

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: P244209

Luminaire Tested: **LSR8B30D010 EC8B30940 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244209
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 EC8B30940 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

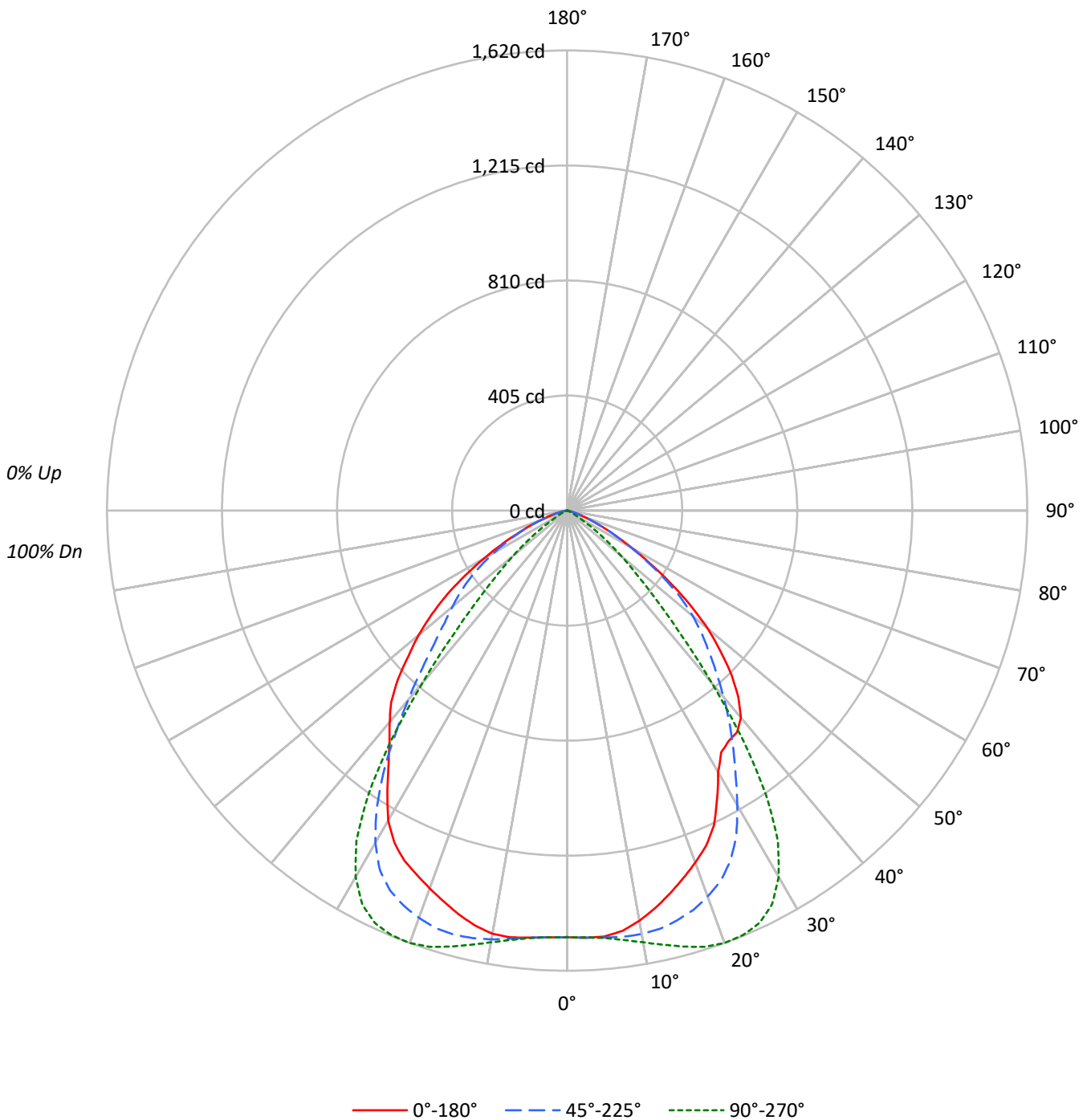
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46310	46310	46310
5°	46586	46759	46710
10°	45903	48324	47375
15°	44560	50718	47002
20°	43267	53154	46430
25°	41605	54517	46215
30°	37864	53022	44847
35°	37302	45941	41262
40°	38314	31865	39115
45°	35668	19258	36780
50°	30938	11892	32775
55°	23741	6215	27811
60°	16177	2504	20993
65°	10062	1277	14484
70°	5464	793	8845
75°	2848	381	5218
80°	1279	426	2824
85°	849	283	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	5.0
10°-20°	427.9	14.8
20°-30°	652.7	22.5
30°-40°	681.1	23.5
40°-50°	511.6	17.7
50°-60°	314.8	10.9
60°-70°	128.1	4.4
70°-80°	30.2	1.0
80°-90°	4.2	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°	1225.0	42.3
0°-40°	1906.1	65.8
0°-60°	2732.5	94.4
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1502	1502	1502	1502	1502	
5°	1505	1509	1511	1509	1509	142
15°	1396	1494	1589	1545	1472	393
25°	1223	1360	1602	1476	1358	556
35°	991	1019	1220	1128	1096	626
45°	818	708	442	659	843	624
55°	442	419	116	419	517	397
65°	138	140	18	187	198	144
75°	24	24	3	42	44	29
85°	2	2	1	6	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1505.8	1503.4	1505.8	1505.8	1506.6	1505.0	1505.8	1506.6	1505.0	1505.0	1505.0
5°	1505.0	1503.4	1505.0	1504.2	1505.8	1505.8	1507.4	1507.4	1509.0	1509.0	1511.4
7.5°	1492.3	1489.1	1492.3	1494.7	1496.2	1499.4	1503.4	1506.6	1509.8	1513.0	1517.0
10°	1466.0	1466.0	1468.4	1473.1	1477.9	1483.5	1490.7	1498.6	1506.6	1513.8	1521.0
12.5°	1433.3	1430.9	1435.7	1442.0	1449.2	1458.0	1469.2	1481.1	1493.9	1508.2	1519.4
15°	1395.8	1393.4	1399.0	1405.4	1414.1	1426.9	1440.5	1456.4	1474.7	1493.9	1512.2
17.5°	1357.5	1356.7	1362.3	1371.1	1378.3	1391.8	1409.4	1428.5	1449.2	1474.7	1498.6
