

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: P245481

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245481
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 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

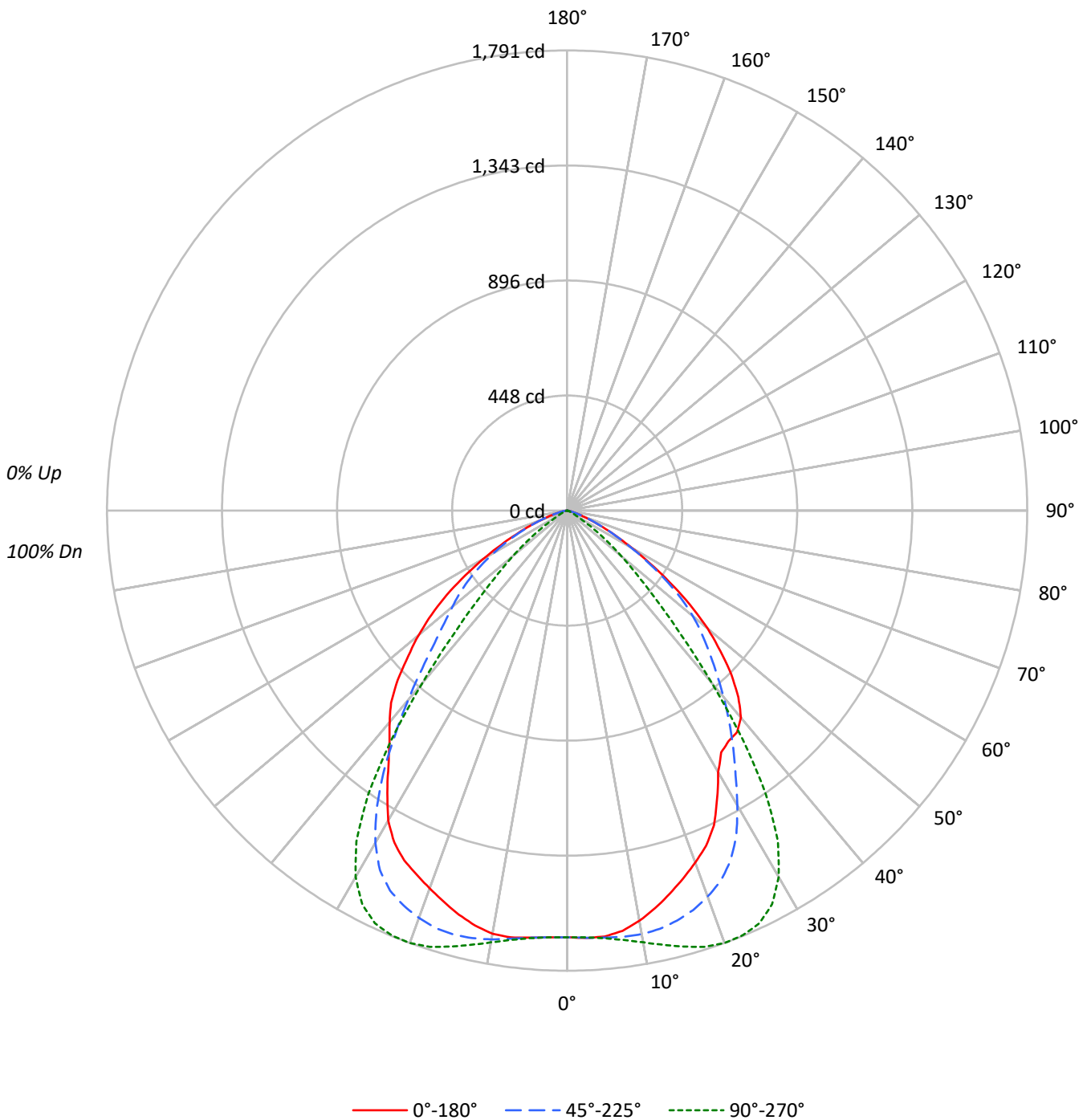
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51207	51207	51207
5°	51511	51703	51647
10°	50754	53431	52382
15°	49272	56078	51972
20°	47841	58772	51340
25°	46004	60277	51101
30°	41866	58626	49586
35°	41243	50797	45621
40°	42363	35230	43249
45°	39436	21294	40666
50°	34209	13149	36239
55°	26252	6871	30752
60°	17885	2769	23214
65°	11127	1416	16016
70°	6041	875	9773
75°	3145	417	5778
80°	1403	479	3125
85°	955	318	2795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	5.0
10°-20°	473.1	14.8
20°-30°	721.7	22.5
30°-40°	753.1	23.5
40°-50°	565.7	17.7
50°-60°	348.1	10.9
60°-70°	141.6	4.4
70°-80°	33.4	1.0
80°-90°	4.6	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°	1354.5	42.3
0°-40°	2107.6	65.8
0°-60°	3021.4	94.4
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1661	1661	1661	1661	1661	
5°	1664	1668	1670	1668	1668	157
15°	1543	1652	1757	1708	1628	435
25°	1352	1504	1772	1632	1502	615
35°	1096	1126	1349	1247	1212	692
45°	904	783	488	729	932	690
55°	488	464	128	464	572	439
65°	152	154	19	207	220	159
75°	26	26	4	47	48	32
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°	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6
2.5°	1665.0	1662.3	1665.0	1665.0	1665.9	1664.1	1665.0	1665.9	1664.1	1664.1	1664.1
5°	1664.1	1662.3	1664.1	1663.2	1665.0	1665.0	1666.8	1666.8	1668.5	1668.5	1671.2
7.5°	1650.0	1646.5	1650.0	1652.7	1654.4	1657.9	1662.3	1665.9	1669.4	1672.9	1677.3
10°	1620.9	1620.9	1623.6	1628.8	1634.1	1640.3	1648.2	1657.1	1665.9	1673.8	1681.7
12.5°	1584.8	1582.1	1587.4	1594.5	1602.4	1612.1	1624.4	1637.7	1651.8	1667.6	1680.0
15°	1543.4	1540.7	1546.9	1553.9	1563.6	1577.7	1592.7	1610.3	1630.6	1651.8	1672.0
17.5°	1501.0	1500.2	1506.3	1516.0	1524.0	1538.9	1558.3	1579.5	1602.4	1630.6	1657.1
20°	1457.9	1457.0	1463.1	1471.1	1481.6	1495.8	1515.1	1539.8	1567.1	1598.9	1629.7
