

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: P250278

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250278
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 EC8B1509727 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11535.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

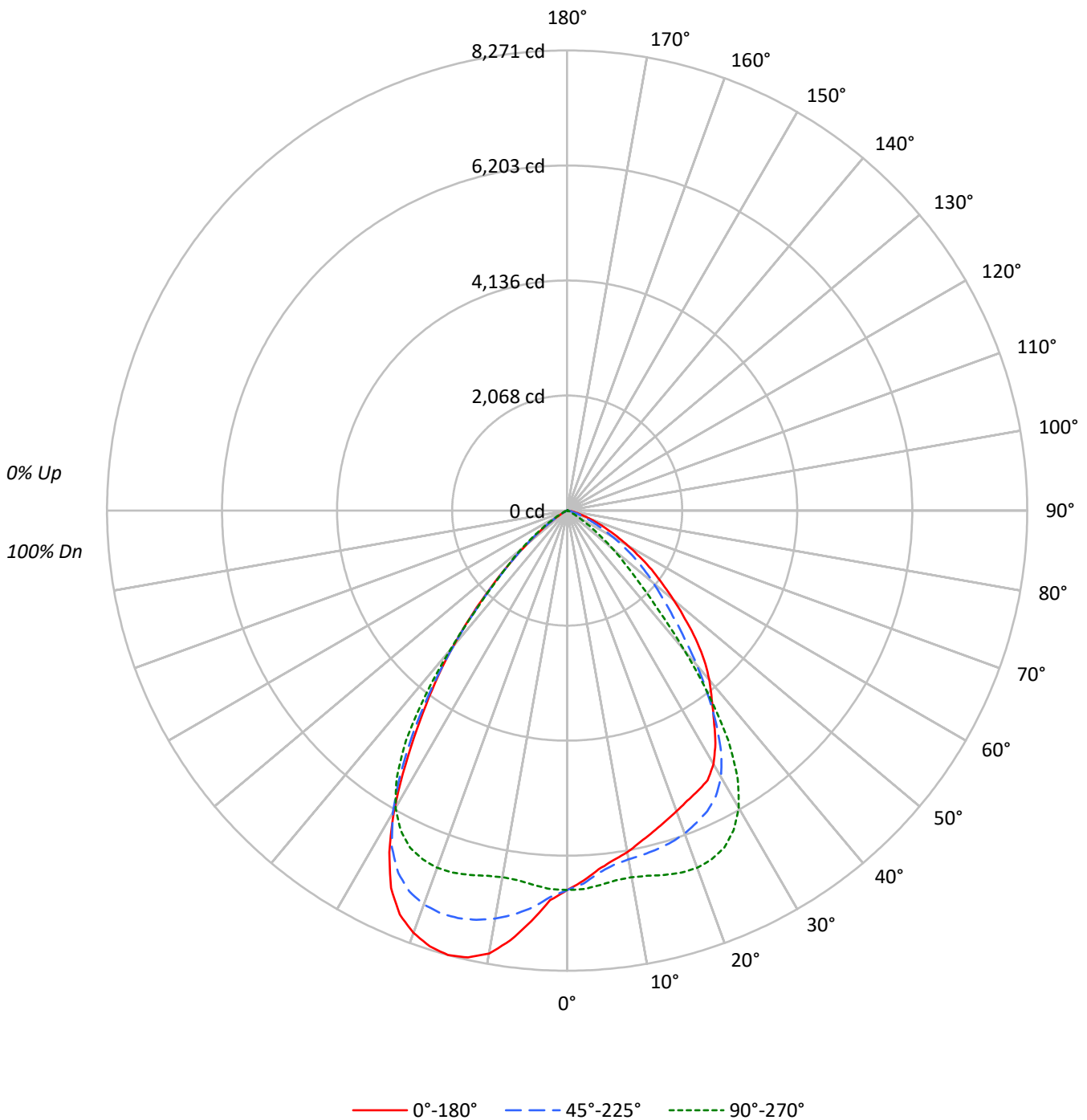
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

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



TEST NUMBER: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	5.7
10°-20°	1962.4	17.0
20°-30°	3005.3	26.1
30°-40°	2946.2	25.5
40°-50°	1774.2	15.4
50°-60°	816.6	7.1
60°-70°	286.9	2.5
70°-80°	75.0	0.7
80°-90°	12.8	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°	5623.4	48.8
0°-40°	8569.5	74.3
0°-60°	11160.3	96.8
0°-90°	11535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11535.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6821	6821	6821	6821	6821	
5°	6473	6534	6757	7162	7407	611
15°	5976	6298	6779	7582	8271	1688
25°	5558	5960	6684	7187	7487	2560
35°	4599	4663	5049	4758	4606	2880
45°	3267	2690	1823	1836	1884	2505
55°	1855	1469	523	411	395	1655
65°	787	545	83	42	45	802
75°	204	118	6	0	0	247
85°	32	16	3	0	0	44
90°	0	0	0	0	0	



TEST NUMBER: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7
2.5°	6661.3	6667.7	6667.7	6667.7	6680.4	6683.7	6680.4	6683.7	6690.0	6712.3	6721.9
5°	6473.3	6463.7	6470.1	6466.9	6482.9	6492.4	6486.0	6495.6	6517.9	6533.9	6549.8
7.5°	6339.5	6339.5	6339.5	6345.8	6355.3	6374.5	6371.3	6377.6	6399.9	6422.2	6444.5
10°	6234.3	6231.1	6231.1	6247.0	6259.7	6282.0	6288.4	6307.6	6336.2	6364.9	6390.4
12.5°	6097.2	6100.4	6116.3	6132.3	6160.9	6195.9	6215.1	6240.7	6285.3	6333.0	6361.8
15°	5976.1	5979.2	5992.1	6023.8	6059.0	6100.4	6141.8	6183.2	6237.4	6298.0	6349.0
17.5°	5858.1	5861.3	5870.9	5906.0	5950.6	6004.8	6052.6	6106.7	6176.9	6247.0	6310.7
20°	5749.8	5746.6	5762.5	5794.4	5851.8	5902.7	5950.6	6014.4	6090.9	6176.9	6250.1
22.5°	5644.6	5644.6	5660.6	5692.4	5743.5	5794.4	5845.4	5912.3	5988.8	6071.7	6157.8
25°	5558.5	5555.3	5577.7	5593.7	5631.8	5682.9	5737.0	5791.2	5867.7	5960.2	6043.0
