

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: P250285

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13679.6 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

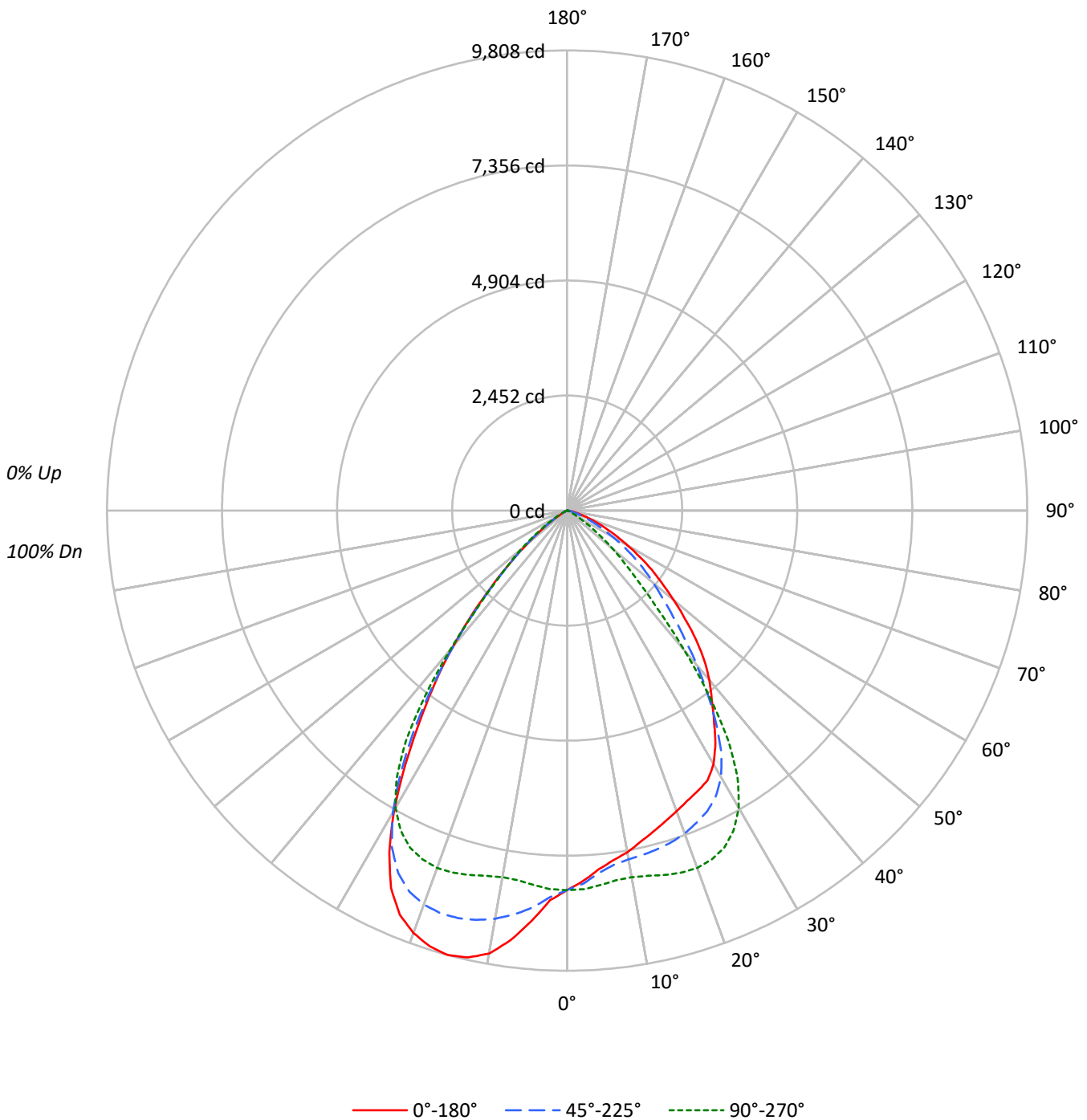
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.6	5.7
10°-20°	2327.3	17.0
20°-30°	3564.0	26.1
30°-40°	3493.9	25.5
40°-50°	2104.0	15.4
50°-60°	968.4	7.1
60°-70°	340.2	2.5
70°-80°	89.0	0.7
80°-90°	15.1	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°	6668.9	48.8
0°-40°	10162.8	74.3
0°-60°	13235.2	96.8
0°-90°	13679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13679.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8089	8089	8089	8089	8089	
5°	7677	7749	8013	8493	8784	725
15°	7087	7469	8040	8992	9808	2002
25°	6592	7068	7926	8523	8879	3036
35°	5454	5530	5987	5643	5462	3416
45°	3874	3190	2162	2177	2234	2971
55°	2200	1742	620	488	469	1963
65°	934	646	98	49	53	951
75°	242	140	8	0	0	293
85°	38	19	4	0	0	52
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°	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8
2.5°	7899.7	7907.3	7907.3	7907.3	7922.4	7926.4	7922.4	7926.4	7933.8	7960.2	7971.7
5°	7676.8	7665.4	7673.0	7669.2	7688.2	7699.5	7691.9	7703.2	7729.6	7748.7	7767.5
7.5°	7518.1	7518.1	7518.1	7525.6	7536.9	7559.6	7555.9	7563.4	7589.8	7616.3	7642.8
10°	7393.3	7389.6	7389.6	7408.4	7423.5	7449.9	7457.6	7480.3	7514.2	7548.3	7578.4
12.5°	7230.8	7234.6	7253.4	7272.4	7306.3	7347.9	7370.6	7401.0	7453.9	7510.5	7544.6
15°	7087.2	7090.9	7106.1	7143.8	7185.5	7234.6	7283.6	7332.8	7397.0	7468.9	7529.4
17.5°	6947.3	6951.0	6962.3	7004.0	7056.9	7121.2	7177.9	7242.1	7325.3	7408.4	7484.0
20°	6818.7	6815.0	6833.8	6871.6	6939.8	7000.2	7056.9	7132.6	7223.3	7325.3	7412.2
22.5°	6693.9	6693.9	6713.0	6750.8	6811.3	6871.6	6932.2	7011.5	7102.2	7200.5	7302.6
25°	6591.9	6588.2	6614.7	6633.6	6678.9	6739.5	6803.7	6867.9	6958.6	7068.4	7166.4
27.5°	6482.4	6478.7	6482.4	6505.1	6546.6	6591.9	6641.0	6697.9	6773.5	6864.2	6958.6
30°	6240.5	6244.2	6244.2	6263.1	6285.9	6334.9	6361.3	6418.2	6486.1	6561.8	6645.0
