

Aardenburg

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IMAGING & ARCHIVES

Tested System:

ID#:247

Printer: Epson Stylus Pro 3800

Inks/Colorants: Inkjetfly IMA24/36 V3

Media: PremierArt™ Premium Photo Luster HW(300gsm)

Coating(s): no additional coating

Sample #: AaI_20100905_SN009

Testing Status: 100 Megalux hours total light exposure

Testing Is ongoing, next update on approximately JAN 05, 2015

Conservation Display Rating (CDR)

Lower limit: 53 Megalux hours (for weakest 10% of the color patches)

Upper limit: 59 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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Aardenburg Imaging and Archives
Rev:8/13/14



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, ΔE . Note that ΔE values lose perceptual scaling significance when they become large (e.g., > 15). Also, the ΔE 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”												
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	11.4	114	228	342	457	571	685	799	913	1027	1142
50 Lux 12 hours per day	“Museum Standard” display condition	4.6	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).	1.9	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.	1.0	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.	0.5	5	10	15	20	25	30	35	41	46	51

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 the light exposure test 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 print display 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 humidity cycling can cause physical cracks and/or flaking, etc. Handling damage such as scratching, abrasion, tears and creases, and catastrophic damage by smoke, fire, flood, etc., also degrade print quality over time. Thus, as illumination levels are reduced other forms of degradation take on greater proportion of risk and may appear in shorter time intervals.

(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. For light fading claims regarding its newer 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 dose (at 75°F/60%RH assumed temperature and humidity levels) used in conjunction with WIR’s visually weighted densitometric endpoint criteria set V3.0 became a de facto industry standard during the first decade of the 21st century in the absence of a published International Standards Organization (ISO) test standard. However, the WIR V3.0 visual criteria set used to predict “easily noticeable fade” was designed for traditional 20th century silver–halide color photofinishing processes. It is not well suited to the evaluation of modern digital media. Nevertheless, the WIR assumed daily light exposure dose is one of many commonly encountered light exposure conditions existing within the range of real world picture display locations.

Sample Description

Sample # AaI_20100905_SN009 **Batch #:** L1
Printer: Epson Stylus Pro 3800
Ink: Inkjetfly IMA24/36 V3
Media: PremierArt™ Premium Photo Luster HW(300gsm)
Coating(s): no additional coating

Test Print Prepared by: AaI&A member
Printed: September 5, 2010
Initial Print colors measured February 5, 2012
Test Started: February 6, 2012

Test Image: AaI_StandardColorSet(v2)forSRGB.tif
RIP?Driver settings: Qimage, Superfine, High speed "off", no color adjust (NCA)

Media Setting Premium Luster Photo Paper

Profile: yes
Profile type: custom

Rendering relative w/BPC

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

Optical Brighteners Present? <i>yes (high)</i>	L*		a*		b*	
Media Whitepoint Color	UV inc	UV exc	UV inc	UV exc	UV inc	UV exc
	95.2	95.0	1.2	-0.9	-8.7	-0.9
	<i>UV-inc/UV-exc ΔL^*, Δa^*, Δb^* respectively</i>					
	0.2		2.1		7.8	
	<i>Calculated differences, especially for Δb^*, indicate the role and magnitude of fluorescence on original paper color</i>					
Maximum Printed Black	L*	a*	b*	Optical Density (Dmax)		
	8.4	1.0	-1.9	2.03		

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: 10429 Lux
Average Temperature: 23.8°C over full test duration, 25.3°C during light exposure.
Average Relative humidity: 55.7%RH over full test duration, 55.7%RH during light exposure.

Replicates/Compare to:

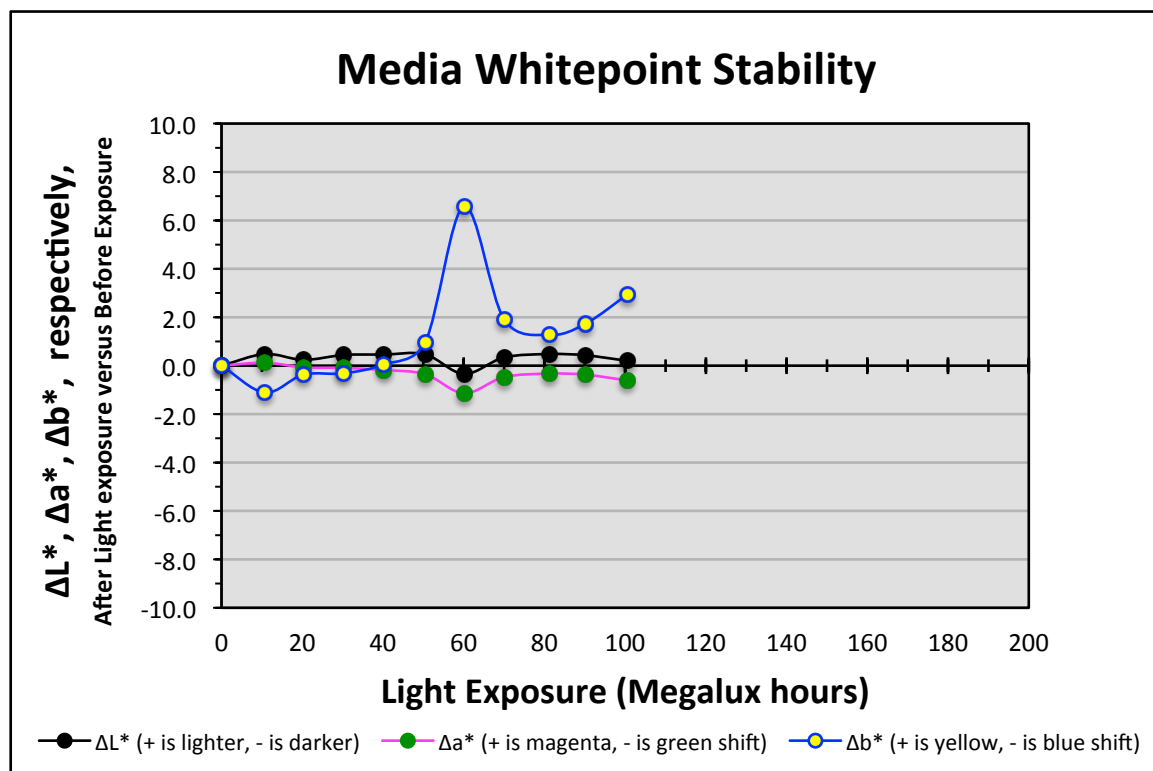
Compare to sample # AaI_20100905_SN011 which was printed on the same printer unit and same batch of PremierArt™ Premium Photo Luster HW(300gsm) paper but using the Epson OEM Ultrachrome K3 inkset. These two samples have also been tested side-by-side in the light fade testing unit (i.e., batch L1) to eliminate the testing equipment as a potential source of variability in the comparative results.

Notes/Comments:

