

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: P246231

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246231
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 EC8B30950 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

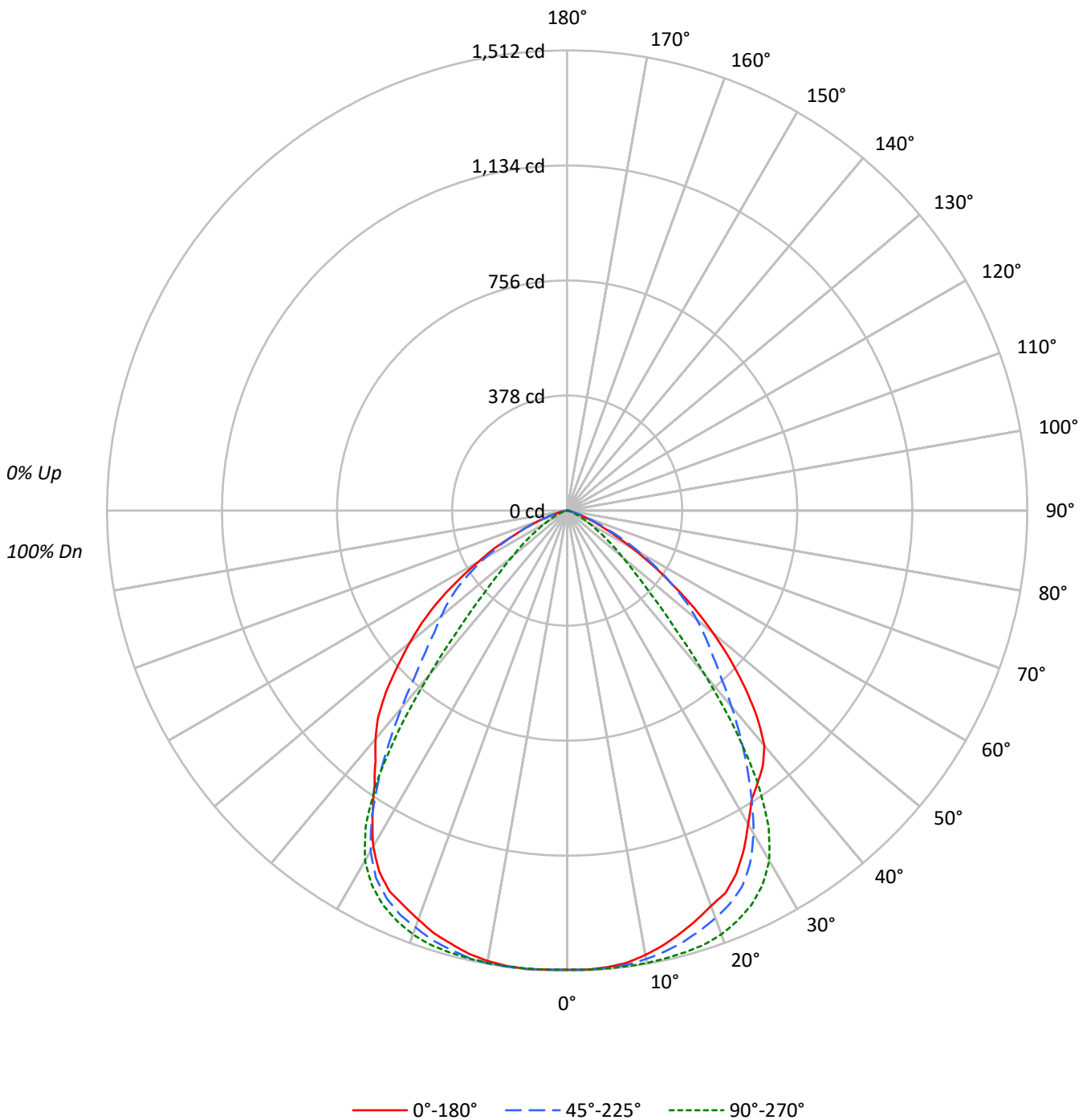
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46517	46517	46517
5°	46617	46744	46793
10°	46423	47259	47056
15°	45907	47950	47047
20°	45357	48622	46923
25°	44769	48678	46970
30°	42354	47311	45381
35°	41089	41119	41544
40°	40580	28290	39437
45°	36156	16986	36653
50°	30065	11302	32396
55°	22548	7790	27467
60°	15282	5193	20722
65°	9215	3371	14235
70°	5112	1821	8763
75°	2311	774	4539
80°	2007	870	3161
85°	2300	1132	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	5.0
10°-20°	418.1	14.6
20°-30°	634.6	22.2
30°-40°	666.5	23.3
40°-50°	499.7	17.5
50°-60°	320.6	11.2
60°-70°	137.2	4.8
70°-80°	32.4	1.1
80°-90°	6.0	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°	1196.6	41.9
0°-40°	1863.1	65.2
0°-60°	2683.4	93.9
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1508	1508	1508	1508	1508	
5°	1506	1508	1510	1512	1512	143
15°	1438	1468	1502	1492	1474	406
25°	1316	1362	1431	1405	1380	601
35°	1092	1031	1092	1079	1104	685
45°	829	678	390	658	840	635
55°	419	419	145	437	511	380
65°	126	149	46	192	195	135
75°	19	23	6	39	38	28
85°	6	4	3	6	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°	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5
2.5°	1509.3	1510.9	1510.1	1510.1	1509.3	1510.1	1510.1	1511.7	1511.7	1510.1	1509.3
5°	1506.0	1507.7	1507.7	1506.0	1506.0	1510.1	1507.7	1509.3	1509.3	1508.5	1508.5
7.5°	1498.8	1498.8	1502.0	1499.6	1499.6	1502.0	1501.2	1502.8	1504.4	1505.2	1505.2
10°	1482.6	1484.2	1485.0	1485.0	1485.8	1488.2	1489.8	1493.1	1494.7	1496.3	1497.1
12.5°	1462.3	1464.7	1465.6	1464.7	1467.2	1470.4	1474.5	1478.5	1480.9	1484.2	1486.6
15°	1438.0	1438.0	1439.6	1442.1	1443.7	1448.6	1452.6	1457.4	1463.9	1468.0	1472.0
17.5°	1411.3	1412.9	1415.3	1415.3	1418.6	1426.7	1429.1	1436.4	1443.7	1447.7	1455.8
20°	1382.2	1383.8	1386.2	1387.8	1391.9	1398.3	1403.2	1409.7	1417.8	1425.1	1433.2
