

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244149

Luminaire Tested: **LD8B30D010 ER8B309727 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B309727 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2277.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

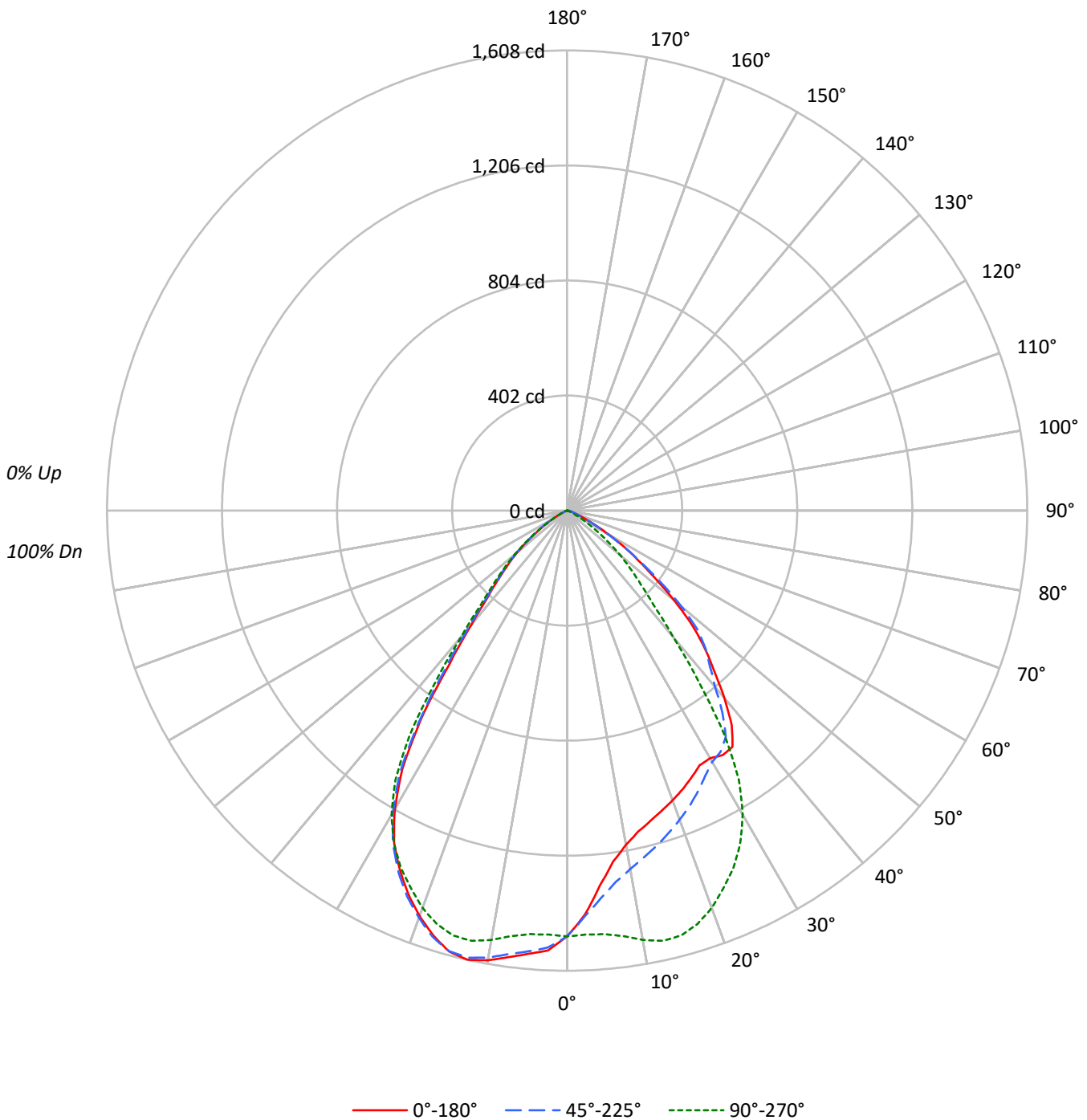
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	6.1
10°-20°	400.4	17.6
20°-30°	581.2	25.5
30°-40°	572.4	25.1
40°-50°	358.8	15.8
50°-60°	173.1	7.6
60°-70°	41.9	1.8
70°-80°	8.5	0.4
80°-90°	1.9	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°	1120.3	49.2
0°-40°	1692.7	74.3
0°-60°	2224.7	97.7
0°-90°	2277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1488	1488	1488	1488	1488	
5°	1315	1359	1486	1546	1555	122
15°	1123	1212	1538	1594	1595	318
25°	1029	1082	1376	1394	1384	476
35°	1007	966	960	906	891	609
45°	680	685	363	348	338	520
55°	302	312	132	130	124	278
65°	71	70	20	17	15	81
75°	17	15	4	2	2	19
85°	5	4	1	0	0	5
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°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1414.0	1405.1	1388.2	1408.6	1408.6	1397.2	1419.9	1406.2	1417.2	1434.4	1419.1
5°	1314.8	1307.3	1293.3	1314.8	1317.5	1307.0	1334.3	1324.1	1340.2	1361.3	1359.3
7.5°	1236.2	1226.8	1213.9	1236.2	1240.5	1233.5	1259.7	1255.0	1276.1	1303.4	1308.1
10°	1185.0	1175.2	1163.9	1184.2	1187.4	1182.7	1209.2	1206.5	1227.2	1258.9	1271.4
12.5°	1148.7	1140.5	1127.9	1149.4	1153.0	1146.3	1171.3	1170.2	1191.7	1224.9	1240.5
15°	1123.3	1113.5	1102.2	1120.5	1125.2	1117.8	1141.6	1139.3	1161.2	1194.0	1211.6
17.5°	1099.4	1090.4	1078.7	1095.9	1100.6	1092.8	1116.2	1112.3	1131.1	1162.3	1180.3
20°	1077.1	1067.4	1056.8	1074.4	1077.1	1068.2	1091.6	1086.5	1103.3	1132.2	1149.8
22.5°	1054.1	1043.9	1033.0	1050.2	1052.9	1043.9	1065.4	1059.6	1075.2	1101.4	1117.4
25°	1028.7	1019.3	1008.4	1024.4	1026.7	1017.0	1039.6	1032.2	1045.9	1068.9	1082.2
27.5°	1003.3	994.3	982.2	998.6	999.8	990.4	1011.1	1000.9	1012.3	1033.4	1044.7
30°	999.0	988.8	976.3	989.6	990.0	977.9	997.4	985.3	991.5	1007.2	1013.8
