

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: P246223

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246223
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 EC8B15940 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1379.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

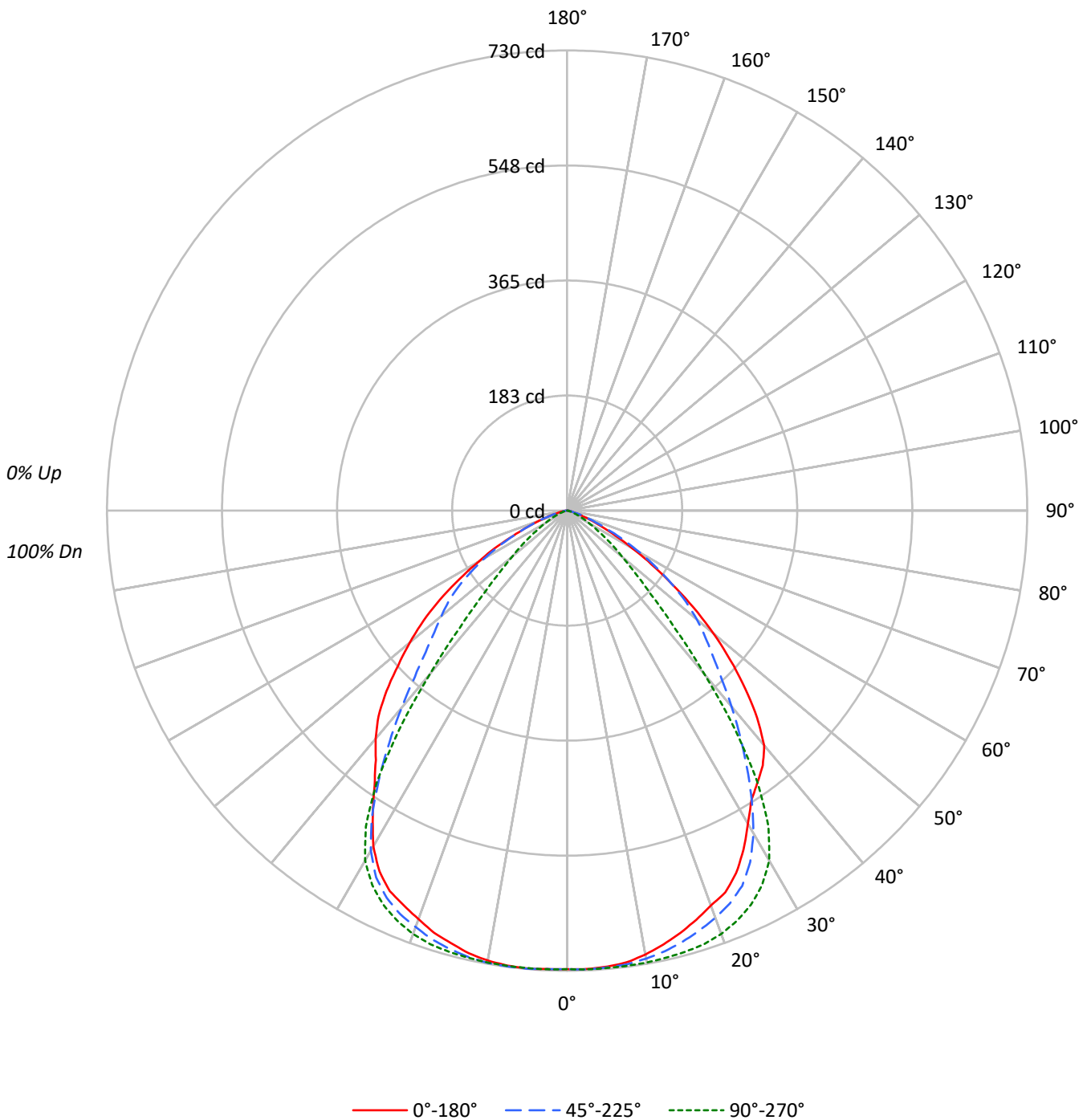
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 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	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°	22437	22437	22437
5°	22485	22547	22572
10°	22391	22795	22698
15°	22143	23129	22692
20°	21878	23453	22633
25°	21592	23480	22657
30°	20428	22820	21887
35°	19820	19831	20038
40°	19571	13646	19024
45°	17439	8194	17679
50°	14502	5450	15625
55°	10876	3758	13247
60°	7370	2504	9997
65°	4444	1627	6866
70°	2461	884	4228
75°	1120	369	2192
80°	977	408	1527
85°	1097	566	1521



TEST NUMBER: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	5.0
10°-20°	201.7	14.6
20°-30°	306.1	22.2
30°-40°	321.5	23.3
40°-50°	241.0	17.5
50°-60°	154.6	11.2
60°-70°	66.2	4.8
70°-80°	15.6	1.1
80°-90°	2.9	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°	577.2	41.9
0°-40°	898.6	65.2
0°-60°	1294.3	93.9
0°-90°	1379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	728	728	728	728	728	
5°	726	728	728	730	729	69
15°	694	708	724	720	711	196
25°	635	657	690	678	666	290
35°	526	497	527	521	532	330
45°	400	327	188	318	405	306
55°	202	202	70	211	246	184
65°	61	72	22	93	94	65
75°	9	11	3	19	18	14
85°	3	2	2	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	728.0	728.8	728.4	728.4	728.0	728.4	728.4	729.2	729.2	728.4	728.0
5°	726.4	727.2	727.2	726.4	726.4	728.4	727.2	728.0	728.0	727.6	727.6
7.5°	722.9	722.9	724.5	723.3	723.3	724.5	724.1	724.9	725.6	726.0	726.0
10°	715.1	715.9	716.3	716.3	716.7	717.8	718.6	720.2	720.9	721.7	722.1
12.5°	705.3	706.5	706.9	706.5	707.7	709.2	711.2	713.1	714.3	715.9	717.0
15°	693.6	693.6	694.4	695.6	696.3	698.7	700.6	703.0	706.1	708.1	710.0
