

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: METALUX

Report Number: P973015

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-LOW-5000K

Issue Date: 3/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( DLF2412105-1a)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CGRK-L3C3-UNV-MP4-LOW-5000K  
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, LOW lumen, 5000K CCT settings  
Light Source: -  
Ballast/Driver: -

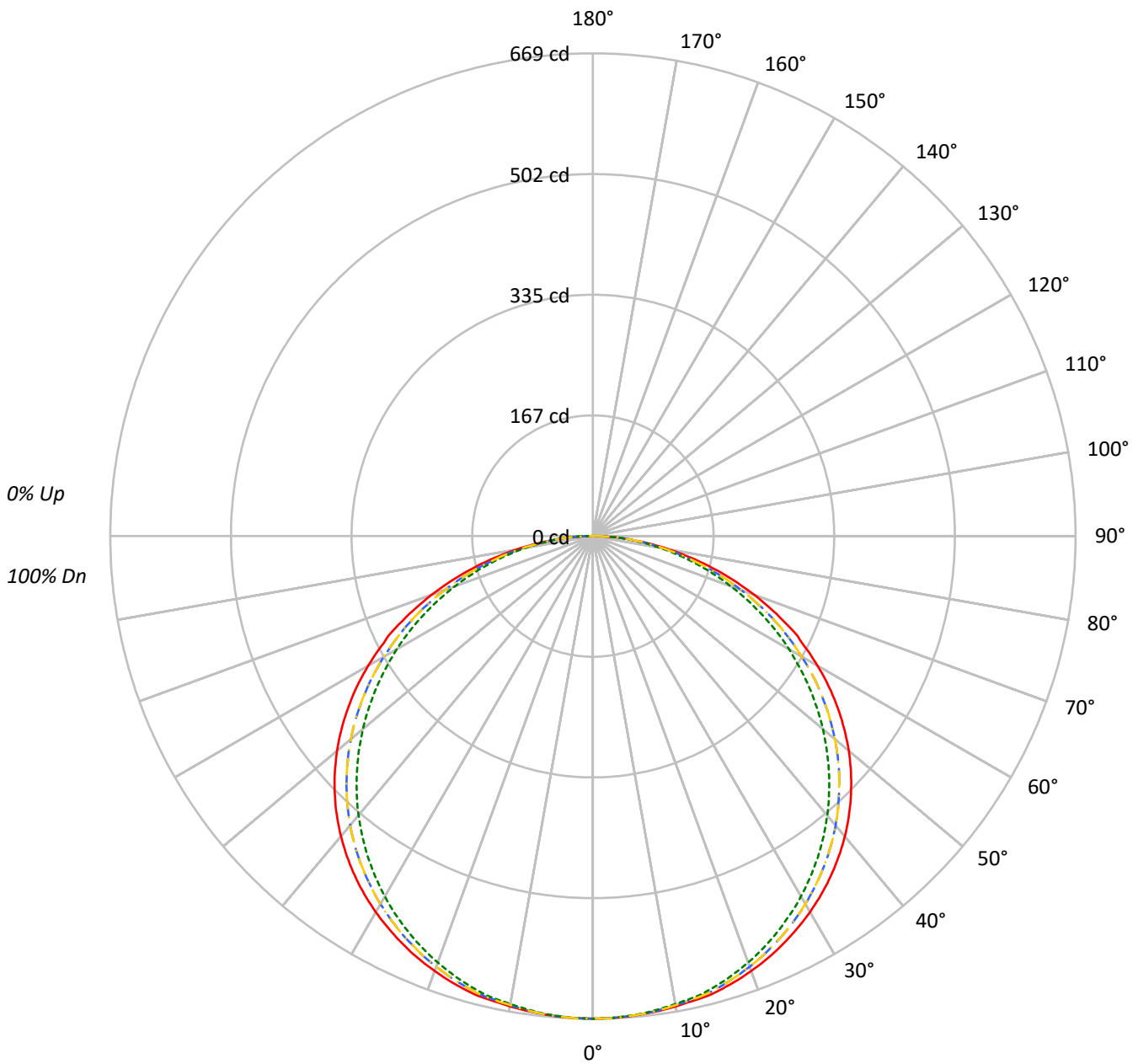
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2100.0 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.43  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P973015  
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-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				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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	70	70	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	30	30	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