27.5°	5466.1	5463.0	5466.1	5485.3	5520.3	5558.5	5600.0	5647.8	5711.6	5788.1	5867.7
30°	5262.1	5265.3	5265.3	5281.3	5300.4	5341.8	5364.1	5412.0	5469.3	5533.0	5603.2
32.5°	4959.4	4962.5	4962.5	4968.9	4984.8	5004.0	5023.1	5058.1	5102.7	5156.9	5220.7
35°	4599.2	4599.2	4596.0	4599.2	4608.8	4608.8	4624.7	4608.8	4631.1	4663.0	4710.8
37.5°	4267.7	4261.3	4255.0	4248.6	4239.0	4223.1	4200.8	4162.5	4152.9	4140.2	4143.4
40°	3974.5	3971.4	3952.2	3936.2	3904.3	3866.2	3812.0	3745.1	3690.9	3627.1	3572.9
42.5°	3649.4	3646.1	3630.3	3601.5	3566.5	3509.2	3423.1	3333.9	3225.6	3129.9	3031.1
45°	3266.9	3276.5	3254.2	3222.3	3180.8	3126.6	3031.1	2922.6	2814.3	2690.0	2565.7
47.5°	2868.5	2865.3	2849.4	2830.3	2795.3	2741.1	2677.3	2559.4	2444.6	2329.9	2202.4
50°	2498.8	2486.0	2479.6	2460.6	2438.3	2393.7	2326.6	2231.0	2129.1	2020.7	1902.8
52.5°	2148.2	2148.2	2132.2	2119.5	2100.3	2065.3	2008.0	1931.5	1845.4	1743.4	1619.1
55°	1855.0	1848.6	1832.7	1816.7	1797.6	1775.3	1724.4	1660.6	1568.1	1469.3	1361.0
57.5°	1542.7	1539.4	1533.1	1513.9	1504.3	1482.0	1424.7	1361.0	1281.3	1195.3	1105.9
60°	1262.2	1249.4	1236.6	1223.9	1208.0	1185.7	1147.4	1093.2	1026.3	949.8	860.6
62.5°	1010.4	1029.4	991.3	991.3	959.4	940.2	905.2	873.3	803.1	733.1	656.6
65°	787.3	787.3	771.3	758.5	739.4	717.1	682.1	650.2	599.1	545.0	490.8
67.5°	602.4	599.1	583.3	570.5	554.5	541.8	516.4	478.1	439.9	395.3	350.5
70°	443.0	439.9	436.6	414.3	401.6	385.7	366.5	341.1	312.4	280.5	239.0
72.5°	318.7	318.7	309.2	299.6	286.9	274.1	255.0	239.0	213.6	191.3	162.5
75°	204.0	200.9	200.9	184.8	184.8	165.7	153.0	143.4	130.7	117.9	92.5
77.5°	146.7	143.4	140.2	133.8	127.5	121.1	111.5	98.8	89.2	76.5	66.9
80°	98.8	92.5	89.2	89.2	79.6	76.5	79.6	60.6	57.3	47.8	41.5
82.5°	60.6	60.6	57.3	57.3	54.2	51.0	41.5	41.5	38.3	35.0	28.7
85°	31.9	41.5	28.7	31.9	28.7	31.9	28.7	22.3	19.2	15.9	15.9
87.5°	19.2	12.7	12.7	19.2	15.9	12.7	12.7	12.7	9.6	6.4	6.4
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: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7
2.5°	6715.6	6737.9	6734.6	6763.3	6772.9	6795.2	6795.2	6811.1	6820.7	6843.0	6862.1