32.5°	1012.7	1002.5	989.6	1000.5	999.4	986.1	1004.8	990.0	991.9	1000.1	998.6
35°	1007.2	995.1	979.8	991.5	991.5	975.5	994.3	976.7	974.7	975.9	966.1
37.5°	945.0	935.7	921.2	932.5	931.4	919.2	933.7	919.2	912.6	909.9	892.3
40°	853.6	842.2	831.3	843.4	844.6	831.7	850.5	834.0	832.1	824.3	803.6
42.5°	761.0	757.0	746.5	756.7	762.1	751.2	766.8	759.0	760.2	758.2	738.7
45°	680.1	673.4	665.6	677.3	680.8	675.4	691.0	686.3	691.0	700.8	684.7
47.5°	592.9	586.3	577.7	590.2	596.4	586.3	599.5	598.0	605.0	621.8	620.3
50°	487.8	483.1	481.5	483.1	487.0	482.3	491.7	492.1	496.8	519.8	521.4
52.5°	386.1	385.0	379.5	384.6	384.6	377.2	386.5	382.2	386.9	402.6	412.7
55°	302.1	300.9	297.4	302.1	297.0	294.3	297.0	292.7	289.2	301.3	311.9
57.5°	235.3	231.4	227.1	229.0	228.6	222.8	225.9	220.8	218.1	222.4	231.8
60°	167.7	166.5	162.6	164.5	166.1	161.8	164.9	162.6	157.9	161.4	161.8
62.5°	111.4	112.2	109.8	110.2	109.0	108.3	110.2	111.4	110.2	108.7	109.0
65°	70.7	70.4	70.0	70.4	71.1	69.6	70.7	71.5	70.4	70.4	70.0
67.5°	46.9	45.7	44.6	45.3	46.1	44.9	46.1	45.7	46.1	45.7	44.6
70°	31.7	31.3	30.9	31.3	31.3	30.5	31.3	30.9	31.3	30.9	29.7
72.5°	23.1	23.1	22.7	23.1	23.1	22.3	22.7	21.9	22.3	21.9	21.1
75°	17.2	17.2	16.8	17.2	16.8	16.4	16.8	16.4	15.6	15.6	14.9
77.5°	12.5	12.5	12.5	12.5	12.5	12.1	12.1	11.7	11.3	10.9	10.9
80°	9.4	9.0	9.0	9.0	9.0	8.6	9.0	8.6	8.2	7.8	7.4
82.5°	6.6	7.0	6.6	6.6	6.6	6.3	6.6	6.3	6.3	5.9	5.1
85°	5.1	5.1	5.1	5.1	5.1	4.7	4.7	4.7	4.3	4.3	3.9
87.5°	2.7	2.7	2.7	3.1	2.7	2.7	2.7	2.3	2.3	2.0	2.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1439.4	1441.4	1437.1	1443.7	1469.5	1448.8	1457.4	1460.2	1479.7	1483.2	1480.9
5°	1384.7	1393.3	1398.8	1413.7	1442.2	1427.3	1442.6	1452.3	1477.4	1485.6	1487.5
7.5°	1341.7	1359.7	1373.0	1397.2	1430.8	1419.5	1442.6	1458.6	1489.1	1499.6	1504.7
10°	1309.7	1337.0	1360.1	1393.3	1431.2	1423.8	1453.9	1476.6	1510.6	1523.1	1529.3
12.5°	1285.5	1318.7	1349.6	1391.8	1432.8	1429.3	1465.6	1491.4	1527.4	1539.9	1547.3
15°	1258.9	1297.2	1333.1	1380.4	1424.6	1423.8	1462.9	1490.3	1527.0	1537.5	1544.6