22.5°	1412.9	1413.8	1419.1	1427.9	1436.7	1451.7	1471.9	1496.6	1526.6	1561.0	1595.3
25°	1352.1	1347.7	1354.7	1363.5	1378.5	1390.9	1410.3	1436.7	1467.5	1503.7	1544.2
27.5°	1263.9	1263.1	1269.2	1277.2	1290.4	1305.4	1326.5	1353.8	1386.5	1426.1	1465.8
30°	1175.8	1177.6	1180.2	1188.1	1196.9	1211.9	1233.1	1256.0	1286.9	1324.8	1367.1
32.5°	1115.9	1115.9	1119.4	1124.7	1130.8	1138.8	1153.8	1170.5	1194.3	1220.8	1251.6
35°	1095.6	1092.1	1095.6	1096.5	1097.4	1099.1	1101.8	1107.1	1115.0	1126.4	1137.9
37.5°	1086.8	1084.1	1084.1	1080.6	1076.2	1070.9	1063.9	1055.9	1047.1	1035.7	1026.9
40°	1052.4	1050.6	1048.9	1045.4	1035.7	1025.1	1013.6	995.1	974.8	946.6	918.4
42.5°	986.3	984.5	983.7	976.6	967.8	955.4	942.2	922.8	897.3	861.1	820.6
45°	904.3	900.8	898.2	892.0	885.8	875.2	862.9	845.3	819.7	782.7	734.2
47.5°	809.1	807.4	806.5	803.9	797.7	791.5	783.6	769.5	746.6	711.3	661.1
50°	713.1	709.5	711.3	710.4	707.8	703.4	698.1	688.4	670.7	639.0	593.2
52.5°	602.9	602.9	602.0	604.6	605.5	604.6	605.5	595.0	580.0	556.2	517.4
55°	488.3	488.3	490.9	494.5	498.0	498.9	498.0	493.6	483.0	463.6	429.2
57.5°	380.8	379.0	384.3	389.6	393.1	396.6	394.0	390.5	384.3	368.4	342.0
60°	290.0	290.0	293.5	297.0	300.6	304.1	303.2	302.3	297.0	286.4	265.3
62.5°	213.3	214.2	214.2	216.8	220.3	223.9	226.5	223.9	221.2	214.2	200.1
65°	152.5	151.6	152.5	155.1	157.8	161.3	163.1	162.2	159.5	154.2	143.7
67.5°	102.2	101.4	104.9	105.8	107.5	111.1	110.2	111.1	110.2	105.8	97.0
70°	67.0	65.2	67.0	66.1	68.8	69.6	71.4	72.3	71.4	68.8	66.1
72.5°	41.4	40.5	41.4	42.3	43.2	44.1	45.8	45.8	44.9	43.2	39.7
75°	26.4	23.8	24.7	22.9	24.7	24.7	26.4	27.3	26.4	26.4	24.7
77.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	16.8	17.6	15.9	15.0
80°	7.9	7.9	8.8	8.8	8.8	9.7	8.8	8.8	8.8	9.7	7.1
82.5°	6.2	5.3	5.3	5.3	6.2	5.3	5.3	5.3	5.3	5.3	5.3
85°	2.7	3.5	2.7	1.8	2.7	2.7	3.5	2.7	2.7	2.7	3.5
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°	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6
2.5°	1665.0	1663.2	1663.2	1662.3	1664.1	1662.3	1663.2	1662.3	1662.3	1664.1	1662.3
