

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: P245436

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245436
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 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1072.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

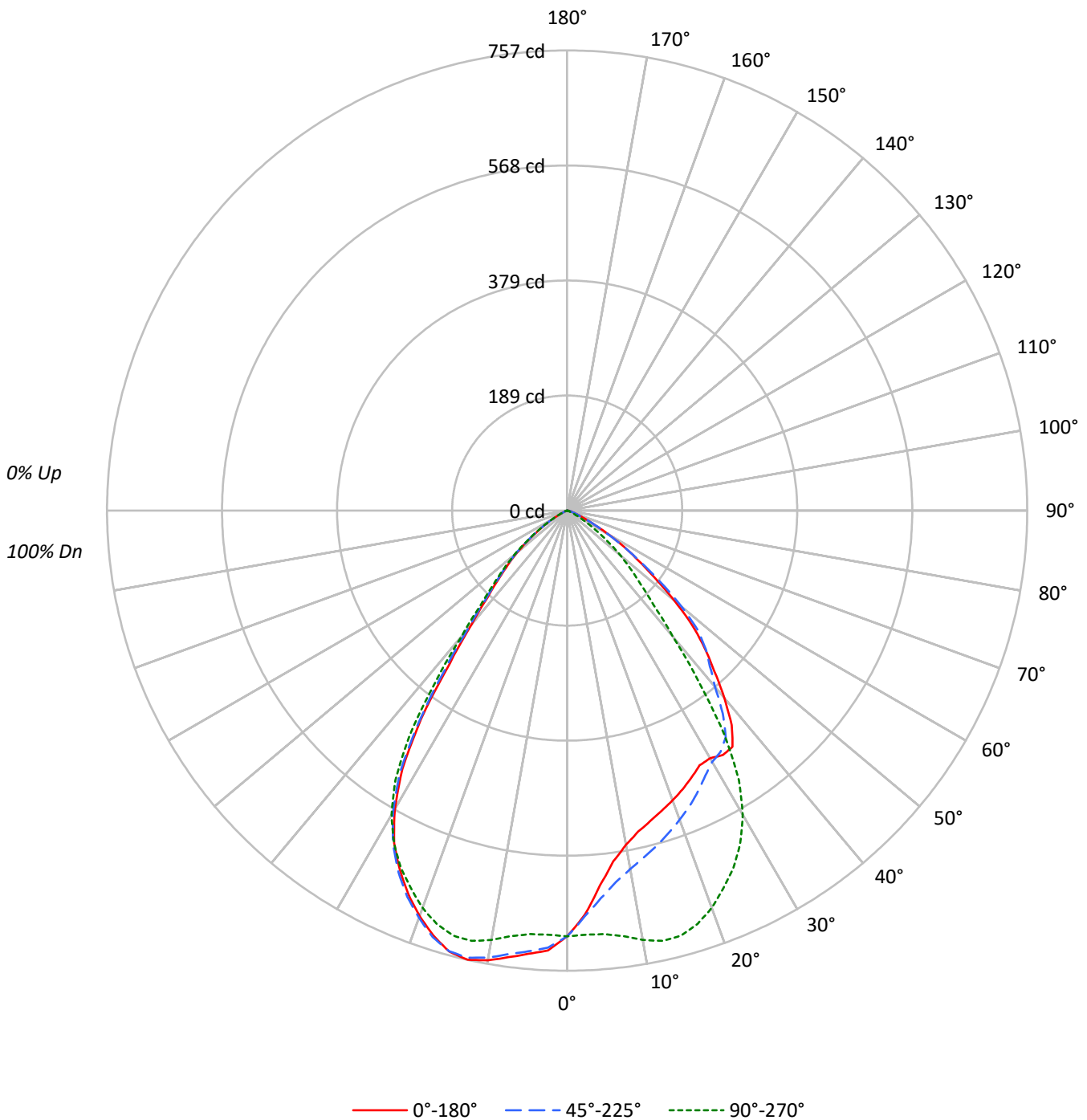
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

Luminous Intensity Polar Plot





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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°	21595	21595	21595
5°	19161	21649	22661
10°	17469	22454	23525
15°	16881	23110	23972
20°	16641	22823	23296
25°	16478	22037	22174
30°	16746	20566	20185
35°	17851	17019	15784
40°	16178	10897	9866
45°	13964	7453	6943
50°	11015	5435	5119
55°	7645	3344	3145
60°	4866	1690	1511
65°	2430	671	511
70°	1343	334	180
75°	965	238	83
80°	781	160	36
85°	849	142	0



TEST NUMBER: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	6.1
10°-20°	188.5	17.6
20°-30°	273.6	25.5
30°-40°	269.5	25.1
40°-50°	168.9	15.8
50°-60°	81.5	7.6
60°-70°	19.7	1.8
70°-80°	4.0	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°	527.4	49.2
0°-40°	796.9	74.3
0°-60°	1047.4	97.7
0°-90°	1072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	700	700	700	700	700	
5°	619	640	699	728	732	57
15°	529	570	724	750	751	150
25°	484	510	648	656	652	224
35°	474	455	452	426	419	287
45°	320	322	171	164	159	245
55°	142	147	62	62	58	131
65°	33	33	9	8	7	38
75°	8	7	2	1	1	9
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3
2.5°	665.7	661.5	653.6	663.1	663.1	657.8	668.5	662.0	667.2	675.3	668.1
5°	619.0	615.5	608.9	619.0	620.3	615.3	628.2	623.4	630.9	640.9	640.0
7.5°	582.0	577.6	571.5	582.0	584.0	580.7	593.0	590.8	600.8	613.7	615.9
10°	557.9	553.3	548.0	557.5	559.0	556.8	569.3	568.0	577.8	592.7	598.6
12.5°	540.8	536.9	531.0	541.2	542.8	539.7	551.5	550.9	561.0	576.7	584.0
15°	528.8	524.2	518.9	527.5	529.7	526.2	537.5	536.4	546.7	562.1	570.4
17.5°	517.6	513.4	507.8	515.9	518.2	514.5	525.5	523.7	532.5	547.2	555.7