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

	0°	90°	180°	270°
0°	2254	2254	2254	2254
5°	2256	2253	2256	2253
10°	2264	2253	2264	2253
15°	2284	2258	2284	2258
20°	2300	2255	2300	2255
25°	2319	2250	2319	2250
30°	2341	2244	2341	2244
35°	2365	2235	2365	2235
40°	2390	2222	2390	2222
45°	2411	2205	2411	2205
50°	2427	2182	2427	2182
55°	2433	2151	2433	2151
60°	2425	2119	2425	2119
65°	2410	2069	2410	2069
70°	2344	2006	2344	2006
75°	2244	1931	2244	1931
80°	2100	1845	2100	1845
85°	1856	1863	1856	1863

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 89°  
 Luminance: 3591 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	183.8	8.8
20°-30°	283.4	13.5
30°-40°	349.7	16.7
40°-50°	373.0	17.8
50°-60°	347.6	16.6
60°-70°	275.9	13.1
70°-80°	168.7	8.0
80°-90°	54.4	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	530.7	25.3
0°-40°	880.4	41.9
0°-60°	1601.0	76.2
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	669	669	669	669	669	
5°	667	666	667	666	667	63
15°	655	647	655	647	655	185
25°	624	605	624	605	624	288
35°	575	543	575	543	575	360
45°	506	463	506	463	506	390
55°	414	366	414	366	414	370
65°	302	260	302	260	302	298
75°	172	148	172	148	172	182
85°	48	48	48	48	48	52
90°	0	0	0	0	0	3
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: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9
1°	668.7	669.0	668.9	668.9	668.7	668.8	668.6	668.8	668.7	668.9	668.9
2°	668.3	668.7	668.6	668.6	668.4	668.5	668.3	668.5	668.4	668.6	668.6
3°	668.0	668.4	668.2	668.2	667.9	668.1	667.9	668.1	667.9	668.2	668.2
4°	667.6	667.8	667.7	667.5	667.3	667.3	667.1	667.3	667.3	667.5	667.7
5°	666.9	667.0	666.9	666.8	666.5	666.3	666.2	666.3	666.5	666.8	666.9
6°	666.1	666.3	666.0	665.9	665.4	665.2	665.1	665.2	665.4	665.9	666.0
7°	665.2	665.3	665.0	664.7	664.1	663.9	663.6	663.9	664.1	664.7	665.0
8°	664.3	664.1	663.8	663.2	662.7	662.4	662.1	662.4	662.7	663.2	663.8
9°	662.9	662.9	662.4	662.0	661.2	660.6	660.3	660.6	661.2	662.0	662.4
10°	661.8	661.5	660.8	660.1	659.5	658.8	658.4	658.8	659.5	660.1	660.8
11°	660.3	660.0	659.2	658.7	657.9	657.1	656.7	657.1	657.9	658.7	659.2
12°	659.1	658.9	658.1	657.1	656.3	655.3	655.2	655.3	656.3	657.1	658.1
13°	658.0	658.0	657.0	655.8	654.5	653.4	653.3	653.4	654.5	655.8	657.0
