

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: P244215

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30950 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

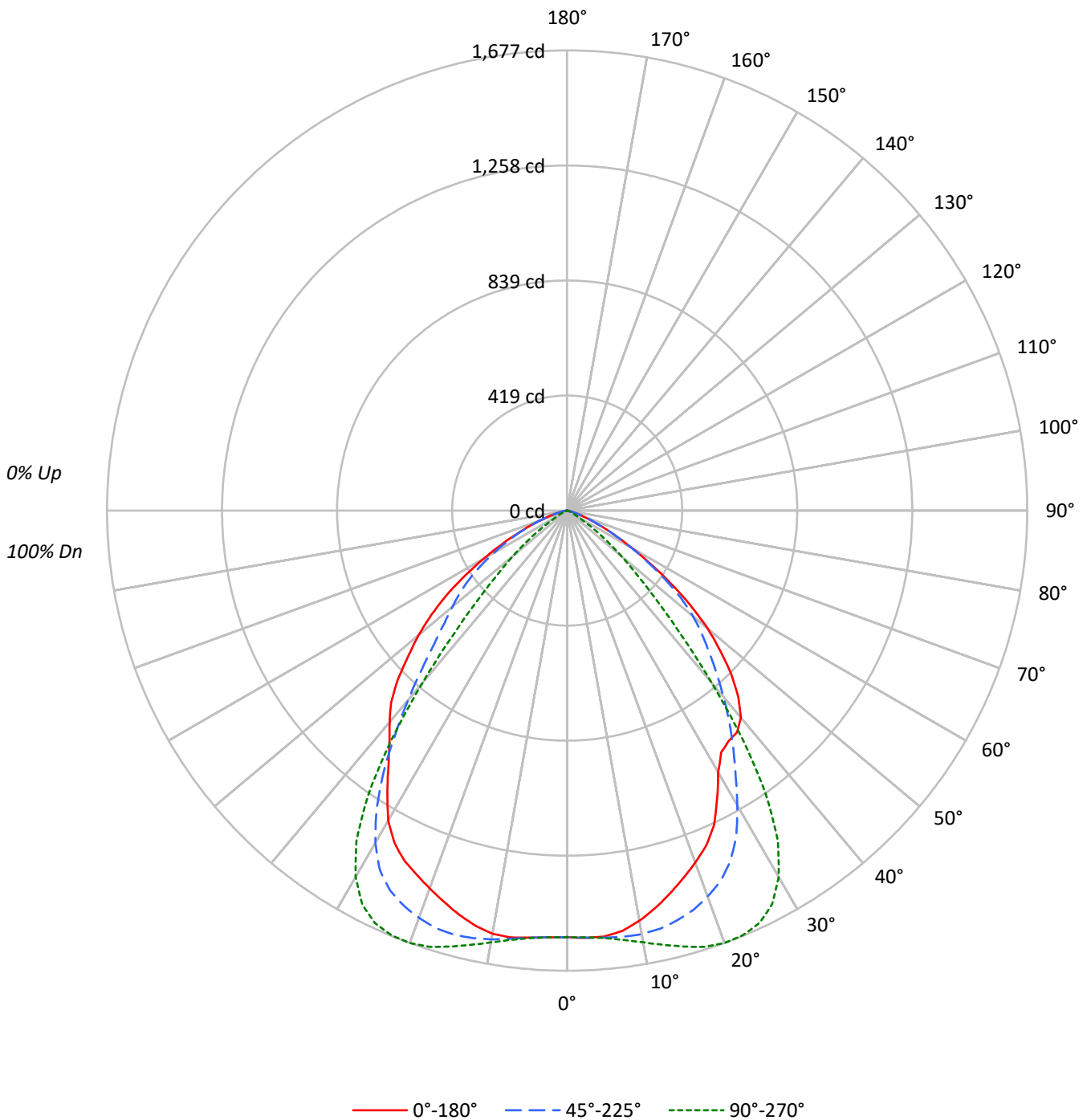
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47941	47941	47941
5°	48226	48406	48357
10°	47519	50027	49044
15°	46130	52506	48659
20°	44793	55028	48068
25°	43071	56436	47845
30°	39199	54891	46428
35°	38615	47560	42715
40°	39662	32988	40495
45°	36924	19938	38075
50°	32027	12310	33926
55°	24580	6435	28795
60°	16744	2596	21733
65°	10419	1328	14994
70°	5653	820	9151
75°	2955	393	5409
80°	1314	444	2930
85°	885	283	2618



TEST NUMBER: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	5.0
10°-20°	442.9	14.8
20°-30°	675.7	22.5
30°-40°	705.1	23.5
40°-50°	529.6	17.7
50°-60°	325.9	10.9
60°-70°	132.6	4.4
70°-80°	31.3	1.0
80°-90°	4.3	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°	1268.2	42.3
0°-40°	1973.3	65.8
0°-60°	2828.8	94.4
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1555	1555	1555	1555	1555	
5°	1558	1562	1564	1562	1562	147
15°	1445	1546	1645	1599	1524	407
25°	1266	1408	1659	1528	1406	576
35°	1026	1055	1263	1168	1135	648
45°	847	733	457	682	873	646
55°	457	434	120	434	536	411
65°	143	144	18	194	206	149
75°	25	25	3	44	45	30
85°	2	2	1	6	7	3
90°	0	0	0	0	0	



TEST NUMBER: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7
2.5°	1558.9	1556.4	1558.9	1558.9	1559.7	1558.0	1558.9	1559.7	1558.0	1558.0	1558.0
5°	1558.0	1556.4	1558.0	1557.2	1558.9	1558.9	1560.5	1560.5	1562.2	1562.2	1564.7
7.5°	1544.8	1541.6	1544.8	1547.3	1549.0	1552.3	1556.4	1559.7	1563.0	1566.3	1570.4
10°	1517.6	1517.6	1520.1	1525.0	1530.0	1535.8	1543.2	1551.4	1559.7	1567.1	1574.5
12.5°	1483.8	1481.3	1486.2	1492.8	1500.3	1509.4	1520.9	1533.3	1546.5	1561.3	1572.9
15°	1445.0	1442.5	1448.3	1454.9	1464.0	1477.2	1491.2	1507.7	1526.7	1546.5	1565.5
17.5°	1405.4	1404.5	1410.3	1419.4	1426.8	1440.9	1459.0	1478.8	1500.3	1526.7	1551.4
20°	1365.0	1364.1	1369.9	1377.3	1387.2	1400.4	1418.6	1441.7	1467.3	1497.0	1525.9
