

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: P248395

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248395  
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 EC8B150935 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14552.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

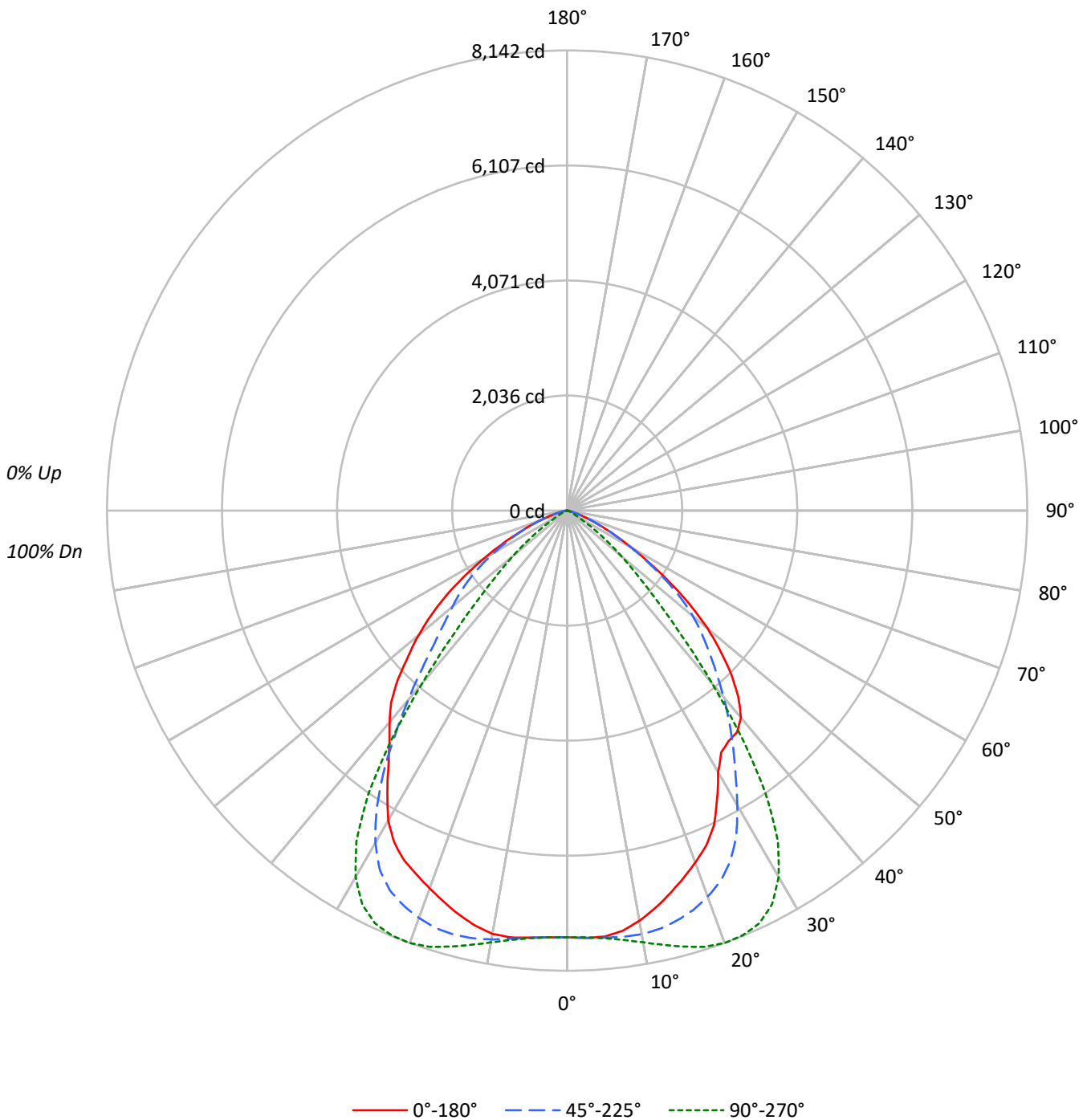
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	232786	232786	232786
5°	234171	235041	234790
10°	230732	242903	238134
15°	223986	254939	236264
20°	217484	267186	233396
25°	209133	274030	232313
30°	190325	266516	225426
35°	187491	230936	207404
40°	192587	160166	196616
45°	179286	96804	184877
50°	155509	59779	164739
55°	119340	31235	139807
60°	81303	12600	105522
65°	50579	6428	72797
70°	27454	3976	44440
75°	14321	1906	26259
80°	6411	2149	14224
85°	4281	1415	12772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.0	5.0
10°-20°	2150.6	14.8
20°-30°	3281.0	22.5
30°-40°	3423.8	23.5
40°-50°	2571.7	17.7
50°-60°	1582.3	10.9
60°-70°	643.9	4.4
70°-80°	151.7	1.0
80°-90°	20.9	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°	6157.6	42.3
0°-40°	9581.4	65.8
0°-60°	13735.4	94.4
0°-90°	14552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14552.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7549	7549	7549	7549	7549	
5°	7565	7585	7593	7585	7585	716
15°	7016	7509	7986	7765	7401	1976
25°	6147	6836	8054	7417	6828	2794
35°	4981	5121	6135	5670	5510	3145
45°	4111	3558	2220	3314	4239	3137
55°	2220	2108	581	2108	2600	1995
65°	693	701	88	942	998	723
75°	120	120	16	212	220	145
85°	12	12	4	28	36	17
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°	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1
2.5°	7569.2	7557.1	7569.2	7569.2	7573.2	7565.1	7569.2	7573.2	7565.1	7565.1	7565.1
5°	7565.1	7557.1	7565.1	7561.1	7569.2	7569.2	7577.2	7577.2	7585.1	7585.1	7597.2
7.5°	7501.0	7485.0	7501.0	7513.1	7521.0	7537.1	7557.1	7573.2	7589.2	7605.2	7625.2
10°	7368.8	7368.8	7380.8	7404.8	7428.9	7456.9	7493.0	7533.1	7573.2	7609.2	7645.2
12.5°	7204.5	7192.5	7216.5	7248.6	7284.6	7328.8	7384.8	7444.9	7509.1	7581.1	7637.3
15°	7016.2	7004.1	7032.2	7064.2	7108.4	7172.5	7240.6	7320.7	7412.9	7509.1	7601.2
17.5°	6823.8	6819.8	6847.9	6892.0	6928.1	6996.1	7084.3	7180.4	7284.6	7412.9	7533.1
