

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: P246057

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246057
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 EC8B30850 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3105.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

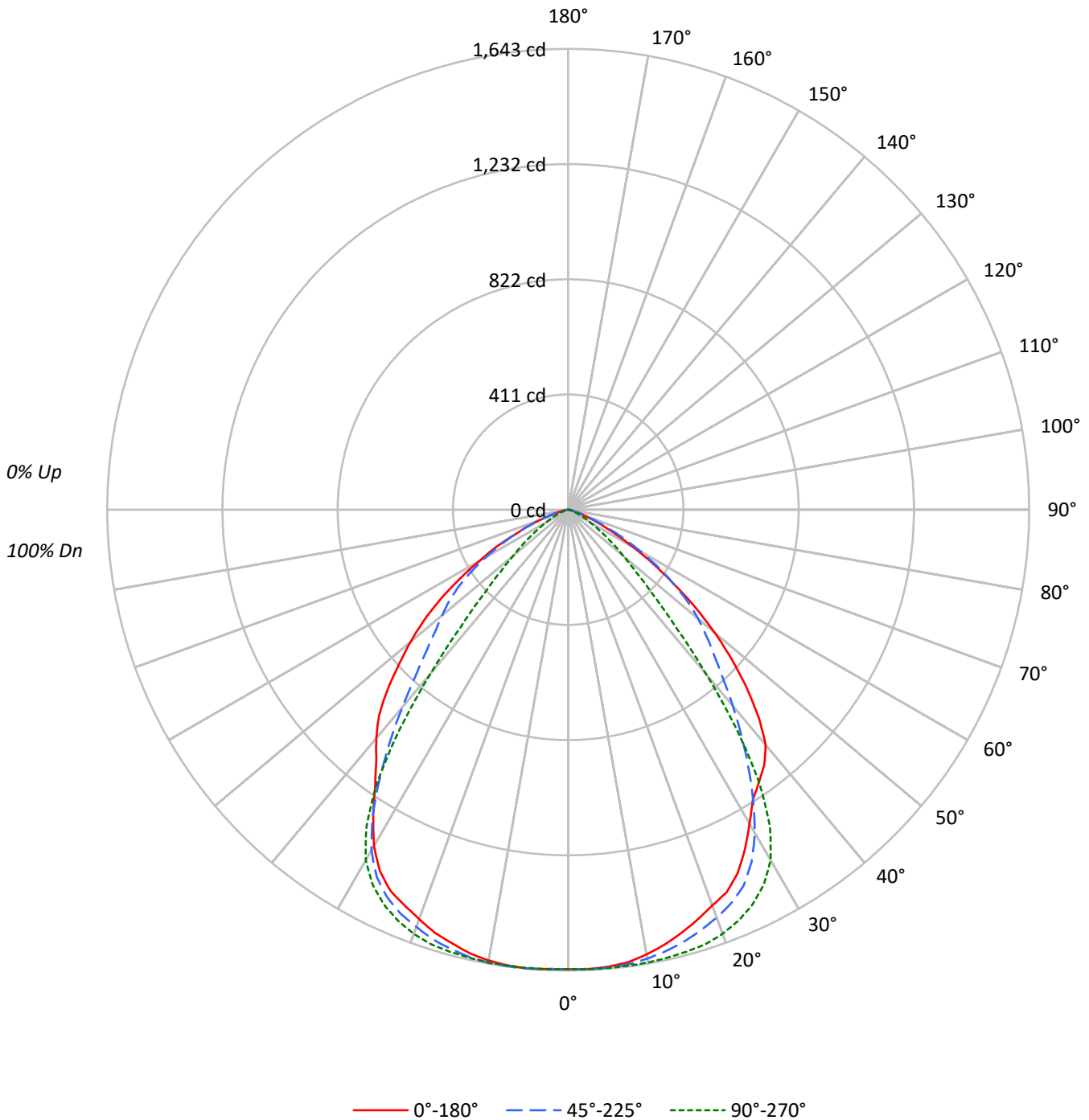
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50519	50519	50519
5°	50629	50765	50820
10°	50415	51324	51104
15°	49856	52075	51095
20°	49259	52806	50962
25°	48620	52867	51012
30°	45997	51380	49283
35°	44623	44657	45120
40°	44070	30726	42830
45°	39270	18447	39806
50°	32650	12276	35183
55°	24488	8462	29832
60°	16596	5637	22504
65°	10011	3656	15461
70°	5554	1984	9512
75°	2514	834	4921
80°	2184	941	3427
85°	2477	1238	3432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	5.0
10°-20°	454.1	14.6
20°-30°	689.2	22.2
30°-40°	723.8	23.3
40°-50°	542.7	17.5
50°-60°	348.2	11.2
60°-70°	149.0	4.8
70°-80°	35.2	1.1
80°-90°	6.5	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°	1299.6	41.9
0°-40°	2023.4	65.2
0°-60°	2914.3	93.9
0°-90°	3105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1638	1638	1638	1638	1638	
5°	1636	1638	1640	1643	1642	155
15°	1562	1594	1631	1621	1600	440
25°	1429	1479	1554	1526	1499	653
35°	1185	1119	1186	1172	1199	744
45°	900	736	423	715	913	690
55°	456	456	157	475	555	413
65°	137	162	50	208	212	146
75°	21	25	7	42	41	31
85°	7	4	4	7	10	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°	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3
2.5°	1639.1	1640.9	1640.0	1640.0	1639.1	1640.0	1640.0	1641.8	1641.8	1640.0	1639.1
5°	1635.6	1637.4	1637.4	1635.6	1635.6	1640.0	1637.4	1639.1	1639.1	1638.3	1638.3
7.5°	1627.7	1627.7	1631.2	1628.6	1628.6	1631.2	1630.3	1632.1	1633.9	1634.8	1634.8
10°	1610.1	1611.9	1612.8	1612.8	1613.6	1616.3	1618.0	1621.6	1623.3	1625.1	1626.0
12.5°	1588.1	1590.8	1591.7	1590.8	1593.4	1596.9	1601.3	1605.7	1608.4	1611.9	1614.5
15°	1561.7	1561.7	1563.5	1566.2	1567.9	1573.2	1577.6	1582.9	1589.9	1594.3	1598.7
17.5°	1532.7	1534.5	1537.1	1537.1	1540.7	1549.4	1552.1	1560.0	1567.9	1572.3	1581.1