22.5°	1322.9	1323.7	1328.6	1336.9	1345.1	1359.2	1378.1	1401.3	1429.3	1461.5	1493.7
25°	1265.9	1261.8	1268.4	1276.7	1290.7	1302.2	1320.4	1345.1	1374.0	1407.9	1445.8
27.5°	1183.4	1182.6	1188.4	1195.8	1208.1	1222.2	1242.0	1267.6	1298.1	1335.2	1372.4
30°	1100.9	1102.5	1105.0	1112.4	1120.7	1134.7	1154.5	1176.0	1204.8	1240.3	1279.9
32.5°	1044.7	1044.7	1048.1	1053.0	1058.8	1066.2	1080.2	1095.9	1118.2	1143.0	1171.8
35°	1025.8	1022.5	1025.8	1026.6	1027.4	1029.1	1031.5	1036.5	1043.9	1054.7	1065.4
37.5°	1017.5	1015.0	1015.0	1011.7	1007.6	1002.7	996.1	988.6	980.4	969.6	961.4
40°	985.3	983.7	982.0	978.7	969.6	959.8	949.0	931.7	912.7	886.3	859.9
42.5°	923.4	921.8	921.0	914.4	906.1	894.6	882.2	864.0	840.1	806.3	768.3
45°	846.7	843.4	840.9	835.1	829.4	819.5	807.9	791.4	767.5	732.8	687.4
47.5°	757.6	755.9	755.1	752.6	746.8	741.1	733.6	720.4	699.0	666.0	618.9
50°	667.6	664.3	666.0	665.2	662.7	658.5	653.6	644.5	628.0	598.3	555.4
52.5°	564.5	564.5	563.6	566.1	566.9	566.1	566.9	557.0	543.0	520.7	484.4
55°	457.2	457.2	459.7	463.0	466.3	467.1	466.3	462.1	452.2	434.1	401.9
57.5°	356.5	354.9	359.8	364.8	368.1	371.4	368.9	365.6	359.8	344.9	320.2
60°	271.5	271.5	274.8	278.1	281.4	284.7	283.9	283.1	278.1	268.2	248.4
62.5°	199.7	200.5	200.5	203.0	206.3	209.6	212.1	209.6	207.1	200.5	187.3
65°	142.8	141.9	142.8	145.2	147.7	151.0	152.7	151.8	149.4	144.4	134.5
67.5°	95.7	94.9	98.2	99.0	100.7	104.0	103.2	104.0	103.2	99.0	90.8
70°	62.7	61.1	62.7	61.9	64.4	65.2	66.8	67.7	66.8	64.4	61.9
72.5°	38.8	38.0	38.8	39.6	40.4	41.3	42.9	42.9	42.1	40.4	37.1
75°	24.8	22.3	23.1	21.5	23.1	23.1	24.8	25.6	24.8	24.8	23.1
77.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	15.7	16.5	14.9	14.0
80°	7.4	7.4	8.3	8.3	8.3	9.1	8.3	8.3	8.3	9.1	6.6
82.5°	5.8	4.9	4.9	4.9	5.8	4.9	4.9	4.9	4.9	4.9	4.9
85°	2.5	3.3	2.5	1.7	2.5	2.5	3.3	2.5	2.5	2.5	3.3
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.7	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: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7
2.5°	1558.9	1557.2	1557.2	1556.4	1558.0	1556.4	1557.2	1556.4	1556.4	1558.0	1556.4
