

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: P246072

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246072
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 EC8B10935 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 964.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

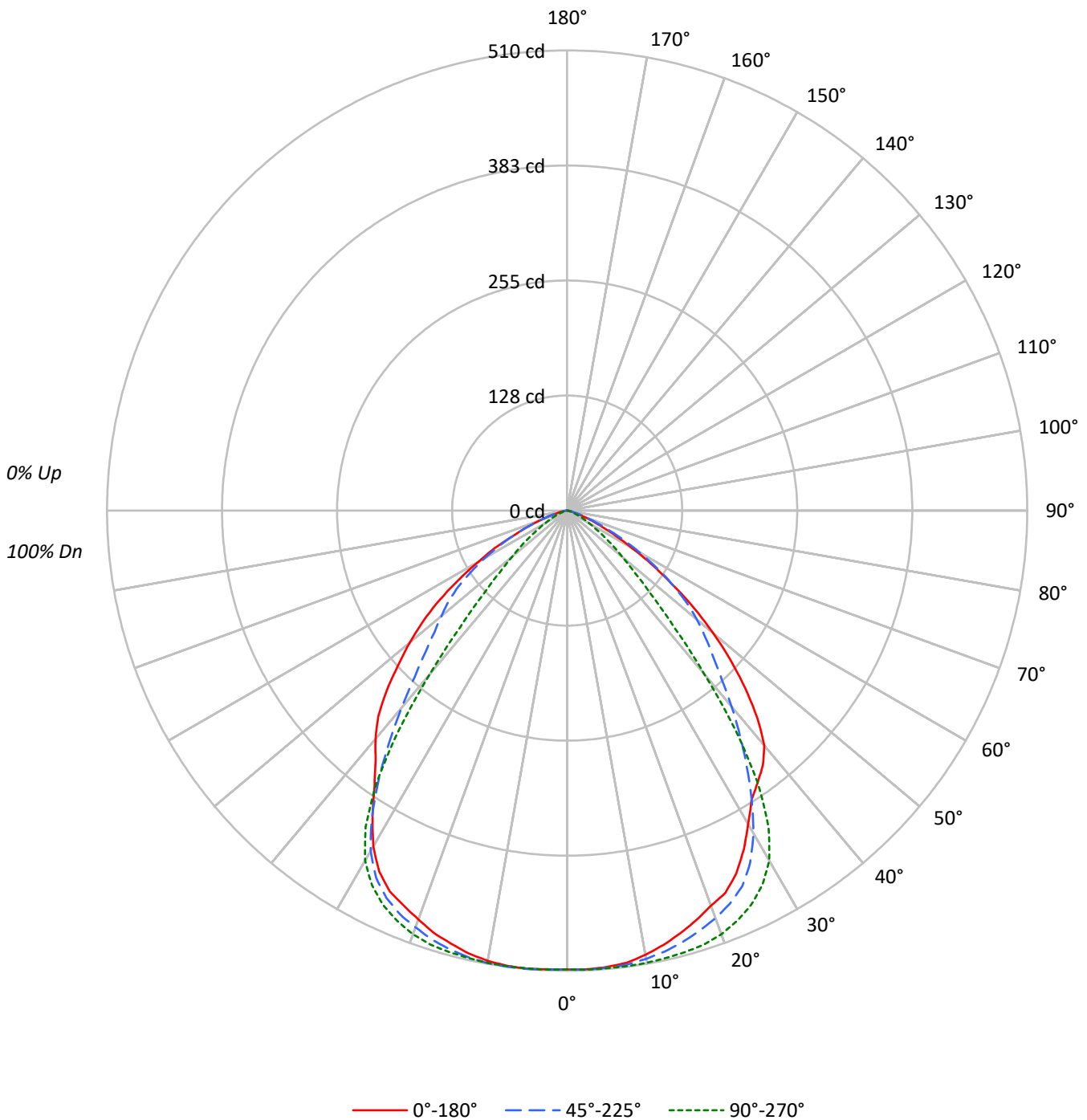
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

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	51	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°	15683	15683	15683
5°	15718	15762	15777
10°	15653	15935	15866
15°	15480	16166	15863
20°	15292	16395	15820
25°	15093	16413	15838
30°	14282	15952	15300
35°	13853	13864	14007
40°	13682	9540	13300
45°	12193	5726	12359
50°	10137	3809	10923
55°	7602	2629	9263
60°	5150	1752	6988
65°	3108	1138	4801
70°	1722	613	2957
75°	786	262	1525
80°	675	284	1065
85°	778	389	1061



TEST NUMBER: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	5.0
10°-20°	141.0	14.6
20°-30°	214.0	22.2
30°-40°	224.7	23.3
40°-50°	168.5	17.5
50°-60°	108.1	11.2
60°-70°	46.2	4.8
70°-80°	10.9	1.1
80°-90°	2.0	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°	403.5	41.9
0°-40°	628.2	65.2
0°-60°	904.8	93.9
0°-90°	964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	509	509	509	509	509	
5°	508	509	509	510	510	48
15°	485	495	506	503	497	137
25°	444	459	482	474	466	203
35°	368	348	368	364	372	231
45°	280	228	131	222	283	214
55°	141	141	49	147	172	128
65°	43	50	16	65	66	45
75°	7	8	2	13	13	10
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	508.9	509.4	509.2	509.2	508.9	509.2	509.2	509.7	509.7	509.2	508.9
5°	507.8	508.4	508.4	507.8	507.8	509.2	508.4	508.9	508.9	508.6	508.6
7.5°	505.4	505.4	506.4	505.6	505.6	506.4	506.2	506.7	507.3	507.5	507.5
10°	499.9	500.4	500.7	500.7	501.0	501.8	502.3	503.4	504.0	504.5	504.8
12.5°	493.1	493.9	494.2	493.9	494.7	495.8	497.2	498.5	499.3	500.4	501.3
15°	484.9	484.9	485.4	486.2	486.8	488.4	489.8	491.4	493.6	495.0	496.3
17.5°	475.9	476.4	477.2	477.2	478.3	481.0	481.9	484.3	486.8	488.2	490.9
20°	466.0	466.6	467.4	467.9	469.3	471.5	473.1	475.3	478.0	480.5	483.2
22.5°	458.4	457.3	457.8	458.4	459.8	461.7	463.6	466.3	469.0	471.5	474.2
25°	443.6	443.9	444.7	445.3	446.9	448.6	450.7	454.0	456.5	459.2	462.2
27.5°	423.7	424.0	425.4	425.4	426.7	429.5	430.8	433.5	436.8	439.6	443.1
30°	401.1	401.6	401.6	402.7	403.5	404.9	406.2	409.0	410.6	413.1	418.0
