

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: P248467

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248467
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: LSR8B150D010 EC8B150840 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16485.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

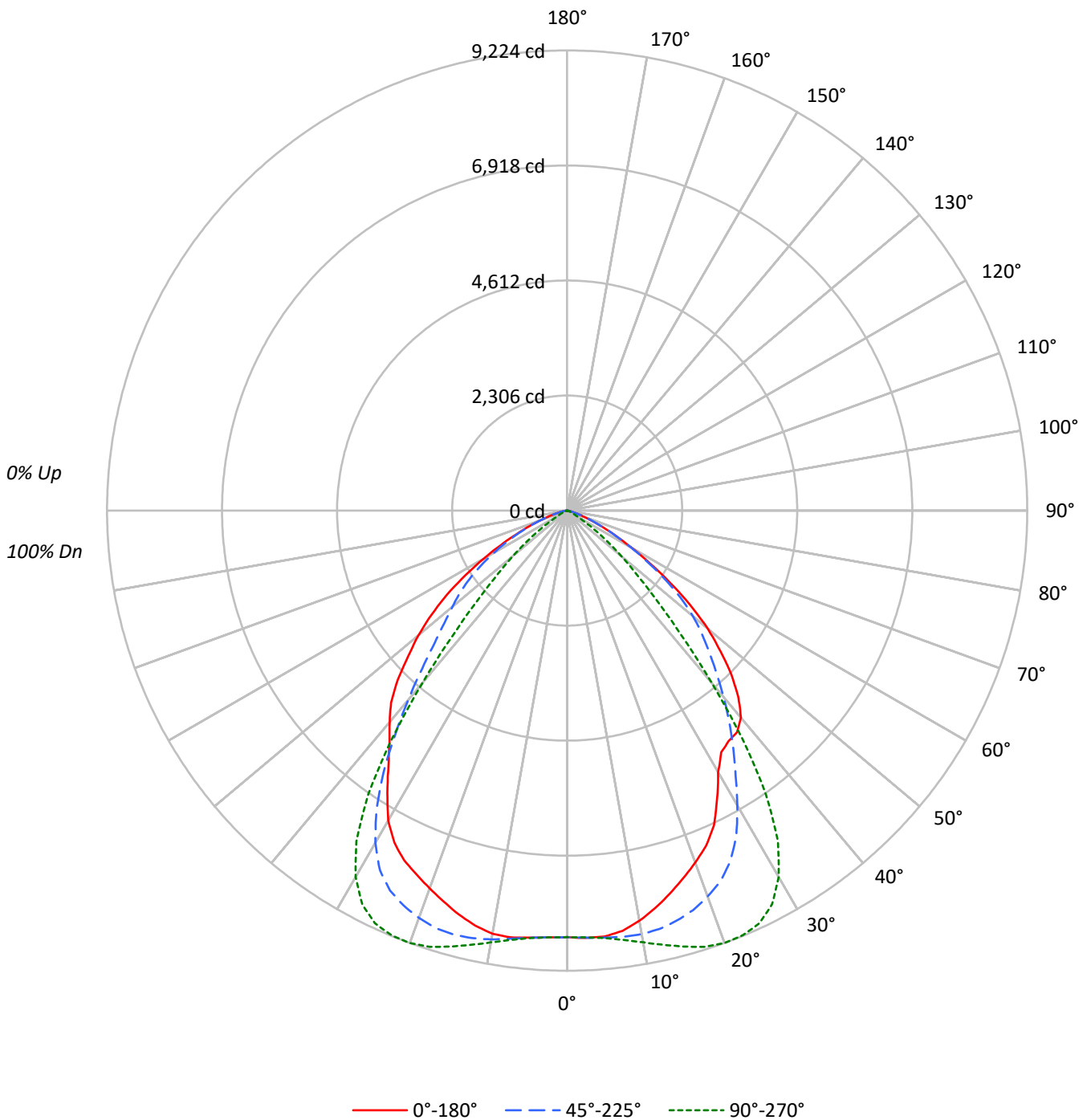
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	263706	263706	263706
5°	265277	266261	265979
10°	261380	275170	269769
15°	253739	288805	267648
20°	246374	302679	264396
25°	236913	310429	263170
30°	215609	301920	255368
35°	212396	261612	234952
40°	218172	181441	222737
45°	203101	109664	209433
50°	176166	67723	186619
55°	135194	35386	158376
60°	92102	14277	119534
65°	57292	7282	82465
70°	31105	4508	50336
75°	16227	2156	29750
80°	7263	2433	16106
85°	4847	1628	14471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.4	5.0
10°-20°	2436.3	14.8
20°-30°	3716.8	22.5
30°-40°	3878.6	23.5
40°-50°	2913.3	17.7
50°-60°	1792.5	10.9
60°-70°	729.5	4.4
70°-80°	171.9	1.0
80°-90°	23.7	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°	6975.6	42.3
0°-40°	10854.2	65.8
0°-60°	15560.0	94.4
0°-90°	16485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8552	8552	8552	8552	8552	
5°	8570	8593	8602	8593	8593	811
15°	7948	8506	9047	8797	8384	2239
25°	6963	7744	9124	8402	7735	3166
35°	5642	5801	6950	6423	6241	3563
45°	4657	4031	2515	3754	4802	3553
55°	2515	2388	658	2388	2946	2260
65°	785	794	100	1067	1130	819
75°	136	136	18	241	250	164
85°	14	14	5	32	41	19
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°	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8
2.5°	8574.6	8560.9	8574.6	8574.6	8579.2	8570.0	8574.6	8579.2	8570.0	8570.0	8570.0
5°	8570.0	8560.9	8570.0	8565.5	8574.6	8574.6	8583.7	8583.7	8592.7	8592.7	8606.4
7.5°	8497.4	8479.3	8497.4	8511.1	8520.1	8538.3	8560.9	8579.2	8597.3	8615.5	8638.1
10°	8347.6	8347.6	8361.2	8388.5	8415.7	8447.4	8488.3	8533.7	8579.2	8619.9	8660.8
12.5°	8161.5	8147.9	8175.1	8211.4	8252.3	8302.3	8365.8	8433.9	8506.5	8588.2	8651.8
15°	7948.2	7934.5	7966.3	8002.6	8052.6	8125.2	8202.4	8293.2	8397.6	8506.5	8610.9
17.5°	7730.3	7725.7	7757.5	7807.5	7848.3	7925.4	8025.4	8134.2	8252.3	8397.6	8533.7
