

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: P244134

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244134
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 EC8B10940 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1073.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

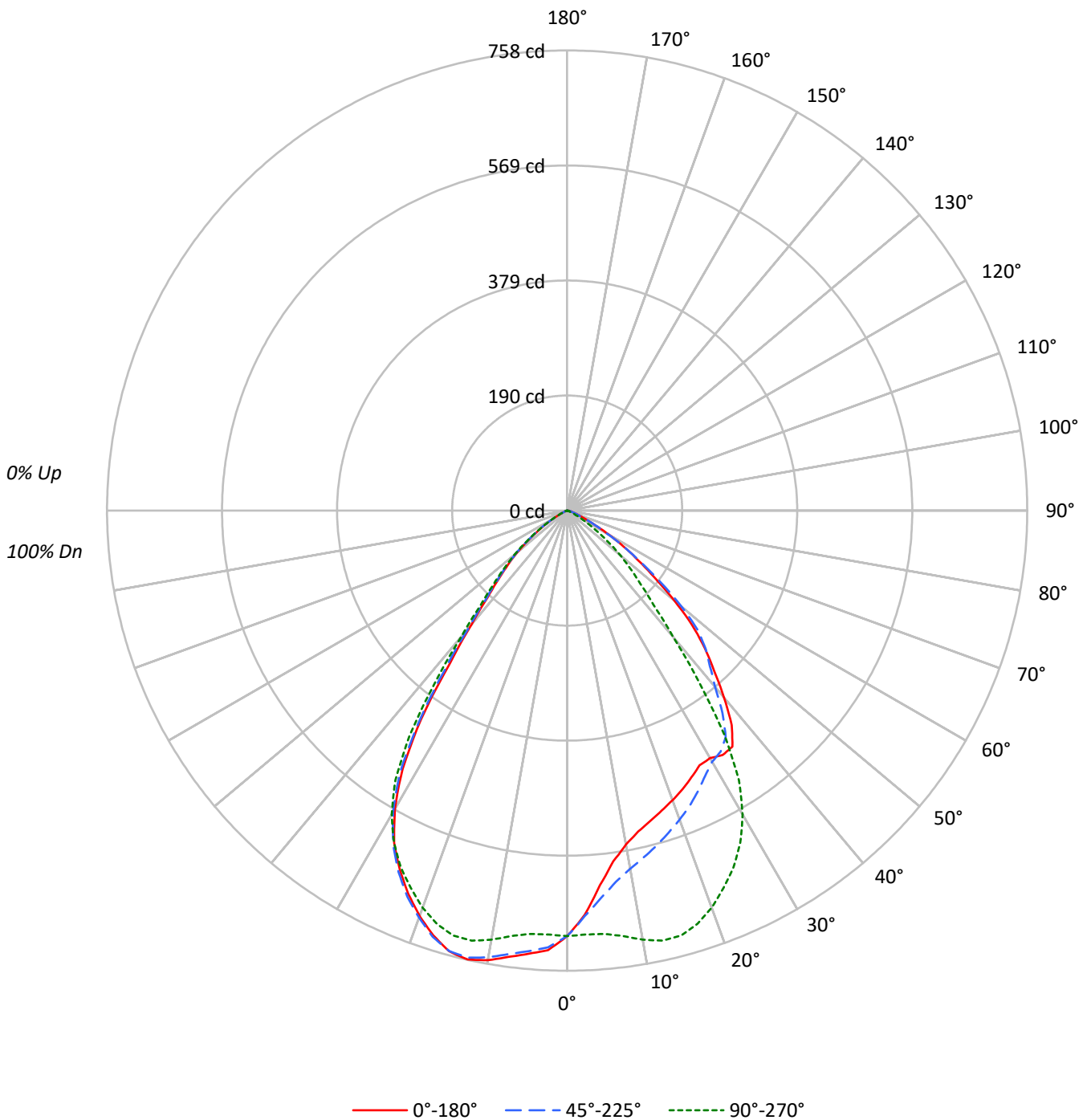
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSW0LI

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°	21616	21616	21616
5°	19179	21668	22683
10°	17485	22473	23547
15°	16897	23129	23994
20°	16657	22846	23315
25°	16491	22058	22194
30°	16764	20584	20203
35°	17866	17034	15799
40°	16190	10905	9874
45°	13977	7462	6947
50°	11029	5445	5123
55°	7656	3349	3150
60°	4872	1690	1511
65°	2430	671	511
70°	1343	334	180
75°	965	238	83
80°	781	160	36
85°	849	142	0



TEST NUMBER: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	6.1
10°-20°	188.7	17.6
20°-30°	273.9	25.5
30°-40°	269.7	25.1
40°-50°	169.1	15.8
50°-60°	81.6	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°	527.9	49.2
0°-40°	797.7	74.3
0°-60°	1048.3	97.7
0°-90°	1073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	701	701	701	701	701	
5°	620	641	700	728	733	57
15°	529	571	724	751	752	150
25°	485	510	648	657	652	224
35°	475	455	452	427	420	287
45°	320	323	171	164	159	245
55°	142	147	62	62	59	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: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	666.3	662.1	654.2	663.8	663.8	658.4	669.1	662.7	667.8	675.9	668.7
5°	619.6	616.1	609.4	619.6	620.9	615.9	628.8	624.0	631.5	641.5	640.6
7.5°	582.5	578.1	572.0	582.5	584.6	581.3	593.6	591.4	601.3	614.2	616.4
10°	558.4	553.8	548.5	558.0	559.5	557.3	569.8	568.5	578.3	593.2	599.1
12.5°	541.3	537.4	531.5	541.7	543.3	540.2	552.0	551.4	561.5	577.2	584.6
15°	529.3	524.7	519.4	528.0	530.2	526.7	538.0	536.9	547.2	562.7	570.9
17.5°	518.1	513.8	508.3	516.4	518.6	515.0	526.0	524.2	533.0	547.7	556.2
20°	507.6	503.0	498.0	506.3	507.6	503.3	514.4	512.0	519.9	533.6	541.8
22.5°	496.7	491.9	486.8	494.9	496.2	491.9	502.1	499.3	506.7	519.0	526.6
25°	484.7	480.3	475.2	482.7	483.8	479.2	489.9	486.4	492.9	503.7	510.0
27.5°	472.8	468.5	462.8	470.6	471.1	466.7	476.5	471.7	477.0	487.0	492.3
