

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: P244140

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244140
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 EC8B10950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1111.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

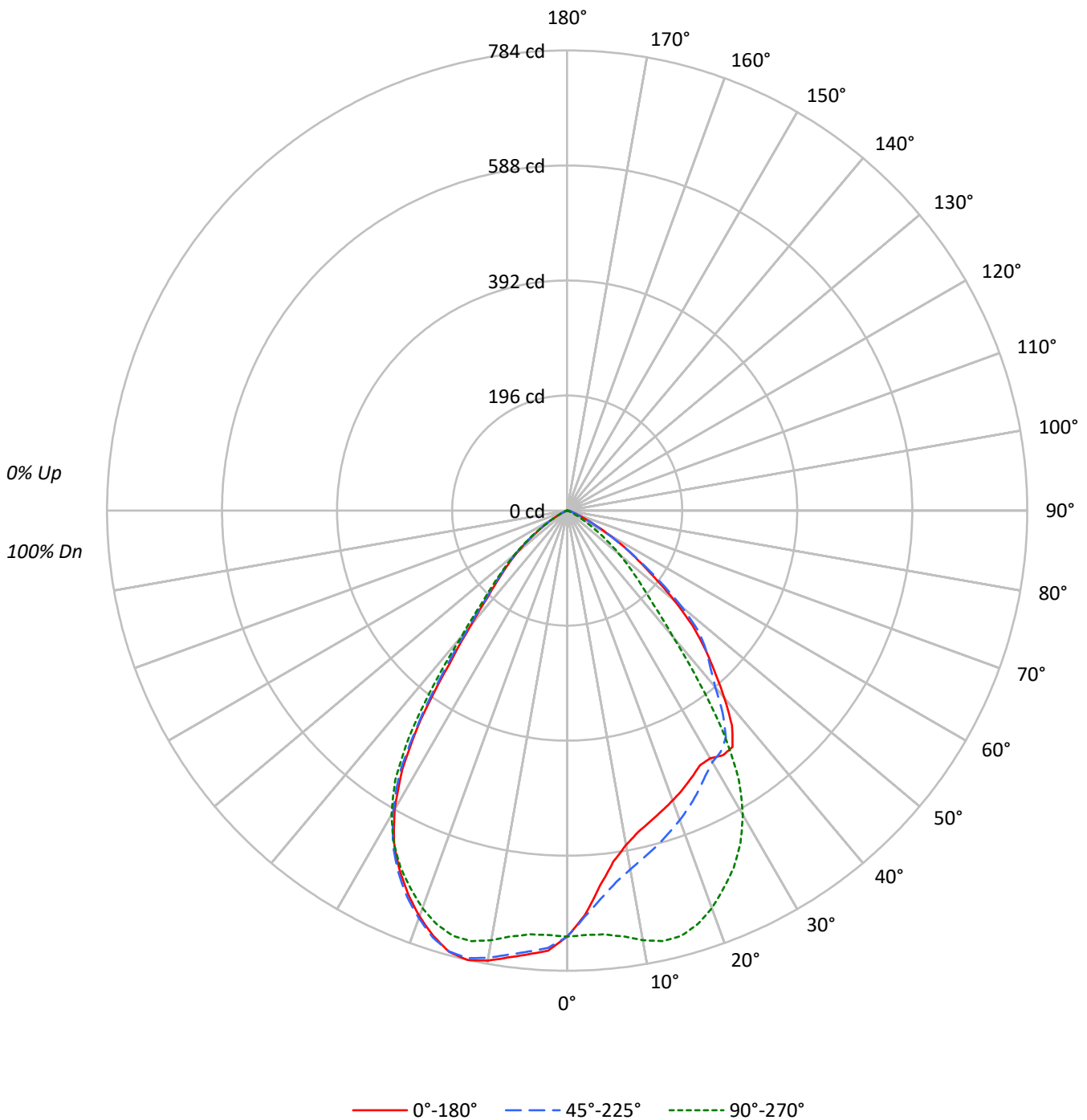
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22381	22381	22381
5°	19857	22436	23488
10°	18105	23268	24380
15°	17498	23949	24843
20°	17248	23653	24142
25°	17077	22840	22980
30°	17355	21314	20919
35°	18498	17636	16360
40°	16766	11291	10225
45°	14470	7728	7196
50°	11418	5637	5306
55°	7924	3468	3258
60°	5045	1752	1566
65°	2517	693	525
70°	1388	343	189
75°	1001	250	95
80°	817	178	36
85°	885	142	0



TEST NUMBER: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	6.1
10°-20°	195.4	17.6
20°-30°	283.6	25.5
30°-40°	279.3	25.1
40°-50°	175.1	15.8
50°-60°	84.5	7.6
60°-70°	20.4	1.8
70°-80°	4.1	0.4
80°-90°	1.0	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°	546.6	49.2
0°-40°	825.9	74.3
0°-60°	1085.5	97.7
0°-90°	1111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	726	726	726	726	726	
5°	642	663	725	754	759	59
15°	548	591	750	778	778	155
25°	502	528	671	680	675	232
35°	491	471	468	442	435	297
45°	332	334	177	170	165	254
55°	147	152	64	64	61	136
65°	34	34	10	8	7	39
75°	8	7	2	1	1	9
85°	2	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	689.9	685.6	677.4	687.3	687.3	681.7	692.8	686.1	691.5	699.9	692.4
5°	641.5	637.9	631.0	641.5	642.8	637.7	651.0	646.1	653.9	664.2	663.2
7.5°	603.2	598.6	592.3	603.2	605.3	601.8	614.6	612.3	622.6	636.0	638.3
10°	578.2	573.4	567.9	577.8	579.3	577.0	590.0	588.7	598.8	614.2	620.3
12.5°	560.5	556.5	550.4	560.8	562.6	559.3	571.5	570.9	581.4	597.6	605.3
15°	548.1	543.3	537.8	546.7	549.0	545.4	557.0	555.9	566.6	582.6	591.2
17.5°	536.4	532.0	526.3	534.7	537.0	533.2	544.6	542.7	551.9	567.1	575.9
20°	525.6	520.8	515.6	524.2	525.6	521.2	532.6	530.1	538.3	552.4	561.0
