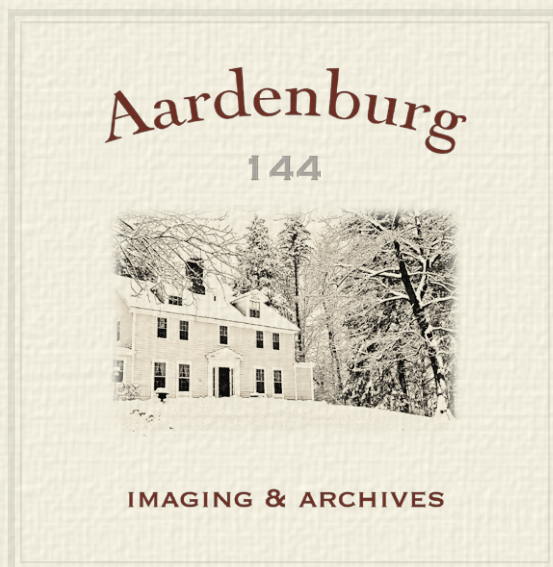




Accelerated Light Fading Test Results

*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

Sample # AaI_20080222_SN002

100 Megalux-hours completed

Conservation Display Rating *	
Lower Exposure Limit (Megalux hours)	Upper Exposure limit (Megalux hours)
2	2

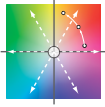
* Please read document **AaI_2009_0118_TA-01.pdf**, “An Overview of the AaI&A Conservation Display Ratings”, located on the Documents page of the AaI&A website for an explanation of the conservation display ratings.

Document #: AaI_20080222_SN002(Lf).pdf Rev: November 19, 2009

Test Print Prepared by: AaI&A Member, Category: Amateur

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About this Report

This report contains light fastness information about a single 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 2). 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 the Test Results



AaI_StandardColorSet(v2)forSRGB.tif

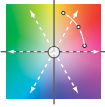
The magnitude and visual appearance of fading depends not only on the chosen printing system but the chosen image as well. In other words, different images are comprised of different colors, and the fading relationships between those colors dictate how the image will look as it fades. The sample print 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 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 presentation of the target images simulates looking at the light-exposed print along side a perfect duplicate of the unexposed original print. The “Before/After” Layer mode takes advantage of Adobe Reader Layer technology. Toggle the “Before/After” layer on and off using the layers feature of Adobe Reader to directly switch between the light exposed print colors and the initial print colors for the image located on the right side of each page. 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. It was a major reason behind the development of the I* metric.



Sample Description

Printer: Epson Stylus Photo R265

Ink: Signal

Paper: Epson Ultra Premium Photo Paper Luster

Sample #: AaI_20080222_SN002

Test Print Prepared by: AaI&A member

Membership category: amateur



AaI_StandardColorSet(v2)forSRGB.tif

Test Image: AaI_StandardColorSet(v2)forSRGB.tif

RIP/Driver settings: Epson driver, Photo RPM, ICM off

Media Setting: "Premium Semigloss"

Printed: January 29, 2008

Original print colors measured on: May 9, 2008

Test started on: May 10, 2008

Profile: R1400_Signal_EpULPrPHLus.icm

Rendering Intent: Absolute Colorimetric**

Profile type: custom

Profile Creation Software: Gretag/Macbeth Profilemaker 5.0.8

Paper White Color (UV–included versus UV–excluded) and Maximum Printed Black						
Optical Brighteners present? yes***	L*		a*		b*	
	UV inc	UV exc	UV inc	UV exc	UV inc	UV exc
Maximum Paper White (no colorants printed)	94.5	94.5	-0.1	-0.6	-4.2	-2.4
(1) ΔL*, Δa*, Δb* respectively	0.0		0.5		1.8	
(1) Calculated differences, especially for Δb*, indicate the role and magnitude of fluorescence on original paper color						
Maximum Printed black (UV included)	L* = 3.6		a* = 0.5		b* = -2.6	

Light Source: Phillips Colortone F40T12/C50

Filter/Glazing: Sample framed under Glass*

Light Exposure Cycle: 8 hours on, 4 hours off, twice per 24 hours

Average Illuminance during "on" cycle: 12,270 Lux

Average Temperature: 23.1°C over full test duration, 24.3°C during light exposure

Average Relative humidity: 59.0%RH full test period, 59.8%RH during light exposure

CIELAB measurements: D50 2° observer, Xrite Gretag/Macbeth Spectrolino/Spectroscan

Replicates/Compare to:

No Replicates are available at this time.

Notes/Comments:

* The Phillips Colortone F40T12/C50 fluorescent light source and ordinary glass picture frame glazing yields UVA content and overall spectral power similar to natural 5000°K daylight entering a window and then striking a print that has been framed by **standard acrylic glazing** rather than ordinary glass. Other light sources and/or different glazing options may yield greater or lesser fade rates (generally, a 2-5x increase in fade rate for direct sunlight compared to UV-excluded sources at the same Lux level). The spectral quality of the light can also affect individual colors differently.

** The use of Absolute colorimetric rendering caused some yellow ink density to be printed in the “paper white” value (column/row A5) of the printed target image in order to more closely match the neutral image white value of the image file. For actual paper white values refer to the paper white color table above.

*** OBAs are in the paper base, but not in the image receiving layer.

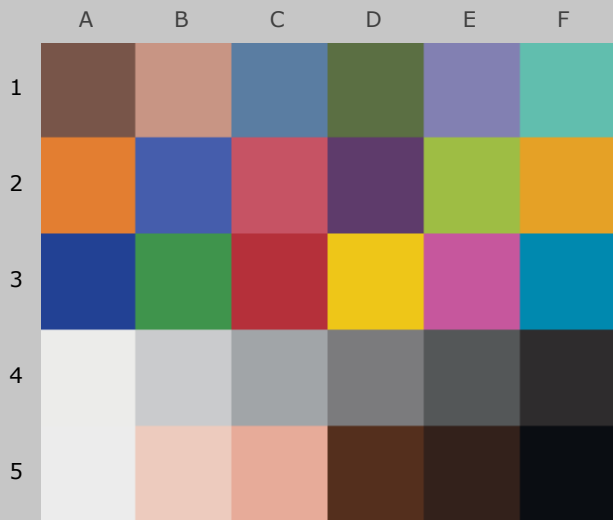
The Epson Stylus Photo R265 is known as the Epson Stylus Photo R260 in the U.S.A.

July 9, 2008 – 10 Megalux-hours:

This Signal ink set is a third party ink sold in the United Kingdom as a replacement for the Epson OEM Claria ink, primarily from an online Ebay store called Signal inkjet. Compare this sample to AaI_20080222_SN001 which is a test of the same batch of paper printed by the same AaI&A member, but using the Epson OEM Claria inkset installed in an Epson 1400 printer.

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	11.42	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 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 has cited this exposure condition and 90% confidence limit as a rationale for estimating print fading times of traditional color photo materials in typical home display environments. For recent light fading claims regarding its line of pigment-based inkjet printers, Kodak has 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) has standardized its light fastness ratings on 450 lux for 12 hours per day in order to estimate the years on display necessary to reach “noticeable” fading. This average light exposure condition, an assumed 75°F/60%RH temperature and humidity level, and WIR’s visually weighted densitometric endpoint criteria set V3.0 has become a de facto industry standard for most predictive light fading estimates in the absence of a published International Standards Organization (ISO) test standard.												

100_{color}/100_{tone}



Original Print Colors
(measured before light exposure)



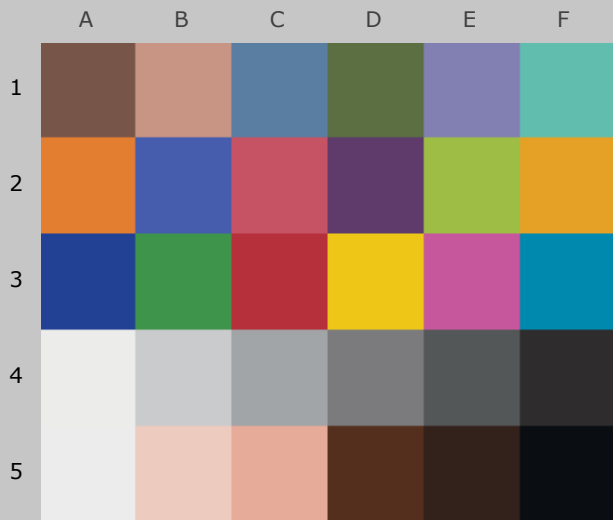
Colors at **Zero Megalux-hours** of Light Exposure
(same as original print colors)

*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

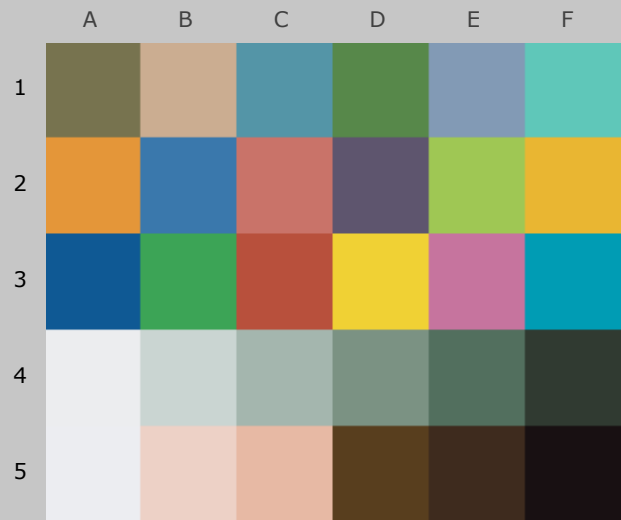
Original Print Colors as Measured and at Start of Test

Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	100	0.0	39.7		14.3		13.4	
B1	light Skin	100	0.0	66.3		18.5		17.4	
C1	blue sky	100	0.0	51.1		-5.1		-23.7	
D1	foliage	100	0.0	44.3		-14.1		21.6	
E1	blue flower	100	0.0	55.5		9.3		-26.0	
F1	bluish green	100	0.0	71.1		-32.4		-1.1	
A2	orange	100	0.0	63.5		36.3		57.2	
B2	purplish blue	100	0.0	40.6		9.8		-46.5	
C2	moderate red	100	0.0	51.5		48.1		15.5	
D2	purple	100	0.0	30.4		23.0		-21.7	
E2	yellow green	100	0.0	72.5		-24.1		55.2	
F2	orange yellow	100	0.0	71.9		19.3		68.1	
A3	blue	100	0.0	29.3		13.2		-50.1	
B3	green	100	0.0	55.0		-38.6		29.5	
C3	red	100	0.0	42.2		54.4		28.5	
D3	yellow	100	0.0	81.7		4.2		78.9	
E3	magenta	100	0.0	53.2		51.3		-16.3	
F3	cyan	100	0.0	52.6		-21.8		-29.2	
A4	white	100	0.0	93.5		0.1		0.9	
B4	neutral 8	100	0.0	81.4		-0.3		-0.7	
C4	neutral 6.5	100	0.0	67.4		-0.5		-1.8	
D4	neutral 5	100	0.0	51.6		0.1		-1.1	
E4	neutral 3.5	100	0.0	36.9		-0.8		-1.3	
F4	black	100	0.0	18.4		1.0		0.2	
A5	paper white	100	0.0	93.4		0.0		-0.4	
B5	skin highlight L*=89	100	0.0	84.2		11.3		11.0	
C5	skin highlight L*=75	100	0.0	75.2		20.7		18.2	
D5	skin shadow L*=25	100	0.0	23.9		15.9		19.4	
E5	skin shadow L*=11	100	0.0	15.0		8.4		7.6	
F5	Max Black	100	0.0	3.6		0.5		-2.6	
Summary Results		I*Color	I*tone	ΔE	 AARDENBURG IMAGING & ARCHIVES				
Average Score for all patches		100	100	0.0					
Average Score for the Worst 10% (3 lowest scoring patches)		100	100	0.0					

58.4_{color} / 83.1_{tone}



Original Print Colors
(measured before light exposure)



Colors after 10 Megalux-hours
light exposure

*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

10 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	8.7	20.3	39.7	48.3	14.3	-2.5	13.4	21.0
B1	light Skin	58.2	12.9	66.3	72.8	18.5	7.6	17.4	19.5
C1	blue sky	41.5	16.3	51.1	58.1	-5.1	-17.6	-23.7	-16.1
D1	foliage	48.5	15.8	44.3	52.0	-14.1	-26.6	21.6	27.6
E1	blue flower	44.5	17.3	55.5	62.4	9.3	-3.8	-26.0	-17.1
F1	bluish green	95.0	3.4	71.1	73.8	-32.4	-33.7	-1.1	-2.7
A2	orange	84.3	12.5	63.5	69.1	36.3	25.4	57.2	59.3
B2	purplish blue	54.0	23.6	40.6	48.2	9.8	-8.4	-46.5	-33.6
C2	moderate red	71.1	16.5	51.5	58.1	48.1	34.1	15.5	21.3
D2	purple	46.2	18.9	30.4	37.5	23.0	8.0	-21.7	-12.6
E2	yellow green	94.4	5.0	72.5	75.7	-24.1	-26.9	55.2	52.5
F2	orange yellow	87.7	10.6	71.9	77.2	19.3	10.2	68.1	69.4
A3	blue	62.0	21.3	29.3	36.0	13.2	-3.8	-50.1	-39.2
B3	green	88.4	8.0	55.0	60.1	-38.6	-44.4	29.5	31.2
C3	red	79.2	14.4	42.2	47.9	54.4	41.9	28.5	32.9
D3	yellow	93.6	6.2	81.7	84.5	4.2	-0.1	78.9	75.4
E3	magenta	70.6	17.4	53.2	59.4	51.3	37.3	-16.3	-7.8
F3	cyan	70.4	12.7	52.6	58.3	-21.8	-31.3	-29.2	-23.0
A4	white	89.1	1.6	93.5	93.7	0.1	0.3	0.9	-0.6
B4	neutral 8	69.3	4.4	81.4	84.1	-0.3	-3.6	-0.7	-0.2
C4	neutral 6.5	15.2	10.1	67.4	72.7	-0.5	-8.3	-1.8	1.9
D4	neutral 5	-31.3	14.7	51.6	58.6	0.1	-11.5	-1.1	4.8
E4	neutral 3.5	-60.1	17.4	36.9	44.4	-0.8	-14.5	-1.3	6.4
F4	black	19.7	9.3	18.4	23.0	1.0	-6.1	0.2	4.1
A5	paper white	92.5	1.2	93.4	93.6	0.0	0.3	-0.4	-1.6
B5	skin highlight L*=89	83.9	3.5	84.2	85.9	11.3	9.3	11.0	8.7
C5	skin highlight L*=75	80.7	6.9	75.2	78.8	20.7	15.0	18.2	17.5
D5	skin shadow L*=25	69.4	9.5	23.9	28.7	15.9	9.2	19.4	24.2
E5	skin shadow L*=11	63.0	6.5	15.0	19.5	8.4	7.7	7.6	12.3
F5	Max Black	62.8	4.5	3.6	5.6	0.5	3.8	-2.6	-0.2

Summary Results

I*Color

I*tone

ΔE

Average Score for all patches

58.4

83.1

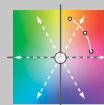
11.4

Average Score for the Worst 10%
(3 lowest scoring patches)

-27.6

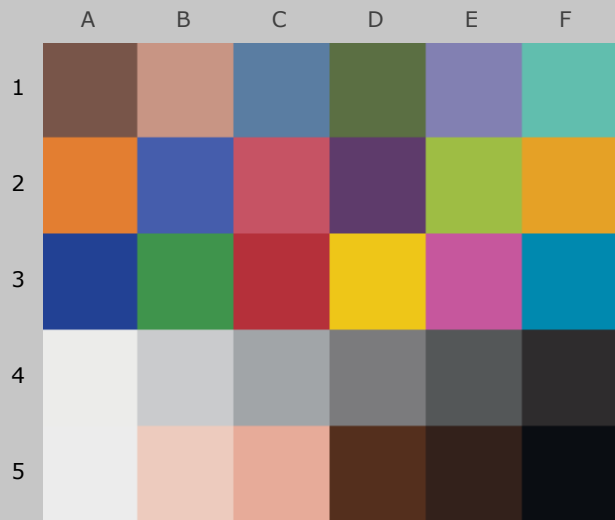
73.8

21.7

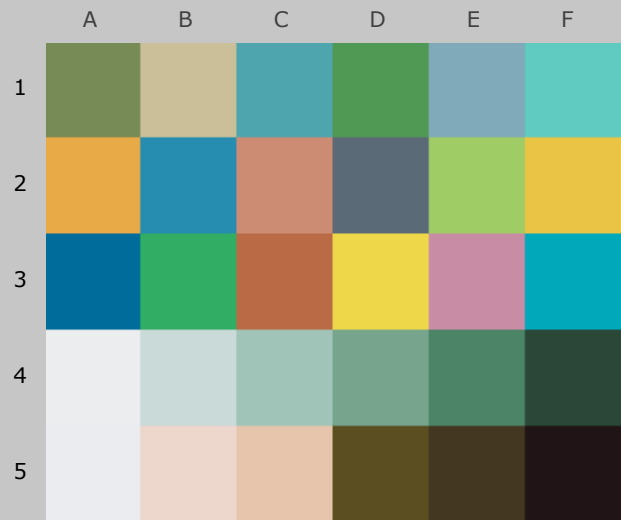


AARDENBURG IMAGING
& ARCHIVES

26.6_{color} / 71.2_{tone}



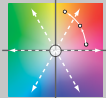
Original Print Colors
(measured before light exposure)



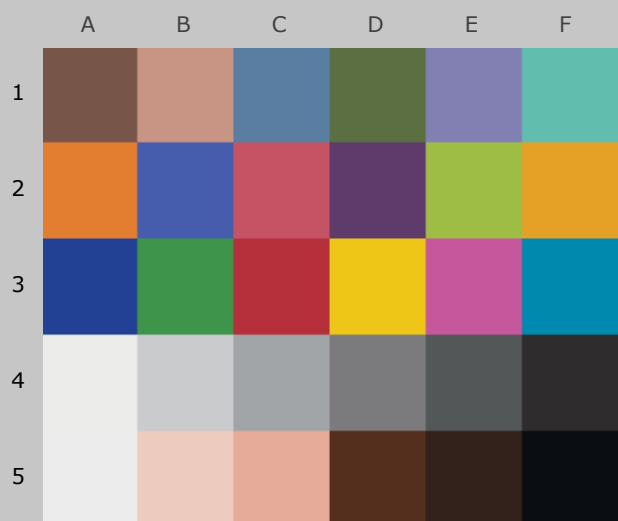
Colors after 20 Megalux-hours
light exposure