30°	470.8	466.0	460.1	466.3	466.5	460.8	470.0	464.3	467.3	474.6	477.7
32.5°	477.2	472.4	466.3	471.5	470.9	464.7	473.5	466.5	467.4	471.3	470.6
35°	474.6	468.9	461.7	467.3	467.3	459.7	468.5	460.3	459.3	459.9	455.3
37.5°	445.3	440.9	434.1	439.4	438.9	433.2	440.0	433.2	430.0	428.8	420.5
40°	402.2	396.9	391.7	397.4	398.0	391.9	400.8	393.0	392.1	388.4	378.7
42.5°	358.6	356.7	351.8	356.6	359.1	354.0	361.4	357.7	358.2	357.3	348.1
45°	320.5	317.3	313.6	319.2	320.8	318.3	325.6	323.4	325.6	330.2	322.7
47.5°	279.4	276.3	272.2	278.1	281.1	276.3	282.5	281.8	285.1	293.0	292.3
50°	229.9	227.6	226.9	227.6	229.5	227.3	231.7	231.9	234.1	245.0	245.7
52.5°	182.0	181.4	178.8	181.2	181.2	177.7	182.1	180.1	182.3	189.7	194.5
55°	142.4	141.8	140.2	142.4	140.0	138.7	140.0	137.9	136.3	142.0	147.0
57.5°	110.9	109.0	107.0	107.9	107.7	105.0	106.5	104.1	102.8	104.8	109.2
60°	79.0	78.5	76.6	77.5	78.3	76.2	77.7	76.6	74.4	76.1	76.2
62.5°	52.5	52.9	51.8	51.9	51.4	51.0	51.9	52.5	51.9	51.2	51.4
65°	33.3	33.2	33.0	33.2	33.5	32.8	33.3	33.7	33.2	33.2	33.0
67.5°	22.1	21.5	21.0	21.4	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	4.1	4.2	4.1	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: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	678.3	679.2	677.2	680.3	692.5	682.7	686.8	688.1	697.3	698.9	697.8
5°	652.5	656.6	659.2	666.2	679.6	672.6	679.8	684.4	696.2	700.0	701.0
7.5°	632.3	640.7	647.0	658.4	674.3	668.9	679.8	687.3	701.7	706.7	709.1
10°	617.2	630.1	640.9	656.6	674.4	670.9	685.1	695.8	711.8	717.7	720.7
12.5°	605.8	621.4	636.0	655.8	675.2	673.5	690.7	702.8	719.8	725.6	729.1
15°	593.2	611.3	628.2	650.5	671.3	670.9	689.4	702.3	719.6	724.5	727.9
17.5°	578.3	597.6	616.2	640.4	661.0	661.4	680.0	692.7	709.6	713.7	715.9
20°	563.2	582.4	601.0	625.8	646.1	646.6	664.9	676.7	692.9	696.2	696.7
22.5°	547.2	565.0	583.6	608.3	627.9	628.2	646.3	657.3	671.1	672.8	674.3
25°	528.9	546.4	563.9	588.4	607.0	608.1	624.5	634.3	647.0	648.3	648.8
27.5°	510.0	524.3	541.1	562.1	580.9	580.2	595.6	606.7	618.1	617.4	617.2
30°	490.8	502.8	513.1	533.4	547.2	547.7	562.3	567.6	579.6	578.1	577.9
32.5°	477.4	480.5	483.3	493.6	506.7	502.1	512.0	518.6	526.9	526.4	526.6
