

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: P245031

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245031
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 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

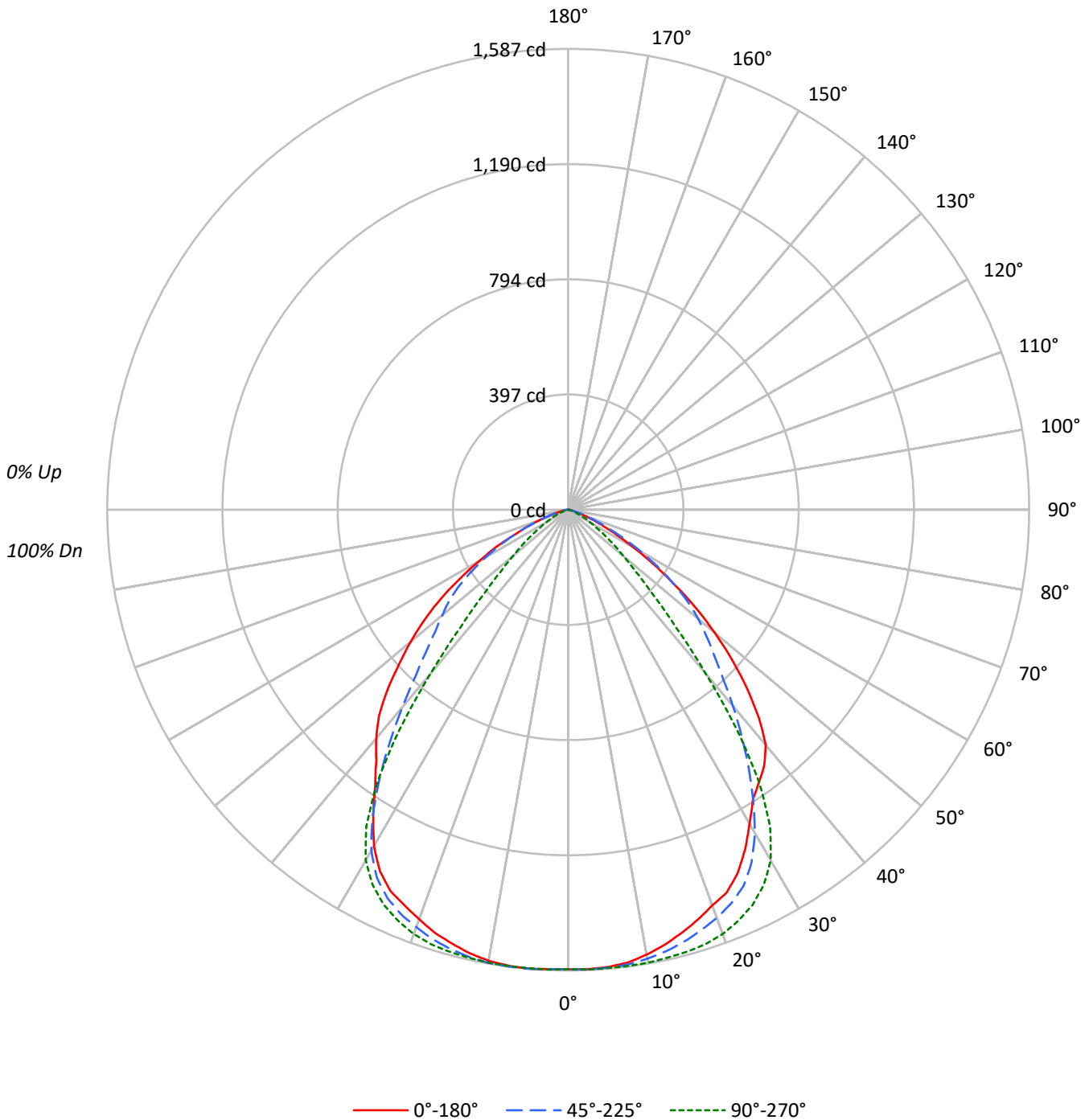
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48811	48811	48811
5°	48917	49050	49102
10°	48712	49589	49376
15°	48170	50316	49364
20°	47592	51021	49239
25°	46974	51080	49287
30°	44441	49643	47617
35°	43114	43144	43596
40°	42581	29687	41385
45°	37940	17823	38459
50°	31547	11859	33994
55°	23660	8177	28822
60°	16035	5452	21746
65°	9675	3532	14943
70°	5364	1911	9187
75°	2431	810	4754
80°	2113	906	3321
85°	2406	1203	3326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	5.0
10°-20°	438.7	14.6
20°-30°	665.9	22.2
30°-40°	699.4	23.3
40°-50°	524.3	17.5
50°-60°	336.4	11.2
60°-70°	143.9	4.8
70°-80°	34.0	1.1
80°-90°	6.3	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°	1255.6	41.9
0°-40°	1955.0	65.2
0°-60°	2815.8	93.9
0°-90°	3000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1583	1583	1583	1583	1583	
5°	1580	1583	1585	1587	1586	150
15°	1509	1540	1576	1566	1546	426
25°	1381	1429	1501	1474	1449	631
35°	1145	1082	1146	1132	1158	719
45°	870	711	409	691	882	666
55°	440	440	152	459	536	399
65°	133	156	48	201	205	142
75°	20	24	7	41	40	30
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°	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9
2.5°	1583.7	1585.4	1584.6	1584.6	1583.7	1584.6	1584.6	1586.3	1586.3	1584.6	1583.7
5°	1580.3	1582.0	1582.0	1580.3	1580.3	1584.6	1582.0	1583.7	1583.7	1582.9	1582.9
7.5°	1572.7	1572.7	1576.1	1573.5	1573.5	1576.1	1575.2	1576.9	1578.6	1579.5	1579.5
10°	1555.7	1557.4	1558.2	1558.2	1559.1	1561.6	1563.3	1566.7	1568.4	1570.1	1571.0
12.5°	1534.4	1537.0	1537.8	1537.0	1539.5	1542.9	1547.2	1551.4	1554.0	1557.4	1559.9
15°	1508.9	1508.9	1510.6	1513.2	1514.9	1520.0	1524.2	1529.3	1536.1	1540.4	1544.6
17.5°	1480.9	1482.6	1485.2	1485.2	1488.6	1497.0	1499.6	1507.2	1514.9	1519.1	1527.6
20°	1450.3	1452.0	1454.6	1456.3	1460.5	1467.3	1472.4	1479.2	1487.7	1495.4	1503.8