17.5°	1227.2	1268.3	1307.7	1358.9	1402.7	1403.5	1443.0	1469.9	1505.9	1514.5	1519.2
20°	1195.2	1235.8	1275.3	1328.1	1371.0	1372.2	1410.9	1435.9	1470.3	1477.4	1478.5
22.5°	1161.2	1199.1	1238.6	1290.9	1332.4	1333.1	1371.4	1394.9	1424.2	1427.7	1430.8
25°	1122.5	1159.6	1196.7	1248.7	1288.2	1290.5	1325.3	1346.0	1373.0	1375.7	1376.9
27.5°	1082.2	1112.7	1148.3	1192.8	1232.7	1231.1	1264.0	1287.4	1311.6	1310.1	1309.7
30°	1041.6	1067.0	1088.9	1131.9	1161.2	1162.3	1193.2	1204.6	1230.0	1226.8	1226.4
32.5°	1013.0	1019.7	1025.6	1047.4	1075.2	1065.4	1086.5	1100.6	1118.2	1117.0	1117.4
35°	960.7	948.6	931.0	934.1	950.9	935.7	947.0	946.6	964.6	960.3	965.4
37.5°	871.2	836.8	797.7	775.4	778.5	759.4	755.5	764.9	771.1	759.0	763.3
40°	775.8	725.0	664.0	613.2	610.5	586.6	582.3	573.0	585.1	574.9	578.0
42.5°	705.5	638.2	558.1	496.4	483.1	463.1	451.4	449.9	453.4	446.3	444.4
45°	651.5	580.0	488.2	417.4	402.6	381.1	369.3	365.0	365.4	363.1	361.1
47.5°	588.2	516.3	423.3	351.0	334.2	313.8	302.1	299.4	300.9	297.8	295.5
50°	500.7	436.2	351.4	285.3	270.5	255.6	246.2	243.5	243.1	240.8	239.2
52.5°	406.5	352.9	279.4	224.3	211.1	196.6	189.9	186.4	186.8	184.5	182.1
55°	314.6	281.4	216.5	169.6	157.5	146.2	139.9	135.6	134.4	132.1	130.9
57.5°	234.1	211.8	162.2	122.3	115.3	104.4	98.1	93.0	92.2	91.1	90.7
60°	164.2	148.1	114.1	87.2	78.9	72.3	66.1	61.0	58.6	58.2	57.1
62.5°	106.3	96.5	75.0	58.2	52.0	47.3	41.0	37.5	36.0	34.4	34.8
65°	66.1	58.6	46.9	37.5	34.0	30.5	25.8	22.7	21.1	19.5	19.9
67.5°	41.0	36.7	29.7	24.2	21.9	19.2	15.6	13.3	12.1	10.9	10.2
70°	27.7	23.8	20.3	17.2	15.6	13.7	11.3	9.4	8.6	7.8	7.0
72.5°	19.5	17.6	14.9	12.9	11.7	10.2	8.6	7.4	6.6	5.9	5.1
75°	14.1	12.5	10.9	9.4	8.6	7.8	6.6	5.9	5.1	4.3	3.5
77.5°	10.2	9.0	7.8	7.0	6.6	5.5	4.7	4.3	3.9	3.1	2.3
80°	7.0	6.3	5.1	4.7	4.7	3.9	3.5	3.1	2.7	2.0	1.6
82.5°	4.7	4.3	3.9	3.5	3.1	2.7	2.7	2.0	1.6	1.2	0.8
85°	3.5	3.1	2.7	2.3	2.3	2.0	1.6	1.2	1.2	0.8	0.4
87.5°	2.0	2.0	1.6	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.4
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°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1500.8	1502.0	1508.6	1503.5	1516.4	1525.8	1521.1	1531.7	1528.2	1527.4	1539.5
