

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: P245424

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10935 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 991.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

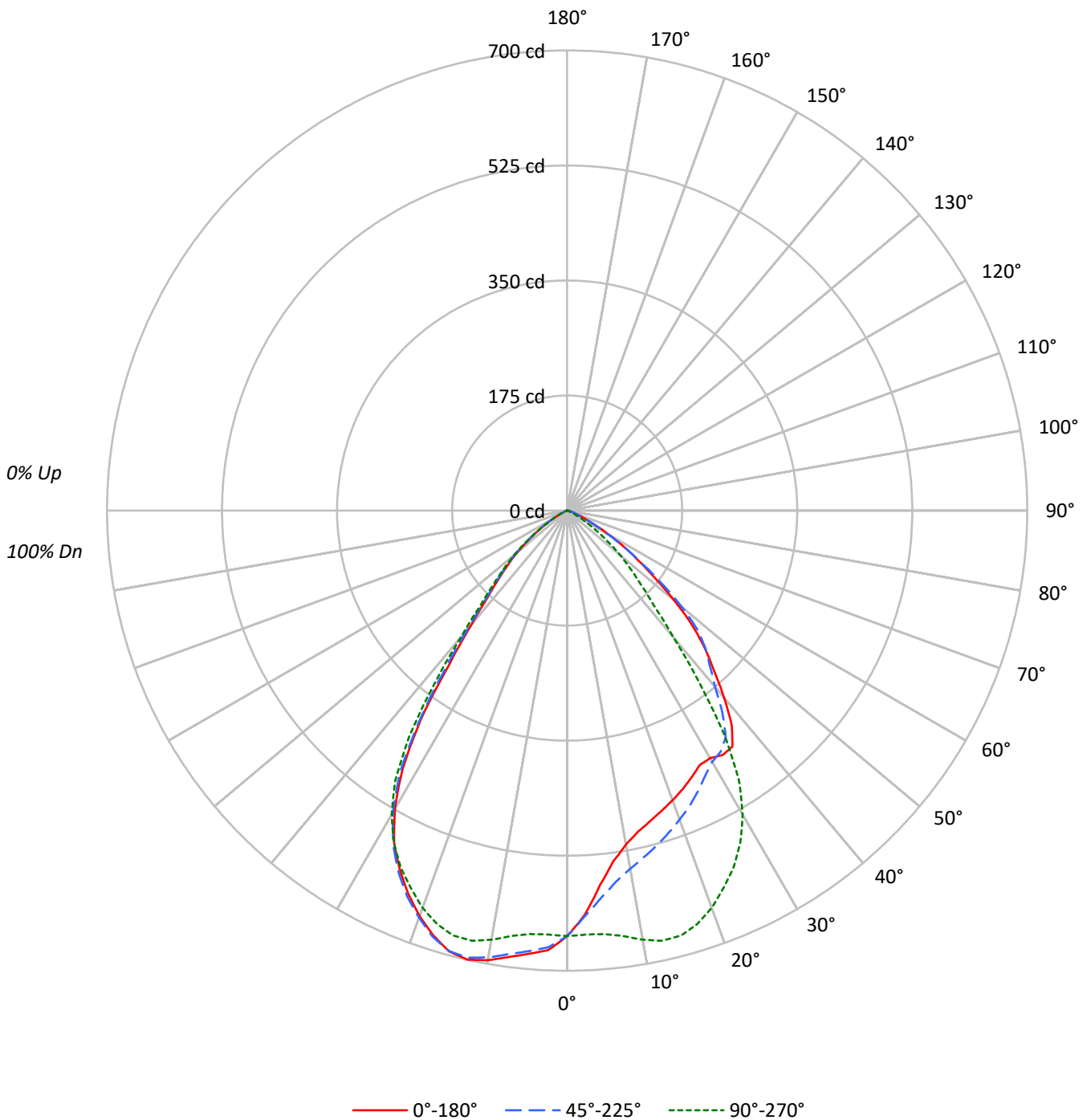
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19963	19963	19963
5°	17712	20012	20950
10°	16148	20757	21746
15°	15608	21364	22162
20°	15384	21100	21533
25°	15233	20374	20500
30°	15482	19010	18661
35°	16499	15732	14595
40°	14954	10072	9122
45°	12908	6890	6415
50°	10185	5028	4735
55°	7070	3091	2908
60°	4502	1560	1394
65°	2247	620	474
70°	1244	307	171
75°	894	226	83
80°	728	160	36
85°	778	106	0



TEST NUMBER: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	6.1
10°-20°	174.3	17.6
20°-30°	253.0	25.5
30°-40°	249.1	25.1
40°-50°	156.2	15.8
50°-60°	75.4	7.6
60°-70°	18.2	1.8
70°-80°	3.7	0.4
80°-90°	0.9	0.1
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°	487.6	49.2
0°-40°	736.7	74.3
0°-60°	968.2	97.7
0°-90°	991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	991.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	647	647	647	647	647	
5°	572	592	646	673	677	53
15°	489	527	669	694	694	138
25°	448	471	599	607	602	207
35°	438	420	418	394	388	265
45°	296	298	158	151	147	226
55°	132	136	58	57	54	121
65°	31	30	8	7	6	35
75°	8	6	2	1	1	8
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	615.4	611.5	604.2	613.0	613.0	608.1	618.0	612.0	616.8	624.3	617.6
5°	572.2	569.0	562.9	572.2	573.4	568.8	580.7	576.3	583.3	592.5	591.6
7.5°	538.0	533.9	528.3	538.0	539.9	536.8	548.2	546.2	555.4	567.3	569.3
10°	515.7	511.5	506.6	515.4	516.8	514.7	526.3	525.1	534.1	547.9	553.3
12.5°	499.9	496.4	490.9	500.3	501.8	498.9	509.8	509.3	518.6	533.1	539.9
15°	488.9	484.6	479.7	487.7	489.7	486.5	496.9	495.8	505.4	519.7	527.3
17.5°	478.5	474.6	469.5	477.0	479.0	475.6	485.8	484.1	492.3	505.9	513.7
20°	468.8	464.5	460.0	467.6	468.8	464.9	475.1	472.9	480.2	492.8	500.4
22.5°	458.8	454.3	449.6	457.1	458.2	454.3	463.7	461.1	467.9	479.3	486.3
25°	447.7	443.6	438.9	445.8	446.9	442.6	452.5	449.2	455.2	465.2	471.0
27.5°	436.6	432.7	427.5	434.6	435.1	431.0	440.0	435.6	440.6	449.7	454.7
30°	434.8	430.4	424.9	430.7	430.9	425.6	434.1	428.8	431.5	438.3	441.2
32.5°	440.7	436.3	430.7	435.5	434.9	429.2	437.3	430.9	431.7	435.3	434.6
35°	438.3	433.1	426.4	431.5	431.5	424.6	432.7	425.1	424.2	424.7	420.5
37.5°	411.3	407.2	400.9	405.9	405.3	400.1	406.4	400.1	397.2	396.0	388.3