22.5°	1426.5	1423.1	1424.8	1426.5	1430.8	1436.7	1442.7	1451.2	1459.7	1467.3	1475.8
25°	1380.6	1381.5	1384.1	1385.7	1390.9	1395.9	1402.7	1412.9	1420.6	1429.1	1438.4
27.5°	1318.6	1319.5	1323.7	1323.7	1328.0	1336.5	1340.7	1349.2	1359.4	1367.9	1379.0
30°	1248.1	1249.8	1249.8	1253.2	1255.7	1260.0	1264.2	1272.7	1277.8	1285.5	1300.8
32.5°	1183.5	1185.2	1184.4	1183.5	1181.0	1180.1	1179.3	1181.0	1182.7	1185.2	1191.2
35°	1145.3	1141.0	1137.7	1131.7	1124.9	1116.4	1108.8	1098.6	1089.2	1081.6	1073.1
37.5°	1108.8	1107.9	1102.8	1094.3	1080.7	1065.4	1047.6	1025.5	1003.4	979.6	956.7
40°	1057.8	1055.2	1051.0	1039.1	1023.8	1005.1	981.3	954.1	918.4	881.9	844.5
42.5°	971.1	972.0	966.9	957.5	943.1	925.2	900.6	870.9	832.6	789.3	740.9
45°	870.0	870.0	868.3	860.7	850.5	836.0	817.3	792.7	755.3	711.1	659.3
47.5°	764.7	765.5	763.0	761.3	757.0	747.7	734.1	715.4	689.1	646.6	594.7
50°	657.6	657.6	661.9	661.0	661.0	657.6	651.7	640.6	617.7	583.7	535.3
52.5°	550.6	552.3	554.8	558.2	562.4	569.2	562.4	557.4	542.9	516.6	474.9
55°	440.1	441.8	446.1	452.0	457.1	463.9	465.6	465.6	457.9	440.1	408.7
57.5°	345.8	343.2	346.7	351.8	358.5	365.3	370.4	376.4	375.5	363.6	338.2
60°	260.0	260.8	263.4	268.5	273.6	279.5	286.3	291.4	294.0	288.0	271.9
62.5°	189.5	189.5	192.9	198.0	200.5	209.0	213.3	215.8	218.3	217.5	207.3
65°	132.6	134.2	135.9	138.5	141.0	146.1	148.7	153.8	155.5	156.3	148.7
67.5°	93.5	90.9	92.6	94.3	96.9	100.3	105.4	105.4	107.9	107.9	102.8
70°	59.5	59.5	60.3	62.9	64.6	65.4	67.1	68.8	71.4	70.5	70.5
72.5°	39.9	39.1	39.9	40.8	41.6	44.2	44.2	45.0	46.7	47.6	44.2
75°	20.4	21.2	22.9	22.1	24.6	22.9	23.8	26.3	25.5	23.8	23.8
77.5°	17.0	17.0	17.0	16.2	17.8	17.8	17.0	18.7	17.8	17.8	17.0
80°	11.9	12.7	11.9	11.0	11.9	11.0	11.0	11.0	11.0	11.0	10.2
82.5°	9.4	7.7	8.5	7.7	8.5	8.5	7.7	6.8	6.8	7.7	6.8
85°	6.8	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
87.5°	4.2	2.6	2.6	2.6	3.4	3.4	3.4	2.6	3.4	3.4	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°	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9
2.5°	1585.4	1584.6	1586.3	1585.4	1585.4	1584.6	1585.4	1584.6	1586.3	1582.9	1583.7