*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

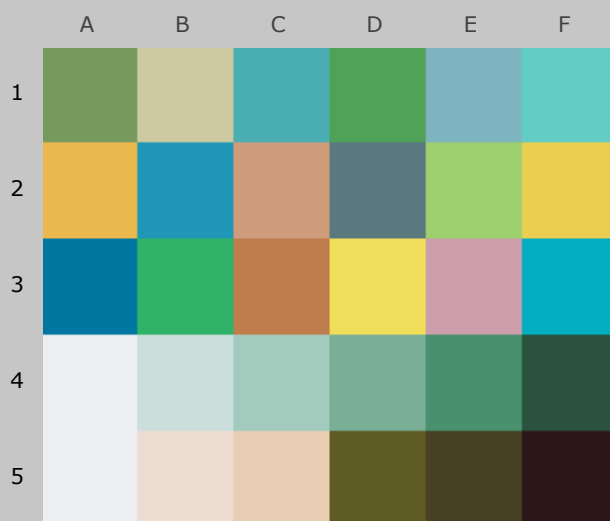
20 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-58.3	35.2	39.7	55.5	14.3	-14.8	13.4	25.7
B1	light Skin	28.8	21.7	66.3	77.6	18.5	0.2	17.4	20.5
C1	blue sky	7.1	25.9	51.1	62.9	-5.1	-25.3	-23.7	-12.7
D1	foliage	16.8	25.5	44.3	57.2	-14.1	-34.7	21.6	29.4
E1	blue flower	11.3	27.6	55.5	67.2	9.3	-12.1	-26.0	-13.1
F1	bluish green	87.7	6.0	71.1	75.1	-32.4	-34.2	-1.1	-5.2
A2	orange	71.5	22.5	63.5	74.1	36.3	16.5	57.2	58.4
B2	purplish blue	27.2	37.6	40.6	54.0	9.8	-19.7	-46.5	-27.5
C2	moderate red	49.6	28.9	51.5	64.2	48.1	23.2	15.5	22.8
D2	purple	7.8	32.6	30.4	43.9	23.0	-3.7	-21.7	-8.9
E2	yellow green	83.4	11.6	72.5	77.5	-24.1	-28.4	55.2	45.7
F2	orange yellow	78.4	18.3	71.9	81.1	19.3	3.6	68.1	65.9
A3	blue	37.4	35.3	29.3	41.8	13.2	-15.4	-50.1	-33.8
B3	green	81.5	12.4	55.0	63.1	-38.6	-48.0	29.5	28.3
C3	red	60.0	27.7	42.2	53.9	54.4	30.3	28.5	35.3
D3	yellow	85.2	13.1	81.7	86.3	4.2	-3.0	78.9	69.0
E3	magenta	47.5	31.2	53.2	65.3	51.3	26.0	-16.3	-2.6
F3	cyan	55.0	19.3	52.6	61.8	-21.8	-36.7	-29.2	-21.1
A4	white	84.3	2.0	93.5	93.7	0.1	0.3	0.9	-1.1
B4	neutral 8	45.4	7.2	81.4	85.8	-0.3	-6.0	-0.7	-0.6
C4	neutral 6.5	-38.1	16.3	67.4	76.3	-0.5	-13.5	-1.8	2.2
D4	neutral 5	-118.0	24.4	51.6	63.7	0.1	-19.7	-1.1	6.5
E4	neutral 3.5	-177.4	30.2	36.9	50.8	-0.8	-25.3	-1.3	9.8
F4	black	-67.0	18.8	18.4	27.6	1.0	-14.2	0.2	6.3
A5	paper white	88.3	1.6	93.4	93.5	0.0	0.2	-0.4	-2.0
B5	skin highlight L*=89	68.2	6.3	84.2	87.4	11.3	6.9	11.0	7.6
C5	skin highlight L*=75	61.0	13.2	75.2	82.1	20.7	9.5	18.2	17.1
D5	skin shadow L*=25	33.8	19.6	23.9	33.5	15.9	1.3	19.4	28.4
E5	skin shadow L*=11	19.6	13.0	15.0	23.7	8.4	3.3	7.6	15.8
F5	Max Black	20.8	9.4	3.6	8.4	0.5	7.2	-2.6	1.8
Summary Results		I*Color	I*tone	 AARDENBURG IMAGING & ARCHIVES					
Average Score for all patches		26.6	71.2						
Average Score for the Worst 10% (3 lowest scoring patches)		-120.8	59.7						

9.8_{color} / 64.1_{tone}



Original Print Colors
(measured before light exposure)



Colors after 30 Megalux-hours
light exposure

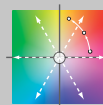
*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

30 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

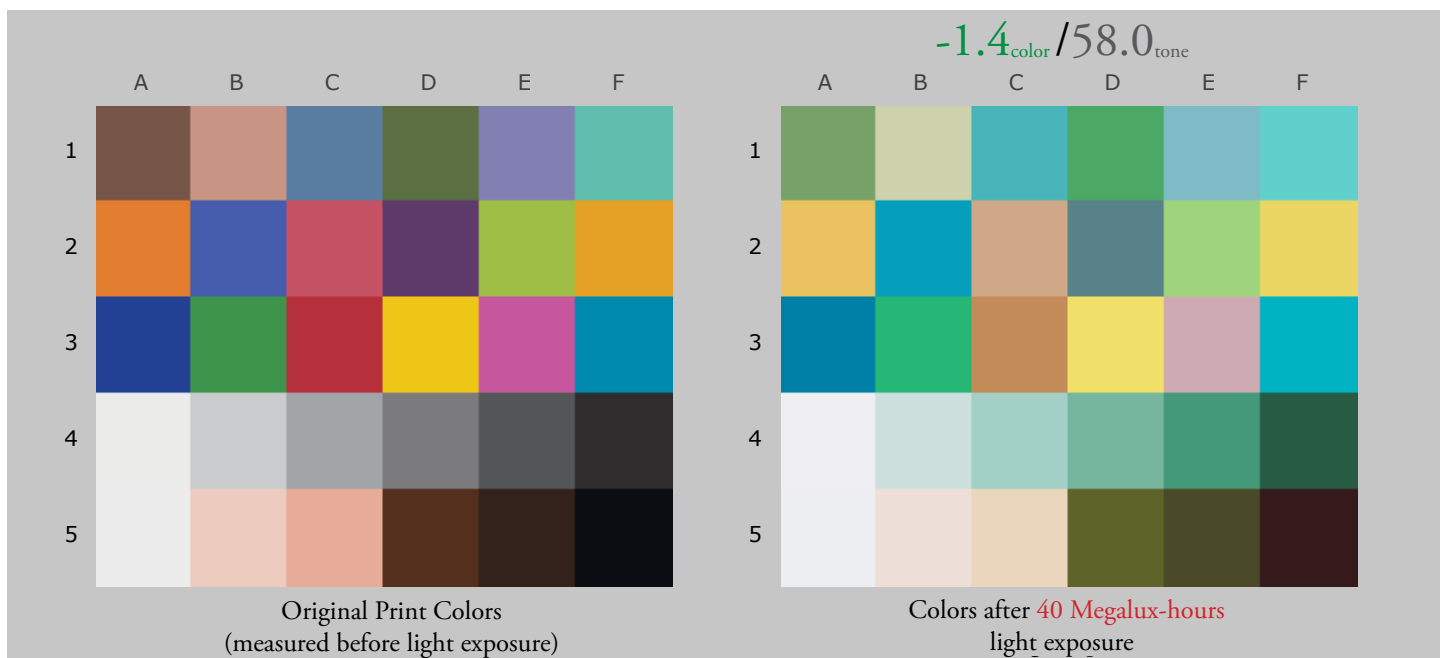
Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-89.6	42.5	39.7	59.4	14.3	-20.7	13.4	27.4
B1	light Skin	13.4	26.7	66.3	80.6	18.5	-3.8	17.4	20.9
C1	blue sky	-6.8	30.1	51.1	65.5	-5.1	-28.6	-23.7	-11.7
D1	foliage	3.4	29.9	44.3	60.0	-14.1	-38.2	21.6	29.8
E1	blue flower	-3.2	32.5	55.5	70.1	9.3	-15.8	-26.0	-11.5
F1	bluish green	85.5	7.2	71.1	76.1	-32.4	-34.2	-1.1	-5.9
A2	orange	63.1	29.3	63.5	77.9	36.3	10.9	57.2	59.0
B2	purplish blue	16.5	43.5	40.6	57.3	9.8	-24.5	-46.5	-25.6
C2	moderate red	35.8	37.1	51.5	68.7	48.1	16.5	15.5	24.7
D2	purple	-12.7	40.2	30.4	48.1	23.0	-9.9	-21.7	-6.8
E2	yellow green	78.8	14.6	72.5	78.6	-24.1	-28.7	55.2	42.7
F2	orange yellow	73.2	22.7	71.9	83.6	19.3	0.2	68.1	64.2
A3	blue	26.4	41.9	29.3	45.5	13.2	-20.8	-50.1	-31.8
B3	green	78.5	14.6	55.0	64.8	-38.6	-49.1	29.5	26.5
C3	red	47.5	36.7	42.2	58.8	54.4	22.9	28.5	37.4
D3	yellow	80.5	17.0	81.7	87.7	4.2	-4.3	78.9	65.4
E3	magenta	34.2	39.5	53.2	69.7	51.3	19.4	-16.3	0.2
F3	cyan	49.9	21.9	52.6	63.9	-21.8	-38.7	-29.2	-20.9
A4	white	83.6	2.2	93.5	94.2	0.1	0.2	0.9	-1.2
B4	neutral 8	35.5	8.8	81.4	87.2	-0.3	-6.9	-0.7	-0.7
C4	neutral 6.5	-57.7	19.0	67.4	78.5	-0.5	-15.6	-1.8	1.9
D4	neutral 5	-153.9	29.0	51.6	66.9	0.1	-23.3	-1.1	6.7
E4	neutral 3.5	-227.6	36.2	36.9	54.6	-0.8	-30.1	-1.3	10.6
F4	black	-121.6	25.1	18.4	31.4	1.0	-19.1	0.2	7.9
A5	paper white	88.8	1.7	93.4	94.0	0.0	0.1	-0.4	-1.9
B5	skin highlight L*=89	59.2	8.4	84.2	88.9	11.3	5.4	11.0	7.4
C5	skin highlight L*=75	49.2	17.4	75.2	84.8	20.7	6.3	18.2	16.7
D5	skin shadow L*=25	10.2	26.7	23.9	37.5	15.9	-3.8	19.4	31.4
E5	skin shadow L*=11	-20.8	18.8	15.0	27.4	8.4	-0.4	7.6	18.8
F5	Max Black	-25.2	14.4	3.6	10.9	0.5	11.1	-2.6	3.9