40°	371.5	366.6	361.8	367.1	367.6	362.0	370.1	363.0	362.1	358.7	349.7
42.5°	331.2	329.5	324.9	329.3	331.7	326.9	333.7	330.3	330.8	330.0	321.5
45°	296.0	293.1	289.7	294.8	296.3	293.9	300.7	298.7	300.7	305.0	298.0
47.5°	258.0	255.1	251.4	256.9	259.6	255.1	260.9	260.3	263.3	270.6	269.9
50°	212.3	210.2	209.6	210.2	211.9	209.9	214.0	214.2	216.2	226.2	226.9
52.5°	168.1	167.5	165.2	167.4	167.4	164.1	168.2	166.4	168.4	175.2	179.6
55°	131.5	131.0	129.4	131.5	129.3	128.1	129.3	127.4	125.9	131.1	135.7
57.5°	102.4	100.7	98.8	99.7	99.5	97.0	98.3	96.1	94.9	96.8	100.9
60°	73.0	72.5	70.8	71.6	72.3	70.4	71.8	70.8	68.7	70.3	70.4
62.5°	48.5	48.8	47.8	48.0	47.5	47.1	48.0	48.5	48.0	47.3	47.5
65°	30.8	30.6	30.4	30.6	31.0	30.3	30.8	31.1	30.6	30.6	30.4
67.5°	20.4	19.9	19.4	19.7	20.1	19.6	20.1	19.9	20.1	19.9	19.4
70°	13.8	13.6	13.4	13.6	13.6	13.3	13.6	13.4	13.6	13.4	12.9
72.5°	10.0	10.0	9.9	10.0	10.0	9.7	9.9	9.5	9.7	9.5	9.2
75°	7.5	7.5	7.3	7.5	7.3	7.1	7.3	7.1	6.8	6.8	6.5
77.5°	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.1	4.9	4.8	4.8
80°	4.1	3.9	3.9	3.9	3.9	3.7	3.9	3.7	3.6	3.4	3.2
82.5°	2.9	3.1	2.9	2.9	2.9	2.7	2.9	2.7	2.7	2.6	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	1.9	1.9	1.7
87.5°	1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.0	1.0	0.9	0.9
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: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	626.5	627.3	625.5	628.3	639.6	630.6	634.3	635.5	644.0	645.5	644.5
5°	602.7	606.4	608.8	615.3	627.7	621.2	627.8	632.1	643.0	646.5	647.4
7.5°	584.0	591.8	597.6	608.1	622.7	617.8	627.8	634.8	648.1	652.7	654.9
10°	570.0	581.9	591.9	606.4	622.9	619.7	632.8	642.6	657.4	662.9	665.6
12.5°	559.5	573.9	587.4	605.7	623.6	622.1	637.9	649.1	664.8	670.2	673.4
15°	547.9	564.6	580.2	600.8	620.0	619.7	636.7	648.6	664.6	669.2	672.2
17.5°	534.1	552.0	569.2	591.4	610.5	610.8	628.0	639.7	655.4	659.1	661.2
20°	520.2	537.9	555.0	578.0	596.7	597.2	614.1	624.9	639.9	643.0	643.5
22.5°	505.4	521.9	539.0	561.8	579.9	580.2	596.9	607.1	619.8	621.4	622.7
25°	488.5	504.7	520.8	543.5	560.6	561.7	576.8	585.8	597.6	598.8	599.3
27.5°	471.0	484.3	499.8	519.1	536.5	535.8	550.1	560.3	570.9	570.2	570.0
30°	453.3	464.4	473.9	492.6	505.4	505.9	519.3	524.2	535.3	533.9	533.8
32.5°	440.9	443.8	446.3	455.9	467.9	463.7	472.9	479.0	486.7	486.1	486.3
35°	418.1	412.8	405.2	406.5	413.9	407.2	412.2	412.0	419.8	417.9	420.1
37.5°	379.2	364.2	347.2	337.5	338.8	330.5	328.8	332.9	335.6	330.3	332.2