35°	452.7	447.0	438.7	440.2	448.1	440.9	446.3	446.1	454.5	452.5	454.9
37.5°	410.5	394.3	375.9	365.4	366.9	357.9	356.0	360.4	363.4	357.7	359.7
40°	365.6	341.6	312.9	289.0	287.7	276.4	274.4	270.0	275.7	270.9	272.4
42.5°	332.4	300.8	263.0	233.9	227.6	218.2	212.7	212.0	213.6	210.3	209.4
45°	307.0	273.3	230.0	196.7	189.7	179.6	174.0	172.0	172.2	171.1	170.2
47.5°	277.2	243.3	199.5	165.4	157.5	147.9	142.4	141.1	141.8	140.3	139.2
50°	235.9	205.5	165.6	134.4	127.4	120.5	116.0	114.7	114.6	113.5	112.7
52.5°	191.5	166.3	131.7	105.7	99.5	92.6	89.5	87.9	88.0	86.9	85.8
55°	148.3	132.6	102.0	79.9	74.2	68.9	65.9	63.9	63.4	62.3	61.7
57.5°	110.3	99.8	76.4	57.6	54.3	49.2	46.2	43.8	43.5	42.9	42.7
60°	77.4	69.8	53.8	41.1	37.2	34.1	31.1	28.7	27.6	27.4	26.9
62.5°	50.1	45.5	35.4	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	12.2	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	4.1	3.7	3.3
72.5°	9.2	8.3	7.0	6.1	5.5	4.8	4.1	3.5	3.1	2.8	2.4
75°	6.6	5.9	5.2	4.4	4.1	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: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	707.2	707.8	710.9	708.5	714.6	719.0	716.8	721.8	720.1	719.8	725.5
5°	712.0	713.3	717.5	715.3	722.0	726.8	724.5	730.1	728.4	728.0	733.9
7.5°	721.2	722.5	726.2	724.4	731.4	735.6	732.8	738.9	736.7	736.5	742.2
10°	732.8	734.7	737.8	736.0	742.4	746.1	743.3	749.2	747.2	746.3	752.5
12.5°	741.5	742.8	745.9	744.4	750.7	753.5	751.1	756.8	754.2	753.5	759.0
15°	739.5	740.8	743.3	742.0	747.9	750.5	747.4	753.6	751.1	749.6	754.6
17.5°	726.6	727.3	729.1	727.9	734.1	735.8	732.3	738.5	736.1	733.6	738.4
20°	707.6	707.2	708.3	707.8	712.9	713.9	711.7	716.3	713.5	712.0	714.8
22.5°	684.0	683.7	684.4	682.9	688.1	688.6	685.3	690.8	688.1	685.3	689.9
25°	657.9	655.8	655.5	656.0	659.5	660.1	656.6	660.6	657.1	654.9	659.3
27.5°	625.6	623.1	622.5	623.1	626.6	624.0	621.0	624.0	620.5	618.5	621.2
30°	585.9	582.2	580.5	579.4	583.1	582.2	575.4	578.7	573.2	570.2	572.2
32.5°	532.3	530.2	525.8	523.2	526.7	519.7	515.5	515.5	513.3	508.3	509.4
35°	457.9	454.7	450.7	448.5	449.0	439.6	432.6	434.1	426.7	425.4	426.0
37.5°	363.7	358.6	357.1	352.5	353.6	345.3	335.8	335.9	332.1	328.0	326.7