22.5°	514.3	509.4	504.0	512.4	513.7	509.4	519.8	517.0	524.6	537.4	545.2
25°	501.9	497.3	492.0	499.8	501.0	496.2	507.3	503.6	510.3	521.6	528.0
27.5°	489.5	485.1	479.2	487.2	487.8	483.2	493.3	488.4	493.9	504.2	509.7
30°	487.4	482.5	476.4	482.8	483.0	477.1	486.7	480.7	483.8	491.4	494.7
32.5°	494.1	489.1	482.8	488.2	487.6	481.1	490.3	483.0	484.0	488.0	487.2
35°	491.4	485.5	478.1	483.8	483.8	476.0	485.1	476.6	475.6	476.2	471.4
37.5°	461.1	456.5	449.5	455.0	454.4	448.5	455.6	448.5	445.3	443.9	435.4
40°	416.5	411.0	405.6	411.5	412.1	405.8	415.0	406.9	406.0	402.2	392.1
42.5°	371.3	369.4	364.2	369.2	371.9	366.5	374.1	370.3	370.9	370.0	360.4
45°	331.8	328.6	324.8	330.5	332.2	329.5	337.2	334.9	337.2	341.9	334.1
47.5°	289.3	286.0	281.9	288.0	291.0	286.0	292.5	291.8	295.2	303.4	302.6
50°	238.0	235.7	234.9	235.7	237.6	235.3	239.9	240.1	242.4	253.6	254.4
52.5°	188.4	187.8	185.2	187.6	187.6	184.0	188.6	186.5	188.8	196.4	201.4
55°	147.4	146.8	145.1	147.4	144.9	143.6	144.9	142.8	141.1	147.0	152.2
57.5°	114.8	112.9	110.8	111.7	111.6	108.7	110.2	107.7	106.4	108.5	113.1
60°	81.8	81.2	79.3	80.3	81.0	78.9	80.5	79.3	77.0	78.8	78.9
62.5°	54.3	54.7	53.6	53.8	53.2	52.8	53.8	54.3	53.8	53.0	53.2
65°	34.5	34.3	34.1	34.3	34.7	33.9	34.5	34.9	34.3	34.3	34.1
67.5°	22.9	22.3	21.7	22.1	22.5	21.9	22.5	22.3	22.5	22.3	21.7
70°	15.4	15.3	15.1	15.3	15.3	14.9	15.3	15.1	15.3	15.1	14.5
72.5°	11.3	11.3	11.1	11.3	11.3	10.9	11.1	10.7	10.9	10.7	10.3
75°	8.4	8.4	8.2	8.4	8.2	8.0	8.2	8.0	7.6	7.6	7.2
77.5°	6.1	6.1	6.1	6.1	6.1	5.9	5.9	5.7	5.5	5.3	5.3
80°	4.6	4.4	4.4	4.4	4.4	4.2	4.4	4.2	4.0	3.8	3.6
82.5°	3.2	3.4	3.2	3.2	3.2	3.1	3.2	3.1	3.1	2.9	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.3	2.1	2.1	1.9
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.1	1.1	1.0	1.0
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: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	702.3	703.3	701.2	704.4	717.0	706.9	711.1	712.4	722.0	723.7	722.6