20°	1318.5	1317.7	1323.3	1330.5	1340.0	1352.8	1370.3	1392.6	1417.3	1446.0	1473.9
22.5°	1277.8	1278.6	1283.4	1291.4	1299.4	1312.9	1331.2	1353.6	1380.7	1411.7	1442.8
25°	1222.8	1218.8	1225.2	1233.2	1246.7	1257.9	1275.4	1299.4	1327.3	1359.9	1396.6
27.5°	1143.1	1142.3	1147.9	1155.1	1167.0	1180.6	1199.7	1224.4	1253.9	1289.8	1325.7
30°	1063.4	1065.0	1067.4	1074.6	1082.5	1096.1	1115.2	1135.9	1163.8	1198.1	1236.4
32.5°	1009.2	1009.2	1012.4	1017.2	1022.7	1029.9	1043.5	1058.6	1080.1	1104.1	1132.0
35°	990.9	987.7	990.9	991.7	992.5	994.1	996.4	1001.2	1008.4	1018.8	1029.1
37.5°	982.9	980.5	980.5	977.3	973.3	968.5	962.2	955.0	947.0	936.6	928.7
40°	951.8	950.2	948.6	945.4	936.6	927.1	916.7	900.0	881.6	856.1	830.6
42.5°	892.0	890.4	889.6	883.2	875.3	864.1	852.2	834.6	811.5	778.8	742.1
45°	817.9	814.7	812.3	806.7	801.1	791.6	780.4	764.5	741.3	707.9	664.0
47.5°	731.8	730.2	729.4	727.0	721.4	715.8	708.7	695.9	675.2	643.3	597.9
50°	644.9	641.7	643.3	642.5	640.1	636.1	631.3	622.6	606.6	577.9	536.5
52.5°	545.2	545.2	544.5	546.8	547.6	546.8	547.6	538.1	524.5	503.0	467.9
55°	441.6	441.6	444.0	447.2	450.4	451.2	450.4	446.4	436.8	419.3	388.2
57.5°	344.4	342.8	347.6	352.3	355.5	358.7	356.3	353.1	347.6	333.2	309.3
60°	262.3	262.3	265.4	268.6	271.8	275.0	274.2	273.4	268.6	259.1	239.9
62.5°	192.9	193.7	193.7	196.1	199.3	202.5	204.9	202.5	200.1	193.7	180.9
65°	137.9	137.1	137.9	140.3	142.7	145.9	147.5	146.7	144.3	139.5	129.9
67.5°	92.5	91.7	94.9	95.7	97.3	100.5	99.7	100.5	99.7	95.7	87.7
70°	60.6	59.0	60.6	59.8	62.2	63.0	64.6	65.4	64.6	62.2	59.8
72.5°	37.5	36.7	37.5	38.3	39.1	39.8	41.4	41.4	40.6	39.1	35.9
75°	23.9	21.5	22.3	20.7	22.3	22.3	23.9	24.7	23.9	23.9	22.3
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	15.2	15.9	14.4	13.6
80°	7.2	7.2	8.0	8.0	8.0	8.8	8.0	8.0	8.0	8.8	6.4
82.5°	5.6	4.8	4.8	4.8	5.6	4.8	4.8	4.8	4.8	4.8	4.8
85°	2.4	3.2	2.4	1.6	2.4	2.4	3.2	2.4	2.4	2.4	3.2
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.6	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1505.8	1504.2	1504.2	1503.4	1505.0	1503.4	1504.2	1503.4	1503.4	1505.0	1503.4