20°	7507.9	7503.4	7535.1	7576.0	7630.4	7703.1	7802.9	7930.0	8070.7	8234.2	8393.0
22.5°	7276.3	7280.9	7308.1	7353.5	7399.0	7476.0	7580.4	7707.6	7861.9	8038.9	8216.0
25°	6963.1	6940.5	6976.8	7022.2	7099.3	7162.8	7262.8	7399.0	7557.8	7743.9	7952.7
27.5°	6509.2	6504.6	6536.5	6577.3	6645.4	6722.6	6831.5	6972.2	7140.2	7344.4	7548.7
30°	6055.3	6064.4	6078.0	6118.9	6164.2	6241.4	6350.4	6468.4	6627.3	6822.4	7040.3
32.5°	5746.6	5746.6	5764.8	5792.0	5823.8	5864.7	5941.9	6028.1	6150.7	6286.8	6445.7
35°	5642.2	5624.1	5642.2	5646.8	5651.3	5660.4	5674.0	5701.3	5742.1	5801.1	5860.1
37.5°	5596.9	5583.2	5583.2	5565.1	5542.4	5515.1	5478.8	5438.0	5392.6	5333.6	5288.2
40°	5419.9	5410.7	5401.6	5383.5	5333.6	5279.1	5220.0	5124.7	5020.3	4875.1	4729.9
42.5°	5079.4	5070.3	5065.8	5029.5	4984.0	4920.5	4852.4	4752.6	4620.9	4434.8	4226.0
45°	4657.3	4639.1	4625.5	4593.7	4561.9	4507.4	4443.9	4353.1	4221.4	4030.8	3781.2
47.5°	4167.0	4157.9	4153.4	4139.8	4108.0	4076.2	4035.4	3962.8	3844.7	3663.1	3404.4
50°	3672.2	3654.1	3663.1	3658.7	3645.0	3622.3	3595.0	3545.2	3454.3	3290.9	3054.9
52.5°	3104.8	3104.8	3100.3	3113.9	3118.4	3113.9	3118.4	3064.0	2986.8	2864.2	2664.5
55°	2514.7	2514.7	2528.3	2546.5	2564.7	2569.2	2564.7	2542.0	2487.5	2387.6	2210.6
57.5°	1960.9	1951.9	1979.1	2006.3	2024.5	2042.6	2029.0	2010.9	1979.1	1897.4	1761.2
60°	1493.4	1493.4	1511.5	1529.7	1547.8	1566.0	1561.5	1556.9	1529.7	1475.2	1366.3
62.5°	1098.5	1103.0	1103.0	1116.7	1134.8	1153.0	1166.5	1153.0	1139.3	1103.0	1030.4
65°	785.2	780.7	785.2	798.9	812.6	830.7	839.8	835.2	821.6	794.4	739.9
67.5°	526.6	522.0	540.1	544.7	553.8	572.0	567.4	572.0	567.4	544.7	499.4
70°	345.0	335.9	345.0	340.4	354.1	358.6	367.6	372.2	367.6	354.1	340.4
72.5°	213.4	208.8	213.4	217.9	222.5	226.9	236.0	236.0	231.5	222.5	204.3
75°	136.2	122.5	127.1	118.1	127.1	127.1	136.2	140.7	136.2	136.2	127.1
77.5°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	86.3	90.7	81.7	77.2
80°	40.9	40.9	45.4	45.4	45.4	50.0	45.4	45.4	45.4	50.0	36.3
82.5°	31.8	27.2	27.2	27.2	31.8	27.2	27.2	27.2	27.2	27.2	27.2
85°	13.7	18.1	13.7	9.1	13.7	13.7	18.1	13.7	13.7	13.7	18.1
87.5°	4.6	4.6	0.0	0.0	0.0	4.6	0.0	4.6	4.6	9.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8