40°	273.3	272.4	270.9	267.1	268.5	259.5	255.8	256.0	253.4	250.5	252.0
42.5°	211.2	208.3	207.4	206.1	206.5	205.0	200.2	200.8	198.5	197.8	197.1
45°	171.7	168.5	166.3	167.4	167.4	165.8	163.9	165.0	163.9	162.4	163.2
47.5°	141.4	138.5	137.4	137.2	138.5	137.4	135.6	135.9	135.7	135.2	134.8
50°	112.9	112.2	111.2	110.7	111.2	110.9	109.2	110.1	110.7	108.8	109.4
52.5°	86.0	86.0	85.8	84.5	85.6	84.5	84.4	84.7	84.2	83.4	83.2
55°	63.0	62.4	61.5	61.3	61.7	61.3	61.0	61.1	61.5	59.7	59.7
57.5°	43.1	42.7	42.2	42.2	42.9	42.0	41.4	42.2	41.4	40.7	40.7
60°	27.6	27.4	26.9	26.9	26.9	26.7	26.2	26.3	26.7	25.6	25.8
62.5°	16.6	16.0	15.8	15.7	15.8	15.7	15.7	15.5	15.3	15.3	14.7
65°	9.0	8.7	8.3	8.5	8.5	8.3	8.3	8.3	7.9	7.7	7.6
67.5°	4.6	4.2	4.2	4.1	4.1	4.1	4.1	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: P244134

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	723.4	722.0	722.9	729.7	726.8	725.8	718.1	724.9
5°	732.1	731.0	731.0	738.7	735.2	734.5	726.9	732.8
7.5°	740.2	739.1	739.3	747.2	744.4	743.3	735.8	741.7
10°	750.7	750.0	750.1	757.7	754.7	753.6	745.9	752.0
12.5°	757.0	755.9	755.9	764.0	760.6	759.0	751.6	757.5
15°	752.2	750.5	750.5	758.6	754.9	752.5	746.1	751.6
17.5°	735.8	734.1	734.1	741.1	738.4	734.9	728.2	733.4
20°	712.9	710.9	710.4	718.5	714.6	711.5	705.6	710.5
22.5°	687.2	686.2	684.6	692.7	689.2	685.9	679.6	683.5
25°	656.2	654.7	653.1	661.0	657.5	654.2	649.2	652.3
27.5°	617.7	617.9	617.0	623.2	619.7	617.9	611.8	617.0
30°	571.1	569.1	568.4	575.7	572.4	570.0	562.5	567.4
32.5°	510.3	507.4	503.5	511.8	506.1	504.1	497.6	504.8
35°	421.9	421.0	417.5	424.5	421.4	417.7	413.7	419.7
37.5°	326.2	326.9	326.5	328.4	326.5	324.1	319.7	317.5
40°	249.0	247.2	245.7	249.0	245.1	245.1	242.6	245.3
42.5°	195.2	194.5	196.3	197.1	194.9	194.5	194.1	193.9
45°	161.2	161.2	161.5	162.3	161.5	161.2	160.0	159.3
47.5°	132.8	133.5	132.8	135.2	133.9	133.5	131.3	132.2
50°	107.6	106.6	107.6	108.3	108.5	107.4	106.3	106.8
52.5°	83.4	82.0	81.6	82.7	82.0	82.0	81.2	81.0
55°	58.8	59.3	58.4	59.3	58.9	58.4	57.8	58.6
57.5°	39.8	40.0	39.6	40.2	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°	7.6	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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