

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: P246195

Luminaire Tested: **LSR8B30D010 EC8B30840 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246195
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 EC8B30840 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.0 lumens
Efficiency: N/A
Efficacy: 113.7 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

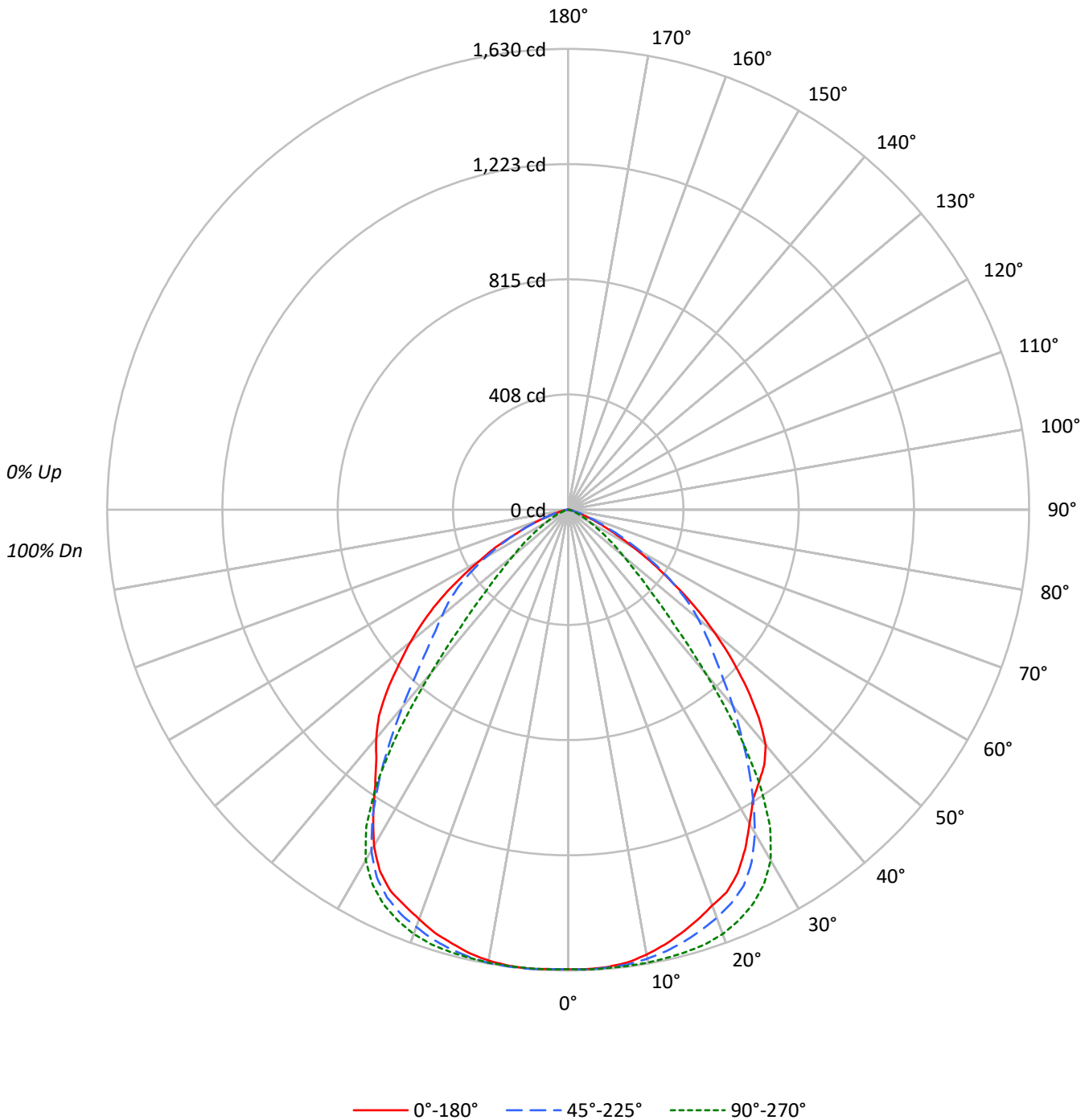
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	50128	50128	50128
5°	50239	50372	50427
10°	50027	50929	50710
15°	49473	51672	50699
20°	48878	52400	50568
25°	48243	52458	50618
30°	45641	50985	48902
35°	44277	44311	44770
40°	43728	30488	42500
45°	38965	18303	39497
50°	32401	12180	34910
55°	24300	8398	29601
60°	16467	5594	22332
65°	9931	3626	15345
70°	5509	1965	9440
75°	2490	834	4885
80°	2166	923	3410
85°	2477	1238	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	5.0
10°-20°	450.5	14.6
20°-30°	683.8	22.2
30°-40°	718.2	23.3
40°-50°	538.5	17.5
50°-60°	345.5	11.2
60°-70°	147.8	4.8
70°-80°	34.9	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°	1289.5	41.9
0°-40°	2007.8	65.2
0°-60°	2891.8	93.9
0°-90°	3081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1626	1626	1626	1626	1626	
5°	1623	1626	1627	1630	1629	154
15°	1550	1582	1619	1608	1588	437
25°	1418	1468	1542	1514	1488	648
35°	1176	1111	1177	1163	1189	738
45°	894	730	420	709	906	684
55°	452	452	156	471	551	410
65°	136	161	50	207	210	145
75°	21	24	7	42	41	30
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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1626.5	1628.2	1627.3	1627.3	1626.5	1627.3	1627.3	1629.1	1629.1	1627.3	1626.5
5°	1623.0	1624.7	1624.7	1623.0	1623.0	1627.3	1624.7	1626.5	1626.5	1625.6	1625.6
7.5°	1615.1	1615.1	1618.6	1616.0	1616.0	1618.6	1617.7	1619.5	1621.2	1622.1	1622.1
10°	1597.7	1599.4	1600.3	1600.3	1601.2	1603.8	1605.5	1609.0	1610.8	1612.5	1613.4
12.5°	1575.9	1578.5	1579.4	1578.5	1581.1	1584.6	1589.0	1593.3	1595.9	1599.4	1602.0
15°	1549.7	1549.7	1551.4	1554.1	1555.8	1561.0	1565.4	1570.6	1577.6	1582.0	1586.3
