

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: P244185

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244185
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 EC8B30850 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3292.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

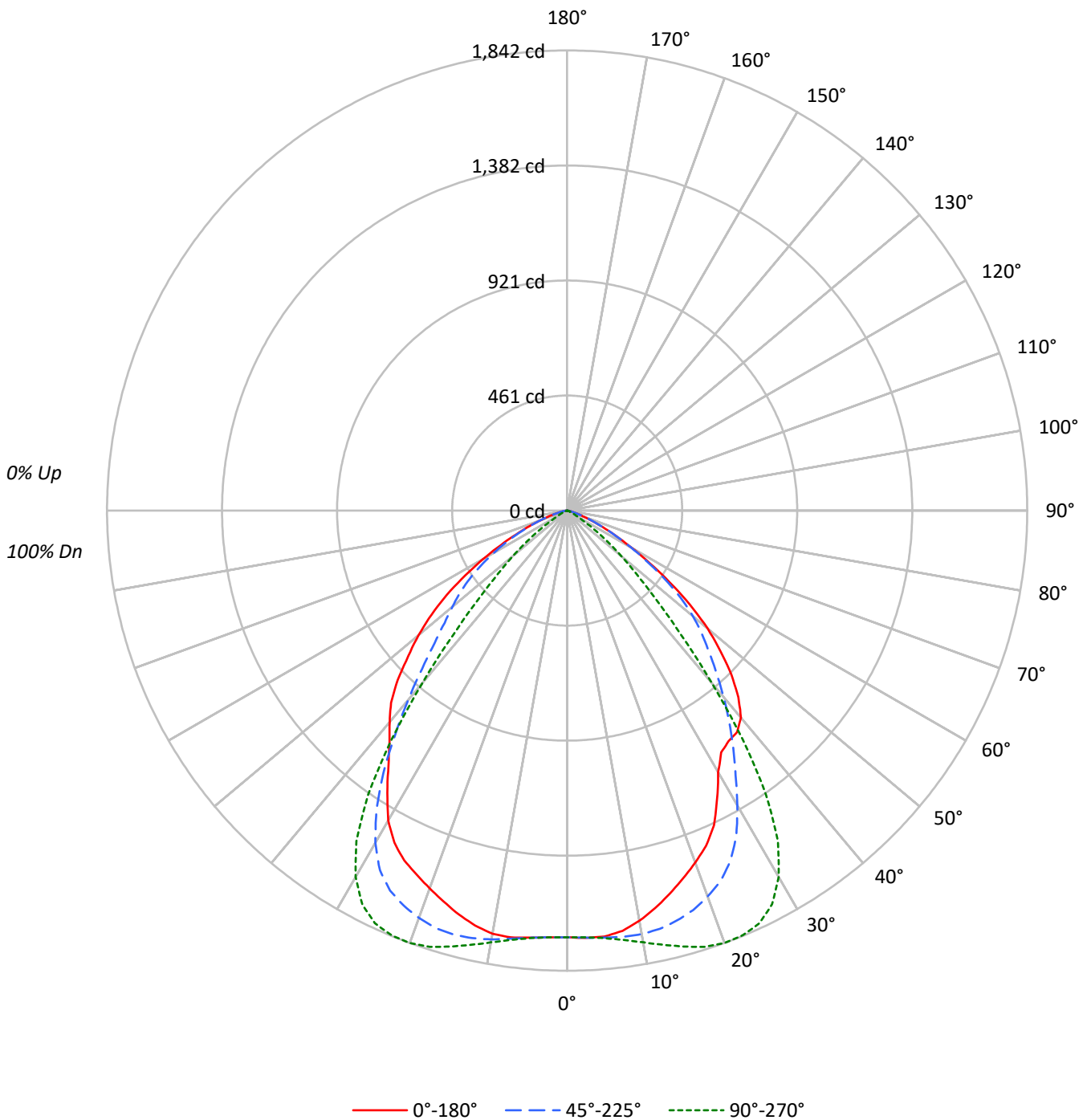
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52662	52662	52662
5°	52975	53173	53114
10°	52197	54949	53872
15°	50670	57674	53447
20°	49200	60443	52800
25°	47311	61992	52554
30°	43056	60293	50996
35°	42414	52243	46920
40°	43567	36233	44481
45°	40556	21901	41826
50°	35178	13524	37265
55°	26999	7064	31628
60°	18391	2849	23873
65°	11441	1452	16468
70°	6212	902	10053
75°	3241	429	5945
80°	1456	479	3214
85°	955	318	2901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	5.0
10°-20°	486.5	14.8
20°-30°	742.2	22.5
30°-40°	774.5	23.5
40°-50°	581.8	17.7
50°-60°	358.0	10.9
60°-70°	145.7	4.4
70°-80°	34.3	1.0
80°-90°	4.7	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°	1393.0	42.3
0°-40°	2167.5	65.8
0°-60°	3107.3	94.4
0°-90°	3292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1708	1708	1708	1708	1708	
5°	1711	1716	1718	1716	1716	162
15°	1587	1699	1807	1757	1674	447
25°	1390	1546	1822	1678	1545	632
35°	1127	1158	1388	1283	1246	711
45°	930	805	502	750	959	710
55°	502	477	131	477	588	451
65°	157	159	20	213	226	164
75°	27	27	4	48	50	33
85°	3	3	1	6	8	4
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°	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8
2.5°	1712.3	1709.6	1712.3	1712.3	1713.2	1711.4	1712.3	1713.2	1711.4	1711.4	1711.4
5°	1711.4	1709.6	1711.4	1710.5	1712.3	1712.3	1714.1	1714.1	1715.9	1715.9	1718.7
7.5°	1696.9	1693.3	1696.9	1699.6	1701.4	1705.1	1709.6	1713.2	1716.8	1720.5	1725.0
10°	1667.0	1667.0	1669.7	1675.1	1680.6	1686.9	1695.1	1704.2	1713.2	1721.4	1729.5
12.5°	1629.8	1627.1	1632.5	1639.8	1648.0	1657.9	1670.6	1684.2	1698.7	1715.0	1727.7
15°	1587.2	1584.5	1590.8	1598.1	1608.1	1622.6	1638.0	1656.1	1677.0	1698.7	1719.6
17.5°	1543.7	1542.8	1549.1	1559.1	1567.3	1582.7	1602.6	1624.4	1648.0	1677.0	1704.2