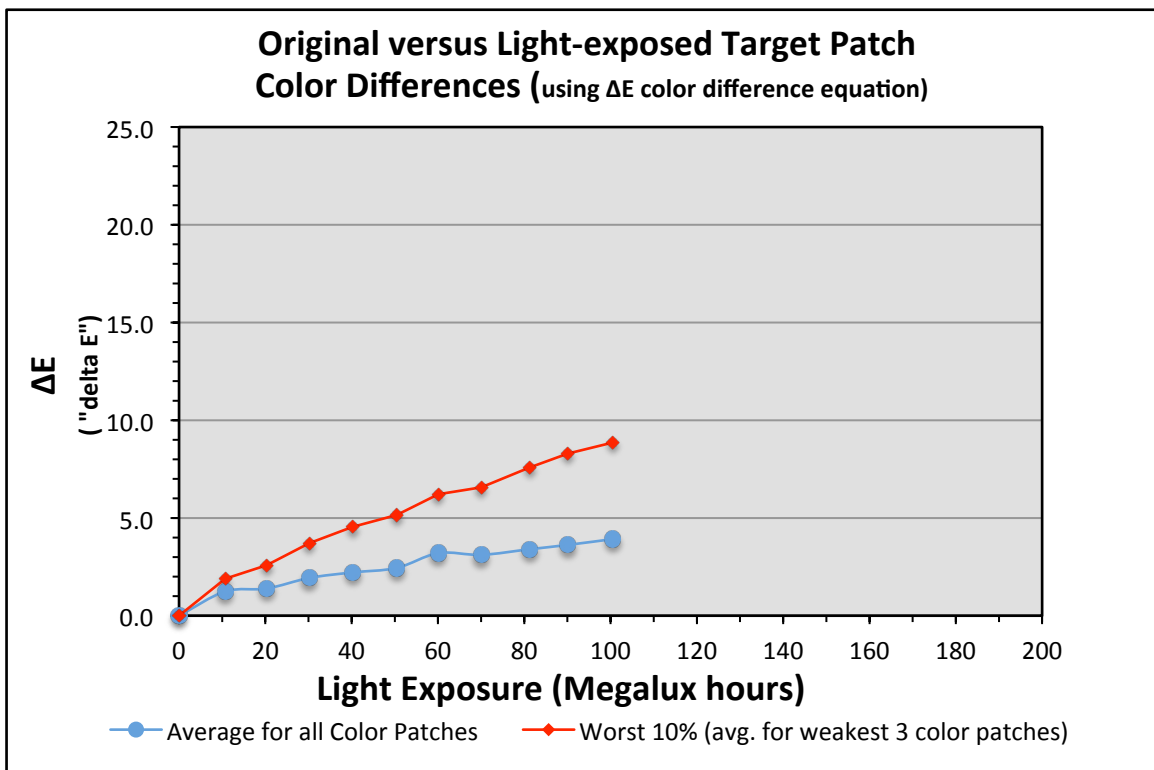
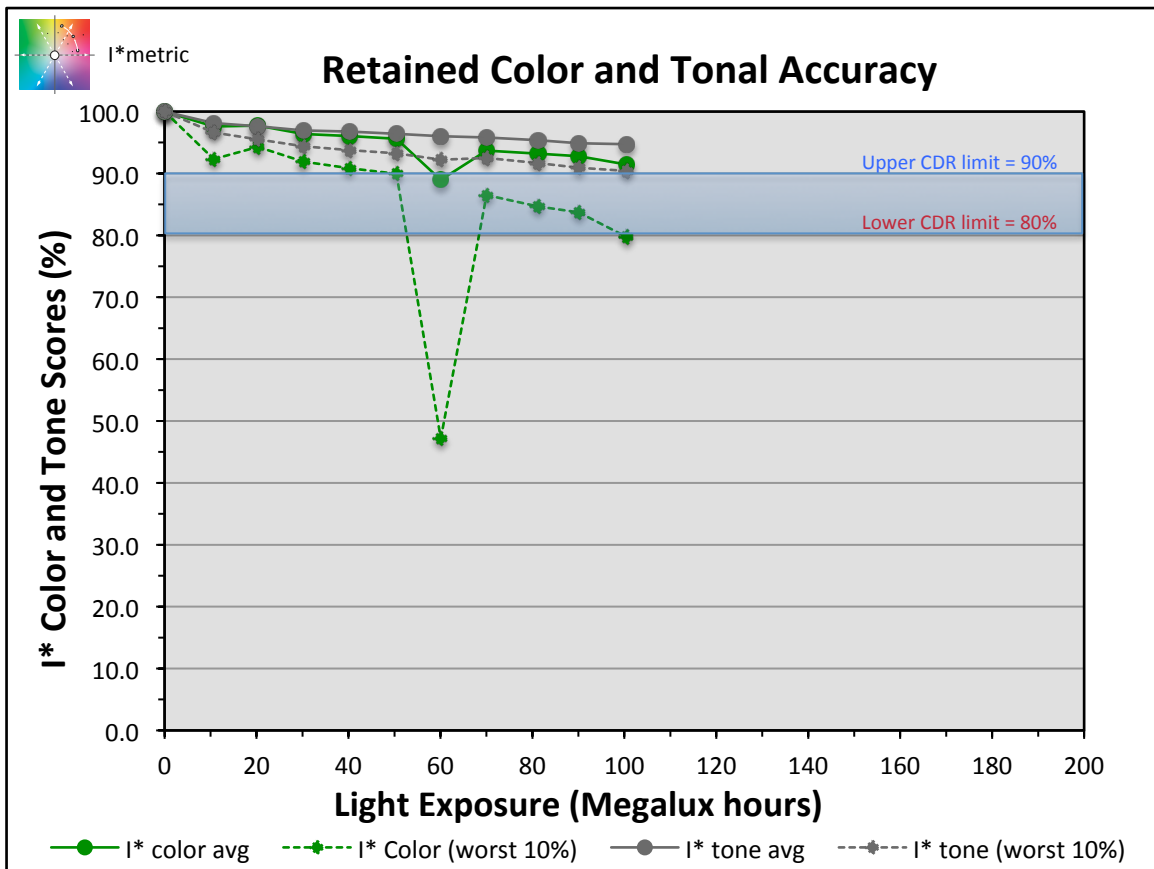
MHMG 2014-02-04: The dips in the graphs at 60 Mluxhrs and recovery at 70 Mluxhrs were not measurement errors. The 60 Mluxhr measurements were delayed a few weeks after removing the sample from the light fade unit. The temporary "dark storage" period caused a phenomenon I call "light-induced low intensity staining (LILIS)". Additional media yellowing occurs which can be partially or fully reversed with more light exposure of sufficient intensity (as evidenced by the 70 Mluxhr exposure results), but the stain will return again with further storage in low intensity or dark storage environments. The LILIS behavior appears to be related to optical brighteners in the media, but more research is needed. This RC paper is particularly unusual in that it does not exhibit the early "burnout" and consequent "yellowing" during the fade testing which is typical of media with high OBA content. However, the LILIS effect is very pronounced, so there's no free lunch!

Graphs:

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating

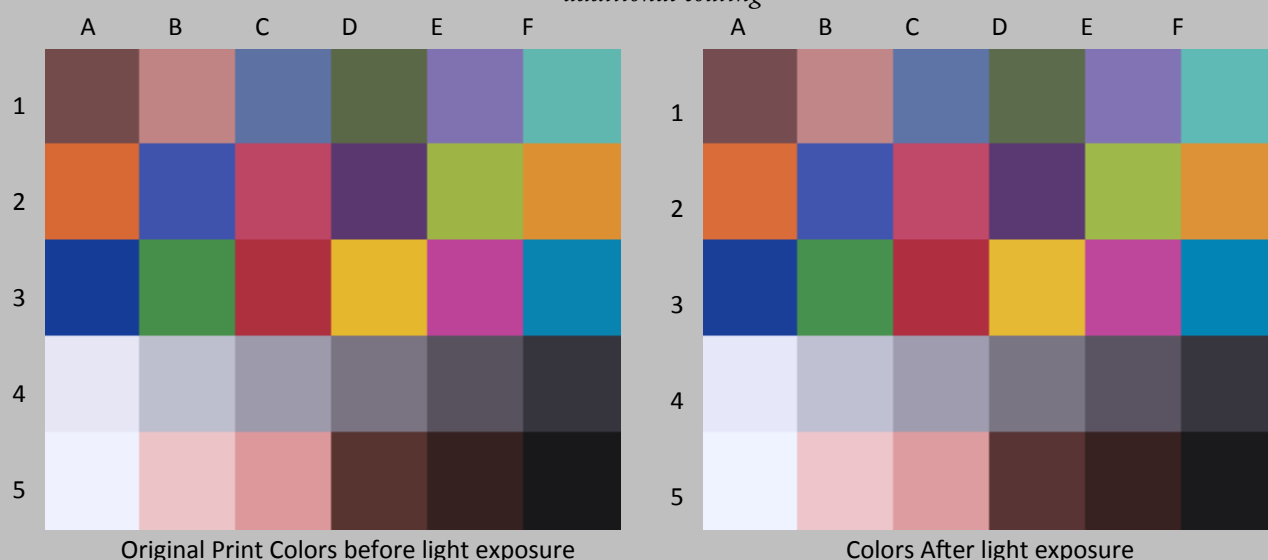


Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



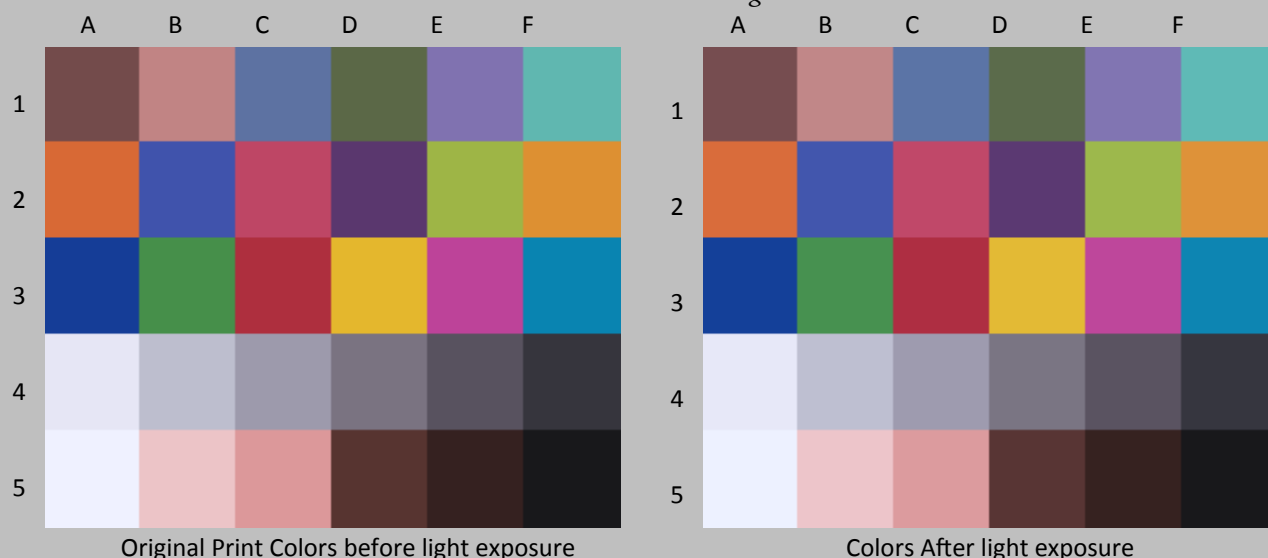
Values:

