

# Aardenburg

144



IMAGING & ARCHIVES

*Tested System:*

*ID#:306*

Printer: Canon Pixma Pro-100

Inks/Colorants: Canon Chromalife 100+ ( 8-color ink set Cli-42)

Media: Canon Photo Paper Pro Platinum PT-101

Coating(s): no additional coating

**Sample #: AaI\_20131001\_SN009**

**Testing Status: 120 Megalux hours total light exposure**

*Testing Is ongoing, next update on approximately DEC 20, 2017*

## Conservation Display Rating (CDR)

*Lower limit:* 22 Megalux hours (for weakest 10% of the color patches)

*Upper limit:* 28 Megalux hours (for average of all the color patches)

Note: a CDR with narrow range (typically less than 2:1) indicates relatively even overall fading of the image. A wide range indicates faster fading in certain local colors/tones prior to general fading of most colors/tones in the entire image. Compare ratings for different systems directly and/or use the table on page 2 to estimate time (years) on display.

\* Please read document AaI\_2009\_0118\_TA-01.pdf, “**An Overview of the AaI&A Conservation Display Ratings**”, located on the Documents page of the AaI&A website for further explanation of the Conservation display ratings.

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## About this Report

This report contains light fastness information about a sample test print produced by a specific digital printing system. “System” refers to all hardware, software, and materials used to make the finished print. The hardware, software, material components, and printmaker’s skills contribute to the final image quality and image permanence. The tested sample is made with current or recently discontinued stocks of commercially available products unless otherwise stated. Each sample has been prepared by Aardenburg Imaging & Archives or one of its members in accordance with customary print making practices unless otherwise noted. The sample may also contain additional finishing materials such as overcoats and laminates which are also noted when used. Finally, the sample has been tested under standardized conditions that are defined on the Sample Description page (see page 4). AaI&A makes every effort to ensure but cannot guarantee that the samples are properly identified and documented and that test results are accurate. For this reason, AaI&A also strives to test independently produced sample replicates in order to increase sampling confidence and to provide information on process variability. Please compare the results in this report to replicate test samples when the data become available.

## Understanding this Report



The magnitude and visual appearance of fading depends not only on the chosen printing system but the chosen image as well. In other words, different images are comprised of different colors, and the fading relationships between those colors dictate how the image will look as it fades. The sample print in this test report was made by reproducing the digital image shown on the left. It contains 30 standard colors. 24 of the colors are colorimetrically matched to the Macbeth ColorChecker™ chart viewed under D50 illumination. The remaining six colors supplement the ColorChecker™ array with four additional skin tone colors, one patch for paper white, and another for maximum black. The additional colors also round out the distribution of CIELAB L\* (lightness) values in the test target.

Information about the fading characteristics of the product is provided in three ways:

**1) You can visually assess the fading.** The target images reproduced in this report are digitally reconstructed from the spectrally measured color data rather than scanning or otherwise reproducing the physical print by conventional techniques. This method ensures a colorimetrically accurate representation of the print appearance as the print fades. A calibrated monitor is recommended to experience the best possible reproduction of the test sample appearance. The side-by-side “before and after” presentation of the target images simulates looking at a perfect copy of the unexposed original print along side the same print after light exposure. You can also use Adobe Reader’s full screen mode to cycle through the pages and “animate” the fading.

**2) I\* Color and tonal accuracy scores are reported.** This report includes I\* metric scores that compare the color and tonal relationships of the light exposed samples to the color and tonal relationships existing in the original print prior to light exposure. Perfect I\* scores of 100% can be approached when no significant fading occurs. Average scores above 90% generally indicate excellent retention of original quality, 80% good, 70% fair, etc., but your conclusions may vary depending on your image quality requirements. I\* color rates the retained color accuracy (hue and chroma) while I\* tone rates the retained tonal accuracy (lightness and contrast). The score is on a percentile scale where 100% is a perfect match between the comparison image (e.g., “after” light exposure) and the reference image (e.g., “before” any light exposure). 0% I\* color means no color accuracy is left. 0% I\* tone means essentially no tonality remains and all image information content is lost. Negative I\* values have significance as well and contribute to the average I\* score when they occur. Negative I\* color values mean false color has occurred, for example, when a skin tone turns green or a neutral gray becomes distinctly colorful. Negative I\* tone scores mean visual contrast between colors has become inverted (i.e., like the tonal relationships in a photographic film negative). Serious image quality problems must arise before false colors and/or tones appear. For more information on the I\* metric, please refer to the AaI&A web site.

**3) Color changes are also reported using the classic color difference model,  $\Delta E$ .** Note that  $\Delta E$  values lose perceptual scaling significance when they become large (e.g., > 15). Also, the  $\Delta E$  equation does not unambiguously measure changes in image contrast. This limitation is generally not a problem for paints and textiles, but can be a serious oversight when evaluating photographic images. Properly tracking changes in image contrast was a major reason behind the development of the I\* metric.

Table to Convert Megalux-hours of Light Exposure to estimated "Years on Display" Light Fastness Ratings.												
Indoor Light Levels for Print Display		Multiply Mlux-hrs by	Megalux-hours in test									
Light Exposure	Description		10	20	30	40	50	60	70	80	90	100
≤ 10 Lux 24 hours per day	Interior rooms, storage areas, or hallways without windows, illuminated sparingly by artificial lighting	11.42	114	228	342	457	571	685	799	913	1027	1142
50 Lux 12 hours per day	"Museum Standard" display condition	4.57	46	91	137	183	228	274	325	365	411	457
120 Lux 12 hours per day "Kodak Display Years" (1)	Average home illumination level for photos is ~ 60 lux. 90% of all displayed photos do not exceed 120 lux (1).	1.90	19	38	57	76	95	114	133	152	171	190
228 Lux 12 hours per day	Relatively bright home or office. Note the simple 1:1 relationship between "years on display" and Mlux-hr values at this condition.	1.00	10	20	30	40	50	60	70	80	90	100
450 Lux 12 hours per day "WIR Display Years" (2)  Also equals 500 lux for 11.8 hours per day	A bright home or commercial office building illumination level is 200-500 lux. Also, good illumination for color critical viewing and color matching tasks begins at about 500 lux.	0.51	5	10	15	20	25	30	35	41	46	51
2000 Lux 12 hours per day	Commercial Gallery. Also, critical color evaluation standards call for 2000 lux and a D50 illumination source.	0.114	1.1	2.3	3.4	4.6	5.7	6.8	8.0	9.1	10.3	11.4
5000 Lux 12 hours per day	E.g., Sunlight through a window striking print at an angle.	0.046	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.7	4.1	4.6
10,000 Lux 12 hours per day	South-facing window in U.S.A. , e.g., storefront display with photos directly facing window.	0.023	0.2	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3

Light levels commonly encountered in the real world fluctuate widely throughout indoor print display environments and produce large variations in how long it takes for artwork to acquire light-induced damage. Use this table as a guide to estimate how many "years on display" (denoted in red text) it takes to accumulate an equivalent light exposure dosage. Review the test results to decide which Megalux-hour dose has caused fading to your level of concern (e.g., just noticeable, easily noticeable, objectionable, etc.). Then choose the "Light Exposure" description that best represents how your print is likely to be displayed. You may want to obtain a lux meter and make some measurements in your own display environment!

Note that as the years of display time increase, light-induced fading can be eclipsed by other serious aging mechanisms such as fading and/or staining caused by heat, humidity, and air pollutants. Mould damage can also occur at high humidity. Even when colorants remain water fast, direct contact with liquids may result in physical deformation and staining of the substrate. Also, temperature and especially strong seasonal humidity fluctuations can cause physical cracks and/or flaking, etc., over time. Handling damage such as scratching, abrasion, tears and creases, and catastrophic damage by smoke, fire, flood, etc., also destroy print quality over time. Thus, as illumination levels are reduced other forms of print degradation take on greater probability of occurrence.

(1) Eastman Kodak cited this exposure condition with a 90% confidence limit as a rationale for estimating print fading times of traditional color photo materials in typical home display environments. However, for light fading claims regarding its line of pigment-based inkjet printers, Kodak adopted the higher level of 450lux/12 hours per day which is also used by Wilhelm Imaging Research, Inc. (See below).

(2) Wilhelm Imaging Research (WIR) standardized its light fastness ratings on 450 lux for 12 hours per day in order to estimate the years on display necessary to reach "easily noticeable" fading. This average daily light exposure dosage, at an assumed 75°F/60%RH temperature and humidity level, has become a de facto industry standard for most industry-sponsored predictive "years of life" light fading estimates in the absence of a published International Standards Organization (ISO) test standard. The table above readily shows how much error occurs in such "print lifetime" predictions as actual real world light levels for prints on display routinely deviate above and below the assumed 450 lux intensity value.

# Sample Description

**Sample #** AaI\_20131001\_SN009      **Batch #:** M1c  
**Printer:** Canon Pixma Pro-100  
**Ink:** Canon Chromalife 100+ ( 8-color ink set Cli-42)  
**Media:** Canon Photo Paper Pro Platinum PT-101  
**Coating(s):** no additional coating  
  
**Test Print Prepared by:** AaI&A  
**Printed:** October 1, 2013  
**Initial Print colors measured** December 10, 2013  
**Test Started:** December 10, 2013  
  
**Test Image:** AaI\_StandardColorSet(v2)forSRGB.tif  
**RIP?Driver settings:** PSCC, Canon OEM driver, ps manages colors, 16bit, quality = 1 (finest)

**Media Setting** Photo Paper Pro Platinum

**Profile:** Canon Pro-100<PT>1/2 Photo Paper Pro Platinum      **Rendering** Perceptual  
**Profile type:** generic, available through OEM driver

## Paper White Color (UV-included versus UV-excluded)

<b>Optical Brighteners Present?</b> <i>yes (high)</i>	<b>L*</b>		<b>a*</b>		<b>b*</b>	
	UV inc	UV exc	UV inc	UV exc	UV inc	UV exc
<b>Media Whitepoint Color</b>	97.6	97.3	1.4	-0.5	-6.3	1.2
<b>UV-inc/UV-exc <math>\Delta L^*</math>, <math>\Delta a^*</math>, <math>\Delta b^*</math> respectively</b>						
	0.2		1.9		7.4	
<i>Calculated differences, especially for <math>\Delta b^*</math>, indicate the role and magnitude of fluorescence on original paper color</i>						
<b>Maximum Printed Black</b>	<b>L*</b>	<b>a*</b>	<b>b*</b>	<b>Optical Density (Dmax)</b>		
	4.9	0.4	-2.1	2.26		

