

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: P245445

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245445
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: LSR8B30D010 EC8B30927 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2470.5 lumens
Efficiency: N/A
Efficacy: 91.2 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

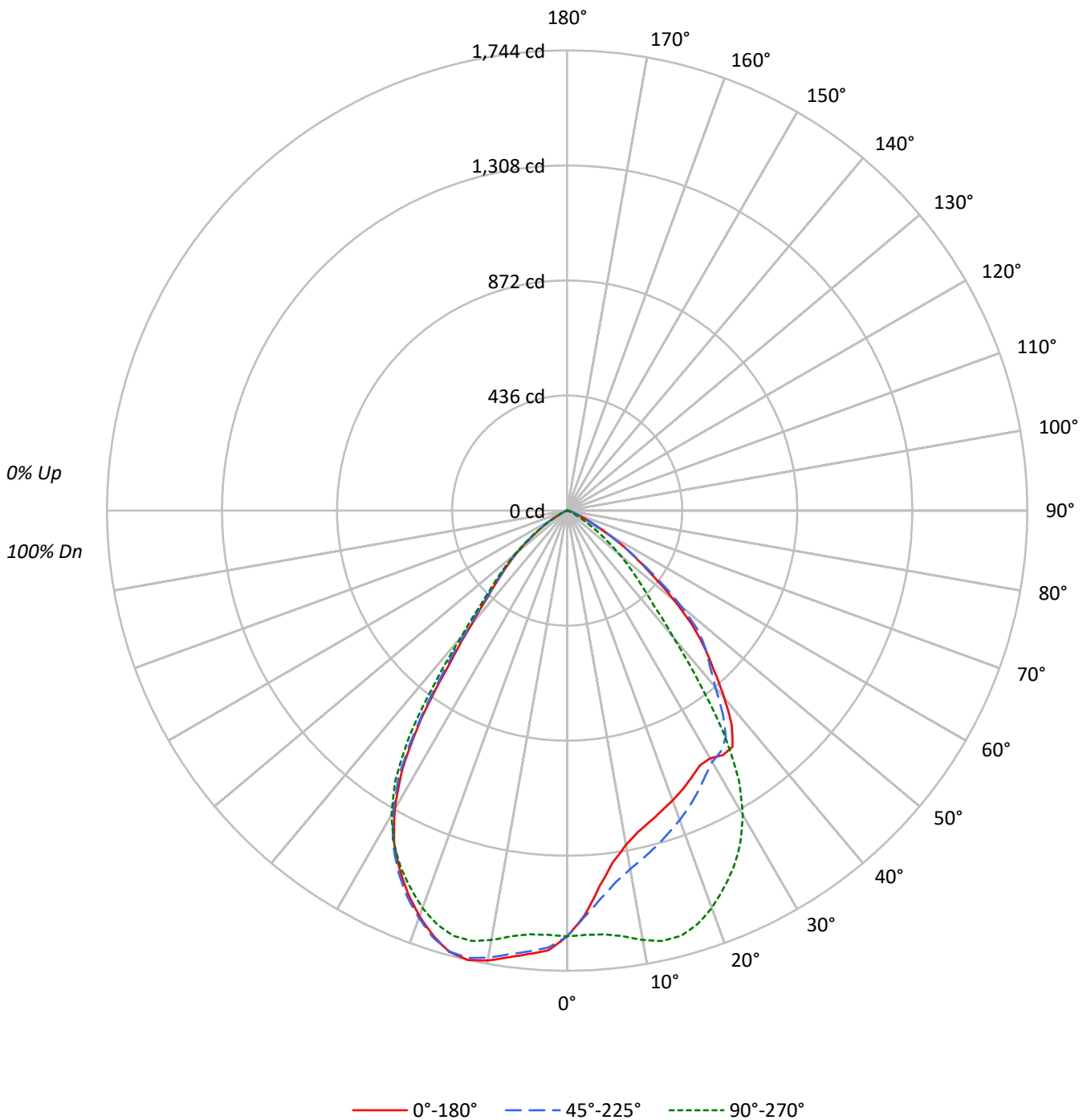
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	150.4	6.1
10°-20°	434.5	17.6
20°-30°	630.6	25.5
30°-40°	621.1	25.1
40°-50°	389.3	15.8
50°-60°	187.9	7.6
60°-70°	45.5	1.8
70°-80°	9.2	0.4
80°-90°	2.1	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°	1215.5	49.2
0°-40°	1836.6	74.3
0°-60°	2413.7	97.7
0°-90°	2470.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1614	1614	1614	1614	1614	
5°	1426	1475	1612	1677	1687	132
15°	1219	1315	1668	1729	1731	345
25°	1116	1174	1493	1513	1502	516
35°	1093	1048	1042	983	966	661
45°	738	743	394	377	367	564
55°	328	338	143	142	135	302
65°	77	76	21	18	16	88
75°	19	16	5	2	2	21
85°	6	4	1	0	0	6
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°	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1534.2	1524.5	1506.3	1528.3	1528.3	1515.9	1540.6	1525.7	1537.6	1556.2	1539.7
5°	1426.5	1418.4	1403.2	1426.5	1429.4	1418.1	1447.6	1436.6	1454.1	1477.0	1474.9
7.5°	1341.2	1331.1	1317.1	1341.2	1346.0	1338.3	1366.8	1361.6	1384.5	1414.2	1419.3
10°	1285.8	1275.1	1262.8	1284.9	1288.2	1283.2	1312.0	1309.0	1331.6	1365.9	1379.5
12.5°	1246.3	1237.4	1223.8	1247.2	1250.9	1243.7	1270.9	1269.6	1293.0	1329.0	1346.0
15°	1218.7	1208.1	1195.8	1215.8	1220.9	1212.8	1238.6	1236.1	1259.9	1295.4	1314.6
17.5°	1192.8	1183.0	1170.3	1189.0	1194.1	1185.6	1211.1	1206.8	1227.1	1261.1	1280.6
20°	1168.6	1158.1	1146.6	1165.7	1168.6	1159.0	1184.4	1178.9	1197.1	1228.5	1247.5
22.5°	1143.7	1132.6	1120.7	1139.4	1142.4	1132.6	1155.9	1149.6	1166.5	1195.0	1212.3
25°	1116.1	1105.9	1094.1	1111.4	1114.0	1103.4	1127.9	1119.9	1134.8	1159.8	1174.2
27.5°	1088.6	1078.8	1065.6	1083.5	1084.7	1074.5	1097.0	1086.0	1098.3	1121.2	1133.4
