

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: P246126

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246126
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 EC8B10850 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1036.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

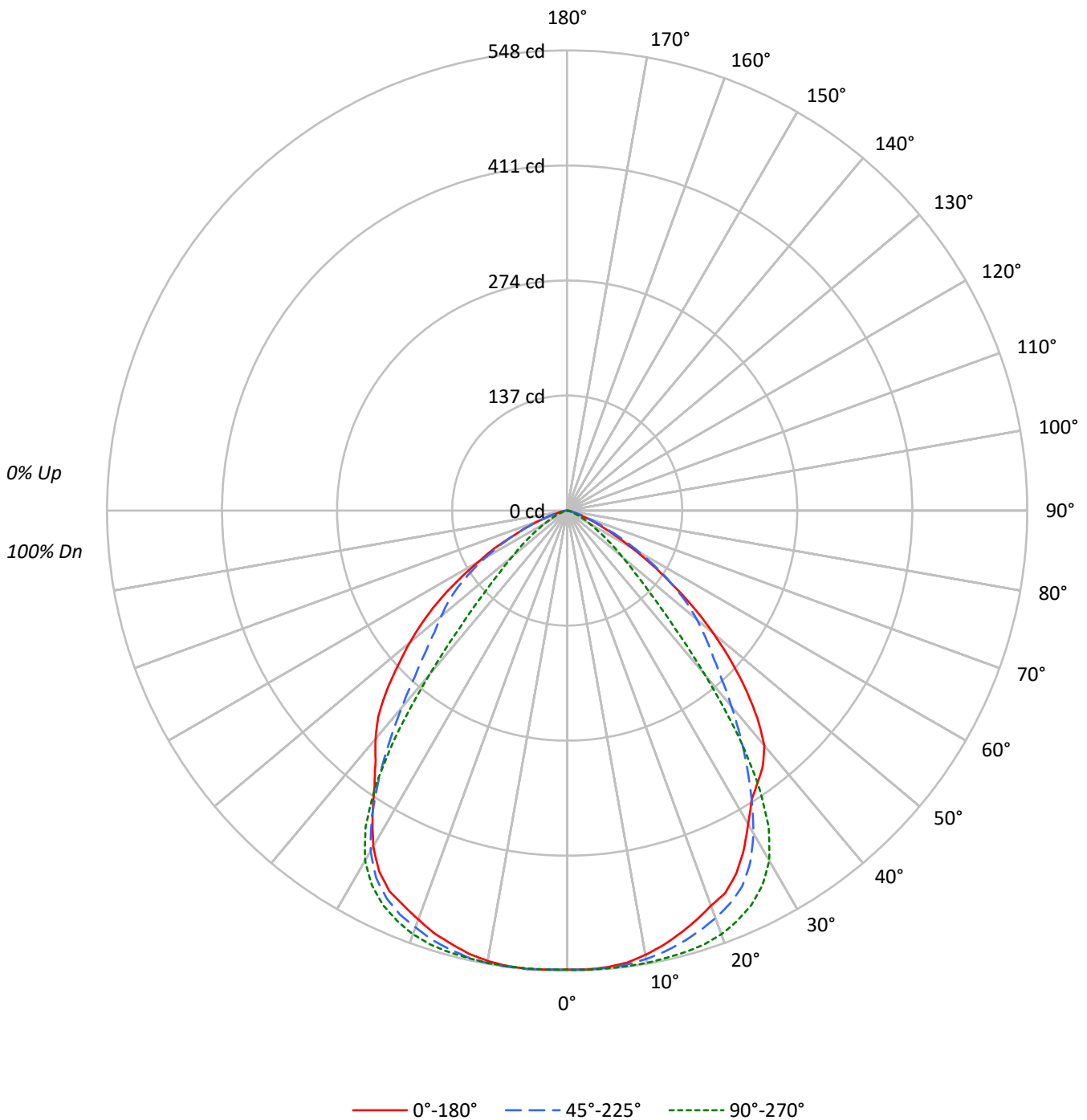
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 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	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	51	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°	16855	16855	16855
5°	16892	16938	16957
10°	16821	17125	17053
15°	16636	17376	17047
20°	16434	17619	17005
25°	16223	17642	17022
30°	15346	17145	16443
35°	14888	14900	15054
40°	14705	10253	14290
45°	13100	6153	13283
50°	10895	4097	11739
55°	8172	2822	9951
60°	5538	1881	7512
65°	3342	1219	5159
70°	1848	658	3174
75°	834	274	1644
80°	728	320	1154
85°	814	425	1132



TEST NUMBER: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	5.0
10°-20°	151.5	14.6
20°-30°	229.9	22.2
30°-40°	241.5	23.3
40°-50°	181.1	17.5
50°-60°	116.2	11.2
60°-70°	49.7	4.8
70°-80°	11.7	1.1
80°-90°	2.2	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°	433.6	41.9
0°-40°	675.1	65.2
0°-60°	972.4	93.9
0°-90°	1036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	547	547	547	547	547	
5°	546	547	547	548	548	52
15°	521	532	544	541	534	147
25°	477	494	518	509	500	218
35°	396	374	396	391	400	248
45°	300	246	141	238	305	230
55°	152	152	52	158	185	138
65°	46	54	17	70	71	49
75°	7	8	2	14	14	10
85°	2	2	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
2.5°	546.9	547.5	547.2	547.2	546.9	547.2	547.2	547.8	547.8	547.2	546.9
5°	545.7	546.3	546.3	545.7	545.7	547.2	546.3	546.9	546.9	546.6	546.6
7.5°	543.1	543.1	544.3	543.4	543.4	544.3	544.0	544.6	545.1	545.4	545.4
10°	537.2	537.8	538.1	538.1	538.4	539.3	539.9	541.0	541.6	542.2	542.5
12.5°	529.9	530.8	531.1	530.8	531.7	532.8	534.3	535.8	536.6	537.8	538.7
15°	521.1	521.1	521.7	522.6	523.1	524.9	526.4	528.1	530.5	531.9	533.4
17.5°	511.4	512.0	512.9	512.9	514.0	517.0	517.9	520.5	523.1	524.6	527.5
20°	500.8	501.4	502.3	502.9	504.4	506.7	508.5	510.8	513.8	516.4	519.3
22.5°	492.6	491.5	492.0	492.6	494.1	496.2	498.2	501.1	504.1	506.7	509.6
25°	476.8	477.1	478.0	478.5	480.3	482.1	484.4	487.9	490.6	493.5	496.7
27.5°	455.4	455.7	457.1	457.1	458.6	461.5	463.0	465.9	469.5	472.4	476.2