2.5°	8574.6	8565.5	8565.5	8560.9	8570.0	8560.9	8565.5	8560.9	8560.9	8570.0	8560.9
5°	8606.4	8610.9	8601.8	8597.3	8610.9	8610.9	8610.9	8601.8	8601.8	8606.4	8601.8
7.5°	8651.8	8660.8	8665.3	8669.9	8679.0	8683.6	8683.6	8679.0	8674.5	8688.1	8669.9
10°	8701.7	8715.3	8742.5	8756.2	8778.9	8778.9	8788.0	8788.0	8778.9	8788.0	8783.4
12.5°	8683.6	8765.2	8810.6	8842.4	8874.2	8901.4	8910.5	8915.0	8910.5	8928.7	8910.5
15°	8715.3	8783.4	8856.0	8910.5	8969.4	9001.2	9010.3	9046.6	9055.7	9060.3	9033.1
17.5°	8665.3	8788.0	8865.0	8946.8	9033.1	9092.1	9146.5	9169.3	9173.8	9182.8	9146.5
20°	8551.8	8688.1	8806.1	8924.1	9024.0	9114.7	9160.1	9223.7	9205.6	9241.9	9191.9
22.5°	8397.6	8551.8	8701.7	8856.0	8960.4	9069.4	9164.7	9210.0	9232.8	9232.8	9178.3
25°	8152.4	8334.0	8497.4	8656.2	8815.2	8946.8	9055.7	9123.8	9137.5	9132.9	9069.4
27.5°	7771.1	7966.3	8157.0	8338.6	8533.7	8688.1	8815.2	8896.8	8919.6	8919.6	8851.5
30°	7244.6	7453.4	7639.5	7857.3	8057.1	8229.6	8406.7	8479.3	8520.1	8520.1	8443.0
32.5°	6618.2	6795.2	6967.7	7181.0	7399.0	7594.1	7762.0	7861.9	7911.9	7907.3	7839.2
35°	5937.3	6023.5	6155.2	6314.1	6509.2	6690.8	6854.2	6949.6	7035.8	7031.2	6967.7
37.5°	5256.4	5233.7	5247.4	5306.3	5428.9	5556.0	5683.1	5773.9	5846.5	5878.3	5864.7
40°	4589.2	4471.1	4357.6	4316.8	4325.8	4371.3	4439.4	4507.4	4589.2	4630.1	4648.2
42.5°	3990.0	3790.3	3590.5	3440.7	3354.5	3327.2	3359.0	3381.7	3431.6	3490.6	3549.7
45°	3508.8	3241.0	2977.7	2746.2	2601.0	2514.7	2496.6	2514.7	2542.0	2601.0	2678.2
47.5°	3113.9	2800.7	2505.7	2246.9	2033.5	1920.1	1888.4	1879.3	1906.5	1960.9	2065.3
50°	2764.4	2451.1	2124.4	1824.7	1602.4	1475.2	1429.9	1411.7	1443.4	1484.3	1579.6
52.5°	2383.1	2074.4	1738.5	1448.0	1216.5	1084.9	1034.9	1007.7	1025.8	1080.3	1175.6
55°	1970.0	1684.0	1379.9	1080.3	857.9	735.4	676.3	658.2	676.3	735.4	830.7
57.5°	1556.9	1316.4	1062.1	780.7	581.0	458.5	399.4	381.3	431.3	453.9	553.8
60°	1216.5	1021.4	803.5	572.0	399.4	304.1	245.1	231.5	254.2	295.0	376.7
62.5°	912.4	789.8	617.3	408.5	295.0	195.1	163.4	149.8	163.4	195.1	258.8
65°	662.7	567.4	431.3	299.5	199.7	145.3	109.0	99.8	113.5	136.2	190.7
67.5°	453.9	381.3	299.5	208.8	136.2	90.7	77.2	77.2	81.7	99.8	140.7
70°	295.0	249.7	190.7	136.2	90.7	68.1	59.0	50.0	59.0	72.6	95.3
72.5°	186.1	158.8	122.5	95.3	68.1	50.0	40.9	36.3	45.4	54.4	72.6