**Light source:** Phillips Colortone F40T12/C50 – 5000·K full spectrum fluorescent. Color rendering Index (CRI) =92), soda lime glass filtered  
**Light Exposure Cycle:** 8 hours on, 4 hours off, twice per 24 hours  
**CIELAB measurements:** D50 2° observer, Xrite Gretag/Macbeth Spectrolino/Spectroscan

**Average Illuminance during “on” cycle:** 10727 Lux

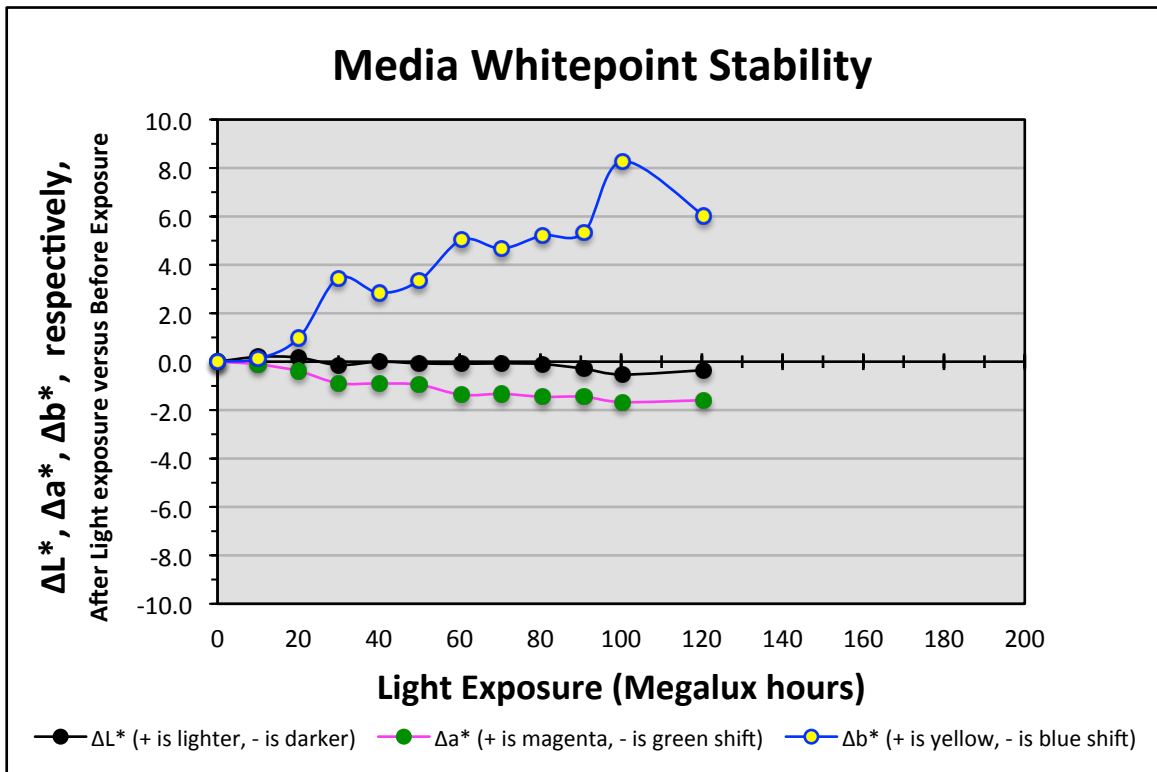
**Average Temperature:** 24.4°C over full test duration, 25.6°C during light exposure.

**Average Relative humidity:** 56.5%RH over full test duration, 56.6%RH during light exposure.

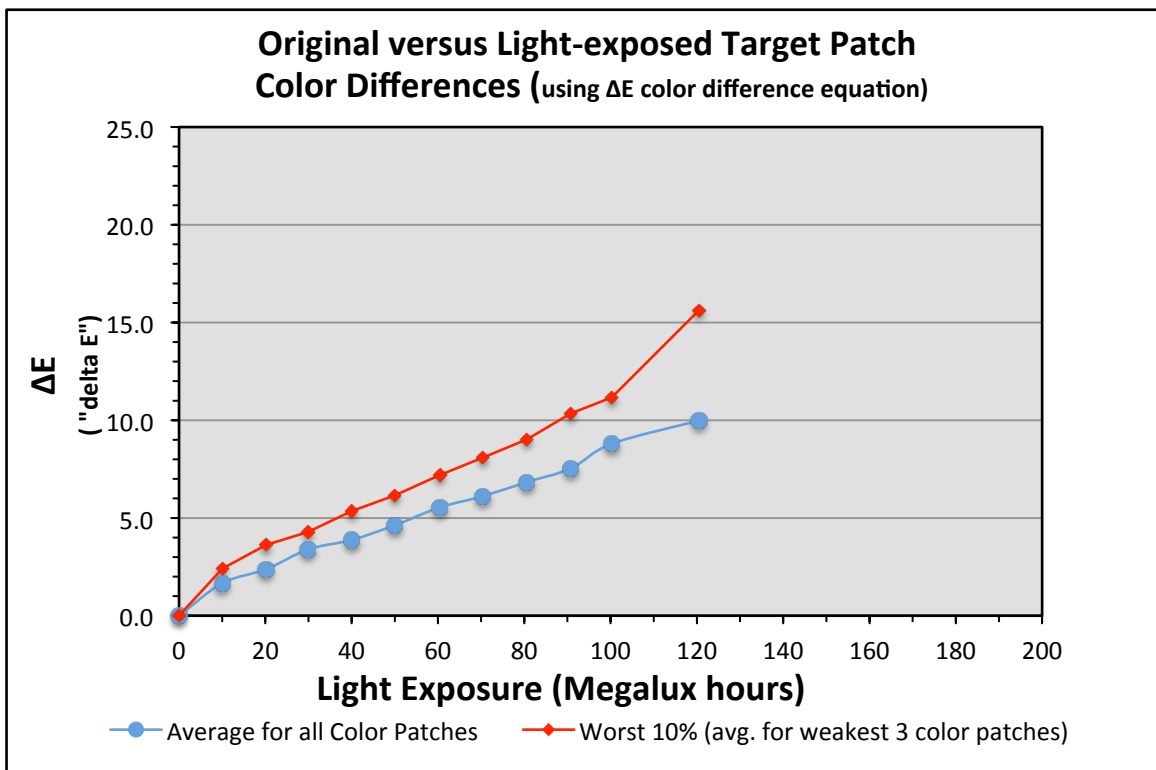
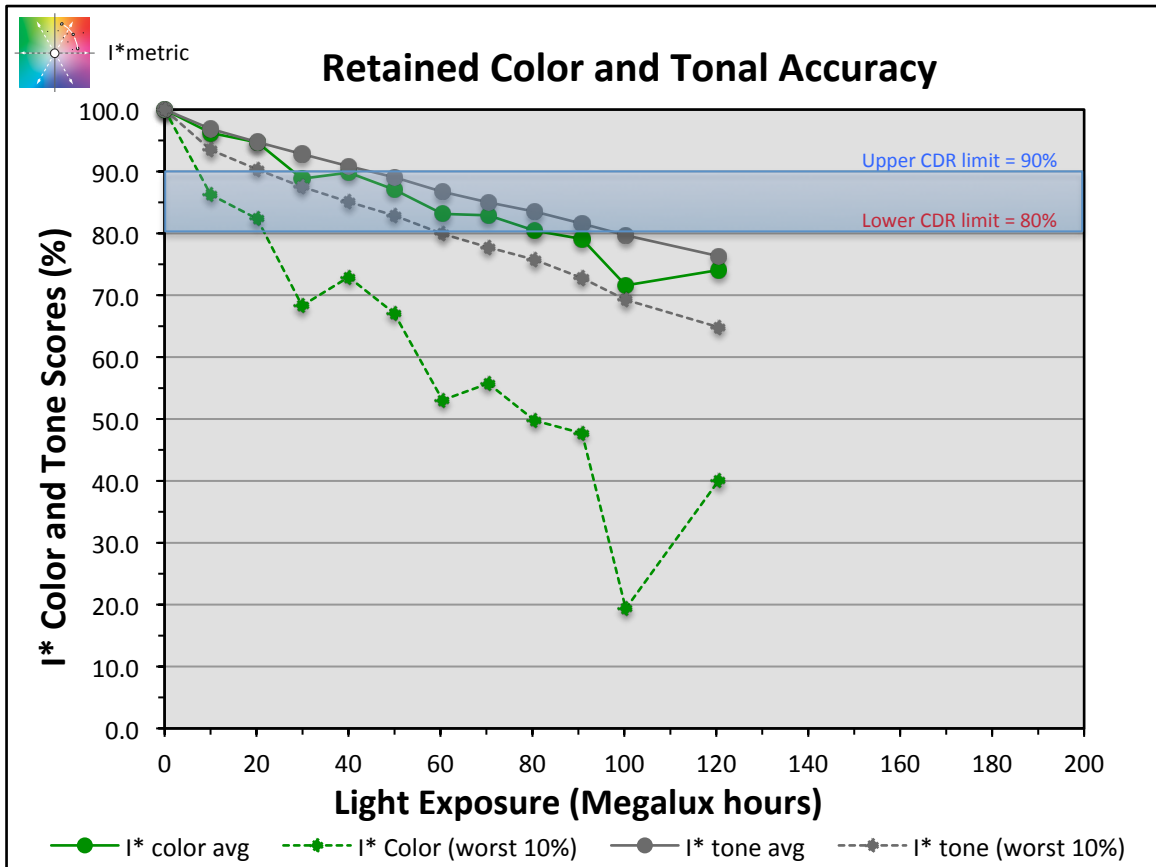
Notes/Comments:

Graphs:

