

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: HALO

Report Number: P640206

Luminaire Tested: LCR810RD9FSE020-12W-4000K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2208047B001)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: LCR810RD9FSE020-12W-4000K  
Description: LCR 8  
Light Source: 4000K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

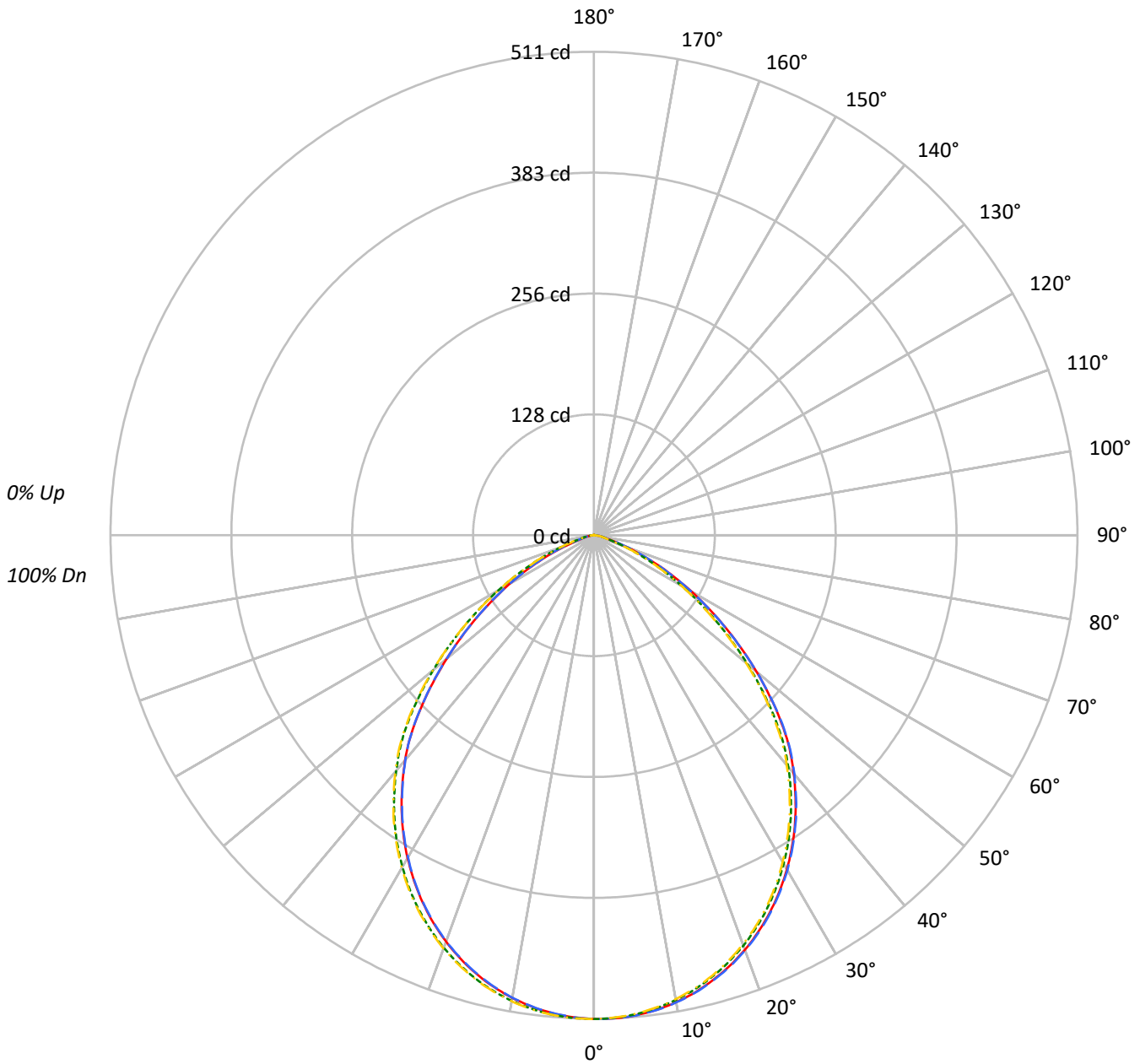
Lumens per Lamp: N/A  
Luminaire Lumens: 1055.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.26  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
Input Voltage (V): 120  
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: 24 FT



TEST NUMBER: P640206  
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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52		
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37		
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15767	15767	15767	15767
5°	15765	15728	15694	15743
10°	15687	15612	15550	15647
15°	15537	15423	15320	15477
20°	15302	15148	14997	15223
25°	14967	14770	14569	14875
30°	14520	14282	14025	14417
35°	13951	13657	13337	13827
40°	13223	12869	12495	13087
45°	12215	11696	11290	12084
50°	10760	10156	9743	10636
55°	9102	8441	8080	8984
60°	7327	6636	6346	7210
65°	5458	4765	4436	5348
70°	3399	2921	2588	3444
75°	1859	1608	1477	1918
80°	1492	1367	1190	1580
85°	1203	1061	743	1380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12254 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	4.6
10°-20°	136.2	12.9
20°-30°	199.9	19.0
30°-40°	226.9	21.5
40°-50°	208.0	19.7
50°-60°	144.0	13.6
60°-70°	69.1	6.5
70°-80°	18.1	1.7
80°-90°	3.7	0.4
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	384.4	36.4
0°-40°	611.3	57.9
0°-60°	963.3	91.3
0°-90°	1054.2	99.9
90°-120°	0.2	0.0
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	511	511	511	511	511	
5°	509	508	507	509	509	48
15°	487	483	480	485	487	137
25°	440	434	428	437	440	202
35°	371	363	354	367	371	231
45°	280	268	259	277	280	215
55°	169	157	150	167	169	152
65°	75	65	61	73	75	75
75°	16	14	12	16	16	19
85°	3	3	2	4	3	4
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3
0.5°	511.4	511.4	511.4	511.4	511.3	511.2	511.2	511.2	511.1	511.2	511.1
1°	511.3	511.3	511.4	511.4	511.2	511.1	511.1	511.0	510.8	511.0	510.9
1.5°	511.3	511.3	511.4	511.3	511.0	510.9	510.8	510.8	510.5	510.7	510.6
2°	511.2	511.2	511.2	511.2	510.8	510.7	510.5	510.5	510.2	510.4	510.2
2.5°	511.1	510.9	511.1	511.0	510.5	510.4	510.2	510.2	509.9	510.0	509.8
3°	510.8	510.7	510.9	510.7	510.1	509.9	509.8	509.8	509.4	509.6	509.3
3.5°	510.6	510.4	510.7	510.4	509.7	509.5	509.4	509.3	508.9	509.0	508.7
4°	510.2	510.0	510.4	510.1	509.2	509.0	508.9	508.8	508.3	508.5	508.1
4.5°	509.8	509.5	509.9	509.7	508.7	508.5	508.3	508.2	507.7	507.8	507.5
5°	509.3	509.0	509.5	509.2	508.1	507.9	507.6	507.6	507.0	507.2	506.8
5.5°	508.7	508.5	508.9	508.6	507.4	507.2	506.9	506.8	506.1	506.4	506.0
6°	508.1	507.9	508.3	508.0	506.7	506.4	506.1	506.1	505.4	505.6	505.1
6.5°	507.5	507.3	507.6	507.4	505.8	505.6	505.3	505.2	504.5	504.8	504.3
7°	506.8	506.5	507.0	506.6	505.0	504.7	504.4	504.3	503.6	503.9	503.3
7.5°	506.0	505.7	506.2	505.8	504.1	503.7	503.5	503.4	502.6	502.9	502.2
8°	505.2	504.7	505.4	504.9	503.2	502.7	502.5	502.4	501.5	501.8	501.2
8.5°	504.2	503.8	504.5	504.0	502.1	501.7	501.4	501.3	500.4	500.7	500.0
9°	503.2	502.8	503.5	503.0	501.1	500.5	500.3	500.2	499.1	499.5	498.8
9.5°	502.2	501.7	502.5	502.0	499.9	499.3	499.1	499.0	497.9	498.2	497.6