5°	1585.4	1583.7	1584.6	1585.4	1586.3	1584.6	1584.6	1584.6	1586.3	1584.6	1585.4
7.5°	1582.0	1581.2	1583.7	1585.4	1584.6	1583.7	1585.4	1584.6	1586.3	1585.4	1587.1
10°	1575.2	1576.1	1577.8	1580.3	1581.2	1582.0	1583.7	1583.7	1586.3	1582.9	1584.6
12.5°	1565.0	1568.4	1572.7	1574.4	1577.8	1577.8	1579.5	1580.3	1582.0	1581.2	1583.7
15°	1552.3	1556.5	1561.6	1565.9	1570.1	1572.7	1575.2	1576.1	1578.6	1576.1	1576.9
17.5°	1537.0	1542.1	1549.7	1554.8	1561.6	1564.2	1567.6	1569.3	1571.8	1570.1	1571.0
20°	1515.7	1521.7	1530.2	1537.8	1542.1	1548.0	1552.3	1554.8	1556.5	1554.8	1555.7
22.5°	1486.0	1494.5	1505.5	1511.5	1520.0	1525.1	1525.9	1531.9	1536.1	1531.9	1533.6
25°	1451.2	1459.7	1468.2	1480.9	1488.6	1494.5	1500.5	1501.3	1505.5	1504.7	1503.8
27.5°	1393.4	1404.4	1418.9	1429.1	1439.3	1448.6	1455.4	1457.1	1461.4	1459.7	1460.5
30°	1314.4	1326.3	1339.9	1356.0	1370.5	1379.8	1388.3	1394.2	1398.5	1395.9	1395.1
32.5°	1202.2	1214.1	1228.6	1244.7	1261.7	1275.3	1285.5	1293.1	1298.2	1296.5	1292.3
35°	1073.9	1077.3	1086.7	1099.4	1113.9	1128.3	1137.7	1146.1	1152.1	1153.8	1153.8
37.5°	942.2	931.2	924.4	924.4	932.9	938.8	947.3	952.4	961.8	965.2	967.7
40°	814.8	789.3	765.5	747.7	735.8	734.9	734.9	737.5	746.0	757.0	767.2
42.5°	700.9	660.2	623.6	590.5	566.7	553.1	547.2	548.0	554.8	565.0	582.0
45°	610.0	559.1	513.2	473.2	441.0	419.7	409.5	408.7	413.8	425.7	444.4
47.5°	539.5	485.1	433.3	387.4	352.6	329.7	317.8	314.4	317.8	328.8	350.9
50°	480.9	424.8	371.3	323.7	286.3	262.5	251.5	247.2	251.5	260.8	282.9
52.5°	426.5	368.7	318.6	272.7	232.8	212.4	200.5	198.0	200.5	211.5	229.4
55°	363.6	314.4	265.1	219.2	184.4	164.0	154.6	152.1	154.6	164.8	183.5
57.5°	301.6	259.1	215.8	174.2	144.4	126.6	118.1	114.7	120.6	127.4	149.5
60°	243.8	209.9	173.3	136.8	112.2	96.0	89.2	88.4	90.1	98.6	113.8
62.5°	191.2	163.1	134.2	104.5	84.1	77.3	68.8	68.0	69.7	74.8	86.7
65°	137.6	119.8	97.7	76.5	60.3	51.0	47.6	48.4	50.1	53.5	64.6
67.5°	96.0	83.3	68.0	53.5	41.6	37.4	34.0	33.1	34.0	39.9	45.9
70°	64.6	56.9	45.9	40.8	28.9	22.9	23.8	21.2	24.6	24.6	29.7
72.5°	42.5	37.4	30.6	23.8	20.4	16.2	16.2	15.3	17.0	17.8	22.1
