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|---------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Print created by: | https://cielab.xyz | Measuring device: | EFI ES-2000 - M0 |
| Last calibration: | 2023_10_27 granularity 41 | 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: | EFI 4245 - 2023_10 |
| Reference profile: | ISO Coated v2 | Proofing substrate: | EFI 4245 FOGRA Sert |
| Reference data: | FOGRA 39L | Colorant: | Ultrachrome K3 |
| Reference printing conditions: | ISO Coated v2 | Job ID/Name | -/ ISOcoated_v2_300_eci_WP_... |
| Fogra PSD Visual Assessment | - | | |

Summary

| Criteria | Difference | Tolerance | Status |
|----------------------------|-----------------|-----------|--------|
| Average all patches | 0.8 dE - | 3.0 | OK |
| Maximum all patches | 1.8 dE Patch 24 | 6.0 | OK |
| Paper white | 0.3 dE Patch 40 | 3.0 | OK |
| Cyan | 0.9 dE Patch 1 | 5.0 | OK |
| Magenta | 1.4 dE Patch 4 | 5.0 | OK |
| Yellow | 0.8 dE Patch 7 | 5.0 | OK |
| Black | 0.6 dE Patch 23 | 5.0 | OK |
| Hue difference - CMY | 0.7 dH - | 2.5 | OK |
| Hue difference - CMYK | 0.7 dH - | 2.5 | OK |
| Hue difference - CMYRGB | 0.8 dH - | 4.0 | OK |
| Hue diff. average gray | 0.4 dH - | 1.5 | OK |
| Tone value diff. | 1.1 % Patch 21 | 10.0 | OK |
| Average CMYK patches | 0.7 dCh - | 2.5 | OK |
| Maximum weighted CMY scale | 0.8 dCh - | 3.0 | OK |
| Average weighted CMY scale | 0.5 dCh - | 1.5 | OK |
| Maximum weighted K scale | 0.9 dL - | 3.0 | OK |
| Average weighted K scale | 0.3 dL - | 1.5 | OK |
| Maximum weighted CMY scale | 0.6 dL - | 3.0 | OK |
| Average weighted CMY scale | 0.4 dL - | 1.5 | OK |

