220.0	1206.2	1197.7	1208.0	1197.7	1206.2	1220.0
35°	1103.4	1098.3	1093.2	1081.2	1103.4	1091.4	1091.4	1094.9	1091.4	1091.4	1103.4
37.5°	974.9	971.5	964.7	954.4	973.2	964.7	961.2	971.5	961.2	964.7	973.2
40°	831.0	829.3	824.2	812.2	832.7	824.2	819.0	832.7	819.0	824.2	832.7
42.5°	680.2	676.8	671.7	669.9	680.2	673.4	678.5	678.5	678.5	673.4	680.2
45°	524.3	520.9	517.5	510.6	522.6	519.2	517.5	520.9	517.5	519.2	522.6
47.5°	380.4	377.0	373.5	368.4	380.4	375.2	375.2	378.7	375.2	375.2	380.4
50°	255.3	257.0	255.3	251.9	255.3	253.6	255.3	258.7	255.3	253.6	255.3
52.5°	169.6	169.6	166.2	164.5	167.9	166.2	171.3	167.9	171.3	166.2	167.9
55°	102.8	104.5	102.8	101.1	102.8	101.1	106.2	104.5	106.2	101.1	102.8
57.5°	58.3	58.3	60.0	58.3	61.7	60.0	60.0	60.0	60.0	60.0	61.7
60°	32.6	32.6	32.6	32.6	32.6	32.6	34.3	32.6	34.3	32.6	32.6
62.5°	22.3	22.3	22.3	20.6	22.3	20.6	22.3	22.3	22.3	20.6	22.3
65°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
67.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
70°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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: P212819

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1499.2	1482.1	1490.7	1507.8	1483.8	1504.4	1492.4	1471.8	1471.8	1487.2	1490.7
5°	1518.1	1506.1	1513.0	1528.4	1504.4	1524.9	1511.2	1490.7	1489.0	1504.4	1509.5
7.5°	1535.2	1523.2	1531.8	1547.2	1521.5	1542.1	1530.1	1507.8	1504.4	1519.8	1524.9
10°	1540.4	1530.1	1536.9	1554.1	1528.4	1547.2	1538.7	1514.7	1513.0	1524.9	1531.8
12.5°	1548.9	1540.4	1548.9	1566.1	1540.4	1559.2	1550.6	1526.7	1523.2	1538.7	1543.8
15°	1566.1	1557.5	1567.8	1583.2	1559.2	1574.6	1566.1	1542.1	1540.4	1552.4	1559.2
17.5°	1567.8	1560.9	1571.2	1583.2	1559.2	1574.6	1567.8	1542.1	1540.4	1554.1	1559.2
20°	1540.4	1540.4	1548.9	1560.9	1535.2	1550.6	1543.8	1518.1	1518.1	1530.1	1535.2
22.5°	1501.0	1502.7	1511.2	1521.5	1495.8	1511.2	1504.4	1478.7	1480.4	1490.7	1497.5
25°	1449.6	1453.0	1459.8	1470.1	1446.1	1459.8	1449.6	1429.0	1427.3	1439.3	1447.8
27.5°	1382.7	1387.9	1394.7	1403.3	1381.0	1391.3	1384.4	1363.9	1362.2	1374.2	1382.7
30°	1298.8	1305.6	1312.5	1317.6	1297.1	1307.3	1298.8	1279.9	1279.9	1290.2	1295.3
32.5°	1199.4	1206.2	1214.8	1218.2	1197.7	1209.7	1202.8	1182.3	1182.3	1192.5	1202.8
35°	1081.2	1093.2	1098.3	1103.4	1082.9	1089.7	1093.2	1065.7	1069.2	1077.7	1091.4
37.5°	954.4	964.7	971.5	974.9	956.1	962.9	964.7	940.7	944.1	950.9	966.4
40°	812.2	824.2	829.3	831.0	817.3	822.4	824.2	800.2	805.3	810.4	822.4
