

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: P640183

Luminaire Tested: LCR412RD9FSE020-14W-5000K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2208055C001)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: LCR412RD9FSE020-14W-5000K  
Description: LCR 4  
Light Source: 5000K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

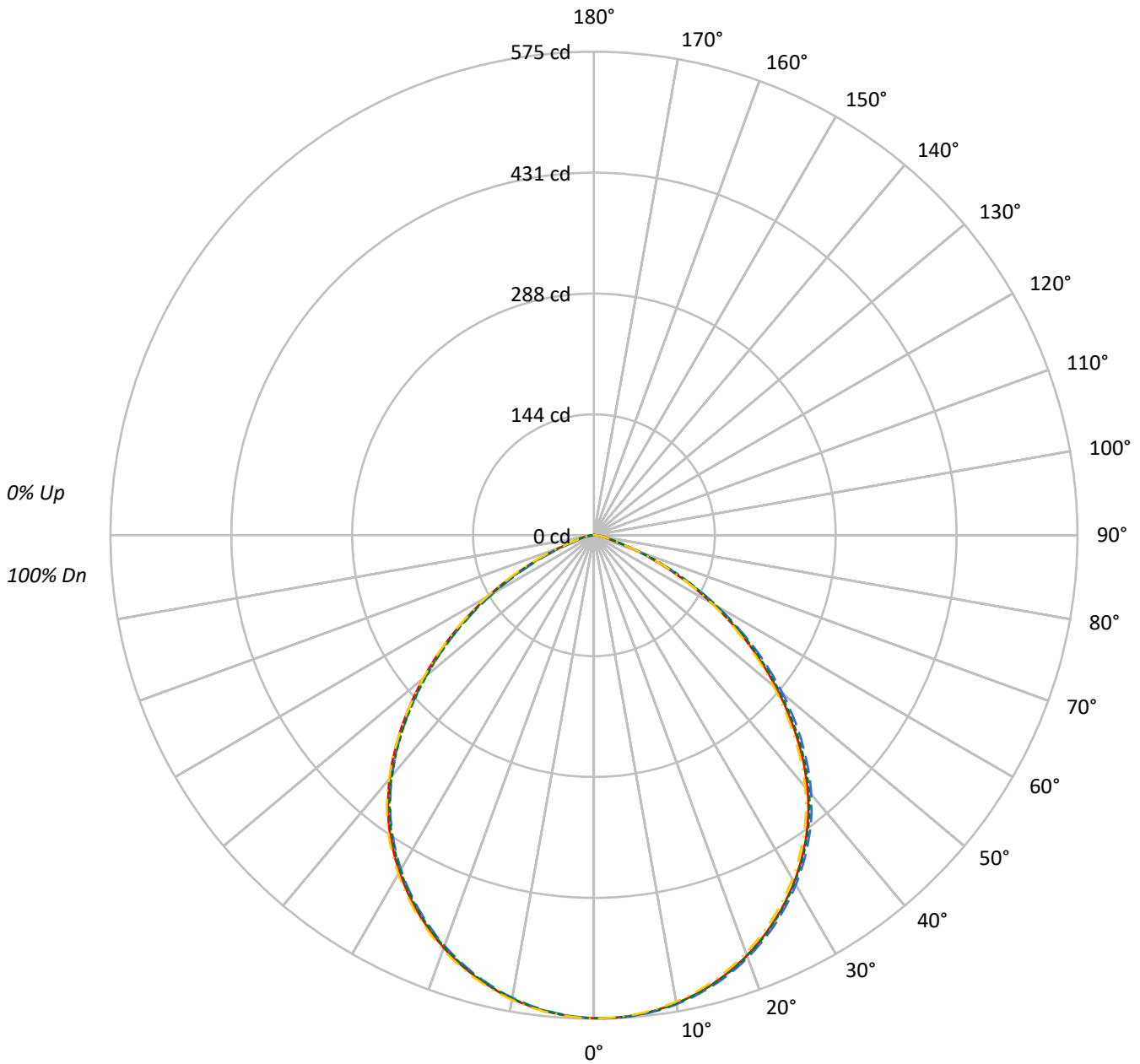
Lumens per Lamp: N/A  
Luminaire Lumens: 1285.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.3  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P640183  
CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

### 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	47	47	47	45
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	42	42	42	40
8	64	52	44	38	63	51	44	38	50	43	38	49	42	38	47	42	38	38	38	38	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	34	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	31	31	29

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

	0°	90°	180°	270°
0°	70850	70850	70850	70850
5°	70935	70935	70600	70563
10°	70778	70815	70127	70039
15°	70412	70463	69442	69327
20°	69818	69871	68519	68374
25°	68974	69069	67354	67137
30°	67810	67952	65887	65602
35°	66194	66420	63905	63529
40°	63634	64068	60880	60236
45°	59640	60181	56500	55611
50°	54440	55092	50909	49892
55°	48020	48859	44128	43138
60°	40161	41321	35869	35030
65°	30499	32105	26034	25304
70°	19258	21133	15255	14570
75°	10389	11342	9293	8960
80°	9163	9802	7956	7529
85°	8208	9057	5944	5236

