

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	1.6	dE	-	3.0	OK
Maximum all patches	2.7	dE	Patch 34	6.0	OK
Paper white	1.4	dE	Patch 40	3.0	OK
Cyan	1.3	dE	Patch 1	5.0	OK
Magenta	1.5	dE	Patch 4	5.0	OK
Yellow	0.6	dE	Patch 7	5.0	OK
Black	1.6	dE	Patch 23	5.0	OK
Hue difference - CMY	1.1	dH	-	2.5	OK
Hue difference - CMYK	1.1	dH	-	2.5	OK
Hue difference - CMYRGB	1.9	dH	-	4.0	OK
Hue diff. average gray	1.0	dH	-	1.5	OK
Tone value diff.	1.4	%	Patch 3	10.0	OK
Average CMYK patches	1.2	dCh	-	2.5	OK
Maximum weighted CMY scale	1.3	dCh	-	3.0	OK
Average weighted CMY scale	0.9	dCh	-	1.5	OK
Maximum weighted K scale	1.3	dL	-	3.0	OK
Average weighted K scale	0.8	dL	-	1.5	OK
Maximum weighted CMY scale	1.2	dL	-	3.0	OK
Average weighted CMY scale	0.8	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	60.21	-25.16	-44.50	1.26	0.46	1.16	0.18	1.09	-	OK
2	70	0	0	0	68.49	-20.96	-34.14	69.22	-19.86	-34.78	1.47	0.73	1.11	0.64	1.27	-0.86%	OK
3	40	0	0	0	79.29	-13.26	-21.58	80.00	-12.38	-21.96	1.19	0.72	0.88	0.38	0.95	-1.43%	OK
4	0	100	0	0	55.73	60.18	-1.55	56.28	61.09	-2.55	1.46	0.55	0.91	1.00	0.97	-	OK
5	0	70	0	0	64.13	43.74	-6.07	64.61	44.44	-7.05	1.30	0.48	0.70	0.98	0.87	-0.08%	OK
6	0	40	0	0	76.15	25.28	-6.48	76.93	25.94	-7.26	1.29	0.78	0.67	0.78	0.58	-1.15%	OK
7	0	0	100	0	88.66	-4.49	77.18	88.83	-4.46	76.59	0.61	0.17	0.02	0.59	0.01	-	OK
8	0	0	70	0	89.98	-4.67	57.88	90.10	-4.21	56.94	1.05	0.13	0.46	0.94	0.39	-0.04%	OK
9	0	0	40	0	92.06	-4.23	32.83	92.60	-4.00	31.62	1.34	0.54	0.23	1.22	0.07	-0.88%	OK
10	20	70	70	0	56.15	28.34	18.85	56.13	30.49	17.68	2.45	0.02	2.15	1.17	2.13	-	OK
11	40	70	70	20	46.34	12.78	9.01	46.91	14.60	8.15	2.09	0.57	1.82	0.85	1.69	-	OK
12	40	100	100	20	40.01	22.67	9.21	40.10	24.09	8.55	1.57	0.09	1.42	0.66	1.12	-	OK
13	40	100	40	20	42.05	26.05	-1.20	42.40	27.60	-2.37	1.97	0.35	1.55	1.17	1.06	-	OK
14	40	40	100	20	52.15	-1.25	23.81	52.42	0.07	22.48	1.89	0.27	1.33	1.33	1.29	-	OK
15	100	40	100	20	41.80	-20.89	2.95	42.46	-20.08	2.58	1.11	0.66	0.81	0.37	0.26	-	OK
16	100	40	40	20	43.82	-15.28	-14.89	45.05	-13.73	-15.38	2.04	1.24	1.54	0.49	1.45	-	OK
17	100	100	40	20	34.18	2.09	-13.14	34.74	4.34	-13.08	2.32	0.56	2.24	0.06	2.19	-	OK
18	0	0	0	10	87.78	-0.51	-2.24	88.52	-0.15	-3.20	1.26	0.74	0.35	0.96	0.47	-1.25%	OK
19	0	0	0	20	80.91	-0.53	-1.85	81.81	-0.13	-2.94	1.47	0.90	0.40	1.09	0.56	-1.39%	OK
20	0	0	0	40	67.38	-0.44	-1.19	68.18	0.22	-1.74	1.17	0.80	0.67	0.54	0.72	-0.74%	OK
21	0	0	0	60	53.97	-0.19	-0.39	55.47	0.71	-1.45	2.05	1.50	0.91	1.06	0.74	-1.20%	OK
22	0	0	0	80	41.52	0.15	0.06	43.03	0.68	-0.64	1.75	1.52	0.53	0.69	0.41	-0.67%	OK
23	0	0	0	100	30.85	0.51	0.50	31.88	1.73	0.67	1.61	1.02	1.22	0.17	0.46	-	OK
24	100	100	0	0	37.95	7.60	-31.29	37.72	9.93	-32.50	2.64	0.23	2.33	1.21	1.93	-	OK
25	70	70	0	0	48.87	9.91	-28.98	49.23	11.48	-29.73	1.78	0.36	1.57	0.75	1.22	-	OK
26	40	40	0	0	64.80	8.04	-21.61	65.88	8.86	-21.62	1.36	1.08	0.83	0.01	0.77	-	OK
27	0	100	100	0	53.64	54.52	26.03	53.41	56.04	25.95	1.54	0.23	1.52	0.08	0.72	-	OK
28	0	70	70	0	61.27	40.45	27.23	61.54	41.48	26.09	1.56	0.27	1.03	1.14	1.52	-	OK
29	0	40	40	0	73.78	22.85	19.47	74.30	23.68	18.24	1.57	0.53	0.84	1.23	1.48	-	OK
30	100	0	100	0	53.76	-44.30	13.42	53.91	-44.75	12.90	0.70	0.15	0.46	0.52	0.63	-	OK
31	70	0	70	0	63.25	-33.35	15.31	63.62	-32.44	14.39	1.35	0.38	0.92	0.91	0.46	-	OK
32	40	0	40	0	76.15	-19.74	10.74	76.88	-19.10	10.76	0.97	0.74	0.64	0.02	0.33	-	OK
33	10	40	40	0	70.71	17.59	14.96	71.11	18.52	14.69	1.05	0.40	0.93	0.27	0.80	-	OK
34	0	40	100	0	70.79	22.23	51.50	71.17	23.26	49.07	2.67	0.39	1.03	2.43	1.94	-	OK
35	0	100	40	0	55.10	57.46	12.08	55.19	58.49	11.43	1.22	0.09	1.03	0.65	0.84	-	OK
36	40	100	0	0	47.27	37.16	-15.70	47.98	38.39	-15.75	1.42	0.71	1.23	0.04	0.43	-	OK
37	40	0	100	0	72.34	-22.95	47.68	72.79	-21.33	45.68	2.61	0.45	1.62	2.00	0.61	-	OK
38	100	0	40	0	56.81	-37.63	-16.01	57.88	-36.51	-16.63	1.67	1.07	1.12	0.62	1.02	-	OK
39	100	40	0	0	50.45	-11.26	-40.05	51.66	-9.45	-39.89	2.18	1.20	1.82	0.16	1.72	-	OK
40	0	0	0	0	95.05	-0.02	-2.07	95.28	-0.21	-3.42	1.38	0.23	0.19	1.35	0.13	-	OK
41	10	6	6	0	87.55	-0.98	-3.09	88.43	-0.57	-4.10	1.40	0.88	0.41	1.00	0.61	-	OK
42	20	12	12	0	80.80	-1.59	-3.65	81.58	-1.15	-4.73	1.40	0.78	0.44	1.08	0.76	-	OK
43	40	27	27	0	67.32	-2.51	-3.60	68.09	-1.67	-4.33	1.35	0.77	0.84	0.73	1.09	-	OK
44	60	45	45	0	55.06	-3.67	-3.36	56.49	-2.30	-4.10	2.11	1.43	1.37	0.74	1.53	-	OK
45	80	65	65	0	44.88	-4.99	-3.54	46.14	-3.97	-4.12	1.72	1.26	1.02	0.58	1.10	-	OK
46	100	85	85	0	37.50	-6.68	-3.96	38.29	-5.93	-4.51	1.22	0.79	0.74	0.55	0.87	-	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

