

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: P640210

Luminaire Tested: LCR810RD9FSE040-12W-3000K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640210  
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: LCR810RD9FSE040-12W-3000K  
Description: LCR 8  
Light Source: 3000K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

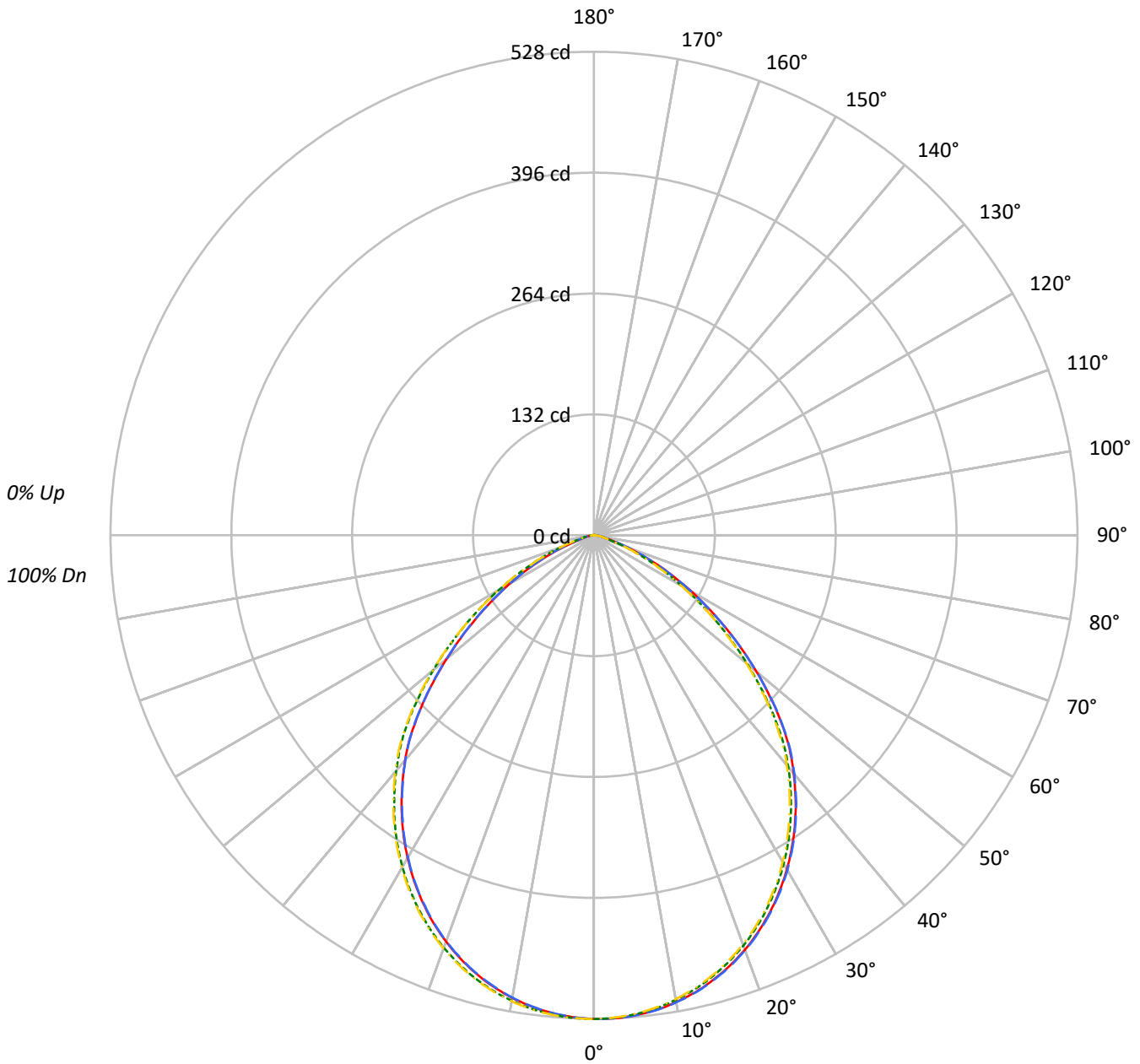
Lumens per Lamp: N/A  
Luminaire Lumens: 1090.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.26  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.1  
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: P640210  
CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

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

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

	0°	90°	180°	270°
0°	16291	16291	16291	16291
5°	16285	16248	16214	16263
10°	16207	16132	16066	16166
15°	16055	15933	15828	15991
20°	15810	15650	15495	15728
25°	15464	15263	15056	15369
30°	15001	14755	14488	14894
35°	14414	14109	13782	14286
40°	13662	13296	12909	13517
45°	12620	12084	11665	12485
50°	11115	10492	10065	10991
55°	9403	8720	8349	9279
60°	7567	6858	6556	7444
65°	5640	4925	4589	5523
70°	3516	3020	2669	3552
75°	1930	1656	1525	1990
80°	1545	1421	1225	1634
85°	1238	1097	778	1451

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	4.6
10°-20°	140.8	12.9
20°-30°	206.6	19.0
30°-40°	234.4	21.5
40°-50°	214.9	19.7
50°-60°	148.8	13.6
60°-70°	71.4	6.5
70°-80°	18.7	1.7
80°-90°	3.9	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°	397.1	36.4
0°-40°	631.6	57.9
0°-60°	995.3	91.3
0°-90°	1089.1	99.9
90°-120°	0.2	0.0
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	528	528	528	528	528	
5°	526	525	524	525	526	50
15°	503	499	496	501	503	142
25°	454	449	442	452	454	209
35°	383	375	366	380	383	239
45°	289	277	268	286	289	222
55°	175	162	155	173	175	157
65°	77	68	63	76	77	77
75°	16	14	13	17	16	20
85°	4	3	2	4	4	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