5°	1511.0	1513.7	1522.7	1518.0	1532.1	1542.2	1537.5	1549.3	1545.8	1545.0	1557.5
7.5°	1530.5	1533.2	1541.1	1537.2	1552.0	1561.0	1555.1	1568.0	1563.3	1562.9	1575.1
10°	1555.1	1559.0	1565.7	1561.8	1575.5	1583.3	1577.4	1589.9	1585.6	1583.7	1597.0
12.5°	1573.5	1576.2	1582.9	1579.8	1593.0	1598.9	1593.8	1605.9	1600.5	1598.9	1610.6
15°	1569.2	1571.9	1577.4	1574.7	1587.2	1592.7	1586.0	1599.3	1593.8	1590.7	1601.3
17.5°	1541.8	1543.4	1547.3	1544.6	1557.9	1561.4	1554.0	1567.2	1562.2	1556.7	1566.9
20°	1501.6	1500.8	1503.2	1502.0	1512.9	1514.9	1510.2	1520.0	1514.1	1511.0	1516.8
22.5°	1451.6	1450.8	1452.3	1449.2	1460.2	1461.3	1454.3	1466.0	1460.2	1454.3	1464.1
25°	1396.1	1391.8	1391.0	1392.2	1399.6	1400.8	1393.3	1401.9	1394.5	1389.8	1399.2
27.5°	1327.7	1322.2	1321.0	1322.2	1329.6	1324.1	1317.9	1324.1	1316.7	1312.4	1318.3
30°	1243.2	1235.4	1231.9	1229.6	1237.4	1235.4	1221.0	1228.0	1216.3	1210.0	1214.3
32.5°	1129.5	1125.2	1115.8	1110.4	1117.8	1102.9	1093.9	1093.9	1089.3	1078.7	1081.0
35°	971.6	965.0	956.4	951.7	952.9	932.9	918.1	921.2	905.6	902.8	904.0
37.5°	771.9	761.0	757.8	748.1	750.4	732.8	712.5	712.9	704.7	696.1	693.3
40°	580.0	578.0	574.9	566.7	569.8	550.7	542.9	543.3	537.8	531.5	534.7
42.5°	448.3	442.0	440.1	437.3	438.1	435.0	424.8	426.0	421.3	419.8	418.2
45°	364.3	357.6	352.9	355.3	355.3	351.8	347.8	350.2	347.8	344.7	346.3
47.5°	300.2	293.9	291.6	291.2	293.9	291.6	287.7	288.4	288.0	286.9	286.1
50°	239.6	238.0	236.1	234.9	236.1	235.3	231.8	233.7	234.9	231.0	232.2
52.5°	182.5	182.5	182.1	179.4	181.7	179.4	179.0	179.8	178.6	177.0	176.7
55°	133.7	132.5	130.5	130.1	130.9	130.1	129.4	129.8	130.5	126.6	126.6
57.5°	91.5	90.7	89.5	89.5	91.1	89.1	87.9	89.5	87.9	86.4	86.4
60°	58.6	58.2	57.1	57.1	57.1	56.7	55.5	55.9	56.7	54.3	54.7
62.5°	35.2	34.0	33.6	33.2	33.6	33.2	33.2	32.8	32.4	32.4	31.3
65°	19.2	18.4	17.6	18.0	18.0	17.6	17.6	17.6	16.8	16.4	16.0
67.5°	9.8	9.0	9.0	8.6	8.6	8.6	8.6	8.2	8.2	8.2	7.8
70°	6.3	5.9	5.5	5.5	5.5	5.1	5.1	5.1	5.1	5.1	4.7