30°	431.0	431.6	431.6	432.8	433.7	435.1	436.6	439.5	441.3	443.9	449.2
32.5°	408.7	409.3	409.0	408.7	407.8	407.5	407.2	407.8	408.4	409.3	411.4
35°	395.5	394.0	392.9	390.8	388.5	385.5	382.9	379.4	376.1	373.5	370.6
37.5°	382.9	382.6	380.8	377.9	373.2	367.9	361.8	354.1	346.5	338.3	330.4
40°	365.3	364.4	362.9	358.8	353.6	347.1	338.9	329.5	317.2	304.6	291.6
42.5°	335.4	335.7	333.9	330.7	325.7	319.5	311.0	300.7	287.5	272.6	255.9
45°	300.4	300.4	299.9	297.2	293.7	288.7	282.3	273.7	260.8	245.6	227.7
47.5°	264.1	264.4	263.5	262.9	261.4	258.2	253.5	247.0	238.0	223.3	205.4
50°	227.1	227.1	228.6	228.3	228.3	227.1	225.0	221.2	213.3	201.6	184.8
52.5°	190.1	190.7	191.6	192.8	194.2	196.6	194.2	192.5	187.5	178.4	164.0
55°	152.0	152.6	154.0	156.1	157.9	160.2	160.8	160.8	158.1	152.0	141.1
57.5°	119.4	118.5	119.7	121.5	123.8	126.2	127.9	130.0	129.7	125.6	116.8
60°	89.8	90.1	91.0	92.7	94.5	96.5	98.9	100.6	101.5	99.5	93.9
62.5°	65.4	65.4	66.6	68.4	69.2	72.2	73.6	74.5	75.4	75.1	71.6
65°	45.8	46.4	46.9	47.8	48.7	50.5	51.3	53.1	53.7	54.0	51.3
67.5°	32.3	31.4	32.0	32.6	33.4	34.6	36.4	36.4	37.3	37.3	35.5
70°	20.5	20.5	20.8	21.7	22.3	22.6	23.2	23.8	24.6	24.4	24.4
72.5°	13.8	13.5	13.8	14.1	14.4	15.3	15.3	15.6	16.1	16.4	15.3
75°	7.0	7.3	7.9	7.6	8.5	7.9	8.2	9.1	8.8	8.2	8.2
77.5°	5.9	5.9	5.9	5.6	6.2	6.2	5.9	6.5	6.2	6.2	5.9
80°	4.1	4.4	4.1	3.8	4.1	3.8	3.8	3.8	3.8	3.8	3.5
82.5°	3.2	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
2.5°	547.5	547.2	547.8	547.5	547.5	547.2	547.5	547.2	547.8	546.6	546.9
5°	547.5	546.9	547.2	547.5	547.8	547.2	547.2	547.2	547.8	547.2	547.5
7.5°	546.3	546.0	546.9	547.5	547.2	546.9	547.5	547.2	547.8	547.5	548.1
10°	544.0	544.3	544.9	545.7	546.0	546.3	546.9	546.9	547.8	546.6	547.2
12.5°	540.5	541.6	543.1	543.7	544.9	544.9	545.4	545.7	546.3	546.0	546.9
15°	536.1	537.5	539.3	540.7	542.2	543.1	544.0	544.3	545.1	544.3	544.6
17.5°	530.8	532.5	535.2	536.9	539.3	540.2	541.3	541.9	542.8	542.2	542.5
20°	523.4	525.5	528.4	531.1	532.5	534.6	536.1	536.9	537.5	536.9	537.2
22.5°	513.2	516.1	519.9	522.0	524.9	526.7	527.0	529.0	530.5	529.0	529.6
25°	501.1	504.1	507.0	511.4	514.0	516.1	518.2	518.5	519.9	519.6	519.3
27.5°	481.2	485.0	490.0	493.5	497.0	500.3	502.6	503.2	504.7	504.1	504.4
30°	453.9	458.0	462.7	468.3	473.3	476.5	479.4	481.5	482.9	482.1	481.8
32.5°	415.2	419.3	424.3	429.8	435.7	440.4	443.9	446.6	448.3	447.7	446.3
35°	370.9	372.0	375.3	379.7	384.7	389.6	392.9	395.8	397.9	398.4	398.4