17.5°	680.7	681.5	682.7	682.7	684.2	688.1	689.3	692.8	696.3	698.3	702.2
20°	666.7	667.4	668.6	669.4	671.4	674.5	676.8	679.9	683.8	687.4	691.3
22.5°	655.7	654.2	654.9	655.7	657.7	660.4	663.2	667.1	671.0	674.5	678.4
25°	634.6	635.0	636.2	637.0	639.3	641.7	644.8	649.5	653.0	656.9	661.2
27.5°	606.1	606.5	608.5	608.5	610.4	614.3	616.3	620.2	624.9	628.8	633.9
30°	573.7	574.5	574.5	576.1	577.2	579.2	581.1	585.0	587.4	590.9	597.9
32.5°	544.0	544.8	544.4	544.0	542.9	542.5	542.1	542.9	543.6	544.8	547.5
35°	526.5	524.5	522.9	520.2	517.1	513.2	509.7	505.0	500.7	497.2	493.3
37.5°	509.7	509.3	506.9	503.0	496.8	489.7	481.5	471.4	461.2	450.3	439.8
40°	486.2	485.1	483.1	477.6	470.6	462.0	451.1	438.6	422.2	405.4	388.2
42.5°	446.4	446.8	444.4	440.1	433.5	425.3	414.0	400.3	382.7	362.8	340.6
45°	399.9	399.9	399.1	395.6	390.9	384.3	375.7	364.4	347.2	326.9	303.1
47.5°	351.5	351.9	350.7	349.9	348.0	343.7	337.4	328.8	316.7	297.2	273.4
50°	302.3	302.3	304.2	303.8	303.8	302.3	299.6	294.5	283.9	268.3	246.0
52.5°	253.1	253.9	255.0	256.6	258.5	261.7	258.5	256.2	249.6	237.4	218.3
55°	202.3	203.1	205.0	207.8	210.1	213.2	214.0	214.0	210.5	202.3	187.9
57.5°	159.0	157.8	159.3	161.7	164.8	167.9	170.3	173.0	172.6	167.2	155.4
60°	119.5	119.9	121.1	123.4	125.8	128.5	131.6	134.0	135.1	132.4	125.0
62.5°	87.1	87.1	88.7	91.0	92.2	96.1	98.0	99.2	100.4	100.0	95.3
65°	60.9	61.7	62.5	63.7	64.8	67.2	68.3	70.7	71.5	71.9	68.3
67.5°	43.0	41.8	42.6	43.3	44.5	46.1	48.4	48.4	49.6	49.6	47.3
70°	27.3	27.3	27.7	28.9	29.7	30.1	30.9	31.6	32.8	32.4	32.4
72.5°	18.4	18.0	18.4	18.7	19.1	20.3	20.3	20.7	21.5	21.9	20.3
75°	9.4	9.8	10.5	10.2	11.3	10.5	10.9	12.1	11.7	10.9	10.9
77.5°	7.8	7.8	7.8	7.4	8.2	8.2	7.8	8.6	8.2	8.2	7.8
80°	5.5	5.9	5.5	5.1	5.5	5.1	5.1	5.1	5.1	5.1	4.7
82.5°	4.3	3.5	3.9	3.5	3.9	3.9	3.5	3.1	3.1	3.5	3.1
85°	3.1	2.3	2.7	2.7	2.3	2.3	2.3	2.3	2.3	1.9	1.9
87.5°	1.9	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: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	728.8	728.4	729.2	728.8	728.8	728.4	728.8	728.4	729.2	727.6	728.0
