

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: P136572

Luminaire Tested: **LD6A30D010TE ERW6A30927 6LW121LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23360)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A30D010TE ERW6A30927 6LW121LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2531.7 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.14
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

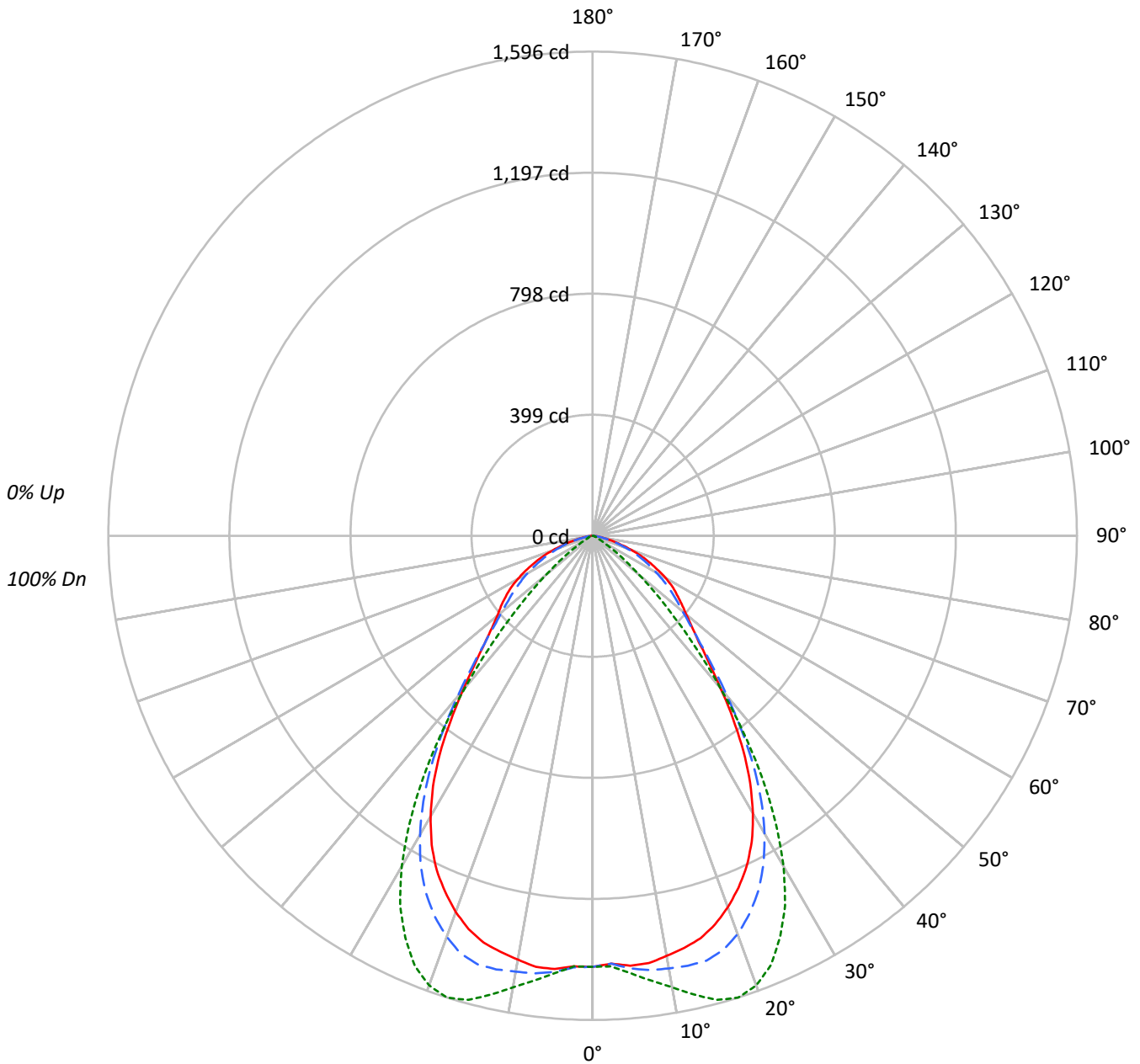
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63																			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92687	92687	92687
5°	93159	94823	93873
10°	93157	100119	93998
15°	92776	106973	93755
20°	90457	109460	91589
25°	86483	105141	87527
30°	79582	94747	80411
35°	68988	77645	69999
40°	55869	55869	56635
45°	45652	35448	46483
50°	40832	20228	41573
55°	38548	10305	39787
60°	36182	4489	37122
65°	31615	2516	32727
70°	25580	2079	26610
75°	17821	1386	18275
80°	10895	676	10895
85°	5390	1347	5390



TEST NUMBER: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	5.5
10°-20°	414.1	16.4
20°-30°	602.5	23.8
30°-40°	572.5	22.6
40°-50°	370.9	14.7
50°-60°	232.7	9.2
60°-70°	139.2	5.5
70°-80°	54.3	2.1
80°-90°	7.4	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°	1154.7	45.6
0°-40°	1727.3	68.2
0°-60°	2330.9	92.1
0°-90°	2531.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1421	1421	1421	1421	1421	
5°	1422	1432	1448	1442	1433	135
15°	1374	1450	1584	1462	1388	386
25°	1201	1292	1461	1299	1216	549
35°	866	924	975	928	879	536
45°	495	502	384	504	504	391
55°	339	312	91	315	350	304
65°	205	179	16	183	212	203
75°	71	62	6	64	72	79
85°	7	7	2	7	7	11
90°	0	0	0	0	0	



TEST NUMBER: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7
2.5°	1411.7	1402.6	1427.9	1413.5	1415.2	1433.4	1418.9	1413.5	1431.6	1411.7	1420.7
5°	1422.5	1415.2	1440.6	1427.9	1429.8	1447.9	1435.2	1429.8	1449.8	1431.6	1440.6
7.5°	1420.7	1415.2	1438.8	1427.9	1429.8	1451.5	1438.8	1437.1	1460.6	1444.3	1457.0
10°	1406.2	1399.0	1424.4	1415.2	1418.9	1442.4	1431.6	1431.6	1458.8	1447.9	1466.0
12.5°	1391.7	1384.5	1409.9	1402.6	1406.2	1431.6	1424.4	1427.9	1458.8	1451.5	1475.0