32.5°	380.3	380.9	380.6	380.3	379.5	379.2	378.9	379.5	380.0	380.9	382.8
35°	368.0	366.7	365.6	363.7	361.5	358.7	356.3	353.0	350.0	347.5	344.8
37.5°	356.3	356.0	354.4	351.6	347.3	342.4	336.6	329.5	322.4	314.8	307.4
40°	339.9	339.1	337.7	333.9	329.0	323.0	315.3	306.6	295.1	283.4	271.4
42.5°	312.1	312.3	310.7	307.7	303.0	297.3	289.4	279.8	267.6	253.6	238.1
45°	279.6	279.6	279.0	276.6	273.3	268.6	262.6	254.7	242.7	228.5	211.9
47.5°	245.7	246.0	245.2	244.6	243.3	240.3	235.9	229.9	221.4	207.8	191.1
50°	211.3	211.3	212.7	212.4	212.4	211.3	209.4	205.9	198.5	187.6	172.0
52.5°	176.9	177.5	178.3	179.4	180.7	182.9	180.7	179.1	174.5	166.0	152.6
55°	141.4	142.0	143.3	145.2	146.9	149.1	149.6	149.6	147.2	141.4	131.3
57.5°	111.1	110.3	111.4	113.0	115.2	117.4	119.0	120.9	120.7	116.9	108.7
60°	83.5	83.8	84.6	86.3	87.9	89.8	92.0	93.6	94.5	92.6	87.4
62.5°	60.9	60.9	62.0	63.6	64.4	67.2	68.5	69.3	70.2	69.9	66.6
65°	42.6	43.1	43.7	44.5	45.3	47.0	47.8	49.4	50.0	50.2	47.8
67.5°	30.0	29.2	29.8	30.3	31.1	32.2	33.9	33.9	34.7	34.7	33.0
70°	19.1	19.1	19.4	20.2	20.7	21.0	21.6	22.1	22.9	22.7	22.7
72.5°	12.8	12.6	12.8	13.1	13.4	14.2	14.2	14.5	15.0	15.3	14.2
75°	6.6	6.8	7.4	7.1	7.9	7.4	7.6	8.5	8.2	7.6	7.6
77.5°	5.5	5.5	5.5	5.2	5.7	5.7	5.5	6.0	5.7	5.7	5.5
80°	3.8	4.1	3.8	3.5	3.8	3.5	3.5	3.5	3.5	3.5	3.3
82.5°	3.0	2.5	2.7	2.5	2.7	2.7	2.5	2.2	2.2	2.5	2.2
85°	2.2	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.4	1.4
87.5°	1.4	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.5
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: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	509.4	509.2	509.7	509.4	509.4	509.2	509.4	509.2	509.7	508.6	508.9
5°	509.4	508.9	509.2	509.4	509.7	509.2	509.2	509.2	509.7	509.2	509.4
7.5°	508.4	508.1	508.9	509.4	509.2	508.9	509.4	509.2	509.7	509.4	510.0
10°	506.2	506.4	507.0	507.8	508.1	508.4	508.9	508.9	509.7	508.6	509.2
12.5°	502.9	504.0	505.4	505.9	507.0	507.0	507.5	507.8	508.4	508.1	508.9
15°	498.8	500.2	501.8	503.2	504.5	505.4	506.2	506.4	507.3	506.4	506.7
17.5°	493.9	495.5	498.0	499.6	501.8	502.6	503.7	504.3	505.1	504.5	504.8
20°	487.1	489.0	491.7	494.2	495.5	497.4	498.8	499.6	500.2	499.6	499.9
22.5°	477.5	480.2	483.8	485.7	488.4	490.1	490.3	492.2	493.6	492.2	492.8
25°	466.3	469.0	471.8	475.9	478.3	480.2	482.1	482.4	483.8	483.5	483.2
27.5°	447.7	451.3	455.9	459.2	462.5	465.5	467.7	468.2	469.6	469.0	469.3
30°	422.4	426.2	430.5	435.7	440.4	443.4	446.1	448.0	449.4	448.6	448.3
