

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: P248339

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248339  
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: LSR8B100D010 EC8B100830 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10992.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

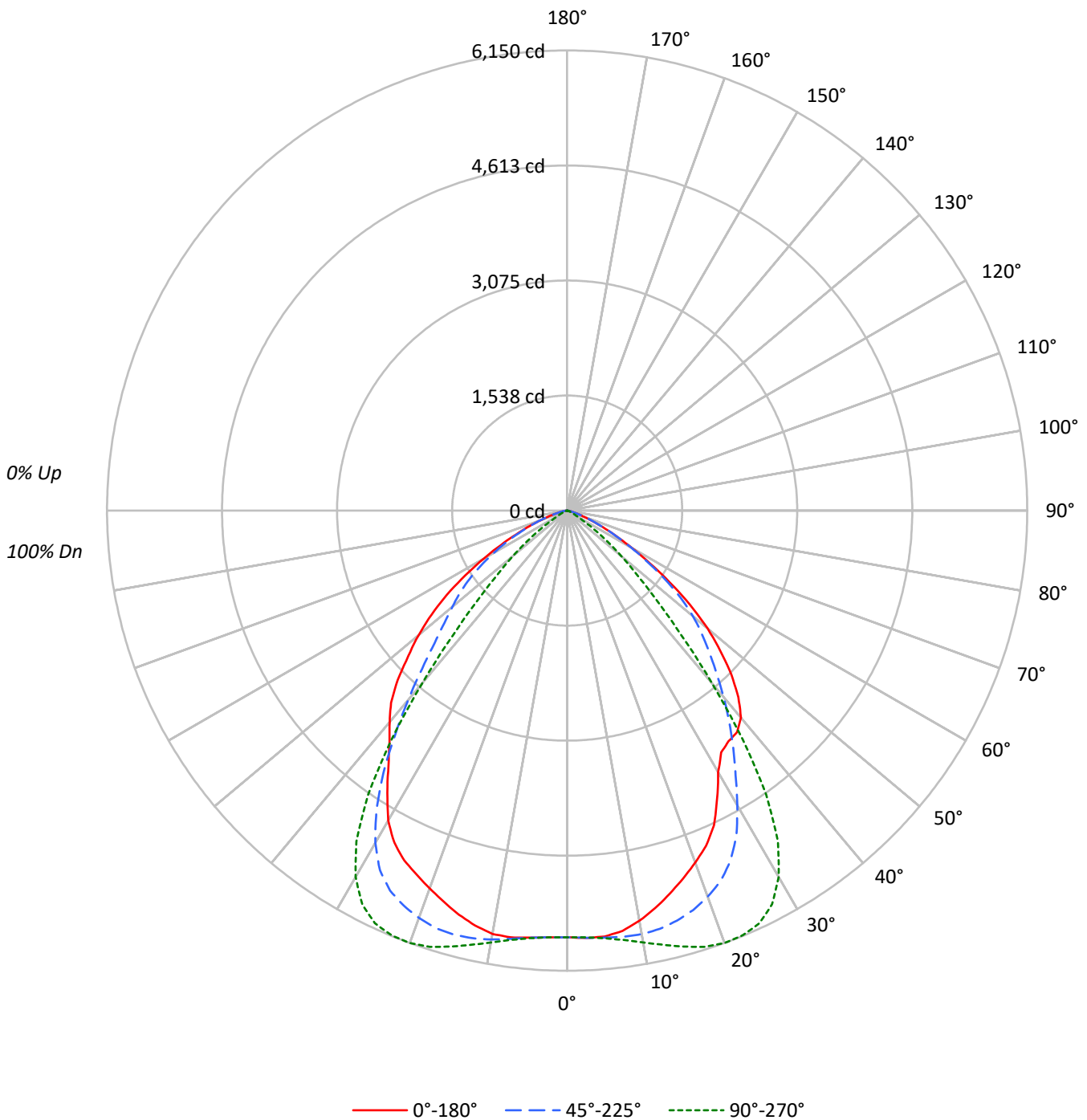
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0LI

**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°	175838	175838	175838
5°	176884	177540	177352
10°	174286	183479	179878
15°	169191	192573	178465
20°	164280	201821	176297
25°	157971	206992	175479
30°	143766	201317	170278
35°	141625	174439	156664
40°	145474	120983	148517
45°	135424	73124	139650
50°	117466	45157	124437
55°	90147	23596	105604
60°	61414	9516	79706
65°	38204	4859	54986
70°	20737	3002	33566
75°	10818	1442	19837
80°	4848	1616	10744
85°	3220	1061	9659



TEST NUMBER: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDWOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.4	5.0
10°-20°	1624.5	14.8
20°-30°	2478.3	22.5
30°-40°	2586.2	23.5
40°-50°	1942.6	17.7
50°-60°	1195.2	10.9
60°-70°	486.4	4.4
70°-80°	114.6	1.0
80°-90°	15.8	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°	4651.2	42.3
0°-40°	7237.4	65.8
0°-60°	10375.2	94.4
0°-90°	10992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5702	5702	5702	5702	5702	
5°	5714	5730	5736	5730	5730	541
15°	5300	5672	6032	5866	5590	1493
25°	4643	5164	6084	5602	5158	2111
35°	3762	3868	4634	4283	4162	2375
45°	3105	2688	1677	2503	3202	2369
55°	1677	1592	439	1592	1964	1507
65°	524	530	67	711	754	546
75°	91	91	12	160	166	109
85°	9	9	3	21	27	13
90°	0	0	0	0	0	



TEST NUMBER: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDWOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3
2.5°	5717.4	5708.3	5717.4	5717.4	5720.5	5714.4	5717.4	5720.5	5714.4	5714.4	5714.4
5°	5714.4	5708.3	5714.4	5711.4	5717.4	5717.4	5723.5	5723.5	5729.5	5729.5	5738.6
7.5°	5666.0	5653.9	5666.0	5675.1	5681.1	5693.2	5708.3	5720.5	5732.6	5744.7	5759.8
10°	5566.1	5566.1	5575.2	5593.3	5611.5	5632.6	5659.9	5690.2	5720.5	5747.7	5774.9
12.5°	5442.0	5432.9	5451.1	5475.3	5502.5	5535.9	5578.2	5623.6	5672.0	5726.5	5768.9
15°	5299.8	5290.6	5311.8	5336.0	5369.4	5417.8	5469.3	5529.8	5599.4	5672.0	5741.7