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



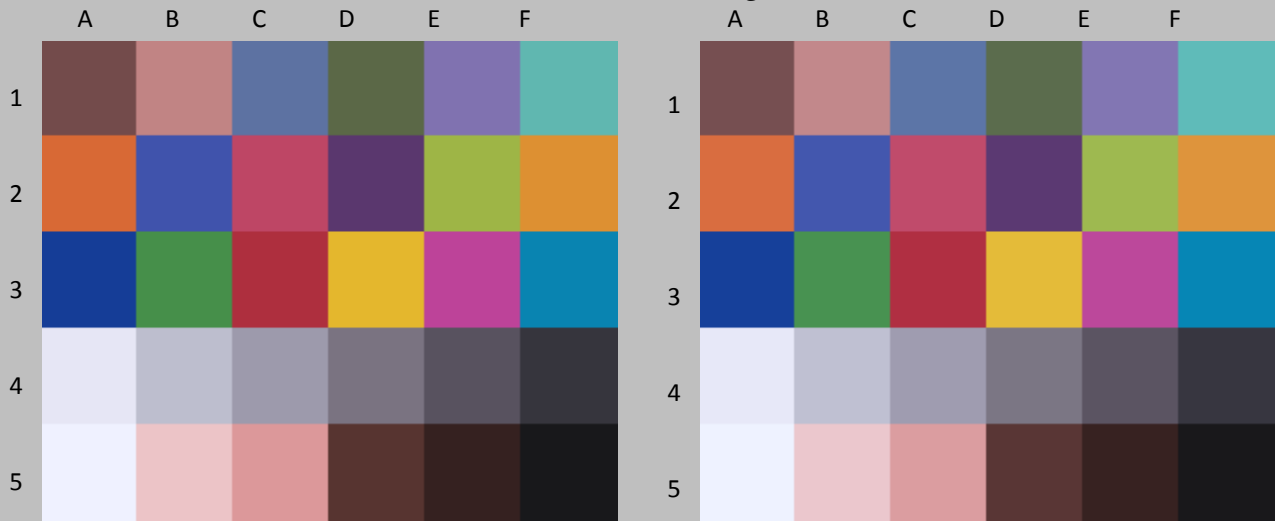
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	98.0	1.2	36.6	37.4	17.8	17.6	7.0	6.2
B1	Light Skin	96.2	1.7	61.6	62.4	23.8	23.2	10.3	9.0
C1	Blue sky	99.3	1.1	47.7	48.6	2.0	1.6	-29.2	-29.8
D1	Foliage	97.1	1.3	42.5	43.2	-10.4	-10.7	17.1	16.1
E1	blue flower	99.3	1.1	51.3	52.2	16.3	15.8	-31.3	-31.9
F1	bluish green	95.4	2.0	69.0	69.7	-29.4	-29.1	-4.9	-6.8
A1	orange	98.3	1.8	57.8	58.5	42.4	41.4	48.8	47.5
B2	purplish blue	99.9	0.9	37.8	38.5	15.3	14.8	-50.6	-50.9
C2	moderate red	98.6	1.3	48.0	48.5	50.8	50.5	9.5	8.3
D2	purple	99.2	0.9	29.6	30.0	24.0	24.1	-26.3	-27.1
E2	yellow green	98.1	1.7	70.3	71.0	-20.0	-20.6	52.4	50.9
F2	orange yellow	98.3	1.8	66.7	67.5	25.1	24.0	59.1	58.0
A3	blue	100.0	0.7	28.0	28.5	14.9	14.6	-54.0	-54.3
B3	green	98.2	1.5	53.4	54.1	-35.0	-35.4	29.3	28.1
C3	red	99.3	0.9	40.8	41.0	52.4	52.6	22.7	21.8
D3	yellow	98.6	1.6	76.9	77.6	7.8	6.7	70.0	69.0
E3	magenta	99.7	0.9	48.7	49.3	55.5	55.0	-20.8	-21.2
F3	cyan	99.0	1.1	50.8	51.5	-17.9	-18.0	-32.9	-33.7
A4	white	90.7	1.5	91.6	92.2	1.8	1.9	-7.4	-8.8
B4	neutral 8	92.7	1.4	77.3	77.9	2.0	1.8	-8.2	-9.4
C4	neutral 6.5	94.8	1.2	64.2	65.0	4.2	3.9	-9.0	-10.0
D4	neutral 5	96.5	1.2	49.3	50.1	4.6	4.4	-6.5	-7.3
E4	neutral 3.5	97.8	1.1	35.6	36.4	5.0	4.7	-6.6	-7.2
F4	black	99.7	0.8	22.3	22.9	2.2	2.1	-4.9	-5.4
A5	paper white	93.5	1.2	95.2	95.7	1.6	1.7	-9.1	-10.2
B5	Skin highlight L*=88	94.2	1.6	82.6	83.3	15.4	14.8	3.9	2.6
C5	Skin highlight L* =75	95.7	1.9	70.0	70.8	25.6	24.9	10.3	8.8
D5	Skin shadow L*=28	100.0	0.8	26.0	26.6	16.2	16.1	8.7	8.2
E5	Skin shadow L*=13	100.0	0.5	15.5	15.9	9.6	9.8	4.9	4.7
F5	Maximum Black	100.0	0.5	8.4	8.8	1.0	0.8	-1.9	-2.0
Summary Results		I* Color	I* tone	ΔE	10 Megalux hours				
Average Score for all patches		97.6	98.1	1.2					
Worst 10% (3 lowest scoring patches)		92.3	96.6	1.9					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	97.2	1.5	36.6	37.6	17.8	17.5	7.0	6.0
B1	Light Skin	94.9	2.1	61.6	62.5	23.8	23.0	10.3	8.7
C1	Blue sky	99.5	1.2	47.7	48.7	2.0	1.4	-29.2	-29.5
D1	Foliage	95.6	1.6	42.5	43.3	-10.4	-10.7	17.1	15.8
E1	blue flower	98.8	1.3	51.3	52.3	16.3	15.4	-31.3	-31.3
F1	bluish green	93.7	2.5	69.0	69.8	-29.4	-29.0	-4.9	-7.2
A1	orange	97.0	2.6	57.8	58.6	42.4	41.2	48.8	46.6
B2	purplish blue	98.8	1.4	37.8	38.6	15.3	14.2	-50.6	-50.2
C2	moderate red	98.0	1.6	48.0	48.6	50.8	50.5	9.5	8.0
D2	purple	100.0	0.7	29.6	30.2	24.0	23.8	-26.3	-26.6
E2	yellow green	96.5	2.6	70.3	71.0	-20.0	-20.6	52.4	50.0
F2	orange yellow	97.1	2.5	66.7	67.6	25.1	23.8	59.1	57.1
A3	blue	99.4	1.0	28.0	28.5	14.9	14.1	-54.0	-53.8
B3	green	96.7	2.1	53.4	54.1	-35.0	-35.4	29.3	27.4
C3	red	98.7	1.3	40.8	40.9	52.4	52.6	22.7	21.4
D3	yellow	97.4	2.4	76.9	77.7	7.8	6.5	70.0	68.1
E3	magenta	99.3	1.1	48.7	49.3	55.5	54.6	-20.8	-20.5
F3	cyan	99.6	1.0	50.8	51.5	-17.9	-18.2	-32.9	-33.4
A4	white	97.8	0.8	91.6	92.0	1.8	1.7	-7.4	-8.1
B4	neutral 8	97.4	0.9	77.3	77.8	2.0	1.7	-8.2	-8.9
C4	neutral 6.5	97.4	1.0	64.2	64.9	4.2	3.9	-9.0	-9.7
D4	neutral 5	96.7	1.2	49.3	50.1	4.6	4.2	-6.5	-7.2
E4	neutral 3.5	97.3	1.1	35.6	36.4	5.0	4.7	-6.6	-7.3
F4	black	98.5	0.9	22.3	22.9	2.2	2.0	-4.9	-5.5
A5	paper white	100.0	0.4	95.2	95.4	1.6	1.5	-9.1	-9.4
B5	Skin highlight L*=88	94.4	1.5	82.6	83.2	15.4	14.6	3.9	2.8
C5	Skin highlight L* =75	94.7	2.1	70.0	70.8	25.6	24.7	10.3	8.6
D5	Skin shadow L*=28	99.5	0.8	26.0	26.6	16.2	16.2	8.7	8.1
E5	Skin shadow L*=13	100.0	0.4	15.5	15.7	9.6	9.9	4.9	4.7
F5	Maximum Black	100.0	0.1	8.4	8.4	1.0	1.0	-1.9	-2.0
Summary Results		I* Color	I* tone	ΔE	20 Megalux hours				
Average Score for all patches		97.7	97.6	1.4					
Worst 10% (3 lowest scoring patches)		94.3	95.5	2.6					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating

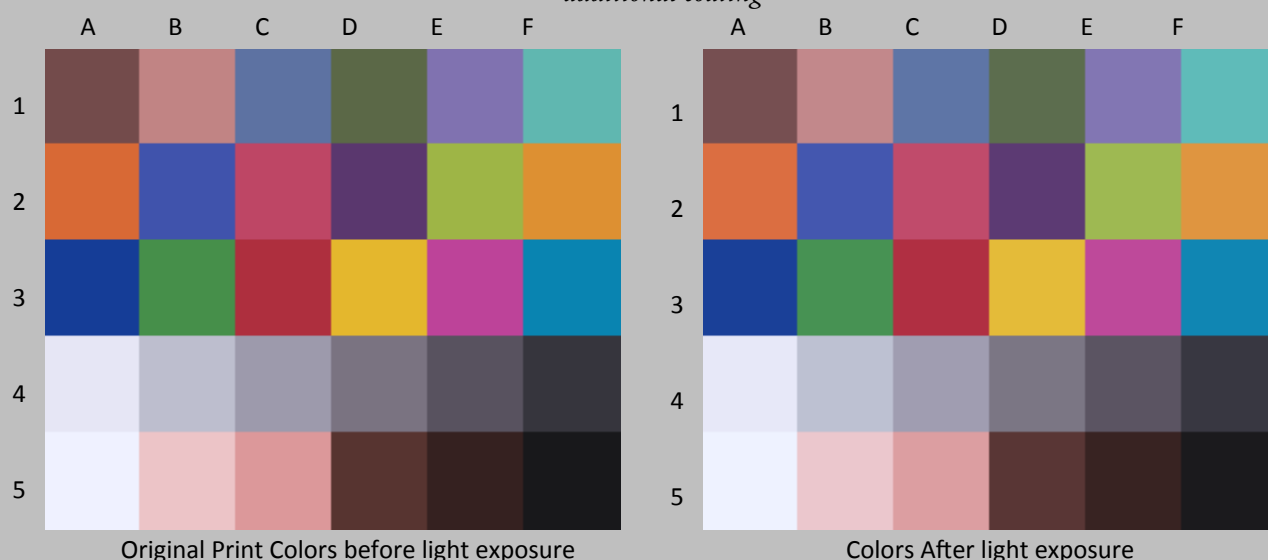


Original Print Colors before light exposure

Colors After light exposure

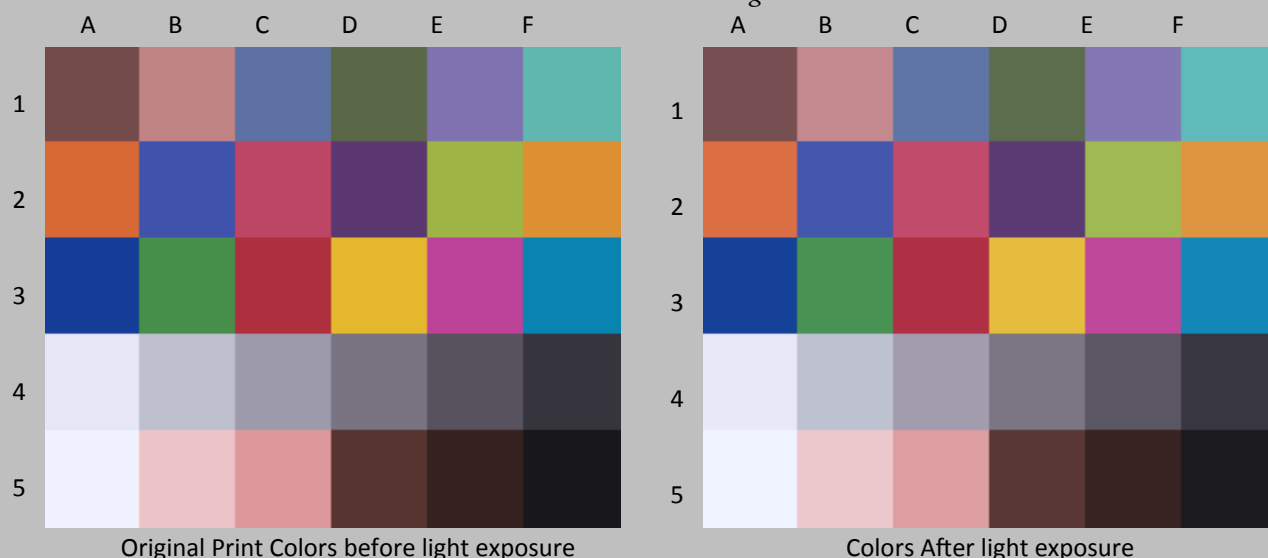
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	95.1	1.9	36.6	37.9	17.8	17.4	7.0	5.6
B1	Light Skin	91.8	2.9	61.6	62.8	23.8	22.8	10.3	7.9
C1	Blue sky	98.7	1.6	47.7	49.0	2.0	1.2	-29.2	-29.6
D1	Foliage	92.9	2.2	42.5	43.7	-10.4	-10.8	17.1	15.2
E1	blue flower	98.1	1.7	51.3	52.6	16.3	15.2	-31.3	-31.4
F1	bluish green	92.1	3.1	69.0	70.1	-29.4	-28.9	-4.9	-7.7
A1	orange	95.1	3.8	57.8	58.9	42.4	40.9	48.8	45.4
B2	purplish blue	98.1	1.9	37.8	38.9	15.3	13.9	-50.6	-50.1
C2	moderate red	96.9	2.3	48.0	48.8	50.8	50.4	9.5	7.4
D2	purple	99.4	1.1	29.6	30.4	24.0	23.9	-26.3	-27.0
E2	yellow green	94.9	3.5	70.3	71.4	-20.0	-20.8	52.4	49.1
F2	orange yellow	95.3	3.8	66.7	67.9	25.1	23.2	59.1	56.1
A3	blue	98.8	1.4	28.0	28.9	14.9	13.8	-54.0	-53.7
B3	green	95.3	2.9	53.4	54.5	-35.0	-35.5	29.3	26.8
C3	red	97.7	1.9	40.8	41.1	52.4	52.6	22.7	20.9
D3	yellow	96.2	3.4	76.9	78.0	7.8	6.0	70.0	67.4
E3	magenta	99.0	1.4	48.7	49.5	55.5	54.5	-20.8	-20.7
F3	cyan	99.3	1.3	50.8	51.9	-17.9	-18.2	-32.9	-33.5
A4	white	96.3	1.1	91.6	92.3	1.8	1.8	-7.4	-8.3
B4	neutral 8	95.3	1.2	77.3	78.0	2.0	1.5	-8.2	-9.0
C4	neutral 6.5	96.0	1.4	64.2	65.2	4.2	3.8	-9.0	-9.8
D4	neutral 5	94.1	1.6	49.3	50.4	4.6	4.1	-6.5	-7.5
E4	neutral 3.5	95.8	1.6	35.6	36.9	5.0	4.5	-6.6	-7.4
F4	black	97.2	1.3	22.3	23.3	2.2	2.1	-4.9	-5.7
A5	paper white	100.0	0.6	95.2	95.6	1.6	1.5	-9.1	-9.4
B5	Skin highlight L*=88	91.9	2.0	82.6	83.5	15.4	14.5	3.9	2.3
C5	Skin highlight L* =75	92.4	2.9	70.0	71.2	25.6	24.4	10.3	8.0
D5	Skin shadow L*=28	97.8	1.4	26.0	27.0	16.2	16.0	8.7	7.8
E5	Skin shadow L*=13	100.0	0.7	15.5	16.1	9.6	9.8	4.9	4.6
F5	Maximum Black	100.0	0.5	8.4	8.8	1.0	1.0	-1.9	-2.2
Summary Results		I* Color	I* tone	ΔE	30 Megalux hours				
Average Score for all patches		96.4	97.0	1.9					
Worst 10% (3 lowest scoring patches)		91.9	94.4	3.7					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