Overall Result

PASSED

Measuring data analysis

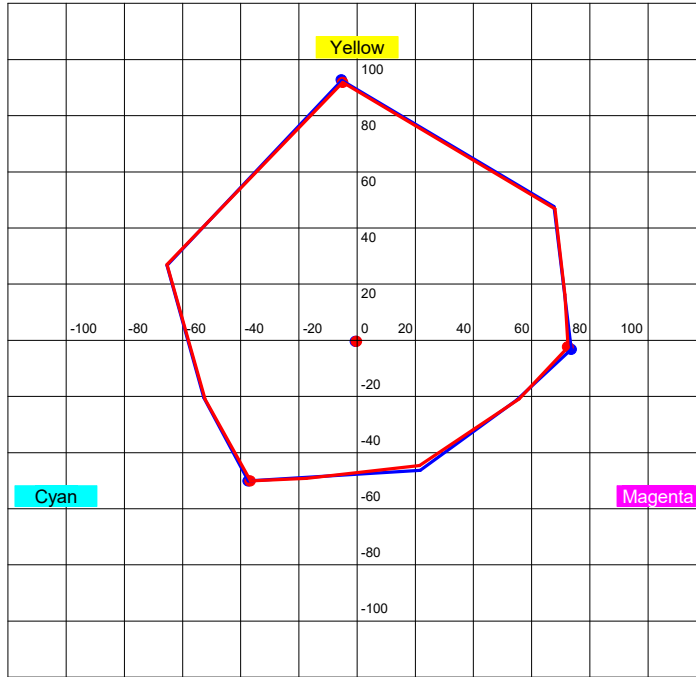
| Patch ID | Reference | | | | Measured | | | Color difference | | | | | | | Result | | |
|----------|-----------|-----|-----|-----|----------|--------|--------|------------------|--------|--------|---------|------|------|------|--------|--------|------------------|
| | C | M | Y | K | L* | a* | b* | L* | a* | b* | Delta E | dL* | da* | db* | | dH* | Tone value diff. |
| 1 | 100 | 0 | 0 | 0 | 55.01 | -37.38 | -50.11 | 54.56 | -36.62 | -50.07 | 0.88 | 0.44 | 0.75 | 0.04 | 0.58 | - | OK |
| 2 | 70 | 0 | 0 | 0 | 66.88 | -25.08 | -37.20 | 66.82 | -24.37 | -37.43 | 0.75 | 0.06 | 0.71 | 0.23 | 0.72 | -0.24% | OK |
| 3 | 40 | 0 | 0 | 0 | 79.73 | -12.89 | -21.83 | 79.63 | -13.04 | -22.11 | 0.33 | 0.10 | 0.15 | 0.28 | 0.01 | 0.55% | OK |
| 4 | 0 | 100 | 0 | 0 | 48.00 | 73.61 | -3.21 | 48.15 | 72.47 | -2.45 | 1.38 | 0.15 | 1.14 | 0.76 | 0.72 | - | OK |
| 5 | 0 | 70 | 0 | 0 | 60.86 | 50.26 | -6.92 | 60.84 | 50.73 | -7.01 | 0.48 | 0.02 | 0.46 | 0.09 | 0.03 | 0.30% | OK |
| 6 | 0 | 40 | 0 | 0 | 76.43 | 25.42 | -7.07 | 77.06 | 25.21 | -6.40 | 0.94 | 0.63 | 0.21 | 0.67 | 0.60 | -0.98% | OK |
| 7 | 0 | 0 | 100 | 0 | 89.02 | -5.32 | 92.62 | 89.08 | -5.00 | 91.86 | 0.83 | 0.07 | 0.32 | 0.77 | 0.27 | - | OK |
| 8 | 0 | 0 | 70 | 0 | 90.35 | -5.02 | 62.25 | 89.94 | -4.15 | 61.63 | 1.14 | 0.41 | 0.87 | 0.62 | 0.82 | 0.50% | OK |
| 9 | 0 | 0 | 40 | 0 | 92.20 | -3.82 | 30.95 | 91.82 | -3.92 | 30.24 | 0.81 | 0.37 | 0.10 | 0.71 | 0.19 | 0.57% | OK |
| 10 | 20 | 70 | 70 | 0 | 53.13 | 37.35 | 28.58 | 53.23 | 37.12 | 28.85 | 0.37 | 0.10 | 0.23 | 0.26 | 0.35 | - | OK |
| 11 | 40 | 70 | 70 | 20 | 41.59 | 22.31 | 16.36 | 41.42 | 22.06 | 16.89 | 0.61 | 0.17 | 0.25 | 0.53 | 0.57 | - | OK |
| 12 | 40 | 100 | 100 | 20 | 31.94 | 39.53 | 23.58 | 31.78 | 38.94 | 23.37 | 0.65 | 0.16 | 0.59 | 0.21 | 0.12 | - | OK |
| 13 | 40 | 100 | 40 | 20 | 32.56 | 44.02 | -2.14 | 32.90 | 44.10 | -1.47 | 0.76 | 0.34 | 0.08 | 0.67 | 0.67 | - | OK |
| 14 | 40 | 40 | 100 | 20 | 51.30 | 0.89 | 44.12 | 51.29 | 1.12 | 43.70 | 0.48 | 0.01 | 0.23 | 0.42 | 0.24 | - | OK |