5°	1511.4	1512.2	1510.6	1509.8	1512.2	1512.2	1512.2	1510.6	1510.6	1511.4	1510.6
7.5°	1519.4	1521.0	1521.8	1522.6	1524.2	1525.0	1525.0	1524.2	1523.4	1525.8	1522.6
10°	1528.1	1530.5	1535.3	1537.7	1541.7	1541.7	1543.3	1543.3	1541.7	1543.3	1542.5
12.5°	1525.0	1539.3	1547.3	1552.8	1558.4	1563.2	1564.8	1565.6	1564.8	1568.0	1564.8
15°	1530.5	1542.5	1555.2	1564.8	1575.2	1580.7	1582.3	1588.7	1590.3	1591.1	1586.3
17.5°	1521.8	1543.3	1556.8	1571.2	1586.3	1596.7	1606.3	1610.3	1611.1	1612.6	1606.3
20°	1501.8	1525.8	1546.5	1567.2	1584.7	1600.7	1608.7	1619.8	1616.6	1623.0	1614.2
22.5°	1474.7	1501.8	1528.1	1555.2	1573.6	1592.7	1609.5	1617.4	1621.4	1621.4	1611.8
25°	1431.7	1463.6	1492.3	1520.2	1548.1	1571.2	1590.3	1602.3	1604.7	1603.9	1592.7
27.5°	1364.7	1399.0	1432.5	1464.4	1498.6	1525.8	1548.1	1562.4	1566.4	1566.4	1554.4
30°	1272.3	1308.9	1341.6	1379.9	1414.9	1445.2	1476.3	1489.1	1496.2	1496.2	1482.7
32.5°	1162.2	1193.3	1223.6	1261.1	1299.4	1333.6	1363.1	1380.7	1389.4	1388.6	1376.7
35°	1042.7	1057.8	1080.9	1108.8	1143.1	1175.0	1203.7	1220.4	1235.6	1234.8	1223.6
37.5°	923.1	919.1	921.5	931.9	953.4	975.7	998.0	1014.0	1026.7	1032.3	1029.9
40°	805.9	785.2	765.3	758.1	759.7	767.7	779.6	791.6	805.9	813.1	816.3
42.5°	700.7	665.6	630.5	604.2	589.1	584.3	589.9	593.9	602.6	613.0	623.4
45°	616.2	569.2	522.9	482.3	456.8	441.6	438.4	441.6	446.4	456.8	470.3
47.5°	546.8	491.8	440.0	394.6	357.1	337.2	331.6	330.0	334.8	344.4	362.7
50°	485.5	430.5	373.1	320.4	281.4	259.1	251.1	247.9	253.5	260.7	277.4
52.5°	418.5	364.3	305.3	254.3	213.6	190.5	181.7	177.0	180.1	189.7	206.5
55°	346.0	295.7	242.3	189.7	150.7	129.1	118.8	115.6	118.8	129.1	145.9
57.5°	273.4	231.2	186.5	137.1	102.0	80.5	70.1	67.0	75.7	79.7	97.3
60°	213.6	179.4	141.1	100.5	70.1	53.4	43.0	40.6	44.6	51.8	66.2
62.5°	160.2	138.7	108.4	71.7	51.8	34.3	28.7	26.3	28.7	34.3	45.4
65°	116.4	99.7	75.7	52.6	35.1	25.5	19.1	17.5	19.9	23.9	33.5
67.5°	79.7	67.0	52.6	36.7	23.9	15.9	13.6	13.6	14.4	17.5	24.7
70°	51.8	43.8	33.5	23.9	15.9	12.0	10.4	8.8	10.4	12.8	16.7
72.5°	32.7	27.9	21.5	16.7	12.0	8.8	7.2	6.4	8.0	9.6	12.8