Summary Results

	I*Color	I*tone	ΔE
Average Score for all patches	9.8	64.1	24.5
Average Score for the Worst 10% (3 lowest scoring patches)	-167.7	45.7	42.6



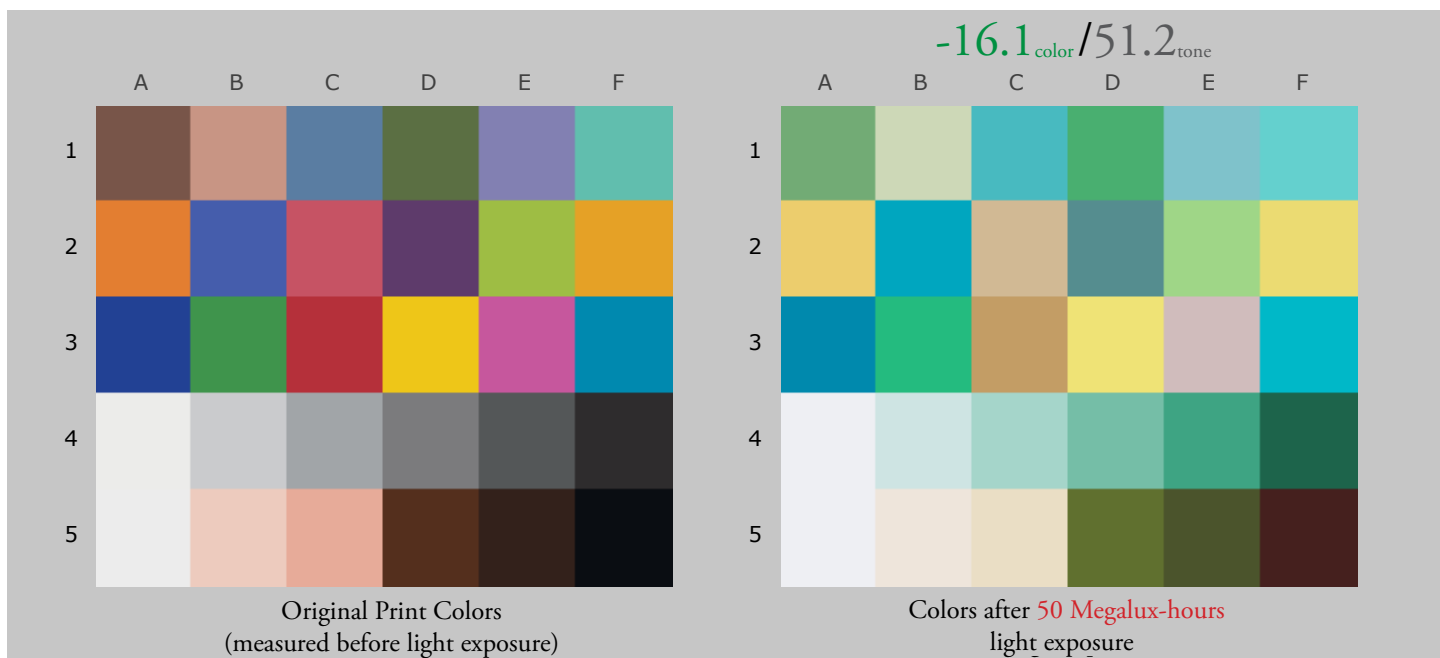
AARDENBURG IMAGING
& ARCHIVES



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

40 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

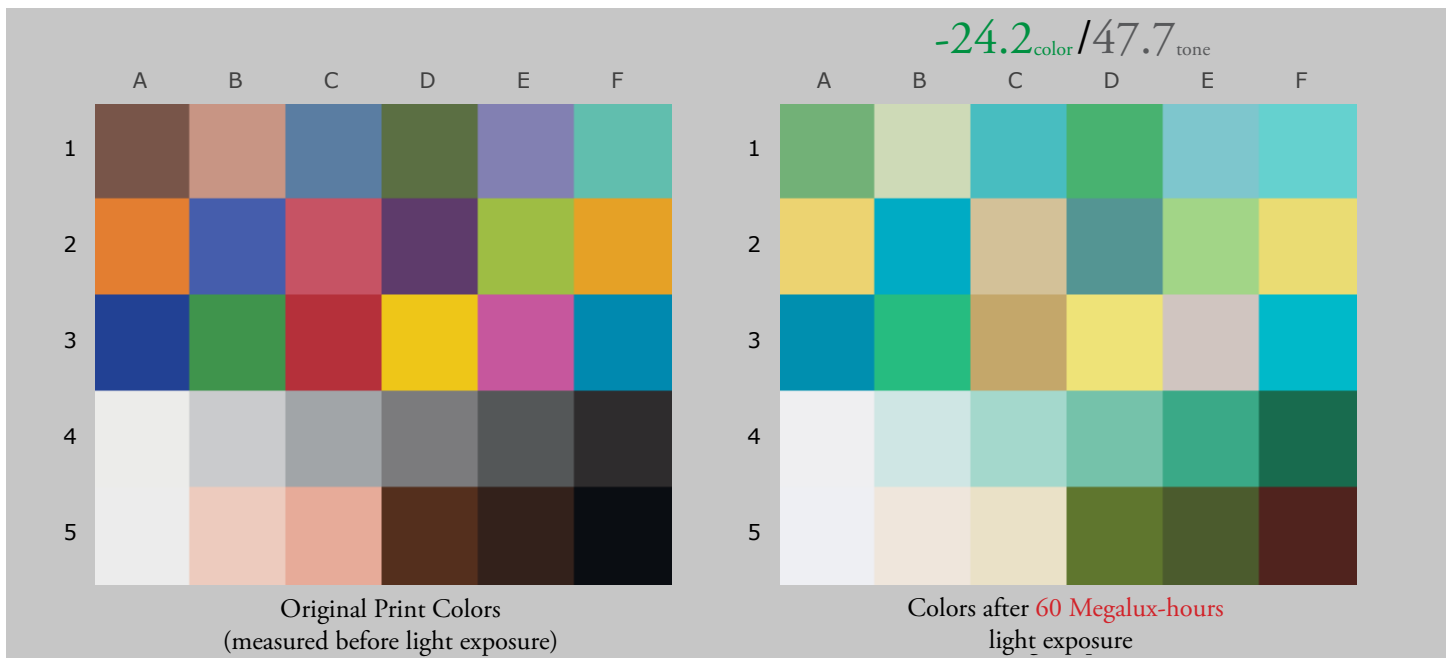
Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-101.9	46.0	39.7	62.3	14.3	-24.2	13.4	24.5
B1	light Skin	6.4	29.3	66.3	82.6	18.5	-5.8	17.4	17.6
C1	blue sky	-11.1	31.9	51.1	67.4	-5.1	-30.2	-23.7	-12.7
D1	foliage	-0.5	31.9	44.3	62.1	-14.1	-40.2	21.6	25.9
E1	blue flower	-9.5	34.9	55.5	72.1	9.3	-18.0	-26.0	-11.8
F1	bluish green	79.7	9.1	71.1	76.8	-32.4	-33.7	-1.1	-8.0
A2	orange	56.9	34.3	63.5	80.7	36.3	6.8	57.2	54.4
B2	purplish blue	10.5	47.1	40.6	59.6	9.8	-27.5	-46.5	-25.1
C2	moderate red	27.0	42.7	51.5	72.3	48.1	11.5	15.5	22.8
D2	purple	-23.9	44.9	30.4	51.4	23.0	-14.1	-21.7	-7.6
E2	yellow green	69.8	20.0	72.5	79.5	-24.1	-28.6	55.2	37.1
F2	orange yellow	67.6	27.0	71.9	85.4	19.3	-2.1	68.1	58.5
A3	blue	19.4	46.3	29.3	48.3	13.2	-24.6	-50.1	-31.2
B3	green	73.9	17.2	55.0	66.1	-38.6	-49.6	29.5	22.3
C3	red	38.5	43.4	42.2	62.7	54.4	16.9	28.5	35.8
D3	yellow	73.1	22.8	81.7	88.6	4.2	-5.3	78.9	59.3
E3	magenta	24.6	45.7	53.2	73.3	51.3	14.1	-16.3	1.2
F3	cyan	47.8	23.3	52.6	65.4	-21.8	-39.8	-29.2	-21.4
A4	white	80.8	2.5	93.5	94.4	0.1	0.2	0.9	-1.4
B4	neutral 8	30.0	9.7	81.4	88.0	-0.3	-7.4	-0.7	-1.4
C4	neutral 6.5	-66.6	20.7	67.4	80.0	-0.5	-16.7	-1.8	0.5
D4	neutral 5	-170.8	31.6	51.6	69.2	0.1	-25.5	-1.1	5.0
E4	neutral 3.5	-253.1	39.7	36.9	57.4	-0.8	-33.3	-1.3	8.9
F4	black	-160.7	29.9	18.4	34.3	1.0	-23.1	0.2	7.6
A5	paper white	86.8	1.9	93.4	94.2	0.0	0.2	-0.4	-2.1
B5	skin highlight L*=89	49.9	10.1	84.2	89.9	11.3	4.2	11.0	6.4
C5	skin highlight L*=75	40.4	20.5	75.2	86.7	20.7	4.1	18.2	15.1
D5	skin shadow L*=25	-8.5	32.5	23.9	40.8	15.9	-8.6	19.4	32.4
E5	skin shadow L*=11	-53.9	23.7	15.0	30.5	8.4	-4.3	7.6	20.3
F5	Max Black	-63.9	18.8	3.6	13.4	0.5	14.1	-2.6	6.0
Summary Results		I*Color	I*tone	 AARDENBURG IMAGING & ARCHIVES					
Average Score for all patches		-1.4	58.0						
Average Score for the Worst 10% (3 lowest scoring patches)		-194.8	35.2						



