

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: P244203

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244203
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 EC8B30935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2772.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

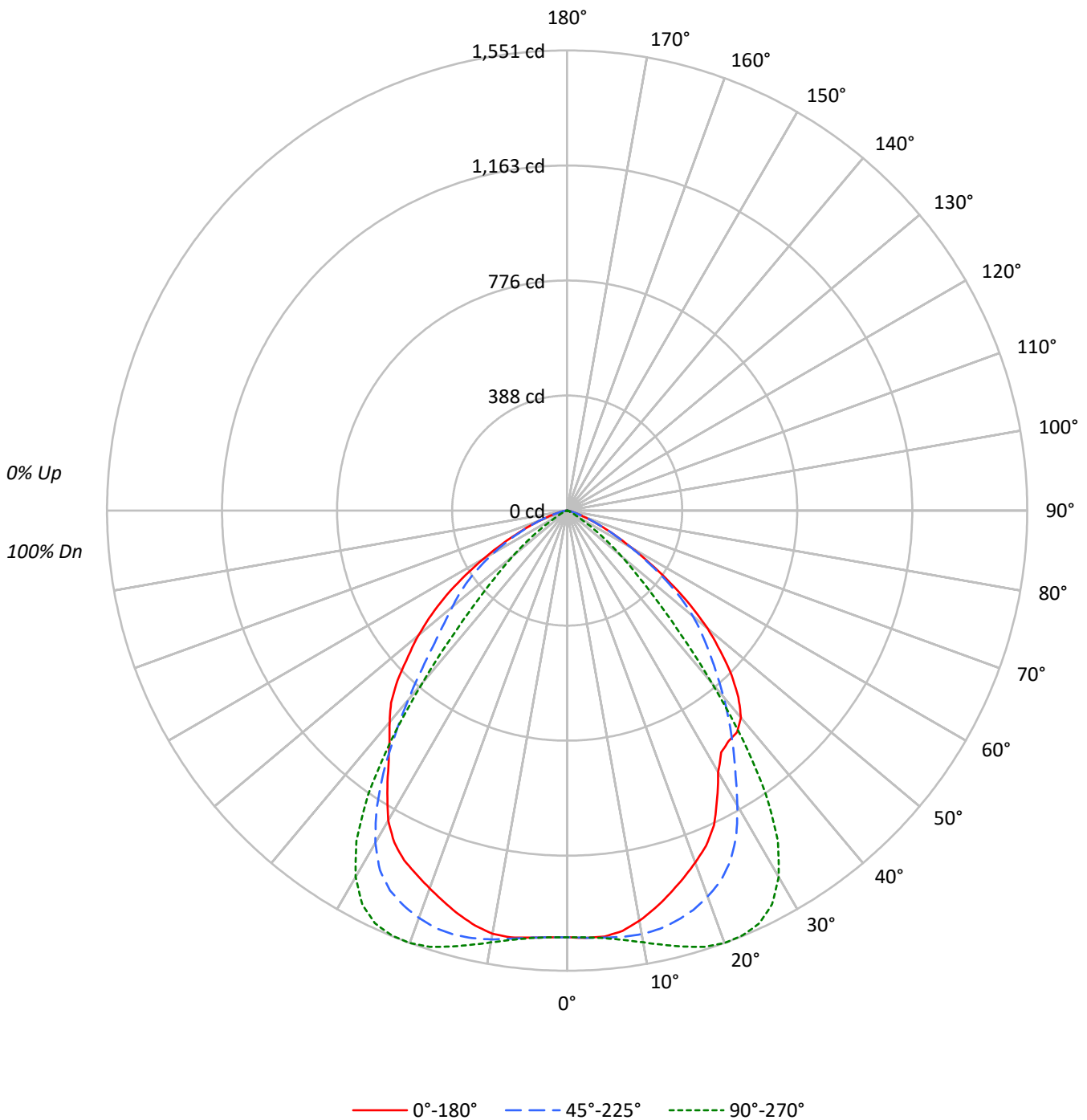
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

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°	44343	44343	44343
5°	44608	44772	44726
10°	43953	46270	45362
15°	42667	48563	45007
20°	41429	50897	44458
25°	39839	52200	44252
30°	36255	50768	42942
35°	35717	43991	39508
40°	36687	30508	37452
45°	34150	18438	35219
50°	29623	11389	31379
55°	22730	5951	26633
60°	15486	2399	20099
65°	9631	1226	13863
70°	5229	757	8466
75°	2728	357	5004
80°	1225	408	2717
85°	814	283	2441



TEST NUMBER: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	5.0
10°-20°	409.7	14.8
20°-30°	625.0	22.5
30°-40°	652.2	23.5
40°-50°	489.9	17.7
50°-60°	301.4	10.9
60°-70°	122.7	4.4
70°-80°	28.9	1.0
80°-90°	4.0	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°	1173.0	42.3
0°-40°	1825.2	65.8
0°-60°	2616.4	94.4
0°-90°	2772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1438	1438	1438	1438	1438	
5°	1441	1445	1446	1445	1445	136
15°	1336	1430	1521	1479	1410	377
25°	1171	1302	1534	1413	1301	532
35°	949	976	1169	1080	1050	599
45°	783	678	423	631	808	597
55°	423	402	111	402	495	380
65°	132	134	17	179	190	138
75°	23	23	3	40	42	28
85°	2	2	1	5	7	3
90°	0	0	0	0	0	



TEST NUMBER: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW01I

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1441.8	1439.5	1441.8	1441.8	1442.6	1441.1	1441.8	1442.6	1441.1	1441.1	1441.1
5°	1441.1	1439.5	1441.1	1440.3	1441.8	1441.8	1443.4	1443.4	1444.9	1444.9	1447.2
7.5°	1428.9	1425.8	1428.9	1431.2	1432.7	1435.7	1439.5	1442.6	1445.7	1448.7	1452.5
10°	1403.7	1403.7	1406.0	1410.5	1415.1	1420.5	1427.3	1435.0	1442.6	1449.5	1456.3
12.5°	1372.4	1370.1	1374.7	1380.8	1387.6	1396.0	1406.7	1418.2	1430.4	1444.1	1454.8
15°	1336.5	1334.2	1339.6	1345.7	1354.1	1366.3	1379.3	1394.5	1412.1	1430.4	1448.0