30°	1083.8	1072.8	1059.3	1073.7	1074.1	1061.0	1082.1	1069.0	1075.8	1092.8	1100.0
32.5°	1098.7	1087.6	1073.7	1085.5	1084.3	1069.9	1090.2	1074.1	1076.3	1085.2	1083.5
35°	1092.8	1079.7	1063.1	1075.8	1075.8	1058.4	1078.8	1059.8	1057.6	1058.9	1048.3
37.5°	1025.3	1015.2	999.4	1011.8	1010.5	997.3	1013.1	997.3	990.1	987.2	968.1
40°	926.1	913.8	901.9	915.1	916.3	902.4	922.7	905.0	902.8	894.3	871.9
42.5°	825.6	821.4	809.9	820.9	826.9	815.1	831.9	823.5	824.7	822.6	801.4
45°	737.9	730.7	722.1	734.8	738.7	732.7	749.7	744.6	749.7	760.3	742.9
47.5°	643.3	636.1	626.7	640.4	647.1	636.1	650.5	648.8	656.4	674.7	673.0
50°	529.2	524.1	522.4	524.1	528.4	523.2	533.5	533.9	539.0	564.0	565.6
52.5°	419.0	417.7	411.8	417.3	417.3	409.2	419.4	414.7	419.8	436.7	447.8
55°	327.8	326.5	322.7	327.8	322.3	319.3	322.3	317.6	313.8	326.9	338.4
57.5°	255.3	251.0	246.4	248.5	248.1	241.8	245.1	239.6	236.6	241.3	251.4
60°	181.9	180.7	176.4	178.5	180.2	175.5	179.0	176.4	171.3	175.2	175.5
62.5°	120.8	121.7	119.1	119.6	118.4	117.4	119.6	120.8	119.6	117.9	118.4
65°	76.7	76.3	75.9	76.3	77.2	75.5	76.7	77.6	76.3	76.3	75.9
67.5°	50.8	49.6	48.4	49.2	50.1	48.7	50.1	49.6	50.1	49.6	48.4
70°	34.3	34.0	33.5	34.0	34.0	33.1	34.0	33.5	34.0	33.5	32.2
72.5°	25.0	25.0	24.6	25.0	25.0	24.2	24.6	23.7	24.2	23.7	23.0
75°	18.7	18.7	18.2	18.7	18.2	17.8	18.2	17.8	17.0	17.0	16.1
77.5°	13.6	13.6	13.6	13.6	13.6	13.2	13.2	12.7	12.3	11.9	11.9
80°	10.1	9.8	9.8	9.8	9.8	9.3	9.8	9.3	8.9	8.4	8.1
82.5°	7.2	7.6	7.2	7.2	7.2	6.8	7.2	6.8	6.8	6.4	5.5
85°	5.5	5.5	5.5	5.5	5.5	5.1	5.1	5.1	4.6	4.6	4.3
87.5°	2.9	2.9	2.9	3.4	2.9	2.9	2.9	2.6	2.6	2.1	2.1
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1561.7	1563.9	1559.2	1566.4	1594.5	1572.0	1581.3	1584.2	1605.5	1609.3	1606.7
5°	1502.4	1511.8	1517.6	1533.8	1564.8	1548.7	1565.2	1575.8	1602.9	1611.8	1613.9
7.5°	1455.8	1475.2	1489.7	1515.9	1552.4	1540.1	1565.2	1582.5	1615.6	1627.1	1632.6
10°	1421.0	1450.7	1475.7	1511.8	1552.8	1544.9	1577.5	1602.0	1638.9	1652.5	1659.3
12.5°	1394.7	1430.8	1464.2	1510.1	1554.5	1550.7	1590.2	1618.2	1657.1	1670.7	1678.8
