

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: P640205

Luminaire Tested: LCR810RD9FSE020-12W-3500K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640205  
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-3500K  
Description: LCR 8  
Light Source: 3500K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

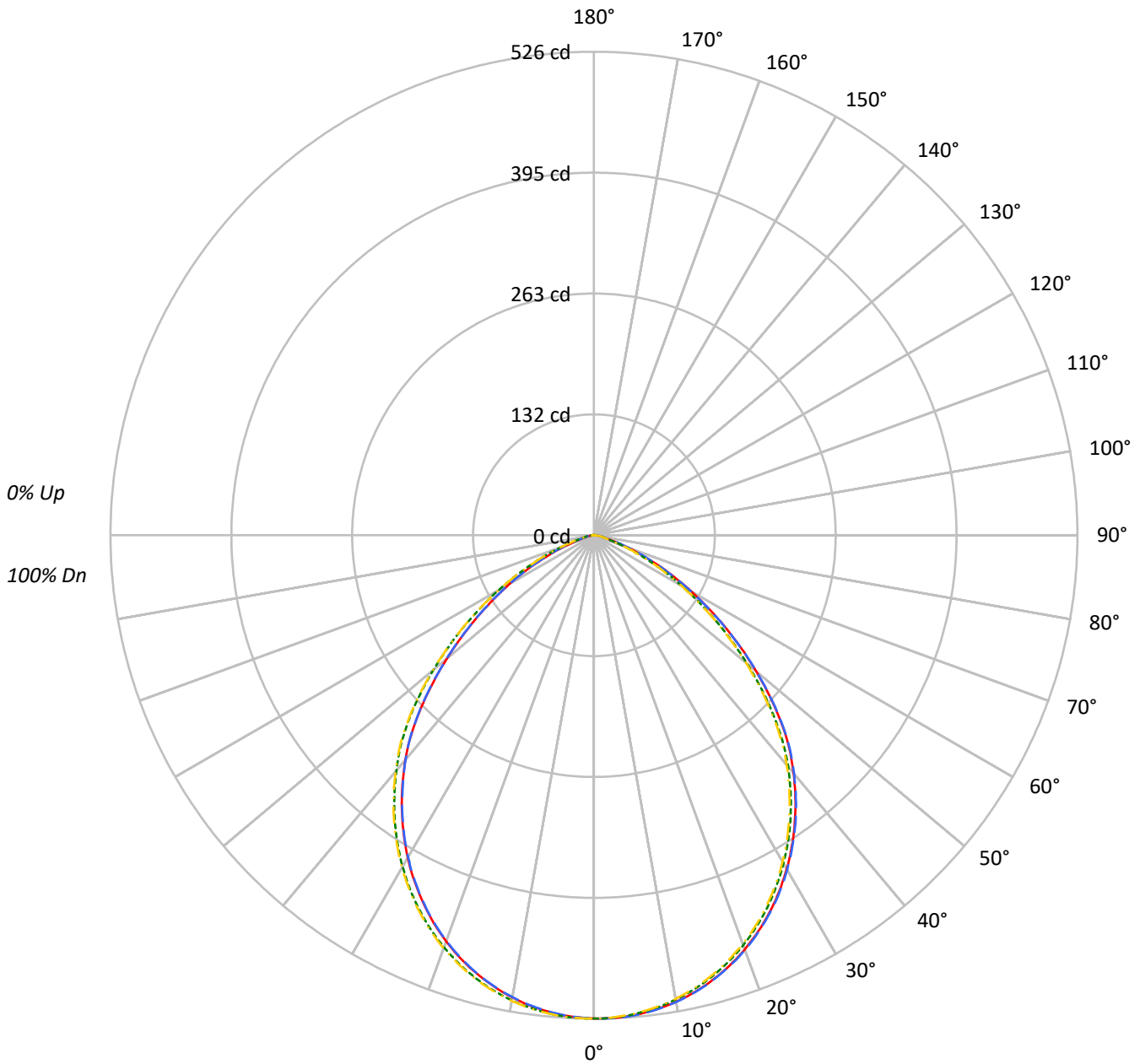
Lumens per Lamp: N/A  
Luminaire Lumens: 1085.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.26  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.2  
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: P640205  
CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

### 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	0
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°	16214	16214	16214	16214
5°	16211	16174	16139	16189
10°	16135	16057	15991	16091
15°	15981	15860	15758	15917
20°	15738	15581	15423	15656
25°	15393	15192	14984	15297
30°	14933	14688	14424	14827
35°	14346	14045	13718	14222
40°	13598	13231	12853	13457
45°	12564	12027	11613	12429
50°	11063	10444	10017	10938
55°	9360	8677	8312	9236
60°	7536	6827	6531	7413
65°	5611	4903	4568	5494
70°	3498	3002	2660	3534
75°	1918	1644	1513	1978
80°	1545	1403	1225	1616
85°	1238	1097	778	1451

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12603 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	4.6
10°-20°	140.1	12.9
20°-30°	205.6	19.0
30°-40°	233.3	21.5
40°-50°	213.9	19.7
50°-60°	148.1	13.6
60°-70°	71.0	6.5
70°-80°	18.6	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°	395.3	36.4
0°-40°	628.7	57.9
0°-60°	990.7	91.3
0°-90°	1084.1	99.9
90°-120°	0.2	0.0
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	526	526	526	526	526	
5°	524	522	521	523	524	50
15°	501	497	494	499	501	141
25°	452	446	440	450	452	208
35°	381	373	364	378	381	238
45°	288	276	266	285	288	221
55°	174	161	155	172	174	156
65°	77	67	63	75	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8
0.5°	525.9	525.9	525.9	525.9	525.8	525.8	525.7	525.7	525.6	525.7	525.6
1°	525.9	525.9	525.9	525.9	525.8	525.6	525.6	525.6	525.4	525.5	525.4
1.5°	525.8	525.8	525.9	525.8	525.6	525.4	525.4	525.4	525.0	525.2	525.1
2°	525.8	525.7	525.8	525.7	525.4	525.2	525.1	525.0	524.7	524.9	524.7
2.5°	525.6	525.5	525.6	525.5	525.0	524.9	524.7	524.7	524.4	524.5	524.2
3°	525.4	525.2	525.4	525.3	524.6	524.5	524.3	524.3	523.9	524.0	523.8
3.5°	525.1	524.9	525.2	524.9	524.2	524.0	523.8	523.8	523.4	523.5	523.2
4°	524.7	524.5	524.9	524.6	523.7	523.5	523.3	523.3	522.8	523.0	522.6
4.5°	524.2	524.0	524.4	524.2	523.2	523.0	522.7	522.7	522.2	522.3	521.9
5°	523.7	523.5	524.0	523.7	522.5	522.3	522.1	522.0	521.4	521.6	521.2
5.5°	523.2	523.0	523.4	523.1	521.8	521.6	521.4	521.2	520.5	520.8	520.4
6°	522.6	522.4	522.8	522.4	521.1	520.8	520.5	520.5	519.7	520.0	519.5
6.5°	521.9	521.7	522.1	521.8	520.2	519.9	519.7	519.6	518.9	519.2	518.6