20°	1499.3	1498.4	1504.7	1512.9	1523.8	1538.3	1558.2	1583.6	1611.7	1644.3	1676.1
22.5°	1453.1	1454.0	1459.4	1468.5	1477.5	1492.9	1513.8	1539.2	1570.0	1605.3	1640.7
25°	1390.5	1386.0	1393.2	1402.3	1417.7	1430.4	1450.4	1477.5	1509.3	1546.4	1588.1
27.5°	1299.9	1299.0	1305.3	1313.5	1327.1	1342.5	1364.2	1392.3	1425.9	1466.7	1507.4
30°	1209.2	1211.0	1213.8	1221.9	1231.0	1246.4	1268.1	1291.7	1323.4	1362.4	1405.9
32.5°	1147.6	1147.6	1151.2	1156.7	1163.0	1171.2	1186.6	1203.8	1228.3	1255.5	1287.2
35°	1126.7	1123.1	1126.7	1127.6	1128.5	1130.4	1133.1	1138.5	1146.7	1158.5	1170.2
37.5°	1117.7	1115.0	1115.0	1111.3	1106.8	1101.4	1094.1	1085.9	1076.9	1065.1	1056.0
40°	1082.3	1080.5	1078.7	1075.1	1065.1	1054.2	1042.4	1023.4	1002.5	973.5	944.5
42.5°	1014.3	1012.5	1011.6	1004.4	995.3	982.6	969.0	949.1	922.8	885.6	843.9
45°	930.0	926.4	923.7	917.4	911.0	900.1	887.4	869.3	843.0	804.9	755.1
47.5°	832.1	830.3	829.4	826.7	820.4	814.0	805.9	791.4	767.8	731.5	679.9
50°	733.3	729.7	731.5	730.6	727.9	723.4	717.9	708.0	689.8	657.2	610.1
52.5°	620.0	620.0	619.1	621.8	622.7	621.8	622.7	611.9	596.5	572.0	532.1
55°	502.2	502.2	504.9	508.5	512.2	513.1	512.2	507.6	496.7	476.8	441.4
57.5°	391.6	389.8	395.2	400.7	404.3	407.9	405.2	401.6	395.2	378.9	351.7
60°	298.2	298.2	301.8	305.5	309.1	312.7	311.8	310.9	305.5	294.6	272.9
62.5°	219.4	220.3	220.3	223.0	226.6	230.2	233.0	230.2	227.5	220.3	205.8
65°	156.8	155.9	156.8	159.5	162.3	165.9	167.7	166.8	164.1	158.6	147.8
67.5°	105.2	104.2	107.9	108.8	110.6	114.2	113.3	114.2	113.3	108.8	99.7
70°	68.9	67.1	68.9	68.0	70.7	71.6	73.4	74.3	73.4	70.7	68.0
72.5°	42.6	41.7	42.6	43.5	44.4	45.3	47.1	47.1	46.2	44.4	40.8
75°	27.2	24.5	25.4	23.6	25.4	25.4	27.2	28.1	27.2	27.2	25.4
77.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	17.2	18.1	16.3	15.4
80°	8.2	8.2	9.1	9.1	9.1	10.0	9.1	9.1	9.1	10.0	7.3
82.5°	6.3	5.4	5.4	5.4	6.3	5.4	5.4	5.4	5.4	5.4	5.4
85°	2.7	3.6	2.7	1.8	2.7	2.7	3.6	2.7	2.7	2.7	3.6
87.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.8	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°	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8