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 61123 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	4.2
10°-20°	154.4	12.0
20°-30°	230.5	17.9
30°-40°	269.3	21.0
40°-50°	255.6	19.9
50°-60°	191.1	14.9
60°-70°	97.3	7.6
70°-80°	25.7	2.0
80°-90°	5.8	0.5
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	439.1	34.2
0°-40°	708.3	55.1
0°-60°	1155.0	89.9
0°-90°	1283.9	99.9
90°-120°	0.3	0.0
90°-150°	0.9	0.1
90°-180°	1.0	0.1
0°-180°	1285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	574	574	574	574	574	
5°	573	573	570	570	573	54
15°	551	552	544	543	551	156
25°	507	508	495	493	507	233
35°	440	441	424	422	440	274
45°	342	345	324	319	342	263
55°	223	227	205	201	223	199
65°	104	110	89	87	104	104
75°	22	24	20	19	22	28
85°	6	6	4	4	6	6
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°	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4	574.4
0.5°	574.5	574.6	574.6	574.6	574.5	574.5	574.4	574.3	574.2	574.3	574.2
1°	574.6	574.7	574.7	574.7	574.6	574.6	574.4	574.2	574.0	574.0	573.9
1.5°	574.6	574.7	574.8	574.8	574.7	574.5	574.3	573.9	573.8	573.5	573.5
2°	574.5	574.7	574.7	574.7	574.6	574.4	574.2	573.7	573.4	573.2	573.1
2.5°	574.4	574.6	574.7	574.6	574.4	574.3	574.0	573.3	573.0	572.6	572.6
3°	574.1	574.4	574.5	574.5	574.2	574.0	573.6	572.9	572.6	572.2	572.0
3.5°	573.9	574.3	574.3	574.3	574.0	573.7	573.3	572.5	572.1	571.6	571.4
4°	573.6	573.9	574.1	574.0	573.6	573.5	572.8	571.9	571.5	571.0	570.8
4.5°	573.3	573.6	573.8	573.8	573.3	572.9	572.4	571.2	570.9	570.3	570.1
5°	572.9	573.1	573.4	573.3	572.9	572.5	571.7	570.6	570.2	569.5	569.3
5.5°	572.4	572.7	573.1	573.0	572.4	571.9	571.2	569.9	569.5	568.7	568.6
6°	571.8	572.2	572.5	572.4	571.8	571.4	570.7	569.1	568.6	567.9	567.6
6.5°	571.1	571.6	572.0	571.9	571.2	570.7	569.9	568.3	567.7	567.0	566.7
7°	570.5	571.0	571.4	571.3	570.6	570.0	569.2	567.4	566.7	566.0	565.8
7.5°	569.8	570.2	570.6	570.6	569.9	569.2	568.3	566.5	565.7	564.9	564.7
8°	568.9	569.6	570.0	569.9	569.1	568.4	567.4	565.4	564.6	563.8	563.4
8.5°	568.0	568.8	569.2	569.1	568.3	567.5	566.4	564.3	563.5	562.7	562.2
9°	567.1	567.9	568.3	568.3	567.4	566.5	565.4	563.2	562.4	561.4	561.0
9.5°	566.1	566.9	567.4	567.3	566.4	565.6	564.4	562.0	561.1	560.3	559.7
10°	565.1	566.0	566.4	566.3	565.4	564.5	563.2	560.8	559.9	558.9	558.4
10.5°	564.0	564.8	565.4	565.3	564.2	563.3	562.1	559.5	558.4	557.5	557.0
11°	562.9	563.7	564.3	564.1	563.1	562.2	560.7	558.3	557.1	556.1	555.6
11.5°	561.6	562.5	563.1	563.0	561.9	560.9	559.5	556.7	555.7	554.5	554.1
12°	560.4	561.2	561.9	561.8	560.7	559.6	558.2	555.2	554.0	552.9	552.3
12.5°	559.0	560.0	560.6	560.4	559.2	558.3	556.6	553.8	552.4	551.3	550.6
13°	557.6	558.6	559.3	559.2	558.0	556.9	555.3	552.1	550.8	549.8	549.0
13.5°	556.2	557.3	557.8	557.8	556.5	555.4	553.7	550.5	549.1	547.8	547.1
14°	554.6	555.8	556.5	556.3	554.9	553.8	552.1	548.8	547.4	546.1	545.5
14.5°	553.1	554.2	555.0	554.9	553.5	552.2	550.5	547.1	545.6	544.4	543.5
15°	551.4	552.7	553.5	553.2	551.8	550.5	548.7	545.2	543.8	542.4	541.7
15.5°	549.6	550.9	551.8	551.7	550.1	548.7	547.0	543.3	541.8	540.4	539.7
16°	547.9	549.3	550.1	550.0	548.4	547.1	545.0	541.4	539.8	538.5	537.6
16.5°	546.1	547.5	548.4	548.2	546.6	545.2	543.3	539.4	537.8	536.3	535.5
17°	544.4	545.8	546.6	546.3	544.7	543.4	541.3	537.3	535.8	534.2	533.3
17.5°	542.5	543.9	544.7	544.5	542.9	541.4	539.2	535.1	533.6	532.1	531.2
18°	540.4	542.1	542.8	542.7	540.8	539.4	537.3	533.0	531.4	529.8	529.0
18.5°	538.3	540.1	540.9	540.6	538.8	537.3	535.2	530.8	529.1	527.4	526.6
19°	536.3	537.9	538.9	538.7	536.8	535.2	532.9	528.4	526.9	525.2	524.3
19.5°	534.2	535.8	536.7	536.6	534.7	533.0	530.8	526.3	524.5	522.7	521.8
20°	531.9	533.6	534.6	534.4	532.3	530.7	528.5	523.8	522.0	520.4	519.4
20.5°	529.6	531.5	532.4	532.2	530.1	528.5	526.2	521.4	519.7	517.8	516.9
21°	527.4	529.2	530.1	530.0	527.9	526.2	523.8	518.9	517.0	515.2	514.3
21.5°	524.9	526.8	527.8	527.7	525.6	523.8	521.4	516.4	514.5	512.6	511.8
22°	522.5	524.5	525.4	525.3	523.2	521.3	518.9	513.8	511.9	510.0	508.9