42.5°	669.9	671.7	676.8	680.2	668.2	669.9	673.4	651.1	658.0	659.7	671.7
45°	510.6	517.5	520.9	524.3	514.0	517.5	517.5	502.0	503.7	507.2	517.5
47.5°	368.4	373.5	377.0	380.4	371.8	375.2	375.2	359.8	365.0	366.7	373.5
50°	251.9	255.3	257.0	255.3	255.3	255.3	255.3	246.7	251.9	246.7	255.3
52.5°	164.5	166.2	169.6	169.6	164.5	167.9	167.9	161.1	162.8	162.8	167.9
55°	101.1	102.8	104.5	102.8	101.1	102.8	102.8	99.4	102.8	99.4	104.5
57.5°	58.3	60.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	56.5	60.0
60°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	34.3
62.5°	20.6	22.3	22.3	22.3	22.3	22.3	22.3	20.6	22.3	22.3	22.3
65°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	18.8
67.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	15.4
70°	10.3	10.3	10.3	10.3	10.3	10.3	12.0	12.0	10.3	12.0	12.0
72.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.9
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	1.7
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: P212819

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1489.0	1475.3	1475.3	1459.8	1473.5	1475.3	1458.1	1453.0	1471.8	1451.3	1461.5
5°	1502.7	1489.0	1489.0	1473.5	1483.8	1483.8	1466.7	1458.1	1477.0	1456.4	1465.0
7.5°	1519.8	1504.4	1501.0	1485.5	1494.1	1495.8	1475.3	1463.3	1482.1	1458.1	1466.7
10°	1524.9	1507.8	1506.1	1490.7	1497.5	1499.2	1475.3	1465.0	1480.4	1454.7	1459.8
12.5°	1536.9	1518.1	1518.1	1502.7	1507.8	1507.8	1483.8	1470.1	1483.8	1458.1	1461.5
15°	1550.6	1530.1	1530.1	1514.7	1518.1	1519.8	1490.7	1477.0	1489.0	1461.5	1465.0
17.5°	1550.6	1528.4	1528.4	1514.7	1516.4	1514.7	1487.2	1471.8	1480.4	1451.3	1453.0
20°	1526.7	1504.4	1507.8	1492.4	1494.1	1492.4	1463.3	1447.8	1456.4	1425.6	1429.0
22.5°	1487.2	1466.7	1470.1	1456.4	1456.4	1454.7	1427.3	1411.9	1420.4	1389.6	1391.3
25°	1437.6	1417.0	1420.4	1406.7	1408.4	1408.4	1381.0	1363.9	1372.5	1345.0	1345.0
27.5°	1372.5	1351.9	1357.0	1348.5	1343.3	1345.0	1321.0	1303.9	1312.5	1286.8	1286.8
30°	1288.5	1271.4	1276.5	1269.6	1264.5	1264.5	1243.9	1226.8	1235.4	1213.1	1211.4
32.5°	1189.1	1175.4	1180.5	1175.4	1170.3	1175.4	1153.1	1136.0	1144.6	1127.4	1129.1
35°	1081.2	1067.5	1070.9	1065.7	1062.3	1065.7	1043.5	1031.5	1040.0	1022.9	1029.8
37.5°	961.2	937.2	947.5	944.1	940.7	942.4	921.8	913.3	923.5	913.3	918.4
40°	820.7	803.6	810.4	807.0	803.6	812.2	796.7	784.7	793.3	786.5	796.7
42.5°	668.2	654.5	663.1	661.4	656.2	666.5	654.5	646.0	659.7	656.2	664.8