17.5°	1520.9	1522.6	1525.2	1525.2	1528.8	1537.5	1540.1	1547.9	1555.8	1560.2	1568.9
20°	1489.5	1491.2	1493.8	1495.6	1499.9	1506.9	1512.2	1519.1	1527.9	1535.7	1544.4
22.5°	1465.0	1461.6	1463.3	1465.0	1469.4	1475.5	1481.6	1490.3	1499.1	1506.9	1515.7
25°	1417.9	1418.8	1421.4	1423.2	1428.4	1433.6	1440.6	1451.1	1458.9	1467.7	1477.3
27.5°	1354.2	1355.1	1359.5	1359.5	1363.8	1372.6	1376.9	1385.6	1396.1	1404.8	1416.2
30°	1281.8	1283.5	1283.5	1287.0	1289.6	1294.0	1298.4	1307.1	1312.3	1320.2	1335.9
32.5°	1215.5	1217.2	1216.4	1215.5	1212.9	1212.0	1211.1	1212.9	1214.6	1217.2	1223.3
35°	1176.2	1171.9	1168.4	1162.3	1155.3	1146.6	1138.7	1128.2	1118.6	1110.8	1102.1
37.5°	1138.7	1137.8	1132.6	1123.9	1109.9	1094.2	1075.9	1053.2	1030.5	1006.1	982.5
40°	1086.3	1083.7	1079.4	1067.2	1051.4	1032.2	1007.8	979.9	943.2	905.7	867.3
42.5°	997.3	998.2	993.0	983.4	968.6	950.2	924.9	894.4	855.1	810.6	760.9
45°	893.5	893.5	891.8	883.9	873.4	858.6	839.4	814.1	775.7	730.3	677.1
47.5°	785.3	786.2	783.6	781.8	777.5	767.9	753.9	734.7	707.7	664.0	610.8
50°	675.4	675.4	679.7	678.9	678.9	675.4	669.3	657.9	634.4	599.5	549.7
52.5°	565.4	567.2	569.8	573.3	577.6	584.6	577.6	572.4	557.6	530.5	487.8
55°	452.0	453.7	458.1	464.2	469.5	476.4	478.2	478.2	470.3	452.0	419.7
57.5°	355.1	352.5	356.0	361.2	368.2	375.2	380.4	386.5	385.7	373.5	347.3
60°	267.0	267.9	270.5	275.7	281.0	287.1	294.1	299.3	301.9	295.8	279.2
62.5°	194.6	194.6	198.1	203.3	205.9	214.7	219.0	221.6	224.2	223.4	212.9
65°	136.1	137.9	139.6	142.2	144.8	150.1	152.7	157.9	159.7	160.6	152.7
67.5°	96.0	93.4	95.1	96.8	99.5	103.0	108.2	108.2	110.8	110.8	105.6
70°	61.1	61.1	62.0	64.6	66.3	67.2	68.9	70.7	73.3	72.4	72.4
72.5°	41.0	40.1	41.0	41.9	42.8	45.4	45.4	46.2	48.0	48.9	45.4
75°	20.9	21.8	23.5	22.7	25.3	23.5	24.4	27.1	26.2	24.4	24.4
77.5°	17.4	17.4	17.4	16.6	18.3	18.3	17.4	19.2	18.3	18.3	17.4
80°	12.2	13.1	12.2	11.3	12.2	11.3	11.3	11.3	11.3	11.3	10.5
82.5°	9.6	7.9	8.7	7.9	8.7	8.7	7.9	7.0	7.0	7.9	7.0
85°	7.0	5.2	6.1	6.1	5.2	5.2	5.2	5.2	5.2	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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1628.2	1627.3	1629.1	1628.2	1628.2	1627.3	1628.2	1627.3	1629.1	1625.6	1626.5