17.5°	5154.5	5151.4	5172.6	5205.9	5233.2	5284.6	5351.2	5423.8	5502.5	5599.4	5690.2
20°	5006.2	5003.2	5024.3	5051.6	5087.9	5136.3	5202.9	5287.6	5381.4	5490.5	5596.4
22.5°	4851.8	4854.8	4873.0	4903.2	4933.5	4984.9	5054.5	5139.3	5242.2	5360.3	5478.3
25°	4642.9	4627.8	4652.0	4682.3	4733.7	4776.1	4842.7	4933.5	5039.4	5163.6	5302.8
27.5°	4340.3	4337.2	4358.5	4385.7	4431.1	4482.5	4555.2	4649.0	4761.0	4897.2	5033.4
30°	4037.6	4043.7	4052.8	4080.0	4110.2	4161.7	4234.4	4313.1	4419.0	4549.1	4694.4
32.5°	3831.8	3831.8	3843.9	3862.1	3883.2	3910.5	3962.0	4019.4	4101.2	4192.0	4297.9
35°	3762.2	3750.1	3762.2	3765.2	3768.2	3774.3	3783.3	3801.6	3828.7	3868.1	3907.5
37.5°	3731.9	3722.8	3722.8	3710.8	3695.6	3677.4	3653.2	3626.0	3595.7	3556.4	3526.1
40°	3613.9	3607.8	3601.7	3589.7	3556.4	3520.1	3480.7	3417.1	3347.5	3250.6	3153.8
42.5°	3386.9	3380.8	3377.8	3353.6	3323.3	3280.9	3235.5	3169.0	3081.2	2957.1	2817.8
45°	3105.4	3093.3	3084.2	3063.0	3041.8	3005.5	2963.1	2902.6	2814.8	2687.7	2521.2
47.5°	2778.5	2772.4	2769.4	2760.4	2739.2	2717.9	2690.8	2642.3	2563.6	2442.5	2270.0
50°	2448.6	2436.5	2442.5	2439.6	2430.4	2415.3	2397.1	2363.9	2303.3	2194.3	2037.0
52.5°	2070.2	2070.2	2067.3	2076.3	2079.3	2076.3	2079.3	2043.0	1991.6	1909.8	1776.7
55°	1676.8	1676.8	1685.9	1698.0	1710.1	1713.1	1710.1	1695.0	1658.6	1592.0	1474.0
57.5°	1307.5	1301.5	1319.6	1337.8	1349.9	1362.0	1352.9	1340.8	1319.6	1265.1	1174.3
60°	995.8	995.8	1007.9	1020.0	1032.1	1044.2	1041.2	1038.1	1020.0	983.6	911.1
62.5°	732.4	735.5	735.5	744.6	756.7	768.8	777.8	768.8	759.7	735.5	687.0
65°	523.6	520.6	523.6	532.7	541.8	553.9	560.0	556.9	547.8	529.7	493.4
67.5°	351.1	348.1	360.1	363.2	369.3	381.4	378.4	381.4	378.4	363.2	333.0
70°	230.0	224.0	230.0	227.0	236.1	239.1	245.1	248.2	245.1	236.1	227.0
72.5°	142.3	139.2	142.3	145.3	148.3	151.3	157.4	157.4	154.3	148.3	136.2
75°	90.8	81.7	84.7	78.7	84.7	84.7	90.8	93.8	90.8	90.8	84.7
77.5°	54.5	54.5	54.5	54.5	54.5	54.5	54.5	57.5	60.5	54.5	51.5
80°	27.3	27.3	30.3	30.3	30.3	33.3	30.3	30.3	30.3	33.3	24.2
82.5°	21.2	18.1	18.1	18.1	21.2	18.1	18.1	18.1	18.1	18.1	18.1
85°	9.1	12.1	9.1	6.1	9.1	9.1	12.1	9.1	9.1	9.1	12.1
87.5°	3.0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	3.0	6.1	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: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3