2.5°	1712.3	1710.5	1710.5	1709.6	1711.4	1709.6	1710.5	1709.6	1709.6	1711.4	1709.6
5°	1718.7	1719.6	1717.8	1716.8	1719.6	1719.6	1719.6	1717.8	1717.8	1718.7	1717.8
7.5°	1727.7	1729.5	1730.4	1731.4	1733.2	1734.1	1734.1	1733.2	1732.3	1735.0	1731.4
10°	1737.7	1740.4	1745.9	1748.6	1753.1	1753.1	1754.9	1754.9	1753.1	1754.9	1754.0
12.5°	1734.1	1750.4	1759.5	1765.8	1772.1	1777.6	1779.4	1780.3	1779.4	1783.0	1779.4
15°	1740.4	1754.0	1768.5	1779.4	1791.2	1797.5	1799.3	1806.6	1808.4	1809.3	1803.9
17.5°	1730.4	1754.9	1770.3	1786.6	1803.9	1815.7	1826.5	1831.1	1832.0	1833.8	1826.5
20°	1707.8	1735.0	1758.5	1782.1	1802.1	1820.2	1829.3	1841.9	1838.3	1845.6	1835.6
22.5°	1677.0	1707.8	1737.7	1768.5	1789.4	1811.1	1830.2	1839.2	1843.8	1843.8	1832.9
25°	1628.0	1664.3	1696.9	1728.6	1760.4	1786.6	1808.4	1822.0	1824.7	1823.8	1811.1
27.5°	1551.9	1590.8	1628.9	1665.2	1704.2	1735.0	1760.4	1776.7	1781.2	1781.2	1767.6
30°	1446.7	1488.4	1525.6	1569.1	1609.0	1643.4	1678.8	1693.3	1701.4	1701.4	1686.0
32.5°	1321.6	1357.0	1391.4	1434.0	1477.5	1516.5	1550.1	1570.0	1580.0	1579.1	1565.5
35°	1185.7	1202.9	1229.2	1260.9	1299.9	1336.1	1368.8	1387.8	1405.0	1404.1	1391.4
37.5°	1049.7	1045.2	1047.9	1059.7	1084.1	1109.5	1134.9	1153.0	1167.5	1173.9	1171.2
40°	916.4	892.9	870.2	862.1	863.9	872.9	886.5	900.1	916.4	924.6	928.2
42.5°	796.8	756.9	717.0	687.1	669.9	664.4	670.8	675.3	685.3	697.1	708.9
45°	700.7	647.2	594.6	548.4	519.4	502.2	498.6	502.2	507.6	519.4	534.8
47.5°	621.8	559.3	500.4	448.7	406.1	383.4	377.1	375.3	380.7	391.6	412.4
50°	552.0	489.5	424.2	364.4	320.0	294.6	285.5	281.9	288.2	296.4	315.4
52.5°	475.9	414.3	347.2	289.2	242.9	216.7	206.7	201.2	204.9	215.7	234.8
55°	393.4	336.3	275.6	215.7	171.3	146.9	135.1	131.4	135.1	146.9	165.9
57.5°	310.9	262.9	212.1	155.9	116.0	91.6	79.8	76.1	86.1	90.6	110.6
60°	242.9	204.0	160.4	114.2	79.8	60.7	49.0	46.2	50.8	58.9	75.2
62.5°	182.2	157.7	123.3	81.6	58.9	39.0	32.6	29.9	32.6	39.0	51.7
65°	132.3	113.3	86.1	59.8	39.9	29.0	21.8	19.9	22.7	27.2	38.1
67.5°	90.6	76.1	59.8	41.7	27.2	18.1	15.4	15.4	16.3	19.9	28.1
70°	58.9	49.9	38.1	27.2	18.1	13.6	11.8	10.0	11.8	14.5	19.0
72.5°	37.2	31.7	24.5	19.0	13.6	10.0	8.2	7.3	9.1	10.9	14.5