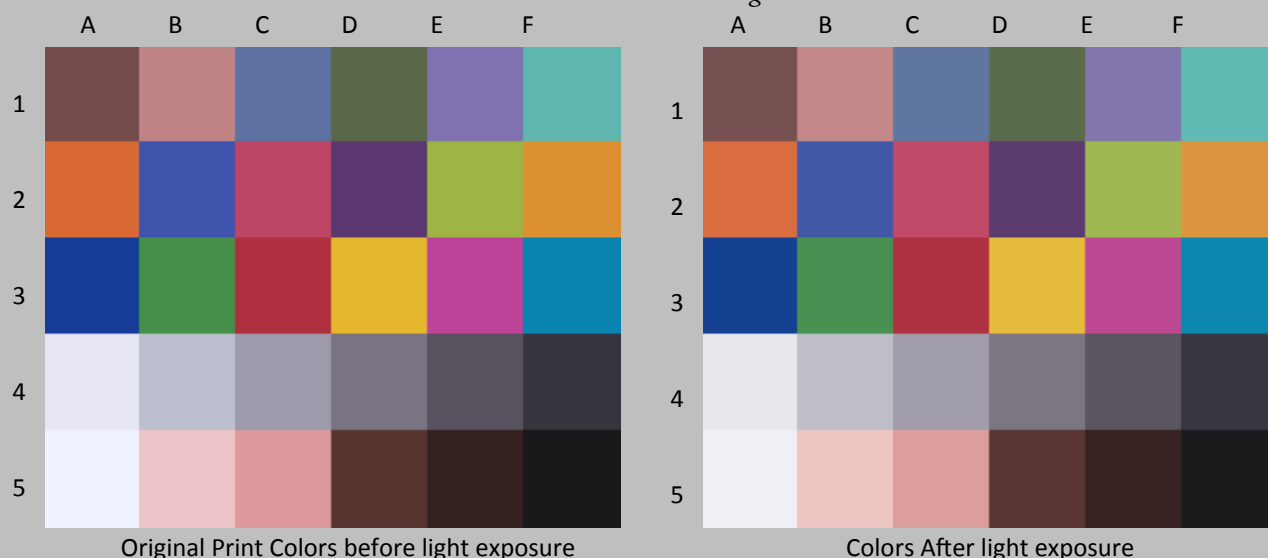
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	94.7	2.1	36.6	38.0	17.8	17.4	7.0	5.6
B1	Light Skin	90.6	3.2	61.6	62.9	23.8	22.7	10.3	7.6
C1	Blue sky	98.6	1.7	47.7	49.1	2.0	1.1	-29.2	-29.4
D1	Foliage	91.6	2.5	42.5	43.7	-10.4	-10.7	17.1	15.0
E1	blue flower	97.4	2.0	51.3	52.7	16.3	14.9	-31.3	-31.1
F1	bluish green	90.6	3.5	69.0	70.2	-29.4	-28.6	-4.9	-8.1
A1	orange	93.9	4.6	57.8	59.0	42.4	40.7	48.8	44.7
B2	purplish blue	97.3	2.3	37.8	39.1	15.3	13.6	-50.6	-49.7
C2	moderate red	96.6	2.4	48.0	48.9	50.8	50.4	9.5	7.3
D2	purple	99.8	1.2	29.6	30.6	24.0	23.7	-26.3	-26.8
E2	yellow green	93.4	4.4	70.3	71.5	-20.0	-20.8	52.4	48.3
F2	orange yellow	93.9	4.6	66.7	68.1	25.1	23.0	59.1	55.2
A3	blue	98.3	1.8	28.0	29.0	14.9	13.6	-54.0	-53.4
B3	green	93.8	3.5	53.4	54.6	-35.0	-35.4	29.3	26.0
C3	red	97.2	2.2	40.8	41.2	52.4	52.6	22.7	20.6
D3	yellow	95.2	4.1	76.9	78.2	7.8	5.8	70.0	66.6
E3	magenta	98.5	1.7	48.7	49.6	55.5	54.2	-20.8	-20.3
F3	cyan	99.7	1.2	50.8	51.9	-17.9	-18.3	-32.9	-33.3
A4	white	99.7	0.8	91.6	92.2	1.8	1.8	-7.4	-7.9
B4	neutral 8	96.9	1.1	77.3	78.1	2.0	1.5	-8.2	-8.8
C4	neutral 6.5	97.1	1.4	64.2	65.3	4.2	3.8	-9.0	-9.7
D4	neutral 5	94.3	1.7	49.3	50.6	4.6	4.1	-6.5	-7.4
E4	neutral 3.5	95.3	1.7	35.6	37.0	5.0	4.5	-6.6	-7.4
F4	black	97.1	1.4	22.3	23.5	2.2	2.1	-4.9	-5.7
A5	paper white	100.0	0.5	95.2	95.6	1.6	1.4	-9.1	-9.0
B5	Skin highlight L*=88	91.4	2.1	82.6	83.6	15.4	14.3	3.9	2.4
C5	Skin highlight L* =75	91.9	3.0	70.0	71.3	25.6	24.3	10.3	7.9
D5	Skin shadow L*=28	96.8	1.6	26.0	27.2	16.2	16.0	8.7	7.6
E5	Skin shadow L*=13	100.0	1.0	15.5	16.4	9.6	9.7	4.9	4.5
F5	Maximum Black	100.0	1.1	8.4	9.4	1.0	0.8	-1.9	-1.9
Summary Results		I* Color	I* tone	ΔE	40 Megalux hours				
Average Score for all patches		96.0	96.8	2.2					
Worst 10% (3 lowest scoring patches)		90.9	93.8	4.5					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



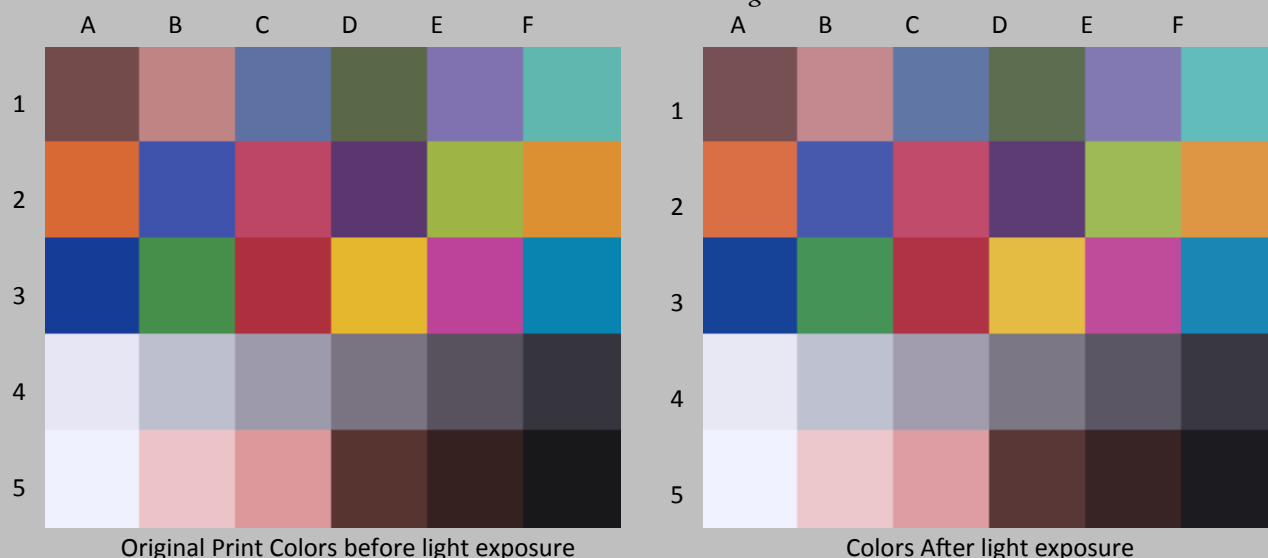
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	94.0	2.2	36.6	38.1	17.8	17.3	7.0	5.4
B1	Light Skin	90.1	3.4	61.6	63.0	23.8	22.8	10.3	7.4
C1	Blue sky	98.0	1.8	47.7	49.2	2.0	0.9	-29.2	-29.0
D1	Foliage	89.5	2.9	42.5	43.8	-10.4	-10.7	17.1	14.5
E1	blue flower	96.5	2.2	51.3	52.8	16.3	14.8	-31.3	-30.6
F1	bluish green	90.2	3.6	69.0	70.3	-29.4	-28.6	-4.9	-8.2
A1	orange	93.0	5.2	57.8	59.1	42.4	40.7	48.8	44.1
B2	purplish blue	96.1	2.9	37.8	39.1	15.3	13.2	-50.6	-49.0
C2	moderate red	96.3	2.6	48.0	49.0	50.8	50.3	9.5	7.1
D2	purple	100.0	1.1	29.6	30.6	24.0	23.6	-26.3	-26.6
E2	yellow green	92.4	5.0	70.3	71.7	-20.0	-20.8	52.4	47.7
F2	orange yellow	93.0	5.3	66.7	68.3	25.1	22.9	59.1	54.6
A3	blue	97.2	2.3	28.0	29.1	14.9	13.2	-54.0	-52.9
B3	green	92.6	4.1	53.4	54.8	-35.0	-35.4	29.3	25.5
C3	red	96.9	2.3	40.8	41.3	52.4	52.6	22.7	20.4
D3	yellow	94.5	4.6	76.9	78.4	7.8	5.8	70.0	66.1
E3	magenta	97.8	2.1	48.7	49.7	55.5	54.0	-20.8	-19.8
F3	cyan	99.8	1.3	50.8	52.0	-17.9	-18.5	-32.9	-33.0
A4	white	100.0	0.7	91.6	92.3	1.8	1.6	-7.4	-7.2
B4	neutral 8	98.3	1.1	77.3	78.1	2.0	1.3	-8.2	-8.2
C4	neutral 6.5	100.0	1.3	64.2	65.4	4.2	3.7	-9.0	-9.3
D4	neutral 5	94.7	1.7	49.3	50.7	4.6	4.0	-6.5	-7.3
E4	neutral 3.5	95.6	1.8	35.6	37.2	5.0	4.5	-6.6	-7.4
F4	black	96.8	1.6	22.3	23.6	2.2	2.1	-4.9	-5.7
A5	paper white	94.5	1.1	95.2	95.7	1.6	1.2	-9.1	-8.1
B5	Skin highlight L*=88	92.9	1.9	82.6	83.6	15.4	14.3	3.9	2.6
C5	Skin highlight L* =75	91.4	3.2	70.0	71.4	25.6	24.3	10.3	7.7
D5	Skin shadow L*=28	96.0	1.8	26.0	27.3	16.2	16.0	8.7	7.5
E5	Skin shadow L*=13	100.0	1.1	15.5	16.5	9.6	9.7	4.9	4.4
F5	Maximum Black	100.0	1.0	8.4	9.3	1.0	1.0	-1.9	-2.2
Summary Results		I* Color	I* tone	ΔE	50 Megalux hours				
Average Score for all patches		95.6	96.4	2.4					
Worst 10% (3 lowest scoring patches)		89.9	93.3	5.2					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