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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°	520.0	522.0	523.1	522.8	520.7	518.8	516.3	511.1	509.2	507.2	506.2
23°	517.3	519.5	520.6	520.5	518.2	516.2	513.8	508.5	506.4	504.5	503.5
23.5°	514.8	517.0	518.0	517.9	515.6	513.5	511.0	505.8	503.6	501.7	500.6
24°	512.2	514.3	515.5	515.4	512.8	510.9	508.4	503.0	500.8	498.8	497.7
24.5°	509.6	511.7	512.9	512.7	510.2	508.2	505.5	500.1	497.9	495.9	494.7
25°	506.8	509.0	510.1	510.0	507.5	505.3	502.7	497.1	494.9	492.9	491.8
25.5°	503.9	506.2	507.3	507.2	504.7	502.6	499.9	494.2	492.0	489.9	488.7
26°	501.1	503.4	504.5	504.4	501.9	499.6	496.9	491.2	489.0	486.8	485.6
26.5°	498.2	500.4	501.7	501.6	498.9	496.7	493.9	488.1	485.8	483.6	482.5
27°	495.2	497.6	498.7	498.6	496.0	493.6	490.9	485.1	482.7	480.5	479.3
27.5°	492.2	494.6	495.9	495.7	493.0	490.7	487.9	481.8	479.5	477.2	476.1
28°	489.1	491.5	492.7	492.6	489.9	487.6	484.7	478.6	476.2	474.0	472.8
28.5°	485.9	488.4	489.7	489.6	486.8	484.5	481.5	475.3	472.9	470.5	469.4
29°	482.7	485.3	486.6	486.5	483.5	481.3	478.3	472.0	469.5	467.3	466.0
29.5°	479.5	482.0	483.4	483.3	480.4	478.0	475.0	468.6	466.1	463.9	462.4
30°	476.1	478.8	480.2	480.1	477.1	474.7	471.7	465.1	462.6	460.2	458.9
30.5°	472.8	475.5	476.9	476.8	473.8	471.3	468.3	461.6	458.9	456.7	455.3
31°	469.3	472.1	473.6	473.5	470.4	467.9	464.7	458.0	455.3	453.1	451.6
31.5°	465.8	468.6	470.1	470.1	467.0	464.4	461.2	454.6	451.8	449.4	447.9
32°	462.1	465.2	466.7	466.6	463.4	460.8	457.7	450.8	448.1	445.6	444.2
32.5°	458.5	461.6	463.2	463.0	459.9	457.3	454.0	446.9	444.3	441.7	440.4
33°	454.9	458.0	459.5	459.5	456.2	453.6	450.2	443.2	440.5	437.9	436.5
33.5°	451.2	454.3	456.0	455.8	452.5	449.9	446.4	439.4	436.5	434.1	432.6
34°	447.4	450.5	452.2	452.1	448.7	446.1	442.7	435.3	432.5	430.1	428.6
34.5°	443.6	446.8	448.5	448.3	444.9	442.2	438.8	431.4	428.6	426.0	424.5
35°	439.6	442.9	444.6	444.5	441.1	438.4	434.9	427.4	424.4	421.9	420.3
35.5°	435.6	439.0	440.6	440.6	437.2	434.3	430.8	423.3	420.3	417.7	416.0
36°	431.5	435.0	436.7	436.6	433.3	430.3	426.8	419.0	415.9	413.3	411.6
36.5°	427.5	431.0	432.8	432.6	429.2	426.4	422.7	414.6	411.5	408.9	407.0
37°	423.2	426.8	428.7	428.6	425.1	422.0	418.4	410.2	407.1	404.3	402.5
37.5°	418.8	422.5	424.4	424.5	420.7	417.7	413.9	405.6	402.5	399.8	397.9
38°	414.3	418.1	420.1	420.1	416.3	413.3	409.4	401.0	397.8	395.0	393.2
38.5°	409.6	413.6	415.6	415.5	411.8	408.8	404.7	396.1	393.0	390.1	388.4
39°	404.9	409.0	411.0	411.3	407.4	404.2	400.2	391.5	388.2	385.4	383.4
39.5°	400.2	404.4	406.6	406.7	402.7	399.3	395.3	386.4	383.2	380.4	378.6
40°	395.2	399.5	401.9	402.1	397.9	394.5	390.3	381.2	378.1	375.3	373.5
40.5°	390.3	394.8	397.2	397.0	393.0	389.4	385.1	376.1	373.0	370.2	368.3
41°	385.0	389.6	392.3	392.3	388.0	384.4	380.1	370.9	367.7	365.1	363.1
41.5°	380.0	384.7	387.3	387.4	382.9	379.2	374.7	365.5	362.5	359.8	357.7
42°	374.7	379.5	382.4	382.3	377.7	373.8	369.5	360.0	357.1	354.3	352.3
42.5°	369.5	374.5	377.3	377.1	372.3	368.5	364.0	354.5	351.7	349.0	347.1
43°	364.1	369.1	371.9	372.0	367.1	363.0	358.4	349.0	346.2	343.6	341.5
43.5°	358.6	363.9	366.7	366.6	361.6	357.5	352.9	343.5	340.7	338.1	336.0
44°	353.1	358.4	361.3	361.3	356.1	351.9	347.4	337.9	335.0	332.5	330.5
44.5°	347.6	353.1	355.9	355.8	350.6	346.3	341.7	332.2	329.5	326.9	324.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	341.9	347.5	350.4	350.4	345.0	340.7	336.1	326.5	323.9	321.3	319.2
45.5°	336.2	342.0	345.0	344.9	339.3	335.0	330.4	320.8	318.0	315.6	313.6
46°	330.6	336.2	339.5	339.2	333.7	329.4	324.7	315.1	312.4	310.0	307.7
46.5°	324.9	330.7	333.9	333.6	328.0	323.5	319.0	309.2	306.5	304.1	301.9
47°	319.1	324.9	328.3	327.9	322.2	317.9	313.2	303.5	300.7	298.3	296.1
47.5°	313.2	319.3	322.5	322.3	316.2	312.0	307.4	297.7	295.0	292.5	290.2
48°	307.4	313.3	316.6	316.5	310.5	306.2	301.6	291.9	289.0	286.6	284.4
48.5°	301.5	307.5	310.9	310.6	304.8	300.5	295.7	286.0	283.2	280.8	278.4
49°	295.6	301.6	305.0	304.6	298.9	294.5	289.9	280.1	277.2	274.7	272.4
49.5°	289.7	295.8	299.2	298.8	292.9	288.6	284.1	274.2	271.3	268.7	266.5
50°	283.7	289.8	293.3	292.9	287.1	282.8	278.3	268.3	265.3	262.8	260.4
50.5°	277.7	283.9	287.2	286.9	281.0	276.9	272.2	262.3	259.2	256.7	254.4
51°	271.8	277.8	281.3	280.9	275.1	271.1	266.5	256.6	253.4	250.7	248.3
51.5°	265.8	271.7	275.2	274.9	269.1	265.2	260.6	250.6	247.3	244.5	242.2
52°	259.8	265.7	269.2	268.9	263.3	259.3	254.8	244.6	241.3	238.5	236.2
52.5°	253.7	259.6	263.0	262.8	257.1	253.3	248.9	238.7	235.3	232.4	230.0
53°	247.7	253.5	257.0	256.7	251.1	247.5	242.8	232.8	229.2	226.2	223.9
53.5°	241.6	247.2	250.8	250.6	245.3	241.4	236.9	226.9	223.2	220.2	217.7
54°	235.6	241.1	244.6	244.5	239.2	235.5	231.1	220.8	217.1	213.9	211.5
54.5°	229.4	234.9	238.4	238.4	233.1	229.6	225.2	215.0	211.2	207.9	205.5
55°	223.3	228.8	232.2	232.4	227.2	223.8	219.4	209.0	205.2	201.7	199.3
55.5°	217.3	222.6	226.0	226.1	221.1	217.8	213.4	203.2	199.0	195.5	193.0
56°	211.2	216.4	219.7	219.9	215.2	211.9	207.5	197.3	193.1	189.4	186.9
56.5°	205.2	210.2	213.5	213.9	209.2	206.0	201.8	191.3	187.1	183.2	180.7
57°	199.1	204.0	207.2	207.7	203.1	200.1	196.0	185.4	181.1	177.1	174.6
57.5°	192.9	197.6	200.9	201.4	197.1	194.2	190.1	179.6	175.1	170.9	168.5
58°	186.9	191.5	194.6	195.4	191.2	188.4	184.2	173.7	169.2	164.9	162.3
58.5°	180.9	185.3	188.5	189.4	185.3	182.6	178.5	168.0	163.1	159.0	156.2
59°	174.8	179.2	182.3	183.1	179.3	176.6	172.6	162.1	157.2	152.7	150.3
59.5°	168.7	172.8	175.9	176.9	173.4	170.9	167.0	156.2	151.3	146.7	144.0
60°	162.8	166.7	169.7	171.0	167.5	165.1	161.1	150.6	145.4	140.8	138.1
60.5°	156.8	160.6	163.5	164.9	161.6	159.4	155.4	144.9	139.5	135.0	132.2
61°	150.8	154.4	157.2	158.7	155.8	153.6	149.6	139.0	133.7	128.9	126.3
61.5°	145.0	148.4	151.1	152.7	149.8	147.8	144.1	133.4	128.0	123.1	120.4
62°	139.1	142.2	145.0	146.8	144.1	142.3	138.5	127.9	122.3	117.3	114.7
62.5°	133.2	136.3	138.9	140.8	138.3	136.6	132.8	122.2	116.5	111.5	108.7
63°	127.3	130.3	132.8	134.9	132.5	130.8	127.2	116.5	110.9	105.7	103.2
63.5°	121.6	124.3	126.8	128.9	126.8	125.2	121.7	111.1	105.3	100.2	97.6
64°	115.8	118.4	120.9	123.1	121.1	119.7	116.1	105.6	99.8	94.7	92.1
64.5°	110.1	112.6	115.1	117.3	115.5	114.3	110.7	100.1	94.5	89.4	86.9
65°	104.5	106.8	109.2	111.6	110.0	108.8	105.3	94.9	89.2	84.2	81.8
65.5°	99.0	101.2	103.5	106.0	104.5	103.4	100.0	89.6	84.1	79.1	76.6
66°	93.5	95.5	97.7	100.2	99.2	98.0	94.7	84.6	79.0	73.9	71.4
66.5°	88.1	90.0	92.2	94.7	93.6	92.8	89.4	79.5	73.9	68.7	66.2
67°	82.7	84.5	86.8	89.3	88.4	87.7	84.4	74.4	68.7	63.9	61.6





TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	77.5	79.3	81.3	83.9	83.3	82.7	79.4	69.3	63.8	59.2	56.9
68°	72.5	74.1	76.2	78.6	78.2	77.6	74.3	64.6	59.2	54.7	52.6
68.5°	67.5	69.0	71.1	73.5	73.1	72.5	69.3	60.0	54.7	50.5	48.4
69°	62.7	64.1	66.1	68.6	68.0	67.5	64.6	55.4	50.4	46.3	44.4
69.5°	57.9	59.4	61.3	63.7	63.1	62.9	59.9	51.0	46.3	42.5	40.7
70°	53.4	54.8	56.6	58.9	58.6	58.1	55.4	46.8	42.3	38.9	37.3
70.5°	49.1	50.5	52.3	54.5	54.0	53.7	50.9	42.9	38.7	35.7	34.2
71°	44.9	46.3	48.0	50.0	49.6	49.4	46.8	39.2	35.3	32.6	31.2
71.5°	40.9	42.4	44.0	45.9	45.4	45.2	42.8	35.6	32.3	29.8	28.7
72°	37.3	38.7	40.3	42.0	41.5	41.2	39.0	32.4	29.5	27.4	26.4
72.5°	33.8	35.3	36.7	38.3	37.7	37.6	35.6	29.6	27.0	25.3	24.4
73°	31.4	32.8	33.4	34.9	34.2	34.0	32.3	27.0	24.9	23.4	22.6
73.5°	29.0	30.2	30.9	32.4	31.1	30.9	29.4	24.8	23.0	21.8	21.2
74°	26.6	27.7	28.5	29.9	28.3	28.1	26.8	22.9	21.6	20.6	20.1
74.5°	24.2	25.2	26.1	27.5	25.9	25.7	24.6	21.5	20.4	19.6	19.2
75°	21.8	22.7	23.7	25.0	23.8	23.6	22.7	20.3	19.5	18.8	18.4
75.5°	20.5	21.2	22.0	22.6	22.0	21.9	21.2	19.4	18.6	17.9	17.5
76°	19.5	19.9	20.6	21.1	20.7	20.6	20.1	18.5	17.7	17.1	16.7
76.5°	18.6	19.0	19.5	19.9	19.7	19.6	19.2	17.6	16.9	16.2	15.8
77°	17.8	18.2	18.7	19.0	18.8	18.8	18.3	16.7	16.0	15.4	15.0
77.5°	17.0	17.4	17.9	18.2	18.0	17.9	17.4	15.9	15.2	14.6	14.2
78°	16.1	16.6	17.1	17.4	17.1	17.0	16.6	15.0	14.4	13.8	13.4
78.5°	15.3	15.8	16.2	16.6	16.3	16.1	15.7	14.2	13.6	13.0	12.7
79°	14.5	15.0	15.4	15.8	15.4	15.3	14.9	13.4	12.8	12.2	11.9
79.5°	13.8	14.2	14.7	15.0	14.6	14.5	14.0	12.6	12.0	11.5	11.1
80°	12.9	13.4	13.9	14.1	13.8	13.6	13.2	11.8	11.2	10.7	10.4
80.5°	12.2	12.7	13.1	13.4	13.0	12.9	12.4	11.1	10.5	10.0	9.7
81°	11.4	11.9	12.4	12.6	12.2	12.1	11.7	10.3	9.8	9.3	8.9
81.5°	10.7	11.2	11.6	11.8	11.4	11.3	10.9	9.6	9.0	8.6	8.3
82°	9.9	10.4	10.8	11.1	10.7	10.5	10.1	8.8	8.3	7.9	7.6
82.5°	9.2	9.7	10.1	10.3	9.9	9.8	9.4	8.1	7.6	7.2	6.9
83°	8.5	9.0	9.4	9.6	9.2	9.1	8.7	7.4	6.9	6.5	6.2
83.5°	7.8	8.3	8.7	8.9	8.5	8.3	8.0	6.7	6.2	5.8	5.5
84°	7.1	7.6	8.0	8.2	7.8	7.6	7.2	6.0	5.5	5.1	4.8
84.5°	6.5	6.9	7.3	7.5	7.1	6.9	6.5	5.3	4.9	4.4	4.1
85°	5.8	6.2	6.6	6.8	6.4	6.2	5.8	4.7	4.2	3.8	3.5
85.5°	5.1	5.5	5.9	6.1	5.7	5.5	5.1	4.0	3.6	3.2	2.9
86°	4.5	4.9	5.3	5.4	5.0	4.9	4.5	3.4	2.9	2.6	2.3
86.5°	3.8	4.3	4.6	4.8	4.4	4.2	3.8	2.8	2.3	1.9	1.7
87°	3.2	3.6	4.0	4.1	3.7	3.6	3.2	2.2	1.7	1.3	1.1
87.5°	2.6	3.0	3.4	3.5	3.1	2.9	2.6	1.6	1.1	0.8	0.6
88°	2.0	2.4	2.7	2.9	2.5	2.3	2.0	1.0	0.6	0.3	0.2
88.5°	1.4	1.8	2.1	2.3	1.9	1.7	1.4	0.4	0.2	0.1	0.1
89°	0.8	1.2	1.5	1.7	1.3	1.1	0.8	0.1	0.0	0.1	0.1
89.5°	0.3	0.6	0.9	1.0	0.7	0.6	0.3	0.0	0.0	0.1	0.1