5°	1564.7	1565.5	1563.8	1563.0	1565.5	1565.5	1565.5	1563.8	1563.8	1564.7	1563.8
7.5°	1572.9	1574.5	1575.4	1576.2	1577.9	1578.7	1578.7	1577.9	1577.0	1579.5	1576.2
10°	1582.0	1584.5	1589.4	1591.9	1596.0	1596.0	1597.7	1597.7	1596.0	1597.7	1596.8
12.5°	1578.7	1593.5	1601.8	1607.6	1613.3	1618.3	1619.9	1620.8	1619.9	1623.2	1619.9
15°	1584.5	1596.8	1610.0	1619.9	1630.7	1636.4	1638.1	1644.7	1646.3	1647.2	1642.2
17.5°	1575.4	1597.7	1611.7	1626.5	1642.2	1653.0	1662.8	1667.0	1667.8	1669.4	1662.8
20°	1554.7	1579.5	1601.0	1622.4	1640.6	1657.1	1665.3	1676.9	1673.6	1680.2	1671.1
22.5°	1526.7	1554.7	1582.0	1610.0	1629.0	1648.8	1666.2	1674.4	1678.5	1678.5	1668.6
25°	1482.1	1515.1	1544.8	1573.7	1602.6	1626.5	1646.3	1658.7	1661.2	1660.4	1648.8
27.5°	1412.8	1448.3	1483.0	1516.0	1551.4	1579.5	1602.6	1617.5	1621.6	1621.6	1609.2
30°	1317.1	1355.0	1388.9	1428.5	1464.8	1496.2	1528.3	1541.6	1549.0	1549.0	1534.9
32.5°	1203.2	1235.4	1266.7	1305.5	1345.1	1380.6	1411.2	1429.3	1438.4	1437.6	1425.2
35°	1079.4	1095.1	1119.0	1147.9	1183.4	1216.4	1246.1	1263.4	1279.1	1278.3	1266.7
37.5°	955.6	951.5	954.0	964.7	987.0	1010.1	1033.2	1049.7	1062.9	1068.7	1066.2
40°	834.3	812.9	792.2	784.8	786.4	794.7	807.1	819.5	834.3	841.8	845.0
42.5°	725.4	689.1	652.8	625.5	609.8	604.9	610.7	614.8	623.9	634.6	645.3
45°	637.9	589.2	541.4	499.3	472.9	457.2	453.9	457.2	462.1	472.9	486.9
47.5°	566.1	509.2	455.5	408.5	369.7	349.1	343.3	341.7	346.6	356.5	375.5
50°	502.6	445.6	386.2	331.7	291.3	268.2	260.0	256.6	262.4	269.8	287.2
52.5°	433.2	377.1	316.1	263.2	221.2	197.2	188.2	183.2	186.5	196.4	213.7
55°	358.1	306.2	250.9	196.4	156.0	133.7	123.0	119.7	123.0	133.7	151.0
57.5°	283.1	239.3	193.1	141.9	105.6	83.4	72.6	69.3	78.4	82.5	100.7
60°	221.2	185.7	146.1	104.0	72.6	55.3	44.6	42.1	46.2	53.6	68.5
62.5°	165.9	143.6	112.2	74.3	53.6	35.5	29.7	27.2	29.7	35.5	47.0
65°	120.5	103.2	78.4	54.5	36.3	26.4	19.8	18.2	20.6	24.8	34.7
67.5°	82.5	69.3	54.5	38.0	24.8	16.5	14.0	14.0	14.9	18.2	25.6
70°	53.6	45.4	34.7	24.8	16.5	12.4	10.7	9.1	10.7	13.2	17.3
72.5°	33.8	28.9	22.3	17.3	12.4	9.1	7.4	6.6	8.3	9.9	13.2