TEST NUMBER: P640210

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
0.5°	528.3	528.3	528.3	528.3	528.3	528.2	528.2	528.2	528.1	528.1	528.1
1°	528.3	528.3	528.4	528.3	528.2	528.1	528.0	528.0	527.8	527.9	527.8
1.5°	528.3	528.2	528.3	528.3	528.0	527.9	527.8	527.8	527.5	527.7	527.5
2°	528.2	528.1	528.2	528.1	527.8	527.6	527.5	527.5	527.1	527.3	527.1
2.5°	528.0	527.9	528.0	527.9	527.4	527.3	527.1	527.1	526.8	526.9	526.7
3°	527.8	527.6	527.8	527.7	527.0	526.9	526.7	526.7	526.3	526.5	526.2
3.5°	527.5	527.3	527.6	527.4	526.6	526.4	526.3	526.2	525.8	525.9	525.6
4°	527.1	526.9	527.3	527.0	526.1	525.9	525.7	525.7	525.2	525.4	525.0
4.5°	526.7	526.4	526.9	526.6	525.6	525.4	525.2	525.1	524.6	524.7	524.3
5°	526.1	525.9	526.4	526.1	524.9	524.7	524.5	524.4	523.8	524.0	523.6
5.5°	525.6	525.4	525.8	525.5	524.2	524.0	523.8	523.6	522.9	523.2	522.8
6°	525.0	524.8	525.2	524.8	523.5	523.2	522.9	522.9	522.1	522.4	521.9
6.5°	524.3	524.1	524.5	524.2	522.6	522.3	522.1	522.0	521.3	521.6	521.0
7°	523.6	523.3	523.8	523.4	521.7	521.4	521.2	521.1	520.3	520.6	520.0
7.5°	522.8	522.4	523.0	522.6	520.9	520.4	520.2	520.1	519.3	519.6	518.9
8°	521.9	521.5	522.2	521.7	519.9	519.4	519.2	519.0	518.1	518.4	517.8
8.5°	521.0	520.5	521.2	520.7	518.8	518.3	518.1	518.0	517.0	517.3	516.6
9°	519.9	519.5	520.2	519.7	517.7	517.1	516.9	516.8	515.7	516.1	515.4
9.5°	518.8	518.4	519.2	518.6	516.4	515.9	515.7	515.6	514.4	514.8	514.1
10°	517.6	517.3	518.0	517.5	515.2	514.7	514.4	514.2	513.1	513.5	512.7
10.5°	516.5	516.1	516.8	516.3	513.8	513.3	513.0	512.8	511.7	512.1	511.2
11°	515.2	514.8	515.6	515.1	512.4	511.9	511.5	511.4	510.2	510.5	509.7
11.5°	513.9	513.4	514.3	513.8	511.0	510.5	510.1	509.9	508.6	509.0	508.1
12°	512.6	511.9	512.9	512.3	509.5	509.0	508.6	508.4	506.9	507.4	506.4
12.5°	511.2	510.5	511.5	510.8	508.0	507.4	507.0	506.8	505.2	505.8	504.8
13°	509.6	508.9	510.1	509.3	506.3	505.7	505.3	505.1	503.4	504.0	503.0
13.5°	508.1	507.4	508.4	507.7	504.6	504.0	503.6	503.3	501.7	502.2	501.2
14°	506.4	505.7	506.8	506.1	502.8	502.2	501.8	501.5	499.8	500.4	499.3
14.5°	504.7	504.0	505.1	504.4	501.0	500.3	499.9	499.6	497.9	498.4	497.3
15°	502.9	502.1	503.4	502.6	499.1	498.4	498.0	497.6	495.8	496.4	495.4
15.5°	501.0	500.3	501.5	500.7	497.2	496.4	496.0	495.7	493.8	494.4	493.2
16°	499.1	498.4	499.6	498.9	495.2	494.4	494.0	493.6	491.6	492.2	491.1
16.5°	497.2	496.3	497.8	497.0	493.1	492.4	491.8	491.5	489.4	490.1	488.8
17°	495.2	494.3	495.7	494.9	491.0	490.2	489.7	489.3	487.2	487.8	486.6
17.5°	493.1	492.3	493.6	492.8	488.8	488.0	487.4	487.0	484.9	485.4	484.2
18°	490.9	490.1	491.6	490.7	486.4	485.8	485.2	484.7	482.5	483.0	481.8
18.5°	488.7	487.9	489.4	488.4	484.2	483.4	482.7	482.4	480.0	480.6	479.5
19°	486.5	485.5	487.1	486.1	481.8	481.0	480.4	479.8	477.5	478.2	476.9
19.5°	484.1	483.2	484.8	483.8	479.4	478.5	477.9	477.3	474.9	475.6	474.3
20°	481.8	480.7	482.5	481.5	476.9	476.0	475.4	474.8	472.2	473.0	471.7
20.5°	479.3	478.3	480.0	479.0	474.3	473.4	472.7	472.2	469.5	470.2	469.0
21°	476.8	475.8	477.5	476.4	471.7	470.7	470.1	469.6	466.8	467.4	466.2
21.5°	474.2	473.1	475.0	474.0	469.0	468.0	467.3	466.8	464.0	464.7	463.4
22°	471.6	470.5	472.4	471.2	466.3	465.3	464.7	464.0	461.1	461.9	460.5