32.5°	5881.4	5885.1	5885.1	5892.8	5911.6	5934.2	5957.0	5998.6	6051.4	6115.7	6191.3
35°	5454.3	5454.3	5450.4	5454.3	5465.7	5465.7	5484.5	5465.7	5492.1	5529.9	5586.6
37.5°	5061.2	5053.6	5046.1	5038.4	5027.1	5008.3	4981.8	4936.4	4925.0	4910.0	4913.7
40°	4713.5	4709.8	4687.0	4668.1	4630.2	4584.9	4520.7	4441.3	4377.1	4301.5	4237.3
42.5°	4328.0	4324.0	4305.2	4271.1	4229.6	4161.6	4059.6	3953.8	3825.2	3711.9	3594.7
45°	3874.3	3885.6	3859.2	3821.4	3772.2	3707.9	3594.7	3466.0	3337.6	3190.1	3042.7
47.5°	3401.8	3398.0	3379.1	3356.5	3314.9	3250.7	3175.1	3035.2	2899.1	2763.2	2611.9
50°	2963.4	2948.2	2940.6	2918.1	2891.6	2838.7	2759.2	2645.8	2524.9	2396.4	2256.6
52.5°	2547.6	2547.6	2528.6	2513.5	2490.9	2449.3	2381.3	2290.7	2188.5	2067.5	1920.2
55°	2199.9	2192.2	2173.5	2154.4	2131.8	2105.4	2044.9	1969.4	1859.6	1742.5	1614.0
57.5°	1829.5	1825.5	1818.1	1795.4	1784.1	1757.6	1689.6	1614.0	1519.5	1417.5	1311.6
60°	1496.9	1481.7	1466.5	1451.4	1432.5	1406.2	1360.7	1296.4	1217.1	1126.4	1020.6
62.5°	1198.2	1220.9	1175.6	1175.6	1137.7	1115.1	1073.5	1035.7	952.5	869.3	778.6
65°	933.7	933.7	914.6	899.6	876.8	850.4	808.9	771.0	710.5	646.3	582.0
67.5°	714.4	710.5	691.7	676.6	657.7	642.6	612.4	566.9	521.7	468.8	415.7
70°	525.4	521.7	517.8	491.3	476.2	457.4	434.7	404.5	370.5	332.6	283.5
72.5°	377.9	377.9	366.7	355.4	340.2	325.0	302.4	283.5	253.2	226.9	192.8
75°	241.9	238.2	238.2	219.3	219.3	196.5	181.4	170.1	154.9	139.9	109.6
77.5°	174.0	170.1	166.4	158.7	151.2	143.6	132.3	117.1	105.8	90.7	79.4
80°	117.1	109.6	105.8	105.8	94.4	90.7	94.4	71.9	67.9	56.6	49.2
82.5°	71.9	71.9	67.9	67.9	64.2	60.5	49.2	49.2	45.4	41.6	34.1
85°	37.8	49.2	34.1	37.8	34.1	37.8	34.1	26.5	22.8	18.8	18.8
87.5°	22.8	15.1	15.1	22.8	18.8	15.1	15.1	15.1	11.3	7.6	7.6
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°	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8
2.5°	7964.1	7990.6	7986.7	8020.8	8032.1	8058.5	8058.5	8077.4	8088.8	8115.3	8137.9
5°	7775.1	7816.6	7828.1	7869.5	7903.6	7945.2	7971.7	8013.1	8050.9	8107.7	8160.7
7.5°	7658.0	7691.9	7714.6	7763.7	7801.6	7846.8	7892.3	7948.9	8001.8	8070.0	8145.5