5°	1671.2	1672.0	1670.3	1669.4	1672.0	1672.0	1672.0	1670.3	1670.3	1671.2	1670.3
7.5°	1680.0	1681.7	1682.6	1683.5	1685.3	1686.1	1686.1	1685.3	1684.4	1687.0	1683.5
10°	1689.7	1692.3	1697.6	1700.2	1704.6	1704.6	1706.4	1706.4	1704.6	1706.4	1705.5
12.5°	1686.1	1702.0	1710.8	1717.0	1723.2	1728.4	1730.2	1731.1	1730.2	1733.7	1730.2
15°	1692.3	1705.5	1719.6	1730.2	1741.7	1747.8	1749.6	1756.6	1758.4	1759.3	1754.0
17.5°	1682.6	1706.4	1721.4	1737.3	1754.0	1765.5	1776.0	1780.5	1781.3	1783.1	1776.0
20°	1660.6	1687.0	1709.9	1732.9	1752.2	1769.9	1778.7	1791.0	1787.5	1794.6	1784.9
22.5°	1630.6	1660.6	1689.7	1719.6	1739.9	1761.1	1779.6	1788.4	1792.8	1792.8	1782.2
25°	1583.0	1618.3	1650.0	1680.8	1711.7	1737.3	1758.4	1771.6	1774.3	1773.4	1761.1
27.5°	1509.0	1546.9	1583.9	1619.2	1657.1	1687.0	1711.7	1727.6	1732.0	1732.0	1718.8
30°	1406.7	1447.3	1483.4	1525.7	1564.5	1598.0	1632.4	1646.5	1654.4	1654.4	1639.4
32.5°	1285.1	1319.5	1353.0	1394.4	1436.7	1474.6	1507.2	1526.6	1536.3	1535.4	1522.2
35°	1152.9	1169.6	1195.2	1226.0	1263.9	1299.2	1330.9	1349.4	1366.2	1365.3	1353.0
37.5°	1020.7	1016.3	1018.9	1030.4	1054.2	1078.8	1103.5	1121.2	1135.2	1141.4	1138.8
40°	891.1	868.2	846.1	838.2	840.0	848.8	862.0	875.2	891.1	899.0	902.6
42.5°	774.8	736.0	697.2	668.1	651.4	646.1	652.2	656.6	666.3	677.8	689.3
45°	681.3	629.3	578.2	533.3	505.0	488.3	484.8	488.3	493.6	505.0	520.0
47.5°	604.6	543.8	486.5	436.3	394.9	372.8	366.7	364.9	370.2	380.8	401.0
50°	536.8	476.0	412.5	354.3	311.1	286.4	277.6	274.1	280.3	288.2	306.7
52.5°	462.7	402.8	337.6	281.2	236.2	210.7	201.0	195.7	199.2	209.8	228.3
55°	382.5	327.0	267.9	209.8	166.6	142.8	131.3	127.8	131.3	142.8	161.3
57.5°	302.3	255.6	206.2	151.6	112.8	89.0	77.6	74.0	83.7	88.1	107.5
60°	236.2	198.3	156.0	111.1	77.6	59.0	47.6	44.9	49.4	57.3	73.2
62.5°	177.2	153.4	119.9	79.3	57.3	37.9	31.7	29.1	31.7	37.9	50.2
65°	128.7	110.2	83.7	58.2	38.8	28.2	21.2	19.4	22.0	26.4	37.0
67.5°	88.1	74.0	58.2	40.5	26.4	17.6	15.0	15.0	15.9	19.4	27.3
70°	57.3	48.5	37.0	26.4	17.6	13.2	11.5	9.7	11.5	14.1	18.5
72.5°	36.1	30.8	23.8	18.5	13.2	9.7	7.9	7.1	8.8	10.6	14.1