20°	1501.1	1502.8	1505.5	1507.2	1511.6	1518.7	1523.9	1531.0	1539.8	1547.7	1556.5
22.5°	1476.5	1472.9	1474.7	1476.5	1480.9	1487.0	1493.2	1502.0	1510.8	1518.7	1527.5
25°	1429.0	1429.8	1432.5	1434.2	1439.5	1444.8	1451.8	1462.4	1470.3	1479.1	1488.8
27.5°	1364.8	1365.7	1370.1	1370.1	1374.4	1383.2	1387.6	1396.4	1407.0	1415.8	1427.2
30°	1291.8	1293.5	1293.5	1297.1	1299.7	1304.1	1308.5	1317.3	1322.6	1330.5	1346.3
32.5°	1225.0	1226.7	1225.8	1225.0	1222.3	1221.4	1220.6	1222.3	1224.1	1226.7	1232.9
35°	1185.4	1181.0	1177.5	1171.3	1164.3	1155.5	1147.6	1137.0	1127.3	1119.4	1110.6
37.5°	1147.6	1146.7	1141.4	1132.6	1118.5	1102.7	1084.3	1061.4	1038.5	1013.9	990.2
40°	1094.8	1092.2	1087.8	1075.5	1059.6	1040.3	1015.7	987.5	950.6	912.8	874.1
42.5°	1005.1	1006.0	1000.7	991.0	976.1	957.6	932.1	901.4	861.8	816.9	766.8
45°	900.5	900.5	898.7	890.8	880.2	865.3	846.0	820.5	781.8	736.0	682.4
47.5°	791.4	792.3	789.7	787.9	783.5	773.8	759.8	740.4	713.2	669.2	615.5
50°	680.6	680.6	685.0	684.1	684.1	680.6	674.5	663.0	639.3	604.1	554.0
52.5°	569.8	571.6	574.2	577.7	582.1	589.2	582.1	576.9	561.9	534.6	491.6
55°	455.5	457.3	461.7	467.8	473.1	480.1	481.9	481.9	474.0	455.5	423.0
57.5°	357.9	355.3	358.8	364.1	371.1	378.1	383.4	389.6	388.7	376.4	350.0
60°	269.1	270.0	272.6	277.9	283.2	289.3	296.3	301.6	304.3	298.1	281.4
62.5°	196.1	196.1	199.6	204.9	207.5	216.3	220.7	223.4	226.0	225.1	214.6
65°	137.2	138.9	140.7	143.3	146.0	151.2	153.9	159.2	160.9	161.8	153.9
67.5°	96.7	94.1	95.9	97.6	100.2	103.8	109.0	109.0	111.7	111.7	106.4
70°	61.6	61.6	62.4	65.1	66.8	67.7	69.5	71.2	73.9	73.0	73.0
72.5°	41.3	40.5	41.3	42.2	43.1	45.7	45.7	46.6	48.4	49.3	45.7
75°	21.1	22.0	23.7	22.9	25.5	23.7	24.6	27.3	26.4	24.6	24.6
77.5°	17.6	17.6	17.6	16.7	18.5	18.5	17.6	19.3	18.5	18.5	17.6
80°	12.3	13.2	12.3	11.4	12.3	11.4	11.4	11.4	11.4	11.4	10.5
82.5°	9.7	7.9	8.8	7.9	8.8	8.8	7.9	7.0	7.0	7.9	7.0
85°	7.0	5.3	6.2	6.2	5.3	5.3	5.3	5.3	5.3	4.4	4.4
87.5°	4.4	2.6	2.6	2.6	3.5	3.5	3.5	2.6	3.5	3.5	1.8
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°	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3