14°	656.9	656.6	655.2	653.8	652.4	651.1	650.4	651.1	652.4	653.8	655.2
15°	654.8	654.2	652.8	651.1	649.4	648.1	647.4	648.1	649.4	651.1	652.8
16°	652.5	651.8	650.3	648.3	646.4	644.9	644.1	644.9	646.4	648.3	650.3
17°	650.0	649.2	647.5	645.4	643.2	641.5	640.7	641.5	643.2	645.4	647.5
18°	647.3	646.4	644.6	642.1	639.7	637.8	636.9	637.8	639.7	642.1	644.6
19°	644.5	643.6	641.4	638.7	636.1	634.0	633.0	634.0	636.1	638.7	641.4
20°	641.4	640.5	638.2	635.2	632.2	629.9	628.9	629.9	632.2	635.2	638.2
21°	638.3	637.2	634.7	631.4	628.3	625.8	624.7	625.8	628.3	631.4	634.7
22°	635.1	633.8	631.0	627.6	623.9	621.2	620.1	621.2	623.9	627.6	631.0
23°	631.5	630.3	627.2	623.2	619.5	616.7	615.3	616.7	619.5	623.2	627.2
24°	627.8	626.5	623.2	618.8	614.8	611.8	610.5	611.8	614.8	618.8	623.2
25°	623.7	622.4	619.0	614.5	610.0	606.7	605.2	606.7	610.0	614.5	619.0
26°	619.7	618.2	614.7	609.6	605.0	601.4	600.0	601.4	605.0	609.6	614.7
27°	615.5	614.0	610.2	604.8	599.7	595.9	594.3	595.9	599.7	604.8	610.2
28°	611.0	609.6	605.5	599.6	594.3	590.2	588.9	590.2	594.3	599.6	605.5
29°	606.5	604.8	600.5	594.4	588.6	584.5	582.9	584.5	588.6	594.4	600.5
30°	601.7	600.0	595.3	588.9	582.9	578.4	576.7	578.4	582.9	588.9	595.3
31°	596.7	594.9	590.1	583.3	576.8	572.1	570.4	572.1	576.8	583.3	590.1
32°	591.7	589.7	584.6	577.3	570.6	565.8	563.9	565.8	570.6	577.3	584.6
33°	586.3	584.2	578.7	571.2	564.1	559.0	557.2	559.0	564.1	571.2	578.7
34°	580.8	578.5	572.8	565.1	557.6	552.1	550.3	552.1	557.6	565.1	572.8
35°	575.0	572.6	566.8	558.6	550.8	545.4	543.4	545.4	550.8	558.6	566.8
36°	569.1	566.7	560.4	551.9	543.8	538.0	536.2	538.0	543.8	551.9	560.4
37°	562.9	560.4	553.8	545.1	536.7	530.7	528.7	530.7	536.7	545.1	553.8
38°	556.6	554.0	547.1	538.0	529.3	523.3	521.2	523.3	529.3	538.0	547.1
39°	550.0	547.3	540.1	530.8	521.8	515.5	513.2	515.5	521.8	530.8	540.1
40°	543.3	540.5	532.8	523.3	514.1	507.6	505.2	507.6	514.1	523.3	532.8
41°	536.2	533.3	525.6	515.6	506.2	499.5	497.2	499.5	506.2	515.6	525.6
42°	528.9	526.0	518.0	507.7	498.1	491.2	488.7	491.2	498.1	507.7	518.0
43°	521.6	518.5	510.3	499.7	489.8	482.8	480.3	482.8	489.8	499.7	510.3
44°	514.0	510.7	502.3	491.5	481.3	474.1	471.5	474.1	481.3	491.5	502.3