75°	22.0	16.8	12.3	9.7	7.1	7.1	7.1	3.5	4.4	7.1	8.8
77.5°	13.2	11.5	9.7	7.9	6.2	3.5	3.5	3.5	4.4	5.3	7.9
80°	7.1	6.2	4.4	4.4	3.5	2.7	3.5	2.7	1.8	4.4	5.3
82.5°	4.4	3.5	3.5	3.5	4.4	1.8	2.7	1.8	2.7	3.5	2.7
85°	2.7	2.7	2.7	1.8	4.4	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°	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6	1660.6
2.5°	1663.2	1662.3	1663.2	1662.3	1662.3	1662.3	1663.2	1663.2	1662.3	1662.3	1664.1
5°	1670.3	1670.3	1670.3	1669.4	1668.5	1668.5	1670.3	1670.3	1667.6	1670.3	1670.3
7.5°	1685.3	1682.6	1685.3	1681.7	1680.0	1680.8	1681.7	1680.0	1678.2	1679.1	1679.1
10°	1704.6	1702.0	1702.0	1699.4	1696.7	1694.9	1693.2	1688.8	1684.4	1683.5	1680.0
12.5°	1727.6	1723.2	1720.5	1715.2	1710.8	1704.6	1699.4	1692.3	1683.5	1677.3	1671.2
15°	1750.5	1743.4	1737.3	1728.4	1718.8	1708.2	1696.7	1685.3	1671.2	1658.8	1648.2
17.5°	1769.0	1759.3	1747.8	1733.7	1719.6	1703.8	1687.0	1670.3	1650.0	1634.1	1621.8
20°	1775.1	1761.1	1746.1	1727.6	1709.0	1687.0	1665.9	1643.8	1620.9	1604.2	1590.1
22.5°	1767.2	1750.5	1732.0	1712.6	1687.9	1664.1	1639.4	1613.9	1593.6	1570.7	1557.5
25°	1745.2	1724.9	1704.6	1681.7	1657.9	1631.5	1605.1	1578.6	1553.9	1541.6	1524.8
27.5°	1700.2	1678.2	1656.2	1632.4	1605.1	1578.6	1551.3	1525.7	1504.6	1487.8	1478.1
30°	1620.9	1595.3	1569.8	1544.2	1520.4	1493.1	1467.5	1446.4	1425.2	1412.0	1402.3
32.5°	1499.3	1476.4	1450.8	1426.1	1404.1	1381.2	1360.0	1341.5	1326.5	1317.7	1310.6
35°	1335.3	1312.4	1293.0	1275.4	1256.9	1247.2	1234.0	1223.4	1217.2	1213.7	1212.8
37.5°	1129.1	1115.9	1109.7	1106.2	1102.6	1100.0	1101.8	1106.2	1109.7	1115.9	1122.9
40°	908.7	920.2	923.7	936.1	947.5	962.5	979.3	998.6	1014.5	1034.8	1048.9
42.5°	707.8	728.9	753.6	780.0	808.3	835.6	869.1	899.9	928.1	953.7	975.7
45°	543.8	576.4	613.5	651.4	689.3	728.9	769.5	807.4	840.9	868.2	891.1
47.5°	424.0	460.1	507.7	554.4	600.2	647.0	691.9	731.6	759.8	786.2	806.5
50°	335.8	377.2	429.2	483.0	533.3	582.6	630.2	667.2	695.4	716.6	731.6
52.5°	260.0	309.4	362.3	418.7	472.4	526.2	570.3	604.6	627.6	646.1	657.5
55°	193.9	242.4	298.8	357.0	411.6	463.6	505.0	535.0	555.3	565.9	572.0