37.5°	325.4	321.6	319.2	319.2	322.2	324.2	327.1	328.9	332.1	333.3	334.2
40°	281.4	272.6	264.4	258.2	254.1	253.8	253.8	254.7	257.6	261.4	264.9
42.5°	242.1	228.0	215.4	203.9	195.7	191.0	189.0	189.2	191.6	195.1	201.0
45°	210.7	193.1	177.2	163.4	152.3	144.9	141.4	141.1	142.9	147.0	153.5
47.5°	186.3	167.5	149.6	133.8	121.8	113.8	109.7	108.6	109.7	113.5	121.2
50°	166.1	146.7	128.2	111.8	98.9	90.7	86.8	85.4	86.8	90.1	97.7
52.5°	147.3	127.3	110.0	94.2	80.4	73.3	69.2	68.4	69.2	73.1	79.2
55°	125.6	108.6	91.5	75.7	63.7	56.6	53.4	52.5	53.4	56.9	63.4
57.5°	104.2	89.5	74.5	60.1	49.9	43.7	40.8	39.6	41.7	44.0	51.6
60°	84.2	72.5	59.9	47.2	38.7	33.2	30.8	30.5	31.1	34.0	39.3
62.5°	66.0	56.3	46.4	36.1	29.0	26.7	23.8	23.5	24.1	25.8	29.9
65°	47.5	41.4	33.7	26.4	20.8	17.6	16.4	16.7	17.3	18.5	22.3
67.5°	33.2	28.8	23.5	18.5	14.4	12.9	11.7	11.4	11.7	13.8	15.8
70°	22.3	19.7	15.8	14.1	10.0	7.9	8.2	7.3	8.5	8.5	10.3
72.5°	14.7	12.9	10.6	8.2	7.0	5.6	5.6	5.3	5.9	6.2	7.6
75°	7.6	5.9	5.9	4.1	2.9	1.5	2.6	2.3	2.1	2.3	2.9
77.5°	5.3	4.4	4.1	3.2	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.2	3.2	2.3	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.5	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: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
2.5°	547.5	547.8	547.8	547.5	547.5	546.9	548.1	547.2	547.5	548.7	547.8
5°	548.1	548.4	548.4	548.1	548.1	548.1	548.4	548.4	548.1	547.8	548.4
7.5°	549.3	549.0	549.0	548.4	548.4	547.8	548.4	547.5	548.1	547.5	548.4
10°	547.8	548.1	547.8	547.5	547.5	547.2	547.2	546.3	546.6	545.7	546.3
12.5°	546.9	546.6	546.6	546.0	545.4	544.9	544.6	543.7	543.7	541.6	542.5
15°	544.6	544.9	544.0	542.8	542.2	540.7	540.2	539.0	537.8	536.3	536.6
17.5°	542.5	541.6	540.5	539.3	536.9	535.8	534.6	532.8	532.2	530.5	529.9
20°	536.3	535.8	534.3	532.2	530.8	528.1	527.0	525.2	523.7	522.0	521.1
22.5°	528.4	527.8	526.1	524.0	521.7	520.5	519.3	516.1	514.6	512.9	512.6
25°	518.5	517.6	515.8	513.5	512.3	509.1	507.9	505.5	505.0	503.2	502.9
27.5°	503.2	502.0	500.0	497.0	495.0	492.9	491.8	490.0	489.4	487.6	487.3
30°	480.3	478.8	474.7	473.6	470.0	468.0	468.0	465.6	465.9	464.8	464.8
32.5°	444.2	441.9	438.6	436.3	433.9	432.8	432.8	431.9	432.5	432.5	433.1
35°	396.4	393.2	391.4	389.9	389.9	391.1	394.6	395.5	397.3	398.7	399.9
37.5°	335.1	334.8	336.8	338.6	343.0	348.0	354.1	359.4	364.4	367.9	371.4