TEST NUMBER: P640183  
 CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.4	0.5	0.3	0.2	0.1	0.0	0.0	0.1	0.1
90.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
91°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
91.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
92°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P640183  
 CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**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°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117.5°	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
119.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
121.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
122°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
122.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2
123°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
123.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
124°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
124.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
125°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
125.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
126°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
126.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
128°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
137.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3
138°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3
138.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
139°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
139.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
140.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
141°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
141.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
155.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
156°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
156.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
157°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**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	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
158°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
158.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
159°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640183  
CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	574.4	574.4	574.4	574.4	574.4	574.4
0.5°	574.2	574.3	574.3	574.4	574.5	574.5
1°	573.9	574.0	574.1	574.2	574.5	574.6
1.5°	573.5	573.7	573.9	574.0	574.5	574.6
2°	573.1	573.3	573.5	573.7	574.3	574.5
2.5°	572.6	572.9	573.2	573.3	574.1	574.4
3°	572.2	572.5	572.6	573.1	573.8	574.1
3.5°	571.4	571.9	572.2	572.5	573.4	573.9
4°	570.8	571.3	571.6	572.1	573.1	573.6
4.5°	570.0	570.5	570.9	571.5	572.7	573.3
5°	569.3	569.9	570.4	570.9	572.2	572.9
5.5°	568.4	569.1	569.6	570.3	571.7	572.4
6°	567.5	568.2	568.8	569.4	571.0	571.8
6.5°	566.6	567.4	567.9	568.5	570.2	571.1
7°	565.7	566.4	567.0	567.8	569.5	570.5
7.5°	564.6	565.4	566.0	566.9	568.7	569.8
8°	563.5	564.2	564.9	565.8	567.8	568.9
8.5°	562.2	563.1	563.8	564.7	567.0	568.0
9°	561.0	561.9	562.6	563.7	565.8	567.1
9.5°	559.6	560.7	561.4	562.5	564.9	566.1
10°	558.3	559.2	560.2	561.3	563.8	565.1
10.5°	556.9	557.9	558.7	560.0	562.6	564.0
11°	555.4	556.4	557.4	558.5	561.5	562.9
11.5°	553.9	555.0	555.9	557.2	560.2	561.6
12°	552.3	553.5	554.3	555.6	558.8	560.4
12.5°	550.7	551.8	552.8	554.2	557.3	559.0
13°	549.0	550.2	551.2	552.5	555.9	557.6
13.5°	547.2	548.3	549.4	550.9	554.5	556.2
14°	545.3	546.5	547.7	549.2	552.7	554.6
14.5°	543.4	544.8	545.9	547.4	551.1	553.1
15°	541.6	542.9	544.1	545.7	549.5	551.4
15.5°	539.5	540.9	542.1	543.8	547.8	549.6
16°	537.5	538.9	540.1	541.9	546.0	547.9
16.5°	535.4	536.8	538.1	539.9	544.1	546.1
17°	533.1	534.8	536.1	537.8	542.2	544.4
17.5°	531.0	532.5	533.9	535.7	540.2	542.5
18°	528.7	530.2	531.7	533.5	538.1	540.4
18.5°	526.3	528.0	529.5	531.3	536.0	538.3
19°	524.1	525.6	527.2	529.1	533.9	536.3
19.5°	521.7	523.3	524.8	526.8	531.7	534.2
20°	519.2	520.9	522.4	524.5	529.3	531.9
20.5°	516.6	518.4	519.8	522.0	527.2	529.6
21°	514.1	515.8	517.4	519.6	524.8	527.4
21.5°	511.3	513.1	514.7	517.0	522.1	524.9
22°	508.7	510.4	512.0	514.4	519.8	522.5

TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	506.0	507.7	509.4	511.7	517.2	520.0
23°	503.2	505.1	506.6	509.0	514.6	517.3
23.5°	500.2	502.2	503.8	506.3	512.0	514.8
24°	497.4	499.3	500.8	503.4	509.3	512.2
24.5°	494.4	496.4	498.0	500.5	506.5	509.6
25°	491.5	493.3	495.0	497.8	503.7	506.8
25.5°	488.3	490.3	492.0	494.7	500.8	503.9
26°	485.3	487.2	489.1	491.7	497.9	501.1
26.5°	482.1	484.0	485.9	488.6	495.0	498.2
27°	478.9	480.9	482.7	485.5	491.9	495.2
27.5°	475.6	477.6	479.5	482.2	488.8	492.2
28°	472.3	474.4	476.1	479.0	485.6	489.1
28.5°	468.9	470.9	472.8	475.6	482.3	485.9
29°	465.5	467.5	469.4	472.3	479.2	482.7
29.5°	462.0	464.1	465.9	468.9	475.8	479.5
30°	458.4	460.6	462.4	465.4	472.4	476.1
30.5°	454.7	456.9	458.8	461.8	469.0	472.8
31°	451.1	453.3	455.1	458.1	465.6	469.3
31.5°	447.5	449.6	451.4	454.4	462.0	465.8
32°	443.6	445.9	447.7	450.8	458.3	462.1
32.5°	439.7	441.9	443.9	447.0	454.7	458.5
33°	435.9	438.1	440.0	443.1	451.0	454.9
33.5°	431.8	434.2	436.0	439.3	447.1	451.2
34°	427.9	430.1	432.0	435.3	443.3	447.4
34.5°	423.8	426.1	427.9	431.3	439.3	443.6
35°	419.5	421.9	423.8	427.0	435.4	439.6
35.5°	415.2	417.7	419.4	422.8	431.4	435.6
36°	410.8	413.2	415.0	418.4	427.1	431.5
36.5°	406.2	408.6	410.4	414.0	423.0	427.5
37°	401.6	404.0	405.8	409.5	418.5	423.2
37.5°	397.0	399.3	401.1	404.7	414.0	418.8
38°	392.1	394.4	396.3	399.9	409.3	414.3
38.5°	387.2	389.5	391.3	394.9	404.7	409.6
39°	382.2	384.5	386.2	389.9	399.9	404.9
39.5°	377.1	379.4	381.0	384.7	395.0	400.2
40°	371.8	374.1	375.6	379.3	389.8	395.2
40.5°	366.7	368.9	370.3	374.1	384.7	390.3
41°	361.4	363.4	364.9	368.6	379.3	385.0
41.5°	356.1	358.0	359.3	363.2	374.1	380.0
42°	350.6	352.6	353.8	357.7	368.6	374.7
42.5°	345.3	347.1	348.3	352.1	363.3	369.5
43°	339.7	341.5	342.6	346.6	357.7	364.1
43.5°	334.2	335.8	337.0	340.9	352.2	358.6
44°	328.5	330.1	331.4	335.3	346.7	353.1
44.5°	322.9	324.5	325.6	329.5	341.0	347.6





TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	317.2	318.8	319.9	323.8	335.4	341.9
45.5°	311.4	313.0	314.1	318.1	329.6	336.2
46°	305.7	307.2	308.4	312.3	324.0	330.6
46.5°	299.9	301.4	302.6	306.5	318.1	324.9
47°	293.9	295.6	296.7	300.6	312.3	319.1
47.5°	288.1	289.7	290.8	294.8	306.6	313.2
48°	282.3	283.8	285.1	288.9	300.7	307.4
48.5°	276.3	277.9	279.1	283.1	294.8	301.5
49°	270.4	272.1	273.2	277.3	288.9	295.6
49.5°	264.3	266.0	267.4	271.4	283.1	289.7
50°	258.3	260.0	261.5	265.4	277.2	283.7
50.5°	252.3	254.2	255.6	259.5	271.3	277.7
51°	246.3	248.2	249.5	253.6	265.3	271.8
51.5°	240.4	242.4	243.8	247.7	259.2	265.8
52°	234.2	236.2	237.9	241.9	253.3	259.8
52.5°	228.1	230.2	232.0	235.8	247.4	253.7
53°	222.1	224.5	226.0	230.0	241.4	247.7
53.5°	216.0	218.4	220.2	224.0	235.5	241.6
54°	209.8	212.3	214.1	218.1	229.4	235.6
54.5°	203.9	206.3	208.3	212.3	223.4	229.4
55°	197.8	200.6	202.5	206.4	217.5	223.3
55.5°	191.7	194.6	196.6	200.5	211.5	217.3
56°	185.7	188.7	190.7	194.7	205.6	211.2
56.5°	179.7	182.8	184.9	188.8	199.7	205.2
57°	173.6	176.9	178.9	182.8	193.8	199.1
57.5°	167.7	171.1	173.2	177.1	187.7	192.9
58°	161.9	165.3	167.5	171.3	181.8	186.9
58.5°	155.7	159.3	161.8	165.6	175.9	180.9
59°	149.8	153.5	155.9	159.7	170.1	174.8
59.5°	143.8	147.7	150.2	154.2	164.2	168.7
60°	137.9	142.0	144.5	148.3	158.3	162.8
60.5°	132.1	136.1	138.9	142.6	152.5	156.8
61°	126.4	130.5	133.2	136.9	146.8	150.8
61.5°	120.6	124.8	127.6	131.5	141.0	145.0
62°	114.8	119.2	122.1	125.8	135.2	139.1
62.5°	109.0	113.6	116.5	120.3	129.6	133.2
63°	103.6	108.1	111.1	114.8	124.0	127.3
63.5°	98.0	102.5	105.7	109.4	118.5	121.6
64°	92.7	97.2	100.2	103.9	112.8	115.8
64.5°	87.5	91.9	95.0	98.5	107.2	110.1
65°	82.3	86.7	89.8	93.3	101.9	104.5
65.5°	77.2	81.4	84.7	88.1	96.6	99.0
66°	72.0	76.3	79.5	82.9	91.2	93.5
66.5°	66.8	71.3	74.4	78.0	85.9	88.1
67°	62.1	66.5	69.6	72.9	80.8	82.7



TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	57.4	61.8	64.8	68.0	75.7	77.5
68°	53.0	57.1	60.2	63.3	70.7	72.5
68.5°	48.8	52.7	55.7	58.7	65.9	67.5
69°	44.7	48.4	51.2	54.2	61.0	62.7
69.5°	40.8	44.3	46.9	49.7	56.4	57.9
70°	37.3	40.4	42.9	45.6	51.9	53.4
70.5°	34.1	36.8	39.0	41.6	47.7	49.1
71°	31.1	33.3	35.5	37.9	43.6	44.9
71.5°	28.5	30.9	32.9	34.4	39.6	40.9
72°	26.1	28.4	30.3	31.9	36.0	37.3
72.5°	24.1	25.9	27.7	29.4	33.4	33.8
73°	22.4	23.5	25.1	26.9	30.7	31.4
73.5°	21.0	21.9	22.5	24.4	28.0	29.0
74°	20.0	20.6	21.2	21.9	25.4	26.6
74.5°	19.1	19.7	20.1	20.6	22.7	24.2
75°	18.2	18.8	19.2	19.6	21.1	21.8
75.5°	17.4	17.9	18.3	18.7	20.0	20.5
76°	16.5	17.1	17.4	17.8	19.1	19.5
76.5°	15.7	16.2	16.5	17.0	18.2	18.6
77°	14.9	15.4	15.7	16.1	17.4	17.8
77.5°	14.1	14.6	14.9	15.3	16.5	17.0
78°	13.3	13.7	14.0	14.5	15.7	16.1
78.5°	12.5	12.9	13.2	13.6	14.9	15.3
79°	11.8	12.2	12.4	12.9	14.1	14.5
79.5°	11.0	11.4	11.6	12.0	13.3	13.8
80°	10.2	10.6	10.9	11.3	12.5	12.9
80.5°	9.5	9.9	10.1	10.5	11.7	12.2
81°	8.8	9.2	9.4	9.8	11.0	11.4
81.5°	8.1	8.4	8.7	9.1	10.2	10.7
82°	7.4	7.7	8.0	8.4	9.5	9.9
82.5°	6.7	7.0	7.3	7.7	8.8	9.2
83°	6.0	6.3	6.6	7.0	8.1	8.5
83.5°	5.3	5.7	5.9	6.3	7.3	7.8
84°	4.7	5.0	5.2	5.6	6.7	7.1
84.5°	4.0	4.4	4.6	4.9	6.0	6.5
85°	3.4	3.7	3.9	4.3	5.3	5.8
85.5°	2.8	3.1	3.3	3.6	4.7	5.1
86°	2.2	2.5	2.7	3.0	4.0	4.5
86.5°	1.6	1.9	2.1	2.4	3.4	3.8
87°	1.0	1.3	1.5	1.8	2.8	3.2
87.5°	0.4	0.7	0.9	1.2	2.2	2.6
88°	0.1	0.3	0.4	0.7	1.6	2.0
88.5°	0.1	0.1	0.1	0.2	1.0	1.4
89°	0.1	0.1	0.1	0.1	0.4	0.8
89.5°	0.1	0.1	0.1	0.1	0.1	0.3