2.5°	5717.4	5711.4	5711.4	5708.3	5714.4	5708.3	5711.4	5708.3	5708.3	5714.4	5708.3
5°	5738.6	5741.7	5735.6	5732.6	5741.7	5741.7	5741.7	5735.6	5735.6	5738.6	5735.6
7.5°	5768.9	5774.9	5777.9	5781.0	5787.1	5790.1	5790.1	5787.1	5784.0	5793.1	5781.0
10°	5802.2	5811.3	5829.4	5838.5	5853.6	5853.6	5859.7	5859.7	5853.6	5859.7	5856.7
12.5°	5790.1	5844.5	5874.8	5896.0	5917.2	5935.3	5941.4	5944.4	5941.4	5953.5	5941.4
15°	5811.3	5856.7	5905.1	5941.4	5980.7	6001.9	6008.0	6032.2	6038.3	6041.3	6023.2
17.5°	5777.9	5859.7	5911.1	5965.6	6023.2	6062.5	6098.8	6113.9	6117.0	6123.0	6098.8
20°	5702.3	5793.1	5871.8	5950.5	6017.1	6077.6	6107.9	6150.2	6138.2	6162.4	6129.1
22.5°	5599.4	5702.3	5802.2	5905.1	5974.7	6047.4	6110.9	6141.1	6156.3	6156.3	6120.0
25°	5435.9	5557.0	5666.0	5771.9	5877.9	5965.6	6038.3	6083.7	6092.8	6089.7	6047.4
27.5°	5181.7	5311.8	5439.0	5560.1	5690.2	5793.1	5877.9	5932.3	5947.5	5947.5	5902.1
30°	4830.6	4969.8	5093.9	5239.2	5372.4	5487.4	5605.5	5653.9	5681.1	5681.1	5629.7
32.5°	4412.9	4531.0	4646.0	4788.2	4933.5	5063.7	5175.6	5242.2	5275.5	5272.5	5227.1
35°	3958.9	4016.4	4104.2	4210.1	4340.3	4461.3	4570.3	4633.9	4691.4	4688.3	4646.0
37.5°	3504.9	3489.8	3498.9	3538.2	3619.9	3704.7	3789.4	3850.0	3898.4	3919.6	3910.5
40°	3060.0	2981.3	2905.6	2878.4	2884.4	2914.7	2960.1	3005.5	3060.0	3087.3	3099.3
42.5°	2660.5	2527.3	2394.1	2294.2	2236.7	2218.6	2239.7	2254.9	2288.2	2327.5	2366.9
45°	2339.6	2161.1	1985.5	1831.2	1734.3	1676.8	1664.7	1676.8	1695.0	1734.3	1785.8
47.5°	2076.3	1867.5	1670.8	1498.2	1355.9	1280.3	1259.1	1253.1	1271.2	1307.5	1377.1
50°	1843.2	1634.4	1416.5	1216.7	1068.4	983.6	953.4	941.3	962.5	989.7	1053.3
52.5°	1589.0	1383.2	1159.2	965.5	811.2	723.4	690.1	671.9	684.0	720.4	783.9
55°	1313.6	1122.9	920.1	720.4	572.0	490.3	450.9	438.9	450.9	490.3	553.9
57.5°	1038.1	877.7	708.2	520.6	387.4	305.7	266.3	254.2	287.6	302.7	369.3
60°	811.2	681.0	535.7	381.4	266.3	202.8	163.4	154.3	169.5	196.7	251.2
62.5°	608.4	526.6	411.6	272.4	196.7	130.1	108.9	99.9	108.9	130.1	172.6
65°	441.9	378.4	287.6	199.7	133.2	96.9	72.7	66.6	75.7	90.8	127.2
67.5°	302.7	254.2	199.7	139.2	90.8	60.5	51.5	51.5	54.5	66.6	93.8
70°	196.7	166.5	127.2	90.8	60.5	45.4	39.3	33.3	39.3	48.4	63.5