22.5°	1359.5	1356.2	1357.9	1359.5	1363.5	1369.2	1374.9	1383.0	1391.1	1398.3	1406.5
25°	1315.8	1316.6	1319.0	1320.6	1325.5	1330.3	1336.8	1346.5	1353.8	1361.9	1370.8
27.5°	1256.7	1257.5	1261.5	1261.5	1265.6	1273.7	1277.7	1285.8	1295.5	1303.6	1314.1
30°	1189.5	1191.1	1191.1	1194.3	1196.7	1200.8	1204.8	1212.9	1217.8	1225.1	1239.7
32.5°	1127.9	1129.5	1128.7	1127.9	1125.5	1124.7	1123.9	1125.5	1127.1	1129.5	1135.2
35°	1091.5	1087.4	1084.2	1078.5	1072.0	1063.9	1056.7	1046.9	1038.0	1030.7	1022.7
37.5°	1056.7	1055.8	1051.0	1042.9	1029.9	1015.4	998.4	977.3	956.2	933.6	911.7
40°	1008.1	1005.6	1001.6	990.3	975.7	957.9	935.2	909.3	875.3	840.5	804.8
42.5°	925.5	926.3	921.4	912.5	898.8	881.8	858.3	829.9	793.5	752.2	706.1
45°	829.1	829.1	827.5	820.2	810.5	796.7	778.9	755.5	719.8	677.7	628.3
47.5°	728.7	729.5	727.1	725.5	721.4	712.5	699.6	681.8	656.7	616.2	566.8
50°	626.7	626.7	630.8	629.9	629.9	626.7	621.0	610.5	588.7	556.3	510.1
52.5°	524.7	526.3	528.7	532.0	536.0	542.5	536.0	531.2	517.4	492.3	452.6
55°	419.4	421.0	425.1	430.8	435.6	442.1	443.7	443.7	436.4	419.4	389.5
57.5°	329.6	327.1	330.4	335.2	341.7	348.2	353.0	358.7	357.9	346.6	322.3
60°	247.8	248.6	251.0	255.9	260.7	266.4	272.9	277.7	280.2	274.5	259.1
62.5°	180.6	180.6	183.8	188.7	191.1	199.2	203.2	205.7	208.1	207.3	197.6
65°	126.3	127.9	129.6	132.0	134.4	139.3	141.7	146.5	148.2	149.0	141.7
67.5°	89.1	86.6	88.3	89.9	92.3	95.6	100.4	100.4	102.8	102.8	98.0
70°	56.7	56.7	57.5	59.9	61.5	62.3	64.0	65.6	68.0	67.2	67.2
72.5°	38.1	37.2	38.1	38.9	39.7	42.1	42.1	42.9	44.5	45.3	42.1
75°	19.4	20.2	21.9	21.1	23.5	21.9	22.7	25.1	24.3	22.7	22.7
77.5°	16.2	16.2	16.2	15.4	17.0	17.0	16.2	17.8	17.0	17.0	16.2
80°	11.3	12.1	11.3	10.5	11.3	10.5	10.5	10.5	10.5	10.5	9.7
82.5°	8.9	7.3	8.1	7.3	8.1	8.1	7.3	6.5	6.5	7.3	6.5
85°	6.5	4.9	5.7	5.7	4.9	4.9	4.9	4.9	4.9	4.0	4.0
87.5°	4.0	2.4	2.4	2.4	3.2	3.2	3.2	2.4	3.2	3.2	1.6
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°	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5
2.5°	1510.9	1510.1	1511.7	1510.9	1510.9	1510.1	1510.9	1510.1	1511.7	1508.5	1509.3
