

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: P246162

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246162  
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: LSR8B10D010 EC8B109727 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 712.0 lumens  
Efficiency: N/A  
Efficacy: 69.8 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

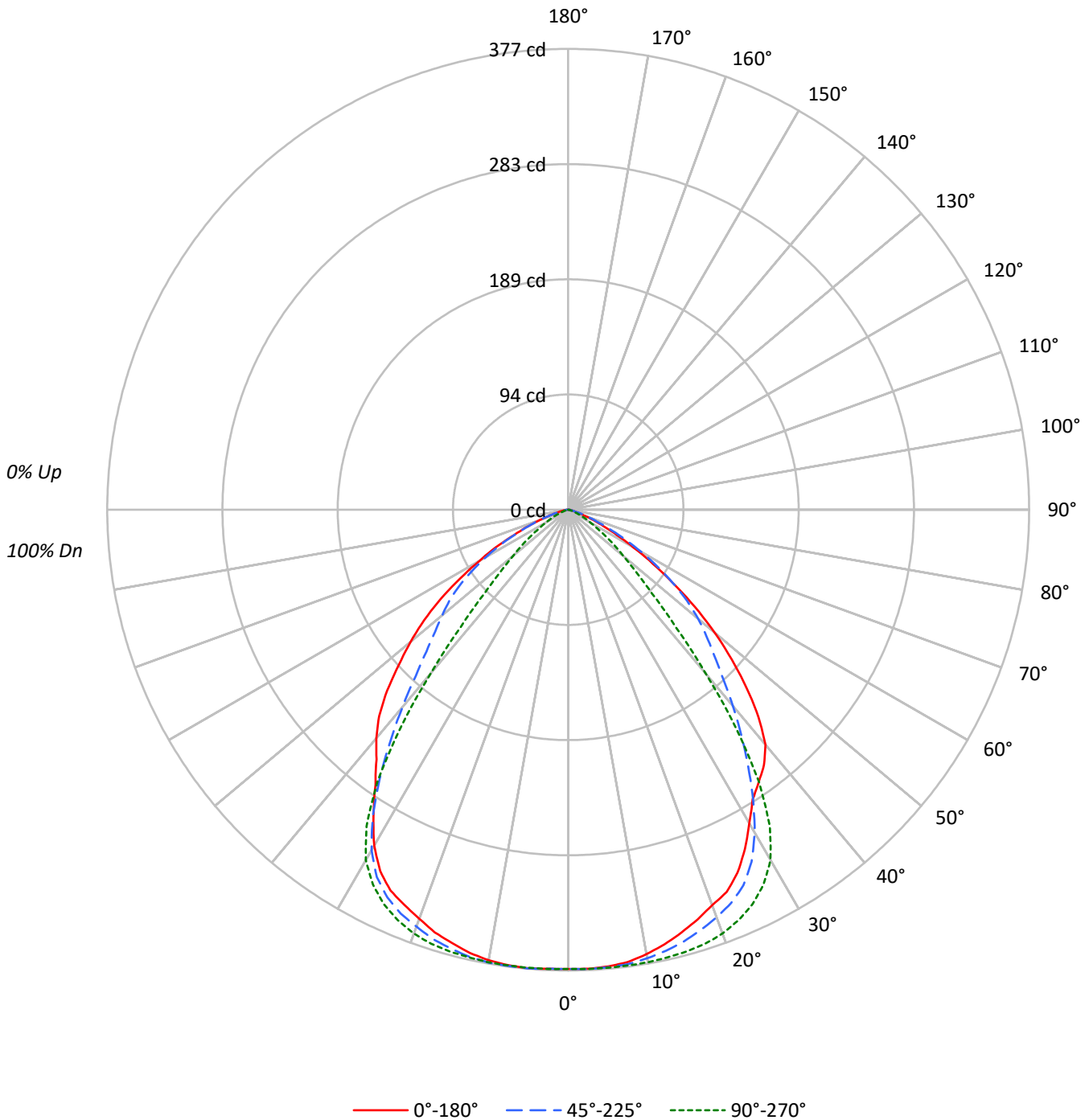
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

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

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

	0°	90°	180°
0°	11585	11585	11585
5°	11611	11642	11654
10°	11560	11770	11720
15°	11432	11943	11716
20°	11295	12109	11686
25°	11150	12123	11697
30°	10547	11782	11302
35°	10232	10239	10345
40°	10104	7044	9822
45°	9005	4230	9127
50°	7489	2816	8069
55°	5618	1941	6838
60°	3805	1295	5162
65°	2298	839	3546
70°	1271	451	2182
75°	572	191	1132
80°	497	213	781
85°	566	283	778



TEST NUMBER: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	5.0
10°-20°	104.1	14.6
20°-30°	158.0	22.2
30°-40°	166.0	23.3
40°-50°	124.4	17.5
50°-60°	79.8	11.2
60°-70°	34.2	4.8
70°-80°	8.1	1.1
80°-90°	1.5	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°	298.0	41.9
0°-40°	464.0	65.2
0°-60°	668.3	93.9
0°-90°	712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	376	376	376	376	376	
5°	375	376	376	377	376	36
15°	358	366	374	372	367	101
25°	328	339	356	350	344	150
35°	272	257	272	269	275	171
45°	206	169	97	164	209	158
55°	104	104	36	109	127	95
65°	32	37	12	48	49	34
75°	5	6	2	10	10	7
85°	2	1	1	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7
2.5°	375.9	376.3	376.1	376.1	375.9	376.1	376.1	376.5	376.5	376.1	375.9
5°	375.1	375.5	375.5	375.1	375.1	376.1	375.5	375.9	375.9	375.7	375.7
7.5°	373.2	373.2	374.1	373.4	373.4	374.1	373.8	374.3	374.7	374.9	374.9
10°	369.2	369.6	369.8	369.8	370.0	370.6	371.0	371.8	372.2	372.6	372.8
12.5°	364.2	364.8	365.0	364.8	365.4	366.2	367.2	368.2	368.8	369.6	370.2