20°	6627.5	6623.5	6651.6	6687.7	6735.7	6799.8	6888.0	7000.1	7124.3	7268.7	7408.9
22.5°	6423.1	6427.2	6451.2	6491.3	6531.4	6599.4	6691.6	6803.8	6940.0	7096.3	7252.6
25°	6146.6	6126.6	6158.7	6198.8	6266.9	6322.9	6411.2	6531.4	6671.6	6835.9	7020.2
27.5°	5745.9	5741.9	5770.1	5806.0	5866.1	5934.3	6030.5	6154.7	6302.9	6483.2	6663.5
30°	5345.2	5353.3	5365.3	5401.4	5441.4	5509.6	5605.7	5710.0	5850.2	6022.4	6214.8
32.5°	5072.8	5072.8	5088.9	5112.9	5140.9	5177.0	5245.1	5321.2	5429.5	5549.7	5689.9
35°	4980.6	4964.6	4980.6	4984.6	4988.7	4996.7	5008.7	5032.8	5068.8	5120.9	5173.0
37.5°	4940.6	4928.6	4928.6	4912.6	4892.5	4868.5	4836.4	4800.3	4760.3	4708.2	4668.1
40°	4784.3	4776.3	4768.3	4752.3	4708.2	4660.1	4608.0	4523.8	4431.7	4303.4	4175.3
42.5°	4483.8	4475.8	4471.8	4439.7	4399.6	4343.5	4283.4	4195.3	4079.1	3914.8	3730.5
45°	4111.2	4095.1	4083.1	4055.1	4026.9	3978.9	3922.8	3842.6	3726.4	3558.2	3337.8
47.5°	3678.4	3670.4	3666.3	3654.4	3626.3	3598.2	3562.2	3498.1	3393.9	3233.6	3005.2
50°	3241.6	3225.6	3233.6	3229.7	3217.6	3197.6	3173.5	3129.5	3049.3	2905.0	2696.7
52.5°	2740.7	2740.7	2736.8	2748.8	2752.8	2748.8	2752.8	2704.7	2636.6	2528.4	2352.1
55°	2219.8	2219.8	2231.9	2247.9	2263.9	2267.9	2263.9	2243.9	2195.8	2107.6	1951.4
57.5°	1731.0	1723.0	1747.0	1771.1	1787.1	1803.1	1791.1	1775.1	1747.0	1674.9	1554.7
60°	1318.3	1318.3	1334.3	1350.4	1366.3	1382.4	1378.4	1374.4	1350.4	1302.2	1206.1
62.5°	969.7	973.7	973.7	985.7	1001.7	1017.8	1029.8	1017.8	1005.7	973.7	909.6
65°	693.2	689.2	693.2	705.2	717.3	733.3	741.3	737.3	725.2	701.2	653.2
67.5°	464.8	460.8	476.8	480.8	488.8	504.9	500.9	504.9	500.9	480.8	440.8
70°	304.5	296.5	304.5	300.5	312.6	316.6	324.5	328.5	324.5	312.6	300.5
72.5°	188.3	184.3	188.3	192.4	196.4	200.3	208.3	208.3	204.3	196.4	180.3
75°	120.2	108.1	112.2	104.2	112.2	112.2	120.2	124.2	120.2	120.2	112.2
77.5°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	76.2	80.1	72.2	68.1
80°	36.1	36.1	40.1	40.1	40.1	44.1	40.1	40.1	40.1	44.1	32.1
82.5°	28.0	24.0	24.0	24.0	28.0	24.0	24.0	24.0	24.0	24.0	24.0
85°	12.1	16.0	12.1	8.0	12.1	12.1	16.0	12.1	12.1	12.1	16.0
87.5°	4.0	4.0	0.0	0.0	0.0	4.0	0.0	4.0	4.0	8.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1