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	505.9	502.7	494.0	483.0	472.7	465.4	462.8	465.4	472.7	483.0	494.0
46°	497.8	494.5	485.5	474.3	463.9	456.5	453.7	456.5	463.9	474.3	485.5
47°	489.4	486.0	477.0	465.5	454.9	447.2	444.5	447.2	454.9	465.5	477.0
48°	480.8	477.5	468.2	456.6	445.7	437.9	435.3	437.9	445.7	456.6	468.2
49°	471.9	468.4	459.1	447.3	436.3	428.5	425.6	428.5	436.3	447.3	459.1
50°	463.0	459.3	449.8	437.9	426.8	418.9	416.2	418.9	426.8	437.9	449.8
51°	453.6	450.0	440.5	428.4	417.1	409.3	406.5	409.3	417.1	428.4	440.5
52°	443.9	440.3	430.7	418.5	407.2	399.3	396.6	399.3	407.2	418.5	430.7
53°	434.2	430.6	420.9	408.6	397.3	389.4	386.4	389.4	397.3	408.6	420.9
54°	424.2	420.5	410.8	398.5	387.2	379.4	376.6	379.4	387.2	398.5	410.8
55°	414.1	410.3	400.6	388.2	376.9	369.0	366.1	369.0	376.9	388.2	400.6
56°	403.6	399.9	390.1	377.8	366.4	358.7	355.8	358.7	366.4	377.8	390.1
57°	393.1	389.3	379.6	367.2	355.9	348.2	345.4	348.2	355.9	367.2	379.6
58°	382.2	378.4	368.7	356.4	345.2	337.6	334.8	337.6	345.2	356.4	368.7
59°	371.1	367.3	357.7	345.5	334.4	326.9	324.2	326.9	334.4	345.5	357.7
60°	359.8	356.0	346.6	334.4	323.6	316.4	314.4	316.4	323.6	334.4	346.6
61°	348.2	344.5	335.1	323.2	312.9	305.8	303.5	305.8	312.9	323.2	335.1
62°	336.6	332.9	323.6	312.1	302.0	295.0	292.7	295.0	302.0	312.1	323.6
63°	324.7	321.1	311.7	301.1	291.1	284.2	281.7	284.2	291.1	301.1	311.7
64°	315.7	309.4	300.6	289.9	279.8	273.1	270.6	273.1	279.8	289.9	300.6
65°	302.3	297.6	289.2	278.2	268.3	261.9	259.5	261.9	268.3	278.2	289.2
66°	289.0	285.6	277.0	266.4	256.9	250.7	248.3	250.7	256.9	266.4	277.0
67°	276.5	273.2	264.9	254.6	245.5	239.3	237.2	239.3	245.5	254.6	264.9
68°	263.7	260.5	252.5	242.7	233.9	228.1	226.0	228.1	233.9	242.7	252.5
69°	250.8	247.8	240.1	230.7	222.3	216.8	214.8	216.8	222.3	230.7	240.1
70°	237.9	235.0	227.7	218.8	210.7	205.5	203.6	205.5	210.7	218.8	227.7
71°	224.8	222.1	215.2	206.7	199.1	194.3	192.5	194.3	199.1	206.7	215.2
72°	211.7	209.2	202.6	194.8	187.7	183.0	181.3	183.0	187.7	194.8	202.6
73°	198.6	196.3	190.1	182.8	176.1	171.8	170.3	171.8	176.1	182.8	190.1
74°	185.5	183.3	177.6	170.8	164.7	160.7	159.3	160.7	164.7	170.8	177.6
75°	172.4	170.3	165.2	158.9	153.3	149.6	148.3	149.6	153.3	158.9	165.2
76°	159.4	157.5	152.9	147.2	142.1	138.7	137.5	138.7	142.1	147.2	152.9
77°	146.3	144.8	140.5	135.5	130.9	127.8	126.7	127.8	130.9	135.5	140.5
78°	133.6	132.0	128.3	123.8	119.8	117.0	116.0	117.0	119.8	123.8	128.3
79°	120.9	119.6	116.4	112.4	108.8	106.4	105.5	106.4	108.8	112.4	116.4
80°	108.2	107.3	104.5	101.1	98.0	95.9	95.1	95.9	98.0	101.1	104.5
81°	95.8	95.0	92.9	90.0	87.4	85.7	85.1	85.7	87.4	90.0	92.9
82°	83.5	82.9	81.4	79.1	76.9	75.7	75.2	75.7	76.9	79.1	81.4
83°	71.3	70.9	69.9	68.2	66.6	65.8	65.4	65.8	66.6	68.2	69.9
84°	59.4	59.3	58.7	57.9	56.9	56.6	56.4	56.6	56.9	57.9	58.7
85°	48.0	48.0	47.8	47.7	47.9	48.2	48.2	48.2	47.9	47.7	47.8
86°	37.0	37.2	37.4	38.5	39.8	40.4	40.6	40.4	39.8	38.5	37.4
87°	26.6	27.0	28.2	30.2	32.3	33.2	33.5	33.2	32.3	30.2	28.2
88°	17.2	17.8	20.3	23.0	25.0	26.3	26.3	26.3	25.0	23.0	20.3
89°	8.3	9.9	12.6	15.5	17.2	18.6	17.7	18.6	17.2	15.5	12.6