10°	501.0	500.6	501.4	500.9	498.6	498.1	497.9	497.7	496.6	497.0	496.3
10.5°	499.9	499.5	500.2	499.7	497.3	496.9	496.5	496.4	495.2	495.6	494.8
11°	498.7	498.2	499.0	498.5	496.0	495.5	495.1	495.0	493.8	494.2	493.4
11.5°	497.4	496.9	497.8	497.3	494.6	494.1	493.7	493.5	492.2	492.7	491.8
12°	496.1	495.5	496.4	495.9	493.2	492.7	492.3	492.1	490.6	491.1	490.2
12.5°	494.7	494.1	495.1	494.4	491.7	491.1	490.7	490.5	489.0	489.5	488.6
13°	493.2	492.6	493.8	493.0	490.1	489.5	489.1	488.9	487.3	487.8	486.9
13.5°	491.7	491.1	492.1	491.4	488.4	487.8	487.4	487.1	485.6	486.1	485.1
14°	490.1	489.5	490.5	489.8	486.7	486.1	485.7	485.4	483.7	484.3	483.3
14.5°	488.5	487.8	488.9	488.2	484.9	484.3	483.8	483.6	481.9	482.4	481.3
15°	486.7	486.0	487.2	486.5	483.1	482.4	482.0	481.7	479.9	480.5	479.5
15.5°	484.9	484.2	485.4	484.7	481.2	480.5	480.0	479.8	477.9	478.5	477.4
16°	483.1	482.4	483.6	482.9	479.3	478.6	478.1	477.8	475.9	476.4	475.3
16.5°	481.2	480.4	481.8	481.0	477.3	476.5	476.1	475.7	473.7	474.4	473.1
17°	479.3	478.5	479.8	479.0	475.2	474.5	473.9	473.5	471.5	472.1	471.0
17.5°	477.3	476.5	477.8	476.9	473.1	472.4	471.8	471.4	469.3	469.8	468.7
18°	475.2	474.3	475.8	475.0	470.8	470.2	469.6	469.1	467.0	467.5	466.4
18.5°	473.0	472.2	473.7	472.7	468.6	467.9	467.2	466.9	464.6	465.2	464.1
19°	470.8	469.9	471.4	470.5	466.3	465.5	465.0	464.4	462.1	462.8	461.6
19.5°	468.6	467.7	469.2	468.3	464.0	463.2	462.5	462.0	459.7	460.3	459.1
20°	466.3	465.3	467.0	466.0	461.6	460.8	460.1	459.6	457.0	457.8	456.6
20.5°	463.9	462.9	464.6	463.6	459.1	458.2	457.6	457.1	454.5	455.1	453.9
21°	461.5	460.5	462.1	461.1	456.6	455.6	455.1	454.5	451.8	452.4	451.2
21.5°	459.0	457.9	459.7	458.8	454.0	453.0	452.3	451.8	449.1	449.8	448.5
22°	456.4	455.4	457.2	456.1	451.3	450.4	449.8	449.1	446.3	447.0	445.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	453.8	452.8	454.6	453.5	448.6	447.6	447.0	446.3	443.5	444.3	442.8
23°	451.2	450.1	451.9	450.8	445.7	444.8	444.2	443.5	440.5	441.2	439.8
23.5°	448.4	447.3	449.2	448.1	443.0	441.9	441.3	440.6	437.6	438.3	437.0
24°	445.6	444.5	446.4	445.3	440.1	439.0	438.4	437.6	434.5	435.3	434.0
24.5°	442.8	441.6	443.6	442.6	437.1	436.0	435.4	434.7	431.3	432.1	430.8
25°	439.9	438.6	440.7	439.6	434.1	433.1	432.3	431.6	428.2	428.9	427.7
25.5°	436.9	435.6	437.8	436.6	431.0	430.0	429.2	428.5	425.1	425.8	424.5
26°	433.9	432.7	434.7	433.5	428.0	426.9	426.1	425.3	421.8	422.5	421.2
26.5°	430.9	429.6	431.8	430.6	424.7	423.7	422.9	422.1	418.4	419.2	417.9
27°	427.7	426.4	428.6	427.4	421.5	420.4	419.6	418.8	415.1	415.8	414.6
27.5°	424.5	423.2	425.4	424.2	418.2	417.1	416.3	415.5	411.8	412.4	411.0
28°	421.3	420.0	422.2	420.9	414.8	413.8	413.0	412.1	408.3	408.9	407.6
28.5°	417.9	416.6	418.9	417.7	411.6	410.3	409.5	408.6	404.8	405.4	404.2
29°	414.6	413.2	415.6	414.3	408.0	406.9	406.0	405.1	401.2	401.9	400.6
29.5°	411.2	409.8	412.2	410.8	404.6	403.4	402.5	401.7	397.5	398.3	396.7
30°	407.8	406.4	408.8	407.5	401.1	399.9	398.9	398.0	393.9	394.5	393.2
30.5°	404.3	402.8	405.3	404.0	397.4	396.3	395.3	394.3	390.2	390.8	389.4
31°	400.8	399.4	401.6	400.4	393.8	392.6	391.6	390.6	386.4	387.0	385.6
31.5°	397.1	395.7	398.1	396.9	390.1	388.9	387.9	386.9	382.5	383.2	381.8
32°	393.5	392.0	394.6	393.2	386.4	385.1	384.1	383.1	378.6	379.3	377.9
32.5°	389.7	388.3	390.7	389.4	382.6	381.3	380.3	379.3	374.7	375.4	374.0
33°	386.1	384.6	387.0	385.6	378.6	377.4	376.3	375.4	370.7	371.4	370.0
33.5°	382.3	380.7	383.3	381.9	374.9	373.4	372.4	371.3	366.7	367.4	365.8
34°	378.4	376.7	379.5	378.1	370.8	369.5	368.5	367.4	362.6	363.4	361.8