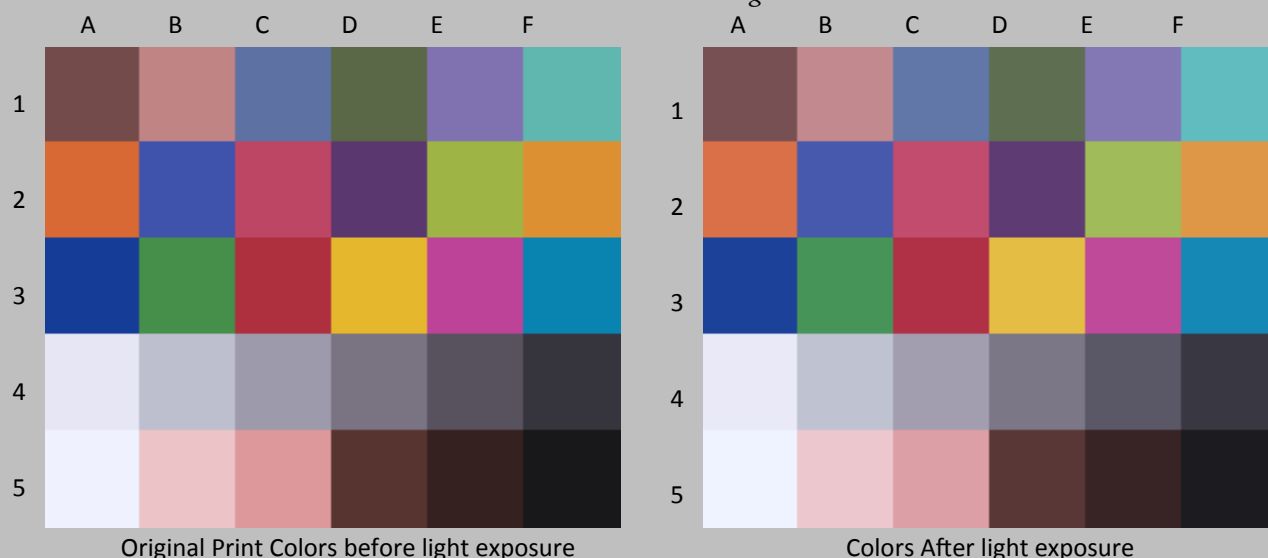
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	97.8	1.7	36.6	38.0	17.8	17.2	7.0	6.3
B1	Light Skin	96.2	1.9	61.6	62.7	23.8	22.5	10.3	9.6
C1	Blue sky	89.3	3.9	47.7	49.0	2.0	0.1	-29.2	-26.1
D1	Foliage	93.1	2.2	42.5	43.6	-10.4	-10.6	17.1	15.2
E1	blue flower	87.2	5.2	51.3	52.5	16.3	13.5	-31.3	-27.2
F1	bluish green	98.1	1.3	69.0	69.8	-29.4	-28.9	-4.9	-5.8
A1	orange	93.7	4.8	57.8	59.0	42.4	40.8	48.8	44.5
B2	purplish blue	89.3	6.3	37.8	38.9	15.3	11.4	-50.6	-45.8
C2	moderate red	98.9	1.3	48.0	48.8	50.8	50.0	9.5	8.8
D2	purple	95.8	2.2	29.6	30.4	24.0	23.1	-26.3	-24.5
E2	yellow green	92.9	4.6	70.3	71.4	-20.0	-20.2	52.4	47.9
F2	orange yellow	93.6	4.8	66.7	68.0	25.1	23.2	59.1	54.9
A3	blue	91.9	5.1	28.0	28.7	14.9	11.4	-54.0	-50.4
B3	green	93.5	3.6	53.4	54.5	-35.0	-34.9	29.3	25.9
C3	red	98.3	1.5	40.8	41.1	52.4	52.5	22.7	21.2
D3	yellow	94.8	4.3	76.9	78.1	7.8	6.2	70.0	66.2
E3	magenta	92.3	5.2	48.7	49.6	55.5	53.1	-20.8	-16.3
F3	cyan	92.6	3.4	50.8	51.7	-17.9	-19.6	-32.9	-30.1
A4	white	45.4	5.7	91.6	91.6	1.8	0.9	-7.4	-1.8
B4	neutral 8	61.1	4.2	77.3	77.4	2.0	0.8	-8.2	-4.2
C4	neutral 6.5	74.1	3.2	64.2	65.1	4.2	3.3	-9.0	-6.1
D4	neutral 5	88.4	2.0	49.3	50.4	4.6	3.5	-6.5	-5.4
E4	neutral 3.5	96.6	1.6	35.6	37.0	5.0	4.2	-6.6	-6.2
F4	black	100.0	1.2	22.3	23.4	2.2	1.9	-4.9	-5.2
A5	paper white	35.0	6.7	95.2	94.8	1.6	0.4	-9.1	-2.5
B5	Skin highlight L*=88	83.4	3.2	82.6	83.1	15.4	13.8	3.9	6.6
C5	Skin highlight L* =75	96.3	1.9	70.0	71.0	25.6	24.1	10.3	10.3
D5	Skin shadow L*=28	99.1	1.3	26.0	27.1	16.2	16.0	8.7	8.0
E5	Skin shadow L*=13	100.0	1.0	15.5	16.4	9.6	9.7	4.9	4.5
F5	Maximum Black	100.0	1.1	8.4	9.5	1.0	1.0	-1.9	-1.9
Summary Results		I* Color	I* tone	ΔE	60 Megalux hours				
Average Score for all patches		89.0	96.0	3.2					
Worst 10% (3 lowest scoring patches)		47.1	92.2	6.2					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