7°	521.2	520.9	521.4	521.0	519.3	519.0	518.8	518.7	517.9	518.2	517.6
7.5°	520.4	520.0	520.6	520.2	518.5	518.1	517.8	517.7	516.9	517.2	516.5
8°	519.5	519.1	519.8	519.3	517.5	517.0	516.8	516.7	515.7	516.1	515.4
8.5°	518.6	518.1	518.8	518.3	516.4	515.9	515.7	515.6	514.6	514.9	514.2
9°	517.5	517.1	517.8	517.3	515.3	514.8	514.5	514.4	513.3	513.7	513.0
9.5°	516.5	516.0	516.8	516.3	514.1	513.5	513.3	513.2	512.1	512.4	511.7
10°	515.3	514.9	515.7	515.1	512.8	512.3	512.0	511.9	510.7	511.1	510.4
10.5°	514.1	513.7	514.5	513.9	511.4	511.0	510.6	510.5	509.3	509.7	508.9
11°	512.8	512.4	513.2	512.7	510.1	509.6	509.2	509.1	507.8	508.2	507.4
11.5°	511.6	511.0	511.9	511.4	508.6	508.2	507.7	507.6	506.2	506.7	505.8
12°	510.2	509.6	510.6	510.0	507.2	506.7	506.3	506.1	504.6	505.1	504.1
12.5°	508.8	508.1	509.2	508.5	505.7	505.1	504.7	504.4	502.9	503.5	502.4
13°	507.3	506.6	507.8	507.0	504.0	503.4	503.0	502.8	501.1	501.7	500.7
13.5°	505.7	505.0	506.1	505.4	502.3	501.7	501.3	501.0	499.4	499.9	498.9
14°	504.1	503.4	504.5	503.7	500.5	499.9	499.5	499.2	497.5	498.1	497.0
14.5°	502.4	501.7	502.8	502.1	498.7	498.1	497.6	497.3	495.6	496.1	495.0
15°	500.6	499.8	501.0	500.3	496.8	496.2	495.7	495.4	493.6	494.1	493.1
15.5°	498.7	498.0	499.2	498.5	494.9	494.2	493.7	493.4	491.5	492.1	491.0
16°	496.9	496.1	497.3	496.6	492.9	492.2	491.7	491.4	489.4	489.9	488.9
16.5°	494.9	494.1	495.5	494.7	490.8	490.1	489.6	489.2	487.2	487.9	486.6
17°	492.9	492.1	493.4	492.6	488.8	488.0	487.4	487.0	484.9	485.5	484.3
17.5°	490.9	490.0	491.4	490.5	486.6	485.8	485.2	484.8	482.7	483.2	482.0
18°	488.7	487.8	489.3	488.5	484.2	483.6	483.0	482.5	480.3	480.8	479.6
18.5°	486.5	485.6	487.1	486.2	482.0	481.2	480.5	480.1	477.8	478.4	477.3
19°	484.2	483.3	484.8	483.9	479.6	478.8	478.2	477.6	475.3	476.0	474.7
19.5°	481.9	481.0	482.5	481.6	477.2	476.4	475.7	475.2	472.7	473.4	472.1
20°	479.6	478.5	480.3	479.2	474.8	473.9	473.2	472.7	470.0	470.8	469.6
20.5°	477.1	476.1	477.8	476.8	472.1	471.3	470.6	470.1	467.4	468.1	466.8
21°	474.6	473.6	475.3	474.2	469.6	468.6	468.0	467.4	464.6	465.3	464.1
21.5°	472.0	471.0	472.8	471.8	466.9	465.9	465.2	464.7	461.8	462.6	461.3
22°	469.4	468.3	470.2	469.1	464.1	463.2	462.5	461.9	459.0	459.7	458.4



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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°	466.7	465.7	467.5	466.4	461.4	460.3	459.7	459.0	456.1	456.9	455.4
23°	464.0	462.9	464.7	463.6	458.4	457.4	456.8	456.1	453.0	453.8	452.3
23.5°	461.2	460.0	462.0	460.9	455.6	454.5	453.8	453.1	450.0	450.8	449.4
24°	458.3	457.1	459.1	458.0	452.6	451.5	450.9	450.1	446.8	447.6	446.3
24.5°	455.4	454.1	456.2	455.1	449.5	448.4	447.7	447.0	443.6	444.4	443.0
25°	452.4	451.1	453.3	452.1	446.5	445.4	444.6	443.9	440.4	441.1	439.9
25.5°	449.3	448.0	450.2	449.0	443.3	442.3	441.4	440.7	437.2	437.9	436.6
26°	446.3	445.0	447.1	445.9	440.1	439.0	438.2	437.4	433.8	434.5	433.2