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 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	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
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973015  
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9	668.9
1°	669.0	668.7	669.0	668.9	668.9	668.7	668.8	668.6	668.8	668.7	668.9
2°	668.7	668.3	668.7	668.6	668.6	668.4	668.5	668.3	668.5	668.4	668.6
3°	668.4	668.0	668.4	668.2	668.2	667.9	668.1	667.9	668.1	667.9	668.2
4°	667.8	667.6	667.8	667.7	667.5	667.3	667.3	667.1	667.3	667.3	667.5
5°	667.0	666.9	667.0	666.9	666.8	666.5	666.3	666.2	666.3	666.5	666.8
6°	666.3	666.1	666.3	666.0	665.9	665.4	665.2	665.1	665.2	665.4	665.9
7°	665.3	665.2	665.3	665.0	664.7	664.1	663.9	663.6	663.9	664.1	664.7
8°	664.1	664.3	664.1	663.8	663.2	662.7	662.4	662.1	662.4	662.7	663.2
9°	662.9	662.9	662.9	662.4	662.0	661.2	660.6	660.3	660.6	661.2	662.0
10°	661.5	661.8	661.5	660.8	660.1	659.5	658.8	658.4	658.8	659.5	660.1
11°	660.0	660.3	660.0	659.2	658.7	657.9	657.1	656.7	657.1	657.9	658.7
12°	658.9	659.1	658.9	658.1	657.1	656.3	655.3	655.2	655.3	656.3	657.1
13°	658.0	658.0	658.0	657.0	655.8	654.5	653.4	653.3	653.4	654.5	655.8
14°	656.6	656.9	656.6	655.2	653.8	652.4	651.1	650.4	651.1	652.4	653.8
15°	654.2	654.8	654.2	652.8	651.1	649.4	648.1	647.4	648.1	649.4	651.1
16°	651.8	652.5	651.8	650.3	648.3	646.4	644.9	644.1	644.9	646.4	648.3
17°	649.2	650.0	649.2	647.5	645.4	643.2	641.5	640.7	641.5	643.2	645.4
18°	646.4	647.3	646.4	644.6	642.1	639.7	637.8	636.9	637.8	639.7	642.1
19°	643.6	644.5	643.6	641.4	638.7	636.1	634.0	633.0	634.0	636.1	638.7
20°	640.5	641.4	640.5	638.2	635.2	632.2	629.9	628.9	629.9	632.2	635.2
21°	637.2	638.3	637.2	634.7	631.4	628.3	625.8	624.7	625.8	628.3	631.4
22°	633.8	635.1	633.8	631.0	627.6	623.9	621.2	620.1	621.2	623.9	627.6
23°	630.3	631.5	630.3	627.2	623.2	619.5	616.7	615.3	616.7	619.5	623.2
24°	626.5	627.8	626.5	623.2	618.8	614.8	611.8	610.5	611.8	614.8	618.8
25°	622.4	623.7	622.4	619.0	614.5	610.0	606.7	605.2	606.7	610.0	614.5
26°	618.2	619.7	618.2	614.7	609.6	605.0	601.4	600.0	601.4	605.0	609.6
27°	614.0	615.5	614.0	610.2	604.8	599.7	595.9	594.3	595.9	599.7	604.8
28°	609.6	611.0	609.6	605.5	599.6	594.3	590.2	588.9	590.2	594.3	599.6
29°	604.8	606.5	604.8	600.5	594.4	588.6	584.5	582.9	584.5	588.6	594.4
30°	600.0	601.7	600.0	595.3	588.9	582.9	578.4	576.7	578.4	582.9	588.9
31°	594.9	596.7	594.9	590.1	583.3	576.8	572.1	570.4	572.1	576.8	583.3
32°	589.7	591.7	589.7	584.6	577.3	570.6	565.8	563.9	565.8	570.6	577.3
33°	584.2	586.3	584.2	578.7	571.2	564.1	559.0	557.2	559.0	564.1	571.2
34°	578.5	580.8	578.5	572.8	565.1	557.6	552.1	550.3	552.1	557.6	565.1
35°	572.6	575.0	572.6	566.8	558.6	550.8	545.4	543.4	545.4	550.8	558.6
36°	566.7	569.1	566.7	560.4	551.9	543.8	538.0	536.2	538.0	543.8	551.9
37°	560.4	562.9	560.4	553.8	545.1	536.7	530.7	528.7	530.7	536.7	545.1
38°	554.0	556.6	554.0	547.1	538.0	529.3	523.3	521.2	523.3	529.3	538.0
39°	547.3	550.0	547.3	540.1	530.8	521.8	515.5	513.2	515.5	521.8	530.8
40°	540.5	543.3	540.5	532.8	523.3	514.1	507.6	505.2	507.6	514.1	523.3
41°	533.3	536.2	533.3	525.6	515.6	506.2	499.5	497.2	499.5	506.2	515.6
42°	526.0	528.9	526.0	518.0	507.7	498.1	491.2	488.7	491.2	498.1	507.7
43°	518.5	521.6	518.5	510.3	499.7	489.8	482.8	480.3	482.8	489.8	499.7
44°	510.7	514.0	510.7	502.3	491.5	481.3	474.1	471.5	474.1	481.3	491.5



TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	502.7	505.9	502.7	494.0	483.0	472.7	465.4	462.8	465.4	472.7	483.0
46°	494.5	497.8	494.5	485.5	474.3	463.9	456.5	453.7	456.5	463.9	474.3
47°	486.0	489.4	486.0	477.0	465.5	454.9	447.2	444.5	447.2	454.9	465.5
48°	477.5	480.8	477.5	468.2	456.6	445.7	437.9	435.3	437.9	445.7	456.6
49°	468.4	471.9	468.4	459.1	447.3	436.3	428.5	425.6	428.5	436.3	447.3
50°	459.3	463.0	459.3	449.8	437.9	426.8	418.9	416.2	418.9	426.8	437.9
51°	450.0	453.6	450.0	440.5	428.4	417.1	409.3	406.5	409.3	417.1	428.4
52°	440.3	443.9	440.3	430.7	418.5	407.2	399.3	396.6	399.3	407.2	418.5
53°	430.6	434.2	430.6	420.9	408.6	397.3	389.4	386.4	389.4	397.3	408.6
54°	420.5	424.2	420.5	410.8	398.5	387.2	379.4	376.6	379.4	387.2	398.5
55°	410.3	414.1	410.3	400.6	388.2	376.9	369.0	366.1	369.0	376.9	388.2
56°	399.9	403.6	399.9	390.1	377.8	366.4	358.7	355.8	358.7	366.4	377.8
57°	389.3	393.1	389.3	379.6	367.2	355.9	348.2	345.4	348.2	355.9	367.2
58°	378.4	382.2	378.4	368.7	356.4	345.2	337.6	334.8	337.6	345.2	356.4
59°	367.3	371.1	367.3	357.7	345.5	334.4	326.9	324.2	326.9	334.4	345.5
60°	356.0	359.8	356.0	346.6	334.4	323.6	316.4	314.4	316.4	323.6	334.4
61°	344.5	348.2	344.5	335.1	323.2	312.9	305.8	303.5	305.8	312.9	323.2
62°	332.9	336.6	332.9	323.6	312.1	302.0	295.0	292.7	295.0	302.0	312.1
63°	321.1	324.7	321.1	311.7	301.1	291.1	284.2	281.7	284.2	291.1	301.1
64°	309.4	315.7	309.4	300.6	289.9	279.8	273.1	270.6	273.1	279.8	289.9
65°	297.6	302.3	297.6	289.2	278.2	268.3	261.9	259.5	261.9	268.3	278.2
66°	285.6	289.0	285.6	277.0	266.4	256.9	250.7	248.3	250.7	256.9	266.4
67°	273.2	276.5	273.2	264.9	254.6	245.5	239.3	237.2	239.3	245.5	254.6
68°	260.5	263.7	260.5	252.5	242.7	233.9	228.1	226.0	228.1	233.9	242.7
69°	247.8	250.8	247.8	240.1	230.7	222.3	216.8	214.8	216.8	222.3	230.7
70°	235.0	237.9	235.0	227.7	218.8	210.7	205.5	203.6	205.5	210.7	218.8
71°	222.1	224.8	222.1	215.2	206.7	199.1	194.3	192.5	194.3	199.1	206.7
72°	209.2	211.7	209.2	202.6	194.8	187.7	183.0	181.3	183.0	187.7	194.8
73°	196.3	198.6	196.3	190.1	182.8	176.1	171.8	170.3	171.8	176.1	182.8
74°	183.3	185.5	183.3	177.6	170.8	164.7	160.7	159.3	160.7	164.7	170.8
75°	170.3	172.4	170.3	165.2	158.9	153.3	149.6	148.3	149.6	153.3	158.9
76°	157.5	159.4	157.5	152.9	147.2	142.1	138.7	137.5	138.7	142.1	147.2
77°	144.8	146.3	144.8	140.5	135.5	130.9	127.8	126.7	127.8	130.9	135.5
78°	132.0	133.6	132.0	128.3	123.8	119.8	117.0	116.0	117.0	119.8	123.8
79°	119.6	120.9	119.6	116.4	112.4	108.8	106.4	105.5	106.4	108.8	112.4
80°	107.3	108.2	107.3	104.5	101.1	98.0	95.9	95.1	95.9	98.0	101.1
81°	95.0	95.8	95.0	92.9	90.0	87.4	85.7	85.1	85.7	87.4	90.0
82°	82.9	83.5	82.9	81.4	79.1	76.9	75.7	75.2	75.7	76.9	79.1
83°	70.9	71.3	70.9	69.9	68.2	66.6	65.8	65.4	65.8	66.6	68.2
84°	59.3	59.4	59.3	58.7	57.9	56.9	56.6	56.4	56.6	56.9	57.9
85°	48.0	48.0	48.0	47.8	47.7	47.9	48.2	48.2	48.2	47.9	47.7
86°	37.2	37.0	37.2	37.4	38.5	39.8	40.4	40.6	40.4	39.8	38.5
87°	27.0	26.6	27.0	28.2	30.2	32.3	33.2	33.5	33.2	32.3	30.2
88°	17.8	17.2	17.8	20.3	23.0	25.0	26.3	26.3	26.3	25.0	23.0
89°	9.9	8.3	9.9	12.6	15.5	17.2	18.6	17.7	18.6	17.2	15.5



TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	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
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973015  
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973015

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	668.9	668.9	668.9
1°	668.9	669.0	668.7
2°	668.6	668.7	668.3
3°	668.2	668.4	668.0
4°	667.7	667.8	667.6
5°	666.9	667.0	666.9
6°	666.0	666.3	666.1
7°	665.0	665.3	665.2
8°	663.8	664.1	664.3
9°	662.4	662.9	662.9
10°	660.8	661.5	661.8
11°	659.2	660.0	660.3
12°	658.1	658.9	659.1
13°	657.0	658.0	658.0
14°	655.2	656.6	656.9
15°	652.8	654.2	654.8
16°	650.3	651.8	652.5
17°	647.5	649.2	650.0
18°	644.6	646.4	647.3
19°	641.4	643.6	644.5
20°	638.2	640.5	641.4
21°	634.7	637.2	638.3
22°	631.0	633.8	635.1
23°	627.2	630.3	631.5
24°	623.2	626.5	627.8
25°	619.0	622.4	623.7
26°	614.7	618.2	619.7
27°	610.2	614.0	615.5
28°	605.5	609.6	611.0
29°	600.5	604.8	606.5
30°	595.3	600.0	601.7
31°	590.1	594.9	596.7
32°	584.6	589.7	591.7
33°	578.7	584.2	586.3
34°	572.8	578.5	580.8
35°	566.8	572.6	575.0
36°	560.4	566.7	569.1
37°	553.8	560.4	562.9
38°	547.1	554.0	556.6
39°	540.1	547.3	550.0
40°	532.8	540.5	543.3
41°	525.6	533.3	536.2
42°	518.0	526.0	528.9
43°	510.3	518.5	521.6
44°	502.3	510.7	514.0