15°	358.1	358.1	358.5	359.1	359.5	360.7	361.8	363.0	364.6	365.6	366.6
17.5°	351.5	351.9	352.5	352.5	353.3	355.3	355.9	357.7	359.5	360.5	362.6
20°	344.2	344.6	345.2	345.6	346.6	348.2	349.5	351.1	353.1	354.9	356.9
22.5°	338.6	337.8	338.2	338.6	339.6	341.0	342.4	344.4	346.4	348.2	350.3
25°	327.7	327.9	328.5	328.9	330.1	331.3	332.9	335.3	337.2	339.2	341.4
27.5°	313.0	313.2	314.2	314.2	315.2	317.2	318.2	320.2	322.6	324.6	327.3
30°	296.2	296.6	296.6	297.4	298.0	299.0	300.0	302.1	303.3	305.1	308.7
32.5°	280.9	281.3	281.1	280.9	280.3	280.1	279.9	280.3	280.7	281.3	282.7
35°	271.8	270.8	270.0	268.6	267.0	265.0	263.1	260.7	258.5	256.7	254.7
37.5°	263.1	262.9	261.7	259.7	256.5	252.9	248.6	243.4	238.1	232.5	227.1
40°	251.0	250.4	249.4	246.6	243.0	238.5	232.9	226.4	218.0	209.3	200.4
42.5°	230.5	230.7	229.5	227.3	223.8	219.6	213.7	206.7	197.6	187.3	175.8
45°	206.5	206.5	206.1	204.3	201.8	198.4	194.0	188.1	179.3	168.8	156.5
47.5°	181.5	181.7	181.1	180.7	179.7	177.4	174.2	169.8	163.5	153.5	141.2
50°	156.1	156.1	157.1	156.9	156.9	156.1	154.7	152.0	146.6	138.5	127.0
52.5°	130.7	131.1	131.7	132.5	133.5	135.1	133.5	132.3	128.8	122.6	112.7
55°	104.5	104.9	105.9	107.3	108.5	110.1	110.5	110.5	108.7	104.5	97.0
57.5°	82.1	81.5	82.3	83.5	85.1	86.7	87.9	89.3	89.1	86.3	80.3
60°	61.7	61.9	62.5	63.7	64.9	66.3	68.0	69.2	69.8	68.4	64.5
62.5°	45.0	45.0	45.8	47.0	47.6	49.6	50.6	51.2	51.8	51.6	49.2
65°	31.5	31.9	32.3	32.9	33.5	34.7	35.3	36.5	36.9	37.1	35.3
67.5°	22.2	21.6	22.0	22.4	23.0	23.8	25.0	25.0	25.6	25.6	24.4
70°	14.1	14.1	14.3	14.9	15.3	15.5	15.9	16.3	16.9	16.7	16.7
72.5°	9.5	9.3	9.5	9.7	9.9	10.5	10.5	10.7	11.1	11.3	10.5
75°	4.8	5.0	5.4	5.2	5.8	5.4	5.6	6.3	6.0	5.6	5.6
77.5°	4.0	4.0	4.0	3.8	4.2	4.2	4.0	4.4	4.2	4.2	4.0
80°	2.8	3.0	2.8	2.6	2.8	2.6	2.6	2.6	2.6	2.6	2.4
82.5°	2.2	1.8	2.0	1.8	2.0	2.0	1.8	1.6	1.6	1.8	1.6
85°	1.6	1.2	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.0	1.0
87.5°	1.0	0.6	0.6	0.6	0.8	0.8	0.8	0.6	0.8	0.8	0.4