15°	1365.9	1407.4	1446.4	1497.7	1545.6	1544.9	1587.3	1616.9	1656.8	1668.2	1675.8
17.5°	1331.6	1376.0	1418.9	1474.4	1521.9	1522.8	1565.6	1594.8	1633.8	1643.2	1648.2
20°	1296.8	1340.9	1383.6	1440.9	1487.6	1488.8	1530.8	1557.9	1595.2	1602.9	1604.1
22.5°	1259.9	1301.0	1343.8	1400.6	1445.6	1446.4	1488.0	1513.5	1545.2	1549.0	1552.4
25°	1217.8	1258.2	1298.5	1354.8	1397.7	1400.2	1438.0	1460.5	1489.7	1492.6	1493.9
27.5°	1174.2	1207.2	1245.8	1294.2	1337.4	1335.7	1371.4	1396.8	1423.1	1421.4	1421.0
30°	1130.1	1157.6	1181.4	1228.0	1259.9	1261.1	1294.6	1306.9	1334.5	1331.1	1330.6
32.5°	1099.1	1106.3	1112.7	1136.5	1166.5	1155.9	1178.9	1194.1	1213.2	1212.0	1212.3
35°	1042.3	1029.1	1010.1	1013.5	1031.7	1015.2	1027.5	1027.0	1046.6	1041.9	1047.4
37.5°	945.2	907.9	865.5	841.3	844.6	824.0	819.7	829.9	836.7	823.5	828.1
40°	841.7	786.6	720.4	665.3	662.4	636.5	631.8	621.7	634.8	623.8	627.2
42.5°	765.4	692.4	605.6	538.5	524.1	502.5	489.8	488.0	491.8	484.3	482.2
45°	706.8	629.3	529.6	452.9	436.7	413.4	400.7	396.1	396.4	394.0	391.8
47.5°	638.2	560.1	459.2	380.8	362.6	340.5	327.8	324.8	326.5	323.1	320.6
50°	543.2	473.3	381.3	309.6	293.4	277.3	267.2	264.2	263.8	261.2	259.5
52.5°	441.0	383.0	303.2	243.4	228.9	213.3	206.1	202.3	202.7	200.1	197.7
55°	341.3	305.3	234.9	184.0	170.9	158.6	151.8	147.2	145.9	143.3	142.1
57.5°	254.0	229.8	176.0	132.8	125.1	113.2	106.4	100.9	100.1	98.8	98.3
60°	178.1	160.8	123.9	94.6	85.6	78.4	71.7	66.1	63.6	63.2	61.9
62.5°	115.3	104.7	81.4	63.2	56.4	51.3	44.6	40.7	39.0	37.4	37.7
65°	71.7	63.6	50.8	40.7	36.9	33.1	28.0	24.6	23.0	21.2	21.6
67.5°	44.6	39.8	32.2	26.3	23.7	20.8	17.0	14.4	13.2	11.9	11.0
70°	30.2	25.9	22.0	18.7	17.0	14.8	12.3	10.1	9.3	8.4	7.6
72.5°	21.2	19.1	16.1	14.0	12.7	11.0	9.3	8.1	7.2	6.4	5.5
75°	15.3	13.6	11.9	10.1	9.3	8.4	7.2	6.4	5.5	4.6	3.8
77.5°	11.0	9.8	8.4	7.6	7.2	6.0	5.1	4.6	4.3	3.4	2.6
80°	7.6	6.8	5.5	5.1	5.1	4.3	3.8	3.4	2.9	2.1	1.7
82.5°	5.1	4.6	4.3	3.8	3.4	2.9	2.9	2.1	1.7	1.2	0.9
85°	3.8	3.4	2.9	2.6	2.6	2.1	1.7	1.2	1.2	0.9	0.4