5°	1510.9	1509.3	1510.1	1510.9	1511.7	1510.1	1510.1	1510.1	1511.7	1510.1	1510.9
7.5°	1507.7	1506.8	1509.3	1510.9	1510.1	1509.3	1510.9	1510.1	1511.7	1510.9	1512.5
10°	1501.2	1502.0	1503.6	1506.0	1506.8	1507.7	1509.3	1509.3	1511.7	1508.5	1510.1
12.5°	1491.5	1494.7	1498.8	1500.4	1503.6	1503.6	1505.2	1506.0	1507.7	1506.8	1509.3
15°	1479.3	1483.4	1488.2	1492.3	1496.3	1498.8	1501.2	1502.0	1504.4	1502.0	1502.8
17.5°	1464.7	1469.6	1476.9	1481.7	1488.2	1490.7	1493.9	1495.5	1497.9	1496.3	1497.1
20°	1444.5	1450.2	1458.3	1465.6	1469.6	1475.3	1479.3	1481.7	1483.4	1481.7	1482.6
22.5°	1416.2	1424.3	1434.8	1440.5	1448.6	1453.4	1454.2	1459.9	1463.9	1459.9	1461.5
25°	1383.0	1391.1	1399.2	1411.3	1418.6	1424.3	1429.9	1430.7	1434.8	1434.0	1433.2
27.5°	1327.9	1338.4	1352.2	1361.9	1371.6	1380.5	1387.0	1388.6	1392.7	1391.1	1391.9
30°	1252.6	1263.9	1276.9	1292.3	1306.0	1314.9	1323.0	1328.7	1332.8	1330.3	1329.5
32.5°	1145.7	1157.1	1170.8	1186.2	1202.4	1215.3	1225.1	1232.4	1237.2	1235.6	1231.6
35°	1023.5	1026.7	1035.6	1047.8	1061.5	1075.3	1084.2	1092.3	1097.9	1099.6	1099.6
37.5°	898.0	887.4	881.0	881.0	889.0	894.7	902.8	907.7	916.6	919.8	922.2
40°	776.5	752.2	729.5	712.5	701.2	700.4	700.4	702.8	710.9	721.4	731.2
42.5°	668.0	629.1	594.3	562.7	540.1	527.1	521.5	522.3	528.7	538.5	554.6
45°	581.4	532.8	489.1	451.0	420.2	400.0	390.3	389.5	394.3	405.7	423.5
47.5°	514.2	462.3	412.9	369.2	336.0	314.2	302.8	299.6	302.8	313.3	334.4
50°	458.3	404.9	353.8	308.5	272.9	250.2	239.7	235.6	239.7	248.6	269.6
52.5°	406.5	351.4	303.6	259.9	221.9	202.4	191.1	188.7	191.1	201.6	218.6
55°	346.6	299.6	252.6	208.9	175.7	156.3	147.4	144.9	147.4	157.1	174.9
57.5°	287.5	247.0	205.7	166.0	137.7	120.6	112.6	109.3	115.0	121.4	142.5
60°	232.4	200.0	165.2	130.4	106.9	91.5	85.0	84.2	85.8	93.9	108.5
62.5°	182.2	155.5	127.9	99.6	80.2	73.7	65.6	64.8	66.4	71.2	82.6
65°	131.2	114.2	93.1	72.9	57.5	48.6	45.3	46.2	47.8	51.0	61.5
67.5°	91.5	79.3	64.8	51.0	39.7	35.6	32.4	31.6	32.4	38.1	43.7
70°	61.5	54.2	43.7	38.9	27.5	21.9	22.7	20.2	23.5	23.5	28.3