15°	1373.6	1366.4	1393.5	1386.3	1390.0	1417.1	1413.5	1417.1	1451.5	1449.8	1476.9
17.5°	1342.8	1339.2	1362.7	1359.1	1362.7	1390.0	1388.1	1393.5	1431.6	1431.6	1466.0
20°	1302.9	1297.5	1322.8	1319.2	1321.0	1348.2	1348.2	1353.7	1393.5	1397.2	1431.6
22.5°	1255.8	1252.2	1277.6	1272.1	1275.7	1301.1	1301.1	1306.6	1344.6	1350.1	1386.3
25°	1201.4	1197.9	1221.4	1219.6	1221.4	1246.8	1245.0	1252.2	1288.4	1292.1	1326.5
27.5°	1136.2	1130.8	1154.3	1154.3	1156.1	1179.7	1179.7	1183.3	1215.9	1219.6	1252.2
30°	1056.4	1051.0	1072.8	1074.6	1074.6	1098.2	1098.2	1100.0	1130.8	1132.6	1161.6
32.5°	965.9	965.9	982.2	984.0	984.0	1005.8	1007.6	1007.6	1034.7	1034.7	1058.3
35°	866.2	868.0	880.7	882.5	884.3	904.2	904.2	902.4	926.0	924.2	944.1
37.5°	759.3	759.3	771.9	773.8	773.8	791.9	791.9	790.1	810.0	804.6	819.1
40°	656.0	656.0	666.9	670.5	668.7	683.2	683.2	681.4	695.9	688.6	695.9
42.5°	565.4	569.0	576.3	578.1	576.3	589.0	587.2	585.3	596.2	585.3	587.2
45°	494.8	498.3	503.8	505.6	503.8	512.8	511.0	507.4	512.8	502.0	496.5
47.5°	442.2	444.0	453.0	451.2	449.4	456.7	456.7	449.4	451.2	436.7	425.8
50°	402.3	404.1	411.4	411.4	407.7	415.0	411.4	404.1	402.3	386.0	369.7
52.5°	369.7	371.5	378.7	378.7	375.2	380.5	376.9	366.0	364.2	347.9	328.0
55°	338.9	340.6	347.9	347.9	344.3	347.9	342.5	333.4	329.8	311.7	290.0
57.5°	311.7	309.9	315.4	315.4	311.7	313.5	309.9	300.8	293.5	277.3	255.5
60°	277.3	275.5	279.1	279.1	275.5	277.3	273.6	262.8	259.1	242.9	221.0
62.5°	239.2	239.2	242.9	242.9	239.2	239.2	237.4	226.5	222.9	208.4	190.3
65°	204.8	204.8	208.4	208.4	204.8	206.6	203.0	195.7	192.1	179.4	163.1
67.5°	170.4	170.4	172.2	172.2	170.4	170.4	168.5	163.1	157.7	148.6	134.1
70°	134.1	134.1	135.9	135.9	134.1	134.1	134.1	128.6	126.8	117.8	106.9
72.5°	99.7	99.7	101.4	101.4	101.4	103.3	101.4	97.9	94.2	88.8	79.7
75°	70.7	70.7	70.7	72.5	70.7	70.7	72.5	68.8	67.0	61.6	56.1
77.5°	47.1	47.1	47.1	47.1	47.1	48.9	47.1	47.1	45.3	41.7	38.1
80°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	27.2	27.2	23.6
82.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.5	12.7