75°	20.6	15.7	11.6	9.1	6.6	6.6	6.6	3.3	4.1	6.6	8.3
77.5°	12.4	10.7	9.1	7.4	5.8	3.3	3.3	3.3	4.1	4.9	7.4
80°	6.6	5.8	4.1	4.1	3.3	2.5	3.3	2.5	1.7	4.1	4.9
82.5°	4.1	3.3	3.3	3.3	4.1	1.7	2.5	1.7	2.5	3.3	2.5
85°	2.5	2.5	2.5	1.7	4.1	1.7	1.7	0.8	0.8	1.7	1.7
87.5°	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7	1554.7
2.5°	1557.2	1556.4	1557.2	1556.4	1556.4	1556.4	1557.2	1557.2	1556.4	1556.4	1558.0
5°	1563.8	1563.8	1563.8	1563.0	1562.2	1562.2	1563.8	1563.8	1561.3	1563.8	1563.8
7.5°	1577.9	1575.4	1577.9	1574.5	1572.9	1573.7	1574.5	1572.9	1571.3	1572.1	1572.1
10°	1596.0	1593.5	1593.5	1591.1	1588.6	1586.9	1585.3	1581.1	1577.0	1576.2	1572.9
12.5°	1617.5	1613.3	1610.9	1605.9	1601.8	1596.0	1591.1	1584.5	1576.2	1570.4	1564.7
15°	1638.9	1632.3	1626.5	1618.3	1609.2	1599.3	1588.6	1577.9	1564.7	1553.1	1543.2
17.5°	1656.2	1647.2	1636.4	1623.2	1610.0	1595.2	1579.5	1563.8	1544.8	1530.0	1518.4
20°	1662.0	1648.8	1634.8	1617.5	1600.1	1579.5	1559.7	1539.1	1517.6	1501.9	1488.7
22.5°	1654.6	1638.9	1621.6	1603.4	1580.3	1558.0	1534.9	1511.0	1492.0	1470.6	1458.2
25°	1634.0	1615.0	1596.0	1574.5	1552.3	1527.5	1502.8	1478.0	1454.9	1443.3	1427.7
27.5°	1591.9	1571.3	1550.6	1528.3	1502.8	1478.0	1452.4	1428.5	1408.7	1393.0	1383.9
30°	1517.6	1493.7	1469.7	1445.8	1423.5	1397.9	1374.0	1354.2	1334.4	1322.0	1313.0
32.5°	1403.7	1382.3	1358.3	1335.2	1314.6	1293.1	1273.3	1256.0	1242.0	1233.7	1227.1
35°	1250.2	1228.8	1210.6	1194.1	1176.8	1167.7	1155.3	1145.4	1139.6	1136.4	1135.5
37.5°	1057.1	1044.7	1039.0	1035.7	1032.4	1029.9	1031.5	1035.7	1039.0	1044.7	1051.3
40°	850.8	861.5	864.9	876.4	887.1	901.2	916.8	935.0	949.8	968.8	982.0
42.5°	662.7	682.5	705.6	730.3	756.7	782.3	813.7	842.6	869.0	892.9	913.5
45°	509.2	539.7	574.4	609.8	645.3	682.5	720.4	755.9	787.3	812.9	834.3
47.5°	396.9	430.8	475.3	519.1	562.0	605.7	647.8	684.9	711.4	736.1	755.1
50°	314.4	353.2	401.9	452.2	499.3	545.5	590.0	624.7	651.1	670.9	684.9
52.5°	243.4	289.7	339.2	392.0	442.3	492.7	533.9	566.1	587.6	604.9	615.6
55°	181.5	226.9	279.8	334.2	385.4	434.1	472.9	500.9	519.9	529.8	535.6