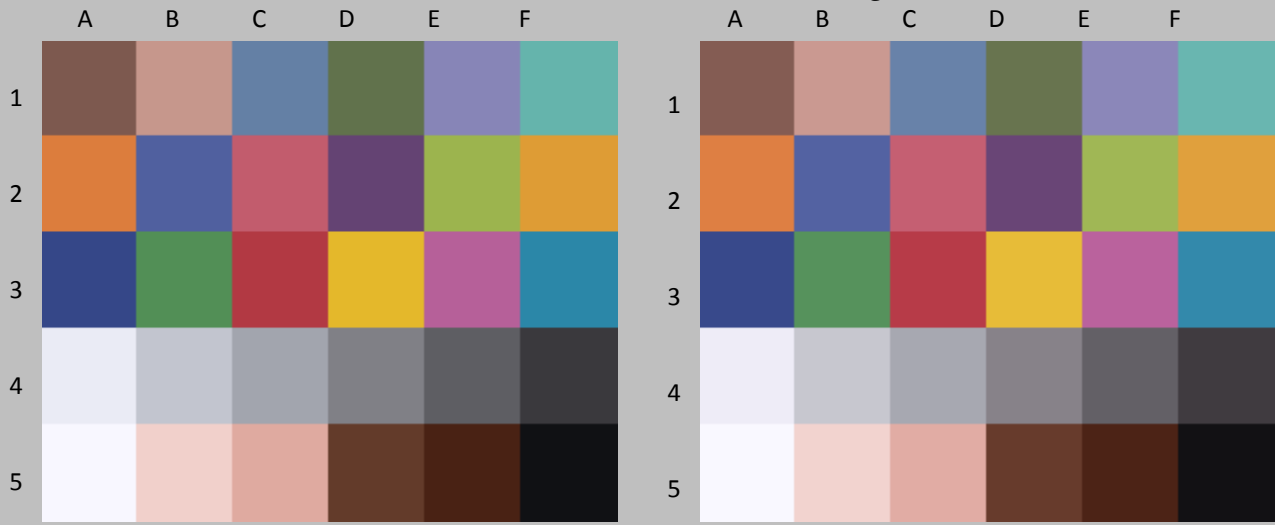
*Canon Pixma Pro-100, Canon Chromalife 100+ ( 8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating*



Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating

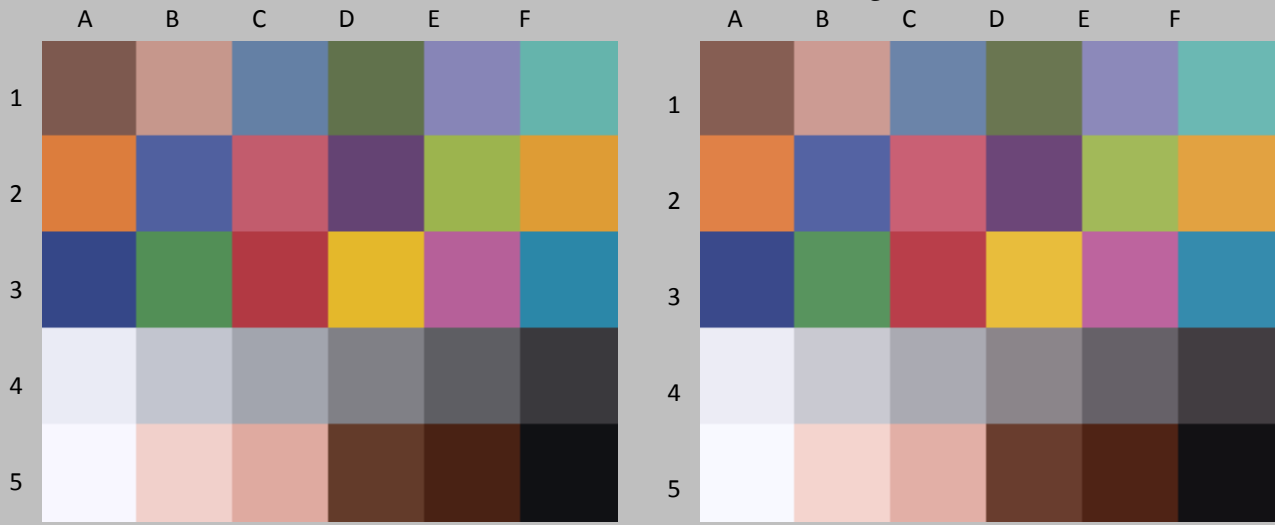


Original Print Colors before light exposure

Colors After light exposure

Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	93.4	2.2	41.7	43.1	13.9	15.6	12.1	11.9	
B1	Light Skin	97.6	1.7	66.5	67.9	16.7	17.6	12.6	12.0	
C1	Blue sky	97.3	1.5	52.4	53.3	-3.0	-1.9	-23.5	-23.8	
D1	Foliage	93.4	2.3	45.8	47.0	-12.1	-10.2	19.5	18.9	
E1	blue flower	99.1	1.3	57.1	58.1	8.8	9.6	-25.7	-25.8	
F1	bluish green	96.6	1.6	68.4	69.1	-27.2	-26.0	-3.9	-4.7	
A1	orange	97.6	2.3	62.2	63.3	34.1	34.0	50.1	48.1	
B2	purplish blue	99.1	1.2	41.7	42.6	7.7	8.5	-37.1	-37.5	
C2	moderate red	97.9	1.9	52.5	53.7	42.8	43.4	11.1	9.9	
D2	purple	97.4	1.7	33.7	34.8	22.1	23.4	-21.9	-22.3	
E2	yellow green	96.7	2.5	69.9	71.0	-19.9	-19.0	48.3	46.2	
F2	orange yellow	97.8	2.3	69.8	71.1	18.6	18.4	60.6	58.7	
A3	blue	99.3	1.1	31.4	32.1	9.2	9.9	-39.4	-39.8	
B3	green	96.1	2.2	54.3	55.3	-30.3	-29.0	23.9	22.4	
C3	red	98.1	1.9	43.3	44.4	49.8	50.9	23.0	21.9	
D3	yellow	97.7	2.4	77.1	78.3	7.2	6.9	70.6	68.5	
E3	magenta	99.2	1.5	52.5	53.8	41.2	41.8	-15.5	-16.1	
F3	cyan	97.7	1.4	52.2	52.9	-18.8	-17.6	-26.0	-26.3	
A4	white	100.0	0.5	93.2	93.6	1.4	1.5	-4.7	-4.5	
B4	neutral 8	96.9	1.3	79.5	80.5	0.1	0.9	-4.6	-4.5	
C4	neutral 6.5	91.2	1.8	67.9	69.2	-0.2	1.1	-4.9	-5.0	
D4	neutral 5	86.8	2.2	53.7	55.0	0.8	2.5	-2.8	-3.0	
E4	neutral 3.5	85.7	2.2	39.9	41.1	0.6	2.5	-3.3	-3.5	
F4	black	86.3	2.1	24.4	25.4	0.8	2.6	-2.3	-2.3	
A5	paper white	100.0	0.3	97.7	97.9	1.6	1.5	-6.2	-6.1	
B5	Skin highlight L*=88	100.0	0.9	86.3	87.1	11.5	11.2	6.6	6.1	
C5	Skin highlight L* =75	98.6	1.4	74.3	75.5	18.5	18.6	13.1	12.3	
D5	Skin shadow L*=28	94.3	2.2	29.3	30.3	16.9	18.8	17.8	18.1	
E5	Skin shadow L*=13	95.1	1.9	18.7	19.5	18.0	19.5	17.6	18.4	
F5	Maximum Black	100.0	0.3	4.9	5.1	0.4	0.6	-2.1	-1.9	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>10 Megalux hours</b>					
Average Score for all patches		96.2	96.9	1.7						
Worst 10% (3 lowest scoring patches)		86.3	93.5	2.4						

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



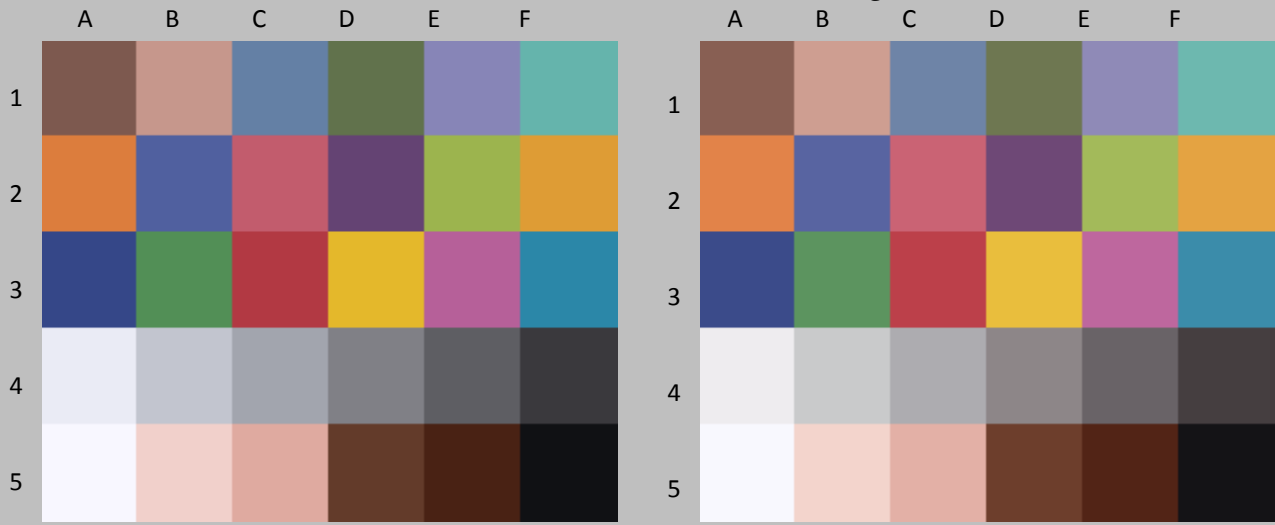
Original Print Colors before light exposure