72.5°	40.5	35.6	29.1	22.7	19.4	15.4	15.4	14.6	16.2	17.0	21.1
75°	21.1	16.2	16.2	11.3	8.1	4.0	7.3	6.5	5.7	6.5	8.1
77.5°	14.6	12.1	11.3	8.9	8.1	6.5	6.5	6.5	6.5	7.3	8.1
80°	8.9	8.9	6.5	5.7	4.9	4.0	4.9	4.9	4.9	4.9	5.7
82.5°	5.7	4.9	4.9	4.0	4.0	3.2	3.2	3.2	3.2	3.2	4.9
85°	4.9	3.2	3.2	2.4	3.2	5.7	2.4	3.2	3.2	3.2	2.4
87.5°	1.6	2.4	2.4	2.4	1.6	0.8	1.6	2.4	2.4	4.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5	1508.5
2.5°	1510.9	1511.7	1511.7	1510.9	1510.9	1509.3	1512.5	1510.1	1510.9	1514.1	1511.7
5°	1512.5	1513.3	1513.3	1512.5	1512.5	1512.5	1513.3	1513.3	1512.5	1511.7	1513.3
7.5°	1515.8	1514.9	1514.9	1513.3	1513.3	1511.7	1513.3	1510.9	1512.5	1510.9	1513.3
10°	1511.7	1512.5	1511.7	1510.9	1510.9	1510.1	1510.1	1507.7	1508.5	1506.0	1507.7
12.5°	1509.3	1508.5	1508.5	1506.8	1505.2	1503.6	1502.8	1500.4	1500.4	1494.7	1497.1
15°	1502.8	1503.6	1501.2	1497.9	1496.3	1492.3	1490.7	1487.4	1484.2	1480.1	1480.9
17.5°	1497.1	1494.7	1491.5	1488.2	1481.7	1478.5	1475.3	1470.4	1468.8	1463.9	1462.3
20°	1480.1	1478.5	1474.5	1468.8	1464.7	1457.4	1454.2	1449.4	1445.3	1440.5	1438.0
22.5°	1458.3	1456.6	1451.8	1446.1	1439.6	1436.4	1433.2	1424.3	1420.2	1415.3	1414.5
25°	1430.7	1428.3	1423.5	1417.0	1413.7	1404.8	1401.6	1395.1	1393.5	1388.6	1387.8
27.5°	1388.6	1385.4	1379.7	1371.6	1366.0	1360.3	1357.1	1352.2	1350.6	1345.7	1344.9
30°	1325.5	1321.4	1310.1	1306.9	1297.1	1291.5	1291.5	1285.0	1285.8	1282.6	1282.6
32.5°	1225.9	1219.4	1210.5	1204.0	1197.5	1194.3	1194.3	1191.9	1193.5	1193.5	1195.1
35°	1093.9	1085.0	1080.1	1076.1	1076.1	1079.3	1089.0	1091.5	1096.3	1100.4	1103.6
37.5°	924.7	923.9	929.5	934.4	946.5	960.3	977.3	991.9	1005.6	1015.4	1025.1
40°	741.7	761.9	778.1	800.8	819.4	846.1	876.9	902.0	925.5	942.5	960.3
42.5°	578.9	604.8	638.9	672.0	705.2	741.7	782.2	817.0	847.8	871.2	889.9
45°	451.0	486.6	527.9	570.0	612.9	658.3	700.4	736.0	768.4	792.7	811.3
47.5°	363.6	402.4	449.4	495.5	544.1	591.9	638.9	669.6	696.3	715.8	732.8
50°	300.4	341.7	391.1	443.7	492.3	540.1	580.6	610.5	632.4	649.4	659.9
52.5°	251.0	294.7	347.4	400.0	448.6	492.3	528.7	551.4	569.2	581.4	591.1