87.5°	2.1	2.1	1.7	1.2	1.2	0.9	0.9	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°	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1628.3	1629.6	1636.9	1631.4	1645.3	1655.4	1650.4	1661.8	1658.0	1657.1	1670.3
5°	1639.4	1642.4	1652.1	1647.0	1662.3	1673.3	1668.2	1681.0	1677.2	1676.2	1689.9
7.5°	1660.6	1663.5	1672.0	1667.8	1683.9	1693.7	1687.3	1701.3	1696.2	1695.8	1708.9
10°	1687.3	1691.6	1698.8	1694.5	1709.3	1717.9	1711.5	1725.1	1720.4	1718.2	1732.6
12.5°	1707.2	1710.2	1717.4	1714.0	1728.4	1734.8	1729.2	1742.4	1736.4	1734.8	1747.5
15°	1702.6	1705.5	1711.5	1708.5	1722.0	1728.0	1720.8	1735.2	1729.2	1725.9	1737.3
17.5°	1672.9	1674.6	1678.8	1675.8	1690.2	1694.0	1686.0	1700.4	1694.9	1689.0	1700.0
20°	1629.2	1628.3	1630.9	1629.6	1641.5	1643.6	1638.6	1649.1	1642.7	1639.4	1645.8
22.5°	1574.9	1574.1	1575.8	1572.4	1584.2	1585.5	1577.9	1590.6	1584.2	1577.9	1588.5
25°	1514.7	1510.1	1509.2	1510.4	1518.5	1519.8	1511.8	1521.1	1513.0	1508.0	1518.1
27.5°	1440.4	1434.6	1433.2	1434.6	1442.6	1436.6	1429.9	1436.6	1428.6	1423.9	1430.3
30°	1348.9	1340.4	1336.6	1334.0	1342.6	1340.4	1324.7	1332.3	1319.6	1312.9	1317.5
32.5°	1225.5	1220.9	1210.6	1204.8	1212.8	1196.7	1186.9	1186.9	1181.8	1170.3	1172.9
35°	1054.2	1046.9	1037.7	1032.5	1033.9	1012.2	996.1	999.4	982.6	979.5	980.8
37.5°	837.4	825.6	822.3	811.6	814.2	795.0	773.0	773.4	764.6	755.2	752.3
40°	629.3	627.2	623.8	614.9	618.3	597.5	589.1	589.4	583.5	576.7	580.1
42.5°	486.3	479.6	477.4	474.5	475.3	471.9	460.9	462.3	457.1	455.4	453.7
45°	395.2	388.0	383.0	385.4	385.4	381.6	377.4	379.9	377.4	374.1	375.8
47.5°	325.7	318.9	316.3	315.9	318.9	316.3	312.1	313.0	312.5	311.3	310.4
50°	260.0	258.3	256.2	254.8	256.2	255.3	251.4	253.6	254.8	250.6	251.9
52.5°	198.0	198.0	197.7	194.6	197.2	194.6	194.2	195.1	193.8	192.2	191.7
55°	145.0	143.8	141.6	141.2	142.1	141.2	140.4	140.7	141.6	137.4	137.4
57.5°	99.2	98.3	97.1	97.1	98.8	96.6	95.4	97.1	95.4	93.7	93.7
60°	63.6	63.2	61.9	61.9	61.9	61.5	60.2	60.6	61.5	59.0	59.4
62.5°	38.1	36.9	36.4	36.0	36.4	36.0	36.0	35.7	35.2	35.2	34.0
65°	20.8	19.9	19.1	19.5	19.5	19.1	19.1	19.1	18.2	17.8	17.4