75°	22.7	17.2	12.7	10.0	7.3	7.3	7.3	3.6	4.5	7.3	9.1
77.5°	13.6	11.8	10.0	8.2	6.3	3.6	3.6	3.6	4.5	5.4	8.2
80°	7.3	6.3	4.5	4.5	3.6	2.7	3.6	2.7	1.8	4.5	5.4
82.5°	4.5	3.6	3.6	3.6	4.5	1.8	2.7	1.8	2.7	3.6	2.7
85°	2.7	2.7	2.7	1.8	4.5	1.8	1.8	0.9	0.9	1.8	1.8
87.5°	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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°	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8	1707.8
2.5°	1710.5	1709.6	1710.5	1709.6	1709.6	1709.6	1710.5	1710.5	1709.6	1709.6	1711.4
5°	1717.8	1717.8	1717.8	1716.8	1715.9	1715.9	1717.8	1717.8	1715.0	1717.8	1717.8
7.5°	1733.2	1730.4	1733.2	1729.5	1727.7	1728.6	1729.5	1727.7	1725.9	1726.8	1726.8
10°	1753.1	1750.4	1750.4	1747.7	1744.9	1743.1	1741.3	1736.8	1732.3	1731.4	1727.7
12.5°	1776.7	1772.1	1769.4	1764.0	1759.5	1753.1	1747.7	1740.4	1731.4	1725.0	1718.7
15°	1800.2	1793.0	1786.6	1777.6	1767.6	1756.7	1744.9	1733.2	1718.7	1706.0	1695.1
17.5°	1819.3	1809.3	1797.5	1783.0	1768.5	1752.2	1735.0	1717.8	1696.9	1680.6	1667.9
20°	1825.6	1811.1	1795.7	1776.7	1757.6	1735.0	1713.2	1690.6	1667.0	1649.8	1635.3
22.5°	1817.5	1800.2	1781.2	1761.3	1735.9	1711.4	1686.0	1659.7	1638.9	1615.3	1601.7
25°	1794.8	1774.0	1753.1	1729.5	1705.1	1677.9	1650.7	1623.5	1598.1	1585.4	1568.2
27.5°	1748.6	1725.9	1703.2	1678.8	1650.7	1623.5	1595.4	1569.1	1547.3	1530.1	1520.2
30°	1667.0	1640.7	1614.4	1588.1	1563.6	1535.5	1509.3	1487.5	1465.7	1452.2	1442.2
32.5°	1541.9	1518.3	1492.1	1466.7	1444.0	1420.4	1398.7	1379.6	1364.2	1355.2	1347.9
35°	1373.3	1349.7	1329.8	1311.7	1292.6	1282.7	1269.1	1258.2	1251.8	1248.2	1247.3
37.5°	1161.2	1147.6	1141.2	1137.6	1134.0	1131.3	1133.1	1137.6	1141.2	1147.6	1154.8
40°	934.6	946.3	950.0	962.7	974.4	989.9	1007.1	1027.0	1043.3	1064.2	1078.7
42.5°	727.9	749.7	775.0	802.2	831.2	859.3	893.8	925.5	954.5	980.8	1003.5
45°	559.3	592.8	630.9	669.9	708.9	749.7	791.4	830.3	864.8	892.9	916.4
47.5°	436.0	473.2	522.1	570.2	617.3	665.3	711.6	752.4	781.4	808.6	829.4
50°	345.4	388.0	441.4	496.7	548.4	599.2	648.1	686.2	715.2	737.0	752.4
52.5°	267.4	318.2	372.6	430.6	485.9	541.2	586.5	621.8	645.4	664.4	676.2
