

Print created by:	https://cielab.xyz	Measuring device:	EFI ES-2000 - M0
Last calibration:	2024_02_29 Granularity 51	Measurement conditions:	D50 2gr M0
Proofing system:	EFI 7	Measuring underlay:	White Backing
Control strip:	Ugra Fogra-MediaWedge V2.2a	Printer:	Epson
Delta E format:	dE CIE76	Proof profile:	PMPs 250 2024_02_29
Reference profile:	PSO Uncoated	Proofing substrate:	PMPs 250 FOGRA Sert
Reference data:	FOGRA 47L	Colorant:	Ultrachrome K3
Reference printing conditions:	PSO Uncoated	Job ID/Name	-/ PSO_Uncoated_ISO12647_ec...
Fogra PSD Visual Assessment	3cc Granularity 51		

## Summary

Criteria	Difference			Tolerance	Status
Average all patches	0.9	dE	-	3.0	OK
Maximum all patches	1.4	dE	Patch 21	6.0	OK
Paper white	0.8	dE	Patch 40	3.0	OK
Cyan	0.9	dE	Patch 1	5.0	OK
Magenta	1.2	dE	Patch 4	5.0	OK
Yellow	0.5	dE	Patch 7	5.0	OK
Black	0.6	dE	Patch 23	5.0	OK
Hue difference - CMY	1.0	dH	-	2.5	OK
Hue difference - CMYK	1.0	dH	-	2.5	OK
Hue difference - CMYRGB	1.0	dH	-	4.0	OK
Hue diff. average gray	0.4	dH	-	1.5	OK
Tone value diff.	1.2	%	Patch 19	10.0	OK
Average CMYK patches	0.5	dCh	-	2.5	OK
Maximum weighted CMY scale	0.6	dCh	-	3.0	OK
Average weighted CMY scale	0.4	dCh	-	1.5	OK
Maximum weighted K scale	1.0	dL	-	3.0	OK
Average weighted K scale	0.7	dL	-	1.5	OK
Maximum weighted CMY scale	0.9	dL	-	3.0	OK
Average weighted CMY scale	0.6	dL	-	1.5	OK