75°	19.9	15.2	11.2	8.8	6.4	6.4	6.4	3.2	4.0	6.4	8.0
77.5°	12.0	10.4	8.8	7.2	5.6	3.2	3.2	3.2	4.0	4.8	7.2
80°	6.4	5.6	4.0	4.0	3.2	2.4	3.2	2.4	1.6	4.0	4.8
82.5°	4.0	3.2	3.2	3.2	4.0	1.6	2.4	1.6	2.4	3.2	2.4
85°	2.4	2.4	2.4	1.6	4.0	1.6	1.6	0.8	0.8	1.6	1.6
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1504.2	1503.4	1504.2	1503.4	1503.4	1503.4	1504.2	1504.2	1503.4	1503.4	1505.0
5°	1510.6	1510.6	1510.6	1509.8	1509.0	1509.0	1510.6	1510.6	1508.2	1510.6	1510.6
7.5°	1524.2	1521.8	1524.2	1521.0	1519.4	1520.2	1521.0	1519.4	1517.8	1518.6	1518.6
10°	1541.7	1539.3	1539.3	1536.9	1534.5	1532.9	1531.3	1527.3	1523.4	1522.6	1519.4
12.5°	1562.4	1558.4	1556.0	1551.2	1547.3	1541.7	1536.9	1530.5	1522.6	1517.0	1511.4
15°	1583.1	1576.8	1571.2	1563.2	1554.4	1544.9	1534.5	1524.2	1511.4	1500.2	1490.7
17.5°	1599.9	1591.1	1580.7	1568.0	1555.2	1540.9	1525.8	1510.6	1492.3	1477.9	1466.8
20°	1605.5	1592.7	1579.2	1562.4	1545.7	1525.8	1506.6	1486.7	1466.0	1450.8	1438.1
22.5°	1598.3	1583.1	1566.4	1548.9	1526.5	1505.0	1482.7	1459.6	1441.2	1420.5	1408.6
25°	1578.4	1560.0	1541.7	1521.0	1499.4	1475.5	1451.6	1427.7	1405.4	1394.2	1379.1
27.5°	1537.7	1517.8	1497.8	1476.3	1451.6	1427.7	1403.0	1379.9	1360.7	1345.6	1336.8
30°	1466.0	1442.8	1419.7	1396.6	1375.1	1350.4	1327.3	1308.1	1289.0	1277.0	1268.3
32.5°	1355.9	1335.2	1312.1	1289.8	1269.9	1249.1	1230.0	1213.3	1199.7	1191.7	1185.4
35°	1207.7	1187.0	1169.4	1153.5	1136.7	1128.0	1116.0	1106.4	1100.9	1097.7	1096.9
37.5°	1021.1	1009.2	1003.6	1000.4	997.2	994.9	996.4	1000.4	1003.6	1009.2	1015.6
40°	821.9	832.2	835.4	846.6	856.9	870.5	885.6	903.2	917.5	935.8	948.6
42.5°	640.1	659.2	681.6	705.5	731.0	755.7	786.0	813.9	839.4	862.5	882.4
45°	491.8	521.3	554.8	589.1	623.4	659.2	695.9	730.2	760.5	785.2	805.9
47.5°	383.4	416.1	459.2	501.4	542.9	585.1	625.8	661.6	687.1	711.1	729.4
50°	303.7	341.2	388.2	436.8	482.3	526.9	570.0	603.4	629.0	648.1	661.6
52.5°	235.2	279.8	327.6	378.6	427.3	475.9	515.8	546.8	567.6	584.3	594.7
55°	175.4	219.2	270.2	322.8	372.3	419.3	456.8	483.9	502.2	511.8	517.3