17.5°	1299.9	1299.1	1304.4	1312.8	1319.7	1332.7	1349.5	1367.8	1387.6	1412.1	1435.0
20°	1262.5	1261.7	1267.1	1273.9	1283.1	1295.3	1312.1	1333.4	1357.1	1384.6	1411.3
22.5°	1223.5	1224.3	1228.9	1236.5	1244.2	1257.1	1274.7	1296.1	1322.0	1351.8	1381.5
25°	1170.9	1167.1	1173.2	1180.8	1193.8	1204.5	1221.3	1244.2	1270.9	1302.2	1337.3
27.5°	1094.5	1093.8	1099.1	1106.0	1117.4	1130.4	1148.7	1172.4	1200.6	1235.0	1269.3
30°	1018.2	1019.7	1022.0	1028.9	1036.5	1049.5	1067.8	1087.7	1114.4	1147.2	1183.9
32.5°	966.3	966.3	969.4	973.9	979.3	986.2	999.1	1013.6	1034.3	1057.2	1083.9
35°	948.8	945.7	948.8	949.5	950.3	951.8	954.1	958.7	965.5	975.5	985.4
37.5°	941.1	938.8	938.8	935.8	932.0	927.4	921.3	914.4	906.8	896.9	889.2
40°	911.4	909.8	908.3	905.3	896.9	887.7	877.8	861.7	844.2	819.8	795.3
42.5°	854.1	852.6	851.8	845.7	838.1	827.4	815.9	799.2	777.0	745.7	710.6
45°	783.1	780.1	777.8	772.4	767.1	757.9	747.3	732.0	709.8	677.8	635.8
47.5°	700.7	699.2	698.4	696.1	690.8	685.4	678.6	666.3	646.5	616.0	572.5
50°	617.5	614.4	616.0	615.2	612.9	609.1	604.5	596.1	580.9	553.4	513.7
52.5°	522.1	522.1	521.3	523.6	524.4	523.6	524.4	515.2	502.2	481.6	448.0
55°	422.8	422.8	425.1	428.2	431.3	432.0	431.3	427.4	418.3	401.5	371.7
57.5°	329.7	328.2	332.8	337.4	340.4	343.5	341.2	338.1	332.8	319.0	296.1
60°	251.1	251.1	254.2	257.2	260.3	263.3	262.6	261.8	257.2	248.1	229.8
62.5°	184.7	185.5	185.5	187.8	190.8	193.9	196.2	193.9	191.6	185.5	173.3
65°	132.0	131.3	132.0	134.3	136.6	139.7	141.2	140.4	138.1	133.6	124.4
67.5°	88.5	87.8	90.8	91.6	93.1	96.2	95.4	96.2	95.4	91.6	84.0
70°	58.0	56.5	58.0	57.2	59.5	60.3	61.8	62.6	61.8	59.5	57.2
72.5°	35.9	35.1	35.9	36.6	37.4	38.2	39.7	39.7	38.9	37.4	34.3
75°	22.9	20.6	21.4	19.9	21.4	21.4	22.9	23.7	22.9	22.9	21.4
77.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.5	15.3	13.7	13.0
80°	6.9	6.9	7.6	7.6	7.6	8.4	7.6	7.6	7.6	8.4	6.1
82.5°	5.3	4.6	4.6	4.6	5.3	4.6	4.6	4.6	4.6	4.6	4.6
85°	2.3	3.0	2.3	1.5	2.3	2.3	3.0	2.3	2.3	2.3	3.0