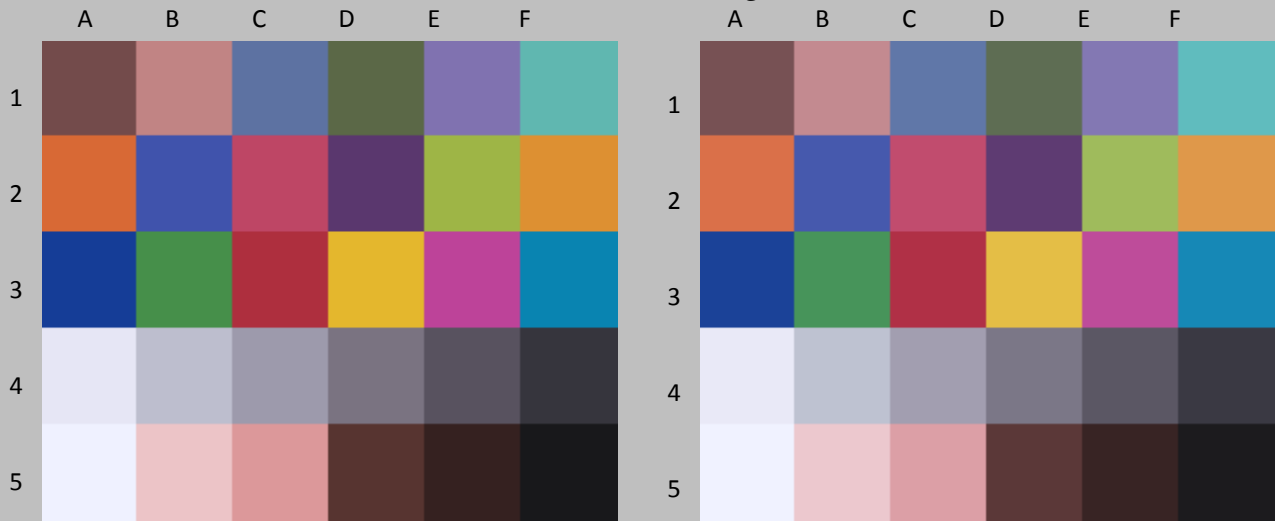
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	92.8	2.5	36.6	38.3	17.8	17.3	7.0	5.2
B1	Light Skin	88.8	3.7	61.6	63.1	23.8	22.6	10.3	7.1
C1	Blue sky	96.5	2.3	47.7	49.4	2.0	0.7	-29.2	-28.4
D1	Foliage	87.5	3.3	42.5	44.0	-10.4	-10.6	17.1	14.1
E1	blue flower	94.0	3.1	51.3	53.0	16.3	14.3	-31.3	-29.7
F1	bluish green	87.4	4.5	69.0	70.5	-29.4	-28.2	-4.9	-9.0
A1	orange	91.0	6.5	57.8	59.3	42.4	40.5	48.8	42.8
B2	purplish blue	93.6	4.2	37.8	39.4	15.3	12.5	-50.6	-47.9
C2	moderate red	95.7	2.9	48.0	49.2	50.8	50.1	9.5	6.8
D2	purple	99.3	1.5	29.6	30.8	24.0	23.4	-26.3	-25.9
E2	yellow green	89.6	6.5	70.3	71.9	-20.0	-20.6	52.4	46.1
F2	orange yellow	90.7	6.7	66.7	68.4	25.1	22.7	59.1	53.1
A3	blue	95.1	3.5	28.0	29.3	14.9	12.4	-54.0	-51.9
B3	green	90.5	5.1	53.4	54.9	-35.0	-35.1	29.3	24.5
C3	red	95.8	3.0	40.8	41.4	52.4	52.5	22.7	19.8
D3	yellow	92.3	6.2	76.9	78.6	7.8	5.6	70.0	64.5
E3	magenta	95.8	3.3	48.7	50.0	55.5	53.4	-20.8	-18.7
F3	cyan	99.3	1.6	50.8	52.2	-17.9	-18.5	-32.9	-32.4
A4	white	94.6	1.2	91.6	92.2	1.8	1.6	-7.4	-6.4
B4	neutral 8	96.3	1.2	77.3	78.1	2.0	1.3	-8.2	-7.7
C4	neutral 6.5	99.2	1.5	64.2	65.6	4.2	3.7	-9.0	-8.6
D4	neutral 5	93.7	1.9	49.3	50.8	4.6	3.8	-6.5	-7.2
E4	neutral 3.5	95.7	2.1	35.6	37.5	5.0	4.4	-6.6	-7.3
F4	black	95.9	1.9	22.3	24.0	2.2	2.0	-4.9	-5.8
A5	paper white	84.6	2.0	95.2	95.5	1.6	1.1	-9.1	-7.1
B5	Skin highlight L*=88	92.2	2.1	82.6	83.7	15.4	14.2	3.9	2.6
C5	Skin highlight L* =75	89.8	3.7	70.0	71.5	25.6	24.2	10.3	7.3
D5	Skin shadow L*=28	94.6	2.2	26.0	27.6	16.2	15.8	8.7	7.3
E5	Skin shadow L*=13	98.8	1.6	15.5	17.0	9.6	9.5	4.9	4.3
F5	Maximum Black	100.0	1.8	8.4	10.1	1.0	0.9	-1.9	-2.0
Summary Results		I* Color	I* tone	ΔE	70 Megalux hours				
Average Score for all patches		93.7	95.8	3.1					
Worst 10% (3 lowest scoring patches)		86.5	92.5	6.6					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	91.2	2.9	36.6	38.5	17.8	17.4	7.0	4.9
B1	Light Skin	85.6	4.6	61.6	63.3	23.8	22.7	10.3	6.2
C1	Blue sky	97.7	2.2	47.7	49.6	2.0	0.9	-29.2	-28.9
D1	Foliage	84.7	3.9	42.5	44.2	-10.4	-10.6	17.1	13.6
E1	blue flower	95.3	2.9	51.3	53.2	16.3	14.5	-31.3	-30.2
F1	bluish green	83.7	5.6	69.0	70.7	-29.4	-27.8	-4.9	-10.0
A1	orange	89.8	7.3	57.8	59.6	42.4	40.4	48.8	42.0
B2	purplish blue	94.6	3.8	37.8	39.6	15.3	12.8	-50.6	-48.3
C2	moderate red	94.6	3.6	48.0	49.3	50.8	50.3	9.5	6.2
D2	purple	100.0	1.3	29.6	30.9	24.0	23.7	-26.3	-26.4
E2	yellow green	87.6	7.7	70.3	72.1	-20.0	-20.8	52.4	45.0
F2	orange yellow	89.2	7.7	66.7	68.7	25.1	22.5	59.1	52.2
A3	blue	96.1	3.0	28.0	29.3	14.9	12.8	-54.0	-52.4
B3	green	88.8	5.9	53.4	55.2	-35.0	-35.2	29.3	23.7
C3	red	95.2	3.3	40.8	41.5	52.4	52.7	22.7	19.5
D3	yellow	90.8	7.3	76.9	78.9	7.8	5.2	70.0	63.5
E3	magenta	96.5	3.0	48.7	50.1	55.5	53.6	-20.8	-19.0
F3	cyan	100.0	1.6	50.8	52.4	-17.9	-18.3	-32.9	-32.9
A4	white	100.0	0.8	91.6	92.4	1.8	1.8	-7.4	-7.3
B4	neutral 8	98.3	1.2	77.3	78.3	2.0	1.4	-8.2	-8.5
C4	neutral 6.5	100.0	1.6	64.2	65.8	4.2	3.8	-9.0	-9.1
D4	neutral 5	91.3	2.2	49.3	51.0	4.6	3.9	-6.5	-7.6
E4	neutral 3.5	93.9	2.2	35.6	37.5	5.0	4.5	-6.6	-7.6
F4	black	93.1	2.0	22.3	23.9	2.2	2.1	-4.9	-6.0
A5	paper white	91.5	1.4	95.2	95.7	1.6	1.2	-9.1	-7.8
B5	Skin highlight L*=88	86.8	2.9	82.6	83.9	15.4	14.3	3.9	1.5
C5	Skin highlight L* =75	87.1	4.5	70.0	71.8	25.6	24.3	10.3	6.5
D5	Skin shadow L*=28	93.9	2.3	26.0	27.6	16.2	16.1	8.7	7.1
E5	Skin shadow L*=13	98.5	1.6	15.5	17.0	9.6	9.7	4.9	4.2
F5	Maximum Black	100.0	1.8	8.4	10.1	1.0	0.9	-1.9	-2.0
Summary Results		I* Color	I* tone	ΔE	80 Megalux hours				
Average Score for all patches		93.2	95.4	3.4					
Worst 10% (3 lowest scoring patches)		84.7	91.7	7.6					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating

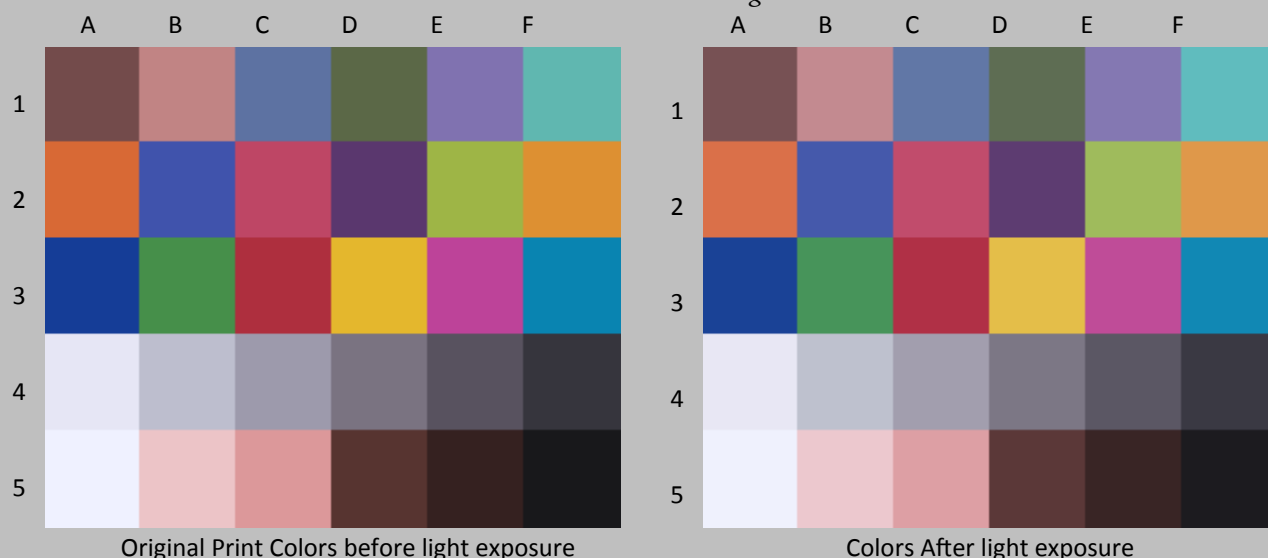


Original Print Colors before light exposure

Colors After light exposure

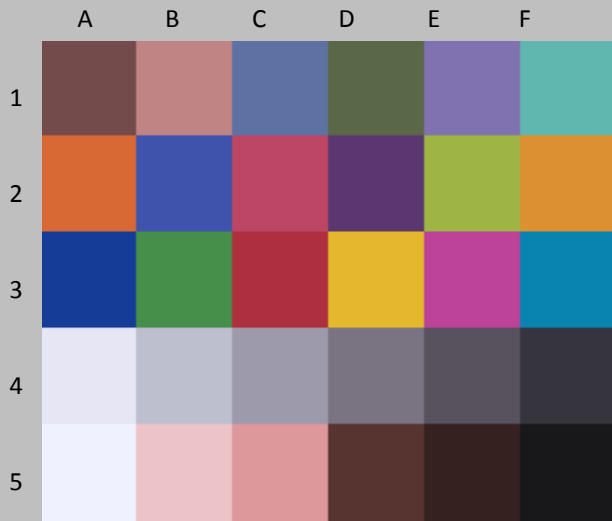
Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	91.1	3.0	36.6	38.6	17.8	17.4	7.0	4.8
B1	Light Skin	85.0	4.7	61.6	63.3	23.8	22.7	10.3	6.1
C1	Blue sky	97.2	2.4	47.7	49.7	2.0	0.8	-29.2	-28.6
D1	Foliage	83.4	4.2	42.5	44.2	-10.4	-10.5	17.1	13.3
E1	blue flower	94.5	3.1	51.3	53.3	16.3	14.4	-31.3	-29.8
F1	bluish green	82.8	5.9	69.0	70.8	-29.4	-27.7	-4.9	-10.3
A1	orange	88.9	7.9	57.8	59.7	42.4	40.4	48.8	41.4
B2	purplish blue	93.8	4.2	37.8	39.6	15.3	12.6	-50.6	-48.0
C2	moderate red	94.7	3.6	48.0	49.4	50.8	50.3	9.5	6.3
D2	purple	100.0	1.5	29.6	31.0	24.0	23.6	-26.3	-26.2
E2	yellow green	86.3	8.4	70.3	72.3	-20.0	-20.7	52.4	44.2
F2	orange yellow	88.0	8.5	66.7	68.9	25.1	22.4	59.1	51.4
A3	blue	95.5	3.3	28.0	29.4	14.9	12.6	-54.0	-52.1
B3	green	87.7	6.4	53.4	55.3	-35.0	-35.1	29.3	23.2
C3	red	95.0	3.4	40.8	41.6	52.4	52.7	22.7	19.4
D3	yellow	90.1	7.8	76.9	79.0	7.8	5.2	70.0	63.0
E3	magenta	95.9	3.3	48.7	50.2	55.5	53.5	-20.8	-18.7
F3	cyan	100.0	1.7	50.8	52.5	-17.9	-18.3	-32.9	-32.7
A4	white	100.0	0.9	91.6	92.4	1.8	1.8	-7.4	-7.0
B4	neutral 8	98.8	1.2	77.3	78.3	2.0	1.4	-8.2	-8.2
C4	neutral 6.5	100.0	1.7	64.2	65.9	4.2	3.9	-9.0	-8.9
D4	neutral 5	92.4	2.2	49.3	51.1	4.6	3.9	-6.5	-7.5
E4	neutral 3.5	95.1	2.3	35.6	37.7	5.0	4.5	-6.6	-7.4
F4	black	94.7	2.2	22.3	24.3	2.2	2.1	-4.9	-5.9
A5	paper white	86.7	1.8	95.2	95.6	1.6	1.2	-9.1	-7.3
B5	Skin highlight L*=88	87.1	2.9	82.6	83.9	15.4	14.3	3.9	1.6
C5	Skin highlight L* =75	87.0	4.5	70.0	72.0	25.6	24.3	10.3	6.5
D5	Skin shadow L*=28	93.6	2.4	26.0	27.7	16.2	16.1	8.7	7.0
E5	Skin shadow L*=13	98.2	1.5	15.5	16.9	9.6	9.8	4.9	4.2
F5	Maximum Black	100.0	1.6	8.4	9.9	1.0	1.0	-1.9	-2.1
Summary Results		I* Color	I* tone	ΔE	90 Megalux hours				
Average Score for all patches		92.8	94.9	3.6					
Worst 10% (3 lowest scoring patches)		83.7	90.9	8.3					

Epson Stylus Pro 3800, Inkjetfly IMA24/36 V3, PremierArt™ Premium Photo Luster HW(300gsm), no additional coating



Patch #	Description	I* Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	Dark Skin	91.7	3.0	36.6	38.7	17.8	17.3	7.0	5.0
B1	Light Skin	86.2	4.5	61.6	63.4	23.8	22.6	10.3	6.4
C1	Blue sky	94.9	2.8	47.7	49.7	2.0	0.6	-29.2	-27.8
D1	Foliage	82.4	4.4	42.5	44.2	-10.4	-10.4	17.1	13.1
E1	blue flower	92.1	3.8	51.3	53.2	16.3	14.1	-31.3	-28.9
F1	bluish green	83.1	5.8	69.0	70.7	-29.4	-27.6	-4.9	-10.1
A1	orange	88.1	8.4	57.8	59.7	42.4	40.3	48.8	40.9
B2	purplish blue	91.5	5.3	37.8	39.6	15.3	12.0	-50.6	-46.8
C2	moderate red	95.1	3.3	48.0	49.4	50.8	50.1	9.5	6.6
D2	purple	98.2	1.9	29.6	31.0	24.0	23.3	-26.3	-25.4
E2	yellow green	85.0	9.1	70.3	72.3	-20.0	-20.5	52.4	43.5
F2	orange yellow	87.2	9.0	66.7	68.8	25.1	22.4	59.1	50.8
A3	blue	93.5	4.4	28.0	29.4	14.9	11.9	-54.0	-51.1
B3	green	86.7	6.8	53.4	55.2	-35.0	-34.9	29.3	22.8
C3	red	94.9	3.5	40.8	41.6	52.4	52.6	22.7	19.3
D3	yellow	89.0	8.5	76.9	79.0	7.8	5.3	70.0	62.2
E3	magenta	94.2	4.2	48.7	50.2	55.5	53.2	-20.8	-17.6
F3	cyan	98.2	1.9	50.8	52.4	-17.9	-18.5	-32.9	-31.9
A4	white	89.7	1.6	91.6	92.2	1.8	1.6	-7.4	-5.9
B4	neutral 8	93.7	1.4	77.3	78.1	2.0	1.2	-8.2	-7.4
C4	neutral 6.5	95.1	1.9	64.2	65.9	4.2	3.7	-9.0	-8.1
D4	neutral 5	94.7	2.1	49.3	51.0	4.6	3.8	-6.5	-7.1
E4	neutral 3.5	97.7	2.2	35.6	37.7	5.0	4.4	-6.6	-7.1
F4	black	96.5	2.1	22.3	24.2	2.2	2.1	-4.9	-5.7
A5	paper white	73.7	3.0	95.2	95.4	1.6	0.9	-9.1	-6.1
B5	Skin highlight L*=88	89.9	2.4	82.6	83.8	15.4	14.2	3.9	2.2
C5	Skin highlight L* =75	87.9	4.3	70.0	71.9	25.6	24.2	10.3	6.8
D5	Skin shadow L*=28	93.9	2.4	26.0	27.7	16.2	15.9	8.7	7.1
E5	Skin shadow L*=13	98.9	1.7	15.5	17.1	9.6	9.8	4.9	4.3
F5	Maximum Black	100.0	2.0	8.4	10.3	1.0	1.1	-1.9	-1.9
Summary Results		I* Color	I* tone	ΔE	100 Megalux hours				
Average Score for all patches		91.5	94.7	3.9					
Worst 10% (3 lowest scoring patches)		79.7	90.4	8.9					

The 120 Megalux hour Update will be posted on approximately JAN 05, 2015.



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			36.6		17.8		7.0	
B1	Light Skin			61.6		23.8		10.3	
C1	Blue sky			47.7		2.0		-29.2	
D1	Foliage			42.5		-10.4		17.1	
E1	blue flower			51.3		16.3		-31.3	
F1	bluish green			69.0		-29.4		-4.9	
A1	orange			57.8		42.4		48.8	
B2	purplish blue			37.8		15.3		-50.6	
C2	moderate red			48.0		50.8		9.5	
D2	purple			29.6		24.0		-26.3	
E2	yellow green			70.3		-20.0		52.4	
F2	orange yellow			66.7		25.1		59.1	
A3	blue			28.0		14.9		-54.0	
B3	green			53.4		-35.0		29.3	
C3	red			40.8		52.4		22.7	
D3	yellow			76.9		7.8		70.0	
E3	magenta			48.7		55.5		-20.8	
F3	cyan			50.8		-17.9		-32.9	
A4	white			91.6		1.8		-7.4	
B4	neutral 8			77.3		2.0		-8.2	
C4	neutral 6.5			64.2		4.2		-9.0	
D4	neutral 5			49.3		4.6		-6.5	
E4	neutral 3.5			35.6		5.0		-6.6	
F4	black			22.3		2.2		-4.9	
A5	paper white			95.2		1.6		-9.1	
B5	Skin highlight L*=88			82.6		15.4		3.9	
C5	Skin highlight L* =75			70.0		25.6		10.3	
D5	Skin shadow L*=28			26.0		16.2		8.7	
E5	Skin shadow L*=13			15.5		9.6		4.9	
F5	Maximum Black			8.4		1.0		-1.9	
Summary Results		I* Color	I* tone	ΔE	120 Megalux hours				
Average Score for all patches									
Worst 10% (3 lowest scoring patches)									