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

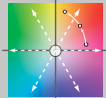
50 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

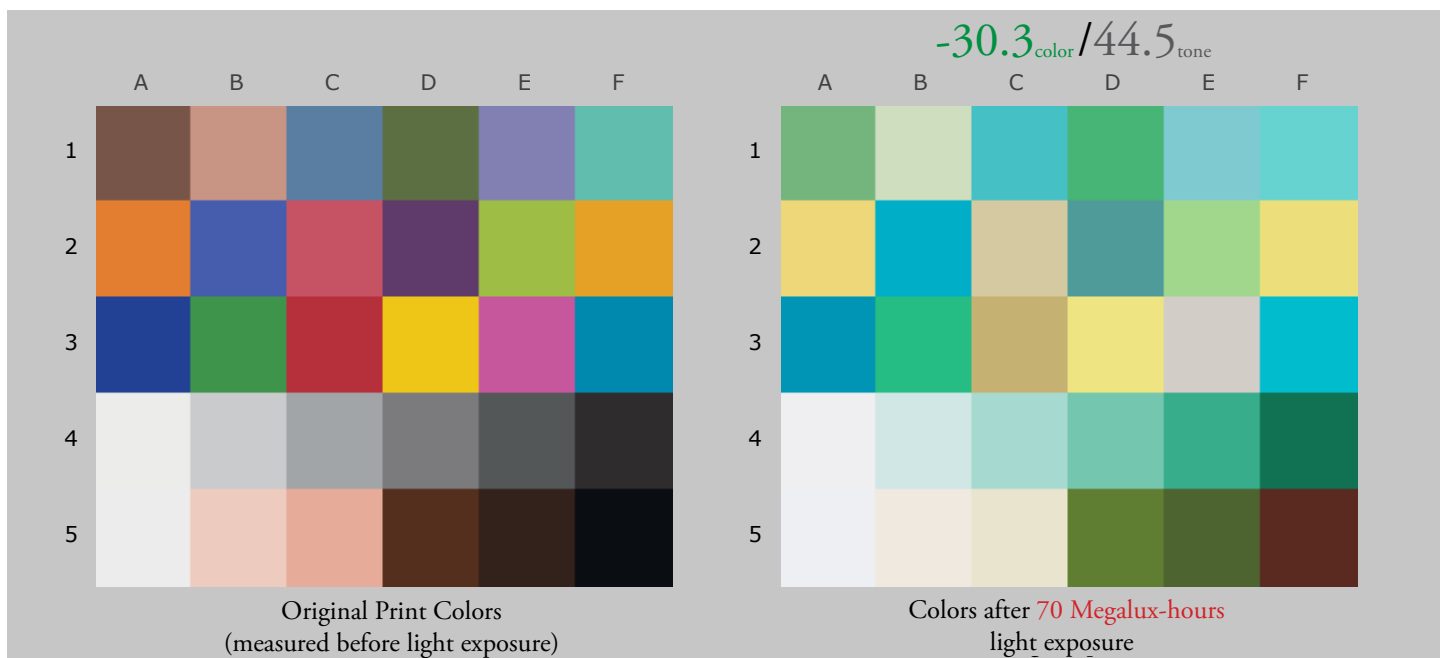
				L*		a*		b*	
Column/row	Color Patch	I*Color	ΔE	Before	After	Before	After	Before	After
A1	dark Skin	-116.4	49.9	39.7	65.2	14.3	-27.7	13.4	22.4
B1	light Skin	-1.8	32.1	66.3	84.6	18.5	-7.8	17.4	15.4
C1	blue sky	-17.3	34.2	51.1	69.2	-5.1	-32.0	-23.7	-13.1
D1	foliage	-6.9	34.4	44.3	64.1	-14.1	-42.2	21.6	23.1
E1	blue flower	-18.1	38.0	55.5	74.1	9.3	-20.5	-26.0	-11.6
F1	bluish green	75.9	10.4	71.1	77.4	-32.4	-33.3	-1.1	-9.3
A2	orange	50.1	39.7	63.5	83.5	36.3	2.6	57.2	50.8
B2	purplish blue	3.4	51.1	40.6	62.0	9.8	-30.8	-46.5	-24.2
C2	moderate red	15.3	49.9	51.5	76.5	48.1	5.4	15.5	22.3
D2	purple	-38.8	50.7	30.4	55.0	23.0	-19.0	-21.7	-7.4
E2	yellow green	62.5	24.4	72.5	80.2	-24.1	-28.5	55.2	32.5
F2	orange yellow	61.7	31.4	71.9	86.9	19.3	-4.1	68.1	53.5
A3	blue	11.0	51.5	29.3	51.3	13.2	-28.9	-50.1	-30.1
B3	green	69.0	19.8	55.0	67.3	-38.6	-50.0	29.5	19.0
C3	red	26.1	52.4	42.2	67.6	54.4	9.1	28.5	35.4
D3	yellow	66.1	28.3	81.7	89.3	4.2	-6.1	78.9	53.6
E3	magenta	10.1	54.9	53.2	78.2	51.3	6.6	-16.3	3.4
F3	cyan	44.4	25.2	52.6	66.9	-21.8	-41.1	-29.2	-21.5
A4	white	79.2	2.7	93.5	94.5	0.1	0.1	0.9	-1.6
B4	neutral 8	22.1	10.9	81.4	88.9	-0.3	-8.1	-0.7	-1.9
C4	neutral 6.5	-80.6	22.7	67.4	81.6	-0.5	-18.1	-1.8	-0.5
D4	neutral 5	-198.2	35.2	51.6	71.8	0.1	-28.3	-1.1	3.9
E4	neutral 3.5	-290.7	44.5	36.9	60.7	-0.8	-37.2	-1.3	8.0
F4	black	-209.5	35.7	18.4	37.8	1.0	-27.9	0.2	7.7
A5	paper white	85.8	2.1	93.4	94.4	0.0	0.1	-0.4	-2.2
B5	skin highlight L*=89	38.5	12.4	84.2	91.4	11.3	2.4	11.0	6.1
C5	skin highlight L*=75	29.0	24.4	75.2	88.9	20.7	1.1	18.2	14.0
D5	skin shadow L*=25	-30.8	39.2	23.9	44.6	15.9	-14.3	19.4	33.5
E5	skin shadow L*=11	-96.5	29.8	15.0	34.2	8.4	-9.4	7.6	21.9
F5	Max Black	-127.3	26.1	3.6	17.5	0.5	18.3	-2.6	10.5
Summary Results		I*Color	I*tone	ΔE	 AARDENBURG IMAGING & ARCHIVES				
Average Score for all patches		-16.1	51.2	32.1					
Average Score for the Worst 10% (3 lowest scoring patches)		-232.8	23.0	52.9					