20°	507.1	502.5	497.5	505.8	507.1	502.9	513.9	511.5	519.4	533.1	541.3
22.5°	496.3	491.5	486.3	494.4	495.7	491.5	501.6	498.8	506.2	518.5	526.1
25°	484.3	479.9	474.7	482.3	483.4	478.8	489.4	486.0	492.4	503.2	509.5
27.5°	472.3	468.1	462.4	470.1	470.7	466.3	476.0	471.2	476.6	486.5	491.8
30°	470.3	465.5	459.6	465.9	466.1	460.4	469.6	463.9	466.8	474.2	477.3
32.5°	476.8	472.0	465.9	471.0	470.5	464.2	473.1	466.1	467.0	470.9	470.1
35°	474.2	468.5	461.3	466.8	466.8	459.3	468.1	459.8	458.9	459.5	454.9
37.5°	444.9	440.5	433.7	439.0	438.5	432.8	439.6	432.8	429.6	428.4	420.1
40°	401.9	396.5	391.4	397.1	397.6	391.6	400.4	392.7	391.7	388.1	378.3
42.5°	358.3	356.4	351.4	356.2	358.8	353.7	361.0	357.3	357.9	357.0	347.8
45°	320.2	317.0	313.4	318.9	320.5	318.0	325.3	323.1	325.3	329.9	322.4
47.5°	279.1	276.0	272.0	277.8	280.8	276.0	282.3	281.5	284.8	292.7	292.0
50°	229.6	227.4	226.7	227.4	229.3	227.1	231.5	231.7	233.9	244.7	245.5
52.5°	181.8	181.2	178.7	181.1	181.1	177.6	182.0	180.0	182.2	189.5	194.3
55°	142.2	141.7	140.0	142.2	139.8	138.6	139.8	137.8	136.2	141.9	146.8
57.5°	110.8	108.9	106.9	107.8	107.6	104.9	106.4	104.0	102.7	104.7	109.1
60°	78.9	78.4	76.5	77.5	78.2	76.2	77.6	76.5	74.3	76.0	76.2
62.5°	52.4	52.8	51.7	51.9	51.3	51.0	51.9	52.4	51.9	51.2	51.3
65°	33.3	33.1	32.9	33.1	33.5	32.8	33.3	33.7	33.1	33.1	32.9
67.5°	22.1	21.5	21.0	21.3	21.7	21.2	21.7	21.5	21.7	21.5	21.0
70°	14.9	14.7	14.5	14.7	14.7	14.4	14.7	14.5	14.7	14.5	14.0
72.5°	10.9	10.9	10.7	10.9	10.9	10.5	10.7	10.3	10.5	10.3	9.9
75°	8.1	8.1	7.9	8.1	7.9	7.7	7.9	7.7	7.4	7.4	7.0
77.5°	5.9	5.9	5.9	5.9	5.9	5.7	5.7	5.5	5.3	5.2	5.2
80°	4.4	4.2	4.2	4.2	4.2	4.0	4.2	4.0	3.9	3.7	3.5
82.5°	3.1	3.3	3.1	3.1	3.1	2.9	3.1	2.9	2.9	2.8	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.0	2.0	1.8
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.1	1.1	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: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3
2.5°	677.7	678.6	676.6	679.7	691.9	682.1	686.1	687.4	696.6	698.3	697.2