45°	514.0	503.7	510.6	510.6	508.9	517.5	505.5	507.2	520.9	526.0	536.3
47.5°	371.8	356.4	365.0	370.1	370.1	378.7	371.8	378.7	394.1	404.4	412.9
50°	253.6	250.2	251.9	253.6	257.0	263.9	262.2	272.4	282.7	299.8	310.1
52.5°	167.9	164.5	167.9	169.6	173.1	179.9	179.9	191.9	203.9	219.3	231.3
55°	104.5	102.8	104.5	106.2	109.7	116.5	118.2	130.2	142.2	157.6	167.9
57.5°	60.0	61.7	61.7	65.1	66.8	72.0	77.1	84.0	97.7	113.1	123.4
60°	34.3	34.3	36.0	37.7	39.4	44.5	48.0	54.8	65.1	80.5	87.4
62.5°	22.3	22.3	24.0	24.0	25.7	29.1	32.6	39.4	48.0	60.0	66.8
65°	18.8	18.8	18.8	20.6	20.6	24.0	27.4	32.6	39.4	48.0	54.8
67.5°	15.4	15.4	15.4	17.1	17.1	18.8	22.3	25.7	30.8	37.7	42.8
70°	12.0	12.0	12.0	13.7	13.7	15.4	17.1	18.8	24.0	29.1	32.6
72.5°	8.6	8.6	10.3	10.3	10.3	12.0	13.7	15.4	18.8	22.3	24.0
75°	6.9	6.9	6.9	6.9	8.6	8.6	10.3	12.0	13.7	15.4	17.1
77.5°	3.4	3.4	5.1	5.1	5.1	6.9	6.9	8.6	10.3	12.0	12.0
80°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	6.9	8.6	8.6
82.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.1	5.1	5.1
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
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: P212819

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1449.6	1454.7	1454.7	1449.6	1435.8	1447.8	1459.8	1447.8	1463.3	1435.8	1435.8
5°	1449.6	1453.0	1451.3	1444.4	1430.7	1441.0	1449.6	1437.6	1449.6	1423.9	1422.1
7.5°	1453.0	1449.6	1446.1	1437.6	1420.4	1427.3	1435.8	1422.1	1434.1	1406.7	1403.3
10°	1446.1	1441.0	1434.1	1422.1	1403.3	1408.4	1413.6	1401.6	1410.1	1382.7	1381.0
12.5°	1446.1	1437.6	1427.3	1413.6	1393.0	1396.4	1401.6	1386.2	1393.0	1367.3	1363.9
15°	1449.6	1434.1	1422.1	1406.7	1384.4	1386.2	1389.6	1372.5	1379.3	1351.9	1350.2
17.5°	1437.6	1420.4	1408.4	1389.6	1365.6	1367.3	1367.3	1350.2	1355.3	1327.9	1326.2
20°	1411.9	1391.3	1377.6	1360.5	1334.8	1334.8	1334.8	1317.6	1321.0	1297.1	1293.6
22.5°	1375.9	1353.6	1339.9	1322.8	1298.8	1297.1	1295.3	1281.6	1281.6	1259.4	1254.2
25°	1327.9	1307.3	1293.6	1278.2	1254.2	1250.8	1250.8	1238.8	1237.1	1216.5	1213.1
27.5°	1273.1	1249.1	1237.1	1223.4	1201.1	1197.7	1196.0	1189.1	1185.7	1163.4	1161.7
30°	1199.4	1178.8	1168.6	1156.6	1136.0	1132.6	1130.9	1124.0	1122.3	1100.0	1100.0
32.5°	1120.6	1094.9	1088.0	1076.0	1060.6	1058.9	1060.6	1052.0	1045.2	1029.8	1026.3
35°	1026.3	1000.6	995.5	990.4	978.4	974.9	973.2	971.5	962.9	952.7	947.5
37.5°	916.7	894.4	894.4	892.7	884.1	884.1	884.1	880.7	872.1	868.7	858.4
40°	798.5	781.3	783.0	784.7	781.3	783.0	784.7	781.3	774.5	771.0	762.5
