

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: P246229

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B15D010 EC8B15950 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1428.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

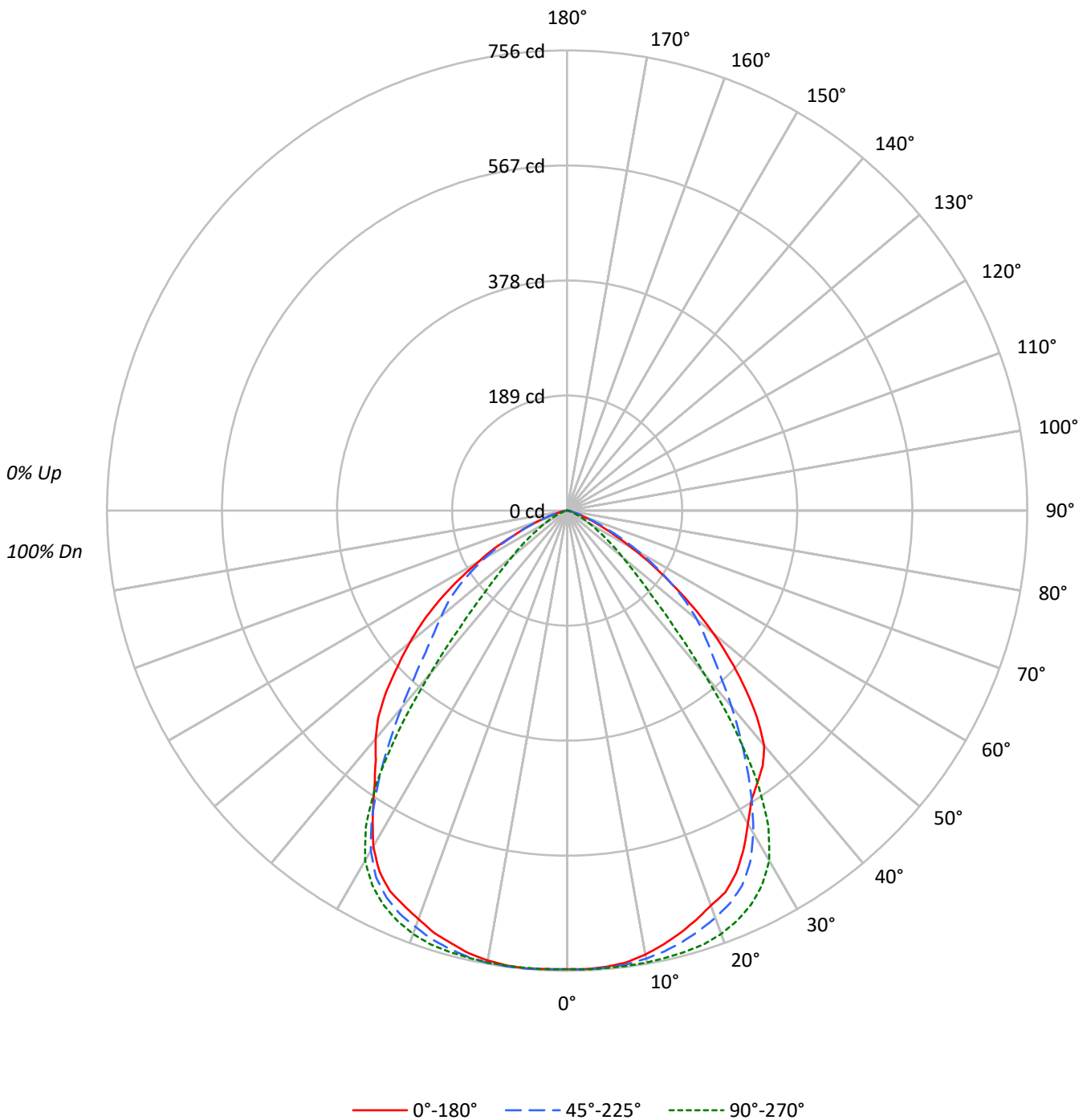
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	23232	23232	23232
5°	23284	23349	23373
10°	23187	23603	23503
15°	22931	23949	23499
20°	22656	24287	23437
25°	22361	24314	23460
30°	21154	23632	22667
35°	20524	20539	20749
40°	20268	14129	19700
45°	18059	8482	18307
50°	15015	5646	16181
55°	11263	3892	13720
60°	7635	2596	10349
65°	4604	1685	7114
70°	2552	911	4373
75°	1156	381	2264
80°	1012	426	1580
85°	1132	566	1592



TEST NUMBER: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	5.0
10°-20°	208.8	14.6
20°-30°	317.0	22.2
30°-40°	332.9	23.3
40°-50°	249.6	17.5
50°-60°	160.1	11.2
60°-70°	68.5	4.8
70°-80°	16.2	1.1
80°-90°	3.0	0.2
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°	597.7	41.9
0°-40°	930.6	65.2
0°-60°	1340.3	93.9
0°-90°	1428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	753	753	753	753	753	
5°	752	753	754	756	755	71
15°	718	733	750	745	736	203
25°	657	680	715	702	690	300
35°	545	515	546	539	551	342
45°	414	338	194	329	420	317
55°	210	210	72	218	255	190
65°	63	74	23	96	98	67
75°	10	11	3	19	19	14
85°	3	2	2	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	753.8	754.7	754.3	754.3	753.8	754.3	754.3	755.1	755.1	754.3	753.8
5°	752.2	753.0	753.0	752.2	752.2	754.3	753.0	753.8	753.8	753.4	753.4
7.5°	748.6	748.6	750.2	749.0	749.0	750.2	749.8	750.6	751.4	751.8	751.8
10°	740.5	741.3	741.7	741.7	742.1	743.3	744.1	745.8	746.6	747.4	747.8
12.5°	730.4	731.6	732.0	731.6	732.8	734.4	736.5	738.5	739.7	741.3	742.5
15°	718.3	718.3	719.1	720.3	721.1	723.5	725.5	728.0	731.2	733.2	735.2
17.5°	704.9	705.7	706.9	706.9	708.6	712.6	713.8	717.5	721.1	723.1	727.2
20°	690.4	691.2	692.4	693.2	695.2	698.4	700.9	704.1	708.1	711.8	715.8
22.5°	679.0	677.4	678.2	679.0	681.1	683.9	686.7	690.8	694.8	698.4	702.5
25°	657.2	657.6	658.8	659.6	662.0	664.5	667.7	672.6	676.2	680.2	684.7
27.5°	627.7	628.1	630.1	630.1	632.1	636.2	638.2	642.2	647.1	651.1	656.4
30°	594.1	594.9	594.9	596.5	597.7	599.8	601.8	605.8	608.3	611.9	619.2
32.5°	563.4	564.2	563.8	563.4	562.1	561.7	561.3	562.1	563.0	564.2	567.0
35°	545.2	543.1	541.5	538.7	535.5	531.4	527.8	522.9	518.5	514.8	510.8
37.5°	527.8	527.4	524.9	520.9	514.4	507.1	498.7	488.1	477.6	466.3	455.4