57.5°	140.1	184.2	240.6	298.8	348.2	397.5	431.0	458.3	469.8	476.0	478.6
60°	102.2	142.8	193.0	243.3	290.0	329.6	358.7	377.2	386.1	389.6	388.7
62.5°	74.9	110.2	153.4	195.7	233.6	266.2	289.1	301.4	305.9	307.6	305.0
65°	57.3	84.6	121.6	154.2	183.3	207.1	223.9	231.8	234.5	233.6	231.8
67.5°	42.3	63.5	90.8	115.5	136.6	155.1	163.9	171.0	172.7	170.1	167.5
70°	30.0	46.7	66.1	82.9	98.7	109.3	119.0	119.9	119.9	119.0	117.2
72.5°	21.2	32.6	44.9	56.4	66.1	74.0	77.6	80.2	79.3	78.4	76.7
75°	14.1	20.3	32.6	35.3	44.1	46.7	50.2	50.2	51.1	48.5	48.5
77.5°	8.8	14.1	19.4	22.9	26.4	30.0	31.7	31.7	32.6	31.7	31.7
80°	5.3	8.8	10.6	15.9	15.9	18.5	19.4	20.3	18.5	21.2	18.5
82.5°	3.5	5.3	7.9	7.9	9.7	11.5	11.5	12.3	12.3	11.5	11.5
85°	2.7	3.5	4.4	5.3	5.3	6.2	5.3	5.3	6.2	7.1	6.2
87.5°	0.9	1.8	0.9	1.8	1.8	3.5	2.7	2.7	2.7	3.5	3.5
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: P245481

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1660.6	1660.6	1660.6	1660.6
2.5°	1662.3	1663.2	1662.3	1662.3
5°	1670.3	1669.4	1670.3	1668.5
7.5°	1676.4	1676.4	1675.6	1675.6
10°	1676.4	1672.9	1672.9	1672.9
12.5°	1663.2	1658.8	1656.2	1654.4
15°	1640.3	1632.4	1628.8	1628.0
17.5°	1610.3	1603.3	1598.9	1596.2
20°	1576.0	1568.9	1563.6	1564.5
22.5°	1546.0	1538.1	1534.5	1532.8
25°	1516.0	1506.3	1503.7	1501.9
27.5°	1467.5	1462.3	1459.6	1457.0
30°	1393.5	1390.9	1386.5	1392.6
32.5°	1308.0	1303.6	1300.1	1302.7
35°	1213.7	1211.1	1213.7	1211.9
37.5°	1127.3	1130.0	1133.5	1135.2
40°	1059.5	1069.1	1072.7	1074.4
42.5°	991.6	1003.0	1010.1	1014.5
45°	907.8	919.3	927.2	932.5
47.5°	821.5	831.2	839.1	838.2
50°	743.0	748.3	751.8	755.4
52.5°	663.7	663.7	664.6	664.6
55°	573.8	572.0	571.1	572.0
57.5°	475.1	473.3	472.4	469.8
60°	385.2	379.9	376.4	376.4
62.5°	301.4	295.3	292.6	291.8
65°	226.5	225.6	220.3	219.5
67.5°	163.9	160.4	156.9	157.8
70°	115.5	110.2	110.2	108.4
72.5°	74.9	72.3	71.4	71.4
75°	46.7	46.7	44.9	48.5
77.5°	30.8	30.8	30.0	30.8
80°	18.5	18.5	18.5	17.6
82.5°	11.5	12.3	11.5	11.5
85°	6.2	7.1	5.3	7.9
87.5°	3.5	4.4	3.5	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)