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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°	468.9	467.8	469.6	468.5	463.5	462.5	461.8	461.1	458.2	459.0	457.5
23°	466.1	465.0	466.9	465.8	460.5	459.6	458.9	458.2	455.1	455.9	454.4
23.5°	463.3	462.1	464.1	463.0	457.7	456.6	455.9	455.2	452.1	452.8	451.4
24°	460.4	459.2	461.2	460.1	454.7	453.6	453.0	452.2	448.9	449.7	448.4
24.5°	457.5	456.2	458.3	457.2	451.6	450.5	449.8	449.1	445.6	446.4	445.0
25°	454.5	453.2	455.3	454.1	448.6	447.5	446.7	446.0	442.5	443.1	441.9
25.5°	451.4	450.0	452.3	451.1	445.3	444.3	443.4	442.8	439.2	439.9	438.6
26°	448.3	447.0	449.2	447.9	442.2	441.0	440.3	439.4	435.8	436.5	435.2
26.5°	445.2	443.8	446.1	444.9	438.8	437.7	436.9	436.1	432.3	433.1	431.7
27°	441.9	440.5	442.8	441.6	435.5	434.4	433.6	432.7	428.9	429.6	428.3
27.5°	438.6	437.2	439.6	438.3	432.0	431.0	430.1	429.3	425.4	426.1	424.7
28°	435.3	433.9	436.2	434.9	428.6	427.5	426.7	425.8	421.8	422.5	421.1
28.5°	431.8	430.4	432.8	431.6	425.2	424.0	423.1	422.2	418.3	418.8	417.6
29°	428.4	426.9	429.4	428.1	421.6	420.4	419.5	418.6	414.5	415.3	413.9
29.5°	424.9	423.4	425.9	424.4	418.0	416.8	415.8	415.0	410.7	411.5	409.9
30°	421.3	419.9	422.4	421.0	414.4	413.1	412.1	411.2	406.9	407.6	406.2
30.5°	417.7	416.1	418.7	417.4	410.6	409.4	408.4	407.4	403.1	403.8	402.3
31°	414.1	412.6	415.0	413.7	406.9	405.6	404.6	403.5	399.2	399.9	398.4
31.5°	410.3	408.8	411.3	410.0	403.1	401.8	400.8	399.7	395.2	395.9	394.5
32°	406.6	405.0	407.7	406.2	399.2	397.8	396.9	395.8	391.2	391.9	390.4
32.5°	402.7	401.2	403.7	402.3	395.3	394.0	392.9	391.9	387.2	387.8	386.4
33°	398.9	397.3	399.8	398.4	391.2	389.9	388.8	387.8	383.0	383.7	382.2
33.5°	395.0	393.4	396.1	394.6	387.3	385.8	384.8	383.7	378.9	379.6	378.0
34°	391.0	389.2	392.1	390.6	383.1	381.8	380.7	379.6	374.7	375.4	373.8
34.5°	387.0	385.2	387.9	386.4	378.9	377.6	376.5	375.4	370.3	371.0	369.6
35°	382.9	381.2	383.9	382.4	374.8	373.5	372.2	371.2	366.1	366.7	365.4
35.5°	378.7	376.9	379.9	378.3	370.5	369.1	368.0	366.9	361.8	362.4	361.0
36°	374.5	372.8	375.5	374.0	366.3	365.0	363.7	362.5	357.2	358.0	356.4
36.5°	370.4	368.5	371.3	369.7	361.9	360.7	359.4	358.2	352.8	353.5	352.1
37°	366.1	364.2	367.2	365.5	357.4	356.1	355.0	353.7	348.3	348.9	347.6
37.5°	361.7	359.8	362.6	361.1	353.1	351.7	350.6	349.4	343.8	344.5	343.1
38°	357.3	355.5	358.2	356.6	348.5	347.1	345.9	344.8	339.3	340.0	338.5
38.5°	352.9	351.0	353.8	352.3	344.1	342.7	341.4	340.3	334.6	335.3	334.0
39°	348.4	346.5	349.5	347.9	339.5	338.0	336.9	335.6	330.0	330.9	329.5
39.5°	344.0	342.0	344.7	343.1	334.8	333.5	332.3	331.1	325.4	326.2	324.8
40°	339.4	337.4	340.5	338.7	330.3	328.8	327.6	326.5	320.7	321.4	320.3
40.5°	334.7	332.8	335.8	334.2	325.6	324.3	323.1	321.8	316.1	316.9	315.5
41°	330.1	328.1	331.2	329.4	320.8	319.3	318.3	317.0	311.2	312.2	310.8
41.5°	325.6	323.4	326.4	324.6	315.7	314.4	313.2	312.1	306.2	307.4	306.1
42°	320.8	318.8	322.0	320.0	310.5	309.0	307.9	306.8	301.1	302.3	301.0
42.5°	316.1	313.8	317.0	314.8	305.2	303.7	302.6	301.5	295.6	297.1	295.8
43°	311.1	308.7	311.9	309.6	299.7	298.1	297.1	296.1	290.1	291.9	290.4
43.5°	305.9	303.4	306.8	304.5	294.2	292.6	291.6	290.6	284.4	286.2	285.0
44°	300.5	297.9	301.4	298.8	288.5	287.0	286.0	284.9	278.9	280.7	279.4
44.5°	295.0	292.4	295.8	293.3	282.7	281.4	280.3	279.3	273.1	275.0	273.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	289.4	286.8	290.3	287.6	277.1	275.6	274.7	273.7	267.5	269.3	268.0
45.5°	283.8	281.1	284.6	282.0	271.3	269.8	268.9	268.0	261.8	263.8	262.4
46°	278.2	275.3	278.9	276.3	265.6	264.1	263.2	262.1	256.0	258.0	256.5
46.5°	272.5	269.6	273.0	270.4	259.8	258.2	257.4	256.3	250.1	252.1	250.9
47°	266.6	263.8	267.3	264.8	253.7	252.3	251.5	250.5	244.4	246.4	245.0
47.5°	260.8	258.0	261.4	258.8	247.9	246.5	245.6	244.7	238.5	240.5	239.3
48°	254.9	252.0	255.6	253.0	242.1	240.6	239.9	238.8	232.9	234.9	233.5
48.5°	249.2	246.2	249.5	247.1	236.2	234.9	234.1	233.1	227.0	229.1	227.6
49°	243.2	240.4	243.8	241.2	230.5	229.0	228.3	227.4	221.3	223.3	221.9
49.5°	237.5	234.4	237.9	235.2	224.5	223.1	222.5	221.6	215.6	217.5	216.1
50°	231.7	228.7	232.1	229.5	218.7	217.4	216.6	215.8	209.8	211.9	210.4
50.5°	225.9	222.9	226.2	223.7	212.9	211.5	210.8	210.0	204.0	206.1	204.8
51°	219.9	216.9	220.5	217.8	207.1	205.7	205.0	204.3	198.6	200.5	199.1
51.5°	214.2	211.1	214.3	211.7	201.3	200.0	199.4	198.7	192.9	195.0	193.5
52°	208.7	205.6	208.7	206.0	195.6	194.3	193.7	193.1	187.6	189.5	187.9
52.5°	202.9	199.8	203.1	200.5	189.9	188.6	188.0	187.5	181.8	183.8	182.5
53°	197.1	194.0	197.1	194.6	184.3	183.1	182.4	181.9	176.5	178.6	177.0
53.5°	191.6	188.5	191.3	188.8	178.7	177.4	176.9	176.4	171.0	173.1	171.4
54°	186.0	182.9	185.9	183.3	173.1	171.9	171.5	170.9	165.8	167.6	166.2
54.5°	180.4	177.2	180.3	177.6	167.6	166.5	165.9	165.5	160.4	162.4	160.9
55°	174.9	171.9	174.6	171.9	162.2	161.1	160.6	160.2	155.3	157.2	155.5
55.5°	169.5	166.5	169.1	166.6	156.8	155.8	155.2	154.9	150.0	152.0	150.4
56°	164.0	160.9	163.8	161.3	151.4	150.3	149.9	149.6	145.0	146.9	145.1
56.5°	158.7	155.6	158.2	155.7	146.1	145.1	144.6	144.3	139.8	141.8	140.0
57°	153.4	150.4	152.9	150.4	141.1	139.9	139.5	139.2	134.9	136.8	135.0
57.5°	148.0	145.2	147.7	145.2	135.8	134.8	134.4	134.2	129.9	131.9	130.2
58°	142.9	140.0	142.3	139.8	130.8	129.7	129.4	129.2	125.0	127.1	125.3
58.5°	137.8	134.9	137.2	134.7	125.8	124.7	124.4	124.2	120.3	122.3	120.3
59°	132.8	129.8	132.2	129.8	120.9	119.8	119.5	119.4	115.6	117.5	115.7
59.5°	127.7	124.9	127.2	124.7	115.9	114.9	114.6	114.6	110.9	112.8	111.1
60°	122.7	119.9	122.1	119.8	111.2	110.1	109.9	110.0	106.3	108.3	106.3
60.5°	118.0	115.1	117.2	114.9	106.4	105.4	105.1	105.2	101.8	103.7	101.9
61°	113.2	110.4	112.4	110.2	101.8	100.9	100.5	100.7	97.5	99.4	97.5
61.5°	108.4	105.6	107.7	105.4	97.2	96.3	96.0	96.2	93.1	95.1	93.1
62°	103.9	101.1	103.0	100.7	92.9	91.9	91.6	91.8	88.6	90.6	88.7
62.5°	99.2	96.6	98.4	96.3	88.3	87.6	87.2	87.5	84.2	86.4	84.7
63°	94.9	92.0	93.9	91.8	84.2	83.4	83.0	83.4	79.9	82.2	80.6
63.5°	90.3	87.6	89.5	87.4	80.0	79.2	78.9	79.3	75.6	78.1	76.6
64°	86.1	83.4	85.1	83.0	75.8	75.1	74.7	75.1	71.2	73.9	72.5
64.5°	81.6	79.2	80.9	78.7	71.6	70.9	70.5	71.0	66.9	69.7	68.5
65°	77.3	75.0	76.7	74.7	67.5	66.8	66.4	66.9	62.9	66.0	64.6
65.5°	72.9	71.0	72.6	70.6	63.7	62.8	62.6	62.8	59.0	62.2	60.8
66°	68.7	66.9	68.6	66.7	59.8	59.1	58.9	59.0	55.2	58.3	57.3
66.5°	64.2	62.9	64.9	62.9	56.1	55.4	55.2	55.2	51.6	54.7	53.7
67°	60.2	59.0	61.0	59.1	52.6	51.9	51.6	51.6	48.1	51.1	50.3