26.5°	443.2	441.8	444.0	442.9	436.8	435.7	434.9	434.1	430.3	431.1	429.7
27°	439.9	438.5	440.8	439.6	433.5	432.4	431.6	430.7	426.9	427.7	426.3
27.5°	436.6	435.2	437.5	436.3	430.1	429.0	428.1	427.3	423.5	424.2	422.7
28°	433.3	431.9	434.2	432.9	426.6	425.5	424.7	423.8	419.9	420.5	419.1
28.5°	429.8	428.4	430.9	429.6	423.3	422.0	421.1	420.2	416.3	416.9	415.7
29°	426.4	424.9	427.4	426.1	419.6	418.5	417.6	416.6	412.6	413.3	412.0
29.5°	422.9	421.4	423.9	422.5	416.1	414.9	413.9	413.1	408.8	409.6	408.0
30°	419.4	418.0	420.4	419.1	412.5	411.2	410.2	409.3	405.1	405.7	404.4
30.5°	415.8	414.2	416.8	415.5	408.7	407.5	406.5	405.5	401.3	401.9	400.5
31°	412.2	410.7	413.1	411.8	405.0	403.7	402.8	401.7	397.4	398.0	396.6
31.5°	408.4	406.9	409.4	408.1	401.2	399.9	398.9	397.9	393.3	394.1	392.7
32°	404.7	403.1	405.8	404.3	397.4	396.0	395.1	394.0	389.4	390.1	388.6
32.5°	400.8	399.3	401.8	400.4	393.5	392.2	391.1	390.1	385.4	386.1	384.6
33°	397.1	395.5	398.0	396.6	389.4	388.1	387.0	386.1	381.2	382.0	380.5
33.5°	393.2	391.6	394.2	392.8	385.5	384.1	383.0	381.9	377.2	377.8	376.2
34°	389.2	387.4	390.3	388.8	381.4	380.0	378.9	377.8	372.9	373.7	372.1
34.5°	385.3	383.5	386.1	384.6	377.2	375.9	374.8	373.7	368.6	369.3	367.9
35°	381.1	379.4	382.2	380.7	373.1	371.8	370.5	369.5	364.4	365.0	363.7
35.5°	376.9	375.2	378.1	376.6	368.8	367.4	366.3	365.2	360.1	360.7	359.4
36°	372.8	371.1	373.8	372.3	364.6	363.3	362.1	360.9	355.5	356.3	354.8
36.5°	368.7	366.8	369.6	368.0	360.2	359.1	357.8	356.6	351.2	351.9	350.5
37°	364.4	362.5	365.5	363.8	355.8	354.5	353.3	352.1	346.7	347.3	346.0
37.5°	360.0	358.2	360.9	359.4	351.5	350.1	349.0	347.7	342.2	343.0	341.6
38°	355.7	353.9	356.6	355.0	346.9	345.5	344.3	343.2	337.7	338.5	337.0
38.5°	351.3	349.4	352.2	350.7	342.5	341.1	339.8	338.7	333.1	333.8	332.5
39°	346.8	344.9	347.9	346.3	337.9	336.4	335.3	334.1	328.5	329.4	328.0
39.5°	342.4	340.5	343.2	341.5	333.2	331.9	330.8	329.6	323.9	324.7	323.3
40°	337.8	335.9	338.9	337.1	328.7	327.3	326.1	325.0	319.3	320.0	318.8
40.5°	333.2	331.3	334.2	332.6	324.1	322.8	321.6	320.3	314.6	315.5	314.1
41°	328.6	326.6	329.7	327.9	319.3	317.9	316.9	315.5	309.8	310.8	309.3
41.5°	324.1	322.0	324.9	323.1	314.3	312.9	311.7	310.6	304.8	306.0	304.7
42°	319.3	317.3	320.5	318.5	309.1	307.6	306.5	305.4	299.7	300.9	299.7
42.5°	314.6	312.4	315.6	313.4	303.8	302.4	301.2	300.1	294.3	295.8	294.5
43°	309.7	307.3	310.5	308.2	298.4	296.8	295.8	294.7	288.8	290.5	289.1
43.5°	304.5	302.0	305.4	303.1	292.8	291.3	290.3	289.3	283.1	284.9	283.7
44°	299.1	296.5	300.0	297.5	287.2	285.7	284.7	283.6	277.7	279.4	278.1
44.5°	293.6	291.0	294.5	291.9	281.4	280.1	279.0	278.0	271.9	273.8	272.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	288.1	285.5	289.0	286.3	275.8	274.3	273.4	272.4	266.3	268.0	266.8
45.5°	282.5	279.8	283.3	280.7	270.1	268.6	267.7	266.7	260.6	262.6	261.2
46°	276.9	274.0	277.6	275.1	264.4	262.9	262.0	260.9	254.8	256.8	255.3