34.5°	374.6	372.9	375.4	374.0	366.8	365.5	364.4	363.4	358.4	359.1	357.7
35°	370.6	368.9	371.6	370.1	362.8	361.5	360.3	359.3	354.3	354.9	353.6
35.5°	366.5	364.8	367.7	366.2	358.6	357.3	356.2	355.1	350.1	350.8	349.4
36°	362.5	360.8	363.5	362.0	354.5	353.2	352.1	350.9	345.7	346.5	345.0
36.5°	358.5	356.7	359.4	357.8	350.3	349.1	347.9	346.7	341.5	342.2	340.8
37°	354.3	352.5	355.4	353.8	345.9	344.7	343.6	342.3	337.1	337.7	336.4
37.5°	350.0	348.3	351.0	349.5	341.8	340.4	339.3	338.1	332.8	333.5	332.1
38°	345.8	344.1	346.7	345.2	337.3	335.9	334.8	333.7	328.4	329.1	327.7
38.5°	341.6	339.8	342.4	341.0	333.0	331.7	330.4	329.4	323.9	324.6	323.3
39°	337.3	335.3	338.3	336.7	328.6	327.1	326.1	324.9	319.4	320.3	318.9
39.5°	333.0	331.0	333.7	332.1	324.0	322.7	321.7	320.5	314.9	315.7	314.3
40°	328.5	326.6	329.5	327.8	319.7	318.3	317.0	316.0	310.4	311.1	310.0
40.5°	324.0	322.1	325.0	323.4	315.1	313.9	312.7	311.4	305.9	306.7	305.4
41°	319.5	317.5	320.5	318.8	310.5	309.1	308.1	306.8	301.2	302.2	300.8
41.5°	315.1	313.1	315.9	314.2	305.6	304.3	303.1	302.1	296.3	297.5	296.3
42°	310.5	308.5	311.7	309.7	300.5	299.1	298.0	296.9	291.4	292.6	291.4
42.5°	305.9	303.8	306.8	304.7	295.4	294.0	292.9	291.8	286.2	287.6	286.3
43°	301.1	298.8	301.9	299.7	290.1	288.6	287.6	286.6	280.8	282.5	281.1
43.5°	296.1	293.6	297.0	294.7	284.7	283.2	282.2	281.3	275.3	277.0	275.8
44°	290.8	288.3	291.7	289.3	279.3	277.8	276.9	275.8	270.0	271.7	270.4
44.5°	285.5	283.0	286.3	283.9	273.7	272.3	271.3	270.3	264.4	266.2	265.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	280.1	277.6	281.0	278.4	268.2	266.7	265.8	264.9	258.9	260.6	259.4
45.5°	274.6	272.1	275.4	272.9	262.6	261.1	260.3	259.4	253.4	255.3	254.0
46°	269.2	266.5	269.9	267.5	257.0	255.6	254.7	253.7	247.8	249.7	248.3
46.5°	263.7	260.9	264.3	261.8	251.4	250.0	249.2	248.1	242.1	244.0	242.8
47°	258.0	255.3	258.7	256.3	245.5	244.2	243.4	242.5	236.5	238.5	237.1
47.5°	252.4	249.7	253.0	250.5	240.0	238.5	237.8	236.9	230.9	232.8	231.6
48°	246.8	243.9	247.4	244.9	234.3	232.9	232.2	231.2	225.4	227.4	226.0
48.5°	241.2	238.3	241.5	239.1	228.7	227.3	226.6	225.6	219.7	221.8	220.3
49°	235.4	232.7	236.0	233.5	223.1	221.6	221.0	220.1	214.2	216.2	214.8
49.5°	229.9	226.9	230.2	227.7	217.3	216.0	215.3	214.4	208.7	210.5	209.2
50°	224.3	221.3	224.6	222.1	211.7	210.4	209.6	208.9	203.1	205.1	203.6
50.5°	218.6	215.8	218.9	216.5	206.1	204.7	204.0	203.3	197.5	199.5	198.2
51°	212.8	209.9	213.4	210.8	200.4	199.1	198.4	197.7	192.2	194.1	192.7
51.5°	207.3	204.4	207.4	204.9	194.9	193.6	193.0	192.3	186.7	188.8	187.3
52°	202.0	199.0	202.0	199.4	189.3	188.1	187.4	186.9	181.6	183.4	181.8
52.5°	196.4	193.4	196.6	194.0	183.8	182.6	182.0	181.5	176.0	177.9	176.6
53°	190.8	187.7	190.8	188.3	178.4	177.2	176.6	176.0	170.8	172.9	171.3
53.5°	185.4	182.4	185.2	182.8	173.0	171.7	171.2	170.7	165.5	167.5	165.9
54°	180.0	177.0	179.9	177.5	167.6	166.4	166.0	165.4	160.5	162.3	160.8
54.5°	174.6	171.5	174.6	171.9	162.2	161.1	160.6	160.2	155.3	157.2	155.7
55°	169.3	166.4	169.0	166.4	157.0	156.0	155.4	155.0	150.3	152.1	150.5
55.5°	164.0	161.2	163.7	161.2	151.8	150.8	150.3	149.9	145.1	147.1	145.5
56°	158.8	155.8	158.5	156.1	146.6	145.5	145.1	144.8	140.4	142.1	140.5
56.5°	153.6	150.6	153.2	150.7	141.4	140.4	140.0	139.7	135.3	137.3	135.5
57°	148.5	145.6	148.0	145.5	136.5	135.4	135.0	134.8	130.5	132.4	130.7
57.5°	143.3	140.5	143.0	140.6	131.4	130.4	130.0	129.9	125.7	127.6	126.0
58°	138.3	135.5	137.7	135.3	126.6	125.5	125.3	125.0	121.0	123.0	121.2