2.5°	1640.9	1640.0	1641.8	1640.9	1640.9	1640.0	1640.9	1640.0	1641.8	1638.3	1639.1
5°	1640.9	1639.1	1640.0	1640.9	1641.8	1640.0	1640.0	1640.0	1641.8	1640.0	1640.9
7.5°	1637.4	1636.5	1639.1	1640.9	1640.0	1639.1	1640.9	1640.0	1641.8	1640.9	1642.6
10°	1630.3	1631.2	1633.0	1635.6	1636.5	1637.4	1639.1	1639.1	1641.8	1638.3	1640.0
12.5°	1619.8	1623.3	1627.7	1629.5	1633.0	1633.0	1634.8	1635.6	1637.4	1636.5	1639.1
15°	1606.6	1611.0	1616.3	1620.7	1625.1	1627.7	1630.3	1631.2	1633.9	1631.2	1632.1
17.5°	1590.8	1596.0	1604.0	1609.2	1616.3	1618.9	1622.4	1624.2	1626.8	1625.1	1626.0
20°	1568.8	1575.0	1583.7	1591.7	1596.0	1602.2	1606.6	1609.2	1611.0	1609.2	1610.1
22.5°	1538.0	1546.8	1558.2	1564.4	1573.2	1578.5	1579.3	1585.5	1589.9	1585.5	1587.3
25°	1502.0	1510.8	1519.6	1532.7	1540.7	1546.8	1553.0	1553.8	1558.2	1557.4	1556.5
27.5°	1442.2	1453.6	1468.5	1479.1	1489.6	1499.3	1506.4	1508.1	1512.5	1510.8	1511.6
30°	1360.4	1372.7	1386.8	1403.5	1418.4	1428.1	1436.9	1443.0	1447.4	1444.8	1443.9
32.5°	1244.3	1256.6	1271.6	1288.3	1305.9	1319.9	1330.5	1338.4	1343.7	1341.9	1337.5
35°	1111.5	1115.0	1124.7	1137.9	1152.8	1167.8	1177.5	1186.3	1192.4	1194.2	1194.2
37.5°	975.2	963.8	956.8	956.8	965.5	971.7	980.5	985.8	995.4	999.0	1001.6
40°	843.3	816.9	792.3	773.8	761.5	760.7	760.7	763.3	772.1	783.5	794.1
42.5°	725.5	683.3	645.5	611.2	586.5	572.5	566.3	567.2	574.2	584.8	602.4
45°	631.4	578.6	531.1	489.8	456.4	434.4	423.9	423.0	428.2	440.6	459.9
47.5°	558.4	502.1	448.5	401.0	364.9	341.2	328.9	325.4	328.9	340.3	363.2
50°	497.7	439.7	384.3	335.0	296.3	271.7	260.3	255.9	260.3	270.0	292.8
52.5°	441.4	381.6	329.8	282.3	240.9	219.8	207.5	204.9	207.5	219.0	237.4
55°	376.4	325.4	274.4	226.9	190.8	169.7	160.0	157.4	160.0	170.6	189.9
57.5°	312.2	268.2	223.4	180.3	149.5	131.0	122.2	118.7	124.9	131.9	154.8
60°	252.4	217.2	179.4	141.6	116.1	99.4	92.3	91.4	93.2	102.0	117.8
62.5°	197.9	168.8	138.9	108.2	87.1	80.0	71.2	70.4	72.1	77.4	89.7
65°	142.5	124.0	101.1	79.1	62.4	52.8	49.3	50.1	51.9	55.4	66.8
67.5°	99.4	86.2	70.4	55.4	43.1	38.7	35.2	34.3	35.2	41.3	47.5
70°	66.8	58.9	47.5	42.2	29.9	23.7	24.6	22.0	25.5	25.5	30.8