## Overall Result

PASSED

## Measuring data analysis

Patch ID	Reference				Measured			Color difference								Tone value diff.	Result
	C	M	Y	K	L*	a*	b*	L*	a*	b*	Delta E	dL*	da*	db*	dH*		
1	100	0	0	0	59.75	-26.32	-44.32	60.42	-25.78	-44.31	0.86	0.67	0.54	0.01	0.47	-	OK
2	70	0	0	0	68.49	-20.96	-34.14	69.24	-20.23	-34.25	1.05	0.75	0.73	0.11	0.68	-0.61%	OK
3	40	0	0	0	79.29	-13.26	-21.58	79.91	-12.78	-21.74	0.80	0.62	0.48	0.16	0.50	-0.80%	OK
4	0	100	0	0	55.73	60.18	-1.55	56.43	60.31	-2.56	1.24	0.70	0.13	1.01	1.01	-	OK
5	0	70	0	0	64.13	43.74	-6.07	64.62	43.86	-6.92	0.99	0.49	0.12	0.85	0.83	0.13%	OK
6	0	40	0	0	76.15	25.28	-6.48	76.81	25.43	-7.02	0.87	0.66	0.15	0.54	0.48	-0.63%	OK
7	0	0	100	0	88.66	-4.49	77.18	89.02	-4.90	77.13	0.55	0.36	0.41	0.05	0.42	-	OK
8	0	0	70	0	89.98	-4.67	57.88	90.33	-4.84	57.83	0.39	0.35	0.17	0.05	0.17	0.12%	OK
9	0	0	40	0	92.06	-4.23	32.83	92.52	-4.30	31.67	1.25	0.46	0.07	1.16	0.22	-1.10%	OK
10	20	70	70	0	56.15	28.34	18.85	56.55	28.99	17.74	1.35	0.40	0.65	1.11	1.29	-	OK
11	40	70	70	20	46.34	12.78	9.01	46.99	13.22	8.18	1.14	0.65	0.44	0.83	0.93	-	OK
12	40	100	100	20	40.01	22.67	9.21	40.48	23.03	8.69	0.79	0.47	0.36	0.52	0.61	-	OK
13	40	100	40	20	42.05	26.05	-1.20	42.37	26.61	-2.08	1.09	0.32	0.56	0.88	0.84	-	OK
14	40	40	100	20	52.15	-1.25	23.81	52.60	-0.80	22.99	1.04	0.45	0.45	0.82	0.42	-	OK
15	100	40	100	20	41.80	-20.89	2.95	42.40	-20.62	2.64	0.73	0.60	0.27	0.31	0.27	-	OK
16	100	40	40	20	43.82	-15.28	-14.89	44.80	-14.71	-15.21	1.18	0.98	0.57	0.32	0.63	-	OK
17	100	100	40	20	34.18	2.09	-13.14	35.12	2.79	-13.19	1.17	0.94	0.70	0.05	0.68	-	OK
18	0	0	0	10	87.78	-0.51	-2.24	88.54	-0.44	-2.64	0.86	0.76	0.07	0.40	0.14	-1.23%	OK
19	0	0	0	20	80.91	-0.53	-1.85	81.73	-0.40	-2.19	0.90	0.82	0.13	0.34	0.21	-1.23%	OK
20	0	0	0	40	67.38	-0.44	-1.19	68.15	-0.29	-1.54	0.86	0.77	0.15	0.35	0.24	-0.82%	OK
21	0	0	0	60	53.97	-0.19	-0.39	55.12	0.07	-1.12	1.39	1.15	0.26	0.73	0.36	-0.98%	OK
22	0	0	0	80	41.52	0.15	0.06	42.46	0.21	-0.41	1.05	0.94	0.06	0.47	0.36	-0.46%	OK
23	0	0	0	100	30.85	0.51	0.50	31.31	0.92	0.66	0.64	0.46	0.41	0.16	0.14	-	OK
24	100	100	0	0	37.95	7.60	-31.29	38.52	8.31	-31.75	1.02	0.57	0.71	0.46	0.58	-	OK
25	70	70	0	0	48.87	9.91	-28.98	49.56	10.46	-29.32	0.95	0.69	0.55	0.34	0.41	-	OK
26	40	40	0	0	64.80	8.04	-21.61	65.71	8.22	-21.59	0.93	0.91	0.18	0.02	0.18	-	OK
27	0	100	100	0	53.64	54.52	26.03	54.02	54.80	25.33	0.84	0.38	0.28	0.70	0.75	-	OK
28	0	70	70	0	61.27	40.45	27.23	61.79	40.41	26.20	1.15	0.52	0.04	1.03	0.84	-	OK
29	0	40	40	0	73.78	22.85	19.47	74.30	22.97	18.60	1.02	0.52	0.12	0.87	0.74	-	OK
30	100	0	100	0	53.76	-44.30	13.42	54.38	-44.42	12.68	0.97	0.62	0.12	0.74	0.75	-	OK
31	70	0	70	0	63.25	-33.35	15.31	63.89	-32.77	14.32	1.31	0.64	0.58	0.99	0.66	-	OK
32	40	0	40	0	76.15	-19.74	10.74	76.81	-19.15	10.07	1.11	0.66	0.59	0.67	0.32	-	OK
33	10	40	40	0	70.71	17.59	14.96	71.23	17.84	14.42	0.79	0.52	0.25	0.54	0.58	-	OK
34	0	40	100	0	70.79	22.23	51.50	71.08	22.21	51.26	0.38	0.29	0.02	0.24	0.08	-	OK
35	0	100	40	0	55.10	57.46	12.08	55.46	57.68	11.25	0.93	0.36	0.22	0.83	0.86	-	OK
36	40	100	0	0	47.27	37.16	-15.70	47.74	37.63	-16.32	0.91	0.47	0.47	0.62	0.38	-	OK
37	40	0	100	0	72.34	-22.95	47.68	72.67	-22.55	47.64	0.52	0.33	0.40	0.04	0.34	-	OK
38	100	0	40	0	56.81	-37.63	-16.01	57.56	-37.18	-16.50	1.00	0.75	0.45	0.49	0.63	-	OK
39	100	40	0	0	50.45	-11.26	-40.05	51.31	-10.61	-40.07	1.08	0.86	0.65	0.02	0.64	-	OK
40	0	0	0	0	95.05	-0.02	-2.07	95.33	-0.11	-2.83	0.81	0.28	0.09	0.76	0.07	-	OK
41	10	6	6	0	87.55	-0.98	-3.09	88.35	-0.85	-3.63	0.97	0.80	0.13	0.54	0.26	-	OK
42	20	12	12	0	80.80	-1.59	-3.65	81.55	-1.43	-4.01	0.85	0.75	0.16	0.36	0.28	-	OK
43	40	27	27	0	67.32	-2.51	-3.60	68.00	-2.33	-3.97	0.79	0.68	0.18	0.37	0.35	-	OK
44	60	45	45	0	55.06	-3.67	-3.36	56.15	-3.17	-3.84	1.29	1.09	0.50	0.48	0.69	-	OK
45	80	65	65	0	44.88	-4.99	-3.54	45.65	-4.69	-3.93	0.91	0.77	0.30	0.39	0.50	-	OK
46	100	85	85	0	37.50	-6.68	-3.96	37.80	-6.39	-4.17	0.47	0.30	0.29	0.21	0.33	-	OK