57.5°	131.2	172.5	225.3	279.8	326.0	372.2	403.5	429.1	439.8	445.6	448.1
60°	95.7	133.7	180.7	227.8	271.5	308.6	335.9	353.2	361.5	364.8	363.9
62.5°	70.1	103.2	143.6	183.2	218.7	249.2	270.7	282.2	286.4	288.0	285.5
65°	53.6	79.2	113.9	144.4	171.7	193.9	209.6	217.0	219.5	218.7	217.0
67.5°	39.6	59.4	85.0	108.1	127.9	145.2	153.5	160.1	161.7	159.3	156.8
70°	28.1	43.7	61.9	77.6	92.4	102.3	111.4	112.2	112.2	111.4	109.8
72.5°	19.8	30.5	42.1	52.8	61.9	69.3	72.6	75.1	74.3	73.4	71.8
75°	13.2	19.0	30.5	33.0	41.3	43.7	47.0	47.0	47.9	45.4	45.4
77.5°	8.3	13.2	18.2	21.5	24.8	28.1	29.7	29.7	30.5	29.7	29.7
80°	4.9	8.3	9.9	14.9	14.9	17.3	18.2	19.0	17.3	19.8	17.3
82.5°	3.3	4.9	7.4	7.4	9.1	10.7	10.7	11.6	11.6	10.7	10.7
85°	2.5	3.3	4.1	4.9	4.9	5.8	4.9	4.9	5.8	6.6	5.8
87.5°	0.8	1.7	0.8	1.7	1.7	3.3	2.5	2.5	2.5	3.3	3.3
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: P244215

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1554.7	1554.7	1554.7	1554.7
2.5°	1556.4	1557.2	1556.4	1556.4
5°	1563.8	1563.0	1563.8	1562.2
7.5°	1569.6	1569.6	1568.8	1568.8
10°	1569.6	1566.3	1566.3	1566.3
12.5°	1557.2	1553.1	1550.6	1549.0
15°	1535.8	1528.3	1525.0	1524.2
17.5°	1507.7	1501.1	1497.0	1494.5
20°	1475.5	1468.9	1464.0	1464.8
22.5°	1447.5	1440.0	1436.7	1435.1
25°	1419.4	1410.3	1407.9	1406.2
27.5°	1374.0	1369.1	1366.6	1364.1
30°	1304.7	1302.2	1298.1	1303.9
32.5°	1224.7	1220.5	1217.2	1219.7
35°	1136.4	1133.9	1136.4	1134.7
37.5°	1055.5	1057.9	1061.3	1062.9
40°	991.9	1001.0	1004.3	1006.0
42.5°	928.4	939.1	945.7	949.8
45°	850.0	860.7	868.1	873.1
47.5°	769.1	778.2	785.6	784.8
50°	695.7	700.6	703.9	707.2
52.5°	621.4	621.4	622.2	622.2
55°	537.2	535.6	534.7	535.6
57.5°	444.8	443.2	442.3	439.8
60°	360.6	355.7	352.4	352.4
62.5°	282.2	276.5	274.0	273.2
65°	212.1	211.3	206.3	205.5
67.5°	153.5	150.2	146.9	147.7
70°	108.1	103.2	103.2	101.5
72.5°	70.1	67.7	66.8	66.8
75°	43.7	43.7	42.1	45.4
77.5°	28.9	28.9	28.1	28.9
80°	17.3	17.3	17.3	16.5
82.5°	10.7	11.6	10.7	10.7
85°	5.8	6.6	4.9	7.4
87.5°	3.3	4.1	3.3	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)