72.5°	44.0	38.7	31.7	24.6	21.1	16.7	16.7	15.8	17.6	18.5	22.9
75°	22.9	17.6	17.6	12.3	8.8	4.4	7.9	7.0	6.2	7.0	8.8
77.5°	15.8	13.2	12.3	9.7	8.8	7.0	7.0	7.0	7.0	7.9	8.8
80°	9.7	9.7	7.0	6.2	5.3	4.4	5.3	5.3	5.3	5.3	6.2
82.5°	6.2	5.3	5.3	4.4	4.4	3.5	3.5	3.5	3.5	3.5	5.3
85°	5.3	3.5	3.5	2.6	3.5	6.2	2.6	3.5	3.5	3.5	2.6
87.5°	1.8	2.6	2.6	2.6	1.8	0.9	1.8	2.6	2.6	4.4	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3
2.5°	1640.9	1641.8	1641.8	1640.9	1640.9	1639.1	1642.6	1640.0	1640.9	1644.4	1641.8
5°	1642.6	1643.5	1643.5	1642.6	1642.6	1642.6	1643.5	1643.5	1642.6	1641.8	1643.5
7.5°	1646.2	1645.3	1645.3	1643.5	1643.5	1641.8	1643.5	1640.9	1642.6	1640.9	1643.5
10°	1641.8	1642.6	1641.8	1640.9	1640.9	1640.0	1640.0	1637.4	1638.3	1635.6	1637.4
12.5°	1639.1	1638.3	1638.3	1636.5	1634.8	1633.0	1632.1	1629.5	1629.5	1623.3	1626.0
15°	1632.1	1633.0	1630.3	1626.8	1625.1	1620.7	1618.9	1615.4	1611.9	1607.5	1608.4
17.5°	1626.0	1623.3	1619.8	1616.3	1609.2	1605.7	1602.2	1596.9	1595.2	1589.9	1588.1
20°	1607.5	1605.7	1601.3	1595.2	1590.8	1582.9	1579.3	1574.1	1569.7	1564.4	1561.7
22.5°	1583.7	1582.0	1576.7	1570.5	1563.5	1560.0	1556.5	1546.8	1542.4	1537.1	1536.2
25°	1553.8	1551.2	1545.9	1538.9	1535.4	1525.7	1522.2	1515.1	1513.4	1508.1	1507.2
27.5°	1508.1	1504.6	1498.4	1489.6	1483.5	1477.3	1473.8	1468.5	1466.8	1461.5	1460.6
30°	1439.5	1435.1	1422.8	1419.3	1408.7	1402.6	1402.6	1395.6	1396.4	1392.9	1392.9
32.5°	1331.4	1324.3	1314.6	1307.6	1300.6	1297.1	1297.1	1294.4	1296.2	1296.2	1298.0
35°	1188.0	1178.4	1173.1	1168.7	1168.7	1172.2	1182.8	1185.4	1190.7	1195.1	1198.6
37.5°	1004.2	1003.4	1009.5	1014.8	1028.0	1042.9	1061.4	1077.2	1092.2	1102.7	1113.3
40°	805.5	827.5	845.1	869.7	889.9	918.9	952.4	979.6	1005.1	1023.6	1042.9
42.5°	628.7	656.9	693.8	729.9	765.9	805.5	849.5	887.3	920.7	946.2	966.4
45°	489.8	528.5	573.4	619.1	665.7	714.9	760.7	799.3	834.5	860.9	881.1
47.5°	394.8	437.0	488.0	538.2	590.9	642.8	693.8	727.2	756.2	777.4	795.8
50°	326.2	371.1	424.7	481.9	534.6	586.5	630.5	663.0	686.8	705.3	716.7
52.5°	272.6	320.1	377.3	434.4	487.2	534.6	574.2	598.9	618.2	631.4	641.9
55°	225.1	270.9	324.5	378.1	430.0	474.9	507.4	525.9	540.8	548.7	554.9