| 15 | 100 | 40 | 100 | 20 | 34.59 | -36.83 | 13.50 | 34.19 | -35.92 | 13.19 | 1.04 | 0.40 | 0.91 | 0.32 | 0.02 | - | OK |
| 16 | 100 | 40 | 40 | 20 | 35.98 | -26.56 | -21.11 | 35.62 | -25.90 | -20.91 | 0.78 | 0.36 | 0.66 | 0.21 | 0.25 | - | OK |
| 17 | 100 | 100 | 40 | 20 | 20.99 | 9.09 | -23.95 | 21.17 | 8.43 | -23.50 | 0.82 | 0.18 | 0.65 | 0.44 | 0.46 | - | OK |
| 18 | 0 | 0 | 0 | 10 | 88.95 | -0.39 | -2.15 | 89.05 | -0.15 | -2.17 | 0.26 | 0.10 | 0.24 | 0.02 | 0.24 | 0.27% | OK |
| 19 | 0 | 0 | 0 | 20 | 82.77 | -0.47 | -2.16 | 83.09 | -0.26 | -1.74 | 0.57 | 0.32 | 0.22 | 0.41 | 0.14 | -0.27% | OK |
| 20 | 0 | 0 | 0 | 40 | 69.27 | -0.52 | -2.18 | 69.43 | -0.10 | -1.54 | 0.78 | 0.15 | 0.42 | 0.63 | 0.32 | -0.03% | OK |
| 21 | 0 | 0 | 0 | 60 | 54.15 | -0.52 | -1.37 | 55.23 | 0.18 | -1.50 | 1.29 | 1.07 | 0.70 | 0.13 | 0.71 | -1.11% | OK |
| 22 | 0 | 0 | 0 | 80 | 36.64 | -0.45 | -0.88 | 36.06 | -0.23 | -1.07 | 0.65 | 0.58 | 0.22 | 0.20 | 0.28 | 0.32% | OK |
| 23 | 0 | 0 | 0 | 100 | 16.04 | -0.51 | -0.38 | 15.59 | -0.18 | -0.36 | 0.56 | 0.44 | 0.33 | 0.02 | 0.23 | - | OK |
| 24 | 100 | 100 | 0 | 0 | 23.91 | 21.68 | -46.31 | 24.29 | 21.46 | -44.61 | 1.76 | 0.38 | 0.23 | 1.70 | 0.52 | - | OK |
| 25 | 70 | 70 | 0 | 0 | 40.95 | 17.46 | -36.81 | 40.78 | 18.48 | -36.12 | 1.24 | 0.17 | 1.02 | 0.69 | 1.21 | - | OK |
| 26 | 40 | 40 | 0 | 0 | 63.70 | 9.97 | -23.92 | 63.96 | 10.80 | -23.42 | 1.00 | 0.26 | 0.83 | 0.50 | 0.96 | - | OK |
| 27 | 0 | 100 | 100 | 0 | 47.02 | 67.62 | 47.63 | 46.97 | 68.04 | 46.90 | 0.84 | 0.04 | 0.42 | 0.73 | 0.84 | - | OK |
| 28 | 0 | 70 | 70 | 0 | 58.54 | 46.74 | 37.51 | 58.52 | 46.86 | 36.79 | 0.73 | 0.03 | 0.12 | 0.72 | 0.63 | - | OK |
| 29 | 0 | 40 | 40 | 0 | 74.18 | 22.59 | 21.16 | 74.63 | 23.20 | 20.93 | 0.79 | 0.45 | 0.61 | 0.23 | 0.58 | - | OK |
| 30 | 100 | 0 | 100 | 0 | 50.03 | -65.37 | 26.71 | 49.45 | -65.40 | 27.02 | 0.66 | 0.58 | 0.02 | 0.30 | 0.27 | - | OK |
| 31 | 70 | 0 | 70 | 0 | 62.18 | -40.23 | 20.70 | 62.06 | -39.45 | 19.62 | 1.34 | 0.12 | 0.78 | 1.08 | 0.61 | - | OK |