5°	675.6	679.8	682.5	689.8	703.7	696.4	703.9	708.6	720.8	724.8	725.8
7.5°	654.7	663.4	669.9	681.7	698.1	692.6	703.9	711.7	726.6	731.7	734.2
10°	639.0	652.4	663.6	679.8	698.3	694.7	709.4	720.5	737.0	743.1	746.2
12.5°	627.2	643.4	658.5	679.1	699.1	697.4	715.1	727.7	745.2	751.3	755.0
15°	614.2	632.9	650.5	673.5	695.1	694.7	713.8	727.1	745.1	750.2	753.6
17.5°	598.8	618.8	638.1	663.1	684.4	684.8	704.1	717.2	734.8	739.0	741.2
20°	583.2	603.0	622.2	648.0	669.0	669.5	688.4	700.6	717.4	720.8	721.4
22.5°	566.6	585.1	604.3	629.9	650.1	650.5	669.2	680.6	694.9	696.6	698.1
25°	547.7	565.8	583.9	609.3	628.5	629.7	646.7	656.8	669.9	671.3	671.8
27.5°	528.0	542.9	560.3	582.0	601.5	600.7	616.7	628.2	640.0	639.2	639.0
30°	508.2	520.6	531.3	552.3	566.6	567.1	582.2	587.7	600.1	598.6	598.4
32.5°	494.3	497.5	500.4	511.1	524.6	519.8	530.1	537.0	545.6	545.0	545.2
35°	468.7	462.8	454.2	455.8	464.0	456.5	462.1	461.9	470.6	468.5	471.0
37.5°	425.1	408.3	389.2	378.3	379.9	370.5	368.6	373.2	376.2	370.3	372.4
40°	378.5	353.7	324.0	299.2	297.9	286.2	284.1	279.6	285.5	280.5	282.0
42.5°	344.2	311.4	272.3	242.2	235.7	226.0	220.3	219.5	221.2	217.8	216.8
45°	317.9	283.0	238.2	203.7	196.4	185.9	180.2	178.1	178.3	177.2	176.2
47.5°	287.0	251.9	206.5	171.2	163.0	153.1	147.4	146.1	146.8	145.3	144.2
50°	244.3	212.8	171.4	139.2	132.0	124.7	120.1	118.8	118.6	117.5	116.7
52.5°	198.3	172.2	136.3	109.5	103.0	95.9	92.7	91.0	91.2	90.0	88.9
55°	153.5	137.3	105.6	82.8	76.9	71.3	68.3	66.2	65.6	64.5	63.9
57.5°	114.2	103.4	79.1	59.7	56.3	50.9	47.9	45.4	45.0	44.4	44.2
60°	80.1	72.3	55.7	42.5	38.5	35.3	32.2	29.7	28.6	28.4	27.8
62.5°	51.9	47.1	36.6	28.4	25.4	23.1	20.0	18.3	17.5	16.8	17.0
65°	32.2	28.6	22.9	18.3	16.6	14.9	12.6	11.1	10.3	9.5	9.7
67.5°	20.0	17.9	14.5	11.8	10.7	9.3	7.6	6.5	5.9	5.3	5.0
70°	13.5	11.6	9.9	8.4	7.6	6.7	5.5	4.6	4.2	3.8	3.4
72.5°	9.5	8.6	7.2	6.3	5.7	5.0	4.2	3.6	3.2	2.9	2.5
75°	6.9	6.1	5.3	4.6	4.2	3.8	3.2	2.9	2.5	2.1	1.7