32.5°	386.3	390.1	394.8	400.0	405.4	409.8	413.1	415.5	417.2	416.6	415.3
35°	345.1	346.2	349.2	353.3	357.9	362.6	365.6	368.3	370.2	370.8	370.8
37.5°	302.8	299.2	297.0	297.0	299.8	301.7	304.4	306.0	309.1	310.1	311.0
40°	261.8	253.6	246.0	240.3	236.4	236.2	236.2	237.0	239.7	243.3	246.5
42.5°	225.2	212.1	200.4	189.7	182.1	177.7	175.8	176.1	178.3	181.6	187.0
45°	196.0	179.6	164.9	152.1	141.7	134.9	131.6	131.3	133.0	136.8	142.8
47.5°	173.4	155.9	139.2	124.5	113.3	105.9	102.1	101.0	102.1	105.7	112.8
50°	154.5	136.5	119.3	104.0	92.0	84.4	80.8	79.4	80.8	83.8	90.9
52.5°	137.1	118.5	102.4	87.6	74.8	68.3	64.4	63.6	64.4	68.0	73.7
55°	116.9	101.0	85.2	70.4	59.2	52.7	49.7	48.9	49.7	53.0	59.0
57.5°	96.9	83.3	69.3	56.0	46.4	40.7	38.0	36.9	38.8	40.9	48.1
60°	78.4	67.4	55.7	44.0	36.0	30.8	28.7	28.4	28.9	31.7	36.6
62.5°	61.4	52.4	43.1	33.6	27.0	24.8	22.1	21.8	22.4	24.0	27.8
65°	44.2	38.5	31.4	24.6	19.4	16.4	15.3	15.6	16.1	17.2	20.7
67.5°	30.8	26.8	21.8	17.2	13.4	12.0	10.9	10.6	10.9	12.8	14.7
70°	20.7	18.3	14.7	13.1	9.3	7.4	7.6	6.8	7.9	7.9	9.6
72.5°	13.6	12.0	9.8	7.6	6.6	5.2	5.2	4.9	5.5	5.7	7.1
75°	7.1	5.5	5.5	3.8	2.7	1.4	2.5	2.2	1.9	2.2	2.7
77.5°	4.9	4.1	3.8	3.0	2.7	2.2	2.2	2.2	2.2	2.5	2.7
80°	3.0	3.0	2.2	1.9	1.6	1.4	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.5	0.8	0.8	0.8	0.5	0.3	0.5	0.8	0.8	1.4	1.1
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: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	509.4	509.7	509.7	509.4	509.4	508.9	510.0	509.2	509.4	510.5	509.7
5°	510.0	510.3	510.3	510.0	510.0	510.0	510.3	510.3	510.0	509.7	510.3
7.5°	511.1	510.8	510.8	510.3	510.3	509.7	510.3	509.4	510.0	509.4	510.3
10°	509.7	510.0	509.7	509.4	509.4	509.2	509.2	508.4	508.6	507.8	508.4
12.5°	508.9	508.6	508.6	508.1	507.5	507.0	506.7	505.9	505.9	504.0	504.8
15°	506.7	507.0	506.2	505.1	504.5	503.2	502.6	501.5	500.4	499.1	499.3
17.5°	504.8	504.0	502.9	501.8	499.6	498.5	497.4	495.8	495.2	493.6	493.1
20°	499.1	498.5	497.2	495.2	493.9	491.4	490.3	488.7	487.3	485.7	484.9
22.5°	491.7	491.2	489.5	487.6	485.4	484.3	483.2	480.2	478.9	477.2	477.0
25°	482.4	481.6	480.0	477.8	476.7	473.7	472.6	470.4	469.9	468.2	467.9
27.5°	468.2	467.1	465.2	462.5	460.6	458.7	457.6	455.9	455.4	453.7	453.5
30°	446.9	445.6	441.7	440.6	437.4	435.5	435.5	433.3	433.5	432.5	432.5
32.5°	413.3	411.2	408.2	406.0	403.8	402.7	402.7	401.9	402.4	402.4	403.0
35°	368.8	365.8	364.2	362.8	362.8	363.9	367.2	368.0	369.7	371.0	372.1