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: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7
2.5°	376.3	376.1	376.5	376.3	376.3	376.1	376.3	376.1	376.5	375.7	375.9
5°	376.3	375.9	376.1	376.3	376.5	376.1	376.1	376.1	376.5	376.1	376.3
7.5°	375.5	375.3	375.9	376.3	376.1	375.9	376.3	376.1	376.5	376.3	376.7
10°	373.8	374.1	374.5	375.1	375.3	375.5	375.9	375.9	376.5	375.7	376.1
12.5°	371.4	372.2	373.2	373.6	374.5	374.5	374.9	375.1	375.5	375.3	375.9
15°	368.4	369.4	370.6	371.6	372.6	373.2	373.8	374.1	374.7	374.1	374.3
17.5°	364.8	366.0	367.8	369.0	370.6	371.2	372.0	372.4	373.0	372.6	372.8
20°	359.7	361.1	363.2	365.0	366.0	367.4	368.4	369.0	369.4	369.0	369.2
22.5°	352.7	354.7	357.3	358.7	360.7	362.0	362.2	363.6	364.6	363.6	364.0
25°	344.4	346.4	348.4	351.5	353.3	354.7	356.1	356.3	357.3	357.1	356.9
27.5°	330.7	333.3	336.7	339.2	341.6	343.8	345.4	345.8	346.8	346.4	346.6
30°	311.9	314.8	318.0	321.8	325.3	327.5	329.5	330.9	331.9	331.3	331.1
32.5°	285.3	288.2	291.6	295.4	299.4	302.7	305.1	306.9	308.1	307.7	306.7
35°	254.9	255.7	257.9	260.9	264.4	267.8	270.0	272.0	273.4	273.8	273.8
37.5°	223.6	221.0	219.4	219.4	221.4	222.8	224.8	226.0	228.3	229.1	229.7
40°	193.4	187.3	181.7	177.4	174.6	174.4	174.4	175.0	177.0	179.7	182.1
42.5°	166.4	156.7	148.0	140.1	134.5	131.3	129.9	130.1	131.7	134.1	138.1
45°	144.8	132.7	121.8	112.3	104.7	99.6	97.2	97.0	98.2	101.0	105.5
47.5°	128.0	115.1	102.8	91.9	83.7	78.2	75.4	74.6	75.4	78.0	83.3
50°	114.1	100.8	88.1	76.8	68.0	62.3	59.7	58.7	59.7	61.9	67.1
52.5°	101.2	87.5	75.6	64.7	55.3	50.4	47.6	47.0	47.6	50.2	54.4
55°	86.3	74.6	62.9	52.0	43.8	38.9	36.7	36.1	36.7	39.1	43.6
57.5°	71.6	61.5	51.2	41.3	34.3	30.0	28.0	27.2	28.6	30.2	35.5
60°	57.9	49.8	41.1	32.5	26.6	22.8	21.2	21.0	21.4	23.4	27.0
62.5°	45.4	38.7	31.9	24.8	20.0	18.3	16.3	16.1	16.5	17.7	20.6
65°	32.7	28.4	23.2	18.1	14.3	12.1	11.3	11.5	11.9	12.7	15.3
67.5°	22.8	19.8	16.1	12.7	9.9	8.9	8.1	7.9	8.1	9.5	10.9
70°	15.3	13.5	10.9	9.7	6.9	5.4	5.6	5.0	5.8	5.8	7.1