85°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	5.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7
2.5°	1418.9	1420.7	1420.7	1426.2	1431.6	1417.1	1424.4	1420.7	1417.1	1431.6	1422.5
5°	1442.4	1444.3	1444.3	1451.5	1458.8	1442.4	1449.8	1447.9	1444.3	1457.0	1447.9
7.5°	1460.6	1466.0	1469.7	1478.7	1487.7	1473.3	1482.3	1478.7	1476.9	1489.6	1476.9
10°	1473.3	1484.2	1489.6	1504.1	1516.8	1502.3	1514.9	1511.3	1509.6	1520.4	1505.9
12.5°	1487.7	1502.3	1516.8	1533.1	1551.2	1538.5	1554.8	1549.4	1549.4	1558.4	1540.3
15°	1496.9	1514.9	1534.8	1558.4	1580.2	1571.1	1589.3	1583.8	1583.8	1591.1	1571.1
17.5°	1487.7	1511.3	1534.8	1562.1	1587.4	1582.0	1601.9	1596.5	1594.6	1601.9	1578.4
20°	1457.0	1484.2	1511.3	1538.5	1567.5	1563.9	1585.6	1576.6	1578.4	1582.0	1558.4
22.5°	1408.0	1437.1	1464.2	1493.2	1520.4	1518.6	1538.5	1533.1	1531.3	1536.7	1511.3
25°	1350.1	1375.4	1400.8	1426.2	1453.3	1449.8	1469.7	1460.6	1462.4	1464.2	1442.4
27.5°	1272.1	1295.6	1315.6	1337.4	1362.7	1357.3	1377.3	1373.6	1368.1	1370.0	1351.9
30°	1176.0	1196.0	1210.5	1228.6	1248.5	1243.1	1261.2	1257.7	1254.0	1254.0	1243.1
32.5°	1067.4	1081.8	1090.9	1103.6	1118.1	1112.7	1127.2	1123.5	1119.9	1119.9	1112.7
35°	946.0	955.0	955.0	962.2	973.1	964.0	976.7	974.9	969.5	971.3	969.5
37.5°	813.7	817.3	810.0	810.0	817.3	804.6	815.5	815.5	810.0	811.8	811.8
40°	685.0	683.2	668.7	661.5	661.5	648.8	657.8	656.0	652.3	654.2	657.8
42.5°	570.8	559.9	540.0	525.5	521.9	507.4	512.8	511.0	507.4	511.0	516.5
45°	474.8	454.9	427.6	407.7	398.7	384.2	386.0	384.2	382.4	386.0	395.1
47.5°	398.7	371.5	337.1	311.7	299.0	282.7	282.7	280.8	280.8	290.0	295.4
50°	338.9	306.2	266.4	237.4	219.3	204.8	201.1	199.3	201.1	208.4	219.3
52.5°	293.5	253.7	210.2	179.4	159.5	143.2	139.5	137.7	139.5	146.8	157.7
55°	253.7	212.0	166.7	132.3	110.6	96.0	90.6	90.6	90.6	99.7	110.6
57.5°	217.5	175.8	130.5	96.0	76.1	61.6	56.1	54.3	58.0	63.5	74.3
60°	186.6	146.8	103.3	72.5	52.6	39.9	34.4	34.4	34.4	41.7	52.6
62.5°	159.5	123.3	83.4	54.3	38.1	27.2	21.7	21.7	23.6	27.2	38.1
65°	135.9	105.1	70.7	47.1	30.8	21.7	18.1	16.3	18.1	21.7	30.8
67.5°	112.4	87.0	59.8	39.9	27.2	18.1	16.3	14.5	14.5	19.9	25.4
70°	88.8	68.8	48.9	32.6	21.7	14.5	12.7	10.9	12.7	16.3	21.7