46.5°	271.2	268.3	271.8	269.2	258.6	257.1	256.2	255.2	248.9	251.0	249.7
47°	265.4	262.6	266.1	263.5	252.5	251.2	250.3	249.4	243.2	245.3	243.8
47.5°	259.6	256.8	260.2	257.7	246.8	245.3	244.5	243.6	237.4	239.4	238.2
48°	253.8	250.8	254.4	251.8	241.0	239.5	238.8	237.7	231.8	233.8	232.4
48.5°	248.1	245.1	248.4	246.0	235.2	233.8	233.0	232.0	226.0	228.1	226.6
49°	242.1	239.3	242.7	240.1	229.5	227.9	227.3	226.3	220.3	222.3	220.9
49.5°	236.4	233.4	236.8	234.1	223.4	222.1	221.5	220.5	214.6	216.5	215.1
50°	230.6	227.6	231.0	228.4	217.7	216.4	215.6	214.8	208.8	211.0	209.4
50.5°	224.8	221.9	225.1	222.7	212.0	210.5	209.8	209.1	203.1	205.1	203.8
51°	218.9	215.9	219.5	216.8	206.1	204.7	204.1	203.4	197.7	199.6	198.1
51.5°	213.2	210.2	213.3	210.8	200.4	199.1	198.5	197.7	192.0	194.2	192.6
52°	207.7	204.7	207.7	205.1	194.7	193.4	192.8	192.2	186.7	188.6	187.0
52.5°	202.0	198.9	202.2	199.5	189.0	187.8	187.2	186.6	181.0	183.0	181.6
53°	196.2	193.1	196.2	193.7	183.5	182.3	181.6	181.0	175.7	177.8	176.2
53.5°	190.7	187.6	190.4	188.0	177.9	176.6	176.1	175.6	170.2	172.3	170.6
54°	185.1	182.0	185.0	182.5	172.3	171.1	170.7	170.1	165.0	166.9	165.4
54.5°	179.5	176.4	179.5	176.8	166.8	165.7	165.1	164.7	159.7	161.7	160.1
55°	174.1	171.1	173.8	171.1	161.4	160.4	159.9	159.4	154.6	156.4	154.8
55.5°	168.7	165.8	168.3	165.8	156.1	155.0	154.5	154.2	149.3	151.3	149.7
56°	163.3	160.2	163.0	160.5	150.7	149.7	149.2	148.9	144.4	146.2	144.4
56.5°	158.0	154.9	157.5	155.0	145.4	144.4	143.9	143.7	139.1	141.2	139.4
57°	152.7	149.7	152.2	149.7	140.4	139.3	138.8	138.6	134.2	136.2	134.4
57.5°	147.4	144.5	147.1	144.6	135.2	134.1	133.7	133.6	129.3	131.3	129.6
58°	142.2	139.3	141.6	139.1	130.2	129.1	128.8	128.6	124.5	126.5	124.7
58.5°	137.2	134.2	136.6	134.1	125.2	124.1	123.8	123.6	119.7	121.7	119.8
59°	132.2	129.2	131.6	129.2	120.3	119.2	118.9	118.9	115.1	117.0	115.2
59.5°	127.1	124.3	126.6	124.1	115.4	114.4	114.0	114.0	110.4	112.3	110.6
60°	122.2	119.4	121.5	119.3	110.7	109.6	109.4	109.5	105.9	107.8	105.8
60.5°	117.5	114.6	116.6	114.4	105.9	104.9	104.6	104.8	101.3	103.2	101.4
61°	112.7	109.9	111.9	109.7	101.3	100.4	100.0	100.3	97.1	98.9	97.1
61.5°	107.9	105.1	107.2	104.9	96.8	95.9	95.6	95.7	92.7	94.6	92.6
62°	103.5	100.6	102.5	100.3	92.4	91.5	91.2	91.4	88.2	90.2	88.3
62.5°	98.7	96.1	97.9	95.8	87.9	87.2	86.8	87.1	83.9	86.0	84.3
63°	94.4	91.6	93.5	91.4	83.8	83.0	82.6	83.0	79.5	81.9	80.3
63.5°	89.9	87.2	89.1	87.0	79.6	78.9	78.5	78.9	75.2	77.7	76.2
64°	85.7	83.0	84.7	82.6	75.5	74.7	74.4	74.8	70.9	73.6	72.2
64.5°	81.2	78.8	80.5	78.4	71.3	70.6	70.2	70.7	66.6	69.4	68.2
65°	76.9	74.6	76.4	74.4	67.2	66.5	66.1	66.6	62.6	65.7	64.3
65.5°	72.6	70.6	72.2	70.3	63.4	62.6	62.3	62.6	58.7	61.9	60.5
66°	68.4	66.6	68.3	66.3	59.6	58.9	58.6	58.7	54.9	58.0	57.1
66.5°	64.0	62.6	64.6	62.6	55.8	55.2	55.0	55.0	51.4	54.5	53.5
67°	59.9	58.8	60.7	58.8	52.4	51.6	51.4	51.4	47.9	50.9	50.1