Colors After light exposure

Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	90.8	3.2	41.7	44.0	13.9	16.1	12.1	12.6	
B1	Light Skin	98.3	2.4	66.5	68.8	16.7	17.6	12.6	12.4	
C1	Blue sky	97.5	2.0	52.4	54.0	-3.0	-2.0	-23.5	-23.0	
D1	Foliage	92.5	3.0	45.8	47.9	-12.1	-9.9	19.5	19.4	
E1	blue flower	98.5	1.9	57.1	58.8	8.8	9.4	-25.7	-25.0	
F1	bluish green	96.2	2.0	68.4	69.6	-27.2	-25.8	-3.9	-4.6	
A2	orange	96.3	3.3	62.2	64.1	34.1	34.0	50.1	47.3	
B2	purplish blue	99.7	1.5	41.7	43.2	7.7	8.2	-37.1	-36.7	
C2	moderate red	98.0	2.5	52.5	54.6	42.8	43.6	11.1	10.0	
D2	purple	97.1	2.3	33.7	35.6	22.1	23.5	-21.9	-21.6	
E2	yellow green	94.8	3.7	69.9	71.7	-19.9	-18.9	48.3	45.2	
F2	orange yellow	96.2	3.5	69.8	71.8	18.6	18.3	60.6	57.7	
A3	blue	100.0	1.4	31.4	32.7	9.2	9.7	-39.4	-39.3	
B3	green	94.8	3.1	54.3	56.0	-30.3	-28.7	23.9	22.0	
C3	red	97.8	2.6	43.3	45.2	49.8	51.2	23.0	22.0	
D3	yellow	96.1	3.7	77.1	78.9	7.2	6.8	70.6	67.3	
E3	magenta	99.9	2.1	52.5	54.5	41.2	41.7	-15.5	-15.5	
F3	cyan	98.1	1.8	52.2	53.6	-18.8	-17.7	-26.0	-25.6	
A4	white	93.3	1.3	93.2	93.8	1.4	1.2	-4.7	-3.6	
B4	neutral 8	92.8	1.9	79.5	81.0	0.1	0.7	-4.6	-3.6	
C4	neutral 6.5	89.4	2.5	67.9	70.0	-0.2	1.1	-4.9	-4.2	
D4	neutral 5	84.1	3.0	53.7	55.9	0.8	2.7	-2.8	-2.2	
E4	neutral 3.5	82.3	3.0	39.9	42.0	0.6	2.7	-3.3	-2.8	
F4	black	80.6	2.9	24.4	26.1	0.8	3.0	-2.3	-1.7	
A5	paper white	94.2	1.1	97.7	97.9	1.6	1.2	-6.2	-5.3	
B5	Skin highlight L*=88	99.4	1.3	86.3	87.5	11.5	10.9	6.6	6.5	
C5	Skin highlight L* =75	98.9	1.9	74.3	76.1	18.5	18.4	13.1	12.4	
D5	Skin shadow L*=28	92.4	3.0	29.3	31.2	16.9	19.2	17.8	18.5	
E5	Skin shadow L*=13	91.3	3.0	18.7	20.1	18.0	20.2	17.6	19.0	
F5	Maximum Black	100.0	0.4	4.9	5.2	0.4	0.7	-2.1	-2.0	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>20 Megalux hours</b>					
Average Score for all patches		94.7	94.8	2.4						
Worst 10% (3 lowest scoring patches)		82.3	90.3	3.6						



Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating

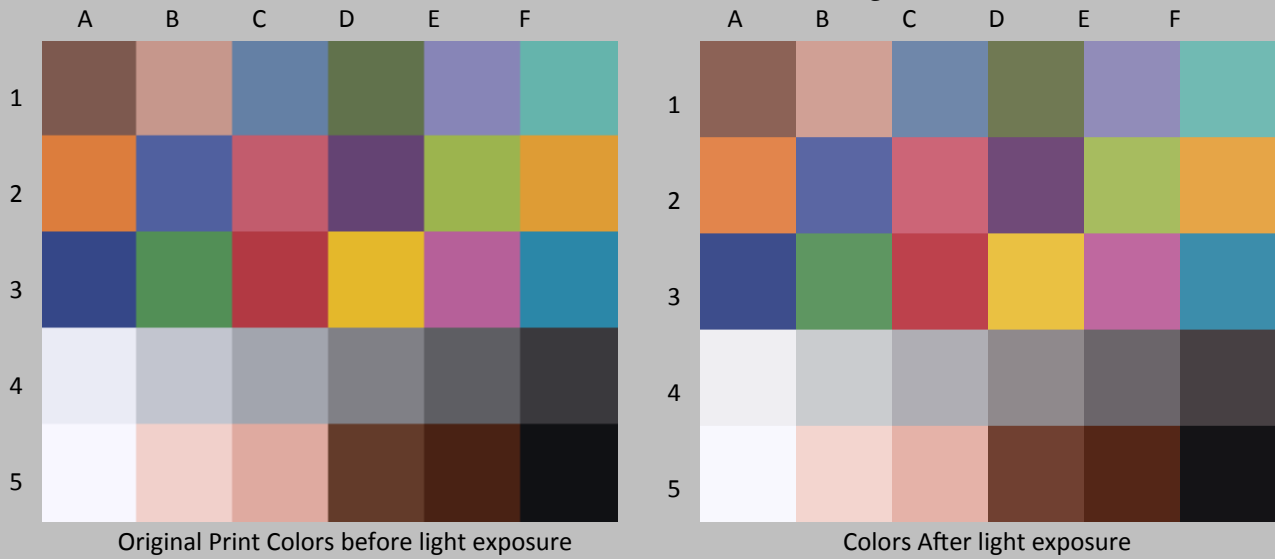


Original Print Colors before light exposure

Colors After light exposure

Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	86.2	4.4	41.7	44.9	13.9	16.2	12.1	14.1	
B1	Light Skin	95.5	3.2	66.5	69.4	16.7	17.4	12.6	13.9	
C1	Blue sky	91.4	3.3	52.4	54.5	-3.0	-2.3	-23.5	-21.0	
D1	Foliage	90.0	3.9	45.8	48.6	-12.1	-9.5	19.5	20.5	
E1	blue flower	92.0	3.4	57.1	59.2	8.8	9.0	-25.7	-23.0	
F1	bluish green	95.9	2.2	68.4	69.9	-27.2	-25.7	-3.9	-3.2	
A2	orange	96.5	3.6	62.2	64.6	34.1	33.8	50.1	47.5	
B2	purplish blue	95.4	2.9	41.7	43.6	7.7	7.6	-37.1	-34.8	
C2	moderate red	99.7	2.9	52.5	55.3	42.8	43.4	11.1	11.2	
D2	purple	94.2	3.5	33.7	36.3	22.1	23.2	-21.9	-19.8	
E2	yellow green	94.4	4.0	69.9	72.1	-19.9	-18.5	48.3	45.1	
F2	orange yellow	96.2	3.8	69.8	72.3	18.6	18.3	60.6	57.7	
A3	blue	96.5	2.6	31.4	33.1	9.2	9.0	-39.4	-37.5	
B3	green	94.6	3.4	54.3	56.5	-30.3	-28.2	23.9	22.4	
C3	red	98.6	2.9	43.3	46.0	49.8	51.1	23.0	23.0	
D3	yellow	95.8	4.1	77.1	79.3	7.2	6.8	70.6	67.1	
E3	magenta	97.1	3.1	52.5	55.1	41.2	41.2	-15.5	-13.7	
F3	cyan	94.3	2.9	52.2	54.0	-18.8	-18.0	-26.0	-23.8	
A4	white	67.3	3.6	93.2	93.7	1.4	0.7	-4.7	-1.2	
B4	neutral 8	71.8	3.7	79.5	81.3	0.1	0.4	-4.6	-1.4	
C4	neutral 6.5	74.9	3.8	67.9	70.4	-0.2	0.9	-4.9	-2.3	
D4	neutral 5	73.3	4.2	53.7	56.6	0.8	2.7	-2.8	-0.4	
E4	neutral 3.5	72.9	4.2	39.9	42.7	0.6	2.9	-3.3	-1.2	
F4	black	69.8	4.2	24.4	26.9	0.8	3.5	-2.3	-0.3	
A5	paper white	67.8	3.6	97.7	97.5	1.6	0.7	-6.2	-2.8	
B5	Skin highlight L*=88	89.7	2.2	86.3	87.5	11.5	10.4	6.6	8.1	
C5	Skin highlight L* =75	99.8	2.2	74.3	76.5	18.5	18.1	13.1	13.5	
D5	Skin shadow L*=28	88.9	4.2	29.3	31.9	16.9	19.6	17.8	19.6	
E5	Skin shadow L*=13	87.6	4.3	18.7	20.9	18.0	20.8	17.6	19.8	
F5	Maximum Black	96.4	1.3	4.9	5.9	0.4	1.0	-2.1	-1.5	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>30 Megalux hours</b>					
Average Score for all patches		88.8	92.8	3.4						
Worst 10% (3 lowest scoring patches)		68.3	87.5	4.3						

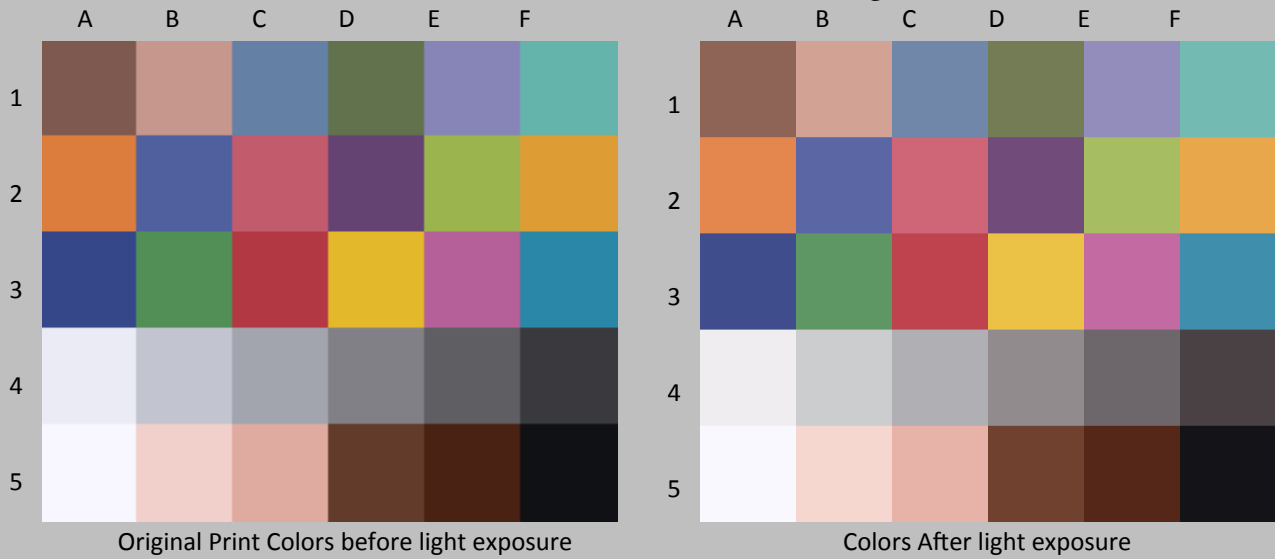
Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	86.6	5.0	41.7	45.8	13.9	16.4	12.1	13.8
B1	Light Skin	97.9	3.8	66.5	70.2	16.7	17.3	12.6	13.3
C1	Blue sky	92.9	3.6	52.4	55.2	-3.0	-2.0	-23.5	-21.5
D1	Foliage	90.1	4.7	45.8	49.6	-12.1	-9.4	19.5	20.1
E1	blue flower	93.4	3.6	57.1	59.9	8.8	9.2	-25.7	-23.4
F1	bluish green	94.3	2.9	68.4	70.4	-27.2	-25.1	-3.9	-3.9
A1	orange	94.1	5.1	62.2	65.2	34.1	33.5	50.1	46.1
B2	purplish blue	96.8	2.9	41.7	44.1	7.7	7.8	-37.1	-35.4
C2	moderate red	98.7	3.6	52.5	55.9	42.8	43.4	11.1	10.2
D2	purple	95.6	3.8	33.7	37.1	22.1	23.4	-21.9	-20.4
E2	yellow green	92.2	5.4	69.9	72.8	-19.9	-18.4	48.3	43.9
F2	orange yellow	94.2	5.2	69.8	73.0	18.6	17.9	60.6	56.5
A3	blue	97.6	2.8	31.4	33.7	9.2	9.1	-39.4	-38.0
B3	green	92.7	4.4	54.3	57.2	-30.3	-28.0	23.9	21.5
C3	red	97.7	3.6	43.3	46.5	49.8	51.2	23.0	22.0
D3	yellow	94.0	5.5	77.1	79.9	7.2	6.4	70.6	65.9
E3	magenta	98.9	3.4	52.5	55.8	41.2	41.3	-15.5	-14.5
F3	cyan	95.1	3.2	52.2	54.6	-18.8	-17.5	-26.0	-24.3
A4	white	73.5	3.1	93.2	94.0	1.4	0.8	-4.7	-1.8
B4	neutral 8	76.4	3.7	79.5	82.0	0.1	0.5	-4.6	-1.9
C4	neutral 6.5	78.7	4.2	67.9	71.3	-0.2	1.1	-4.9	-2.8
D4	neutral 5	75.4	4.8	53.7	57.6	0.8	2.9	-2.8	-0.9
E4	neutral 3.5	74.5	4.8	39.9	43.7	0.6	3.1	-3.3	-1.7
F4	black	71.3	4.6	24.4	27.7	0.8	3.6	-2.3	-0.8
A5	paper white	73.9	3.0	97.7	97.7	1.6	0.7	-6.2	-3.4
B5	Skin highlight L*=88	91.8	2.3	86.3	88.0	11.5	10.1	6.6	7.4
C5	Skin highlight L* =75	99.0	2.9	74.3	77.2	18.5	17.9	13.1	12.8
D5	Skin shadow L*=28	89.1	4.7	29.3	32.8	16.9	19.7	17.8	19.4
E5	Skin shadow L*=13	87.9	4.5	18.7	21.5	18.0	20.9	17.6	19.5
F5	Maximum Black	100.0	1.2	4.9	6.0	0.4	0.8	-2.1	-1.8
<b>Summary Results</b>		I* Color	I* tone	ΔE					
Average Score for all patches		89.8	90.9	3.9					
Worst 10% (3 lowest scoring patches)		72.9	85.1	5.4					