2.5°	7569.2	7561.1	7561.1	7557.1	7565.1	7557.1	7561.1	7557.1	7557.1	7565.1	7557.1
5°	7597.2	7601.2	7593.2	7589.2	7601.2	7601.2	7601.2	7593.2	7593.2	7597.2	7593.2
7.5°	7637.3	7645.2	7649.3	7653.3	7661.3	7665.3	7665.3	7661.3	7657.3	7669.4	7653.3
10°	7681.3	7693.4	7717.4	7729.5	7749.5	7749.5	7757.5	7757.5	7749.5	7757.5	7753.5
12.5°	7665.3	7737.4	7777.5	7805.5	7833.6	7857.6	7865.6	7869.7	7865.6	7881.7	7865.6
15°	7693.4	7753.5	7817.6	7865.6	7917.7	7945.7	7953.8	7985.8	7993.9	7997.9	7973.9
17.5°	7649.3	7757.5	7825.5	7897.7	7973.9	8025.9	8074.0	8094.1	8098.1	8106.0	8074.0
20°	7549.1	7669.4	7773.5	7877.7	7965.8	8045.9	8086.0	8142.1	8126.1	8158.2	8114.1
22.5°	7412.9	7549.1	7681.3	7817.6	7909.8	8005.9	8090.1	8130.1	8150.2	8150.2	8102.0
25°	7196.5	7356.8	7501.0	7641.2	7781.5	7897.7	7993.9	8054.0	8066.0	8062.0	8005.9
27.5°	6859.9	7032.2	7200.5	7360.8	7533.1	7669.4	7781.5	7853.6	7873.7	7873.7	7813.6
30°	6395.1	6579.4	6743.7	6936.0	7112.4	7264.6	7420.9	7485.0	7521.0	7521.0	7453.0
32.5°	5842.1	5998.4	6150.7	6339.0	6531.4	6703.6	6851.9	6940.0	6984.1	6980.1	6920.0
35°	5241.1	5317.2	5433.5	5573.7	5745.9	5906.2	6050.5	6134.7	6210.8	6206.7	6150.7
37.5°	4640.0	4620.0	4632.1	4684.1	4792.3	4904.5	5016.7	5096.9	5160.9	5189.1	5177.0
40°	4051.1	3946.8	3846.6	3810.7	3818.6	3858.7	3918.8	3978.9	4051.1	4087.1	4103.1
42.5°	3522.1	3345.8	3169.5	3037.3	2961.1	2937.1	2965.1	2985.1	3029.3	3081.3	3133.5
45°	3097.4	2861.0	2628.5	2424.2	2296.0	2219.8	2203.8	2219.8	2243.9	2296.0	2364.1
47.5°	2748.8	2472.3	2211.9	1983.4	1795.1	1695.0	1666.9	1658.9	1682.9	1731.0	1823.1
50°	2440.2	2163.7	1875.3	1610.8	1414.5	1302.2	1262.2	1246.1	1274.2	1310.3	1394.4
52.5°	2103.6	1831.2	1534.7	1278.2	1073.9	957.7	913.6	889.5	905.5	953.7	1037.8
55°	1739.0	1486.5	1218.1	953.7	757.3	649.1	597.0	581.0	597.0	649.1	733.3
57.5°	1374.4	1162.0	937.6	689.2	512.9	404.7	352.6	336.6	380.7	400.7	488.8
60°	1073.9	901.6	709.2	504.9	352.6	268.4	216.4	204.3	224.4	260.4	332.6
62.5°	805.4	697.2	544.9	360.6	260.4	172.3	144.2	132.3	144.2	172.3	228.4
65°	585.0	500.9	380.7	264.4	176.3	128.2	96.2	88.1	100.2	120.2	168.3
67.5°	400.7	336.6	264.4	184.3	120.2	80.1	68.1	68.1	72.2	88.1	124.2
70°	260.4	220.4	168.3	120.2	80.1	60.1	52.1	44.1	52.1	64.1	84.1
72.5°	164.3	140.2	108.1	84.1	60.1	44.1	36.1	32.1	40.1	48.0	64.1