TEST NUMBER: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	55.9	54.9	57.0	55.2	48.9	48.2	48.0	47.8	44.5	47.5	46.9
68°	52.2	51.3	53.5	51.7	45.5	45.0	44.8	44.4	41.2	44.2	43.7
68.5°	48.5	47.8	50.1	48.4	42.3	41.7	41.6	41.2	38.1	41.0	40.5
69°	45.2	44.4	46.7	45.0	39.2	38.6	38.6	38.2	35.1	38.0	37.6
69.5°	41.9	41.2	43.5	41.8	36.2	35.7	35.6	35.3	32.2	35.1	34.8
70°	38.8	38.2	40.5	38.8	33.3	32.9	32.9	32.5	29.5	32.3	32.1
70.5°	35.9	35.2	37.4	35.8	30.7	30.1	30.2	29.9	26.9	29.8	29.5
71°	33.0	32.9	34.5	32.9	28.1	27.7	27.8	27.4	24.4	27.2	27.0
71.5°	30.5	30.5	32.1	30.5	25.7	25.2	25.4	25.1	22.2	24.9	24.8
72°	28.1	28.0	29.7	28.1	23.4	23.1	23.2	22.9	20.1	22.7	22.7
72.5°	25.6	25.5	27.3	25.7	21.3	21.0	21.2	20.9	18.2	20.8	20.7
73°	23.2	23.0	24.9	23.4	19.4	19.2	19.3	19.0	16.6	19.1	18.9
73.5°	21.1	21.0	22.5	21.3	17.7	17.5	17.6	17.4	15.4	17.5	17.4
74°	19.2	19.2	20.5	19.4	16.2	16.1	16.2	15.9	14.3	16.0	15.9
74.5°	17.4	17.5	18.7	17.7	14.9	14.8	14.8	14.6	13.4	14.8	14.6
75°	16.1	16.1	17.1	16.2	13.8	13.7	13.7	13.5	12.7	13.6	13.6
75.5°	14.8	14.8	15.6	14.8	13.0	12.9	12.9	12.6	12.1	12.7	12.8
76°	13.7	13.6	14.4	13.8	12.4	12.3	12.3	12.0	11.4	12.1	12.2
76.5°	12.9	12.7	13.3	12.9	11.8	11.7	11.7	11.4	10.8	11.4	11.6
77°	12.3	12.0	12.6	12.3	11.2	11.1	11.1	10.8	10.2	10.8	11.0
77.5°	11.7	11.4	12.0	11.7	10.6	10.6	10.5	10.2	9.7	10.2	10.4
78°	11.0	10.8	11.4	11.2	10.1	10.0	10.0	9.6	9.1	9.6	9.8
78.5°	10.4	10.2	10.8	10.6	9.5	9.5	9.4	9.0	8.5	9.0	9.3
79°	9.8	9.6	10.2	10.0	9.0	8.9	8.8	8.5	8.0	8.5	8.7
79.5°	9.3	9.1	9.7	9.4	8.4	8.4	8.3	7.9	7.4	7.9	8.2
80°	8.7	8.5	9.1	8.9	7.9	7.9	7.8	7.4	6.9	7.4	7.7
80.5°	8.1	7.9	8.6	8.4	7.4	7.3	7.2	6.9	6.4	6.9	7.1
81°	7.6	7.4	8.0	7.8	6.9	6.8	6.7	6.3	5.8	6.3	6.6
81.5°	7.0	6.8	7.5	7.3	6.4	6.3	6.2	5.8	5.3	5.8	6.1
82°	6.5	6.3	7.0	6.8	5.9	5.8	5.7	5.3	4.9	5.3	5.6
82.5°	6.0	5.8	6.4	6.3	5.4	5.3	5.2	4.8	4.4	4.8	5.1
83°	5.5	5.3	5.9	5.8	4.9	4.8	4.7	4.3	3.9	4.3	4.6
83.5°	5.0	4.8	5.4	5.3	4.4	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	2.9	2.5	2.9	3.3
85°	3.5	3.4	4.0	4.0	3.1	3.0	2.9	2.5	2.2	2.6	2.8
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	1.1	1.2
87.5°	1.5	1.4	1.9	1.7	1.0	0.9	0.9	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: P640205  
 CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.0	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°	0.1	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	0.0	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	0.0	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	0.0	0.0	0.1	0.1	0.1	0.0
102°	0.1	0.1	0.1	0.1	0.1	0.0	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	0.0
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: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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°	0.2	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	0.1	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	0.1	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: P640205  
 CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.3	0.2	0.2
148°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
148.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.2	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°	0.3	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.3	0.3	0.2	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: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.2	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: P640205  
CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	525.8	525.8	525.8	525.8	525.8	525.8
0.5°	525.7	525.8	525.9	525.8	525.8	525.9
1°	525.5	525.8	525.8	525.8	525.8	525.9
1.5°	525.3	525.7	525.7	525.7	525.8	525.8
2°	524.9	525.5	525.5	525.5	525.6	525.8
2.5°	524.6	525.2	525.3	525.3	525.4	525.6
3°	524.1	524.9	525.0	525.0	525.1	525.4
3.5°	523.6	524.5	524.6	524.7	524.7	525.1
4°	523.0	524.1	524.2	524.3	524.3	524.7
4.5°	522.4	523.6	523.7	523.8	523.8	524.2
5°	521.7	523.0	523.2	523.2	523.3	523.7
5.5°	520.9	522.4	522.6	522.6	522.7	523.2
6°	520.0	521.7	521.9	522.0	522.0	522.6
6.5°	519.2	520.9	521.2	521.3	521.3	521.9
7°	518.2	520.1	520.4	520.5	520.5	521.2
7.5°	517.1	519.2	519.5	519.6	519.6	520.4
8°	516.0	518.3	518.6	518.7	518.7	519.5
8.5°	515.0	517.3	517.6	517.7	517.7	518.6
9°	513.8	516.3	516.6	516.7	516.7	517.5
9.5°	512.6	515.1	515.5	515.6	515.6	516.5
10°	511.2	513.9	514.3	514.4	514.5	515.3
10.5°	509.8	512.6	513.1	513.2	513.2	514.1
11°	508.3	511.4	511.8	511.9	511.9	512.8
11.5°	506.8	509.9	510.5	510.5	510.6	511.6
12°	505.3	508.5	509.1	509.1	509.2	510.2
12.5°	503.7	507.1	507.6	507.7	507.7	508.8
13°	502.0	505.5	506.1	506.1	506.1	507.3
13.5°	500.2	503.9	504.4	504.5	504.5	505.7
14°	498.4	502.2	502.8	502.9	502.8	504.1
14.5°	496.5	500.4	501.1	501.1	501.0	502.4
15°	494.5	498.6	499.3	499.4	499.2	500.6
15.5°	492.5	496.7	497.4	497.5	497.3	498.7
16°	490.4	494.8	495.6	495.6	495.5	496.9
16.5°	488.3	492.8	493.6	493.6	493.5	494.9
17°	486.1	490.8	491.6	491.5	491.5	492.9
17.5°	483.8	488.6	489.4	489.4	489.3	490.9
18°	481.5	486.5	487.3	487.2	487.2	488.7
18.5°	479.1	484.1	485.0	485.0	484.9	486.5
19°	476.7	481.9	482.8	482.8	482.7	484.2
19.5°	474.1	479.5	480.5	480.5	480.3	481.9
20°	471.6	477.1	478.1	478.1	477.8	479.6
20.5°	468.9	474.6	475.7	475.6	475.3	477.1
21°	466.3	472.1	473.1	473.1	472.7	474.6
21.5°	463.5	469.4	470.5	470.5	470.2	472.0
22°	460.8	466.8	467.9	467.8	467.5	469.4

TEST NUMBER: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	457.8	464.1	465.2	465.2	464.9	466.7
23°	454.9	461.4	462.4	462.4	462.1	464.0
23.5°	451.9	458.5	459.6	459.6	459.2	461.2
24°	448.9	455.5	456.7	456.6	456.3	458.3
24.5°	445.7	452.5	453.7	453.7	453.4	455.4
25°	442.6	449.6	450.8	450.7	450.3	452.4
25.5°	439.4	446.6	447.7	447.7	447.3	449.3
26°	436.1	443.4	444.6	444.6	444.1	446.3
26.5°	432.8	440.2	441.4	441.4	440.9	443.2