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

60 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

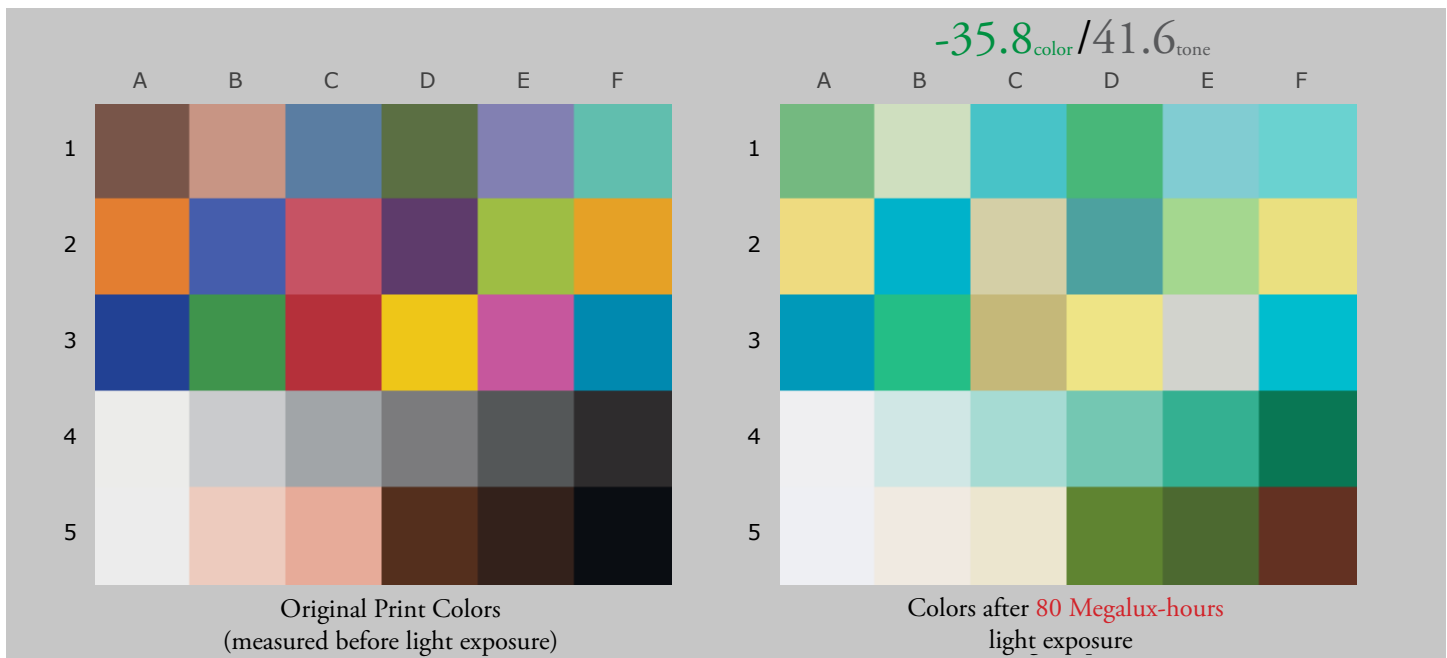
Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-128.3	52.7	39.7	66.9	14.3	-29.8	13.4	23.4
B1	light Skin	-6.5	33.6	66.3	85.6	18.5	-9.0	17.4	15.7
C1	blue sky	-22.7	35.8	51.1	70.3	-5.1	-33.2	-23.7	-12.5
D1	foliage	-11.8	36.0	44.3	65.2	-14.1	-43.4	21.6	23.9
E1	blue flower	-23.2	39.8	55.5	75.3	9.3	-21.8	-26.0	-11.0
F1	bluish green	77.6	10.2	71.1	77.7	-32.4	-33.3	-1.1	-8.8
A2	orange	46.9	42.3	63.5	85.0	36.3	0.4	57.2	51.1
B2	purplish blue	-0.4	53.3	40.6	63.5	9.8	-32.6	-46.5	-23.6
C2	moderate red	8.5	54.1	51.5	78.8	48.1	2.0	15.5	23.0
D2	purple	-49.2	54.7	30.4	57.2	23.0	-22.2	-21.7	-6.4
E2	yellow green	62.7	24.3	72.5	80.5	-24.1	-28.3	55.2	32.6
F2	orange yellow	60.3	32.7	71.9	87.6	19.3	-5.0	68.1	52.9
A3	blue	5.8	54.8	29.3	53.1	13.2	-31.5	-50.1	-29.3
B3	green	68.9	20.2	55.0	67.9	-38.6	-50.3	29.5	19.2
C3	red	19.2	57.5	42.2	70.4	54.4	4.9	28.5	36.1
D3	yellow	64.9	29.3	81.7	89.6	4.2	-6.2	78.9	52.6
E3	magenta	4.0	58.8	53.2	80.6	51.3	3.2	-16.3	3.9
F3	cyan	42.4	26.2	52.6	67.6	-21.8	-41.8	-29.2	-21.1
A4	white	82.4	2.4	93.5	94.6	0.1	0.1	0.9	-1.3
B4	neutral 8	20.4	11.3	81.4	89.3	-0.3	-8.3	-0.7	-1.7
C4	neutral 6.5	-85.6	23.5	67.4	82.4	-0.5	-18.6	-1.8	-0.5
D4	neutral 5	-210.0	36.8	51.6	73.0	0.1	-29.5	-1.1	4.0
E4	neutral 3.5	-308.9	46.8	36.9	62.2	-0.8	-39.0	-1.3	8.1
F4	black	-245.3	39.7	18.4	40.1	1.0	-31.1	0.2	9.2
A5	paper white	89.4	1.8	93.4	94.4	0.0	0.1	-0.4	-1.9
B5	skin highlight L*=89	34.4	13.3	84.2	91.9	11.3	1.6	11.0	6.1
C5	skin highlight L*=75	24.7	25.9	75.2	89.8	20.7	-0.1	18.2	13.7
D5	skin shadow L*=25	-46.9	43.8	23.9	46.8	15.9	-17.8	19.4	35.6
E5	skin shadow L*=11	-132.0	34.4	15.0	36.6	8.4	-12.8	7.6	24.0
F5	Max Black	-167.6	30.9	3.6	20.4	0.5	20.6	-2.6	13.8
Summary Results		I*Color	I*tone	 AARDENBURG IMAGING & ARCHIVES					
Average Score for all patches		-24.2	47.7						
Average Score for the Worst 10% (3 lowest scoring patches)		-254.7	15.0						



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

70 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

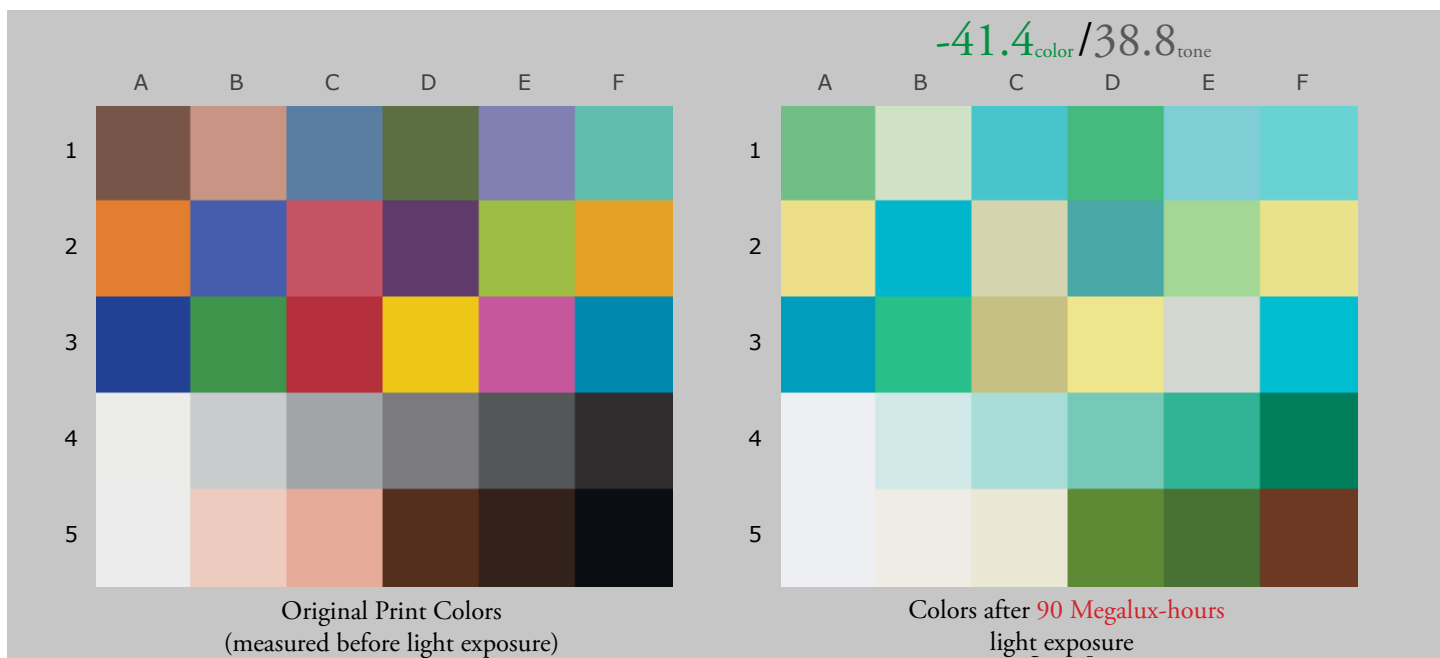
Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-133.6	54.4	39.7	68.3	14.3	-31.2	13.4	22.0
B1	light Skin	-9.1	34.7	66.3	86.5	18.5	-9.6	17.4	14.3
C1	blue sky	-23.5	36.5	51.1	71.2	-5.1	-33.6	-23.7	-13.0
D1	foliage	-13.4	37.0	44.3	66.2	-14.1	-43.9	21.6	22.5
E1	blue flower	-25.2	40.9	55.5	76.4	9.3	-22.6	-26.0	-11.3
F1	bluish green	75.8	10.8	71.1	78.0	-32.4	-32.7	-1.1	-9.4
A2	orange	43.9	44.8	63.5	86.3	36.3	-1.2	57.2	48.6
B2	purplish blue	-2.3	54.7	40.6	64.8	9.8	-33.7	-46.5	-23.8
C2	moderate red	3.7	57.3	51.5	81.0	48.1	-0.7	15.5	21.7
D2	purple	-56.0	57.7	30.4	59.4	23.0	-24.6	-21.7	-6.9
E2	yellow green	59.4	26.3	72.5	80.9	-24.1	-27.7	55.2	30.5
F2	orange yellow	57.3	34.8	71.9	88.3	19.3	-5.4	68.1	49.8
A3	blue	2.7	57.0	29.3	54.9	13.2	-33.4	-50.1	-29.5
B3	green	67.1	21.2	55.0	68.4	-38.6	-49.8	29.5	17.5
C3	red	13.8	61.6	42.2	72.9	54.4	1.4	28.5	34.8
D3	yellow	61.1	32.2	81.7	89.9	4.2	-6.1	78.9	49.4
E3	magenta	0.0	61.7	53.2	82.6	51.3	0.7	-16.3	3.5
F3	cyan	43.2	26.4	52.6	68.3	-21.8	-41.7	-29.2	-21.7
A4	white	80.7	2.6	93.5	94.7	0.1	0.1	0.9	-1.4
B4	neutral 8	21.1	11.4	81.4	89.6	-0.3	-8.1	-0.7	-2.2
C4	neutral 6.5	-84.3	23.8	67.4	83.0	-0.5	-18.5	-1.8	-1.4
D4	neutral 5	-212.0	37.5	51.6	74.0	0.1	-29.8	-1.1	2.7
E4	neutral 3.5	-315.2	48.0	36.9	63.6	-0.8	-39.9	-1.3	6.7
F4	black	-274.1	43.2	18.4	42.2	1.0	-33.8	0.2	9.6
A5	paper white	88.5	1.9	93.4	94.5	0.0	0.1	-0.4	-2.0
B5	skin highlight L*=89	29.5	14.2	84.2	92.5	11.3	1.1	11.0	5.4
C5	skin highlight L*=75	21.1	27.1	75.2	90.7	20.7	-0.8	18.2	12.3
D5	skin shadow L*=25	-61.1	48.0	23.9	49.1	15.9	-21.1	19.4	37.0
E5	skin shadow L*=11	-166.5	39.0	15.0	39.0	8.4	-16.3	7.6	25.9
F5	Max Black	-202.0	35.4	3.6	23.6	0.5	21.9	-2.6	17.2
Summary Results		I*Color	I*tone	ΔE	 AARDENBURG IMAGING & ARCHIVES				
Average Score for all patches		-30.3	44.5	36.1					
Average Score for the Worst 10% (3 lowest scoring patches)		-267.1	7.2	60.3					