10°	7601.2	7646.6	7680.5	7729.6	7775.1	7824.2	7869.5	7933.8	7994.3	8081.3	8164.4
12.5°	7586.0	7638.9	7680.5	7748.7	7794.0	7846.8	7899.7	7971.7	8035.9	8126.6	8221.2
15°	7586.0	7658.0	7714.6	7790.2	7843.1	7911.1	7967.8	8039.6	8111.4	8205.9	8296.6
17.5°	7571.0	7658.0	7729.6	7816.6	7884.7	7952.8	8024.5	8092.6	8168.1	8259.0	8360.9
20°	7510.5	7620.1	7707.0	7809.0	7880.9	7956.5	8028.4	8103.8	8183.3	8277.8	8364.8
22.5°	7404.7	7533.2	7631.5	7741.1	7824.2	7899.7	7971.7	8047.2	8134.2	8224.9	8315.6
25°	7264.8	7385.7	7491.6	7604.9	7688.2	7771.2	7839.4	7926.4	8005.6	8092.6	8164.4
27.5°	7053.1	7181.6	7283.6	7401.0	7476.4	7555.9	7612.5	7684.5	7760.0	7831.8	7888.5
30°	6735.6	6852.8	6958.6	7064.4	7140.0	7196.8	7257.1	7314.0	7363.2	7412.2	7461.3
32.5°	6270.6	6376.6	6478.7	6576.8	6637.3	6686.5	6731.8	6765.9	6792.4	6818.7	6822.5
35°	5632.0	5718.8	5783.0	5870.0	5926.8	5972.1	5972.1	5987.1	5983.4	5972.1	5960.7
37.5°	4917.6	4951.5	4977.9	5012.0	5015.7	5015.7	4993.2	4974.2	4944.1	4936.4	4913.7
40°	4172.9	4127.5	4093.4	4048.2	4021.7	3965.0	3916.0	3881.9	3832.7	3825.2	3817.6
42.5°	3466.0	3360.2	3265.8	3186.4	3095.8	3016.3	2944.5	2891.6	2853.8	2849.9	2853.8
45°	2891.6	2770.6	2630.7	2521.1	2419.1	2320.8	2226.3	2162.1	2128.0	2120.4	2128.0
47.5°	2456.9	2317.1	2180.9	2056.1	1946.6	1837.0	1742.5	1655.5	1614.0	1602.6	1598.9
50°	2113.0	1969.4	1825.5	1697.1	1576.1	1466.5	1349.3	1266.3	1213.4	1194.4	1179.3
52.5°	1776.6	1648.1	1500.6	1368.3	1247.3	1118.8	997.9	903.3	850.4	827.9	812.6
55°	1481.7	1353.3	1217.1	1088.6	960.1	831.6	710.5	619.8	563.2	536.7	517.8
57.5°	1183.0	1062.1	945.0	816.5	710.5	585.9	464.9	385.5	336.4	306.1	291.1
60°	914.6	820.2	718.1	612.4	510.3	408.3	310.0	234.3	196.5	174.0	154.9
62.5°	691.7	612.4	544.2	453.6	374.2	287.2	211.8	151.2	117.1	98.3	90.7
65°	499.0	438.4	377.9	321.3	264.7	200.4	143.6	98.3	67.9	56.6	52.9
67.5°	355.4	306.1	260.7	223.0	181.4	143.6	102.0	67.9	52.9	45.4	41.6
70°	249.4	211.8	181.4	147.5	120.8	94.4	79.4	49.2	30.2	34.1	26.5
72.5°	166.4	139.9	124.8	102.0	83.1	67.9	49.2	34.1	34.1	26.5	22.8