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.5	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: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1441.8	1440.3	1440.3	1439.5	1441.1	1439.5	1440.3	1439.5	1439.5	1441.1	1439.5
5°	1447.2	1448.0	1446.4	1445.7	1448.0	1448.0	1448.0	1446.4	1446.4	1447.2	1446.4
7.5°	1454.8	1456.3	1457.1	1457.9	1459.4	1460.2	1460.2	1459.4	1458.6	1460.9	1457.9
10°	1463.2	1465.5	1470.1	1472.4	1476.2	1476.2	1477.7	1477.7	1476.2	1477.7	1477.0
12.5°	1460.2	1473.9	1481.5	1486.9	1492.2	1496.8	1498.3	1499.1	1498.3	1501.4	1498.3
15°	1465.5	1477.0	1489.2	1498.3	1508.2	1513.6	1515.1	1521.2	1522.7	1523.5	1518.9
17.5°	1457.1	1477.7	1490.7	1504.4	1518.9	1528.9	1538.0	1541.8	1542.6	1544.1	1538.0
20°	1438.0	1460.9	1480.8	1500.6	1517.4	1532.7	1540.3	1551.0	1547.9	1554.1	1545.6
22.5°	1412.1	1438.0	1463.2	1489.2	1506.7	1525.0	1541.1	1548.7	1552.5	1552.5	1543.4
25°	1370.9	1401.4	1428.9	1455.6	1482.3	1504.4	1522.7	1534.2	1536.5	1535.7	1525.0
27.5°	1306.7	1339.6	1371.6	1402.2	1435.0	1460.9	1482.3	1496.0	1499.9	1499.9	1488.4
30°	1218.2	1253.3	1284.6	1321.2	1354.8	1383.8	1413.6	1425.8	1432.7	1432.7	1419.7
32.5°	1112.9	1142.6	1171.6	1207.5	1244.2	1277.0	1305.2	1322.0	1330.4	1329.6	1318.2
35°	998.4	1012.9	1035.0	1061.7	1094.5	1125.1	1152.5	1168.6	1183.1	1182.3	1171.6
37.5°	883.9	880.1	882.4	892.3	912.9	934.3	955.6	970.9	983.1	988.5	986.2
40°	771.7	751.8	732.7	725.9	727.4	735.0	746.5	757.9	771.7	778.6	781.6
42.5°	670.9	637.3	603.7	578.6	564.1	559.5	564.8	568.6	577.0	587.0	596.9
45°	590.0	545.0	500.7	461.8	437.4	422.8	419.8	422.8	427.4	437.4	450.3
47.5°	523.6	470.9	421.3	377.8	341.9	322.9	317.5	316.0	320.6	329.7	347.3
50°	464.8	412.2	357.2	306.8	269.4	248.1	240.4	237.4	242.7	249.6	265.6
52.5°	400.7	348.8	292.3	243.5	204.6	182.4	174.0	169.4	172.5	181.7	197.7
55°	331.3	283.2	232.0	181.7	144.3	123.7	113.7	110.7	113.7	123.7	139.7
57.5°	261.8	221.4	178.6	131.3	97.7	77.1	67.2	64.1	72.5	76.3	93.1
60°	204.6	171.7	135.1	96.2	67.2	51.1	41.2	38.9	42.7	49.6	63.3
62.5°	153.4	132.8	103.8	68.7	49.6	32.8	27.5	25.2	27.5	32.8	43.5
65°	111.4	95.4	72.5	50.4	33.6	24.4	18.3	16.8	19.1	22.9	32.1
67.5°	76.3	64.1	50.4	35.1	22.9	15.3	13.0	13.0	13.7	16.8	23.7