75°	113.5	86.3	63.5	50.0	36.3	36.3	36.3	18.1	22.7	36.3	45.4
77.5°	68.1	59.0	50.0	40.9	31.8	18.1	18.1	18.1	22.7	27.2	40.9
80°	36.3	31.8	22.7	22.7	18.1	13.7	18.1	13.7	9.1	22.7	27.2
82.5°	22.7	18.1	18.1	18.1	22.7	9.1	13.7	9.1	13.7	18.1	13.7
85°	13.7	13.7	13.7	9.1	22.7	9.1	9.1	4.6	4.6	9.1	9.1
87.5°	0.0	4.6	4.6	0.0	4.6	0.0	4.6	4.6	4.6	4.6	4.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8	8551.8
2.5°	8565.5	8560.9	8565.5	8560.9	8560.9	8560.9	8565.5	8565.5	8560.9	8560.9	8570.0
5°	8601.8	8601.8	8601.8	8597.3	8592.7	8592.7	8601.8	8601.8	8588.2	8601.8	8601.8
7.5°	8679.0	8665.3	8679.0	8660.8	8651.8	8656.2	8660.8	8651.8	8642.7	8647.2	8647.2
10°	8778.9	8765.2	8765.2	8751.6	8738.0	8728.9	8719.9	8697.1	8674.5	8669.9	8651.8
12.5°	8896.8	8874.2	8860.6	8833.3	8810.6	8778.9	8751.6	8715.3	8669.9	8638.1	8606.4
15°	9014.9	8978.6	8946.8	8901.4	8851.5	8797.0	8738.0	8679.0	8606.4	8542.8	8488.3
17.5°	9110.2	9060.3	9001.2	8928.7	8856.0	8774.3	8688.1	8601.8	8497.4	8415.7	8352.1
20°	9141.9	9069.4	8992.2	8896.8	8801.5	8688.1	8579.2	8465.6	8347.6	8261.4	8188.8
22.5°	9101.2	9014.9	8919.6	8819.7	8692.6	8570.0	8443.0	8311.3	8206.9	8088.9	8020.8
25°	8987.7	8883.3	8778.9	8660.8	8538.3	8402.1	8265.9	8129.8	8002.6	7939.1	7852.9
27.5°	8756.2	8642.7	8529.2	8406.7	8265.9	8129.8	7989.1	7857.3	7748.5	7662.2	7612.3
30°	8347.6	8216.0	8084.4	7952.7	7830.1	7689.4	7557.8	7448.8	7339.9	7271.8	7221.9
32.5°	7721.2	7603.2	7471.6	7344.4	7231.0	7113.0	7004.0	6908.7	6831.5	6786.1	6749.8
35°	6876.9	6758.9	6659.0	6568.3	6472.9	6423.0	6354.9	6300.4	6268.6	6250.5	6246.0
37.5°	5814.7	5746.6	5714.8	5696.7	5678.5	5665.0	5674.0	5696.7	5714.8	5746.6	5782.9
40°	4679.9	4738.9	4757.1	4820.6	4879.6	4956.8	5043.1	5143.0	5224.6	5329.0	5401.6
42.5°	3645.0	3754.0	3881.0	4017.2	4162.5	4303.2	4475.7	4634.5	4779.8	4911.4	5024.9
45°	2800.7	2968.6	3159.3	3354.5	3549.7	3754.0	3962.8	4157.9	4330.4	4471.1	4589.2
47.5°	2183.4	2369.5	2614.6	2855.2	3091.2	3331.8	3563.3	3767.5	3912.8	4049.0	4153.4
50°	1729.4	1942.8	2210.6	2487.5	2746.2	3000.4	3245.5	3436.2	3581.5	3690.4	3767.5
52.5°	1339.0	1593.3	1865.6	2156.1	2433.0	2709.9	2936.8	3113.9	3231.9	3327.2	3386.2
55°	998.6	1248.3	1538.8	1838.4	2119.8	2387.6	2601.0	2755.4	2859.8	2914.2	2945.9