TEST NUMBER: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	56.2	55.2	57.2	55.4	49.1	48.4	48.2	48.1	44.7	47.7	47.1
68°	52.4	51.6	53.7	51.9	45.7	45.2	45.0	44.6	41.4	44.4	43.9
68.5°	48.7	48.0	50.3	48.6	42.5	41.9	41.8	41.4	38.3	41.2	40.7
69°	45.4	44.6	46.9	45.2	39.4	38.8	38.8	38.3	35.2	38.1	37.8
69.5°	42.1	41.3	43.7	42.0	36.4	35.8	35.8	35.4	32.3	35.2	34.9
70°	39.0	38.3	40.6	39.0	33.5	33.0	33.0	32.6	29.6	32.5	32.2
70.5°	36.0	35.4	37.6	36.0	30.8	30.3	30.4	30.0	27.1	29.9	29.6
71°	33.1	33.1	34.7	33.0	28.2	27.8	27.9	27.5	24.6	27.4	27.2
71.5°	30.6	30.6	32.3	30.6	25.8	25.4	25.5	25.2	22.3	25.1	24.9
72°	28.2	28.1	29.9	28.2	23.5	23.2	23.3	23.0	20.2	22.8	22.8
72.5°	25.8	25.6	27.4	25.8	21.4	21.1	21.3	21.0	18.3	20.9	20.8
73°	23.3	23.1	25.0	23.5	19.5	19.3	19.4	19.1	16.7	19.2	19.0
73.5°	21.2	21.1	22.6	21.4	17.8	17.6	17.7	17.4	15.5	17.6	17.4
74°	19.2	19.3	20.6	19.5	16.2	16.2	16.2	16.0	14.3	16.1	16.0
74.5°	17.5	17.6	18.8	17.8	15.0	14.8	14.9	14.7	13.4	14.8	14.7
75°	16.2	16.1	17.2	16.3	13.9	13.8	13.8	13.6	12.8	13.7	13.7
75.5°	14.9	14.8	15.7	14.9	13.1	13.0	13.0	12.7	12.1	12.8	12.9
76°	13.8	13.7	14.5	13.8	12.5	12.4	12.4	12.0	11.5	12.1	12.3
76.5°	13.0	12.7	13.4	13.0	11.9	11.8	11.8	11.4	10.9	11.5	11.6
77°	12.3	12.1	12.6	12.4	11.3	11.2	11.2	10.8	10.3	10.9	11.1
77.5°	11.7	11.5	12.0	11.8	10.7	10.6	10.6	10.2	9.7	10.3	10.5
78°	11.1	10.9	11.4	11.2	10.1	10.1	10.0	9.6	9.1	9.7	9.9
78.5°	10.5	10.3	10.9	10.6	9.6	9.5	9.4	9.1	8.6	9.1	9.3
79°	9.9	9.7	10.3	10.1	9.0	8.9	8.9	8.5	8.0	8.5	8.8
79.5°	9.3	9.1	9.7	9.5	8.5	8.4	8.3	8.0	7.5	8.0	8.2
80°	8.7	8.5	9.1	9.0	8.0	7.9	7.8	7.4	6.9	7.4	7.7
80.5°	8.1	8.0	8.6	8.4	7.4	7.4	7.3	6.9	6.4	6.9	7.2
81°	7.6	7.4	8.0	7.9	6.9	6.9	6.7	6.3	5.9	6.3	6.7
81.5°	7.1	6.9	7.5	7.4	6.4	6.3	6.2	5.8	5.4	5.8	6.1
82°	6.5	6.3	7.0	6.9	5.9	5.8	5.7	5.3	4.9	5.3	5.6
82.5°	6.0	5.8	6.5	6.4	5.4	5.4	5.2	4.8	4.4	4.8	5.1
83°	5.5	5.3	6.0	5.9	4.9	4.9	4.7	4.3	3.9	4.3	4.6
83.5°	5.0	4.8	5.5	5.4	4.5	4.4	4.3	3.8	3.4	3.8	4.2
84°	4.5	4.3	5.0	4.9	4.0	3.9	3.8	3.4	3.0	3.4	3.7
84.5°	4.0	3.8	4.5	4.4	3.5	3.5	3.4	3.0	2.6	3.0	3.3
85°	3.5	3.4	4.0	4.0	3.1	3.1	2.9	2.6	2.2	2.6	2.9
85.5°	3.1	3.0	3.6	3.5	2.7	2.6	2.5	2.2	1.8	2.2	2.4
86°	2.7	2.6	3.2	3.1	2.2	2.2	2.1	1.8	1.5	1.8	2.0
86.5°	2.3	2.1	2.7	2.6	1.8	1.8	1.7	1.5	1.2	1.5	1.6
87°	1.9	1.7	2.3	2.2	1.4	1.3	1.3	1.1	0.9	1.2	1.2
87.5°	1.5	1.4	1.9	1.8	1.0	0.9	1.0	0.8	0.6	0.8	0.8
88°	1.1	1.1	1.5	1.3	0.6	0.5	0.6	0.5	0.3	0.5	0.4
88.5°	0.9	0.8	1.1	0.9	0.2	0.2	0.2	0.2	0.1	0.2	0.1
89°	0.6	0.5	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: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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	0.1	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	0.1	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	0.1	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°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
96°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
97.5°	0.1	0.1	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	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
99°	0.1	0.1	0.1	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	0.1	0.0	0.0	0.0	0.1	0.0	0.0
100.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0
101°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0
101.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
102°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
102.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
103°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
103.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1
104.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
124.5°	0.2	0.2	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	0.2	0.1	0.1
126.5°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
127°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
127.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
128°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
128.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
129°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	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	0.2
130°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
130.5°	0.2	0.2	0.2	0.2	0.2	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	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: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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	0.3	0.2	0.2
147.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
148°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
148.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
149°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.2	0.2	0.2	0.2	0.3	0.3	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°	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.3	0.3	0.3	0.3	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: P640210  
CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	528.3	528.3	528.3	528.3	528.3	528.3
0.5°	528.1	528.2	528.3	528.3	528.3	528.3
1°	527.9	528.2	528.2	528.2	528.2	528.3
1.5°	527.7	528.1	528.1	528.1	528.2	528.3
2°	527.4	527.9	528.0	527.9	528.0	528.2
2.5°	527.0	527.6	527.7	527.7	527.8	528.0
3°	526.5	527.3	527.4	527.5	527.5	527.8
3.5°	526.0	527.0	527.1	527.1	527.1	527.5
4°	525.4	526.5	526.6	526.7	526.7	527.1
4.5°	524.8	526.0	526.1	526.2	526.2	526.7
5°	524.1	525.4	525.6	525.6	525.7	526.1
5.5°	523.3	524.8	525.0	525.0	525.1	525.6
6°	522.4	524.1	524.3	524.4	524.4	525.0
6.5°	521.6	523.3	523.6	523.7	523.7	524.3
7°	520.6	522.5	522.8	522.9	522.9	523.6
7.5°	519.5	521.6	521.9	522.0	522.0	522.8
8°	518.4	520.7	521.0	521.1	521.1	521.9
8.5°	517.3	519.7	520.0	520.1	520.1	521.0
9°	516.2	518.6	518.9	519.1	519.1	519.9
9.5°	514.9	517.5	517.9	518.0	518.0	518.8
10°	513.6	516.3	516.7	516.8	516.8	517.6
10.5°	512.1	515.0	515.4	515.6	515.6	516.5
11°	510.6	513.7	514.2	514.3	514.2	515.2
11.5°	509.2	512.3	512.9	512.9	512.9	513.9
12°	507.6	510.9	511.4	511.5	511.5	512.6
12.5°	506.0	509.4	510.0	510.0	510.0	511.2
13°	504.3	507.9	508.4	508.5	508.4	509.6
13.5°	502.5	506.2	506.7	506.8	506.8	508.1
14°	500.7	504.5	505.1	505.2	505.1	506.4
14.5°	498.7	502.7	503.4	503.4	503.3	504.7
15°	496.8	500.9	501.6	501.7	501.5	502.9
15.5°	494.7	499.0	499.7	499.7	499.6	501.0
16°	492.6	497.1	497.8	497.9	497.7	499.1
16.5°	490.5	495.1	495.9	495.9	495.8	497.2
17°	488.3	493.0	493.8	493.8	493.8	495.2
17.5°	486.0	490.8	491.7	491.6	491.6	493.1
18°	483.7	488.7	489.5	489.5	489.4	490.9
18.5°	481.4	486.4	487.2	487.2	487.2	488.7
19°	478.9	484.1	485.0	485.0	484.9	486.5
19.5°	476.3	481.8	482.7	482.7	482.5	484.1
20°	473.8	479.3	480.3	480.3	480.0	481.8
20.5°	471.1	476.8	477.8	477.8	477.5	479.3
21°	468.4	474.3	475.3	475.3	474.9	476.8
21.5°	465.7	471.6	472.7	472.6	472.3	474.2
22°	462.9	469.0	470.1	470.0	469.6	471.6