72.5°	4.3	3.9	3.5	3.5	3.5	3.1	3.1	3.1	3.1	2.7	2.7
75°	3.1	2.7	2.3	2.3	2.3	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	0.8
80°	1.2	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
82.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.4	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: P244149

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5	1487.5
2.5°	1535.2	1532.1	1534.0	1548.5	1542.2	1540.3	1523.9	1538.3
5°	1553.6	1551.2	1551.2	1567.6	1560.2	1558.6	1542.6	1555.1
7.5°	1570.8	1568.4	1568.8	1585.6	1579.8	1577.4	1561.4	1573.9
10°	1593.0	1591.5	1591.9	1607.9	1601.6	1599.3	1582.9	1595.8
12.5°	1606.3	1604.0	1604.0	1621.2	1614.1	1610.6	1595.0	1607.5
15°	1596.2	1592.7	1592.7	1609.8	1602.0	1597.0	1583.3	1595.0
17.5°	1561.4	1557.9	1557.9	1572.7	1566.9	1559.4	1545.4	1556.3
20°	1512.9	1508.6	1507.5	1524.6	1516.4	1509.8	1497.3	1507.8
22.5°	1458.2	1456.3	1452.7	1469.9	1462.5	1455.5	1442.2	1450.4
25°	1392.5	1389.4	1385.9	1402.7	1395.3	1388.2	1377.7	1384.3
27.5°	1310.9	1311.3	1309.3	1322.6	1315.2	1311.3	1298.4	1309.3
30°	1212.0	1207.7	1206.1	1221.8	1214.7	1209.6	1193.6	1204.2
32.5°	1083.0	1076.8	1068.5	1086.1	1074.0	1069.7	1056.0	1071.3
35°	895.4	893.4	886.0	900.9	894.2	886.4	877.8	890.7
37.5°	692.2	693.7	693.0	696.9	693.0	687.9	678.5	673.8
40°	528.4	524.5	521.4	528.4	520.2	520.2	514.7	520.6
42.5°	414.3	412.7	416.6	418.2	413.5	412.7	411.9	411.5
45°	342.0	342.0	342.8	344.3	342.8	342.0	339.6	338.1
47.5°	281.8	283.4	281.8	286.9	284.1	283.4	278.7	280.6
50°	228.2	226.3	228.2	229.8	230.2	227.9	225.5	226.7
52.5°	177.0	173.9	173.1	175.5	173.9	173.9	172.4	172.0
55°	124.7	125.8	123.9	125.8	125.1	123.9	122.7	124.3
57.5°	84.4	84.8	84.0	85.2	83.2	83.6	83.2	82.9
60°	54.7	53.2	53.2	54.3	52.4	52.4	52.0	52.0
62.5°	31.3	30.9	30.9	30.5	30.1	30.1	30.1	29.3
65°	16.0	15.6	15.2	15.2	15.2	15.2	14.9	14.9
67.5°	7.8	7.4	7.4	7.8	7.4	7.4	7.4	7.4
70°	4.7	4.7	4.3	4.7	4.3	4.3	4.3	4.3
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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

(END OF REPORT)