77.5°	5.0	4.4	3.8	3.4	3.2	2.7	2.3	2.1	1.9	1.5	1.1
80°	3.4	3.1	2.5	2.3	2.3	1.9	1.7	1.5	1.3	1.0	0.8
82.5°	2.3	2.1	1.9	1.7	1.5	1.3	1.3	1.0	0.8	0.6	0.4
85°	1.7	1.5	1.3	1.1	1.1	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	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: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	732.3	732.8	736.1	733.6	739.9	744.5	742.2	747.3	745.6	745.2	751.2
5°	737.2	738.6	743.0	740.7	747.5	752.5	750.2	755.9	754.2	753.8	759.9
7.5°	746.8	748.1	751.9	750.0	757.3	761.6	758.8	765.1	762.8	762.6	768.5
10°	758.8	760.7	763.9	762.0	768.7	772.5	769.7	775.8	773.7	772.7	779.2
12.5°	767.7	769.1	772.3	770.8	777.3	780.1	777.7	783.6	780.9	780.1	785.9
15°	765.6	767.0	769.7	768.3	774.4	777.1	773.8	780.3	777.7	776.1	781.3
17.5°	752.3	753.1	755.0	753.6	760.1	761.8	758.2	764.7	762.2	759.5	764.5
20°	732.7	732.3	733.4	732.8	738.2	739.1	736.9	741.6	738.8	737.2	740.1
22.5°	708.2	707.9	708.6	707.1	712.4	713.0	709.6	715.3	712.4	709.6	714.4
25°	681.2	679.1	678.7	679.3	682.9	683.5	679.8	684.0	680.4	678.1	682.7
27.5°	647.8	645.1	644.6	645.1	648.8	646.1	643.0	646.1	642.5	640.4	643.2
30°	606.6	602.8	601.1	599.9	603.7	602.8	595.7	599.2	593.4	590.4	592.5
32.5°	551.1	549.0	544.4	541.8	545.4	538.1	533.8	533.8	531.5	526.3	527.5
35°	474.1	470.8	466.6	464.3	464.9	455.2	447.9	449.5	441.8	440.5	441.1
37.5°	376.6	371.3	369.8	365.0	366.1	357.6	347.6	347.8	343.8	339.6	338.3
40°	283.0	282.0	280.5	276.5	278.0	268.7	264.9	265.1	262.4	259.3	260.9
42.5°	218.7	215.7	214.7	213.4	213.8	212.2	207.3	207.9	205.6	204.8	204.0
45°	177.7	174.5	172.2	173.3	173.3	171.6	169.7	170.9	169.7	168.2	169.0
47.5°	146.5	143.4	142.3	142.1	143.4	142.3	140.4	140.7	140.5	140.0	139.6
50°	116.9	116.1	115.2	114.6	115.2	114.8	113.1	114.0	114.6	112.7	113.3
52.5°	89.1	89.1	88.9	87.5	88.7	87.5	87.3	87.7	87.1	86.4	86.2
55°	65.2	64.6	63.7	63.5	63.9	63.5	63.1	63.3	63.7	61.8	61.8
57.5°	44.6	44.2	43.7	43.7	44.4	43.5	42.9	43.7	42.9	42.1	42.1
60°	28.6	28.4	27.8	27.8	27.8	27.7	27.1	27.3	27.7	26.5	26.7