| 32 | 40 | 0 | 40 | 0 | 76.96 | -19.41 | 10.82 | 77.33 | -18.74 | 10.49 | 0.83 | 0.37 | 0.67 | 0.33 | 0.04 | - | OK |
| 33 | 10 | 40 | 40 | 0 | 71.21 | 18.49 | 17.00 | 71.71 | 18.95 | 16.68 | 0.75 | 0.50 | 0.46 | 0.32 | 0.55 | - | OK |
| 34 | 0 | 40 | 100 | 0 | 71.29 | 21.76 | 72.73 | 71.68 | 21.87 | 72.19 | 0.68 | 0.39 | 0.11 | 0.53 | 0.26 | - | OK |
| 35 | 0 | 100 | 40 | 0 | 47.75 | 70.79 | 15.93 | 47.68 | 71.43 | 16.36 | 0.77 | 0.08 | 0.63 | 0.43 | 0.28 | - | OK |
| 36 | 40 | 100 | 0 | 0 | 38.04 | 54.95 | -21.23 | 38.36 | 55.63 | -20.90 | 0.82 | 0.32 | 0.68 | 0.34 | 0.56 | - | OK |
| 37 | 40 | 0 | 100 | 0 | 73.67 | -23.19 | 67.21 | 74.11 | -22.83 | 67.82 | 0.83 | 0.45 | 0.36 | 0.61 | 0.54 | - | OK |
| 38 | 100 | 0 | 40 | 0 | 52.36 | -52.69 | -20.40 | 52.06 | -52.28 | -20.93 | 0.73 | 0.29 | 0.42 | 0.53 | 0.65 | - | OK |
| 39 | 100 | 40 | 0 | 0 | 43.33 | -17.39 | -48.81 | 42.93 | -17.38 | -49.17 | 0.54 | 0.40 | 0.01 | 0.36 | 0.13 | - | OK |
| 40 | 0 | 0 | 0 | 0 | 95.40 | 0.20 | -1.70 | 95.64 | 0.21 | -1.88 | 0.30 | 0.24 | 0.01 | 0.18 | 0.01 | - | OK |
| 41 | 10 | 6 | 6 | 0 | 88.52 | -0.70 | -3.29 | 89.05 | -0.36 | -3.58 | 0.69 | 0.52 | 0.33 | 0.29 | 0.38 | - | OK |
| 42 | 20 | 12 | 12 | 0 | 81.98 | -1.19 | -4.24 | 82.58 | -0.73 | -3.55 | 1.02 | 0.60 | 0.47 | 0.69 | 0.29 | - | OK |
| 43 | 40 | 27 | 27 | 0 | 67.68 | -2.30 | -4.56 | 68.30 | -1.73 | -4.27 | 0.89 | 0.62 | 0.57 | 0.30 | 0.40 | - | OK |
| 44 | 60 | 45 | 45 | 0 | 52.26 | -2.88 | -3.77 | 52.64 | -1.88 | -3.83 | 1.07 | 0.38 | 1.00 | 0.06 | 0.88 | - | OK |
| 45 | 80 | 65 | 65 | 0 | 37.55 | -4.33 | -3.45 | 37.17 | -3.89 | -3.46 | 0.58 | 0.38 | 0.43 | 0.01 | 0.29 | - | OK |
| 46 | 100 | 85 | 85 | 0 | 26.33 | -7.23 | -3.83 | 25.86 | -6.63 | -3.67 | 0.78 | 0.47 | 0.60 | 0.16 | 0.14 | - | OK |

Color space comparison

- Reference
- Measured

Primary colors

- Reference
 - C: L*55.01 a*-37.38 b*-50.11
 - M: L*48.00 a*73.61 b*-3.21
 - Y: L*89.02 a*-5.32 b*92.62
 - K: L*16.04 a*-0.51 b*-0.38
- Measured
 - C: L*54.56 a*-36.62 b*-50.07
 - M: L*48.15 a*72.47 b*-2.45
 - Y: L*89.08 a*-5.00 b*91.86
 - K: L*15.59 a*-0.18 b*-0.36



Gradation Curves