58.5°	133.4	130.5	132.8	130.4	121.8	120.7	120.4	120.2	116.4	118.4	116.5
59°	128.5	125.7	127.9	125.7	117.0	115.9	115.6	115.6	111.9	113.7	112.0
59.5°	123.6	120.9	123.1	120.7	112.2	111.2	110.9	110.9	107.3	109.2	107.6
60°	118.8	116.1	118.2	116.0	107.6	106.6	106.3	106.4	102.9	104.8	102.9
60.5°	114.2	111.4	113.4	111.3	103.0	102.0	101.7	101.9	98.5	100.4	98.6
61°	109.5	106.9	108.8	106.6	98.5	97.6	97.3	97.5	94.4	96.2	94.4
61.5°	104.9	102.2	104.2	102.0	94.1	93.2	92.9	93.1	90.1	92.0	90.1
62°	100.6	97.8	99.7	97.5	89.9	89.0	88.7	88.8	85.7	87.7	85.9
62.5°	96.0	93.5	95.2	93.2	85.5	84.8	84.4	84.7	81.5	83.6	82.0
63°	91.8	89.1	90.9	88.9	81.5	80.7	80.3	80.7	77.3	79.6	78.0
63.5°	87.4	84.8	86.6	84.6	77.4	76.7	76.3	76.7	73.1	75.6	74.1
64°	83.3	80.7	82.4	80.3	73.4	72.7	72.3	72.7	68.9	71.5	70.2
64.5°	79.0	76.7	78.3	76.2	69.3	68.6	68.3	68.7	64.7	67.5	66.3
65°	74.8	72.6	74.3	72.3	65.3	64.6	64.3	64.7	60.8	63.9	62.5
65.5°	70.6	68.7	70.2	68.4	61.6	60.8	60.6	60.8	57.1	60.2	58.9
66°	66.5	64.8	66.4	64.5	57.9	57.2	57.0	57.1	53.4	56.4	55.5
66.5°	62.2	60.9	62.8	60.9	54.3	53.6	53.4	53.5	49.9	53.0	52.0
67°	58.3	57.1	59.0	57.2	50.9	50.2	50.0	49.9	46.5	49.5	48.7





TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	54.4	53.4	55.4	53.6	47.5	46.9	46.7	46.5	43.2	46.2	45.6
68°	50.7	49.9	52.0	50.2	44.3	43.7	43.5	43.2	40.1	43.0	42.4
68.5°	47.2	46.4	48.7	47.0	41.2	40.5	40.5	40.0	37.0	39.9	39.4
69°	44.0	43.2	45.4	43.7	38.1	37.5	37.5	37.1	34.1	36.9	36.5
69.5°	40.8	40.0	42.3	40.7	35.2	34.7	34.6	34.3	31.3	34.1	33.8
70°	37.7	37.1	39.3	37.8	32.4	32.0	32.0	31.6	28.7	31.4	31.2
70.5°	34.9	34.3	36.3	34.8	29.8	29.3	29.4	29.1	26.2	29.0	28.7
71°	32.0	32.0	33.6	32.0	27.3	26.9	27.0	26.6	23.8	26.5	26.3
71.5°	29.7	29.6	31.2	29.6	24.9	24.5	24.7	24.4	21.5	24.3	24.1
72°	27.3	27.2	28.9	27.3	22.7	22.5	22.6	22.3	19.5	22.1	22.1
72.5°	24.9	24.8	26.6	25.0	20.7	20.4	20.6	20.3	17.7	20.3	20.2
73°	22.6	22.4	24.2	22.7	18.8	18.7	18.8	18.5	16.1	18.5	18.4
73.5°	20.5	20.4	21.9	20.7	17.2	17.0	17.2	16.9	15.0	17.0	16.9
74°	18.6	18.7	19.9	18.8	15.7	15.7	15.7	15.5	13.9	15.6	15.5
74.5°	16.9	17.0	18.2	17.2	14.5	14.4	14.4	14.2	13.0	14.4	14.2
75°	15.6	15.6	16.6	15.7	13.5	13.4	13.3	13.2	12.4	13.2	13.2
75.5°	14.4	14.4	15.2	14.4	12.7	12.6	12.6	12.3	11.7	12.4	12.5
76°	13.3	13.3	14.0	13.4	12.1	12.0	12.0	11.7	11.1	11.7	11.9
76.5°	12.6	12.3	13.0	12.6	11.5	11.4	11.4	11.1	10.5	11.1	11.3
77°	11.9	11.7	12.2	12.0	10.9	10.8	10.8	10.5	10.0	10.5	10.7
77.5°	11.3	11.1	11.6	11.4	10.4	10.3	10.2	9.9	9.4	9.9	10.1
78°	10.7	10.5	11.1	10.9	9.8	9.7	9.7	9.3	8.8	9.4	9.6
78.5°	10.1	9.9	10.5	10.3	9.3	9.2	9.1	8.8	8.3	8.8	9.0
79°	9.6	9.4	10.0	9.7	8.7	8.7	8.6	8.2	7.8	8.3	8.5
79.5°	9.0	8.8	9.4	9.2	8.2	8.1	8.1	7.7	7.2	7.7	8.0
80°	8.4	8.2	8.9	8.7	7.7	7.6	7.5	7.2	6.7	7.2	7.4
80.5°	7.9	7.7	8.3	8.1	7.2	7.1	7.0	6.7	6.2	6.7	6.9
81°	7.4	7.2	7.8	7.6	6.7	6.6	6.5	6.1	5.7	6.1	6.4
81.5°	6.8	6.7	7.3	7.1	6.2	6.1	6.0	5.6	5.2	5.6	5.9
82°	6.3	6.1	6.8	6.6	5.7	5.6	5.5	5.1	4.7	5.1	5.4
82.5°	5.8	5.6	6.3	6.1	5.2	5.2	5.0	4.6	4.3	4.6	4.9
83°	5.3	5.1	5.8	5.7	4.8	4.7	4.6	4.2	3.8	4.2	4.5
83.5°	4.8	4.7	5.3	5.2	4.3	4.3	4.1	3.7	3.3	3.7	4.0
84°	4.4	4.2	4.8	4.7	3.9	3.8	3.7	3.3	2.9	3.3	3.6
84.5°	3.9	3.7	4.4	4.3	3.4	3.4	3.3	2.9	2.5	2.9	3.2
85°	3.4	3.3	3.9	3.8	3.0	3.0	2.8	2.5	2.1	2.5	2.8
85.5°	3.0	2.9	3.5	3.4	2.6	2.5	2.4	2.1	1.8	2.1	2.4
86°	2.6	2.5	3.1	3.0	2.2	2.1	2.1	1.7	1.4	1.7	2.0
86.5°	2.2	2.1	2.7	2.5	1.7	1.7	1.7	1.4	1.1	1.4	1.6
87°	1.8	1.7	2.2	2.1	1.3	1.3	1.3	1.1	0.9	1.1	1.2
87.5°	1.4	1.3	1.8	1.7	1.0	0.9	0.9	0.8	0.6	0.8	0.8
88°	1.1	1.0	1.5	1.3	0.6	0.5	0.6	0.5	0.3	0.5	0.4