TEST NUMBER: P640183  
 CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.1	0.1	0.1	0.1	0.1	0.1
90.5°	0.1	0.1	0.1	0.1	0.1	0.0
91°	0.1	0.1	0.1	0.1	0.1	0.0
91.5°	0.1	0.1	0.1	0.1	0.1	0.0
92°	0.1	0.1	0.1	0.1	0.1	0.0
92.5°	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	0.1	0.1	0.1	0.1
104°	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
105°	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
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: P640183  
 CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**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	0.2	0.1	0.1	0.1	0.1
113.5°	0.1	0.2	0.2	0.1	0.1	0.1
114°	0.1	0.2	0.2	0.1	0.1	0.1
114.5°	0.1	0.2	0.2	0.2	0.1	0.1
115°	0.1	0.2	0.2	0.2	0.1	0.1
115.5°	0.1	0.2	0.2	0.2	0.1	0.1
116°	0.1	0.2	0.2	0.2	0.1	0.1
116.5°	0.1	0.2	0.2	0.2	0.1	0.1
117°	0.1	0.2	0.2	0.2	0.1	0.2
117.5°	0.1	0.2	0.2	0.2	0.2	0.2
118°	0.1	0.2	0.2	0.2	0.2	0.2
118.5°	0.1	0.2	0.2	0.2	0.2	0.2
119°	0.1	0.2	0.2	0.2	0.2	0.2
119.5°	0.1	0.2	0.2	0.2	0.2	0.2
120°	0.1	0.2	0.2	0.2	0.2	0.2
120.5°	0.2	0.2	0.2	0.2	0.2	0.2
121°	0.2	0.2	0.2	0.2	0.2	0.2
121.5°	0.2	0.2	0.2	0.2	0.2	0.2
122°	0.2	0.2	0.2	0.2	0.2	0.2
122.5°	0.2	0.2	0.2	0.2	0.2	0.2
123°	0.2	0.2	0.2	0.2	0.2	0.2
123.5°	0.2	0.2	0.2	0.2	0.2	0.2
124°	0.2	0.2	0.2	0.2	0.2	0.2
124.5°	0.2	0.2	0.2	0.2	0.2	0.2
125°	0.2	0.2	0.2	0.2	0.2	0.2
125.5°	0.2	0.2	0.2	0.2	0.2	0.2
126°	0.2	0.2	0.2	0.2	0.2	0.2
126.5°	0.2	0.2	0.2	0.2	0.2	0.2
127°	0.2	0.2	0.2	0.2	0.2	0.2
127.5°	0.2	0.2	0.2	0.2	0.2	0.2
128°	0.2	0.2	0.2	0.2	0.2	0.2
128.5°	0.2	0.2	0.2	0.2	0.2	0.2
129°	0.2	0.2	0.2	0.2	0.2	0.2
129.5°	0.2	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	0.3	0.2	0.2	0.2	0.2
131.5°	0.2	0.3	0.2	0.3	0.2	0.2
132°	0.2	0.3	0.2	0.3	0.2	0.2
132.5°	0.2	0.3	0.3	0.3	0.2	0.2
133°	0.2	0.3	0.3	0.3	0.2	0.2
133.5°	0.2	0.3	0.3	0.3	0.2	0.3
134°	0.2	0.3	0.3	0.3	0.2	0.3
134.5°	0.2	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640183  
 CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.3	0.3	0.3	0.3	0.3
135.5°	0.2	0.3	0.3	0.3	0.3	0.3
136°	0.2	0.3	0.3	0.3	0.3	0.3
136.5°	0.3	0.3	0.3	0.3	0.3	0.3
137°	0.3	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3	0.3
138°	0.3	0.3	0.3	0.3	0.3	0.3
138.5°	0.3	0.3	0.3	0.3	0.3	0.3
139°	0.3	0.3	0.3	0.3	0.3	0.3
139.5°	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3	0.3
140.5°	0.3	0.3	0.3	0.3	0.3	0.3
141°	0.3	0.3	0.3	0.3	0.3	0.3
141.5°	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.4	0.3	0.3	0.3	0.3	0.3
154.5°	0.4	0.3	0.3	0.3	0.3	0.3
155°	0.4	0.3	0.3	0.3	0.3	0.3
155.5°	0.4	0.3	0.3	0.3	0.3	0.3
156°	0.4	0.3	0.3	0.3	0.3	0.3
156.5°	0.4	0.3	0.3	0.3	0.3	0.3
157°	0.4	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640183

CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.4	0.3	0.3	0.3	0.3	0.3
158°	0.4	0.3	0.3	0.3	0.3	0.3
158.5°	0.4	0.3	0.3	0.3	0.3	0.3
159°	0.4	0.3	0.3	0.3	0.3	0.3
159.5°	0.4	0.3	0.3	0.3	0.3	0.3
160°	0.4	0.3	0.3	0.3	0.3	0.3
160.5°	0.4	0.3	0.3	0.3	0.3	0.3
161°	0.4	0.3	0.3	0.3	0.3	0.3
161.5°	0.4	0.3	0.3	0.3	0.3	0.3
162°	0.4	0.3	0.3	0.3	0.3	0.3
162.5°	0.4	0.3	0.3	0.4	0.3	0.3
163°	0.4	0.3	0.3	0.4	0.3	0.3
163.5°	0.4	0.3	0.3	0.4	0.3	0.3
164°	0.4	0.3	0.3	0.4	0.3	0.3
164.5°	0.4	0.3	0.4	0.4	0.3	0.3
165°	0.4	0.3	0.4	0.4	0.3	0.3
165.5°	0.4	0.3	0.4	0.4	0.4	0.3
166°	0.4	0.3	0.4	0.4	0.4	0.3
166.5°	0.4	0.3	0.4	0.4	0.4	0.3
167°	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640183  
CATALOG NUMBER: LCR412RD9FSE020-14W-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.4	0.4	0.4	0.4	0.4	0.4

(END OF REPORT)