67.5°	10.6	9.8	9.8	9.3	9.3	9.3	9.3	8.9	8.9	8.9	8.4
70°	6.8	6.4	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.5	5.1
72.5°	4.6	4.3	3.8	3.8	3.8	3.4	3.4	3.4	3.4	2.9	2.9
75°	3.4	2.9	2.6	2.6	2.6	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.2	1.2	0.9
80°	1.2	1.2	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
82.5°	0.9	0.9	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: P245445

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1665.7	1662.3	1664.4	1680.1	1673.3	1671.2	1653.4	1669.0
5°	1685.6	1683.0	1683.0	1700.9	1692.8	1691.1	1673.7	1687.3
7.5°	1704.3	1701.7	1702.1	1720.4	1714.0	1711.5	1694.0	1707.6
10°	1728.4	1726.8	1727.1	1744.5	1737.8	1735.2	1717.4	1731.4
12.5°	1742.8	1740.3	1740.3	1758.9	1751.3	1747.5	1730.6	1744.1
15°	1731.8	1728.0	1728.0	1746.7	1738.1	1732.6	1717.9	1730.6
17.5°	1694.0	1690.2	1690.2	1706.4	1700.0	1692.0	1676.7	1688.5
20°	1641.5	1636.9	1635.5	1654.2	1645.3	1638.1	1624.5	1636.0
22.5°	1582.1	1580.0	1576.2	1594.8	1586.8	1579.2	1564.8	1573.6
25°	1510.9	1507.5	1503.7	1521.9	1513.8	1506.3	1494.8	1502.0
27.5°	1422.2	1422.7	1420.5	1434.9	1427.0	1422.7	1408.7	1420.5
30°	1315.0	1310.3	1308.6	1325.6	1317.9	1312.4	1295.0	1306.5
32.5°	1175.1	1168.2	1159.3	1178.4	1165.3	1160.7	1145.8	1162.4
35°	971.6	969.4	961.3	977.4	970.2	961.8	952.4	966.4
37.5°	750.9	752.7	751.8	756.1	751.8	746.3	736.2	731.0
40°	573.3	569.0	565.6	573.3	564.4	564.4	558.4	564.9
42.5°	449.4	447.8	452.0	453.7	448.6	447.8	447.0	446.5
45°	371.0	371.0	371.9	373.6	371.9	371.0	368.6	366.8
47.5°	305.8	307.5	305.8	311.3	308.2	307.5	302.4	304.4
50°	247.6	245.5	247.6	249.3	249.8	247.3	244.7	245.9
52.5°	192.2	188.7	187.9	190.4	188.7	188.7	187.0	186.5
55°	135.2	136.6	134.4	136.6	135.7	134.4	133.2	134.9
57.5°	91.6	92.0	91.1	92.5	90.3	90.8	90.3	89.9
60°	59.4	57.7	57.7	59.0	56.8	56.8	56.4	56.4
62.5°	34.0	33.5	33.5	33.1	32.6	32.6	32.6	31.8
65°	17.4	17.0	16.5	16.5	16.5	16.5	16.1	16.1
67.5°	8.4	8.1	8.1	8.4	8.1	8.1	8.1	8.1
70°	5.1	5.1	4.6	5.1	4.6	4.6	4.6	4.6
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)