TEST NUMBER: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	459.9	466.2	467.3	467.3	467.0	468.9
23°	457.0	463.5	464.6	464.5	464.2	466.1
23.5°	454.0	460.6	461.7	461.7	461.4	463.3
24°	450.9	457.6	458.8	458.7	458.4	460.4
24.5°	447.7	454.6	455.8	455.8	455.5	457.5
25°	444.6	451.7	452.9	452.8	452.4	454.5
25.5°	441.4	448.6	449.8	449.7	449.3	451.4
26°	438.1	445.5	446.7	446.6	446.2	448.3
26.5°	434.8	442.2	443.5	443.4	443.0	445.2
27°	431.4	439.0	440.3	440.2	439.6	441.9
27.5°	427.9	435.7	437.0	436.9	436.4	438.6
28°	424.3	432.3	433.5	433.5	433.0	435.3
28.5°	420.9	428.9	430.1	430.1	429.6	431.8
29°	417.2	425.4	426.8	426.6	426.0	428.4
29.5°	413.4	421.9	423.2	423.1	422.6	424.9
30°	409.8	418.3	419.7	419.6	419.0	421.3
30.5°	406.0	414.6	416.1	416.0	415.4	417.7
31°	402.2	410.9	412.4	412.3	411.6	414.1
31.5°	398.3	407.2	408.8	408.5	408.0	410.3
32°	394.3	403.3	404.9	404.7	404.2	406.6
32.5°	390.4	399.6	401.2	400.9	400.4	402.7
33°	386.3	395.7	397.1	396.9	396.4	398.9
33.5°	382.3	391.7	393.2	393.0	392.4	395.0
34°	378.1	387.7	389.3	389.0	388.4	391.0
34.5°	373.8	383.6	385.3	384.9	384.4	387.0
35°	369.8	379.5	381.1	380.9	380.2	382.9
35.5°	365.5	375.3	377.0	376.8	376.1	378.7
36°	361.1	371.2	372.7	372.5	371.9	374.5
36.5°	356.7	366.8	368.6	368.3	367.6	370.4
37°	352.4	362.5	364.1	364.0	363.3	366.1
37.5°	347.8	358.2	360.0	359.6	359.0	361.7
38°	343.3	353.7	355.5	355.3	354.5	357.3
38.5°	339.0	349.3	351.1	350.8	350.1	352.9
39°	334.6	344.9	346.6	346.4	345.6	348.4
39.5°	329.7	340.4	342.2	341.9	341.1	344.0
40°	325.2	335.8	337.6	337.3	336.4	339.4
40.5°	320.6	331.4	333.0	332.9	331.9	334.7
41°	316.0	326.7	328.5	328.2	327.4	330.1
41.5°	311.2	322.1	323.9	323.7	322.8	325.6
42°	306.3	317.5	319.3	319.1	318.1	320.8
42.5°	301.2	312.8	314.7	314.4	313.3	316.1
43°	295.9	307.8	309.6	309.4	308.2	311.1
43.5°	290.5	302.5	304.4	304.1	303.0	305.9
44°	285.1	297.2	299.1	298.8	297.6	300.5
44.5°	279.3	291.9	293.8	293.4	292.1	295.0