72.5°	67.0	52.6	36.2	25.4	16.3	12.7	9.0	9.0	9.0	12.7	16.3
75°	47.1	38.1	27.2	18.1	10.9	7.2	7.2	5.5	7.2	9.0	10.9
77.5°	30.8	25.4	18.1	10.9	7.2	5.5	3.7	3.7	3.7	5.5	7.2
80°	19.9	16.3	10.9	7.2	5.5	3.7	1.8	1.8	1.8	3.7	3.7
82.5°	10.9	9.0	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8
85°	5.5	3.7	3.7	1.8	1.8	1.8	0.0	1.8	1.8	1.8	1.8
87.5°	1.8	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: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7	1420.7
2.5°	1424.4	1418.9	1426.2	1431.6	1429.8	1424.4	1433.4	1418.9	1424.4	1418.9	1409.9
5°	1449.8	1444.3	1449.8	1453.3	1451.5	1442.4	1449.8	1437.1	1440.6	1433.4	1424.4
7.5°	1476.9	1469.7	1471.5	1473.3	1467.8	1455.1	1460.6	1444.3	1446.1	1437.1	1426.2
10°	1502.3	1491.4	1489.6	1486.0	1475.0	1458.8	1460.6	1440.6	1438.8	1426.2	1413.5
12.5°	1534.8	1516.8	1509.6	1502.3	1486.0	1464.2	1460.6	1437.1	1433.4	1418.9	1404.4
15°	1558.4	1538.5	1525.8	1511.3	1489.6	1462.4	1455.1	1427.9	1420.7	1404.4	1390.0
17.5°	1563.9	1538.5	1520.4	1502.3	1476.9	1444.3	1433.4	1404.4	1395.3	1377.3	1362.7
20°	1540.3	1513.1	1493.2	1469.7	1444.3	1406.2	1395.3	1364.6	1353.7	1337.4	1322.8
22.5°	1495.0	1464.2	1444.3	1420.7	1395.3	1359.1	1346.4	1317.5	1306.6	1290.3	1275.7
25°	1429.8	1400.8	1380.8	1359.1	1335.5	1299.3	1288.4	1261.2	1252.2	1235.8	1221.4
27.5°	1339.2	1312.0	1301.1	1279.4	1257.7	1226.8	1215.9	1192.4	1183.3	1172.5	1156.1
30°	1230.5	1206.9	1201.4	1181.5	1165.2	1138.1	1128.9	1109.0	1100.0	1090.9	1076.4
32.5°	1105.4	1087.3	1087.3	1070.9	1060.1	1038.4	1031.1	1014.8	1007.6	1000.3	987.6
35°	964.0	951.3	958.6	947.8	942.3	927.8	922.4	909.7	904.2	898.8	886.2
37.5°	813.7	804.6	819.1	820.9	820.9	808.2	804.6	797.3	793.8	788.3	777.4
40°	665.0	663.2	685.0	688.6	699.4	692.2	694.1	688.6	685.0	681.4	674.2
42.5°	527.3	534.6	561.8	578.1	589.0	589.0	594.4	592.5	590.8	587.2	581.7
45°	409.6	424.0	456.7	476.6	498.3	503.8	512.8	512.8	514.7	512.8	507.4
47.5°	313.5	335.3	373.3	404.1	427.6	438.5	451.2	454.9	456.7	456.7	453.0
50°	237.4	264.6	308.0	342.5	375.2	389.6	404.1	409.6	416.8	415.0	411.4
52.5°	179.4	210.2	257.3	299.0	333.4	349.8	366.0	373.3	380.5	380.5	378.7