57.5°	126.7	166.6	217.6	270.2	314.9	359.5	389.8	414.5	424.9	430.5	432.9
60°	92.5	129.1	174.6	220.0	262.3	298.1	324.4	341.2	349.2	352.3	351.5
62.5°	67.8	99.7	138.7	177.0	211.2	240.7	261.5	272.6	276.6	278.2	275.8
65°	51.8	76.5	110.0	139.5	165.8	187.3	202.5	209.7	212.0	211.2	209.7
67.5°	38.3	57.4	82.1	104.4	123.6	140.3	148.3	154.7	156.2	153.9	151.5
70°	27.1	42.2	59.8	74.9	89.3	98.9	107.6	108.4	108.4	107.6	106.0
72.5°	19.1	29.5	40.6	51.0	59.8	67.0	70.1	72.5	71.7	70.9	69.4
75°	12.8	18.3	29.5	31.9	39.8	42.2	45.4	45.4	46.2	43.8	43.8
77.5°	8.0	12.8	17.5	20.7	23.9	27.1	28.7	28.7	29.5	28.7	28.7
80°	4.8	8.0	9.6	14.4	14.4	16.7	17.5	18.3	16.7	19.1	16.7
82.5°	3.2	4.8	7.2	7.2	8.8	10.4	10.4	11.2	11.2	10.4	10.4
85°	2.4	3.2	4.0	4.8	4.8	5.6	4.8	4.8	5.6	6.4	5.6
87.5°	0.8	1.6	0.8	1.6	1.6	3.2	2.4	2.4	2.4	3.2	3.2
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: P244209

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1501.8	1501.8	1501.8	1501.8
2.5°	1503.4	1504.2	1503.4	1503.4
5°	1510.6	1509.8	1510.6	1509.0
7.5°	1516.2	1516.2	1515.4	1515.4
10°	1516.2	1513.0	1513.0	1513.0
12.5°	1504.2	1500.2	1497.8	1496.2
15°	1483.5	1476.3	1473.1	1472.3
17.5°	1456.4	1450.0	1446.0	1443.6
20°	1425.3	1418.9	1414.1	1414.9
22.5°	1398.2	1391.0	1387.8	1386.2
25°	1371.1	1362.3	1359.9	1358.3
27.5°	1327.3	1322.5	1320.1	1317.7
30°	1260.3	1257.9	1253.9	1259.5
32.5°	1183.0	1179.0	1175.8	1178.2
35°	1097.7	1095.3	1097.7	1096.1
37.5°	1019.6	1021.9	1025.1	1026.7
40°	958.2	966.9	970.1	971.7
42.5°	896.8	907.2	913.5	917.5
45°	821.1	831.4	838.6	843.4
47.5°	742.9	751.7	758.9	758.1
50°	672.0	676.8	680.0	683.2
52.5°	600.2	600.2	601.0	601.0
55°	518.9	517.3	516.6	517.3
57.5°	429.7	428.1	427.3	424.9
60°	348.4	343.6	340.4	340.4
62.5°	272.6	267.0	264.7	263.9
65°	204.9	204.1	199.3	198.5
67.5°	148.3	145.1	141.9	142.7
70°	104.4	99.7	99.7	98.1
72.5°	67.8	65.4	64.6	64.6
75°	42.2	42.2	40.6	43.8
77.5°	27.9	27.9	27.1	27.9
80°	16.7	16.7	16.7	15.9
82.5°	10.4	11.2	10.4	10.4
85°	5.6	6.4	4.8	7.2
87.5°	3.2	4.0	3.2	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)