40°	337.6	315.5	289.0	266.9	265.7	255.3	253.4	249.4	254.6	250.2	251.6
42.5°	307.0	277.8	242.9	216.0	210.2	201.6	196.5	195.8	197.3	194.3	193.4
45°	283.6	252.4	212.5	181.7	175.2	165.8	160.7	158.9	159.0	158.0	157.2
47.5°	256.0	224.7	184.2	152.7	145.4	136.6	131.5	130.3	131.0	129.6	128.6
50°	217.9	189.8	152.9	124.2	117.7	111.2	107.2	106.0	105.8	104.8	104.1
52.5°	176.9	153.6	121.6	97.6	91.9	85.6	82.7	81.1	81.3	80.3	79.3
55°	136.9	122.5	94.2	73.8	68.6	63.6	60.9	59.0	58.5	57.5	57.0
57.5°	101.9	92.2	70.6	53.2	50.2	45.4	42.7	40.5	40.1	39.6	39.5
60°	71.4	64.5	49.7	37.9	34.4	31.5	28.7	26.5	25.5	25.3	24.8
62.5°	46.3	42.0	32.7	25.3	22.6	20.6	17.9	16.3	15.6	15.0	15.1
65°	28.7	25.5	20.4	16.3	14.8	13.3	11.2	9.9	9.2	8.5	8.7
67.5°	17.9	16.0	12.9	10.5	9.5	8.3	6.8	5.8	5.3	4.8	4.4
70°	12.1	10.4	8.8	7.5	6.8	6.0	4.9	4.1	3.7	3.4	3.1
72.5°	8.5	7.7	6.5	5.6	5.1	4.4	3.7	3.2	2.9	2.6	2.2
75°	6.1	5.4	4.8	4.1	3.7	3.4	2.9	2.6	2.2	1.9	1.5
77.5°	4.4	3.9	3.4	3.1	2.9	2.4	2.0	1.9	1.7	1.4	1.0
80°	3.1	2.7	2.2	2.0	2.0	1.7	1.5	1.4	1.2	0.9	0.7
82.5°	2.0	1.9	1.7	1.5	1.4	1.2	1.2	0.9	0.7	0.5	0.3
85°	1.5	1.4	1.2	1.0	1.0	0.9	0.7	0.5	0.5	0.3	0.2
87.5°	0.9	0.9	0.7	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2
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: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	653.2	653.7	656.6	654.4	660.0	664.1	662.0	666.6	665.1	664.8	670.0
5°	657.6	658.8	662.7	660.7	666.8	671.2	669.2	674.3	672.7	672.4	677.8
7.5°	666.1	667.3	670.7	669.0	675.5	679.4	676.8	682.4	680.4	680.2	685.5
10°	676.8	678.5	681.4	679.7	685.7	689.1	686.5	692.0	690.1	689.2	695.0
12.5°	684.8	686.0	688.9	687.5	693.3	695.9	693.7	698.9	696.6	695.9	701.0
15°	683.0	684.1	686.5	685.3	690.8	693.2	690.3	696.0	693.7	692.3	696.9
17.5°	671.0	671.7	673.4	672.2	678.0	679.5	676.3	682.1	679.9	677.5	681.9
20°	653.5	653.2	654.2	653.7	658.5	659.3	657.3	661.5	659.0	657.6	660.2
22.5°	631.8	631.4	632.1	630.7	635.5	636.0	632.9	638.0	635.5	632.9	637.2
25°	607.6	605.7	605.4	605.9	609.1	609.6	606.4	610.1	606.9	604.9	609.0
27.5°	577.8	575.4	574.9	575.4	578.7	576.3	573.6	576.3	573.1	571.2	573.7
30°	541.1	537.7	536.2	535.1	538.5	537.7	531.4	534.5	529.4	526.6	528.5
32.5°	491.6	489.7	485.6	483.3	486.5	480.0	476.1	476.1	474.1	469.5	470.5
35°	422.9	420.0	416.2	414.2	414.7	406.0	399.6	400.9	394.1	392.9	393.4
37.5°	335.9	331.2	329.8	325.6	326.6	318.9	310.1	310.3	306.7	302.9	301.8
40°	252.4	251.6	250.2	246.6	248.0	239.7	236.3	236.4	234.1	231.3	232.7
42.5°	195.1	192.4	191.5	190.3	190.7	189.3	184.9	185.4	183.4	182.7	182.0