5°	1628.2	1626.5	1627.3	1628.2	1629.1	1627.3	1627.3	1627.3	1629.1	1627.3	1628.2
7.5°	1624.7	1623.8	1626.5	1628.2	1627.3	1626.5	1628.2	1627.3	1629.1	1628.2	1630.0
10°	1617.7	1618.6	1620.4	1623.0	1623.8	1624.7	1626.5	1626.5	1629.1	1625.6	1627.3
12.5°	1607.3	1610.8	1615.1	1616.9	1620.4	1620.4	1622.1	1623.0	1624.7	1623.8	1626.5
15°	1594.2	1598.5	1603.8	1608.2	1612.5	1615.1	1617.7	1618.6	1621.2	1618.6	1619.5
17.5°	1578.5	1583.7	1591.6	1596.8	1603.8	1606.4	1609.9	1611.6	1614.3	1612.5	1613.4
20°	1556.7	1562.8	1571.5	1579.4	1583.7	1589.8	1594.2	1596.8	1598.5	1596.8	1597.7
22.5°	1526.1	1534.9	1546.2	1552.3	1561.0	1566.3	1567.1	1573.2	1577.6	1573.2	1575.0
25°	1490.3	1499.1	1507.8	1520.9	1528.8	1534.9	1541.0	1541.8	1546.2	1545.3	1544.4
27.5°	1431.0	1442.4	1457.2	1467.7	1478.1	1487.7	1494.7	1496.4	1500.8	1499.1	1499.9
30°	1349.9	1362.1	1376.1	1392.6	1407.5	1417.0	1425.8	1431.9	1436.2	1433.6	1432.8
32.5°	1234.7	1246.9	1261.7	1278.3	1295.8	1309.7	1320.2	1328.1	1333.3	1331.5	1327.2
35°	1102.9	1106.4	1116.0	1129.1	1143.9	1158.8	1168.4	1177.1	1183.2	1184.9	1184.9
37.5°	967.7	956.3	949.4	949.4	958.1	964.2	972.9	978.1	987.8	991.2	993.9
40°	836.8	810.6	786.2	767.9	755.7	754.8	754.8	757.4	766.1	777.5	787.9
42.5°	719.9	678.0	640.5	606.4	582.0	568.0	561.9	562.8	569.8	580.3	597.7
45°	626.5	574.2	527.0	486.0	452.9	431.0	420.6	419.7	424.9	437.1	456.4
47.5°	554.1	498.2	445.0	397.9	362.1	338.6	326.3	322.9	326.3	337.7	360.4
50°	493.9	436.3	381.3	332.4	294.1	269.6	258.3	253.9	258.3	267.9	290.6
52.5°	438.0	378.7	327.2	280.1	239.1	218.1	205.9	203.3	205.9	217.3	235.6
55°	373.5	322.9	272.2	225.1	189.4	168.4	158.8	156.2	158.8	169.3	188.5
57.5°	309.8	266.1	221.6	178.9	148.3	130.0	121.3	117.8	123.9	130.9	153.6
60°	250.4	215.5	178.0	140.5	115.2	98.6	91.6	90.7	92.5	101.2	116.9
62.5°	196.3	167.5	137.9	107.3	86.4	79.4	70.7	69.8	71.5	76.8	89.0
65°	141.4	123.0	100.3	78.5	62.0	52.4	48.9	49.7	51.5	55.0	66.3
67.5°	98.6	85.5	69.8	55.0	42.8	38.4	34.9	34.0	34.9	41.0	47.1
70°	66.3	58.5	47.1	41.9	29.7	23.5	24.4	21.8	25.3	25.3	30.5