5°	6556.2	6591.2	6600.8	6635.8	6664.6	6699.6	6721.9	6756.9	6788.8	6836.7	6881.3
7.5°	6457.4	6486.0	6505.2	6546.6	6578.5	6616.7	6655.0	6702.7	6747.3	6804.8	6868.6
10°	6409.5	6447.8	6476.4	6517.9	6556.2	6597.6	6635.8	6690.0	6741.0	6814.4	6884.4
12.5°	6396.8	6441.4	6476.4	6533.9	6572.1	6616.7	6661.3	6721.9	6776.1	6852.5	6932.3
15°	6396.8	6457.4	6505.2	6568.9	6613.5	6670.9	6718.7	6779.2	6839.8	6919.5	6995.9
17.5°	6384.1	6457.4	6517.9	6591.2	6648.5	6706.0	6766.5	6823.9	6887.6	6964.2	7050.1
20°	6333.0	6425.5	6498.7	6584.8	6645.4	6709.2	6769.8	6833.4	6900.4	6980.1	7053.4
22.5°	6243.8	6352.2	6435.1	6527.5	6597.6	6661.3	6721.9	6785.6	6859.0	6935.5	7011.9
25°	6125.9	6227.8	6317.2	6412.7	6482.9	6552.9	6610.4	6683.7	6750.6	6823.9	6884.4
27.5°	5947.3	6055.7	6141.8	6240.7	6304.3	6371.3	6419.1	6479.7	6543.5	6603.9	6651.8
30°	5679.7	5778.5	5867.7	5956.9	6020.7	6068.6	6119.5	6167.3	6208.8	6250.1	6291.6
32.5°	5287.6	5376.9	5463.0	5545.8	5596.8	5638.3	5676.4	5705.2	5727.5	5749.8	5752.9
35°	4749.1	4822.3	4876.4	4949.8	4997.7	5035.8	5035.8	5048.6	5045.4	5035.8	5026.3
37.5°	4146.6	4175.2	4197.5	4226.3	4229.4	4229.4	4210.4	4194.4	4168.9	4162.5	4143.4
40°	3518.8	3480.5	3451.7	3413.5	3391.2	3343.4	3302.0	3273.3	3231.9	3225.6	3219.1
42.5°	2922.6	2833.4	2753.8	2686.9	2610.4	2543.4	2482.9	2438.3	2406.4	2403.1	2406.4
45°	2438.3	2336.2	2218.3	2125.9	2039.9	1957.0	1877.3	1823.1	1794.4	1788.0	1794.4
47.5°	2071.7	1953.8	1839.0	1733.8	1641.4	1549.0	1469.3	1396.0	1361.0	1351.4	1348.2
50°	1781.7	1660.6	1539.4	1431.0	1329.1	1236.6	1137.8	1067.8	1023.1	1007.1	994.4
52.5°	1498.1	1389.7	1265.3	1153.8	1051.7	943.4	841.4	761.7	717.1	698.1	685.2
55°	1249.4	1141.1	1026.3	917.9	809.6	701.2	599.1	522.7	474.9	452.6	436.6
57.5°	997.6	895.6	796.8	688.5	599.1	494.1	392.0	325.1	283.6	258.2	245.5
60°	771.3	691.6	605.6	516.4	430.3	344.2	261.3	197.6	165.7	146.7	130.7
62.5°	583.3	516.4	458.9	382.4	315.5	242.2	178.5	127.5	98.8	82.9	76.5
65°	420.7	369.7	318.7	270.9	223.2	169.0	121.1	82.9	57.3	47.8	44.6
67.5°	299.6	258.2	219.9	188.0	153.0	121.1	86.1	57.3	44.6	38.3	35.0
70°	210.3	178.5	153.0	124.4	101.9	79.6	66.9	41.5	25.5	28.7	22.3