75°	22.1	17.0	17.0	11.9	8.5	4.2	7.7	6.8	5.9	6.8	8.5
77.5°	15.3	12.7	11.9	9.4	8.5	6.8	6.8	6.8	6.8	7.7	8.5
80°	9.4	9.4	6.8	5.9	5.1	4.2	5.1	5.1	5.1	5.1	5.9
82.5°	5.9	5.1	5.1	4.2	4.2	3.4	3.4	3.4	3.4	3.4	5.1
85°	5.1	3.4	3.4	2.6	3.4	5.9	2.6	3.4	3.4	3.4	2.6
87.5°	1.7	2.6	2.6	2.6	1.7	0.9	1.7	2.6	2.6	4.2	3.4
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°	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9	1582.9
2.5°	1585.4	1586.3	1586.3	1585.4	1585.4	1583.7	1587.1	1584.6	1585.4	1588.8	1586.3
5°	1587.1	1588.0	1588.0	1587.1	1587.1	1587.1	1588.0	1588.0	1587.1	1586.3	1588.0
7.5°	1590.5	1589.7	1589.7	1588.0	1588.0	1586.3	1588.0	1585.4	1587.1	1585.4	1588.0
10°	1586.3	1587.1	1586.3	1585.4	1585.4	1584.6	1584.6	1582.0	1582.9	1580.3	1582.0
12.5°	1583.7	1582.9	1582.9	1581.2	1579.5	1577.8	1576.9	1574.4	1574.4	1568.4	1571.0
15°	1576.9	1577.8	1575.2	1571.8	1570.1	1565.9	1564.2	1560.8	1557.4	1553.1	1554.0
17.5°	1571.0	1568.4	1565.0	1561.6	1554.8	1551.4	1548.0	1542.9	1541.2	1536.1	1534.4
20°	1553.1	1551.4	1547.2	1541.2	1537.0	1529.3	1525.9	1520.8	1516.6	1511.5	1508.9
22.5°	1530.2	1528.5	1523.4	1517.4	1510.6	1507.2	1503.8	1494.5	1490.2	1485.2	1484.3
25°	1501.3	1498.7	1493.7	1486.9	1483.4	1474.1	1470.7	1463.9	1462.2	1457.1	1456.3
27.5°	1457.1	1453.7	1447.8	1439.3	1433.3	1427.4	1424.0	1418.9	1417.2	1412.1	1411.2
30°	1390.9	1386.6	1374.7	1371.3	1361.1	1355.2	1355.2	1348.4	1349.2	1345.8	1345.8
32.5°	1286.3	1279.5	1270.2	1263.4	1256.6	1253.2	1253.2	1250.6	1252.4	1252.4	1254.1
35°	1147.8	1138.5	1133.4	1129.2	1129.2	1132.5	1142.8	1145.3	1150.4	1154.6	1158.1
37.5°	970.3	969.4	975.4	980.5	993.2	1007.7	1025.5	1040.8	1055.2	1065.4	1075.6
40°	778.3	799.5	816.5	840.3	859.8	887.9	920.1	946.5	971.1	989.0	1007.7
42.5°	607.5	634.7	670.4	705.2	740.0	778.3	820.8	857.3	889.6	914.2	933.7
45°	473.2	510.6	554.0	598.1	643.2	690.8	734.9	772.3	806.3	831.8	851.3
47.5°	381.5	422.3	471.5	520.0	571.0	621.1	670.4	702.6	730.7	751.1	768.9
50°	315.2	358.5	410.4	465.6	516.6	566.7	609.2	640.6	663.6	681.4	692.4
52.5°	263.4	309.3	364.5	419.7	470.7	516.6	554.8	578.6	597.3	610.0	620.2