42.5°	671.7	663.1	669.9	675.1	675.1	680.2	683.7	683.7	675.1	673.4	666.5
45°	544.9	543.2	556.9	567.1	570.6	579.1	584.3	580.8	580.8	580.8	574.0
47.5°	426.6	433.5	445.5	466.1	472.9	483.2	486.6	491.8	490.0	491.8	486.6
50°	323.8	339.3	354.7	375.2	385.5	397.5	402.7	409.5	409.5	411.2	407.8
52.5°	245.0	257.0	282.7	296.4	308.4	320.4	327.3	334.1	335.8	335.8	332.4
55°	181.6	198.8	215.9	234.7	245.0	257.0	262.2	269.0	269.0	272.4	269.0
57.5°	131.9	149.1	167.9	181.6	193.6	202.2	207.3	212.5	215.9	215.9	214.2
60°	97.7	111.4	126.8	140.5	150.8	159.3	162.8	167.9	169.6	169.6	166.2
62.5°	73.7	87.4	101.1	113.1	119.9	126.8	130.2	133.6	133.6	133.6	131.9
65°	60.0	70.3	80.5	90.8	97.7	102.8	104.5	107.9	106.2	107.9	106.2
67.5°	48.0	54.8	63.4	70.3	75.4	78.8	80.5	84.0	82.2	84.0	82.2
70°	36.0	42.8	48.0	53.1	56.5	60.0	61.7	63.4	61.7	63.4	61.7
72.5°	27.4	30.8	36.0	41.1	42.8	44.5	46.3	46.3	46.3	48.0	46.3
75°	18.8	22.3	25.7	27.4	30.8	32.6	32.6	34.3	34.3	34.3	34.3
77.5°	13.7	15.4	17.1	18.8	20.6	22.3	22.3	24.0	24.0	24.0	24.0
80°	8.6	10.3	10.3	12.0	13.7	13.7	15.4	15.4	15.4	15.4	15.4
82.5°	5.1	6.9	6.9	8.6	8.6	8.6	10.3	10.3	10.3	10.3	10.3
85°	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	1.7	1.7
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: P212819

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1471.8	1471.8	1471.8	1471.8
2.5°	1449.6	1441.0	1454.7	1434.1
5°	1434.1	1425.6	1442.7	1417.0
7.5°	1415.3	1406.7	1422.1	1396.4
10°	1391.3	1382.7	1396.4	1369.0
12.5°	1370.7	1362.2	1377.6	1351.9
15°	1355.3	1346.7	1360.5	1336.5
17.5°	1331.3	1321.0	1336.5	1310.8
20°	1297.1	1290.2	1302.2	1276.5
22.5°	1257.7	1250.8	1264.5	1238.8
25°	1216.5	1208.0	1221.7	1196.0
27.5°	1163.4	1156.6	1170.3	1144.6
30°	1100.0	1093.2	1106.9	1082.9
32.5°	1028.1	1021.2	1031.5	1010.9
35°	945.8	940.7	950.9	928.7
37.5°	856.7	851.6	861.9	839.6
40°	760.8	755.6	764.2	753.9
42.5°	666.5	661.4	669.9	661.4
45°	574.0	570.6	579.1	570.6
47.5°	488.3	484.9	493.5	484.9
50°	406.1	407.8	411.2	407.8
52.5°	332.4	332.4	337.5	332.4
55°	269.0	270.7	272.4	269.0
57.5°	214.2	214.2	215.9	214.2
60°	166.2	167.9	167.9	166.2
62.5°	131.9	131.9	131.9	131.9
65°	104.5	104.5	106.2	104.5
67.5°	82.2	80.5	82.2	80.5
70°	61.7	61.7	61.7	61.7
72.5°	48.0	48.0	46.3	46.3
75°	34.3	36.0	34.3	34.3
77.5°	24.0	24.0	24.0	24.0
80°	15.4	15.4	15.4	15.4
82.5°	10.3	10.3	10.3	10.3
85°	6.9	5.1	5.1	5.1
87.5°	3.4	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)