72.5°	140.2	117.9	105.2	86.1	70.1	57.3	41.5	28.7	28.7	22.3	19.2
75°	76.5	70.1	54.2	41.5	35.0	31.9	12.7	6.4	3.1	9.6	3.1
77.5°	54.2	47.8	41.5	35.0	28.7	22.3	12.7	12.7	9.6	12.7	6.4
80°	35.0	28.7	25.5	25.5	15.9	9.6	6.4	6.4	9.6	3.1	3.1
82.5°	22.3	19.2	15.9	15.9	15.9	9.6	9.6	9.6	9.6	6.4	6.4
85°	12.7	9.6	6.4	6.4	3.1	6.4	0.0	3.1	3.1	0.0	0.0
87.5°	6.4	3.1	3.1	3.1	3.1	0.0	0.0	3.1	0.0	3.1	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: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7	6820.7
2.5°	6874.9	6887.6	6903.6	6916.3	6945.0	6951.3	6964.2	6976.9	6986.5	6995.9	6999.2
5°	6919.5	6967.3	7011.9	7059.7	7120.3	7161.8	7209.5	7251.0	7292.4	7327.5	7352.9
7.5°	6932.3	7005.5	7072.6	7155.3	7244.5	7321.2	7400.8	7480.4	7563.3	7627.1	7681.3
10°	6957.8	7047.0	7133.0	7231.8	7346.6	7448.5	7547.3	7652.5	7757.8	7847.0	7926.7
12.5°	7002.4	7101.2	7193.6	7302.0	7419.9	7534.6	7643.0	7760.9	7872.5	7971.3	8060.5
15°	7075.7	7168.1	7257.4	7359.3	7477.3	7582.5	7690.8	7805.5	7917.2	8019.1	8102.0
17.5°	7123.5	7209.5	7298.7	7391.2	7490.0	7585.6	7687.6	7789.6	7891.6	7984.1	8060.5
20°	7123.5	7206.4	7273.3	7356.2	7448.5	7531.5	7614.4	7703.6	7792.8	7869.3	7942.6
22.5°	7066.1	7145.8	7196.8	7260.5	7340.2	7410.4	7455.0	7553.8	7620.7	7687.6	7741.8
25°	6932.3	6989.6	7031.1	7075.7	7139.5	7187.2	7225.5	7282.9	7349.8	7375.3	7413.5
27.5°	6690.0	6731.5	6753.8	6763.3	6795.2	6820.7	6827.1	6852.5	6881.3	6887.6	6903.6
30°	6307.6	6310.7	6301.2	6298.0	6282.0	6263.0	6259.7	6256.6	6243.8	6231.1	6234.3
32.5°	5730.6	5714.7	5676.4	5635.1	5593.7	5549.1	5523.5	5491.6	5472.4	5453.4	5431.1
35°	4984.8	4946.6	4892.4	4841.4	4793.7	4758.5	4701.2	4682.0	4663.0	4637.4	4631.1
37.5°	4108.3	4086.0	4035.0	3996.8	3971.4	3955.4	3926.6	3907.6	3907.6	3898.0	3891.6
40°	3203.1	3196.8	3177.7	3187.2	3174.5	3180.8	3177.7	3171.2	3187.2	3187.2	3193.7
42.5°	2403.1	2406.4	2416.0	2422.3	2441.4	2444.6	2460.6	2460.6	2470.2	2479.6	2486.0
45°	1788.0	1800.8	1800.8	1813.6	1832.7	1835.9	1842.2	1845.4	1851.7	1867.7	1874.0
47.5°	1341.8	1345.0	1345.0	1348.2	1354.5	1361.0	1357.8	1361.0	1370.5	1364.1	1370.5
50°	991.3	994.4	984.8	975.3	984.8	984.8	981.7	972.1	981.7	969.0	975.3