40°	268.8	276.1	282.0	290.2	296.9	306.6	317.8	326.9	335.4	341.5	348.0
42.5°	209.8	219.2	231.5	243.5	255.6	268.8	283.4	296.0	307.2	315.7	322.5
45°	163.4	176.3	191.3	206.6	222.1	238.5	253.8	266.7	278.4	287.2	294.0
47.5°	131.7	145.8	162.8	179.6	197.2	214.5	231.5	242.6	252.3	259.4	265.5
50°	108.9	123.8	141.7	160.8	178.4	195.7	210.4	221.2	229.2	235.3	239.1
52.5°	91.0	106.8	125.9	144.9	162.5	178.4	191.6	199.8	206.3	210.7	214.2
55°	75.1	90.4	108.3	126.2	143.5	158.4	169.3	175.5	180.4	183.1	185.1
57.5°	61.3	75.4	91.8	108.3	123.2	135.6	144.1	150.2	152.6	154.6	154.3
60°	48.1	61.3	76.3	90.4	103.3	113.3	119.4	122.9	124.7	125.6	125.0
62.5°	37.8	49.9	61.3	73.6	83.0	91.5	97.4	97.4	98.3	98.6	99.5
65°	28.2	37.3	47.2	56.3	64.0	69.5	72.8	73.6	74.8	74.5	73.9
67.5°	20.8	27.6	34.9	41.7	46.9	50.5	52.8	54.9	54.6	54.0	53.7
70°	14.4	18.8	25.2	29.3	33.2	36.7	37.3	37.6	37.8	38.1	37.6
72.5°	10.0	13.2	16.7	20.2	22.6	24.1	25.5	25.8	25.8	25.8	25.5
75°	5.0	6.7	10.0	11.4	13.5	14.1	15.3	15.3	16.1	15.0	14.7
77.5°	4.4	5.3	7.0	8.2	9.1	10.0	10.3	11.1	10.9	10.3	10.6
80°	2.6	3.2	4.4	5.0	6.2	6.5	6.7	7.0	6.7	7.0	7.0
82.5°	2.1	2.3	2.9	2.9	3.8	3.8	4.1	4.1	4.4	4.4	4.4
85°	1.2	2.1	1.8	3.5	2.3	2.3	2.9	3.5	2.9	2.9	3.5
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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: P246126

CATALOG NUMBER: LSR8B10D010 EC8B10850 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	546.6	546.6	546.6	546.6
2.5°	547.5	548.1	547.2	546.9
5°	548.4	548.4	547.8	547.8
7.5°	548.4	548.4	547.5	546.9
10°	546.0	546.0	545.1	544.6
12.5°	541.6	541.6	541.3	540.5
15°	536.1	536.1	534.9	534.0
17.5°	528.4	529.0	527.5	527.5
20°	520.2	519.9	518.7	518.2
22.5°	511.7	511.1	510.8	509.1
25°	502.6	502.0	501.1	500.3
27.5°	487.1	486.8	485.9	484.7
30°	463.3	463.0	461.8	461.8
32.5°	432.5	432.2	431.0	431.3
35°	400.5	401.7	401.1	399.9
37.5°	373.8	374.7	375.3	374.7
40°	351.5	354.1	354.4	355.0
42.5°	327.7	331.3	332.4	333.0
45°	299.3	302.5	305.1	304.6
47.5°	270.2	272.6	274.9	273.2
50°	242.4	243.8	244.7	244.7
52.5°	215.9	215.9	215.7	215.9
55°	185.7	185.7	184.6	185.1
57.5°	154.0	154.6	153.7	152.3
60°	124.7	123.2	122.6	121.8
62.5°	97.1	97.1	95.1	97.7
65°	72.8	71.9	71.0	70.7
67.5°	52.8	52.5	51.6	51.3
70°	37.3	36.1	35.8	35.2
72.5°	24.9	24.9	24.4	24.4
75°	15.3	13.8	13.5	13.8
77.5°	10.6	10.3	10.3	10.0
80°	7.0	6.7	7.3	6.5
82.5°	4.4	4.7	4.4	4.7
85°	2.9	3.5	3.2	3.2
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)