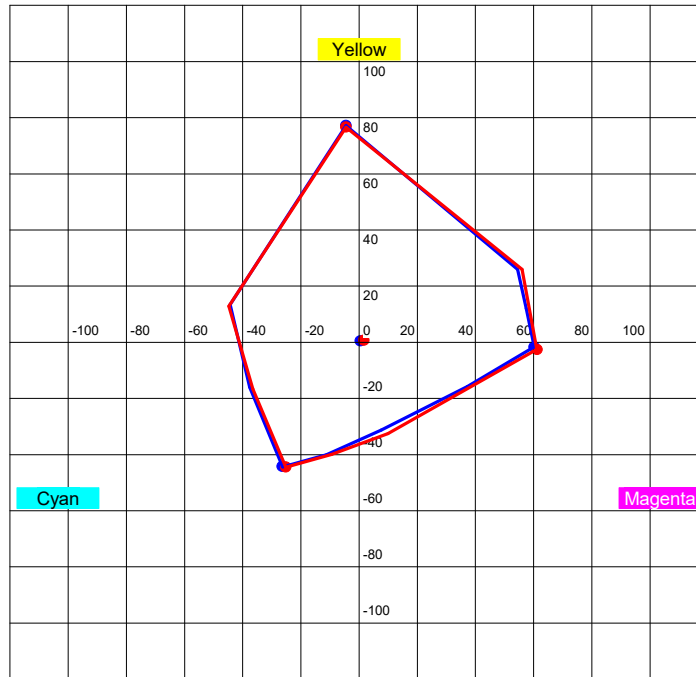
● Measured

C: L*60.21 a*-25.16 b*-44.50

M: L*56.28 a*61.09 b*-2.55

Y: L*88.83 a*-4.46 b*76.59

K: L*31.88 a*1.73 b*0.67



Gradation Curves