27°	429.4	437.0	438.2	438.2	437.6	439.9
27.5°	425.9	433.7	435.0	434.9	434.4	436.6
28°	422.4	430.4	431.6	431.6	431.0	433.3
28.5°	419.0	426.9	428.2	428.2	427.7	429.8
29°	415.3	423.4	424.8	424.7	424.0	426.4
29.5°	411.5	419.9	421.3	421.2	420.6	422.9
30°	408.0	416.4	417.8	417.7	417.1	419.4
30.5°	404.1	412.7	414.2	414.1	413.5	415.8
31°	400.3	409.0	410.5	410.4	409.7	412.2
31.5°	396.5	405.3	406.9	406.6	406.1	408.4
32°	392.5	401.5	403.1	402.9	402.3	404.7
32.5°	388.6	397.7	399.3	399.0	398.5	400.8
33°	384.5	393.9	395.3	395.1	394.6	397.1
33.5°	380.6	389.9	391.4	391.2	390.6	393.2
34°	376.4	385.9	387.6	387.2	386.6	389.2
34.5°	372.1	381.8	383.5	383.2	382.6	385.3
35°	368.1	377.8	379.3	379.1	378.5	381.1
35.5°	363.8	373.6	375.3	375.0	374.4	376.9
36°	359.4	369.5	371.0	370.8	370.2	372.8
36.5°	355.1	365.1	366.9	366.6	366.0	368.7
37°	350.8	360.9	362.5	362.3	361.6	364.4
37.5°	346.2	356.5	358.3	358.0	357.3	360.0
38°	341.8	352.1	353.8	353.6	352.9	355.7
38.5°	337.4	347.7	349.5	349.2	348.5	351.3
39°	333.0	343.3	345.0	344.8	344.0	346.8
39.5°	328.2	338.8	340.6	340.3	339.5	342.4
40°	323.7	334.3	336.0	335.8	334.9	337.8
40.5°	319.1	329.8	331.5	331.4	330.4	333.2
41°	314.5	325.2	327.0	326.7	325.9	328.6
41.5°	309.8	320.6	322.4	322.2	321.3	324.1
42°	304.9	316.1	317.8	317.6	316.7	319.3
42.5°	299.8	311.3	313.2	312.9	311.9	314.6
43°	294.6	306.4	308.2	308.0	306.8	309.7
43.5°	289.2	301.1	303.0	302.7	301.6	304.5
44°	283.8	295.8	297.7	297.4	296.2	299.1
44.5°	278.1	290.5	292.4	292.0	290.8	293.6



TEST NUMBER: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	272.5	285.0	286.8	286.6	285.1	288.1
45.5°	266.9	279.5	281.3	281.0	279.5	282.5
46°	261.3	274.0	275.7	275.4	273.8	276.9
46.5°	255.5	268.1	270.0	269.6	268.1	271.2
47°	249.8	262.4	264.3	263.9	262.3	265.4
47.5°	244.0	256.7	258.4	258.1	256.5	259.6
48°	238.4	251.0	252.7	252.3	250.7	253.8
48.5°	232.5	245.3	246.9	246.5	245.0	248.1
49°	226.8	239.4	241.1	240.6	239.2	242.1
49.5°	221.2	233.8	235.4	234.8	233.4	236.4
50°	215.2	228.0	229.5	228.9	227.5	230.6
50.5°	209.6	222.2	223.6	223.2	221.7	224.8
51°	203.9	216.6	218.0	217.4	215.9	218.9
51.5°	198.3	210.9	212.3	211.6	210.2	213.2
52°	192.6	205.1	206.6	205.9	204.4	207.7
52.5°	187.2	199.5	200.7	200.2	198.8	202.0
53°	181.6	193.9	195.1	194.5	193.1	196.2
53.5°	176.0	188.3	189.5	188.8	187.4	190.7
54°	170.6	182.7	183.9	183.2	181.9	185.1
54.5°	165.3	177.3	178.3	177.7	176.4	179.5
55°	159.8	171.8	172.9	172.2	170.9	174.1
55.5°	154.6	166.4	167.4	166.8	165.5	168.7
56°	149.2	161.0	162.1	161.4	160.1	163.3
56.5°	144.2	155.6	156.7	156.0	154.7	158.0
57°	139.1	150.4	151.4	150.6	149.5	152.7
57.5°	134.0	145.2	146.2	145.3	144.3	147.4
58°	129.1	140.2	141.0	140.3	139.2	142.2
58.5°	124.1	135.0	135.9	135.1	134.1	137.2
59°	119.2	129.9	131.0	130.1	129.1	132.2
59.5°	114.5	125.1	125.9	125.0	124.2	127.1
60°	109.8	120.2	121.1	120.2	119.3	122.2
60.5°	105.2	115.2	116.3	115.2	114.3	117.5