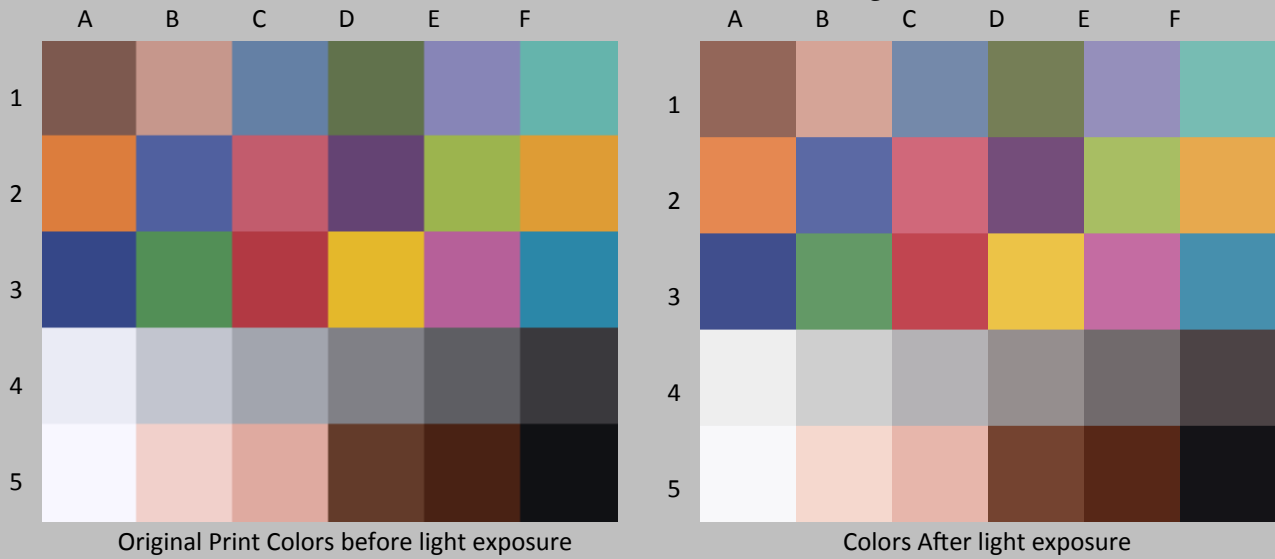
40 Megalux hours

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



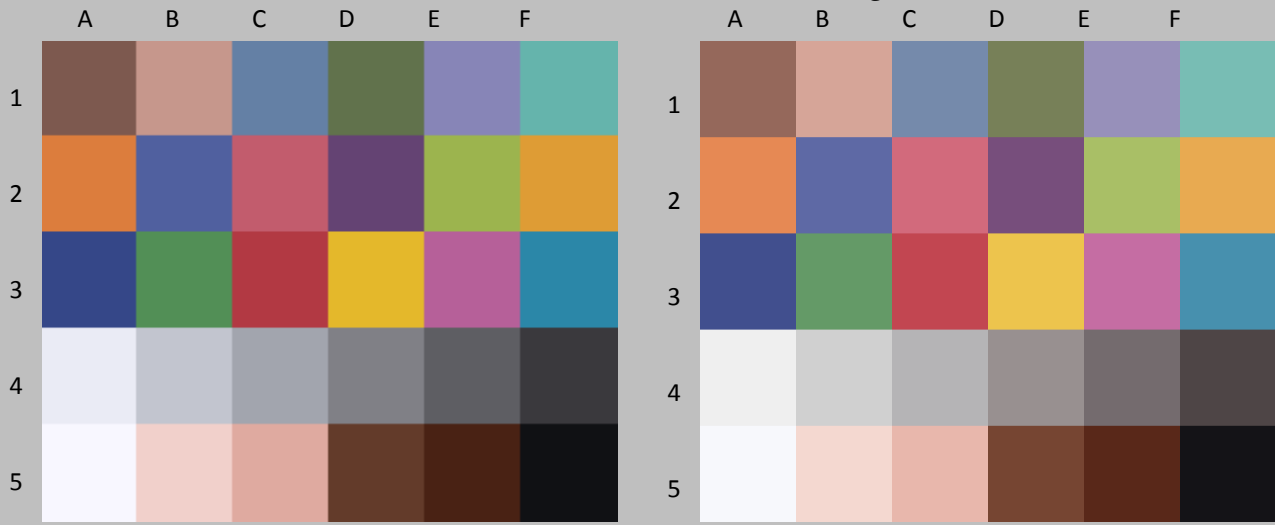
Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	83.7	6.1	41.7	46.7	13.9	16.4	12.1	14.5	
B1	Light Skin	96.5	4.5	66.5	70.9	16.7	17.3	12.6	13.7	
C1	Blue sky	90.0	4.5	52.4	55.8	-3.0	-1.9	-23.5	-20.8	
D1	Foliage	88.7	5.5	45.8	50.4	-12.1	-9.2	19.5	20.6	
E1	blue flower	90.3	4.6	57.1	60.5	8.8	9.2	-25.7	-22.6	
F1	bluish green	93.1	3.5	68.4	70.9	-27.2	-24.8	-3.9	-3.5	
A1	orange	93.5	5.7	62.2	65.8	34.1	33.3	50.1	45.7	
B2	purplish blue	94.6	3.8	41.7	44.6	7.7	7.6	-37.1	-34.5	
C2	moderate red	99.4	4.2	52.5	56.6	42.8	43.3	11.1	10.6	
D2	purple	93.2	4.8	33.7	37.7	22.1	23.4	-21.9	-19.6	
E2	yellow green	91.2	6.1	69.9	73.3	-19.9	-18.2	48.3	43.5	
F2	orange yellow	93.5	5.9	69.8	73.4	18.6	17.8	60.6	56.1	
A3	blue	95.8	3.5	31.4	34.1	9.2	8.9	-39.4	-37.2	
B3	green	91.9	5.0	54.3	57.8	-30.3	-27.7	23.9	21.4	
C3	red	98.0	4.1	43.3	47.1	49.8	51.3	23.0	22.4	
D3	yellow	93.0	6.3	77.1	80.3	7.2	6.3	70.6	65.2	
E3	magenta	97.2	4.2	52.5	56.4	41.2	41.1	-15.5	-13.7	
F3	cyan	93.2	3.9	52.2	55.0	-18.8	-17.5	-26.0	-23.6	
A4	white	68.4	3.6	93.2	94.1	1.4	0.7	-4.7	-1.3	
B4	neutral 8	69.4	4.5	79.5	82.4	0.1	0.5	-4.6	-1.2	
C4	neutral 6.5	71.0	5.1	67.9	71.9	-0.2	1.1	-4.9	-1.9	
D4	neutral 5	67.9	5.9	53.7	58.3	0.8	3.0	-2.8	0.0	
E4	neutral 3.5	68.0	5.7	39.9	44.4	0.6	3.2	-3.3	-0.9	
F4	black	65.3	5.5	24.4	28.4	0.8	3.7	-2.3	0.1	
A5	paper white	68.7	3.5	97.7	97.6	1.6	0.7	-6.2	-2.9	
B5	Skin highlight L*=88	89.4	2.7	86.3	88.2	11.5	10.0	6.6	7.8	
C5	Skin highlight L* =75	98.7	3.3	74.3	77.5	18.5	17.7	13.1	13.0	
D5	Skin shadow L*=28	86.6	5.6	29.3	33.4	16.9	19.9	17.8	20.2	
E5	Skin shadow L*=13	85.0	5.5	18.7	22.2	18.0	21.2	17.6	20.3	
F5	Maximum Black	97.2	1.5	4.9	6.3	0.4	1.1	-2.1	-1.7	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>50 Megalux hours</b>					
Average Score for all patches		87.1	89.1	4.6						
Worst 10% (3 lowest scoring patches)		67.1	82.9	6.2						