62.5°	17.2	16.6	16.4	16.2	16.4	16.2	16.2	16.0	15.8	15.8	15.3
65°	9.3	9.0	8.6	8.8	8.8	8.6	8.6	8.6	8.2	8.0	7.8
67.5°	4.8	4.4	4.4	4.2	4.2	4.2	4.2	4.0	4.0	4.0	3.8
70°	3.1	2.9	2.7	2.7	2.7	2.5	2.5	2.5	2.5	2.5	2.3
72.5°	2.1	1.9	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.3	1.3
75°	1.5	1.3	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	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: P244140

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8
2.5°	749.1	747.5	748.5	755.5	752.5	751.5	743.5	750.6
5°	758.0	756.9	756.9	764.9	761.3	760.5	752.7	758.8
7.5°	766.4	765.3	765.5	773.7	770.8	769.7	761.8	767.9
10°	777.3	776.5	776.7	784.5	781.5	780.3	772.3	778.6
12.5°	783.8	782.6	782.6	791.0	787.6	785.9	778.2	784.3
15°	778.8	777.1	777.1	785.5	781.7	779.2	772.5	778.2
17.5°	761.8	760.1	760.1	767.4	764.5	760.9	754.0	759.4
20°	738.2	736.1	735.5	743.9	739.9	736.7	730.6	735.7
22.5°	711.5	710.5	708.8	717.2	713.6	710.2	703.7	707.7
25°	679.5	677.9	676.2	684.4	680.8	677.4	672.2	675.4
27.5°	639.6	639.8	638.8	645.3	641.7	639.8	633.5	638.8
30°	591.4	589.3	588.5	596.1	592.7	590.2	582.4	587.5
32.5°	528.4	525.4	521.4	529.9	524.0	521.9	515.3	522.7
35°	436.9	435.9	432.3	439.6	436.3	432.5	428.3	434.6
37.5°	337.7	338.5	338.1	340.0	338.1	335.6	331.1	328.8
40°	257.8	255.9	254.4	257.8	253.8	253.8	251.1	254.0
42.5°	202.1	201.4	203.3	204.0	201.8	201.4	201.0	200.8
45°	166.9	166.9	167.2	168.0	167.2	166.9	165.7	165.0
47.5°	137.5	138.3	137.5	140.0	138.6	138.3	136.0	136.9
50°	111.4	110.4	111.4	112.1	112.3	111.2	110.0	110.6
52.5°	86.4	84.9	84.5	85.6	84.9	84.9	84.1	83.9
55°	60.8	61.4	60.5	61.4	61.0	60.5	59.9	60.6
57.5°	41.2	41.4	41.0	41.6	40.6	40.8	40.6	40.4
60°	26.7	25.9	25.9	26.5	25.6	25.6	25.4	25.4
62.5°	15.3	15.1	15.1	14.9	14.7	14.7	14.7	14.3
65°	7.8	7.6	7.4	7.4	7.4	7.4	7.2	7.2
67.5°	3.8	3.6	3.6	3.8	3.6	3.6	3.6	3.6
70°	2.3	2.3	2.1	2.3	2.1	2.1	2.1	2.1
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)