37.5°	311.8	311.5	313.4	315.1	319.2	323.8	329.5	334.4	339.1	342.4	345.6
40°	250.1	256.9	262.4	270.0	276.3	285.3	295.7	304.1	312.1	317.8	323.8
42.5°	195.2	203.9	215.4	226.6	237.8	250.1	263.7	275.5	285.8	293.8	300.0
45°	152.1	164.1	178.0	192.2	206.7	222.0	236.2	248.2	259.1	267.3	273.6
47.5°	122.6	135.7	151.5	167.1	183.5	199.6	215.4	225.8	234.8	241.3	247.1
50°	101.3	115.2	131.9	149.6	166.0	182.1	195.8	205.9	213.2	219.0	222.5
52.5°	84.6	99.4	117.1	134.9	151.2	166.0	178.3	185.9	191.9	196.0	199.3
55°	69.9	84.1	100.7	117.4	133.5	147.4	157.5	163.3	167.9	170.4	172.3
57.5°	57.1	70.2	85.5	100.7	114.7	126.1	134.1	139.8	142.0	143.9	143.6
60°	44.8	57.1	71.0	84.1	96.1	105.4	111.1	114.4	116.0	116.9	116.3
62.5°	35.2	46.4	57.1	68.5	77.3	85.2	90.6	90.6	91.5	91.7	92.6
65°	26.2	34.7	44.0	52.4	59.5	64.7	67.7	68.5	69.6	69.3	68.8
67.5°	19.4	25.7	32.5	38.8	43.7	47.0	49.1	51.1	50.8	50.2	50.0
70°	13.4	17.5	23.5	27.3	30.8	34.1	34.7	34.9	35.2	35.5	34.9
72.5°	9.3	12.3	15.6	18.8	21.0	22.4	23.8	24.0	24.0	24.0	23.8
75°	4.6	6.3	9.3	10.6	12.6	13.1	14.2	14.2	15.0	13.9	13.6
77.5°	4.1	4.9	6.6	7.6	8.5	9.3	9.6	10.4	10.1	9.6	9.8
80°	2.5	3.0	4.1	4.6	5.7	6.0	6.3	6.6	6.3	6.6	6.6
82.5°	1.9	2.2	2.7	2.7	3.5	3.5	3.8	3.8	4.1	4.1	4.1
85°	1.1	1.9	1.6	3.3	2.2	2.2	2.7	3.3	2.7	2.7	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.4	1.6	1.6	1.9	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: P246072

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	508.6	508.6	508.6	508.6
2.5°	509.4	510.0	509.2	508.9
5°	510.3	510.3	509.7	509.7
7.5°	510.3	510.3	509.4	508.9
10°	508.1	508.1	507.3	506.7
12.5°	504.0	504.0	503.7	502.9
15°	498.8	498.8	497.7	496.9
17.5°	491.7	492.2	490.9	490.9
20°	484.1	483.8	482.7	482.1
22.5°	476.1	475.6	475.3	473.7
25°	467.7	467.1	466.3	465.5
27.5°	453.2	452.9	452.1	451.0
30°	431.1	430.8	429.7	429.7
32.5°	402.4	402.1	401.1	401.3
35°	372.7	373.8	373.2	372.1
37.5°	347.8	348.6	349.2	348.6
40°	327.1	329.5	329.8	330.4
42.5°	305.0	308.2	309.3	309.9
45°	278.5	281.5	283.9	283.4
47.5°	251.4	253.6	255.8	254.2
50°	225.5	226.9	227.7	227.7
52.5°	200.9	200.9	200.7	200.9
55°	172.8	172.8	171.7	172.3
57.5°	143.3	143.9	143.1	141.7
60°	116.0	114.7	114.1	113.3
62.5°	90.4	90.4	88.5	90.9
65°	67.7	66.9	66.1	65.8
67.5°	49.1	48.9	48.1	47.8
70°	34.7	33.6	33.3	32.8
72.5°	23.2	23.2	22.7	22.7
75°	14.2	12.8	12.6	12.8
77.5°	9.8	9.6	9.6	9.3
80°	6.6	6.3	6.8	6.0
82.5°	4.1	4.4	4.1	4.4
85°	2.7	3.3	3.0	3.0
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)