45°	158.5	155.6	153.6	154.6	154.6	153.1	151.4	152.4	151.4	150.0	150.7
47.5°	130.6	127.9	126.9	126.7	127.9	126.9	125.2	125.5	125.4	124.9	124.5
50°	104.3	103.6	102.7	102.2	102.7	102.4	100.9	101.7	102.2	100.5	101.0
52.5°	79.4	79.4	79.3	78.1	79.1	78.1	77.9	78.2	77.7	77.1	76.9
55°	58.2	57.7	56.8	56.6	57.0	56.6	56.3	56.5	56.8	55.1	55.1
57.5°	39.8	39.5	39.0	39.0	39.6	38.8	38.3	39.0	38.3	37.6	37.6
60°	25.5	25.3	24.8	24.8	24.8	24.7	24.2	24.3	24.7	23.6	23.8
62.5°	15.3	14.8	14.6	14.5	14.6	14.5	14.5	14.3	14.1	14.1	13.6
65°	8.3	8.0	7.7	7.8	7.8	7.7	7.7	7.7	7.3	7.1	7.0
67.5°	4.3	3.9	3.9	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.4
70°	2.7	2.6	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.0
72.5°	1.9	1.7	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.2	1.2
75°	1.4	1.2	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.3
80°	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
82.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P245424

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	668.2	666.8	667.6	673.9	671.2	670.4	663.2	669.5
5°	676.1	675.1	675.1	682.3	679.0	678.4	671.4	676.8
7.5°	683.6	682.6	682.8	690.1	687.5	686.5	679.5	685.0
10°	693.3	692.6	692.8	699.8	697.1	696.0	688.9	694.5
12.5°	699.1	698.1	698.1	705.6	702.5	701.0	694.2	699.6
15°	694.7	693.2	693.2	700.6	697.2	695.0	689.1	694.2
17.5°	679.5	678.0	678.0	684.5	681.9	678.7	672.6	677.3
20°	658.5	656.6	656.1	663.6	660.0	657.1	651.7	656.2
22.5°	634.6	633.8	632.3	639.7	636.5	633.5	627.7	631.2
25°	606.1	604.7	603.2	610.5	607.3	604.2	599.6	602.5
27.5°	570.5	570.7	569.8	575.6	572.4	570.7	565.1	569.8
30°	527.5	525.6	524.9	531.7	528.7	526.5	519.5	524.1
32.5°	471.3	468.6	465.1	472.7	467.4	465.6	459.6	466.2
35°	389.7	388.8	385.6	392.1	389.2	385.8	382.0	387.7
37.5°	301.2	301.9	301.6	303.3	301.6	299.4	295.3	293.3
40°	230.0	228.3	226.9	230.0	226.4	226.4	224.0	226.6
42.5°	180.3	179.6	181.3	182.0	180.0	179.6	179.3	179.1
45°	148.8	148.8	149.2	149.9	149.2	148.8	147.8	147.1
47.5°	122.6	123.3	122.6	124.9	123.7	123.3	121.3	122.1
50°	99.3	98.5	99.3	100.0	100.2	99.2	98.1	98.7
52.5°	77.1	75.7	75.4	76.4	75.7	75.7	75.0	74.8
55°	54.3	54.8	53.9	54.8	54.4	53.9	53.4	54.1
57.5°	36.7	36.9	36.6	37.1	36.2	36.4	36.2	36.1
60°	23.8	23.1	23.1	23.6	22.8	22.8	22.6	22.6
62.5°	13.6	13.4	13.4	13.3	13.1	13.1	13.1	12.8
65°	7.0	6.8	6.6	6.6	6.6	6.6	6.5	6.5
67.5°	3.4	3.2	3.2	3.4	3.2	3.2	3.2	3.2
70°	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)