72.5°	10.1	8.9	7.3	5.6	4.8	3.8	3.8	3.6	4.0	4.2	5.2
75°	5.2	4.0	4.0	2.8	2.0	1.0	1.8	1.6	1.4	1.6	2.0
77.5°	3.6	3.0	2.8	2.2	2.0	1.6	1.6	1.6	1.6	1.8	2.0
80°	2.2	2.2	1.6	1.4	1.2	1.0	1.2	1.2	1.2	1.2	1.4
82.5°	1.4	1.2	1.2	1.0	1.0	0.8	0.8	0.8	0.8	0.8	1.2
85°	1.2	0.8	0.8	0.6	0.8	1.4	0.6	0.8	0.8	0.8	0.6
87.5°	0.4	0.6	0.6	0.6	0.4	0.2	0.4	0.6	0.6	1.0	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: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7
2.5°	376.3	376.5	376.5	376.3	376.3	375.9	376.7	376.1	376.3	377.1	376.5
5°	376.7	376.9	376.9	376.7	376.7	376.7	376.9	376.9	376.7	376.5	376.9
7.5°	377.5	377.3	377.3	376.9	376.9	376.5	376.9	376.3	376.7	376.3	376.9
10°	376.5	376.7	376.5	376.3	376.3	376.1	376.1	375.5	375.7	375.1	375.5
12.5°	375.9	375.7	375.7	375.3	374.9	374.5	374.3	373.6	373.6	372.2	372.8
15°	374.3	374.5	373.8	373.0	372.6	371.6	371.2	370.4	369.6	368.6	368.8
17.5°	372.8	372.2	371.4	370.6	369.0	368.2	367.4	366.2	365.8	364.6	364.2
20°	368.6	368.2	367.2	365.8	364.8	363.0	362.2	360.9	359.9	358.7	358.1
22.5°	363.2	362.8	361.5	360.1	358.5	357.7	356.9	354.7	353.7	352.5	352.3
25°	356.3	355.7	354.5	352.9	352.1	349.9	349.0	347.4	347.0	345.8	345.6
27.5°	345.8	345.0	343.6	341.6	340.2	338.8	338.0	336.7	336.3	335.1	334.9
30°	330.1	329.1	326.3	325.5	323.0	321.6	321.6	320.0	320.2	319.4	319.4
32.5°	305.3	303.7	301.5	299.8	298.2	297.4	297.4	296.8	297.2	297.2	297.6
35°	272.4	270.2	269.0	268.0	268.0	268.8	271.2	271.8	273.0	274.0	274.8
37.5°	230.3	230.1	231.5	232.7	235.7	239.2	243.4	247.0	250.4	252.9	255.3
40°	184.7	189.7	193.8	199.4	204.1	210.7	218.4	224.6	230.5	234.7	239.2
42.5°	144.2	150.6	159.1	167.4	175.6	184.7	194.8	203.5	211.1	217.0	221.6
45°	112.3	121.2	131.5	142.0	152.6	163.9	174.4	183.3	191.4	197.4	202.0
47.5°	90.5	100.2	111.9	123.4	135.5	147.4	159.1	166.8	173.4	178.3	182.5
50°	74.8	85.1	97.4	110.5	122.6	134.5	144.6	152.0	157.5	161.7	164.3
52.5°	62.5	73.4	86.5	99.6	111.7	122.6	131.7	137.3	141.8	144.8	147.2