55°	132.3	164.9	215.7	259.1	295.4	315.4	331.6	338.9	347.9	349.8	347.9
57.5°	96.0	128.6	177.6	224.7	259.1	280.8	297.2	304.4	313.5	315.4	315.4
60°	70.7	103.3	150.4	193.9	226.5	248.2	260.9	270.0	277.3	280.8	280.8
62.5°	54.3	83.4	126.8	166.7	195.7	213.8	226.5	233.7	241.0	242.9	244.7
65°	45.3	70.7	106.9	141.3	166.7	183.1	193.9	201.1	206.6	208.4	208.4
67.5°	38.1	59.8	88.8	116.0	137.7	150.4	159.5	164.9	170.4	172.2	172.2
70°	30.8	47.1	70.7	92.4	108.7	119.6	126.8	132.3	135.9	135.9	135.9
72.5°	23.6	36.2	52.6	68.8	81.5	90.6	96.0	97.9	101.4	101.4	101.4
75°	16.3	25.4	38.1	48.9	56.1	63.5	67.0	68.8	70.7	72.5	70.7
77.5°	10.9	16.3	23.6	30.8	38.1	41.7	43.5	45.3	47.1	47.1	47.1
80°	7.2	10.9	14.5	19.9	23.6	25.4	27.2	27.2	29.0	29.0	29.0
82.5°	3.7	5.5	9.0	10.9	12.7	14.5	14.5	14.5	16.3	16.3	14.5
85°	1.8	1.8	3.7	5.5	5.5	7.2	7.2	7.2	7.2	7.2	7.2
87.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P136572

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW121LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1420.7	1420.7	1420.7	1420.7
2.5°	1413.5	1417.1	1402.6	1420.7
5°	1426.2	1429.8	1415.2	1433.4
7.5°	1427.9	1429.8	1415.2	1433.4
10°	1415.2	1415.2	1400.8	1418.9
12.5°	1404.4	1402.6	1386.3	1404.4
15°	1388.1	1386.3	1370.0	1388.1
17.5°	1360.9	1359.1	1342.8	1359.1
20°	1319.2	1317.5	1302.9	1319.2
22.5°	1273.9	1270.3	1255.8	1270.3
25°	1221.4	1217.8	1203.2	1215.9
27.5°	1154.3	1150.7	1136.2	1148.9
30°	1074.6	1069.1	1058.3	1067.4
32.5°	984.0	980.4	967.7	978.6
35°	884.3	878.9	869.8	878.9
37.5°	775.6	771.9	762.9	768.4
40°	670.5	668.7	661.5	665.0
42.5°	579.8	576.3	570.8	574.5
45°	507.4	505.6	500.1	503.8
47.5°	453.0	451.2	445.8	449.4
50°	413.1	411.4	407.7	409.6
52.5°	380.5	378.7	375.2	380.5
55°	351.6	349.8	344.3	349.8
57.5°	318.9	317.1	311.7	318.9
60°	282.7	282.7	277.3	284.5
62.5°	246.4	246.4	242.9	248.2
65°	212.0	210.2	208.4	212.0
67.5°	173.9	172.2	172.2	175.8
70°	137.7	135.9	135.9	139.5
72.5°	103.3	101.4	101.4	103.3
75°	72.5	70.7	70.7	72.5
77.5°	47.1	47.1	47.1	47.1
80°	29.0	29.0	29.0	29.0
82.5°	16.3	16.3	14.5	16.3
85°	7.2	7.2	7.2	7.2
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)