88.5°	0.8	0.7	1.1	0.9	0.2	0.2	0.2	0.2	0.1	0.2	0.1
89°	0.6	0.4	0.7	0.5	0.0	0.0	0.1	0.1	0.1	0.1	0.0
89.5°	0.3	0.2	0.3	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0



TEST NUMBER: P640206  
 CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
90.5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
91°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
91.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
92°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
92.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
97°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
97.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
98°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
98.5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
99°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
99.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
100°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
100.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
101°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
101.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0
102°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0
102.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0
103°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0
103.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0
104°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
104.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
105°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
105.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
116°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
116.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
125.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
127.5°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
128°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
128.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
129°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
129.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
130°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
130.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640206  
 CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2
149.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
150°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
150.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640206  
CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	511.3	511.3	511.3	511.3	511.3	511.3
0.5°	511.2	511.3	511.3	511.3	511.3	511.4
1°	511.0	511.2	511.3	511.2	511.3	511.3
1.5°	510.8	511.1	511.2	511.1	511.2	511.3
2°	510.4	510.9	511.0	511.0	511.1	511.2
2.5°	510.1	510.7	510.8	510.8	510.9	511.1
3°	509.6	510.4	510.5	510.5	510.6	510.8
3.5°	509.1	510.0	510.1	510.2	510.2	510.6
4°	508.5	509.6	509.7	509.8	509.8	510.2
4.5°	508.0	509.1	509.3	509.3	509.3	509.8
5°	507.3	508.6	508.7	508.8	508.9	509.3
5.5°	506.5	508.0	508.1	508.2	508.2	508.7
6°	505.7	507.2	507.5	507.6	507.6	508.1
6.5°	504.8	506.5	506.8	506.9	506.9	507.5
7°	503.8	505.7	506.0	506.1	506.1	506.8
7.5°	502.8	504.8	505.2	505.3	505.3	506.0
8°	501.8	504.0	504.2	504.4	504.4	505.2
8.5°	500.7	503.0	503.3	503.4	503.4	504.2
9°	499.6	502.0	502.3	502.4	502.4	503.2
9.5°	498.4	500.8	501.2	501.3	501.4	502.2
10°	497.1	499.7	500.1	500.2	500.2	501.0
10.5°	495.7	498.5	498.9	499.0	499.0	499.9
11°	494.2	497.2	497.7	497.8	497.7	498.7
11.5°	492.8	495.8	496.4	496.4	496.5	497.4
12°	491.3	494.5	495.0	495.1	495.1	496.1