70°	49.6	42.0	32.1	22.9	15.3	11.4	9.9	8.4	9.9	12.2	16.0
72.5°	31.3	26.7	20.6	16.0	11.4	8.4	6.9	6.1	7.6	9.2	12.2
75°	19.1	14.5	10.7	8.4	6.1	6.1	6.1	3.0	3.8	6.1	7.6
77.5°	11.4	9.9	8.4	6.9	5.3	3.0	3.0	3.0	3.8	4.6	6.9
80°	6.1	5.3	3.8	3.8	3.0	2.3	3.0	2.3	1.5	3.8	4.6
82.5°	3.8	3.0	3.0	3.0	3.8	1.5	2.3	1.5	2.3	3.0	2.3
85°	2.3	2.3	2.3	1.5	3.8	1.5	1.5	0.8	0.8	1.5	1.5
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: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1440.3	1439.5	1440.3	1439.5	1439.5	1439.5	1440.3	1440.3	1439.5	1439.5	1441.1
5°	1446.4	1446.4	1446.4	1445.7	1444.9	1444.9	1446.4	1446.4	1444.1	1446.4	1446.4
7.5°	1459.4	1457.1	1459.4	1456.3	1454.8	1455.6	1456.3	1454.8	1453.3	1454.1	1454.1
10°	1476.2	1473.9	1473.9	1471.6	1469.3	1467.8	1466.3	1462.4	1458.6	1457.9	1454.8
12.5°	1496.0	1492.2	1489.9	1485.3	1481.5	1476.2	1471.6	1465.5	1457.9	1452.5	1447.2
15°	1515.9	1509.8	1504.4	1496.8	1488.4	1479.2	1469.3	1459.4	1447.2	1436.5	1427.3
17.5°	1531.9	1523.5	1513.6	1501.4	1489.2	1475.4	1460.9	1446.4	1428.9	1415.1	1404.4
20°	1537.2	1525.0	1512.1	1496.0	1480.0	1460.9	1442.6	1423.5	1403.7	1389.2	1377.0
22.5°	1530.4	1515.9	1499.9	1483.1	1461.7	1441.1	1419.7	1397.6	1380.0	1360.2	1348.7
25°	1511.3	1493.7	1476.2	1456.3	1435.7	1412.8	1389.9	1367.0	1345.7	1335.0	1320.5
27.5°	1472.4	1453.3	1434.2	1413.6	1389.9	1367.0	1343.4	1321.2	1302.9	1288.4	1280.0
30°	1403.7	1381.5	1359.4	1337.3	1316.7	1293.0	1270.9	1252.5	1234.2	1222.8	1214.4
32.5°	1298.3	1278.5	1256.4	1235.0	1215.9	1196.1	1177.7	1161.7	1148.7	1141.1	1135.0
35°	1156.4	1136.5	1119.7	1104.5	1088.4	1080.0	1068.6	1059.4	1054.1	1051.0	1050.3
37.5°	977.8	966.3	961.0	957.9	954.9	952.6	954.1	957.9	961.0	966.3	972.4
40°	786.9	796.9	799.9	810.6	820.5	833.5	848.0	864.8	878.5	896.1	908.3
42.5°	612.9	631.2	652.6	675.5	699.9	723.6	752.6	779.3	803.7	825.9	845.0
45°	470.9	499.2	531.2	564.1	596.9	631.2	666.3	699.2	728.2	751.8	771.7
47.5°	367.1	398.4	439.7	480.1	519.8	560.3	599.2	633.5	657.9	680.8	698.4
50°	290.8	326.7	371.7	418.3	461.8	504.5	545.7	577.8	602.2	620.6	633.5
52.5°	225.2	267.9	313.7	362.6	409.1	455.7	493.8	523.6	543.5	559.5	569.4