55°	217.5	261.7	313.5	365.3	415.5	458.8	490.2	508.1	522.5	530.2	536.1
57.5°	177.6	218.3	265.9	313.5	356.8	392.5	417.2	435.0	441.8	447.8	446.9
60°	139.3	177.6	220.9	261.7	299.1	327.9	345.8	356.0	361.1	363.6	361.9
62.5°	109.6	144.4	177.6	213.3	240.4	265.1	282.1	282.1	284.6	285.5	288.0
65°	81.6	107.9	136.8	163.1	185.2	201.4	210.7	213.3	216.7	215.8	214.1
67.5°	60.3	79.9	101.1	120.6	135.9	146.1	152.9	158.9	158.0	156.3	155.5
70°	41.6	54.4	73.1	85.0	96.0	106.2	107.9	108.7	109.6	110.5	108.7
72.5°	28.9	38.2	48.4	58.6	65.4	69.7	73.9	74.8	74.8	74.8	73.9
75°	14.4	19.5	28.9	33.1	39.1	40.8	44.2	44.2	46.7	43.3	42.5
77.5°	12.7	15.3	20.4	23.8	26.3	28.9	29.7	32.3	31.4	29.7	30.6
80°	7.7	9.4	12.7	14.4	17.8	18.7	19.5	20.4	19.5	20.4	20.4
82.5°	5.9	6.8	8.5	8.5	11.0	11.0	11.9	11.9	12.7	12.7	12.7
85°	3.4	5.9	5.1	10.2	6.8	6.8	8.5	10.2	8.5	8.5	10.2
87.5°	3.4	3.4	2.6	3.4	3.4	3.4	4.2	5.1	5.1	5.9	5.1
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: P245031

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1582.9	1582.9	1582.9	1582.9
2.5°	1585.4	1587.1	1584.6	1583.7
5°	1588.0	1588.0	1586.3	1586.3
7.5°	1588.0	1588.0	1585.4	1583.7
10°	1581.2	1581.2	1578.6	1576.9
12.5°	1568.4	1568.4	1567.6	1565.0
15°	1552.3	1552.3	1548.9	1546.3
17.5°	1530.2	1531.9	1527.6	1527.6
20°	1506.4	1505.5	1502.2	1500.5
22.5°	1481.8	1480.1	1479.2	1474.1
25°	1455.4	1453.7	1451.2	1448.6
27.5°	1410.4	1409.5	1407.0	1403.6
30°	1341.6	1340.7	1337.3	1337.3
32.5°	1252.4	1251.5	1248.1	1249.0
35°	1159.7	1163.1	1161.4	1158.1
37.5°	1082.4	1085.0	1086.7	1085.0
40°	1017.9	1025.5	1026.4	1028.1
42.5°	949.0	959.2	962.6	964.3
45°	866.6	876.0	883.6	881.9
47.5°	782.5	789.3	796.1	791.0
50°	701.8	706.0	708.6	708.6
52.5°	625.3	625.3	624.5	625.3
55°	537.8	537.8	534.4	536.1
57.5°	446.1	447.8	445.2	441.0
60°	361.1	356.8	355.1	352.6
62.5°	281.2	281.2	275.3	282.9
65°	210.7	208.2	205.6	204.8
67.5°	152.9	152.1	149.5	148.7
70°	107.9	104.5	103.7	101.9
72.5°	72.2	72.2	70.5	70.5
75°	44.2	39.9	39.1	39.9
77.5°	30.6	29.7	29.7	28.9
80°	20.4	19.5	21.2	18.7
82.5°	12.7	13.6	12.7	13.6
85°	8.5	10.2	9.4	9.4
87.5°	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)