

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: P246039

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30830 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

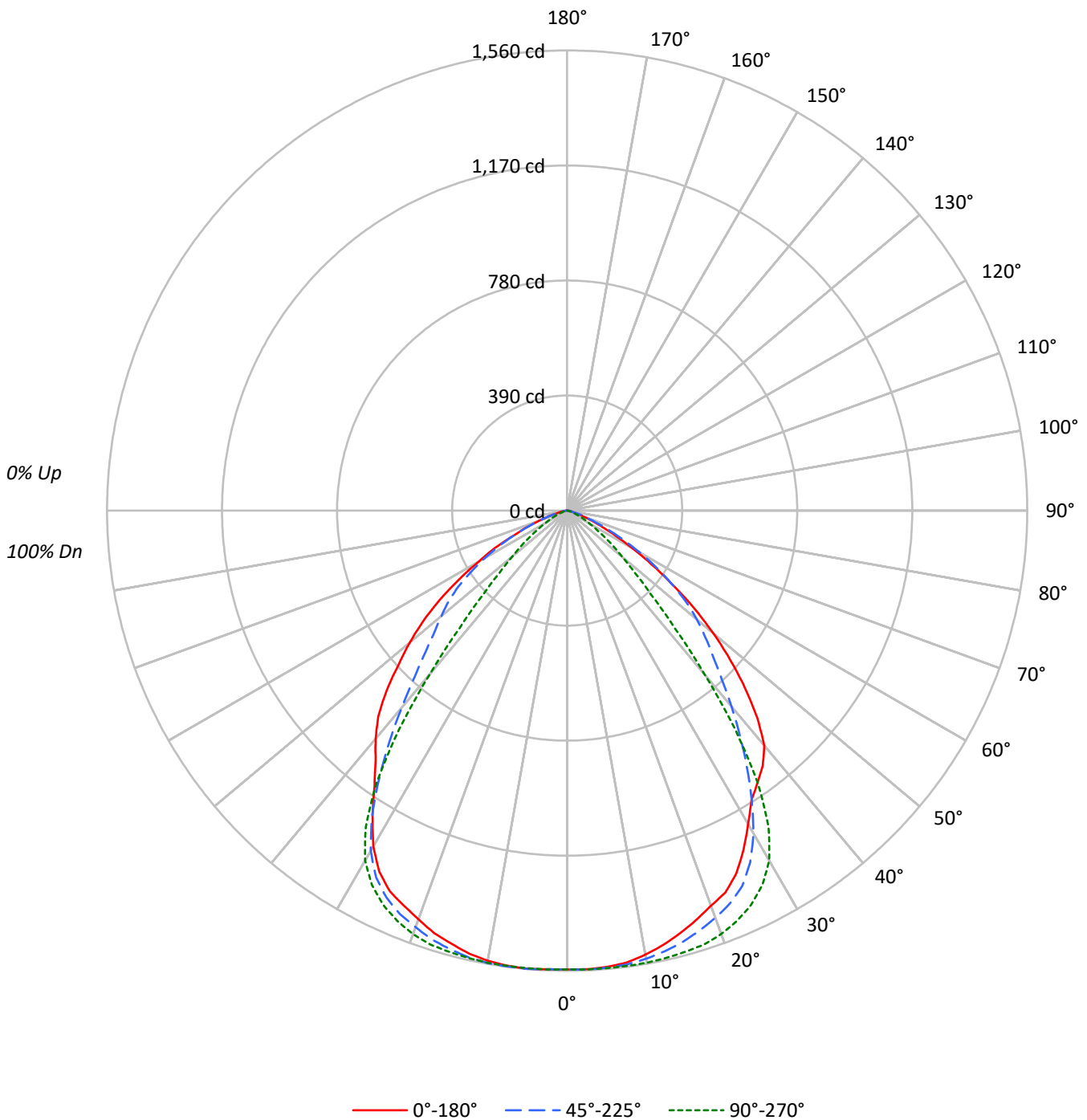
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47963	47963	47963
5°	48069	48199	48251
10°	47867	48731	48521
15°	47337	49441	48509
20°	46768	50139	48383
25°	46161	50196	48433
30°	43672	48785	46791
35°	42369	42399	42839
40°	41844	29172	40665
45°	37281	17513	37792
50°	31000	11657	33403
55°	23252	8037	28322
60°	15757	5353	21370
65°	9507	3473	14681
70°	5265	1884	9034
75°	2383	798	4670
80°	2078	888	3267
85°	2371	1168	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	5.0
10°-20°	431.1	14.6
20°-30°	654.3	22.2
30°-40°	687.2	23.3
40°-50°	515.2	17.5
50°-60°	330.6	11.2
60°-70°	141.4	4.8
70°-80°	33.4	1.1
80°-90°	6.2	0.2
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°	1233.9	41.9
0°-40°	1921.1	65.2
0°-60°	2766.9	93.9
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1555	1555	1555	1555	1555	
5°	1553	1555	1557	1560	1559	148
15°	1483	1514	1549	1539	1520	418
25°	1357	1404	1475	1449	1424	620
35°	1126	1063	1126	1113	1138	706
45°	855	699	402	679	867	655
55°	432	432	150	451	527	392
65°	130	154	48	198	201	139
75°	20	23	7	40	39	29
85°	7	4	3	7	9	7
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°	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4
2.5°	1556.3	1557.9	1557.1	1557.1	1556.3	1557.1	1557.1	1558.8	1558.8	1557.1	1556.3
5°	1552.9	1554.6	1554.6	1552.9	1552.9	1557.1	1554.6	1556.3	1556.3	1555.4	1555.4
7.5°	1545.4	1545.4	1548.7	1546.2	1546.2	1548.7	1547.9	1549.6	1551.3	1552.1	1552.1
10°	1528.7	1530.4	1531.2	1531.2	1532.1	1534.5	1536.2	1539.6	1541.2	1542.9	1543.7
12.5°	1507.8	1510.3	1511.2	1510.3	1512.8	1516.2	1520.4	1524.5	1527.0	1530.4	1532.9
15°	1482.8	1482.8	1484.5	1487.0	1488.6	1493.6	1497.8	1502.8	1509.5	1513.7	1517.9
17.5°	1455.2	1456.9	1459.4	1459.4	1462.8	1471.1	1473.6	1481.1	1488.6	1492.8	1501.2
20°	1425.2	1426.8	1429.4	1431.0	1435.2	1441.9	1446.9	1453.6	1461.9	1469.4	1477.8