TEST NUMBER: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	273.8	286.3	288.1	287.9	286.4	289.4
45.5°	268.2	280.8	282.6	282.3	280.8	283.8
46°	262.5	275.2	276.9	276.7	275.1	278.2
46.5°	256.7	269.4	271.2	270.8	269.3	272.5
47°	250.9	263.6	265.6	265.1	263.6	266.6
47.5°	245.2	257.9	259.6	259.3	257.7	260.8
48°	239.5	252.2	253.9	253.4	251.9	254.9
48.5°	233.5	246.4	248.0	247.7	246.1	249.2
49°	227.9	240.5	242.3	241.7	240.3	243.2
49.5°	222.2	234.9	236.5	235.9	234.5	237.5
50°	216.2	229.1	230.6	230.0	228.6	231.7
50.5°	210.6	223.2	224.6	224.2	222.7	225.9
51°	204.9	217.6	219.0	218.4	216.9	219.9
51.5°	199.2	211.8	213.2	212.6	211.2	214.2
52°	193.5	206.0	207.5	206.9	205.4	208.7
52.5°	188.0	200.5	201.6	201.1	199.7	202.9
53°	182.4	194.8	196.0	195.4	194.0	197.1
53.5°	176.8	189.1	190.4	189.7	188.2	191.6
54°	171.4	183.5	184.7	184.0	182.7	186.0
54.5°	166.1	178.1	179.2	178.6	177.2	180.4
55°	160.6	172.6	173.7	173.0	171.7	174.9
55.5°	155.3	167.1	168.2	167.6	166.2	169.5
56°	149.9	161.7	162.8	162.1	160.9	164.0
56.5°	144.9	156.4	157.4	156.7	155.4	158.7
57°	139.7	151.1	152.1	151.3	150.2	153.4
57.5°	134.6	145.9	146.8	146.0	144.9	148.0
58°	129.7	140.8	141.7	141.0	139.9	142.9
58.5°	124.7	135.6	136.5	135.8	134.7	137.8
59°	119.8	130.5	131.6	130.7	129.7	132.8
59.5°	115.1	125.6	126.5	125.6	124.7	127.7
60°	110.3	120.7	121.6	120.8	119.8	122.7
60.5°	105.6	115.8	116.8	115.7	114.9	118.0
61°	101.1	111.1	112.0	111.0	110.2	113.2
61.5°	96.6	106.4	107.3	106.4	105.6	108.4
62°	92.1	101.8	102.7	101.9	101.0	103.9
62.5°	87.9	97.1	98.1	97.2	96.4	99.2
63°	83.7	92.8	93.6	92.8	92.0	94.9
63.5°	79.7	88.3	89.1	88.3	87.6	90.3
64°	75.6	84.0	84.8	84.0	83.4	86.1
64.5°	71.5	79.8	80.6	79.8	79.2	81.6
65°	67.4	75.7	76.5	75.7	75.0	77.3
65.5°	63.5	71.6	72.3	71.7	71.0	72.9
66°	59.8	67.5	68.3	67.6	67.0	68.7
66.5°	56.1	63.7	64.4	63.8	63.2	64.2
67°	52.6	59.8	60.6	60.0	59.4	60.2