57.5°	183.8	226.0	275.2	324.5	369.3	406.3	431.8	450.2	457.3	463.4	462.5
60°	144.2	183.8	228.6	270.9	309.5	339.4	357.9	368.5	373.7	376.4	374.6
62.5°	113.4	149.5	183.8	220.7	248.9	274.4	292.0	292.0	294.6	295.5	298.1
65°	84.4	111.7	141.6	168.8	191.7	208.4	218.1	220.7	224.2	223.4	221.6
67.5°	62.4	82.7	104.6	124.9	140.7	151.2	158.3	164.5	163.6	161.8	160.9
70°	43.1	56.3	75.6	87.9	99.4	109.9	111.7	112.6	113.4	114.3	112.6
72.5°	29.9	39.6	50.1	60.7	67.7	72.1	76.5	77.4	77.4	77.4	76.5
75°	15.0	20.2	29.9	34.3	40.5	42.2	45.7	45.7	48.4	44.8	44.0
77.5°	13.2	15.8	21.1	24.6	27.3	29.9	30.8	33.4	32.5	30.8	31.7
80°	7.9	9.7	13.2	15.0	18.5	19.3	20.2	21.1	20.2	21.1	21.1
82.5°	6.2	7.0	8.8	8.8	11.4	11.4	12.3	12.3	13.2	13.2	13.2
85°	3.5	6.2	5.3	10.5	7.0	7.0	8.8	10.5	8.8	8.8	10.5
87.5°	3.5	3.5	2.6	3.5	3.5	3.5	4.4	5.3	5.3	6.2	5.3
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: P246057

CATALOG NUMBER: LSR8B30D010 EC8B30850 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1638.3	1638.3	1638.3	1638.3
2.5°	1640.9	1642.6	1640.0	1639.1
5°	1643.5	1643.5	1641.8	1641.8
7.5°	1643.5	1643.5	1640.9	1639.1
10°	1636.5	1636.5	1633.9	1632.1
12.5°	1623.3	1623.3	1622.4	1619.8
15°	1606.6	1606.6	1603.1	1600.5
17.5°	1583.7	1585.5	1581.1	1581.1
20°	1559.1	1558.2	1554.7	1553.0
22.5°	1533.6	1531.9	1531.0	1525.7
25°	1506.4	1504.6	1502.0	1499.3
27.5°	1459.8	1458.9	1456.2	1452.7
30°	1388.5	1387.6	1384.1	1384.1
32.5°	1296.2	1295.3	1291.8	1292.7
35°	1200.3	1203.9	1202.1	1198.6
37.5°	1120.3	1123.0	1124.7	1123.0
40°	1053.5	1061.4	1062.3	1064.0
42.5°	982.3	992.8	996.3	998.1
45°	896.9	906.6	914.5	912.8
47.5°	809.9	816.9	824.0	818.7
50°	726.4	730.7	733.4	733.4
52.5°	647.2	647.2	646.3	647.2
55°	556.6	556.6	553.1	554.9
57.5°	461.7	463.4	460.8	456.4
60°	373.7	369.3	367.6	364.9
62.5°	291.1	291.1	284.9	292.8
65°	218.1	215.4	212.8	211.9
67.5°	158.3	157.4	154.8	153.9
70°	111.7	108.2	107.3	105.5
72.5°	74.7	74.7	73.0	73.0
75°	45.7	41.3	40.5	41.3
77.5°	31.7	30.8	30.8	29.9
80°	21.1	20.2	22.0	19.3
82.5°	13.2	14.1	13.2	14.1
85°	8.8	10.5	9.7	9.7
87.5°	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)