61°	100.6	110.6	111.5	110.5	109.7	112.7
61.5°	96.2	105.9	106.8	105.9	105.2	107.9
62°	91.7	101.3	102.3	101.4	100.6	103.5
62.5°	87.4	96.7	97.6	96.7	96.0	98.7
63°	83.4	92.3	93.2	92.4	91.6	94.4
63.5°	79.3	87.9	88.7	87.9	87.2	89.9
64°	75.2	83.6	84.5	83.6	83.0	85.7
64.5°	71.1	79.4	80.3	79.5	78.8	81.2
65°	67.0	75.3	76.1	75.4	74.7	76.9
65.5°	63.2	71.3	72.0	71.3	70.7	72.6
66°	59.6	67.2	68.0	67.3	66.7	68.4
66.5°	55.9	63.4	64.1	63.5	62.9	64.0
67°	52.4	59.6	60.3	59.8	59.1	59.9



TEST NUMBER: P640205  
 CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	49.0	56.0	56.6	56.2	55.4	55.9
68°	45.7	52.4	53.0	52.6	51.8	52.2
68.5°	42.5	48.9	49.6	49.1	48.2	48.5
69°	39.4	45.6	46.2	45.8	44.8	45.2
69.5°	36.5	42.3	42.9	42.6	41.5	41.9
70°	33.7	39.2	39.8	39.6	38.4	38.8
70.5°	31.0	36.2	36.8	36.7	35.4	35.9
71°	28.5	33.2	34.0	33.8	33.0	33.0
71.5°	26.1	30.8	31.6	31.4	30.5	30.5
72°	23.9	28.4	29.2	29.0	28.1	28.1
72.5°	21.8	26.0	26.8	26.7	25.6	25.6
73°	20.0	23.6	24.4	24.3	23.1	23.2
73.5°	18.3	21.5	22.0	21.9	21.1	21.1
74°	16.8	19.7	20.1	20.0	19.3	19.2
74.5°	15.4	18.0	18.4	18.3	17.6	17.4
75°	14.2	16.6	16.8	16.7	16.1	16.1
75.5°	13.3	15.3	15.5	15.4	14.8	14.8
76°	12.7	14.1	14.3	14.2	13.7	13.7
76.5°	12.1	13.3	13.4	13.3	12.9	12.9
77°	11.5	12.6	12.8	12.6	12.2	12.3
77.5°	10.9	12.0	12.1	12.0	11.6	11.7
78°	10.3	11.4	11.5	11.4	10.9	11.0
78.5°	9.7	10.8	11.0	10.8	10.3	10.4
79°	9.2	10.3	10.4	10.3	9.7	9.8
79.5°	8.6	9.7	9.8	9.7	9.1	9.3
80°	8.1	9.1	9.2	9.1	8.6	8.7
80.5°	7.6	8.6	8.7	8.6	8.0	8.1
81°	7.0	8.0	8.1	8.0	7.5	7.6
81.5°	6.5	7.5	7.6	7.5	6.9	7.0
82°	6.0	7.0	7.1	6.9	6.4	6.5
82.5°	5.5	6.5	6.6	6.4	5.9	6.0
83°	5.0	6.0	6.1	5.9	5.3	5.5
83.5°	4.6	5.5	5.6	5.4	4.8	5.0
84°	4.1	5.0	5.1	4.9	4.3	4.5
84.5°	3.6	4.5	4.6	4.5	3.9	4.0
85°	3.2	4.1	4.1	4.0	3.4	3.5
85.5°	2.7	3.6	3.7	3.5	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	2.2	1.8	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: P640205  
 CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.0
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: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.2
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	0.1	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: P640205  
 CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.2
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	0.3
153.5°	0.3	0.2	0.2	0.2	0.2	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	0.2	0.3	0.3



TEST NUMBER: P640205

CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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	0.2	0.3	0.3	0.3
159.5°	0.3	0.2	0.2	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	0.2	0.3	0.3	0.3	0.3
163°	0.3	0.2	0.3	0.3	0.3	0.3
163.5°	0.3	0.2	0.3	0.3	0.3	0.3
164°	0.3	0.2	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: P640205  
CATALOG NUMBER: LCR810RD9FSE020-12W-3500K

**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)