75°	100.2	76.2	56.1	44.1	32.1	32.1	32.1	16.0	20.0	32.1	40.1
77.5°	60.1	52.1	44.1	36.1	28.0	16.0	16.0	16.0	20.0	24.0	36.1
80°	32.1	28.0	20.0	20.0	16.0	12.1	16.0	12.1	8.0	20.0	24.0
82.5°	20.0	16.0	16.0	16.0	20.0	8.0	12.1	8.0	12.1	16.0	12.1
85°	12.1	12.1	12.1	8.0	20.0	8.0	8.0	4.0	4.0	8.0	8.0
87.5°	0.0	4.0	4.0	0.0	4.0	0.0	4.0	4.0	4.0	4.0	4.0
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°	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1	7549.1
2.5°	7561.1	7557.1	7561.1	7557.1	7557.1	7557.1	7561.1	7561.1	7557.1	7557.1	7565.1
5°	7593.2	7593.2	7593.2	7589.2	7585.1	7585.1	7593.2	7593.2	7581.1	7593.2	7593.2
7.5°	7661.3	7649.3	7661.3	7645.2	7637.3	7641.2	7645.2	7637.3	7629.3	7633.3	7633.3
10°	7749.5	7737.4	7737.4	7725.4	7713.4	7705.3	7697.4	7677.3	7657.3	7653.3	7637.3
12.5°	7853.6	7833.6	7821.6	7797.5	7777.5	7749.5	7725.4	7693.4	7653.3	7625.2	7597.2
15°	7957.8	7925.7	7897.7	7857.6	7813.6	7765.4	7713.4	7661.3	7597.2	7541.1	7493.0
17.5°	8041.9	7997.9	7945.7	7881.7	7817.6	7745.4	7669.4	7593.2	7501.0	7428.9	7372.8
20°	8070.0	8005.9	7937.8	7853.6	7769.5	7669.4	7573.2	7473.0	7368.8	7292.7	7228.6
22.5°	8034.0	7957.8	7873.7	7785.5	7673.3	7565.1	7453.0	7336.7	7244.5	7140.4	7080.3
25°	7933.8	7841.6	7749.5	7645.2	7537.1	7416.9	7296.7	7176.5	7064.2	7008.2	6932.1
27.5°	7729.5	7629.3	7529.1	7420.9	7296.7	7176.5	7052.3	6936.0	6839.9	6763.7	6719.7
30°	7368.8	7252.6	7136.4	7020.2	6912.0	6787.8	6671.6	6575.4	6479.2	6419.1	6375.1
32.5°	6815.8	6711.7	6595.5	6483.2	6383.1	6278.9	6182.7	6098.6	6030.5	5990.4	5958.3
35°	6070.6	5966.3	5878.2	5798.1	5713.9	5669.9	5609.8	5561.6	5533.6	5517.6	5513.6
37.5°	5132.9	5072.8	5044.7	5028.8	5012.7	5000.7	5008.7	5028.8	5044.7	5072.8	5104.8
40°	4131.2	4183.2	4199.3	4255.4	4307.4	4375.6	4451.8	4539.9	4612.0	4704.1	4768.3
42.5°	3217.6	3313.8	3425.9	3546.1	3674.4	3798.6	3950.9	4091.1	4219.3	4335.5	4435.7
45°	2472.3	2620.5	2788.8	2961.1	3133.5	3313.8	3498.1	3670.4	3822.6	3946.8	4051.1
47.5°	1927.3	2091.7	2308.0	2520.4	2728.7	2941.1	3145.4	3325.7	3454.0	3574.2	3666.3
50°	1526.6	1715.0	1951.4	2195.8	2424.2	2648.6	2864.9	3033.3	3161.5	3257.7	3325.7
52.5°	1182.0	1406.4	1646.8	1903.3	2147.7	2392.2	2592.5	2748.8	2853.0	2937.1	2989.2
55°	881.5	1101.9	1358.4	1622.8	1871.3	2107.6	2296.0	2432.3	2524.4	2572.5	2600.5