5°	728.8	728.0	728.4	728.8	729.2	728.4	728.4	728.4	729.2	728.4	728.8
7.5°	727.2	726.8	728.0	728.8	728.4	728.0	728.8	728.4	729.2	728.8	729.5
10°	724.1	724.5	725.2	726.4	726.8	727.2	728.0	728.0	729.2	727.6	728.4
12.5°	719.4	720.9	722.9	723.7	725.2	725.2	726.0	726.4	727.2	726.8	728.0
15°	713.5	715.5	717.8	719.8	721.7	722.9	724.1	724.5	725.6	724.5	724.9
17.5°	706.5	708.8	712.4	714.7	717.8	719.0	720.6	721.3	722.5	721.7	722.1
20°	696.7	699.5	703.4	706.9	708.8	711.6	713.5	714.7	715.5	714.7	715.1
22.5°	683.1	687.0	692.0	694.8	698.7	701.0	701.4	704.2	706.1	704.2	704.9
25°	667.1	671.0	674.9	680.7	684.2	687.0	689.7	690.1	692.0	691.7	691.3
27.5°	640.5	645.6	652.2	656.9	661.6	665.9	669.0	669.8	671.7	671.0	671.4
30°	604.2	609.6	615.9	623.3	630.0	634.2	638.2	640.9	642.8	641.7	641.3
32.5°	552.6	558.1	564.7	572.1	580.0	586.2	590.9	594.4	596.8	596.0	594.0
35°	493.7	495.2	499.5	505.4	512.0	518.6	522.9	526.8	529.6	530.4	530.4
37.5°	433.1	428.0	424.9	424.9	428.8	431.6	435.5	437.8	442.1	443.7	444.8
40°	374.5	362.8	351.9	343.7	338.2	337.8	337.8	339.0	342.9	348.0	352.7
42.5°	322.2	303.5	286.7	271.4	260.5	254.2	251.5	251.9	255.0	259.7	267.5
45°	280.4	257.0	235.9	217.5	202.7	192.9	188.2	187.9	190.2	195.7	204.3
47.5°	248.0	223.0	199.2	178.1	162.1	151.5	146.1	144.5	146.1	151.1	161.3
50°	221.1	195.3	170.7	148.8	131.6	120.7	115.6	113.6	115.6	119.9	130.0
52.5°	196.1	169.5	146.5	125.4	107.0	97.6	92.2	91.0	92.2	97.2	105.5
55°	167.2	144.5	121.8	100.8	84.8	75.4	71.1	69.9	71.1	75.8	84.4
57.5°	138.6	119.1	99.2	80.1	66.4	58.2	54.3	52.7	55.5	58.6	68.7
60°	112.1	96.5	79.7	62.9	51.6	44.1	41.0	40.6	41.4	45.3	52.3
62.5°	87.9	75.0	61.7	48.0	38.7	35.5	31.6	31.2	32.0	34.4	39.8
65°	63.3	55.1	44.9	35.1	27.7	23.4	21.9	22.3	23.0	24.6	29.7
67.5°	44.1	38.3	31.2	24.6	19.1	17.2	15.6	15.2	15.6	18.4	21.1
70°	29.7	26.2	21.1	18.7	13.3	10.5	10.9	9.8	11.3	11.3	13.7