75°	90.7	83.1	64.2	49.2	41.6	37.8	15.1	7.6	3.7	11.3	3.7
77.5°	64.2	56.6	49.2	41.6	34.1	26.5	15.1	15.1	11.3	15.1	7.6
80°	41.6	34.1	30.2	30.2	18.8	11.3	7.6	7.6	11.3	3.7	3.7
82.5°	26.5	22.8	18.8	18.8	18.8	11.3	11.3	11.3	11.3	7.6	7.6
85°	15.1	11.3	7.6	7.6	3.7	7.6	0.0	3.7	3.7	0.0	0.0
87.5°	7.6	3.7	3.7	3.7	3.7	0.0	0.0	3.7	0.0	3.7	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8	8088.8
2.5°	8153.0	8168.1	8187.1	8202.1	8236.2	8243.7	8259.0	8274.1	8285.4	8296.6	8300.4
5°	8205.9	8262.7	8315.6	8372.2	8444.0	8493.3	8549.9	8599.1	8648.2	8689.8	8719.9
7.5°	8221.2	8308.0	8387.4	8485.6	8591.5	8682.3	8776.8	8871.1	8969.5	9045.1	9109.4
10°	8251.3	8357.2	8459.2	8576.3	8712.5	8833.4	8950.5	9075.3	9200.0	9305.9	9400.5
12.5°	8304.3	8421.4	8531.0	8659.6	8799.4	8935.4	9064.0	9203.7	9336.2	9453.4	9559.1
15°	8391.2	8500.8	8606.7	8727.5	8867.4	8992.2	9120.7	9256.7	9389.0	9510.0	9608.3
17.5°	8447.9	8549.9	8655.7	8765.3	8882.5	8995.9	9116.9	9237.8	9358.8	9468.4	9559.1
20°	8447.9	8546.2	8625.5	8723.8	8833.4	8931.7	9030.0	9135.8	9241.6	9332.3	9419.3
22.5°	8379.8	8474.3	8534.8	8610.4	8704.9	8788.1	8841.0	8958.1	9037.5	9116.9	9181.1
25°	8221.2	8289.1	8338.3	8391.2	8466.8	8523.4	8568.9	8636.9	8716.2	8746.5	8791.8
27.5°	7933.8	7983.0	8009.4	8020.8	8058.5	8088.8	8096.4	8126.6	8160.7	8168.1	8187.1
30°	7480.3	7484.0	7472.7	7468.9	7449.9	7427.4	7423.5	7419.8	7404.7	7389.6	7393.3
32.5°	6796.1	6777.2	6731.8	6682.7	6633.6	6580.7	6550.3	6512.6	6489.8	6467.3	6440.8
35°	5911.6	5866.3	5802.1	5741.5	5684.9	5643.2	5575.2	5525.5	5529.9	5499.6	5492.1
37.5°	4872.1	4845.7	4785.2	4739.9	4709.8	4690.7	4656.6	4634.1	4634.1	4622.8	4615.2
40°	3798.6	3791.2	3768.5	3779.8	3764.8	3772.2	3768.5	3760.8	3779.8	3779.8	3787.4
42.5°	2849.9	2853.8	2865.2	2872.7	2895.3	2899.1	2918.1	2918.1	2929.4	2940.6	2948.2
45°	2120.4	2135.6	2135.6	2150.8	2173.5	2177.2	2184.6	2188.5	2196.0	2215.0	2222.5
47.5°	1591.3	1595.0	1595.0	1598.9	1606.4	1614.0	1610.2	1614.0	1625.3	1617.7	1625.3
50°	1175.6	1179.3	1168.0	1156.5	1168.0	1168.0	1164.2	1152.8	1164.2	1149.1	1156.5
52.5°	801.4	797.5	786.2	790.1	782.5	778.6	778.6	771.0	771.0	771.0	756.0