TEST NUMBER: P973015

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	494.0	502.7	505.9
46°	485.5	494.5	497.8
47°	477.0	486.0	489.4
48°	468.2	477.5	480.8
49°	459.1	468.4	471.9
50°	449.8	459.3	463.0
51°	440.5	450.0	453.6
52°	430.7	440.3	443.9
53°	420.9	430.6	434.2
54°	410.8	420.5	424.2
55°	400.6	410.3	414.1
56°	390.1	399.9	403.6
57°	379.6	389.3	393.1
58°	368.7	378.4	382.2
59°	357.7	367.3	371.1
60°	346.6	356.0	359.8
61°	335.1	344.5	348.2
62°	323.6	332.9	336.6
63°	311.7	321.1	324.7
64°	300.6	309.4	315.7
65°	289.2	297.6	302.3
66°	277.0	285.6	289.0
67°	264.9	273.2	276.5
68°	252.5	260.5	263.7
69°	240.1	247.8	250.8
70°	227.7	235.0	237.9
71°	215.2	222.1	224.8
72°	202.6	209.2	211.7
73°	190.1	196.3	198.6
74°	177.6	183.3	185.5
75°	165.2	170.3	172.4
76°	152.9	157.5	159.4
77°	140.5	144.8	146.3
78°	128.3	132.0	133.6
79°	116.4	119.6	120.9
80°	104.5	107.3	108.2
81°	92.9	95.0	95.8
82°	81.4	82.9	83.5
83°	69.9	70.9	71.3
84°	58.7	59.3	59.4
85°	47.8	48.0	48.0
86°	37.4	37.2	37.0
87°	28.2	27.0	26.6
88°	20.3	17.8	17.2
89°	12.6	9.9	8.3



TEST NUMBER: P973015

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



TEST NUMBER: P973015  
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



TEST NUMBER: P973015  
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973015  
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-LOW-5000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.48	17.16	15.85	17.48	17.79	14.77	16.45	15.14	16.77	17.08
	3H	17.51	19.04	17.89	19.36	19.72	16.69	18.21	17.06	18.54	18.90
	4H	18.30	19.74	18.70	20.09	20.46	17.44	18.88	17.84	19.23	19.60
	6H	18.91	20.24	19.32	20.61	21.00	18.04	19.38	18.45	19.74	20.13
	8H	19.11	20.39	19.54	20.78	21.18	18.26	19.54	18.68	19.92	20.32
	12H	19.21	20.44	19.64	20.82	21.25	18.38	19.60	18.81	19.99	20.41
4H	2H	16.09	17.53	16.49	17.88	18.25	15.54	16.98	15.94	17.33	17.70
	3H	18.35	19.56	18.76	19.96	20.36	17.67	18.88	18.08	19.28	19.68
	4H	19.28	20.38	19.71	20.79	21.23	18.55	19.65	18.98	20.07	20.50
	6H	20.03	21.00	20.49	21.44	21.89	19.28	20.25	19.73	20.69	21.14
	8H	20.30	21.21	20.76	21.65	22.11	19.55	20.46	20.01	20.90	21.37
	12H	20.47	21.29	20.95	21.76	22.23	19.75	20.57	20.23	21.04	21.51
8H	4H	19.60	20.50	20.05	20.94	21.41	18.96	19.87	19.42	20.31	20.77
	6H	20.49	21.25	20.98	21.73	22.21	19.83	20.59	20.33	21.08	21.55
	8H	20.84	21.52	21.35	22.03	22.51	20.19	20.87	20.70	21.38	21.86
	12H	21.11	21.71	21.61	22.20	22.76	20.49	21.09	20.99	21.58	22.14
12H	4H	19.64	20.45	20.12	20.93	21.40	19.02	19.84	19.50	20.32	20.78
	6H	20.56	21.24	21.06	21.74	22.23	19.93	20.61	20.43	21.11	21.60
	8H	20.97	21.58	21.48	22.07	22.62	20.36	20.96	20.86	21.45	22.01