57.5°	721.7	948.7	1239.2	1538.8	1793.0	2047.2	2219.7	2360.4	2419.4	2451.1	2464.8
60°	526.6	735.4	994.1	1252.8	1493.4	1697.7	1847.5	1942.8	1988.2	2006.3	2001.8
62.5°	385.8	567.4	789.8	1007.7	1202.9	1370.8	1488.9	1552.4	1575.2	1584.2	1570.6
65°	295.0	435.7	626.4	794.4	944.2	1066.7	1153.0	1193.9	1207.4	1202.9	1193.9
67.5°	217.9	326.9	467.6	594.7	703.6	798.9	844.3	880.6	889.6	876.1	862.4
70°	154.4	240.6	340.4	426.7	508.4	562.9	612.8	617.3	617.3	612.8	603.8
72.5°	109.0	167.9	231.5	290.5	340.4	381.3	399.4	413.1	408.5	404.0	395.0
75°	72.6	104.4	167.9	181.6	226.9	240.6	258.8	258.8	263.2	249.7	249.7
77.5°	45.4	72.6	99.8	118.1	136.2	154.4	163.4	163.4	167.9	163.4	163.4
80°	27.2	45.4	54.4	81.7	81.7	95.3	99.8	104.4	95.3	109.0	95.3
82.5°	18.1	27.2	40.9	40.9	50.0	59.0	59.0	63.5	63.5	59.0	59.0
85°	13.7	18.1	22.7	27.2	27.2	31.8	27.2	27.2	31.8	36.3	31.8
87.5°	4.6	9.1	4.6	9.1	9.1	18.1	13.7	13.7	13.7	18.1	18.1
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: P248467

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8551.8	8551.8	8551.8	8551.8
2.5°	8560.9	8565.5	8560.9	8560.9
5°	8601.8	8597.3	8601.8	8592.7
7.5°	8633.6	8633.6	8629.0	8629.0
10°	8633.6	8615.5	8615.5	8615.5
12.5°	8565.5	8542.8	8529.2	8520.1
15°	8447.4	8406.7	8388.5	8383.9
17.5°	8293.2	8256.8	8234.2	8220.5
20°	8116.1	8079.8	8052.6	8057.1
22.5°	7961.7	7921.0	7902.8	7893.7
25°	7807.5	7757.5	7743.9	7734.8
27.5°	7557.8	7530.6	7516.9	7503.4
30°	7176.5	7162.8	7140.2	7171.9
32.5°	6736.2	6713.5	6695.3	6709.0
35°	6250.5	6236.9	6250.5	6241.4
37.5°	5805.7	5819.3	5837.5	5846.5
40°	5456.2	5506.0	5524.3	5533.3
42.5°	5106.6	5165.6	5201.9	5224.6
45°	4675.4	4734.3	4775.2	4802.5
47.5°	4230.5	4280.5	4321.3	4316.8
50°	3826.6	3853.8	3871.9	3890.1
52.5°	3418.0	3418.0	3422.5	3422.5
55°	2955.1	2945.9	2941.4	2945.9
57.5°	2446.6	2437.6	2433.0	2419.4
60°	1983.7	1956.4	1938.2	1938.2
62.5°	1552.4	1520.6	1507.1	1502.5
65°	1166.5	1162.0	1134.8	1130.2
67.5°	844.3	826.1	808.0	812.6
70°	594.7	567.4	567.4	558.3
72.5°	385.8	372.2	367.6	367.6
75°	240.6	240.6	231.5	249.7
77.5°	158.8	158.8	154.4	158.8
80°	95.3	95.3	95.3	90.7
82.5°	59.0	63.5	59.0	59.0
85°	31.8	36.3	27.2	40.9
87.5°	18.1	22.7	18.1	22.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)