40°	503.5	502.3	500.3	494.6	487.3	478.4	467.1	454.2	437.2	419.8	402.0
42.5°	462.3	462.7	460.2	455.8	448.9	440.4	428.7	414.5	396.3	375.7	352.7
45°	414.1	414.1	413.3	409.7	404.8	398.0	389.1	377.3	359.5	338.5	313.8
47.5°	364.0	364.4	363.2	362.4	360.3	355.9	349.4	340.5	328.0	307.8	283.1
50°	313.0	313.0	315.0	314.6	314.6	313.0	310.2	304.9	294.0	277.8	254.8
52.5°	262.1	262.9	264.1	265.7	267.7	271.0	267.7	265.3	258.4	245.9	226.1
55°	209.5	210.3	212.3	215.2	217.6	220.8	221.6	221.6	218.0	209.5	194.5
57.5°	164.6	163.4	165.0	167.4	170.7	173.9	176.3	179.2	178.8	173.1	161.0
60°	123.8	124.2	125.4	127.8	130.2	133.1	136.3	138.7	139.9	137.1	129.4
62.5°	90.2	90.2	91.8	94.2	95.4	99.5	101.5	102.7	103.9	103.5	98.7
65°	63.1	63.9	64.7	65.9	67.1	69.6	70.8	73.2	74.0	74.4	70.8
67.5°	44.5	43.3	44.1	44.9	46.1	47.7	50.2	50.2	51.4	51.4	48.9
70°	28.3	28.3	28.7	29.9	30.7	31.1	32.0	32.8	34.0	33.6	33.6
72.5°	19.0	18.6	19.0	19.4	19.8	21.0	21.0	21.4	22.2	22.7	21.0
75°	9.7	10.1	10.9	10.5	11.7	10.9	11.3	12.5	12.1	11.3	11.3
77.5°	8.1	8.1	8.1	7.7	8.5	8.5	8.1	8.9	8.5	8.5	8.1
80°	5.7	6.1	5.7	5.3	5.7	5.3	5.3	5.3	5.3	5.3	4.8
82.5°	4.5	3.6	4.0	3.6	4.0	4.0	3.6	3.2	3.2	3.6	3.2
85°	3.2	2.4	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.0	2.0
87.5°	2.0	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	0.8
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: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	754.7	754.3	755.1	754.7	754.7	754.3	754.7	754.3	755.1	753.4	753.8
5°	754.7	753.8	754.3	754.7	755.1	754.3	754.3	754.3	755.1	754.3	754.7
7.5°	753.0	752.6	753.8	754.7	754.3	753.8	754.7	754.3	755.1	754.7	755.5
10°	749.8	750.2	751.0	752.2	752.6	753.0	753.8	753.8	755.1	753.4	754.3
12.5°	745.0	746.6	748.6	749.4	751.0	751.0	751.8	752.2	753.0	752.6	753.8
15°	738.9	740.9	743.3	745.4	747.4	748.6	749.8	750.2	751.4	750.2	750.6
17.5°	731.6	734.0	737.7	740.1	743.3	744.5	746.2	747.0	748.2	747.4	747.8
20°	721.5	724.3	728.4	732.0	734.0	736.9	738.9	740.1	740.9	740.1	740.5
22.5°	707.3	711.4	716.6	719.5	723.5	725.9	726.3	729.2	731.2	729.2	730.0
25°	690.8	694.8	698.8	704.9	708.6	711.4	714.2	714.6	716.6	716.2	715.8
27.5°	663.3	668.5	675.4	680.2	685.1	689.5	692.8	693.6	695.6	694.8	695.2
30°	625.6	631.3	637.8	645.5	652.3	656.8	660.8	663.7	665.7	664.5	664.1
32.5°	572.3	577.9	584.8	592.5	600.6	607.0	611.9	615.5	618.0	617.1	615.1
35°	511.2	512.8	517.3	523.3	530.2	537.1	541.5	545.6	548.4	549.2	549.2