55°	51.6	62.1	74.4	86.7	98.6	108.9	116.3	120.6	124.0	125.8	127.2
57.5°	42.1	51.8	63.1	74.4	84.7	93.2	99.0	103.2	104.9	106.3	106.1
60°	33.1	42.1	52.4	62.1	71.0	77.8	82.1	84.5	85.7	86.3	85.9
62.5°	26.0	34.3	42.1	50.6	57.1	62.9	66.9	66.9	67.6	67.8	68.4
65°	19.4	25.6	32.5	38.7	44.0	47.8	50.0	50.6	51.4	51.2	50.8
67.5°	14.3	19.0	24.0	28.6	32.3	34.7	36.3	37.7	37.5	37.1	36.9
70°	9.9	12.9	17.3	20.2	22.8	25.2	25.6	25.8	26.0	26.2	25.8
72.5°	6.9	9.1	11.5	13.9	15.5	16.5	17.5	17.7	17.7	17.7	17.5
75°	3.4	4.6	6.9	7.9	9.3	9.7	10.5	10.5	11.1	10.3	10.1
77.5°	3.0	3.6	4.8	5.6	6.3	6.9	7.1	7.7	7.5	7.1	7.3
80°	1.8	2.2	3.0	3.4	4.2	4.4	4.6	4.8	4.6	4.8	4.8
82.5°	1.4	1.6	2.0	2.0	2.6	2.6	2.8	2.8	3.0	3.0	3.0
85°	0.8	1.4	1.2	2.4	1.6	1.6	2.0	2.4	2.0	2.0	2.4
87.5°	0.8	0.8	0.6	0.8	0.8	0.8	1.0	1.2	1.2	1.4	1.2
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: P246162

CATALOG NUMBER: LSR8B10D010 EC8B109727 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	375.7	375.7	375.7	375.7
2.5°	376.3	376.7	376.1	375.9
5°	376.9	376.9	376.5	376.5
7.5°	376.9	376.9	376.3	375.9
10°	375.3	375.3	374.7	374.3
12.5°	372.2	372.2	372.0	371.4
15°	368.4	368.4	367.6	367.0
17.5°	363.2	363.6	362.6	362.6
20°	357.5	357.3	356.5	356.1
22.5°	351.7	351.3	351.1	349.9
25°	345.4	345.0	344.4	343.8
27.5°	334.7	334.5	333.9	333.1
30°	318.4	318.2	317.4	317.4
32.5°	297.2	297.0	296.2	296.4
35°	275.2	276.1	275.6	274.8
37.5°	256.9	257.5	257.9	257.5
40°	241.6	243.4	243.6	244.0
42.5°	225.2	227.7	228.5	228.9
45°	205.7	207.9	209.7	209.3
47.5°	185.7	187.3	188.9	187.7
50°	166.6	167.6	168.2	168.2
52.5°	148.4	148.4	148.2	148.4
55°	127.6	127.6	126.8	127.2
57.5°	105.9	106.3	105.7	104.7
60°	85.7	84.7	84.3	83.7
62.5°	66.7	66.7	65.3	67.1
65°	50.0	49.4	48.8	48.6
67.5°	36.3	36.1	35.5	35.3
70°	25.6	24.8	24.6	24.2
72.5°	17.1	17.1	16.7	16.7
75°	10.5	9.5	9.3	9.5
77.5°	7.3	7.1	7.1	6.9
80°	4.8	4.6	5.0	4.4
82.5°	3.0	3.2	3.0	3.2
85°	2.0	2.4	2.2	2.2
87.5°	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)