72.5°	43.6	38.4	31.4	24.4	20.9	16.6	16.6	15.7	17.4	18.3	22.7
75°	22.7	17.4	17.4	12.2	8.7	4.4	7.9	7.0	6.1	7.0	8.7
77.5°	15.7	13.1	12.2	9.6	8.7	7.0	7.0	7.0	7.0	7.9	8.7
80°	9.6	9.6	7.0	6.1	5.2	4.4	5.2	5.2	5.2	5.2	6.1
82.5°	6.1	5.2	5.2	4.4	4.4	3.5	3.5	3.5	3.5	3.5	5.2
85°	5.2	3.5	3.5	2.6	3.5	6.1	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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1628.2	1629.1	1629.1	1628.2	1628.2	1626.5	1630.0	1627.3	1628.2	1631.7	1629.1
5°	1630.0	1630.8	1630.8	1630.0	1630.0	1630.0	1630.8	1630.8	1630.0	1629.1	1630.8
7.5°	1633.5	1632.6	1632.6	1630.8	1630.8	1629.1	1630.8	1628.2	1630.0	1628.2	1630.8
10°	1629.1	1630.0	1629.1	1628.2	1628.2	1627.3	1627.3	1624.7	1625.6	1623.0	1624.7
12.5°	1626.5	1625.6	1625.6	1623.8	1622.1	1620.4	1619.5	1616.9	1616.9	1610.8	1613.4
15°	1619.5	1620.4	1617.7	1614.3	1612.5	1608.2	1606.4	1602.9	1599.4	1595.1	1595.9
17.5°	1613.4	1610.8	1607.3	1603.8	1596.8	1593.3	1589.8	1584.6	1582.8	1577.6	1575.9
20°	1595.1	1593.3	1589.0	1582.8	1578.5	1570.6	1567.1	1561.9	1557.5	1552.3	1549.7
22.5°	1571.5	1569.7	1564.5	1558.4	1551.4	1547.9	1544.4	1534.9	1530.5	1525.2	1524.4
25°	1541.8	1539.2	1534.0	1527.0	1523.5	1513.9	1510.4	1503.4	1501.7	1496.4	1495.6
27.5°	1496.4	1493.0	1486.9	1478.1	1472.0	1465.9	1462.4	1457.2	1455.5	1450.2	1449.3
30°	1428.4	1424.0	1411.8	1408.3	1397.9	1391.7	1391.7	1384.8	1385.6	1382.2	1382.2
32.5°	1321.1	1314.1	1304.5	1297.5	1290.5	1287.0	1287.0	1284.4	1286.2	1286.2	1287.9
35°	1178.8	1169.3	1164.0	1159.6	1159.6	1163.1	1173.6	1176.2	1181.5	1185.8	1189.3
37.5°	996.5	995.6	1001.7	1006.9	1020.0	1034.9	1053.2	1068.9	1083.7	1094.2	1104.7
40°	799.3	821.1	838.5	863.0	883.0	911.8	945.0	972.0	997.3	1015.7	1034.9
42.5°	623.9	651.8	688.5	724.2	760.0	799.3	842.9	880.4	913.6	938.9	959.0
45°	486.0	524.4	568.9	614.3	660.5	709.4	754.8	793.2	828.1	854.2	874.3
47.5°	391.8	433.7	484.3	534.0	586.4	637.8	688.5	721.6	750.4	771.3	789.7
50°	323.7	368.2	421.5	478.2	530.5	582.0	625.6	657.9	681.5	699.8	711.1
52.5°	270.5	317.6	374.3	431.0	483.4	530.5	569.8	594.2	613.4	626.5	637.0
55°	223.4	268.8	322.0	375.2	426.7	471.2	503.5	521.8	536.6	544.5	550.6