55°	207.3	249.4	298.8	348.2	395.9	437.2	467.2	484.2	498.0	505.2	510.9
57.5°	169.2	208.1	253.4	298.8	340.1	374.1	397.6	414.6	421.0	426.7	425.9
60°	132.8	169.2	210.5	249.4	285.0	312.5	329.6	339.3	344.1	346.6	344.9
62.5°	104.4	137.7	169.2	203.2	229.1	252.6	268.8	268.8	271.2	272.1	274.5
65°	77.7	102.8	130.4	155.5	176.5	191.9	200.8	203.2	206.5	205.7	204.0
67.5°	57.5	76.1	96.3	115.0	129.6	139.3	145.7	151.4	150.6	149.0	148.2
70°	39.7	51.8	69.6	81.0	91.5	101.2	102.8	103.6	104.4	105.3	103.6
72.5°	27.5	36.4	46.2	55.9	62.3	66.4	70.5	71.2	71.2	71.2	70.5
75°	13.8	18.6	27.5	31.6	37.2	38.9	42.1	42.1	44.5	41.3	40.5
77.5°	12.1	14.6	19.4	22.7	25.1	27.5	28.3	30.8	30.0	28.3	29.1
80°	7.3	8.9	12.1	13.8	17.0	17.8	18.6	19.4	18.6	19.4	19.4
82.5°	5.7	6.5	8.1	8.1	10.5	10.5	11.3	11.3	12.1	12.1	12.1
85°	3.2	5.7	4.9	9.7	6.5	6.5	8.1	9.7	8.1	8.1	9.7
87.5°	3.2	3.2	2.4	3.2	3.2	3.2	4.0	4.9	4.9	5.7	4.9
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: P246231

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1508.5	1508.5	1508.5	1508.5
2.5°	1510.9	1512.5	1510.1	1509.3
5°	1513.3	1513.3	1511.7	1511.7
7.5°	1513.3	1513.3	1510.9	1509.3
10°	1506.8	1506.8	1504.4	1502.8
12.5°	1494.7	1494.7	1493.9	1491.5
15°	1479.3	1479.3	1476.1	1473.7
17.5°	1458.3	1459.9	1455.8	1455.8
20°	1435.6	1434.8	1431.6	1429.9
22.5°	1412.1	1410.5	1409.7	1404.8
25°	1387.0	1385.4	1383.0	1380.5
27.5°	1344.1	1343.3	1340.9	1337.6
30°	1278.5	1277.7	1274.5	1274.5
32.5°	1193.5	1192.7	1189.5	1190.3
35°	1105.2	1108.5	1106.9	1103.6
37.5°	1031.6	1034.0	1035.6	1034.0
40°	970.0	977.3	978.1	979.7
42.5°	904.4	914.1	917.4	919.0
45°	825.9	834.8	842.1	840.5
47.5°	745.7	752.2	758.7	753.8
50°	668.8	672.9	675.3	675.3
52.5°	595.9	595.9	595.1	595.9
55°	512.5	512.5	509.3	510.9
57.5°	425.1	426.7	424.3	420.2
60°	344.1	340.1	338.4	336.0
62.5°	268.0	268.0	262.3	269.6
65°	200.8	198.4	195.9	195.1
67.5°	145.7	144.9	142.5	141.7
70°	102.8	99.6	98.8	97.2
72.5°	68.8	68.8	67.2	67.2
75°	42.1	38.1	37.2	38.1
77.5°	29.1	28.3	28.3	27.5
80°	19.4	18.6	20.2	17.8
82.5°	12.1	13.0	12.1	13.0
85°	8.1	9.7	8.9	8.9
87.5°	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)