22.5°	1401.8	1398.5	1400.1	1401.8	1406.0	1411.8	1417.7	1426.0	1434.4	1441.9	1450.2
25°	1356.7	1357.6	1360.1	1361.7	1366.7	1371.7	1378.4	1388.4	1396.0	1404.3	1413.5
27.5°	1295.8	1296.6	1300.8	1300.8	1304.9	1313.3	1317.5	1325.8	1335.9	1344.2	1355.1
30°	1226.5	1228.1	1228.1	1231.5	1234.0	1238.2	1242.3	1250.7	1255.7	1263.2	1278.2
32.5°	1163.0	1164.7	1163.8	1163.0	1160.5	1159.7	1158.8	1160.5	1162.2	1164.7	1170.5
35°	1125.5	1121.3	1117.9	1112.1	1105.4	1097.1	1089.5	1079.5	1070.3	1062.8	1054.5
37.5°	1089.5	1088.7	1083.7	1075.3	1062.0	1047.0	1029.4	1007.7	986.0	962.6	940.1
40°	1039.5	1036.9	1032.8	1021.1	1006.1	987.7	964.3	937.6	902.5	866.6	829.9
42.5°	954.3	955.1	950.1	940.9	926.7	909.2	885.0	855.8	818.2	775.6	728.0
45°	854.9	854.9	853.3	845.7	835.7	821.5	803.2	779.0	742.2	698.8	647.9
47.5°	751.4	752.2	749.7	748.1	743.9	734.7	721.4	703.0	677.1	635.4	584.4
50°	646.2	646.2	650.4	649.6	649.6	646.2	640.4	629.5	607.0	573.6	526.0
52.5°	541.0	542.7	545.2	548.5	552.7	559.4	552.7	547.7	533.5	507.6	466.7
55°	432.5	434.2	438.3	444.2	449.2	455.9	457.5	457.5	450.0	432.5	401.6
57.5°	339.8	337.3	340.6	345.7	352.3	359.0	364.0	369.9	369.0	357.3	332.3
60°	255.5	256.3	258.8	263.8	268.8	274.7	281.4	286.4	288.9	283.0	267.2
62.5°	186.2	186.2	189.5	194.5	197.0	205.4	209.6	212.1	214.6	213.7	203.7
65°	130.3	131.9	133.6	136.1	138.6	143.6	146.1	151.1	152.8	153.6	146.1
67.5°	91.8	89.3	91.0	92.7	95.2	98.5	103.5	103.5	106.0	106.0	101.0
70°	58.4	58.4	59.3	61.8	63.5	64.3	66.0	67.6	70.1	69.3	69.3
72.5°	39.2	38.4	39.2	40.1	40.9	43.4	43.4	44.2	45.9	46.8	43.4
75°	20.0	20.9	22.5	21.7	24.2	22.5	23.4	25.9	25.0	23.4	23.4
77.5°	16.7	16.7	16.7	15.9	17.5	17.5	16.7	18.4	17.5	17.5	16.7
80°	11.7	12.5	11.7	10.8	11.7	10.8	10.8	10.8	10.8	10.8	10.0
82.5°	9.2	7.5	8.4	7.5	8.4	8.4	7.5	6.7	6.7	7.5	6.7
85°	6.7	5.0	5.8	5.8	5.0	5.0	5.0	5.0	5.0	4.2	4.2
87.5°	4.2	2.5	2.5	2.5	3.3	3.3	3.3	2.5	3.3	3.3	1.7
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°	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4
2.5°	1557.9	1557.1	1558.8	1557.9	1557.9	1557.1	1557.9	1557.1	1558.8	1555.4	1556.3