TEST NUMBER: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	49.3	56.2	56.9	56.4	55.6	56.2
68°	45.9	52.6	53.3	52.9	52.0	52.4
68.5°	42.7	49.1	49.8	49.4	48.4	48.7
69°	39.6	45.8	46.4	46.1	45.0	45.4
69.5°	36.7	42.5	43.1	42.8	41.7	42.1
70°	33.9	39.4	40.0	39.8	38.5	39.0
70.5°	31.2	36.4	36.9	36.8	35.6	36.0
71°	28.6	33.4	34.1	34.0	33.2	33.1
71.5°	26.2	30.9	31.7	31.6	30.7	30.6
72°	24.0	28.5	29.3	29.2	28.2	28.2
72.5°	21.9	26.1	26.9	26.8	25.7	25.8
73°	20.1	23.7	24.5	24.4	23.2	23.3
73.5°	18.3	21.6	22.1	22.0	21.2	21.2
74°	16.8	19.8	20.2	20.1	19.4	19.2
74.5°	15.5	18.1	18.4	18.4	17.7	17.5
75°	14.3	16.7	16.9	16.8	16.2	16.2
75.5°	13.4	15.4	15.6	15.5	14.9	14.9
76°	12.7	14.2	14.4	14.3	13.7	13.8
76.5°	12.1	13.4	13.5	13.4	12.9	13.0
77°	11.5	12.7	12.8	12.7	12.3	12.3
77.5°	10.9	12.1	12.2	12.1	11.6	11.7
78°	10.3	11.5	11.6	11.5	11.0	11.1
78.5°	9.8	10.9	11.0	10.9	10.4	10.5
79°	9.2	10.3	10.4	10.3	9.8	9.9
79.5°	8.7	9.7	9.8	9.7	9.2	9.3
80°	8.1	9.2	9.3	9.1	8.6	8.7
80.5°	7.6	8.6	8.7	8.6	8.0	8.1
81°	7.1	8.1	8.2	8.0	7.5	7.6
81.5°	6.6	7.5	7.6	7.5	6.9	7.1
82°	6.0	7.0	7.1	7.0	6.4	6.5
82.5°	5.5	6.5	6.6	6.5	5.9	6.0
83°	5.1	6.0	6.1	5.9	5.4	5.5
83.5°	4.6	5.5	5.6	5.4	4.9	5.0
84°	4.1	5.0	5.1	4.9	4.4	4.5
84.5°	3.6	4.6	4.6	4.5	3.9	4.0
85°	3.2	4.1	4.2	4.0	3.4	3.5
85.5°	2.8	3.6	3.7	3.6	3.0	3.1
86°	2.3	3.2	3.2	3.1	2.6	2.7
86.5°	1.9	2.7	2.8	2.7	2.2	2.3
87°	1.5	2.3	2.3	2.3	1.9	1.9
87.5°	1.1	1.8	1.9	1.8	1.5	1.5
88°	0.6	1.4	1.5	1.4	1.1	1.1
88.5°	0.3	1.0	1.1	1.0	0.8	0.9
89°	0.1	0.6	0.7	0.6	0.5	0.6
89.5°	0.0	0.2	0.3	0.2	0.2	0.3