52.5°	675.8	672.5	662.9	666.2	659.8	656.6	656.6	650.2	650.2	650.2	637.4
55°	427.2	427.2	420.7	420.7	417.6	411.1	408.0	404.7	401.6	398.4	398.4
57.5°	239.0	242.2	232.7	229.5	232.7	229.5	223.2	223.2	223.2	213.6	219.9
60°	130.7	127.5	124.4	121.1	117.9	121.1	121.1	114.8	114.8	114.8	117.9
62.5°	70.1	70.1	66.9	66.9	63.8	63.8	70.1	60.6	63.8	60.6	63.8
65°	38.3	47.8	35.0	35.0	44.6	41.5	38.3	38.3	41.5	35.0	38.3
67.5°	41.5	28.7	25.5	28.7	25.5	25.5	25.5	31.9	28.7	22.3	28.7
70°	19.2	22.3	22.3	15.9	25.5	12.7	22.3	12.7	19.2	15.9	19.2
72.5°	19.2	19.2	19.2	12.7	19.2	12.7	15.9	15.9	12.7	12.7	19.2
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°	6.4	6.4	3.1	3.1	3.1	3.1	6.4	6.4	6.4	0.0	3.1
80°	6.4	6.4	0.0	3.1	0.0	0.0	3.1	0.0	3.1	0.0	6.4
82.5°	3.1	6.4	3.1	3.1	6.4	6.4	6.4	3.1	3.1	3.1	3.1
85°	0.0	3.1	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	3.1
87.5°	0.0	3.1	0.0	0.0	0.0	0.0	3.1	3.1	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: P250278

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6820.7	6820.7	6820.7	6820.7
2.5°	7002.4	7005.5	7011.9	7008.8
5°	7372.1	7397.6	7410.4	7407.2
7.5°	7719.4	7764.2	7789.6	7789.6
10°	7987.2	8038.2	8076.4	8082.8
12.5°	8130.6	8188.1	8239.1	8226.2
15°	8172.1	8229.5	8280.4	8270.8
17.5°	8124.3	8181.6	8219.9	8213.5
20°	7993.6	8041.4	8079.7	8076.4
22.5°	7789.6	7831.1	7863.0	7859.7
25°	7445.4	7474.1	7499.6	7486.8
27.5°	6916.3	6925.9	6941.8	6922.7
30°	6212.0	6218.2	6224.7	6221.5
32.5°	5421.5	5418.3	5412.0	5405.5
35°	4621.5	4621.5	4624.7	4605.5
37.5°	3894.8	3891.6	3901.2	3891.6
40°	3200.0	3196.8	3209.5	3193.7
42.5°	2495.6	2505.2	2508.3	2508.3
45°	1877.3	1880.5	1883.6	1883.6
47.5°	1370.5	1373.7	1389.7	1370.5
50°	969.0	972.1	975.3	969.0
52.5°	640.6	643.9	640.6	631.0
55°	392.0	395.3	395.3	395.3
57.5°	210.3	213.6	213.6	210.3
60°	114.8	111.5	114.8	108.4
62.5°	60.6	66.9	63.8	57.3
65°	38.3	38.3	38.3	44.6
67.5°	31.9	25.5	28.7	22.3
70°	19.2	22.3	22.3	15.9
72.5°	15.9	15.9	15.9	19.2
75°	0.0	0.0	0.0	0.0
77.5°	6.4	6.4	6.4	3.1
80°	3.1	0.0	3.1	0.0
82.5°	3.1	3.1	6.4	3.1
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)