5°	1557.9	1556.3	1557.1	1557.9	1558.8	1557.1	1557.1	1557.1	1558.8	1557.1	1557.9
7.5°	1554.6	1553.7	1556.3	1557.9	1557.1	1556.3	1557.9	1557.1	1558.8	1557.9	1559.6
10°	1547.9	1548.7	1550.4	1552.9	1553.7	1554.6	1556.3	1556.3	1558.8	1555.4	1557.1
12.5°	1537.9	1541.2	1545.4	1547.1	1550.4	1550.4	1552.1	1552.9	1554.6	1553.7	1556.3
15°	1525.4	1529.5	1534.5	1538.7	1542.9	1545.4	1547.9	1548.7	1551.3	1548.7	1549.6
17.5°	1510.3	1515.3	1522.9	1527.9	1534.5	1537.1	1540.4	1542.1	1544.6	1542.9	1543.7
20°	1489.5	1495.3	1503.7	1511.2	1515.3	1521.2	1525.4	1527.9	1529.5	1527.9	1528.7
22.5°	1460.2	1468.6	1479.4	1485.3	1493.6	1498.7	1499.5	1505.3	1509.5	1505.3	1507.0
25°	1426.0	1434.4	1442.7	1455.2	1462.8	1468.6	1474.4	1475.3	1479.4	1478.6	1477.8
27.5°	1369.2	1380.1	1394.3	1404.3	1414.3	1423.5	1430.2	1431.8	1436.0	1434.4	1435.2
30°	1291.6	1303.3	1316.7	1332.5	1346.7	1355.9	1364.2	1370.1	1374.2	1371.7	1370.9
32.5°	1181.4	1193.1	1207.3	1223.1	1239.8	1253.2	1263.2	1270.7	1275.7	1274.1	1269.9
35°	1055.3	1058.7	1067.8	1080.4	1094.6	1108.7	1117.9	1126.3	1132.1	1133.8	1133.8
37.5°	925.9	915.1	908.4	908.4	916.7	922.6	930.9	935.9	945.1	948.4	951.0
40°	800.7	775.6	752.2	734.7	723.0	722.2	722.2	724.7	733.0	743.9	753.9
42.5°	688.8	648.7	612.8	580.3	556.9	543.5	537.7	538.5	545.2	555.2	571.9
45°	599.5	549.4	504.3	465.0	433.3	412.4	402.4	401.6	406.6	418.3	436.7
47.5°	530.2	476.7	425.8	380.7	346.5	323.9	312.3	308.9	312.3	323.1	344.8
50°	472.6	417.5	364.9	318.1	281.4	258.0	247.1	243.0	247.1	256.3	278.0
52.5°	419.1	362.3	313.1	268.0	228.8	208.7	197.0	194.5	197.0	207.9	225.4
55°	357.3	308.9	260.5	215.4	181.2	161.1	151.9	149.5	151.9	162.0	180.3
57.5°	296.4	254.6	212.1	171.2	141.9	124.4	116.1	112.7	118.5	125.2	146.9
60°	239.6	206.2	170.3	134.4	110.2	94.3	87.7	86.8	88.5	96.9	111.9
62.5°	187.9	160.3	131.9	102.7	82.7	76.0	67.6	66.8	68.5	73.5	85.2
65°	135.3	117.7	96.0	75.1	59.3	50.1	46.8	47.6	49.3	52.6	63.5
67.5°	94.3	81.8	66.8	52.6	40.9	36.7	33.4	32.6	33.4	39.2	45.1
70°	63.5	55.9	45.1	40.1	28.4	22.5	23.4	20.9	24.2	24.2	29.2
72.5°	41.7	36.7	30.1	23.4	20.0	15.9	15.9	15.0	16.7	17.5	21.7