72.5°	124.1	105.9	81.7	63.5	45.4	33.3	27.3	24.2	30.3	36.3	48.4
75°	75.7	57.5	42.4	33.3	24.2	24.2	24.2	12.1	15.1	24.2	30.3
77.5°	45.4	39.3	33.3	27.3	21.2	12.1	12.1	12.1	15.1	18.1	27.3
80°	24.2	21.2	15.1	15.1	12.1	9.1	12.1	9.1	6.1	15.1	18.1
82.5°	15.1	12.1	12.1	12.1	15.1	6.1	9.1	6.1	9.1	12.1	9.1
85°	9.1	9.1	9.1	6.1	15.1	6.1	6.1	3.0	3.0	6.1	6.1
87.5°	0.0	3.0	3.0	0.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0
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: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3
2.5°	5711.4	5708.3	5711.4	5708.3	5708.3	5708.3	5711.4	5711.4	5708.3	5708.3	5714.4
5°	5735.6	5735.6	5735.6	5732.6	5729.5	5729.5	5735.6	5735.6	5726.5	5735.6	5735.6
7.5°	5787.1	5777.9	5787.1	5774.9	5768.9	5771.9	5774.9	5768.9	5762.8	5765.9	5765.9
10°	5853.6	5844.5	5844.5	5835.5	5826.4	5820.3	5814.3	5799.1	5784.0	5781.0	5768.9
12.5°	5932.3	5917.2	5908.1	5889.9	5874.8	5853.6	5835.5	5811.3	5781.0	5759.8	5738.6
15°	6011.0	5986.8	5965.6	5935.3	5902.1	5865.7	5826.4	5787.1	5738.6	5696.3	5659.9
17.5°	6074.6	6041.3	6001.9	5953.5	5905.1	5850.6	5793.1	5735.6	5666.0	5611.5	5569.1
20°	6095.7	6047.4	5995.9	5932.3	5868.7	5793.1	5720.5	5644.8	5566.1	5508.6	5460.2
22.5°	6068.6	6011.0	5947.5	5880.9	5796.1	5714.4	5629.7	5541.9	5472.2	5393.6	5348.2
25°	5992.9	5923.3	5853.6	5774.9	5693.2	5602.4	5511.6	5420.8	5336.0	5293.7	5236.2
27.5°	5838.5	5762.8	5687.2	5605.5	5511.6	5420.8	5327.0	5239.2	5166.6	5109.1	5075.8
30°	5566.1	5478.3	5390.5	5302.8	5221.0	5127.2	5039.4	4966.8	4894.1	4848.7	4815.5
32.5°	5148.4	5069.7	4982.0	4897.2	4821.6	4742.8	4670.2	4606.6	4555.2	4524.9	4500.7
35°	4585.5	4506.7	4440.2	4379.7	4316.0	4282.8	4237.4	4201.0	4179.8	4167.8	4164.7
37.5°	3877.2	3831.8	3810.6	3798.5	3786.4	3777.3	3783.3	3798.5	3810.6	3831.8	3856.0
40°	3120.5	3159.8	3172.0	3214.3	3253.7	3305.1	3362.7	3429.3	3483.7	3553.3	3601.7
42.5°	2430.4	2503.1	2587.8	2678.6	2775.5	2869.3	2984.3	3090.2	3187.1	3274.9	3350.5
45°	1867.5	1979.4	2106.6	2236.7	2366.9	2503.1	2642.3	2772.4	2887.5	2981.3	3060.0
47.5°	1455.8	1580.0	1743.4	1903.8	2061.2	2221.6	2375.9	2512.1	2609.0	2699.8	2769.4
50°	1153.2	1295.4	1474.0	1658.6	1831.2	2000.6	2164.1	2291.2	2388.1	2460.7	2512.1
52.5°	892.8	1062.4	1244.0	1437.7	1622.3	1806.9	1958.2	2076.3	2155.0	2218.6	2257.9