5°	651.9	656.0	658.5	665.5	679.0	672.0	679.2	683.8	695.5	699.4	700.3
7.5°	631.7	640.1	646.4	657.8	673.6	668.3	679.2	686.7	701.1	706.0	708.4
10°	616.6	629.5	640.3	656.0	673.8	670.3	684.5	695.2	711.2	717.1	720.0
12.5°	605.2	620.8	635.4	655.2	674.6	672.9	690.0	702.2	719.1	725.0	728.5
15°	592.7	610.7	627.6	649.9	670.7	670.3	688.7	701.6	718.9	723.9	727.2
17.5°	577.8	597.1	615.7	639.8	660.4	660.8	679.3	692.0	709.0	713.0	715.2
20°	562.7	581.8	600.4	625.2	645.5	646.0	664.3	676.0	692.2	695.5	696.1
22.5°	546.7	564.5	583.1	607.8	627.3	627.6	645.7	656.7	670.5	672.2	673.6
25°	528.5	545.9	563.4	587.9	606.5	607.6	624.0	633.7	646.4	647.7	648.2
27.5°	509.5	523.9	540.6	561.6	580.3	579.6	595.1	606.1	617.5	616.8	616.6
30°	490.4	502.3	512.6	532.9	546.7	547.2	561.8	567.1	579.1	577.6	577.4
32.5°	476.9	480.1	482.8	493.1	506.2	501.6	511.5	518.2	526.4	525.9	526.1
35°	452.3	446.6	438.3	439.8	447.7	440.5	445.8	445.7	454.1	452.1	454.5
37.5°	410.1	394.0	375.6	365.1	366.5	357.5	355.7	360.1	363.0	357.3	359.4
40°	365.2	341.3	312.6	288.7	287.4	276.2	274.2	269.7	275.5	270.7	272.1
42.5°	332.1	300.5	262.8	233.7	227.4	218.0	212.5	211.8	213.4	210.1	209.2
45°	306.7	273.1	229.8	196.5	189.5	179.4	173.9	171.9	172.0	170.9	170.0
47.5°	276.9	243.1	199.3	165.2	157.3	147.8	142.2	140.9	141.7	140.2	139.1
50°	235.7	205.3	165.4	134.3	127.3	120.3	115.9	114.6	114.4	113.3	112.6
52.5°	191.4	166.2	131.6	105.6	99.4	92.6	89.4	87.8	88.0	86.8	85.7
55°	148.1	132.5	101.9	79.9	74.2	68.8	65.9	63.8	63.3	62.2	61.6
57.5°	110.2	99.7	76.4	57.6	54.3	49.1	46.2	43.8	43.4	42.9	42.7
60°	77.3	69.7	53.7	41.0	37.2	34.0	31.1	28.7	27.6	27.4	26.9
62.5°	50.0	45.4	35.3	27.4	24.5	22.3	19.3	17.7	16.9	16.2	16.4
65°	31.1	27.6	22.1	17.7	16.0	14.4	12.1	10.7	9.9	9.2	9.4
67.5°	19.3	17.3	14.0	11.4	10.3	9.0	7.4	6.3	5.7	5.2	4.8
70°	13.1	11.2	9.6	8.1	7.4	6.4	5.3	4.4	4.0	3.7	3.3
72.5°	9.2	8.3	7.0	6.1	5.5	4.8	4.0	3.5	3.1	2.8	2.4
75°	6.6	5.9	5.2	4.4	4.0	3.7	3.1	2.8	2.4	2.0	1.7
77.5°	4.8	4.2	3.7	3.3	3.1	2.6	2.2	2.0	1.8	1.5	1.1
80°	3.3	2.9	2.4	2.2	2.2	1.8	1.7	1.5	1.3	0.9	0.7