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

80 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

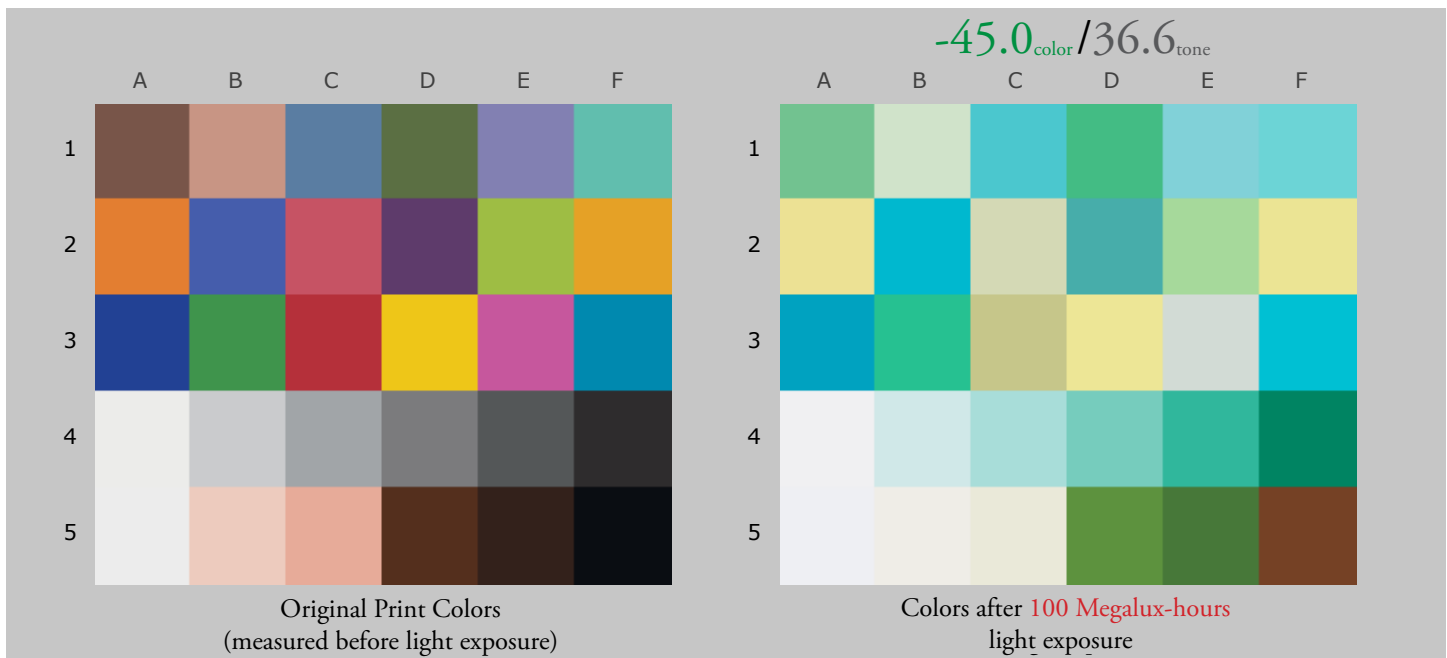
Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-140.0	56.1	39.7	69.5	14.3	-32.5	13.4	21.8
B1	light Skin	-11.4	35.6	66.3	87.2	18.5	-10.1	17.4	13.6
C1	blue sky	-25.9	37.5	51.1	72.0	-5.1	-34.2	-23.7	-13.0
D1	foliage	-15.8	37.9	44.3	66.9	-14.1	-44.5	21.6	22.3
E1	blue flower	-27.8	41.9	55.5	77.3	9.3	-23.3	-26.0	-11.2
F1	bluish green	75.7	11.0	71.1	78.2	-32.4	-32.3	-1.1	-9.4
A2	orange	41.6	46.6	63.5	87.3	36.3	-2.4	57.2	47.0
B2	purplish blue	-4.5	56.2	40.6	65.9	9.8	-34.9	-46.5	-23.6
C2	moderate red	-0.6	60.0	51.5	82.7	48.1	-2.9	15.5	21.0
D2	purple	-63.3	60.5	30.4	61.2	23.0	-27.0	-21.7	-6.7
E2	yellow green	58.2	27.1	72.5	81.0	-24.1	-27.3	55.2	29.7
F2	orange yellow	55.3	36.2	71.9	88.7	19.3	-5.6	68.1	47.8
A3	blue	-0.9	59.3	29.3	56.3	13.2	-35.3	-50.1	-29.1
B3	green	66.5	21.6	55.0	68.7	-38.6	-49.6	29.5	16.9
C3	red	8.8	65.3	42.2	75.0	54.4	-1.8	28.5	34.3
D3	yellow	58.7	34.1	81.7	90.0	4.2	-5.9	78.9	47.4
E3	magenta	-3.5	64.2	53.2	84.2	51.3	-1.4	-16.3	3.4
F3	cyan	43.0	26.7	52.6	68.7	-21.8	-41.8	-29.2	-21.7
A4	white	82.6	2.5	93.5	94.7	0.1	0.1	0.9	-1.2
B4	neutral 8	21.7	11.5	81.4	89.8	-0.3	-8.1	-0.7	-2.3
C4	neutral 6.5	-84.3	24.1	67.4	83.4	-0.5	-18.5	-1.8	-1.7
D4	neutral 5	-216.2	38.3	51.6	74.7	0.1	-30.3	-1.1	2.2
E4	neutral 3.5	-324.5	49.3	36.9	64.6	-0.8	-40.9	-1.3	6.2
F4	black	-302.4	46.4	18.4	44.0	1.0	-36.3	0.2	10.6
A5	paper white	90.9	1.7	93.4	94.4	0.0	0.1	-0.4	-1.7
B5	skin highlight L*=89	26.0	14.9	84.2	92.8	11.3	0.7	11.0	5.0
C5	skin highlight L*=75	18.4	28.1	75.2	91.2	20.7	-1.3	18.2	11.5
D5	skin shadow L*=25	-74.2	51.8	23.9	50.9	15.9	-24.0	19.4	38.5
E5	skin shadow L*=11	-198.0	43.1	15.0	41.2	8.4	-19.5	7.6	27.6
F5	Max Black	-226.7	39.2	3.6	26.9	0.5	22.3	-2.6	20.2
Summary Results		I*Color	I*tone	 AARDENBURG IMAGING & ARCHIVES					
Average Score for all patches		-35.8	41.6						
Average Score for the Worst 10% (3 lowest scoring patches)		-284.5	-0.7						