57.5°	182.4	224.2	273.1	322.0	366.5	403.1	428.4	446.8	453.7	459.8	459.0
60°	143.1	182.4	226.9	268.8	307.1	336.8	355.1	365.6	370.8	373.5	371.7
62.5°	112.6	148.3	182.4	219.0	246.9	272.2	289.7	289.7	292.3	293.2	295.8
65°	83.8	110.8	140.5	167.5	190.2	206.8	216.4	219.0	222.5	221.6	219.9
67.5°	62.0	82.0	103.8	123.9	139.6	150.1	157.1	163.2	162.3	160.6	159.7
70°	42.8	55.9	75.0	87.3	98.6	109.1	110.8	111.7	112.6	113.4	111.7
72.5°	29.7	39.3	49.7	60.2	67.2	71.5	75.9	76.8	76.8	76.8	75.9
75°	14.8	20.1	29.7	34.0	40.1	41.9	45.4	45.4	48.0	44.5	43.6
77.5°	13.1	15.7	20.9	24.4	27.1	29.7	30.5	33.2	32.3	30.5	31.4
80°	7.9	9.6	13.1	14.8	18.3	19.2	20.1	20.9	20.1	20.9	20.9
82.5°	6.1	7.0	8.7	8.7	11.3	11.3	12.2	12.2	13.1	13.1	13.1
85°	3.5	6.1	5.2	10.5	7.0	7.0	8.7	10.5	8.7	8.7	10.5
87.5°	3.5	3.5	2.6	3.5	3.5	3.5	4.4	5.2	5.2	6.1	5.2
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: P246195

CATALOG NUMBER: LSR8B30D010 EC8B30840 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1625.6	1625.6	1625.6	1625.6
2.5°	1628.2	1630.0	1627.3	1626.5
5°	1630.8	1630.8	1629.1	1629.1
7.5°	1630.8	1630.8	1628.2	1626.5
10°	1623.8	1623.8	1621.2	1619.5
12.5°	1610.8	1610.8	1609.9	1607.3
15°	1594.2	1594.2	1590.7	1588.1
17.5°	1571.5	1573.2	1568.9	1568.9
20°	1547.1	1546.2	1542.7	1541.0
22.5°	1521.8	1520.0	1519.1	1513.9
25°	1494.7	1493.0	1490.3	1487.7
27.5°	1448.5	1447.6	1445.0	1441.5
30°	1377.8	1376.9	1373.4	1373.4
32.5°	1286.2	1285.3	1281.8	1282.7
35°	1191.1	1194.6	1192.8	1189.3
37.5°	1111.7	1114.3	1116.0	1114.3
40°	1045.3	1053.2	1054.1	1055.8
42.5°	974.7	985.1	988.6	990.4
45°	890.0	899.6	907.5	905.7
47.5°	803.6	810.6	817.6	812.4
50°	720.7	725.1	727.7	727.7
52.5°	642.2	642.2	641.3	642.2
55°	552.3	552.3	548.9	550.6
57.5°	458.1	459.8	457.2	452.9
60°	370.8	366.5	364.7	362.1
62.5°	288.8	288.8	282.7	290.6
65°	216.4	213.8	211.2	210.3
67.5°	157.1	156.2	153.6	152.7
70°	110.8	107.3	106.5	104.7
72.5°	74.2	74.2	72.4	72.4
75°	45.4	41.0	40.1	41.0
77.5°	31.4	30.5	30.5	29.7
80°	20.9	20.1	21.8	19.2
82.5°	13.1	14.0	13.1	14.0
85°	8.7	10.5	9.6	9.6
87.5°	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)