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	79.8	7.3	41.7	47.7	13.9	16.6	12.1	15.4	
B1	Light Skin	94.2	5.3	66.5	71.6	16.7	17.2	12.6	14.2	
C1	Blue sky	86.5	5.5	52.4	56.4	-3.0	-1.9	-23.5	-19.9	
D1	Foliage	86.6	6.6	45.8	51.3	-12.1	-9.0	19.5	21.3	
E1	blue flower	86.5	5.7	57.1	61.1	8.8	9.1	-25.7	-21.5	
F1	bluish green	91.0	4.1	68.4	71.3	-27.2	-24.4	-3.9	-2.9	
A1	orange	92.3	6.6	62.2	66.3	34.1	32.9	50.1	45.1	
B2	purplish blue	93.3	4.6	41.7	45.2	7.7	7.3	-37.1	-34.0	
C2	moderate red	99.5	4.9	52.5	57.3	42.8	43.1	11.1	10.5	
D2	purple	92.9	5.4	33.7	38.5	22.1	23.3	-21.9	-19.4	
E2	yellow green	90.6	6.7	69.9	73.8	-19.9	-18.0	48.3	43.2	
F2	orange yellow	92.5	6.7	69.8	74.0	18.6	17.4	60.6	55.5	
A3	blue	95.1	4.1	31.4	34.7	9.2	8.5	-39.4	-37.0	
B3	green	91.6	5.6	54.3	58.4	-30.3	-27.5	23.9	21.5	
C3	red	97.6	4.8	43.3	47.7	49.8	51.3	23.0	22.0	
D3	yellow	92.1	7.1	77.1	80.7	7.2	6.0	70.6	64.6	
E3	magenta	96.2	5.1	52.5	57.2	41.2	40.9	-15.5	-13.3	
F3	cyan	91.1	4.8	52.2	55.6	-18.8	-17.5	-26.0	-22.9	
A4	white	51.7	5.2	93.2	94.2	1.4	0.4	-4.7	0.3	
B4	neutral 8	57.1	5.8	79.5	83.0	0.1	0.4	-4.6	0.0	
C4	neutral 6.5	61.2	6.4	67.9	72.8	-0.2	1.2	-4.9	-1.0	
D4	neutral 5	59.2	7.3	53.7	59.5	0.8	3.3	-2.8	0.8	
E4	neutral 3.5	61.6	6.9	39.9	45.5	0.6	3.4	-3.3	-0.2	
F4	black	60.7	6.4	24.4	29.3	0.8	4.0	-2.3	0.5	
A5	paper white	50.4	5.2	97.7	97.6	1.6	0.3	-6.2	-1.2	
B5	Skin highlight L*=88	82.5	3.6	86.3	88.5	11.5	9.5	6.6	8.6	
C5	Skin highlight L* =75	97.1	4.1	74.3	78.2	18.5	17.4	13.1	13.3	
D5	Skin shadow L*=28	84.9	6.6	29.3	34.3	16.9	20.0	17.8	20.6	
E5	Skin shadow L*=13	82.3	6.3	18.7	22.5	18.0	21.6	17.6	20.9	
F5	Maximum Black	96.9	1.6	4.9	6.3	0.4	1.0	-2.1	-1.7	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>60 Megalux hours</b>					
Average Score for all patches		83.2	86.7	5.5						
Worst 10% (3 lowest scoring patches)		53.1	79.9	7.2						

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating

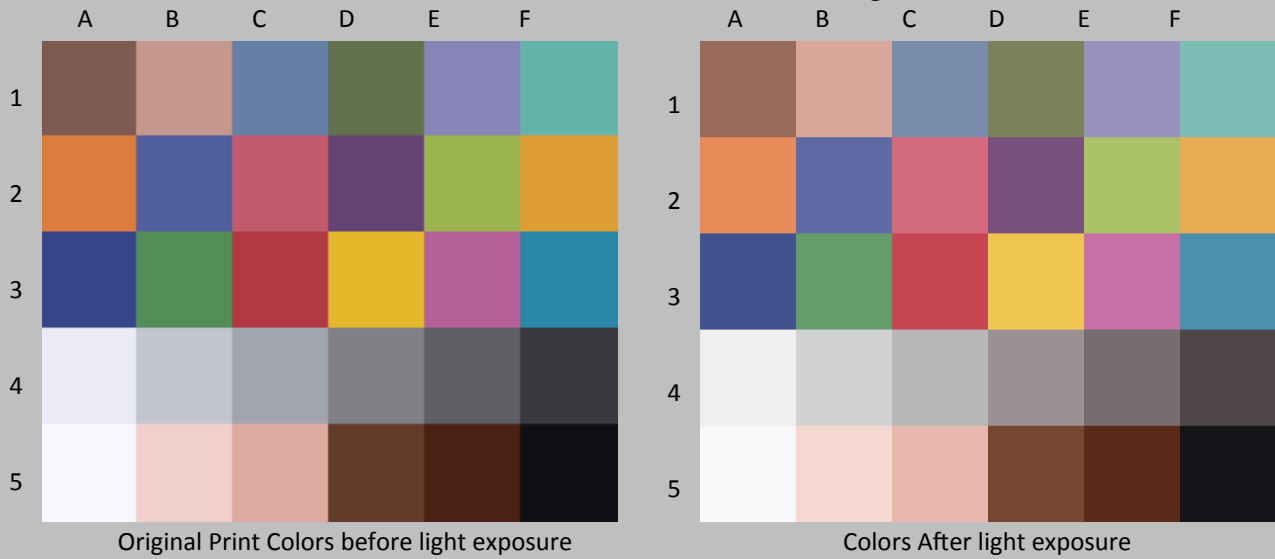


Original Print Colors before light exposure

Colors After light exposure

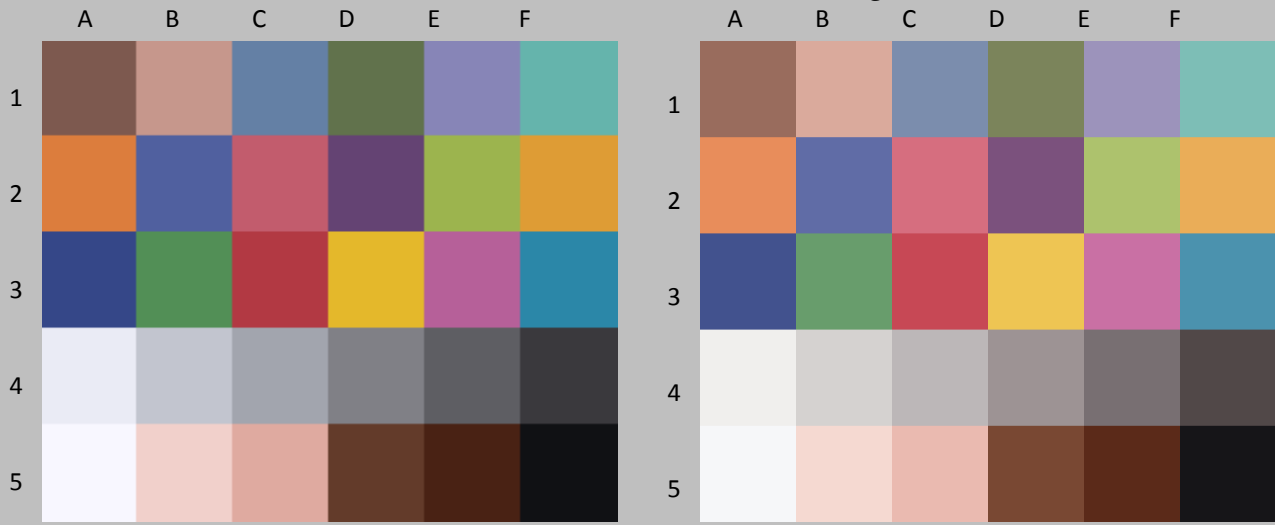
Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	79.2	8.0	41.7	48.5	13.9	16.7	12.1	15.4	
B1	Light Skin	96.0	5.9	66.5	72.3	16.7	17.2	12.6	13.9	
C1	Blue sky	86.1	6.0	52.4	57.1	-3.0	-1.6	-23.5	-19.9	
D1	Foliage	86.9	7.2	45.8	52.1	-12.1	-9.0	19.5	21.0	
E1	blue flower	86.0	6.3	57.1	61.7	8.8	9.4	-25.7	-21.4	
F1	bluish green	89.1	4.8	68.4	71.7	-27.2	-23.8	-3.9	-3.1	
A2	orange	90.4	7.9	62.2	66.9	34.1	32.7	50.1	43.9	
B2	purplish blue	93.1	5.0	41.7	45.6	7.7	7.5	-37.1	-33.9	
C2	moderate red	98.5	5.6	52.5	57.9	42.8	43.2	11.1	10.0	
D2	purple	92.3	6.1	33.7	39.1	22.1	23.5	-21.9	-19.3	
E2	yellow green	88.7	7.8	69.9	74.3	-19.9	-17.8	48.3	42.2	
F2	orange yellow	90.8	7.9	69.8	74.5	18.6	17.2	60.6	54.4	
A3	blue	95.0	4.5	31.4	35.1	9.2	8.6	-39.4	-37.0	
B3	green	89.8	6.5	54.3	59.0	-30.3	-27.2	23.9	20.8	
C3	red	97.1	5.4	43.3	48.3	49.8	51.4	23.0	21.7	
D3	yellow	90.4	8.3	77.1	81.1	7.2	5.7	70.6	63.4	
E3	magenta	96.3	5.7	52.5	57.8	41.2	40.9	-15.5	-13.4	
F3	cyan	90.7	5.2	52.2	56.1	-18.8	-17.0	-26.0	-23.0	
A4	white	55.1	4.9	93.2	94.4	1.4	0.4	-4.7	0.0	
B4	neutral 8	58.0	6.0	79.5	83.5	0.1	0.4	-4.6	-0.1	
C4	neutral 6.5	61.4	6.9	67.9	73.5	-0.2	1.3	-4.9	-1.1	
D4	neutral 5	59.5	7.9	53.7	60.3	0.8	3.5	-2.8	0.7	
E4	neutral 3.5	61.2	7.7	39.9	46.3	0.6	3.6	-3.3	-0.3	
F4	black	59.4	7.1	24.4	30.0	0.8	4.1	-2.3	0.5	
A5	paper white	54.2	4.9	97.7	97.6	1.6	0.3	-6.2	-1.6	
B5	Skin highlight L*=88	84.0	3.6	86.3	88.8	11.5	9.3	6.6	8.1	
C5	Skin highlight L* =75	96.4	4.6	74.3	78.7	18.5	17.2	13.1	12.8	
D5	Skin shadow L*=28	83.7	7.3	29.3	34.9	16.9	20.2	17.8	20.9	
E5	Skin shadow L*=13	80.8	6.9	18.7	23.0	18.0	21.8	17.6	21.2	
F5	Maximum Black	97.1	1.6	4.9	6.4	0.4	1.1	-2.1	-1.9	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>70 Megalux hours</b>					
Average Score for all patches		82.9	85.0	6.1						
Worst 10% (3 lowest scoring patches)		55.7	77.8	8.1						