*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

90 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

Column/row	Color Patch	I*Color	ΔE	L*		a*		b*	
				Before	After	Before	After	Before	After
A1	dark Skin	-144.4	57.6	39.7	71.0	14.3	-33.7	13.4	19.8
B1	light Skin	-13.5	36.4	66.3	87.9	18.5	-10.3	17.4	11.6
C1	blue sky	-25.8	37.9	51.1	72.9	-5.1	-34.5	-23.7	-13.8
D1	foliage	-17.6	38.9	44.3	67.9	-14.1	-44.9	21.6	20.2
E1	blue flower	-28.6	42.5	55.5	78.1	9.3	-23.8	-26.0	-11.8
F1	bluish green	72.8	11.9	71.1	78.5	-32.4	-31.7	-1.1	-10.3
A2	orange	38.5	48.9	63.5	88.3	36.3	-3.5	57.2	43.1
B2	purplish blue	-6.1	57.3	40.6	67.0	9.8	-35.8	-46.5	-23.9
C2	moderate red	-3.8	62.3	51.5	84.3	48.1	-4.8	15.5	18.8
D2	purple	-69.5	63.2	30.4	63.1	23.0	-29.2	-21.7	-7.5
E2	yellow green	54.0	29.6	72.5	81.4	-24.1	-26.7	55.2	27.1
F2	orange yellow	51.3	39.0	71.9	89.2	19.3	-5.8	68.1	43.8
A3	blue	-4.0	61.4	29.3	57.8	13.2	-37.0	-50.1	-29.1
B3	green	63.8	22.9	55.0	69.1	-38.6	-49.2	29.5	15.0
C3	red	4.3	68.8	42.2	77.1	54.4	-4.8	28.5	32.2
D3	yellow	54.1	37.7	81.7	90.2	4.2	-5.8	78.9	43.5
E3	magenta	-6.0	66.0	53.2	85.7	51.3	-3.1	-16.3	2.6
F3	cyan	43.8	26.7	52.6	69.2	-21.8	-41.6	-29.2	-22.3
A4	white	79.4	2.7	93.5	94.7	0.1	0.2	0.9	-1.6
B4	neutral 8	21.8	11.7	81.4	90.0	-0.3	-7.9	-0.7	-3.0
C4	neutral 6.5	-82.8	24.3	67.4	83.9	-0.5	-18.4	-1.8	-2.8
D4	neutral 5	-216.8	38.8	51.6	75.5	0.1	-30.5	-1.1	0.7
E4	neutral 3.5	-328.3	50.3	36.9	65.8	-0.8	-41.6	-1.3	4.6
F4	black	-330.8	49.8	18.4	46.1	1.0	-39.1	0.2	10.3
A5	paper white	88.2	1.9	93.4	94.4	0.0	0.2	-0.4	-2.0
B5	skin highlight L*=89	20.7	15.8	84.2	93.2	11.3	0.4	11.0	3.9
C5	skin highlight L*=75	15.0	29.1	75.2	91.7	20.7	-1.7	18.2	9.7
D5	skin shadow L*=25	-87.6	55.8	23.9	53.1	15.9	-27.5	19.4	39.0
E5	skin shadow L*=11	-233.1	47.8	15.0	43.7	8.4	-23.6	7.6	28.6
F5	Max Black	-252.5	43.4	3.6	30.5	0.5	21.7	-2.6	23.9
Summary Results		I*Color	I*tone	 AARDENBURG IMAGING & ARCHIVES					
Average Score for all patches		-41.4	38.8						
Average Score for the Worst 10% (3 lowest scoring patches)		-303.8	-8.1						

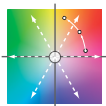
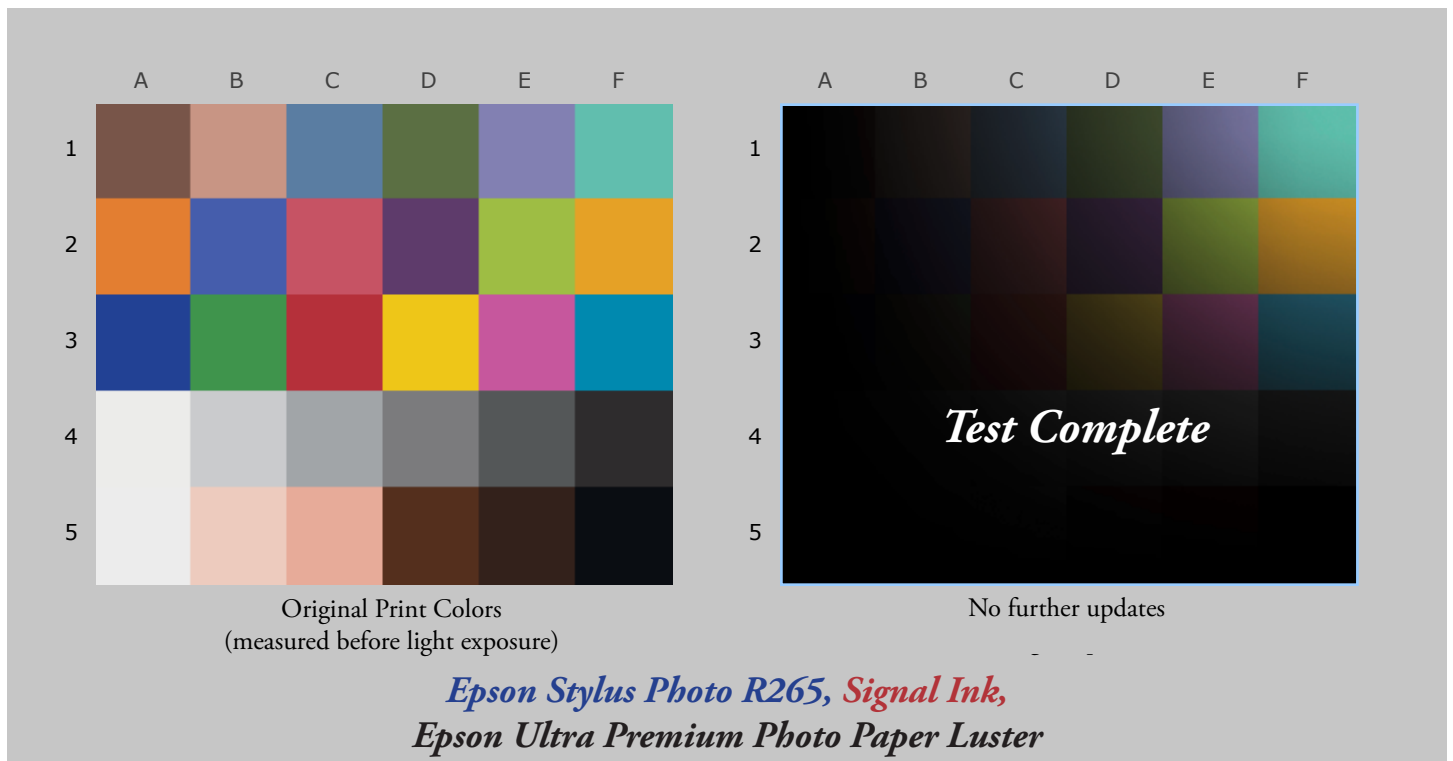


*Epson Stylus Photo R265, Signal Ink,
Epson Ultra Premium Photo Paper Luster*

100 Mlux-hrs Light Exposure (i.e., after) Compared to Original Print Colors (i.e., before)

				L*		a*		b*	
Column/row	Color Patch	I*Color	ΔE	Before	After	Before	After	Before	After
A1	dark Skin	-145.0	58.3	39.7	72.1	14.3	-34.1	13.4	17.2
B1	light Skin	-14.4	36.9	66.3	88.4	18.5	-10.1	17.4	9.8
C1	blue sky	-24.8	38.1	51.1	73.6	-5.1	-34.4	-23.7	-14.4
D1	foliage	-18.4	39.6	44.3	68.8	-14.1	-44.9	21.6	17.6
E1	blue flower	-28.6	42.9	55.5	78.9	9.3	-23.9	-26.0	-12.1
F1	bluish green	70.7	12.7	71.1	78.9	-32.4	-31.1	-1.1	-11.0
A2	orange	35.7	51.0	63.5	89.1	36.3	-3.9	57.2	39.3
B2	purplish blue	-7.3	58.3	40.6	67.9	9.8	-36.5	-46.5	-23.9
C2	moderate red	-5.4	63.6	51.5	85.5	48.1	-5.6	15.5	16.8
D2	purple	-73.2	65.1	30.4	64.8	23.0	-30.6	-21.7	-8.3
E2	yellow green	49.8	32.1	72.5	81.9	-24.1	-26.1	55.2	24.6
F2	orange yellow	47.4	41.7	71.9	89.7	19.3	-5.9	68.1	40.0
A3	blue	-6.6	63.3	29.3	59.2	13.2	-38.5	-50.1	-29.0
B3	green	60.5	24.6	55.0	69.8	-38.6	-48.8	29.5	12.7
C3	red	1.4	71.2	42.2	78.9	54.4	-6.6	28.5	29.9
D3	yellow	49.4	41.5	81.7	90.7	4.2	-5.6	78.9	39.6
E3	magenta	-7.3	67.2	53.2	86.8	51.3	-4.0	-16.3	2.1
F3	cyan	44.4	27.0	52.6	69.9	-21.8	-41.5	-29.2	-22.6
A4	white	81.6	2.7	93.5	94.9	0.1	0.2	0.9	-1.3
B4	neutral 8	23.1	11.9	81.4	90.4	-0.3	-7.7	-0.7	-3.2
C4	neutral 6.5	-80.4	24.5	67.4	84.4	-0.5	-18.1	-1.8	-3.5
D4	neutral 5	-214.8	39.2	51.6	76.4	0.1	-30.3	-1.1	-0.7
E4	neutral 3.5	-330.4	51.1	36.9	66.9	-0.8	-42.0	-1.3	2.8
F4	black	-351.7	52.6	18.4	48.1	1.0	-41.4	0.2	9.3
A5	paper white	90.5	1.8	93.4	94.6	0.0	0.1	-0.4	-1.8
B5	skin highlight L*=89	17.9	16.4	84.2	93.7	11.3	0.3	11.0	3.3
C5	skin highlight L*=75	12.9	30.0	75.2	92.3	20.7	-1.7	18.2	8.3
D5	skin shadow L*=25	-97.1	58.9	23.9	55.1	15.9	-30.4	19.4	38.3
E5	skin shadow L*=11	-257.4	51.3	15.0	45.9	8.4	-26.9	7.6	28.5
F5	Max Black	-273.7	46.9	3.6	33.7	0.5	20.8	-2.6	27.1
Summary Results		I*Color	I*tone	ΔE	AARDENBURG IMAGING & ARCHIVES				
Average Score for all patches		-45.0	36.6	40.7					
Average Score for the Worst 10% (3 lowest scoring patches)		-318.6	-12.4	67.8					

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AARDENBURG IMAGING
& ARCHIVES