55°	665.9	832.3	1026.1	1225.8	1413.5	1592.0	1734.3	1837.2	1906.8	1943.1	1964.3
57.5°	481.2	632.6	826.3	1026.1	1195.5	1365.0	1480.1	1573.9	1613.2	1634.4	1643.5
60°	351.1	490.3	662.8	835.4	995.8	1132.0	1231.9	1295.4	1325.7	1337.8	1334.8
62.5°	257.3	378.4	526.6	671.9	802.1	914.0	992.8	1035.1	1050.3	1056.3	1047.3
65°	196.7	290.5	417.7	529.7	629.6	711.3	768.8	796.1	805.1	802.1	796.1
67.5°	145.3	218.0	311.8	396.5	469.2	532.7	563.0	587.2	593.2	584.2	575.1
70°	102.9	160.4	227.0	284.5	339.0	375.3	408.6	411.6	411.6	408.6	402.6
72.5°	72.7	112.0	154.3	193.7	227.0	254.2	266.3	275.4	272.4	269.4	263.3
75°	48.4	69.6	112.0	121.1	151.3	160.4	172.6	172.6	175.5	166.5	166.5
77.5°	30.3	48.4	66.6	78.7	90.8	102.9	108.9	108.9	112.0	108.9	108.9
80°	18.1	30.3	36.3	54.5	54.5	63.5	66.6	69.6	63.5	72.7	63.5
82.5°	12.1	18.1	27.3	27.3	33.3	39.3	39.3	42.4	42.4	39.3	39.3
85°	9.1	12.1	15.1	18.1	18.1	21.2	18.1	18.1	21.2	24.2	21.2
87.5°	3.0	6.1	3.0	6.1	6.1	12.1	9.1	9.1	9.1	12.1	12.1
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: P248339

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5702.3	5702.3	5702.3	5702.3
2.5°	5708.3	5711.4	5708.3	5708.3
5°	5735.6	5732.6	5735.6	5729.5
7.5°	5756.8	5756.8	5753.7	5753.7
10°	5756.8	5744.7	5744.7	5744.7
12.5°	5711.4	5696.3	5687.2	5681.1
15°	5632.6	5605.5	5593.3	5590.3
17.5°	5529.8	5505.6	5490.5	5481.3
20°	5411.7	5387.5	5369.4	5372.4
22.5°	5308.8	5281.6	5269.5	5263.4
25°	5205.9	5172.6	5163.6	5157.5
27.5°	5039.4	5021.3	5012.2	5003.2
30°	4785.2	4776.1	4761.0	4782.2
32.5°	4491.6	4476.5	4464.4	4473.5
35°	4167.8	4158.7	4167.8	4161.7
37.5°	3871.2	3880.2	3892.4	3898.4
40°	3638.1	3671.4	3683.5	3689.5
42.5°	3405.0	3444.4	3468.6	3483.7
45°	3117.5	3156.8	3184.1	3202.3
47.5°	2820.9	2854.2	2881.4	2878.4
50°	2551.5	2569.7	2581.7	2593.9
52.5°	2279.1	2279.1	2282.1	2282.1
55°	1970.4	1964.3	1961.3	1964.3
57.5°	1631.4	1625.4	1622.3	1613.2
60°	1322.7	1304.5	1292.4	1292.4
62.5°	1035.1	1013.9	1004.9	1001.9
65°	777.8	774.8	756.7	753.6
67.5°	563.0	550.8	538.8	541.8
70°	396.5	378.4	378.4	372.3
72.5°	257.3	248.2	245.1	245.1
75°	160.4	160.4	154.3	166.5
77.5°	105.9	105.9	102.9	105.9
80°	63.5	63.5	63.5	60.5
82.5°	39.3	42.4	39.3	39.3
85°	21.2	24.2	18.1	27.3
87.5°	12.1	15.1	12.1	15.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)