72.5°	19.5	17.2	14.1	10.9	9.4	7.4	7.4	7.0	7.8	8.2	10.2
75°	10.2	7.8	7.8	5.5	3.9	1.9	3.5	3.1	2.7	3.1	3.9
77.5°	7.0	5.9	5.5	4.3	3.9	3.1	3.1	3.1	3.1	3.5	3.9
80°	4.3	4.3	3.1	2.7	2.3	1.9	2.3	2.3	2.3	2.3	2.7
82.5°	2.7	2.3	2.3	1.9	1.9	1.6	1.6	1.6	1.6	1.6	2.3
85°	2.3	1.6	1.6	1.2	1.6	2.7	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	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: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	728.8	729.2	729.2	728.8	728.8	728.0	729.5	728.4	728.8	730.3	729.2
5°	729.5	729.9	729.9	729.5	729.5	729.5	729.9	729.9	729.5	729.2	729.9
7.5°	731.1	730.7	730.7	729.9	729.9	729.2	729.9	728.8	729.5	728.8	729.9
10°	729.2	729.5	729.2	728.8	728.8	728.4	728.4	727.2	727.6	726.4	727.2
12.5°	728.0	727.6	727.6	726.8	726.0	725.2	724.9	723.7	723.7	720.9	722.1
15°	724.9	725.2	724.1	722.5	721.7	719.8	719.0	717.4	715.9	713.9	714.3
17.5°	722.1	720.9	719.4	717.8	714.7	713.1	711.6	709.2	708.4	706.1	705.3
20°	713.9	713.1	711.2	708.4	706.5	703.0	701.4	699.1	697.1	694.8	693.6
22.5°	703.4	702.6	700.2	697.5	694.4	692.8	691.3	687.0	685.0	682.7	682.3
25°	690.1	688.9	686.6	683.5	681.9	677.6	676.0	672.9	672.1	669.8	669.4
27.5°	669.8	668.2	665.5	661.6	658.9	656.1	654.6	652.2	651.4	649.1	648.7
30°	639.3	637.4	631.9	630.3	625.7	622.9	622.9	619.8	620.2	618.6	618.6
32.5°	591.3	588.2	583.9	580.7	577.6	576.1	576.1	574.9	575.7	575.7	576.4
35°	527.6	523.3	521.0	519.0	519.0	520.6	525.3	526.5	528.8	530.8	532.3
37.5°	446.0	445.6	448.4	450.7	456.5	463.2	471.4	478.4	485.1	489.7	494.4
40°	357.7	367.5	375.3	386.3	395.2	408.1	423.0	435.1	446.4	454.6	463.2
42.5°	279.2	291.7	308.1	324.2	340.2	357.7	377.3	394.1	408.9	420.2	429.2
45°	217.5	234.7	254.6	274.9	295.6	317.5	337.8	355.0	370.6	382.3	391.3
47.5°	175.4	194.1	216.8	239.0	262.4	285.5	308.1	323.0	335.9	345.2	353.4
50°	144.9	164.8	188.6	214.0	237.4	260.5	280.0	294.5	305.0	313.2	318.3
52.5°	121.1	142.2	167.5	192.9	216.4	237.4	255.0	266.0	274.6	280.4	285.1
55°	100.0	120.3	144.1	167.9	191.0	210.9	225.3	233.5	240.2	243.7	246.4