12.5°	489.8	493.0	493.6	493.6	493.6	494.7
13°	488.1	491.5	492.1	492.1	492.1	493.2
13.5°	486.4	490.0	490.5	490.6	490.5	491.7
14°	484.6	488.3	488.9	489.0	488.9	490.1
14.5°	482.7	486.6	487.2	487.3	487.2	488.5
15°	480.8	484.8	485.5	485.5	485.4	486.7
15.5°	478.8	483.0	483.7	483.7	483.6	484.9
16°	476.8	481.1	481.9	481.9	481.8	483.1
16.5°	474.8	479.2	479.9	479.9	479.9	481.2
17°	472.6	477.2	478.0	477.9	477.9	479.3
17.5°	470.4	475.1	475.9	475.8	475.8	477.3
18°	468.2	473.0	473.8	473.8	473.7	475.2
18.5°	465.9	470.8	471.6	471.6	471.5	473.0
19°	463.5	468.6	469.4	469.4	469.3	470.8
19.5°	461.0	466.3	467.2	467.2	467.0	468.6
20°	458.5	463.9	464.9	464.9	464.6	466.3
20.5°	456.0	461.5	462.5	462.5	462.1	463.9
21°	453.4	459.0	460.0	460.0	459.7	461.5
21.5°	450.7	456.5	457.5	457.4	457.2	459.0
22°	448.0	453.9	455.0	454.9	454.6	456.4

TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	445.2	451.2	452.3	452.3	452.0	453.8
23°	442.3	448.6	449.6	449.6	449.3	451.2
23.5°	439.4	445.8	446.9	446.9	446.5	448.4
24°	436.5	443.0	444.0	444.0	443.6	445.6
24.5°	433.4	440.0	441.2	441.1	440.8	442.8
25°	430.3	437.2	438.3	438.2	437.9	439.9
25.5°	427.2	434.2	435.4	435.3	434.9	436.9
26°	424.1	431.2	432.3	432.3	431.8	433.9
26.5°	420.8	428.0	429.2	429.2	428.7	430.9
27°	417.5	424.9	426.1	426.1	425.5	427.7
27.5°	414.1	421.7	422.9	422.9	422.4	424.5
28°	410.7	418.5	419.6	419.6	419.1	421.3
28.5°	407.4	415.1	416.3	416.3	415.8	417.9
29°	403.8	411.7	413.1	412.9	412.3	414.6
29.5°	400.1	408.3	409.6	409.5	409.0	411.2
30°	396.7	404.9	406.3	406.1	405.6	407.8
30.5°	393.0	401.3	402.7	402.6	402.0	404.3
31°	389.3	397.7	399.2	399.0	398.4	400.8
31.5°	385.5	394.1	395.6	395.3	394.9	397.1
32°	381.7	390.4	391.9	391.7	391.2	393.5
32.5°	377.9	386.7	388.3	388.0	387.5	389.7
33°	373.9	383.0	384.4	384.2	383.7	386.1
33.5°	370.1	379.2	380.6	380.4	379.8	382.3
34°	366.0	375.2	376.8	376.5	375.9	378.4
34.5°	361.8	371.3	372.9	372.6	372.1	374.6
35°	357.9	367.3	368.8	368.7	368.0	370.6
35.5°	353.7	363.2	364.9	364.7	364.1	366.5
36°	349.5	359.3	360.7	360.5	359.9	362.5
36.5°	345.3	355.0	356.7	356.4	355.8	358.5
37°	341.1	350.9	352.4	352.3	351.6	354.3
37.5°	336.7	346.7	348.4	348.1	347.4	350.0
38°	332.3	342.4	344.0	343.8	343.1	345.8
38.5°	328.1	338.1	339.8	339.5	338.9	341.6
39°	323.8	333.8	335.5	335.3	334.5	337.3
39.5°	319.1	329.4	331.2	330.9	330.2	333.0
40°	314.8	325.1	326.7	326.5	325.6	328.5
40.5°	310.3	320.7	322.3	322.2	321.2	324.0
41°	305.9	316.2	318.0	317.7	316.9	319.5
41.5°	301.2	311.8	313.5	313.3	312.4	315.1
42°	296.5	307.4	309.0	308.8	307.9	310.5
42.5°	291.5	302.7	304.6	304.3	303.3	305.9
43°	286.4	297.9	299.7	299.5	298.3	301.1
43.5°	281.2	292.8	294.6	294.3	293.2	296.1
44°	275.9	287.6	289.5	289.2	288.0	290.8
44.5°	270.4	282.5	284.3	284.0	282.7	285.5



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	265.0	277.1	278.8	278.7	277.2	280.1
45.5°	259.6	271.8	273.5	273.3	271.7	274.6
46°	254.1	266.4	268.1	267.8	266.2	269.2
46.5°	248.4	260.7	262.5	262.1	260.7	263.7
47°	242.9	255.1	257.0	256.6	255.1	258.0
47.5°	237.3	249.6	251.3	250.9	249.4	252.4
48°	231.8	244.1	245.8	245.3	243.8	246.8
48.5°	226.0	238.5	240.1	239.7	238.2	241.2
49°	220.5	232.8	234.5	234.0	232.6	235.4
49.5°	215.1	227.3	228.9	228.3	226.9	229.9
50°	209.3	221.7	223.2	222.6	221.2	224.3
50.5°	203.8	216.0	217.4	217.0	215.5	218.6
51°	198.3	210.6	212.0	211.4	210.0	212.8
51.5°	192.8	205.0	206.4	205.7	204.4	207.3
52°	187.2	199.4	200.8	200.2	198.8	202.0
52.5°	182.0	194.0	195.1	194.7	193.3	196.4
53°	176.5	188.5	189.7	189.1	187.8	190.8