55°	199.4	249.3	307.3	367.1	423.3	476.8	519.4	550.2	571.1	582.0	588.3
57.5°	144.1	189.5	247.5	307.3	358.0	408.8	443.3	471.4	483.1	489.5	492.2
60°	105.2	146.9	198.5	250.2	298.2	339.0	368.9	388.0	397.0	400.7	399.7
62.5°	77.1	113.3	157.7	201.2	240.2	273.7	297.3	310.0	314.6	316.3	313.6
65°	58.9	87.0	125.1	158.6	188.5	213.0	230.2	238.4	241.1	240.2	238.4
67.5°	43.5	65.3	93.4	118.8	140.5	159.5	168.6	175.9	177.7	175.0	172.2
70°	30.8	48.0	68.0	85.2	101.5	112.4	122.4	123.3	123.3	122.4	120.6
72.5°	21.8	33.5	46.2	58.0	68.0	76.1	79.8	82.5	81.6	80.7	78.9
75°	14.5	20.8	33.5	36.3	45.3	48.0	51.7	51.7	52.6	49.9	49.9
77.5°	9.1	14.5	19.9	23.6	27.2	30.8	32.6	32.6	33.5	32.6	32.6
80°	5.4	9.1	10.9	16.3	16.3	19.0	19.9	20.8	19.0	21.8	19.0
82.5°	3.6	5.4	8.2	8.2	10.0	11.8	11.8	12.7	12.7	11.8	11.8
85°	2.7	3.6	4.5	5.4	5.4	6.3	5.4	5.4	6.3	7.3	6.3
87.5°	0.9	1.8	0.9	1.8	1.8	3.6	2.7	2.7	2.7	3.6	3.6
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: P244185

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1707.8	1707.8	1707.8	1707.8
2.5°	1709.6	1710.5	1709.6	1709.6
5°	1717.8	1716.8	1717.8	1715.9
7.5°	1724.1	1724.1	1723.2	1723.2
10°	1724.1	1720.5	1720.5	1720.5
12.5°	1710.5	1706.0	1703.2	1701.4
15°	1686.9	1678.8	1675.1	1674.2
17.5°	1656.1	1648.9	1644.3	1641.6
20°	1620.8	1613.5	1608.1	1609.0
22.5°	1589.9	1581.8	1578.2	1576.3
25°	1559.1	1549.1	1546.4	1544.6
27.5°	1509.3	1503.8	1501.1	1498.4
30°	1433.1	1430.4	1425.9	1432.2
32.5°	1345.2	1340.7	1337.0	1339.8
35°	1248.2	1245.5	1248.2	1246.4
37.5°	1159.4	1162.1	1165.7	1167.5
40°	1089.6	1099.5	1103.2	1105.0
42.5°	1019.8	1031.6	1038.8	1043.3
45°	933.7	945.4	953.6	959.1
47.5°	844.8	854.8	862.9	862.1
50°	764.2	769.6	773.2	776.8
52.5°	682.6	682.6	683.5	683.5
55°	590.1	588.3	587.4	588.3
57.5°	488.6	486.8	485.9	483.1
60°	396.1	390.7	387.1	387.1
62.5°	310.0	303.7	301.0	300.0
65°	233.0	232.0	226.6	225.7
67.5°	168.6	165.0	161.4	162.3
70°	118.8	113.3	113.3	111.5
72.5°	77.1	74.3	73.4	73.4
75°	48.0	48.0	46.2	49.9
77.5°	31.7	31.7	30.8	31.7
80°	19.0	19.0	19.0	18.1
82.5°	11.8	12.7	11.8	11.8
85°	6.3	7.3	5.4	8.2
87.5°	3.6	4.5	3.6	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)