TEST NUMBER: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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	0.1	0.1	0.1
91°	0.0	0.0	0.0	0.1	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	0.1
96°	0.0	0.0	0.0	0.0	0.0	0.1
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	0.1	0.0	0.0	0.0	0.1
98.5°	0.0	0.1	0.1	0.0	0.1	0.1
99°	0.0	0.1	0.1	0.1	0.1	0.1
99.5°	0.0	0.1	0.1	0.1	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°	0.1	0.1	0.1	0.1	0.1	0.1
106°	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
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: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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	0.2
124°	0.1	0.1	0.1	0.1	0.1	0.2
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	0.2	0.2
126.5°	0.1	0.1	0.1	0.1	0.2	0.2
127°	0.1	0.2	0.1	0.2	0.2	0.2
127.5°	0.1	0.2	0.2	0.2	0.2	0.2
128°	0.1	0.2	0.2	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°	0.2	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: P640210  
 CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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°	0.3	0.2	0.2	0.2	0.2	0.2
148.5°	0.3	0.2	0.2	0.2	0.2	0.2
149°	0.3	0.2	0.2	0.2	0.2	0.2
149.5°	0.3	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	0.3
152.5°	0.3	0.2	0.2	0.2	0.2	0.3
153°	0.3	0.2	0.2	0.2	0.2	0.3
153.5°	0.3	0.2	0.2	0.2	0.3	0.3
154°	0.3	0.2	0.2	0.2	0.3	0.3
154.5°	0.3	0.2	0.2	0.2	0.3	0.3
155°	0.3	0.2	0.2	0.2	0.3	0.3
155.5°	0.3	0.2	0.2	0.2	0.3	0.3
156°	0.3	0.2	0.2	0.2	0.3	0.3
156.5°	0.3	0.2	0.2	0.2	0.3	0.3
157°	0.3	0.2	0.2	0.3	0.3	0.3



TEST NUMBER: P640210

CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.2	0.2	0.3	0.3	0.3
158°	0.3	0.2	0.2	0.3	0.3	0.3
158.5°	0.3	0.2	0.2	0.3	0.3	0.3
159°	0.3	0.2	0.3	0.3	0.3	0.3
159.5°	0.3	0.2	0.3	0.3	0.3	0.3
160°	0.3	0.2	0.3	0.3	0.3	0.3
160.5°	0.3	0.2	0.3	0.3	0.3	0.3
161°	0.3	0.2	0.3	0.3	0.3	0.3
161.5°	0.3	0.2	0.3	0.3	0.3	0.3
162°	0.3	0.2	0.3	0.3	0.3	0.3
162.5°	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	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
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: P640210  
CATALOG NUMBER: LCR810RD9FSE040-12W-3000K

**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)