37.5°	448.5	443.3	440.0	440.0	444.1	446.9	450.9	453.4	457.8	459.4	460.6
40°	387.8	375.7	364.4	355.9	350.2	349.8	349.8	351.0	355.1	360.3	365.2
42.5°	333.6	314.2	296.8	281.1	269.8	263.3	260.5	260.9	264.1	268.9	277.0
45°	290.4	266.1	244.3	225.3	209.9	199.8	194.9	194.5	197.0	202.6	211.5
47.5°	256.8	230.9	206.3	184.4	167.8	156.9	151.3	149.6	151.3	156.5	167.0
50°	228.9	202.2	176.7	154.1	136.3	125.0	119.7	117.7	119.7	124.2	134.7
52.5°	203.0	175.5	151.7	129.8	110.8	101.1	95.4	94.2	95.4	100.7	109.2
55°	173.1	149.6	126.2	104.3	87.8	78.1	73.6	72.4	73.6	78.5	87.4
57.5°	143.6	123.3	102.7	82.9	68.8	60.3	56.2	54.6	57.4	60.7	71.2
60°	116.1	99.9	82.5	65.1	53.4	45.7	42.5	42.1	42.9	46.9	54.2
62.5°	91.0	77.7	63.9	49.7	40.0	36.8	32.8	32.4	33.2	35.6	41.3
65°	65.5	57.0	46.5	36.4	28.7	24.3	22.7	23.1	23.9	25.5	30.7
67.5°	45.7	39.6	32.4	25.5	19.8	17.8	16.2	15.8	16.2	19.0	21.8
70°	30.7	27.1	21.8	19.4	13.8	10.9	11.3	10.1	11.7	11.7	14.2
72.5°	20.2	17.8	14.6	11.3	9.7	7.7	7.7	7.3	8.1	8.5	10.5
75°	10.5	8.1	8.1	5.7	4.0	2.0	3.6	3.2	2.8	3.2	4.0
77.5°	7.3	6.1	5.7	4.5	4.0	3.2	3.2	3.2	3.2	3.6	4.0
80°	4.5	4.5	3.2	2.8	2.4	2.0	2.4	2.4	2.4	2.4	2.8
82.5°	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.4
85°	2.4	1.6	1.6	1.2	1.6	2.8	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.0	1.6
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: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	754.7	755.1	755.1	754.7	754.7	753.8	755.5	754.3	754.7	756.3	755.1
5°	755.5	755.9	755.9	755.5	755.5	755.5	755.9	755.9	755.5	755.1	755.9
7.5°	757.1	756.7	756.7	755.9	755.9	755.1	755.9	754.7	755.5	754.7	755.9
10°	755.1	755.5	755.1	754.7	754.7	754.3	754.3	753.0	753.4	752.2	753.0
12.5°	753.8	753.4	753.4	752.6	751.8	751.0	750.6	749.4	749.4	746.6	747.8
15°	750.6	751.0	749.8	748.2	747.4	745.4	744.5	742.9	741.3	739.3	739.7
17.5°	747.8	746.6	745.0	743.3	740.1	738.5	736.9	734.4	733.6	731.2	730.4
20°	739.3	738.5	736.5	733.6	731.6	728.0	726.3	723.9	721.9	719.5	718.3
22.5°	728.4	727.6	725.1	722.3	719.1	717.5	715.8	711.4	709.4	706.9	706.5
25°	714.6	713.4	711.0	707.7	706.1	701.7	700.1	696.8	696.0	693.6	693.2
27.5°	693.6	692.0	689.1	685.1	682.3	679.4	677.8	675.4	674.6	672.1	671.8
30°	662.0	660.0	654.4	652.7	647.9	645.1	645.1	641.8	642.2	640.6	640.6
32.5°	612.3	609.1	604.6	601.4	598.1	596.5	596.5	595.3	596.1	596.1	596.9
35°	546.4	541.9	539.5	537.5	537.5	539.1	544.0	545.2	547.6	549.6	551.2
37.5°	461.8	461.5	464.3	466.7	472.8	479.6	488.1	495.4	502.3	507.1	512.0