82.5°	2.2	2.0	1.8	1.7	1.5	1.3	1.3	0.9	0.7	0.6	0.4
85°	1.7	1.5	1.3	1.1	1.1	0.9	0.7	0.6	0.6	0.4	0.2
87.5°	0.9	0.9	0.7	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: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3
2.5°	706.6	707.1	710.3	707.9	713.9	718.3	716.1	721.1	719.5	719.1	724.8
5°	711.4	712.6	716.9	714.7	721.3	726.1	723.9	729.4	727.7	727.4	733.3
7.5°	720.6	721.8	725.5	723.7	730.7	734.9	732.1	738.2	736.0	735.8	741.5
10°	732.1	734.0	737.1	735.3	741.7	745.4	742.6	748.5	746.5	745.6	751.8
12.5°	740.8	742.1	745.2	743.7	750.0	752.8	750.4	756.1	753.5	752.8	758.3
15°	738.8	740.1	742.6	741.3	747.2	749.8	746.7	752.9	750.4	748.9	753.9
17.5°	725.9	726.6	728.5	727.2	733.4	735.1	731.6	737.9	735.5	732.9	737.7
20°	706.9	706.6	707.7	707.1	712.3	713.2	711.0	715.6	712.8	711.4	714.1
22.5°	683.4	683.0	683.8	682.3	687.4	688.0	684.7	690.2	687.4	684.7	689.3
25°	657.3	655.2	654.9	655.4	658.9	659.5	656.0	660.0	656.5	654.3	658.7
27.5°	625.1	622.5	621.9	622.5	626.0	623.4	620.5	623.4	619.9	617.9	620.6
30°	585.3	581.6	580.0	578.9	582.6	581.6	574.8	578.1	572.6	569.7	571.7
32.5°	531.8	529.7	525.3	522.8	526.2	519.3	515.0	515.0	512.8	507.8	509.0
35°	457.4	454.3	450.3	448.0	448.6	439.2	432.2	433.7	426.3	425.0	425.6
37.5°	363.4	358.3	356.8	352.2	353.3	345.0	335.4	335.6	331.8	327.7	326.4
40°	273.1	272.1	270.7	266.8	268.3	259.3	255.6	255.8	253.2	250.2	251.7
42.5°	211.1	208.1	207.2	205.9	206.3	204.8	200.0	200.6	198.4	197.6	196.9
45°	171.5	168.4	166.2	167.3	167.3	165.6	163.8	164.9	163.8	162.3	163.0
47.5°	141.3	138.4	137.3	137.1	138.4	137.3	135.4	135.8	135.6	135.1	134.7
50°	112.8	112.1	111.1	110.6	111.1	110.8	109.1	110.0	110.6	108.7	109.3
52.5°	85.9	85.9	85.7	84.5	85.6	84.5	84.3	84.6	84.1	83.4	83.2
55°	62.9	62.4	61.5	61.3	61.6	61.3	60.9	61.1	61.5	59.6	59.6
57.5°	43.1	42.7	42.1	42.1	42.9	42.0	41.4	42.1	41.4	40.7	40.7
60°	27.6	27.4	26.9	26.9	26.9	26.7	26.1	26.3	26.7	25.6	25.8
62.5°	16.6	16.0	15.8	15.6	15.8	15.6	15.6	15.5	15.3	15.3	14.7
65°	9.0	8.6	8.3	8.5	8.5	8.3	8.3	8.3	7.9	7.7	7.5