## Color space comparison

■ Reference  
■ Measured

## Primary colors

● Reference

C: L\*59.75 a\*-26.32 b\*-44.32

M: L\*55.73 a\*60.18 b\*-1.55

Y: L\*88.66 a\*-4.49 b\*77.18

K: L\*30.85 a\*0.51 b\*0.50

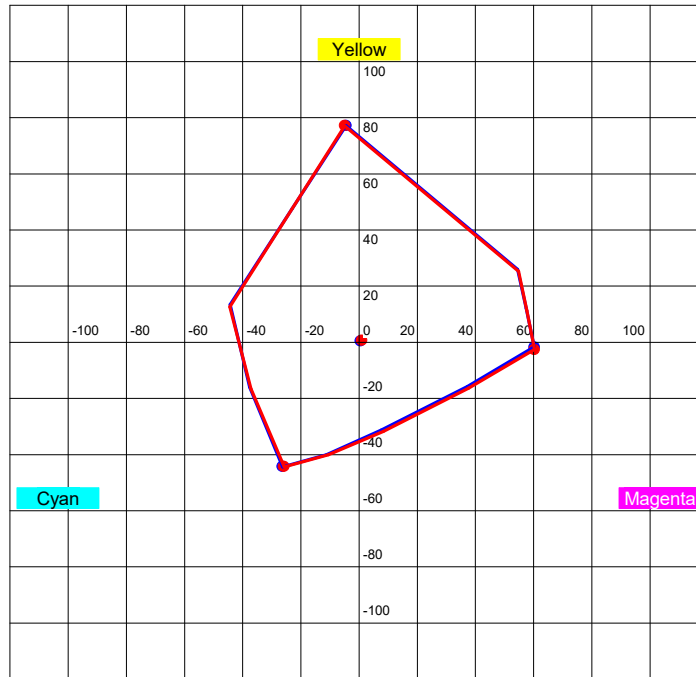
● Measured

C: L\*60.42 a\*-25.78 b\*-44.31

M: L\*56.43 a\*60.31 b\*-2.56

Y: L\*89.02 a\*-4.90 b\*77.13

K: L\*31.31 a\*0.92 b\*0.66



## Gradation Curves