75°	21.7	16.7	16.7	11.7	8.4	4.2	7.5	6.7	5.8	6.7	8.4
77.5°	15.0	12.5	11.7	9.2	8.4	6.7	6.7	6.7	6.7	7.5	8.4
80°	9.2	9.2	6.7	5.8	5.0	4.2	5.0	5.0	5.0	5.0	5.8
82.5°	5.8	5.0	5.0	4.2	4.2	3.3	3.3	3.3	3.3	3.3	5.0
85°	5.0	3.3	3.3	2.5	3.3	5.8	2.5	3.3	3.3	3.3	2.5
87.5°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	2.5	2.5	4.2	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4	1555.4
2.5°	1557.9	1558.8	1558.8	1557.9	1557.9	1556.3	1559.6	1557.1	1557.9	1561.3	1558.8
5°	1559.6	1560.4	1560.4	1559.6	1559.6	1559.6	1560.4	1560.4	1559.6	1558.8	1560.4
7.5°	1562.9	1562.1	1562.1	1560.4	1560.4	1558.8	1560.4	1557.9	1559.6	1557.9	1560.4
10°	1558.8	1559.6	1558.8	1557.9	1557.9	1557.1	1557.1	1554.6	1555.4	1552.9	1554.6
12.5°	1556.3	1555.4	1555.4	1553.7	1552.1	1550.4	1549.6	1547.1	1547.1	1541.2	1543.7
15°	1549.6	1550.4	1547.9	1544.6	1542.9	1538.7	1537.1	1533.7	1530.4	1526.2	1527.0
17.5°	1543.7	1541.2	1537.9	1534.5	1527.9	1524.5	1521.2	1516.2	1514.5	1509.5	1507.8
20°	1526.2	1524.5	1520.4	1514.5	1510.3	1502.8	1499.5	1494.5	1490.3	1485.3	1482.8
22.5°	1503.7	1502.0	1497.0	1491.1	1484.5	1481.1	1477.8	1468.6	1464.4	1459.4	1458.6
25°	1475.3	1472.8	1467.8	1461.1	1457.7	1448.6	1445.2	1438.5	1436.9	1431.8	1431.0
27.5°	1431.8	1428.5	1422.7	1414.3	1408.5	1402.6	1399.3	1394.3	1392.6	1387.6	1386.8
30°	1366.7	1362.6	1350.9	1347.5	1337.5	1331.7	1331.7	1325.0	1325.8	1322.5	1322.5
32.5°	1264.0	1257.4	1248.2	1241.5	1234.8	1231.5	1231.5	1229.0	1230.6	1230.6	1232.3
35°	1128.0	1118.8	1113.8	1109.6	1109.6	1112.9	1122.9	1125.5	1130.5	1134.6	1138.0
37.5°	953.4	952.6	958.5	963.5	976.0	990.2	1007.7	1022.8	1036.9	1047.0	1057.0
40°	764.8	785.6	802.3	825.7	844.9	872.5	904.2	930.1	954.3	971.8	990.2
42.5°	596.9	623.7	658.7	693.0	727.2	764.8	806.5	842.4	874.1	898.4	917.6
45°	465.0	501.8	544.4	587.8	632.0	678.8	722.2	758.9	792.3	817.4	836.6
47.5°	374.9	414.9	463.4	511.0	561.1	610.3	658.7	690.5	718.0	738.0	755.6
50°	309.7	352.3	403.3	457.5	507.6	556.9	598.6	629.5	652.1	669.6	680.4
52.5°	258.8	303.9	358.2	412.4	462.5	507.6	545.2	568.6	586.9	599.5	609.5
55°	213.7	257.2	308.1	359.0	408.3	450.8	481.7	499.3	513.5	521.0	526.8