67.5°	4.6	4.2	4.2	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.7
70°	2.9	2.8	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.2
72.5°	2.0	1.8	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	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.6	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: P245436

CATALOG NUMBER: LSR8B10D010 EC8B10950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	700.3	700.3	700.3	700.3	700.3	700.3	700.3	700.3
2.5°	722.8	721.3	722.2	729.0	726.1	725.2	717.4	724.2
5°	731.4	730.3	730.3	738.0	734.5	733.8	726.3	732.1
7.5°	739.5	738.4	738.6	746.5	743.7	742.6	735.1	741.0
10°	750.0	749.3	749.4	757.0	754.0	752.9	745.2	751.3
12.5°	756.3	755.1	755.1	763.2	759.9	758.3	750.9	756.8
15°	751.5	749.8	749.8	757.9	754.2	751.8	745.4	750.9
17.5°	735.1	733.4	733.4	740.4	737.7	734.2	727.5	732.7
20°	712.3	710.3	709.7	717.8	713.9	710.8	704.9	709.9
22.5°	686.5	685.6	683.9	692.0	688.5	685.2	679.0	682.8
25°	655.6	654.1	652.5	660.4	656.9	653.6	648.6	651.7
27.5°	617.1	617.3	616.4	622.7	619.2	617.3	611.3	616.4
30°	570.6	568.6	567.8	575.2	571.9	569.5	561.9	566.9
32.5°	509.9	506.9	503.1	511.3	505.6	503.6	497.2	504.4
35°	421.6	420.6	417.1	424.1	421.0	417.3	413.3	419.3
37.5°	325.9	326.6	326.2	328.1	326.2	323.8	319.4	317.2
40°	248.8	246.9	245.5	248.8	244.9	244.9	242.3	245.1
42.5°	195.0	194.3	196.1	196.9	194.7	194.3	193.9	193.8
45°	161.0	161.0	161.4	162.1	161.4	161.0	159.9	159.2
47.5°	132.7	133.4	132.7	135.1	133.8	133.4	131.2	132.1
50°	107.5	106.5	107.5	108.2	108.4	107.3	106.2	106.7
52.5°	83.4	81.9	81.5	82.6	81.9	81.9	81.1	81.0
55°	58.7	59.2	58.3	59.2	58.9	58.3	57.8	58.5
57.5°	39.7	39.9	39.6	40.1	39.2	39.4	39.2	39.0
60°	25.8	25.0	25.0	25.6	24.7	24.7	24.5	24.5
62.5°	14.7	14.5	14.5	14.4	14.2	14.2	14.2	13.8
65°	7.5	7.4	7.2	7.2	7.2	7.2	7.0	7.0
67.5°	3.7	3.5	3.5	3.7	3.5	3.5	3.5	3.5
70°	2.2	2.2	2.0	2.2	2.0	2.0	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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

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