40°	370.5	380.6	388.6	400.0	409.3	422.6	438.0	450.5	462.3	470.8	479.6
42.5°	289.2	302.1	319.1	335.7	352.3	370.5	390.7	408.1	423.4	435.2	444.5
45°	225.3	243.1	263.7	284.7	306.1	328.8	349.8	367.6	383.8	395.9	405.2
47.5°	181.6	201.0	224.5	247.5	271.8	295.6	319.1	334.5	347.8	357.5	366.0
50°	150.0	170.7	195.3	221.6	245.9	269.8	290.0	304.9	315.9	324.3	329.6
52.5°	125.4	147.2	173.5	199.8	224.0	245.9	264.1	275.4	284.3	290.4	295.2
55°	103.5	124.6	149.2	173.9	197.8	218.4	233.3	241.8	248.7	252.4	255.2
57.5°	84.5	103.9	126.6	149.2	169.9	186.8	198.6	207.1	210.3	213.1	212.7
60°	66.3	84.5	105.2	124.6	142.4	156.1	164.6	169.5	171.9	173.1	172.3
62.5°	52.2	68.8	84.5	101.5	114.5	126.2	134.3	134.3	135.5	135.9	137.1
65°	38.8	51.4	65.1	77.7	88.2	95.8	100.3	101.5	103.1	102.7	101.9
67.5°	28.7	38.0	48.1	57.4	64.7	69.6	72.8	75.6	75.2	74.4	74.0
70°	19.8	25.9	34.8	40.4	45.7	50.6	51.4	51.8	52.2	52.6	51.8
72.5°	13.8	18.2	23.1	27.9	31.1	33.2	35.2	35.6	35.6	35.6	35.2
75°	6.9	9.3	13.8	15.8	18.6	19.4	21.0	21.0	22.2	20.6	20.2
77.5°	6.1	7.3	9.7	11.3	12.5	13.8	14.2	15.4	15.0	14.2	14.6
80°	3.6	4.5	6.1	6.9	8.5	8.9	9.3	9.7	9.3	9.7	9.7
82.5°	2.8	3.2	4.0	4.0	5.3	5.3	5.7	5.7	6.1	6.1	6.1
85°	1.6	2.8	2.4	4.8	3.2	3.2	4.0	4.8	4.0	4.0	4.8
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.4	2.4	2.8	2.4
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: P246229

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	753.4	753.4	753.4	753.4
2.5°	754.7	755.5	754.3	753.8
5°	755.9	755.9	755.1	755.1
7.5°	755.9	755.9	754.7	753.8
10°	752.6	752.6	751.4	750.6
12.5°	746.6	746.6	746.2	745.0
15°	738.9	738.9	737.3	736.1
17.5°	728.4	729.2	727.2	727.2
20°	717.0	716.6	715.0	714.2
22.5°	705.3	704.5	704.1	701.7
25°	692.8	692.0	690.8	689.5
27.5°	671.3	670.9	669.7	668.1
30°	638.6	638.2	636.6	636.6
32.5°	596.1	595.7	594.1	594.5
35°	552.0	553.7	552.8	551.2
37.5°	515.2	516.5	517.3	516.5
40°	484.5	488.1	488.5	489.4
42.5°	451.7	456.6	458.2	459.0
45°	412.5	417.0	420.6	419.8
47.5°	372.5	375.7	378.9	376.5
50°	334.1	336.1	337.3	337.3
52.5°	297.7	297.7	297.3	297.7
55°	256.0	256.0	254.4	255.2
57.5°	212.3	213.1	211.9	209.9
60°	171.9	169.9	169.0	167.8
62.5°	133.9	133.9	131.0	134.7
65°	100.3	99.1	97.9	97.5
67.5°	72.8	72.4	71.2	70.8
70°	51.4	49.7	49.3	48.5
72.5°	34.4	34.4	33.6	33.6
75°	21.0	19.0	18.6	19.0
77.5°	14.6	14.2	14.2	13.8
80°	9.7	9.3	10.1	8.9
82.5°	6.1	6.5	6.1	6.5
85°	4.0	4.8	4.5	4.5
87.5°	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)