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	76.9	9.0	41.7	49.3	13.9	16.8	12.1	15.9	
B1	Light Skin	95.4	6.5	66.5	72.9	16.7	17.2	12.6	14.0	
C1	Blue sky	83.4	6.8	52.4	57.6	-3.0	-1.6	-23.5	-19.3	
D1	Foliage	86.0	7.9	45.8	52.8	-12.1	-8.7	19.5	21.1	
E1	blue flower	82.9	7.2	57.1	62.2	8.8	9.4	-25.7	-20.6	
F1	bluish green	87.6	5.4	68.4	72.1	-27.2	-23.5	-3.9	-2.6	
A1	orange	89.0	8.8	62.2	67.3	34.1	32.6	50.1	43.1	
B2	purplish blue	90.9	5.9	41.7	46.1	7.7	7.4	-37.1	-33.1	
C2	moderate red	98.6	6.1	52.5	58.5	42.8	43.1	11.1	10.0	
D2	purple	90.6	6.9	33.7	39.7	22.1	23.5	-21.9	-18.7	
E2	yellow green	87.4	8.6	69.9	74.7	-19.9	-17.5	48.3	41.6	
F2	orange yellow	89.3	8.9	69.8	74.9	18.6	17.1	60.6	53.5	
A3	blue	93.2	5.2	31.4	35.5	9.2	8.4	-39.4	-36.3	
B3	green	88.7	7.1	54.3	59.5	-30.3	-26.9	23.9	20.5	
C3	red	97.0	5.9	43.3	48.9	49.8	51.5	23.0	21.7	
D3	yellow	89.2	9.2	77.1	81.4	7.2	5.7	70.6	62.5	
E3	magenta	94.9	6.4	52.5	58.3	41.2	40.9	-15.5	-12.7	
F3	cyan	88.9	6.0	52.2	56.5	-18.8	-17.1	-26.0	-22.3	
A4	white	49.1	5.5	93.2	94.5	1.4	0.3	-4.7	0.5	
B4	neutral 8	51.8	6.7	79.5	83.9	0.1	0.4	-4.6	0.5	
C4	neutral 6.5	54.8	7.8	67.9	74.1	-0.2	1.4	-4.9	-0.4	
D4	neutral 5	54.3	8.8	53.7	61.0	0.8	3.6	-2.8	1.2	
E4	neutral 3.5	56.4	8.5	39.9	47.0	0.6	3.7	-3.3	0.2	
F4	black	55.3	7.8	24.4	30.6	0.8	4.2	-2.3	0.9	
A5	paper white	48.3	5.4	97.7	97.6	1.6	0.2	-6.2	-1.0	
B5	Skin highlight L*=88	81.7	4.0	86.3	89.0	11.5	9.2	6.6	8.4	
C5	Skin highlight L* =75	95.8	5.0	74.3	79.1	18.5	17.1	13.1	12.8	
D5	Skin shadow L*=28	81.2	8.1	29.3	35.5	16.9	20.3	17.8	21.6	
E5	Skin shadow L*=13	78.9	7.6	18.7	23.5	18.0	22.0	17.6	21.7	
F5	Maximum Black	95.6	2.0	4.9	6.8	0.4	1.3	-2.1	-1.8	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>80 Megalux hours</b>					
Average Score for all patches		80.4	83.5	6.8						
Worst 10% (3 lowest scoring patches)		49.7	75.7	9.0						

Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



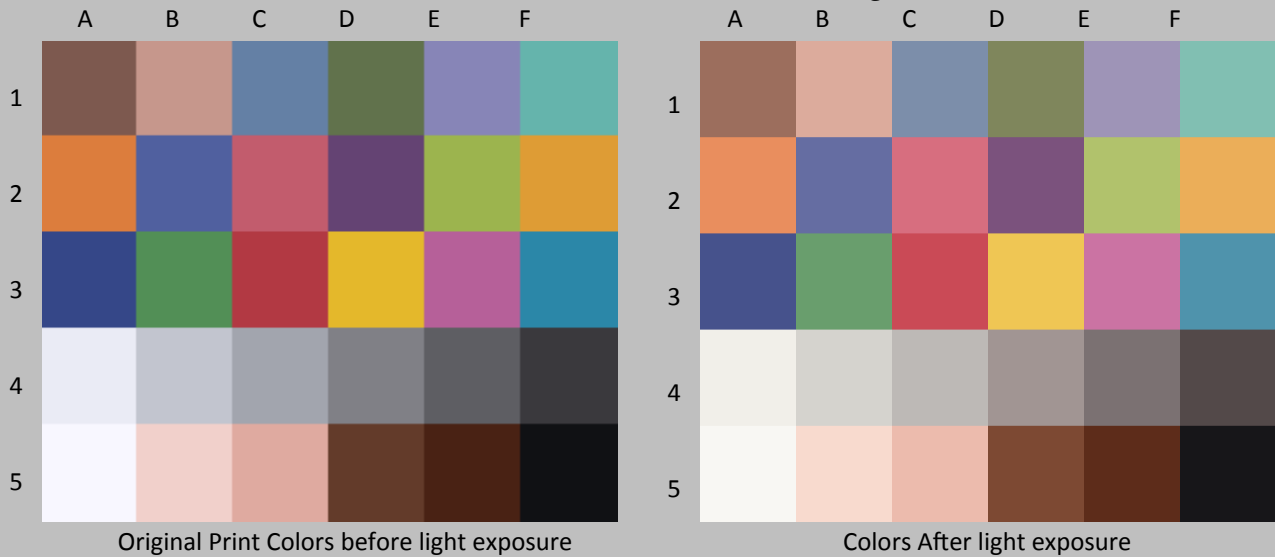
Original Print Colors before light exposure

Colors After light exposure

Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	75.7	9.9	41.7	50.3	13.9	16.9	12.1	16.1
B1	Light Skin	96.4	7.1	66.5	73.6	16.7	17.2	12.6	13.8
C1	Blue sky	81.4	7.5	52.4	58.1	-3.0	-1.4	-23.5	-18.8
D1	Foliage	85.9	8.7	45.8	53.7	-12.1	-8.6	19.5	20.8
E1	blue flower	80.9	8.0	57.1	62.8	8.8	9.5	-25.7	-20.0
F1	bluish green	85.4	6.2	68.4	72.6	-27.2	-22.9	-3.9	-2.6
A1	orange	86.8	10.2	62.2	67.8	34.1	32.4	50.1	41.8
B2	purplish blue	89.5	6.5	41.7	46.5	7.7	7.4	-37.1	-32.6
C2	moderate red	97.8	6.9	52.5	59.2	42.8	43.1	11.1	9.7
D2	purple	89.3	7.6	33.7	40.3	22.1	23.6	-21.9	-18.3
E2	yellow green	85.1	9.8	69.9	75.2	-19.9	-17.2	48.3	40.5
F2	orange yellow	87.2	10.2	69.8	75.4	18.6	16.9	60.6	52.2
A3	blue	92.1	5.8	31.4	35.8	9.2	8.3	-39.4	-35.8
B3	green	86.6	8.0	54.3	60.0	-30.3	-26.4	23.9	19.8
C3	red	96.7	6.5	43.3	49.4	49.8	51.5	23.0	21.5
D3	yellow	87.2	10.6	77.1	81.7	7.2	5.6	70.6	61.1
E3	magenta	94.2	7.1	52.5	58.9	41.2	40.8	-15.5	-12.4
F3	cyan	87.4	6.6	52.2	56.9	-18.8	-16.7	-26.0	-22.0
A4	white	47.2	5.7	93.2	94.5	1.4	0.3	-4.7	0.7
B4	neutral 8	48.9	7.2	79.5	84.3	0.1	0.5	-4.6	0.7
C4	neutral 6.5	52.0	8.5	67.9	74.7	-0.2	1.6	-4.9	-0.2
D4	neutral 5	52.3	9.6	53.7	61.8	0.8	3.8	-2.8	1.3
E4	neutral 3.5	55.6	9.2	39.9	47.9	0.6	3.8	-3.3	0.2
F4	black	54.3	8.5	24.4	31.4	0.8	4.2	-2.3	1.1
A5	paper white	47.0	5.5	97.7	97.4	1.6	0.2	-6.2	-0.9
B5	Skin highlight L*=88	81.7	4.1	86.3	89.1	11.5	9.0	6.6	8.1
C5	Skin highlight L* =75	94.8	5.4	74.3	79.5	18.5	17.0	13.1	12.4
D5	Skin shadow L*=28	80.5	8.8	29.3	36.2	16.9	20.4	17.8	21.8
E5	Skin shadow L*=13	78.0	8.1	18.7	24.1	18.0	22.1	17.6	21.9
F5	Maximum Black	94.8	2.2	4.9	6.9	0.4	1.3	-2.1	-1.7
<b>Summary Results</b>		I* Color	I* tone	ΔE					
Average Score for all patches		79.1	81.6	7.5					
Worst 10% (3 lowest scoring patches)		47.7	72.8	10.4					