57.5°	174.5	214.6	261.3	308.1	350.7	385.7	409.9	427.5	434.2	440.0	439.2
60°	136.9	174.5	217.1	257.2	293.9	322.3	339.8	349.8	354.8	357.3	355.7
62.5°	107.7	141.9	174.5	209.6	236.3	260.5	277.2	277.2	279.7	280.5	283.0
65°	80.1	106.0	134.4	160.3	182.0	197.9	207.1	209.6	212.9	212.1	210.4
67.5°	59.3	78.5	99.3	118.5	133.6	143.6	150.3	156.1	155.3	153.6	152.8
70°	40.9	53.4	71.8	83.5	94.3	104.4	106.0	106.9	107.7	108.5	106.9
72.5°	28.4	37.6	47.6	57.6	64.3	68.5	72.6	73.5	73.5	73.5	72.6
75°	14.2	19.2	28.4	32.6	38.4	40.1	43.4	43.4	45.9	42.6	41.7
77.5°	12.5	15.0	20.0	23.4	25.9	28.4	29.2	31.7	30.9	29.2	30.1
80°	7.5	9.2	12.5	14.2	17.5	18.4	19.2	20.0	19.2	20.0	20.0
82.5°	5.8	6.7	8.4	8.4	10.8	10.8	11.7	11.7	12.5	12.5	12.5
85°	3.3	5.8	5.0	10.0	6.7	6.7	8.4	10.0	8.4	8.4	10.0
87.5°	3.3	3.3	2.5	3.3	3.3	3.3	4.2	5.0	5.0	5.8	5.0
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: P246039

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1555.4	1555.4	1555.4	1555.4
2.5°	1557.9	1559.6	1557.1	1556.3
5°	1560.4	1560.4	1558.8	1558.8
7.5°	1560.4	1560.4	1557.9	1556.3
10°	1553.7	1553.7	1551.3	1549.6
12.5°	1541.2	1541.2	1540.4	1537.9
15°	1525.4	1525.4	1522.0	1519.5
17.5°	1503.7	1505.3	1501.2	1501.2
20°	1480.3	1479.4	1476.1	1474.4
22.5°	1456.1	1454.4	1453.6	1448.6
25°	1430.2	1428.5	1426.0	1423.5
27.5°	1385.9	1385.1	1382.6	1379.3
30°	1318.3	1317.5	1314.1	1314.1
32.5°	1230.6	1229.8	1226.5	1227.3
35°	1139.6	1143.0	1141.3	1138.0
37.5°	1063.7	1066.2	1067.8	1066.2
40°	1000.2	1007.7	1008.6	1010.2
42.5°	932.6	942.6	946.0	947.6
45°	851.6	860.8	868.3	866.6
47.5°	768.9	775.6	782.3	777.3
50°	689.6	693.8	696.3	696.3
52.5°	614.5	614.5	613.7	614.5
55°	528.5	528.5	525.2	526.8
57.5°	438.3	440.0	437.5	433.3
60°	354.8	350.7	349.0	346.5
62.5°	276.4	276.4	270.5	278.0
65°	207.1	204.6	202.0	201.2
67.5°	150.3	149.5	146.9	146.1
70°	106.0	102.7	101.9	100.2
72.5°	71.0	71.0	69.3	69.3
75°	43.4	39.2	38.4	39.2
77.5°	30.1	29.2	29.2	28.4
80°	20.0	19.2	20.9	18.4
82.5°	12.5	13.4	12.5	13.4
85°	8.4	10.0	9.2	9.2
87.5°	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)