55°	506.6	506.6	499.0	499.0	495.3	487.6	483.8	480.0	476.2	472.5	472.5
57.5°	283.5	287.2	276.0	272.1	276.0	272.1	264.7	264.7	264.7	253.2	260.7
60°	154.9	151.2	147.5	143.6	139.9	143.6	143.6	136.1	136.1	136.1	139.9
62.5°	83.1	83.1	79.4	79.4	75.7	75.7	83.1	71.9	75.7	71.9	75.7
65°	45.4	56.6	41.6	41.6	52.9	49.2	45.4	45.4	49.2	41.6	45.4
67.5°	49.2	34.1	30.2	34.1	30.2	30.2	30.2	37.8	34.1	26.5	34.1
70°	22.8	26.5	26.5	18.8	30.2	15.1	26.5	15.1	22.8	18.8	22.8
72.5°	22.8	22.8	22.8	15.1	22.8	15.1	18.8	18.8	15.1	15.1	22.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.6	7.6	3.7	3.7	3.7	3.7	7.6	7.6	7.6	0.0	3.7
80°	7.6	7.6	0.0	3.7	0.0	0.0	3.7	0.0	3.7	0.0	7.6
82.5°	3.7	7.6	3.7	3.7	7.6	7.6	7.6	3.7	3.7	3.7	3.7
85°	0.0	3.7	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	3.7
87.5°	0.0	3.7	0.0	0.0	0.0	0.0	3.7	3.7	0.0	0.0	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



TEST NUMBER: P250285

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8088.8	8088.8	8088.8	8088.8
2.5°	8304.3	8308.0	8315.6	8311.9
5°	8742.7	8772.9	8788.1	8784.4
7.5°	9154.6	9207.7	9237.8	9237.8
10°	9472.2	9532.6	9577.9	9585.6
12.5°	9642.2	9710.3	9770.9	9755.6
15°	9691.4	9759.5	9819.8	9808.5
17.5°	9634.8	9702.7	9748.2	9740.6
20°	9479.8	9536.5	9581.9	9577.9
22.5°	9237.8	9287.0	9324.8	9321.0
25°	8829.7	8863.7	8893.9	8878.8
27.5°	8202.1	8213.6	8232.4	8209.8
30°	7366.9	7374.4	7382.0	7378.2
32.5°	6429.5	6425.6	6418.2	6410.6
35°	5480.8	5480.8	5484.5	5461.7
37.5°	4618.9	4615.2	4626.5	4615.2
40°	3794.9	3791.2	3806.2	3787.4
42.5°	2959.6	2971.0	2974.7	2974.7
45°	2226.3	2230.1	2233.8	2233.8
47.5°	1625.3	1629.0	1648.1	1625.3
50°	1149.1	1152.8	1156.5	1149.1
52.5°	759.7	763.6	759.7	748.4
55°	464.9	468.8	468.8	468.8
57.5°	249.4	253.2	253.2	249.4
60°	136.1	132.3	136.1	128.5
62.5°	71.9	79.4	75.7	67.9
65°	45.4	45.4	45.4	52.9
67.5°	37.8	30.2	34.1	26.5
70°	22.8	26.5	26.5	18.8
72.5°	18.8	18.8	18.8	22.8
75°	0.0	0.0	0.0	0.0
77.5°	7.6	7.6	7.6	3.7
80°	3.7	0.0	3.7	0.0
82.5°	3.7	3.7	7.6	3.7
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)