57.5°	81.6	100.4	122.2	144.1	164.0	180.4	191.8	200.0	203.1	205.8	205.4
60°	64.1	81.6	101.5	120.3	137.5	150.7	159.0	163.6	166.0	167.2	166.4
62.5°	50.4	66.4	81.6	98.0	110.5	121.8	129.7	129.7	130.8	131.2	132.4
65°	37.5	49.6	62.9	75.0	85.1	92.6	96.9	98.0	99.6	99.2	98.4
67.5°	27.7	36.7	46.5	55.5	62.5	67.2	70.3	73.0	72.6	71.9	71.5
70°	19.1	25.0	33.6	39.1	44.1	48.8	49.6	50.0	50.4	50.8	50.0
72.5°	13.3	17.6	22.3	26.9	30.1	32.0	34.0	34.4	34.4	34.4	34.0
75°	6.6	9.0	13.3	15.2	18.0	18.7	20.3	20.3	21.5	19.9	19.5
77.5°	5.9	7.0	9.4	10.9	12.1	13.3	13.7	14.8	14.4	13.7	14.1
80°	3.5	4.3	5.9	6.6	8.2	8.6	9.0	9.4	9.0	9.4	9.4
82.5°	2.7	3.1	3.9	3.9	5.1	5.1	5.5	5.5	5.9	5.9	5.9
85°	1.6	2.7	2.3	4.7	3.1	3.1	3.9	4.7	3.9	3.9	4.7
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	1.9	2.3	2.3	2.7	2.3
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: P246223

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	727.6	727.6	727.6	727.6
2.5°	728.8	729.5	728.4	728.0
5°	729.9	729.9	729.2	729.2
7.5°	729.9	729.9	728.8	728.0
10°	726.8	726.8	725.6	724.9
12.5°	720.9	720.9	720.6	719.4
15°	713.5	713.5	712.0	710.8
17.5°	703.4	704.2	702.2	702.2
20°	692.4	692.0	690.5	689.7
22.5°	681.1	680.3	679.9	677.6
25°	669.0	668.2	667.1	665.9
27.5°	648.3	647.9	646.7	645.2
30°	616.7	616.3	614.7	614.7
32.5°	575.7	575.3	573.7	574.1
35°	533.1	534.7	533.9	532.3
37.5°	497.6	498.7	499.5	498.7
40°	467.9	471.4	471.8	472.6
42.5°	436.2	440.9	442.5	443.3
45°	398.4	402.7	406.2	405.4
47.5°	359.7	362.8	365.9	363.6
50°	322.6	324.5	325.7	325.7
52.5°	287.4	287.4	287.1	287.4
55°	247.2	247.2	245.7	246.4
57.5°	205.0	205.8	204.6	202.7
60°	166.0	164.0	163.2	162.1
62.5°	129.3	129.3	126.5	130.0
65°	96.9	95.7	94.5	94.1
67.5°	70.3	69.9	68.7	68.3
70°	49.6	48.0	47.6	46.9
72.5°	33.2	33.2	32.4	32.4
75°	20.3	18.4	18.0	18.4
77.5°	14.1	13.7	13.7	13.3
80°	9.4	9.0	9.8	8.6
82.5°	5.9	6.2	5.9	6.2
85°	3.9	4.7	4.3	4.3
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)