90 Megalux hours

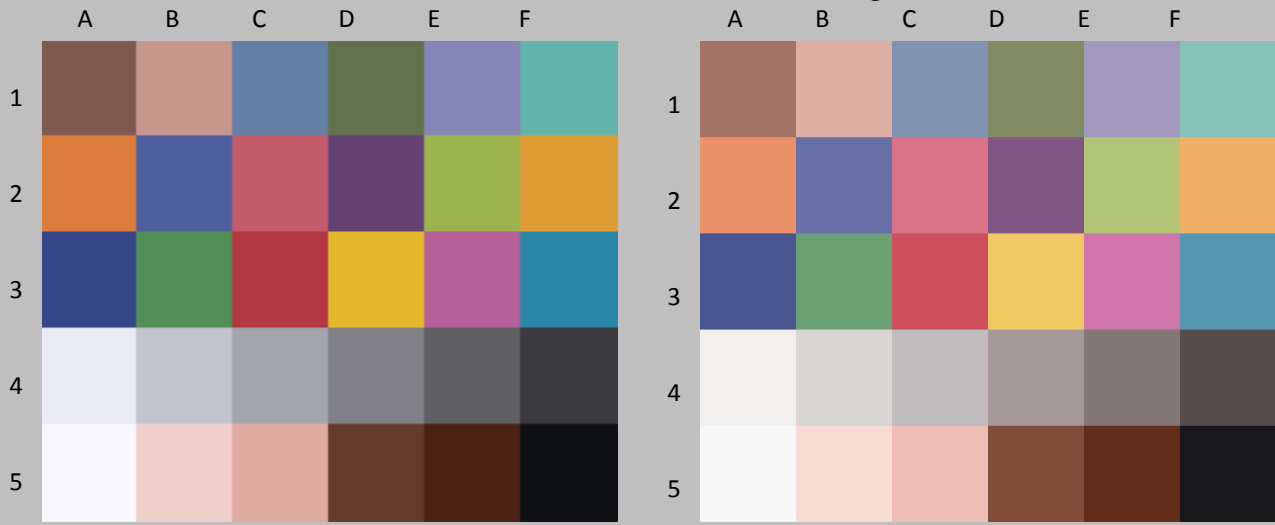
Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*		
				Before	After	Before	After	Before	After	
A1	Dark Skin	70.0	11.2	41.7	51.1	13.9	17.1	12.1	17.2	
B1	Light Skin	90.2	8.0	66.5	74.1	16.7	17.1	12.6	15.1	
C1	Blue sky	72.9	9.3	52.4	58.6	-3.0	-1.6	-23.5	-16.7	
D1	Foliage	83.1	9.6	45.8	54.4	-12.1	-8.2	19.5	21.6	
E1	blue flower	71.3	10.3	57.1	63.2	8.8	9.2	-25.7	-17.4	
F1	bluish green	80.9	7.3	68.4	72.9	-27.2	-22.6	-3.9	-0.5	
A1	orange	86.1	10.8	62.2	68.3	34.1	32.4	50.1	41.4	
B2	purplish blue	83.3	8.6	41.7	46.9	7.7	6.8	-37.1	-30.3	
C2	moderate red	100.0	7.3	52.5	59.8	42.8	43.0	11.1	10.7	
D2	purple	84.5	9.0	33.7	41.0	22.1	23.4	-21.9	-16.7	
E2	yellow green	84.6	10.2	69.9	75.5	-19.9	-16.1	48.3	40.6	
F2	orange yellow	86.5	10.9	69.8	75.8	18.6	17.0	60.6	51.7	
A3	blue	87.1	7.5	31.4	36.2	9.2	7.6	-39.4	-33.9	
B3	green	86.4	8.4	54.3	60.5	-30.3	-25.9	23.9	20.2	
C3	red	97.2	7.1	43.3	50.1	49.8	51.5	23.0	21.9	
D3	yellow	86.5	11.2	77.1	82.1	7.2	5.8	70.6	60.6	
E3	magenta	89.6	8.7	52.5	59.6	41.2	40.4	-15.5	-10.5	
F3	cyan	81.9	8.2	52.2	57.4	-18.8	-17.0	-26.0	-19.9	
A4	white	18.6	8.4	93.2	94.6	1.4	-0.1	-4.7	3.4	
B4	neutral 8	23.1	9.4	79.5	84.8	0.1	0.3	-4.6	3.2	
C4	neutral 6.5	29.9	10.4	67.9	75.4	-0.2	1.5	-4.9	2.0	
D4	neutral 5	36.7	11.1	53.7	62.7	0.8	3.9	-2.8	3.0	
E4	neutral 3.5	43.3	10.5	39.9	48.7	0.6	4.1	-3.3	1.5	
F4	black	45.5	9.6	24.4	32.1	0.8	4.5	-2.3	2.0	
A5	paper white	16.4	8.5	97.7	97.2	1.6	0.0	-6.2	2.0	
B5	Skin highlight L*=88	69.8	5.5	86.3	89.4	11.5	8.6	6.6	10.0	
C5	Skin highlight L* =75	93.9	6.0	74.3	80.0	18.5	16.8	13.1	13.8	
D5	Skin shadow L*=28	77.3	9.8	29.3	37.0	16.9	20.6	17.8	22.6	
E5	Skin shadow L*=13	76.1	8.8	18.7	24.6	18.0	22.3	17.6	22.4	
F5	Maximum Black	95.1	2.7	4.9	7.5	0.4	1.2	-2.1	-1.6	
<b>Summary Results</b>		I* Color	I* tone	ΔE	<b>100 Megalux hours</b>					
Average Score for all patches		71.6	79.7	8.8						
Worst 10% (3 lowest scoring patches)		19.4	69.2	11.2						



Canon Pixma Pro-100, Canon Chromalife 100+ (8-color ink set CLi-42), Canon Photo Paper Pro Platinum PT-101, no additional coating



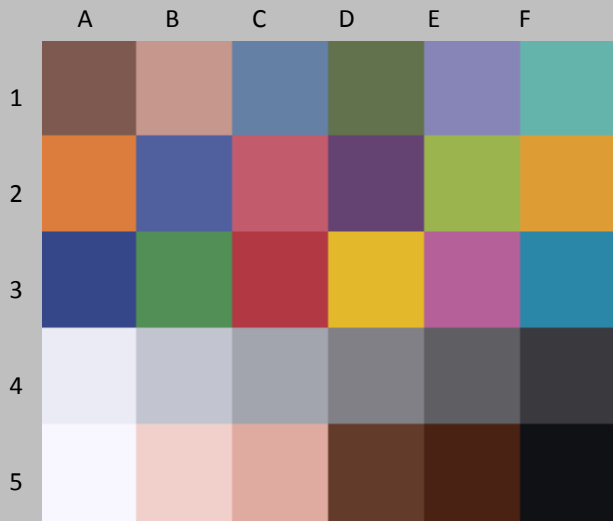
Original Print Colors before light exposure

Colors After light exposure

Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	72.7	12.8	41.7	53.3	13.9	17.5	12.1	16.3
B1	Light Skin	99.5	9.2	66.5	75.7	16.7	17.4	12.6	12.5
C1	Blue sky	76.4	9.7	52.4	59.9	-3.0	-0.7	-23.5	-17.8
D1	Foliage	83.7	11.2	45.8	56.2	-12.1	-7.9	19.5	19.7
E1	blue flower	75.0	10.4	57.1	64.5	8.8	9.9	-25.7	-18.5
F1	bluish green	79.5	8.3	68.4	74.0	-27.2	-21.2	-3.9	-2.5
A2	orange	78.4	15.4	62.2	69.5	34.1	31.9	50.1	36.7
B2	purplish blue	86.0	8.5	41.7	48.0	7.7	7.5	-37.1	-31.3
C2	moderate red	94.4	9.3	52.5	61.3	42.8	43.2	11.1	8.2
D2	purple	86.1	9.9	33.7	42.4	22.1	24.0	-21.9	-17.4
E2	yellow green	77.8	13.9	69.9	76.8	-19.9	-16.1	48.3	36.8
F2	orange yellow	79.0	15.5	69.8	77.0	18.6	16.6	60.6	47.0
A3	blue	89.3	7.5	31.4	37.1	9.2	8.2	-39.4	-34.7
B3	green	79.7	11.2	54.3	61.7	-30.3	-25.2	23.9	17.3
C3	red	94.0	9.0	43.3	51.4	49.8	51.8	23.0	19.7
D3	yellow	79.8	15.9	77.1	83.0	7.2	5.4	70.6	55.9
E3	magenta	92.2	9.3	52.5	61.0	41.2	40.6	-15.5	-11.6
F3	cyan	83.9	8.5	52.2	58.5	-18.8	-16.0	-26.0	-21.0
A4	white	39.8	6.5	93.2	95.0	1.4	0.2	-4.7	1.4
B4	neutral 8	40.5	8.9	79.5	85.9	0.1	0.8	-4.6	1.5
C4	neutral 6.5	43.6	10.8	67.9	76.9	-0.2	2.1	-4.9	0.5
D4	neutral 5	43.7	12.3	53.7	64.5	0.8	4.5	-2.8	1.8
E4	neutral 3.5	47.2	11.9	39.9	50.4	0.6	4.6	-3.3	0.5
F4	black	46.1	10.9	24.4	33.7	0.8	4.8	-2.3	1.6
A5	paper white	39.7	6.2	97.7	97.3	1.6	0.0	-6.2	-0.2
B5	Skin highlight L*=88	80.1	4.8	86.3	90.0	11.5	8.5	6.6	7.6
C5	Skin highlight L* =75	89.4	7.4	74.3	81.1	18.5	16.7	13.1	10.8
D5	Skin shadow L*=28	77.6	11.1	29.3	38.6	16.9	20.9	17.8	22.2
E5	Skin shadow L*=13	73.5	10.0	18.7	25.7	18.0	22.8	17.6	22.9
F5	Maximum Black	93.6	3.1	4.9	7.8	0.4	1.4	-2.1	-1.7
<b>Summary Results</b>		I* Color	I* tone	ΔE					
Average Score for all patches		74.1	76.3	10.0					
Worst 10% (3 lowest scoring patches)		40.0	64.8	15.6					

120 Megalux hours

The 140 Megalux hour Update will be posted on approximately DEC 20, 2017.



Original Print Colors before light exposure



Colors After light exposure

Patch #	Description	I* Color	$\Delta E$	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin			41.7		13.9		12.1	
B1	Light Skin			66.5		16.7		12.6	
C1	Blue sky			52.4		-3.0		-23.5	
D1	Foliage			45.8		-12.1		19.5	
E1	blue flower			57.1		8.8		-25.7	
F1	bluish green			68.4		-27.2		-3.9	
A1	orange			62.2		34.1		50.1	
B2	purplish blue			41.7		7.7		-37.1	
C2	moderate red			52.5		42.8		11.1	
D2	purple			33.7		22.1		-21.9	
E2	yellow green			69.9		-19.9		48.3	
F2	orange yellow			69.8		18.6		60.6	
A3	blue			31.4		9.2		-39.4	
B3	green			54.3		-30.3		23.9	
C3	red			43.3		49.8		23.0	
D3	yellow			77.1		7.2		70.6	
E3	magenta			52.5		41.2		-15.5	
F3	cyan			52.2		-18.8		-26.0	
A4	white			93.2		1.4		-4.7	
B4	neutral 8			79.5		0.1		-4.6	
C4	neutral 6.5			67.9		-0.2		-4.9	
D4	neutral 5			53.7		0.8		-2.8	
E4	neutral 3.5			39.9		0.6		-3.3	
F4	black			24.4		0.8		-2.3	
A5	paper white			97.7		1.6		-6.2	
B5	Skin highlight L*=88			86.3		11.5		6.6	
C5	Skin highlight L* =75			74.3		18.5		13.1	
D5	Skin shadow L*=28			29.3		16.9		17.8	
E5	Skin shadow L*=13			18.7		18.0		17.6	
F5	Maximum Black			4.9		0.4		-2.1	
<b>Summary Results</b>		I* Color	I* tone	$\Delta E$	<b>140 Megalux hours</b>				
Average Score for all patches									
Worst 10% (3 lowest scoring patches)									