57.5°	637.1	837.5	1093.9	1358.4	1582.7	1807.1	1959.4	2083.6	2135.7	2163.7	2175.8
60°	464.8	649.1	877.5	1105.9	1318.3	1498.6	1630.9	1715.0	1755.1	1771.1	1767.0
62.5°	340.6	500.9	697.2	889.5	1061.8	1210.1	1314.3	1370.4	1390.5	1398.4	1386.4
65°	260.4	384.6	553.0	701.2	833.5	941.6	1017.8	1053.9	1065.8	1061.8	1053.9
67.5°	192.4	288.5	412.8	524.9	621.1	705.2	745.3	777.4	785.3	773.4	761.3
70°	136.3	212.4	300.5	376.7	448.7	496.9	540.9	544.9	544.9	540.9	533.0
72.5°	96.2	148.2	204.3	256.5	300.5	336.6	352.6	364.6	360.6	356.6	348.6
75°	64.1	92.2	148.2	160.3	200.3	212.4	228.4	228.4	232.4	220.4	220.4
77.5°	40.1	64.1	88.1	104.2	120.2	136.3	144.2	144.2	148.2	144.2	144.2
80°	24.0	40.1	48.0	72.2	72.2	84.1	88.1	92.2	84.1	96.2	84.1
82.5°	16.0	24.0	36.1	36.1	44.1	52.1	52.1	56.1	56.1	52.1	52.1
85°	12.1	16.0	20.0	24.0	24.0	28.0	24.0	24.0	28.0	32.1	28.0
87.5°	4.0	8.0	4.0	8.0	8.0	16.0	12.1	12.1	12.1	16.0	16.0
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: P248395

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7549.1	7549.1	7549.1	7549.1
2.5°	7557.1	7561.1	7557.1	7557.1
5°	7593.2	7589.2	7593.2	7585.1
7.5°	7621.2	7621.2	7617.2	7617.2
10°	7621.2	7605.2	7605.2	7605.2
12.5°	7561.1	7541.1	7529.1	7521.0
15°	7456.9	7420.9	7404.8	7400.8
17.5°	7320.7	7288.7	7268.7	7256.6
20°	7164.4	7132.4	7108.4	7112.4
22.5°	7028.2	6992.2	6976.1	6968.1
25°	6892.0	6847.9	6835.9	6827.9
27.5°	6671.6	6647.6	6635.5	6623.5
30°	6335.0	6322.9	6302.9	6331.0
32.5°	5946.3	5926.2	5910.3	5922.3
35°	5517.6	5505.5	5517.6	5509.6
37.5°	5124.9	5136.9	5153.0	5160.9
40°	4816.4	4860.4	4876.5	4884.4
42.5°	4507.8	4559.9	4592.0	4612.0
45°	4127.1	4179.2	4215.3	4239.4
47.5°	3734.5	3778.6	3814.6	3810.7
50°	3377.9	3401.9	3417.9	3434.0
52.5°	3017.2	3017.2	3021.2	3021.2
55°	2608.5	2600.5	2596.5	2600.5
57.5°	2159.7	2151.8	2147.7	2135.7
60°	1751.1	1727.0	1711.0	1711.0
62.5°	1370.4	1342.3	1330.4	1326.3
65°	1029.8	1025.7	1001.7	997.7
67.5°	745.3	729.2	713.3	717.3
70°	524.9	500.9	500.9	492.9
72.5°	340.6	328.5	324.5	324.5
75°	212.4	212.4	204.3	220.4
77.5°	140.2	140.2	136.3	140.2
80°	84.1	84.1	84.1	80.1
82.5°	52.1	56.1	52.1	52.1
85°	28.0	32.1	24.0	36.1
87.5°	16.0	20.0	16.0	20.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)