53.5°	171.2	183.0	184.3	183.6	182.2	185.4
54°	165.9	177.6	178.8	178.1	176.9	180.0
54.5°	160.7	172.4	173.4	172.8	171.5	174.6
55°	155.4	167.1	168.1	167.5	166.2	169.3
55.5°	150.3	161.8	162.8	162.2	160.9	164.0
56°	145.1	156.5	157.6	156.9	155.7	158.8
56.5°	140.2	151.3	152.4	151.7	150.5	153.6
57°	135.2	146.2	147.2	146.5	145.4	148.5
57.5°	130.3	141.2	142.1	141.3	140.3	143.3
58°	125.5	136.3	137.1	136.5	135.4	138.3
58.5°	120.7	131.2	132.1	131.4	130.3	133.4
59°	115.9	126.3	127.4	126.5	125.6	128.5
59.5°	111.4	121.6	122.4	121.6	120.7	123.6
60°	106.8	116.9	117.7	116.9	116.0	118.8
60.5°	102.3	112.0	113.1	112.0	111.2	114.2
61°	97.8	107.5	108.4	107.5	106.7	109.5
61.5°	93.5	103.0	103.9	103.0	102.2	104.9
62°	89.2	98.5	99.4	98.6	97.8	100.6
62.5°	85.0	94.0	94.9	94.0	93.3	96.0
63°	81.1	89.8	90.6	89.8	89.1	91.8
63.5°	77.1	85.5	86.3	85.5	84.8	87.4
64°	73.1	81.3	82.1	81.3	80.7	83.3
64.5°	69.2	77.2	78.1	77.3	76.6	79.0
65°	65.2	73.3	74.0	73.3	72.6	74.8
65.5°	61.4	69.3	70.0	69.4	68.7	70.6
66°	57.9	65.3	66.1	65.4	64.9	66.5
66.5°	54.3	61.6	62.3	61.7	61.2	62.2
67°	50.9	57.9	58.6	58.1	57.5	58.3



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	47.7	54.4	55.0	54.6	53.8	54.4
68°	44.5	51.0	51.6	51.2	50.3	50.7
68.5°	41.3	47.5	48.2	47.8	46.9	47.2
69°	38.3	44.3	44.9	44.6	43.5	44.0
69.5°	35.5	41.1	41.7	41.4	40.4	40.8
70°	32.8	38.2	38.7	38.5	37.3	37.7
70.5°	30.2	35.2	35.7	35.6	34.5	34.9
71°	27.7	32.3	33.0	32.9	32.1	32.0
71.5°	25.4	29.9	30.7	30.6	29.7	29.7
72°	23.3	27.6	28.3	28.2	27.3	27.3
72.5°	21.2	25.3	26.0	25.9	24.9	24.9
73°	19.4	22.9	23.7	23.6	22.5	22.6
73.5°	17.7	20.9	21.4	21.3	20.5	20.5
74°	16.3	19.1	19.5	19.5	18.8	18.6
74.5°	15.0	17.5	17.9	17.8	17.1	16.9
75°	13.8	16.1	16.4	16.3	15.7	15.6
75.5°	13.0	14.9	15.1	15.0	14.4	14.4
76°	12.3	13.7	13.9	13.8	13.3	13.3
76.5°	11.7	12.9	13.1	12.9	12.5	12.6
77°	11.1	12.3	12.4	12.3	11.9	11.9
77.5°	10.6	11.7	11.8	11.7	11.2	11.3
78°	10.0	11.1	11.2	11.1	10.6	10.7
78.5°	9.5	10.5	10.7	10.5	10.0	10.1
79°	8.9	10.0	10.1	10.0	9.5	9.6
79.5°	8.4	9.4	9.5	9.4	8.9	9.0
80°	7.9	8.9	9.0	8.8	8.3	8.4
80.5°	7.4	8.3	8.5	8.3	7.8	7.9
81°	6.9	7.8	7.9	7.8	7.3	7.4
81.5°	6.3	7.3	7.4	7.3	6.7	6.8
82°	5.8	6.8	6.9	6.7	6.2	6.3
82.5°	5.4	6.3	6.4	6.3	5.7	5.8
83°	4.9	5.8	5.9	5.8	5.2	5.3
83.5°	4.4	5.3	5.4	5.3	4.7	4.8
84°	4.0	4.9	4.9	4.8	4.2	4.4
84.5°	3.5	4.4	4.5	4.3	3.8	3.9
85°	3.1	3.9	4.0	3.9	3.3	3.4
85.5°	2.7	3.5	3.6	3.4	2.9	3.0
86°	2.2	3.1	3.1	3.0	2.5	2.6
86.5°	1.8	2.6	2.7	2.6	2.2	2.2
87°	1.4	2.2	2.3	2.2	1.8	1.8
87.5°	1.0	1.8	1.8	1.8	1.4	1.4
88°	0.6	1.4	1.4	1.4	1.1	1.1
88.5°	0.3	1.0	1.0	1.0	0.7	0.8
89°	0.1	0.6	0.6	0.6	0.4	0.6
89.5°	0.0	0.2	0.3	0.2	0.2	0.3



TEST NUMBER: P640206  
 CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.1	0.1	0.1	0.1	0.1
90.5°	0.0	0.0	0.0	0.0	0.1	0.1
91°	0.0	0.0	0.0	0.0	0.1	0.1
91.5°	0.0	0.0	0.0	0.0	0.1	0.0
92°	0.0	0.0	0.0	0.0	0.1	0.0
92.5°	0.0	0.0	0.0	0.0	0.1	0.0
93°	0.0	0.0	0.0	0.0	0.1	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.1
97°	0.0	0.0	0.0	0.0	0.0	0.1
97.5°	0.0	0.0	0.0	0.0	0.0	0.1
98°	0.0	0.0	0.0	0.0	0.0	0.1
98.5°	0.0	0.1	0.0	0.0	0.0	0.1
99°	0.0	0.1	0.1	0.0	0.1	0.1
99.5°	0.0	0.1	0.1	0.0	0.1	0.1
100°	0.0	0.1	0.1	0.1	0.1	0.1
100.5°	0.0	0.1	0.1	0.1	0.1	0.1
101°	0.0	0.1	0.1	0.1	0.1	0.1
101.5°	0.0	0.1	0.1	0.1	0.1	0.1
102°	0.0	0.1	0.1	0.1	0.1	0.1
102.5°	0.0	0.1	0.1	0.1	0.1	0.1
103°	0.0	0.1	0.1	0.1	0.1	0.1
103.5°	0.0	0.1	0.1	0.1	0.1	0.1
104°	0.0	0.1	0.1	0.1	0.1	0.1
104.5°	0.0	0.1	0.1	0.1	0.1	0.1
105°	0.0	0.1	0.1	0.1	0.1	0.1
105.5°	0.0	0.1	0.1	0.1	0.1	0.1
106°	0.0	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640206  
 CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.1	0.1	0.1	0.1	0.1	0.1
113°	0.1	0.1	0.1	0.1	0.1	0.1
113.5°	0.1	0.1	0.1	0.1	0.1	0.1
114°	0.1	0.1	0.1	0.1	0.1	0.1
114.5°	0.1	0.1	0.1	0.1	0.1	0.1
115°	0.1	0.1	0.1	0.1	0.1	0.1
115.5°	0.1	0.1	0.1	0.1	0.1	0.1
116°	0.1	0.1	0.1	0.1	0.1	0.1
116.5°	0.1	0.1	0.1	0.1	0.1	0.1
117°	0.1	0.1	0.1	0.1	0.1	0.1
117.5°	0.1	0.1	0.1	0.1	0.1	0.1
118°	0.1	0.1	0.1	0.1	0.1	0.1
118.5°	0.1	0.1	0.1	0.1	0.1	0.1
119°	0.1	0.1	0.1	0.1	0.1	0.1
119.5°	0.1	0.1	0.1	0.1	0.1	0.1
120°	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.1	0.1	0.1	0.1	0.1	0.1
122°	0.1	0.1	0.1	0.1	0.1	0.1
122.5°	0.1	0.1	0.1	0.1	0.1	0.1
123°	0.1	0.1	0.1	0.1	0.1	0.1
123.5°	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.1	0.1	0.1	0.1	0.1	0.2
125°	0.1	0.1	0.1	0.1	0.1	0.2
125.5°	0.1	0.1	0.1	0.1	0.1	0.2
126°	0.1	0.1	0.1	0.1	0.1	0.2
126.5°	0.1	0.1	0.1	0.1	0.1	0.2
127°	0.1	0.1	0.1	0.1	0.2	0.2
127.5°	0.1	0.1	0.1	0.1	0.2	0.2
128°	0.1	0.2	0.1	0.2	0.2	0.2
128.5°	0.1	0.2	0.2	0.2	0.2	0.2
129°	0.1	0.2	0.2	0.2	0.2	0.2
129.5°	0.1	0.2	0.2	0.2	0.2	0.2
130°	0.1	0.2	0.2	0.2	0.2	0.2
130.5°	0.2	0.2	0.2	0.2	0.2	0.2
131°	0.2	0.2	0.2	0.2	0.2	0.2
131.5°	0.2	0.2	0.2	0.2	0.2	0.2
132°	0.2	0.2	0.2	0.2	0.2	0.2
132.5°	0.2	0.2	0.2	0.2	0.2	0.2
133°	0.2	0.2	0.2	0.2	0.2	0.2
133.5°	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640206  
 CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.2	0.2	0.2	0.2	0.2	0.2
141°	0.2	0.2	0.2	0.2	0.2	0.2
141.5°	0.2	0.2	0.2	0.2	0.2	0.2
142°	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.2	0.2	0.2	0.2	0.2	0.2
146°	0.2	0.2	0.2	0.2	0.2	0.2
146.5°	0.2	0.2	0.2	0.2	0.2	0.2
147°	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.2	0.2	0.2	0.2	0.2	0.2
148°	0.2	0.2	0.2	0.2	0.2	0.2
148.5°	0.2	0.2	0.2	0.2	0.2	0.2
149°	0.2	0.2	0.2	0.2	0.2	0.2
149.5°	0.2	0.2	0.2	0.2	0.2	0.2
150°	0.3	0.2	0.2	0.2	0.2	0.2
150.5°	0.3	0.2	0.2	0.2	0.2	0.2
151°	0.3	0.2	0.2	0.2	0.2	0.2
151.5°	0.3	0.2	0.2	0.2	0.2	0.2
152°	0.3	0.2	0.2	0.2	0.2	0.2
152.5°	0.3	0.2	0.2	0.2	0.2	0.2
153°	0.3	0.2	0.2	0.2	0.2	0.2
153.5°	0.3	0.2	0.2	0.2	0.2	0.2
154°	0.3	0.2	0.2	0.2	0.2	0.2
154.5°	0.3	0.2	0.2	0.2	0.2	0.2
155°	0.3	0.2	0.2	0.2	0.2	0.2
155.5°	0.3	0.2	0.2	0.2	0.2	0.2
156°	0.3	0.2	0.2	0.2	0.2	0.2
156.5°	0.3	0.2	0.2	0.2	0.2	0.2
157°	0.3	0.2	0.2	0.2	0.2	0.3



TEST NUMBER: P640206

CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.2	0.2	0.2	0.2	0.3
158°	0.3	0.2	0.2	0.2	0.2	0.3
158.5°	0.3	0.2	0.2	0.2	0.3	0.3
159°	0.3	0.2	0.2	0.2	0.3	0.3
159.5°	0.3	0.2	0.2	0.2	0.3	0.3
160°	0.3	0.2	0.2	0.2	0.3	0.3
160.5°	0.3	0.2	0.2	0.2	0.3	0.3
161°	0.3	0.2	0.2	0.2	0.3	0.3
161.5°	0.3	0.2	0.2	0.2	0.3	0.3
162°	0.3	0.2	0.2	0.3	0.3	0.3
162.5°	0.3	0.2	0.2	0.3	0.3	0.3
163°	0.3	0.2	0.2	0.3	0.3	0.3
163.5°	0.3	0.2	0.2	0.3	0.3	0.3
164°	0.3	0.2	0.2	0.3	0.3	0.3
164.5°	0.3	0.2	0.2	0.3	0.3	0.3
165°	0.3	0.2	0.2	0.3	0.3	0.3
165.5°	0.3	0.2	0.2	0.3	0.3	0.3
166°	0.3	0.2	0.2	0.3	0.3	0.3
166.5°	0.3	0.2	0.3	0.3	0.3	0.3
167°	0.3	0.2	0.3	0.3	0.3	0.3
167.5°	0.3	0.2	0.3	0.3	0.3	0.3
168°	0.3	0.2	0.3	0.3	0.3	0.3
168.5°	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.3	0.3	0.3	0.3	0.3	0.3
174°	0.3	0.3	0.3	0.3	0.3	0.3
174.5°	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.3	0.3	0.3	0.3	0.3	0.3
175.5°	0.3	0.3	0.3	0.3	0.3	0.3
176°	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.3	0.3	0.3	0.3	0.3	0.3
177°	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640206  
CATALOG NUMBER: LCR810RD9FSE020-12W-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)