55°	167.9	209.9	258.8	309.1	356.5	401.5	437.4	463.3	480.9	490.0	495.4
57.5°	121.4	159.5	208.4	258.8	301.5	344.2	373.2	396.9	406.8	412.2	414.5
60°	88.5	123.7	167.2	210.7	251.1	285.5	310.7	326.7	334.3	337.4	336.6
62.5°	64.9	95.4	132.8	169.4	202.3	230.5	250.4	261.0	264.9	266.4	264.1
65°	49.6	73.3	105.3	133.6	158.8	179.4	193.9	200.8	203.0	202.3	200.8
67.5°	36.6	55.0	78.6	100.0	118.3	134.3	142.0	148.1	149.6	147.3	145.0
70°	26.0	40.5	57.2	71.8	85.5	94.7	103.0	103.8	103.8	103.0	101.5
72.5°	18.3	28.2	38.9	48.9	57.2	64.1	67.2	69.5	68.7	67.9	66.4
75°	12.2	17.6	28.2	30.5	38.2	40.5	43.5	43.5	44.3	42.0	42.0
77.5°	7.6	12.2	16.8	19.9	22.9	26.0	27.5	27.5	28.2	27.5	27.5
80°	4.6	7.6	9.2	13.7	13.7	16.0	16.8	17.6	16.0	18.3	16.0
82.5°	3.0	4.6	6.9	6.9	8.4	9.9	9.9	10.7	10.7	9.9	9.9
85°	2.3	3.0	3.8	4.6	4.6	5.3	4.6	4.6	5.3	6.1	5.3
87.5°	0.8	1.5	0.8	1.5	1.5	3.0	2.3	2.3	2.3	3.0	3.0
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: P244203

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1438.0	1438.0	1438.0	1438.0
2.5°	1439.5	1440.3	1439.5	1439.5
5°	1446.4	1445.7	1446.4	1444.9
7.5°	1451.8	1451.8	1451.0	1451.0
10°	1451.8	1448.7	1448.7	1448.7
12.5°	1440.3	1436.5	1434.2	1432.7
15°	1420.5	1413.6	1410.5	1409.8
17.5°	1394.5	1388.4	1384.6	1382.3
20°	1364.7	1358.6	1354.1	1354.8
22.5°	1338.8	1331.9	1328.9	1327.3
25°	1312.8	1304.4	1302.2	1300.6
27.5°	1270.9	1266.3	1264.0	1261.7
30°	1206.7	1204.5	1200.6	1206.0
32.5°	1132.7	1128.9	1125.8	1128.1
35°	1051.0	1048.7	1051.0	1049.5
37.5°	976.2	978.5	981.6	983.1
40°	917.5	925.9	928.9	930.4
42.5°	858.7	868.6	874.7	878.5
45°	786.2	796.1	803.0	807.6
47.5°	711.4	719.8	726.6	725.9
50°	643.5	648.0	651.1	654.1
52.5°	574.7	574.7	575.5	575.5
55°	496.9	495.4	494.6	495.4
57.5°	411.4	409.9	409.1	406.8
60°	333.6	329.0	325.9	325.9
62.5°	261.0	255.7	253.4	252.7
65°	196.2	195.4	190.8	190.0
67.5°	142.0	138.9	135.9	136.6
70°	100.0	95.4	95.4	93.9
72.5°	64.9	62.6	61.8	61.8
75°	40.5	40.5	38.9	42.0
77.5°	26.7	26.7	26.0	26.7
80°	16.0	16.0	16.0	15.3
82.5°	9.9	10.7	9.9	9.9
85°	5.3	6.1	4.6	6.9
87.5°	3.0	3.8	3.0	3.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)