

Test for the visual linearized output of pictures D1Wdd to D3Wdd

Output test with the computer display ( ) or the external display ( ) please mark by (x)!

**Test of the (flower) image according to picture D1Wdd**

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**  
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":  
.....  
.....  
.....

**Test of the resolution of radial gratings  $W-R_d$ ,  $W-G_d$ ,  $W-B_d$  according to picture D2Wdd**

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

**Test of the 14 CIE-test colours according to picture D3Wdd**

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**  
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

**Test of 16 visual equidistant  $L^*$ -grey steps according to picture D3Wdd**

Are the 16 steps on the upper rows distinguishable? **Yes/No**  
If No: How many steps can be distinguished? of the given 16 steps: **..... Steps**

part 1

AE180-3dd: 010401

**Documentation of file format, hardware and software for this test:**

**PDF file:** [http://farbe.li.tu-berlin.de/AE18/AE18F0NX\\_CYN3\\_1.PDF](http://farbe.li.tu-berlin.de/AE18/AE18F0NX_CYN3_1.PDF) **underline Yes/No**

**PS-File:** [http://farbe.li.tu-berlin.de/AE18/AE18F0NX\\_CYN3\\_1.PS](http://farbe.li.tu-berlin.de/AE18/AE18F0NX_CYN3_1.PS) or **underline Yes/No**

**Used computer operating system:**

either one of Windows/Mac/Unix/other and version:.....

**This evaluation is for the device output:** **underline monitor/data projector/printer**

Device model, driver and version:.....

**Device output with PDF/PS-file:** **underline PDF/PS-file**

**For device output with PDF-file AE18F0NX\_CYN3\_1.PDF**

either PDF-file transfer "download, copy" to PDF device.....  
or with computer system interpretation by "Display-PDF":.....  
or with software. e. g. Adobe-Reader/-Acrobat and version:.....  
or with software e. g. Ghostscript and version:.....

**For device output with PS-file AE18F0NX\_CYN3\_1.PS**

either PS-file transfer "download, copy" to PS device.....  
or with computer system interpretation by "Display-PS":.....  
or with software e. g. Ghostscript and version:.....  
or with software e. g. Mac-Yap and version:.....

Special remarks: Special remarks, e. g. output of Landscape (L)  
.....  
.....

part 3

AE180-7N\*dd-010401

Form A: Test chart AE18 according to test chart 4 of ISO/IEC 15775 input:  $rgb/cmy0/000n/w$  set...  
chromatic test chart RGB output:  $->rgb_{dd}$  setrgbcolor

Test of 16 visually equally spaced steps of the colour rows  $W-R_d$ ,  $W-G_d$ ,  $W-B_d$ , and  $W-N$  according to picture D4Wdd

	Are all the 16 steps distinguishable?	Yes/No
$W-R_d$ White - Red:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-G_d$ White - Green:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-B_d$ White - Blue:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps
$W-N$ White - Black:	Are all the 16 steps distinguishable?	<b>Yes/No</b>
	If No: How many steps can be distinguished? of the given 16 steps	..... Steps

**Test of characters and Landolt-rings in four sizes according to picture D5Wdd**

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring $N$	Ring $R_d$	Ring $G_d$	Ring $B_d$
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

**Test of recognition frequency of Landolt-rings  $W-R_d$ ,  $W-G_d$ ,  $W-B_d$ , and  $W-N$  according to pictures D6Wdd, and D7Wdd**

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$	Colour row $W-G_d$	Colour row $W-B_d$	Colour row $W-N$
background - ring	background - ring	background - ring	background - ring
0 - 1	Yes/No	0 - 1	Yes/No
7 - 8	Yes/No	7 - 8	Yes/No
E - F	Yes/No	E - F	Yes/No
2 - 0	Yes/No	2 - 0	Yes/No
8 - 6	Yes/No	8 - 6	Yes/No
F - D	Yes/No	F - D	Yes/No

part 2

AE181-3Ndd: 010401

**Documentation of assessor colour vision properties for visual assessment**

The assessor has **normal** colour vision according to one test: **underline Yes/No**  
either according to DIN 6160:1996 with Anomaloskop of Nagel **underline Yes/unknown**  
or with test charts using colour points according to Ishihara **underline Yes/unknown**  
or tested with, please specify: ..... **underline Yes/unknown**

**For visual evaluation of the display (monitor, data projector) output**

Office workplace illumination is daylight (clouded/north sky) **underline Yes/No**

**PDF file:** [http://farbe.li.tu-berlin.de/AE18/AE18F0PX\\_CYN3\\_3.PDF](http://farbe.li.tu-berlin.de/AE18/AE18F0PX_CYN3_3.PDF) **underline Yes/No**

**PS file:** [http://farbe.li.tu-berlin.de/AE18/AE18F0PX\\_CYN3\\_3.PS](http://farbe.li.tu-berlin.de/AE18/AE18F0PX_CYN3_3.PS) **underline Yes/No**

**Picture A7dd contrast range:** (>F:0) (F:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)

compare standard print output according to ISO/IEC 15775 with range F:0 **underline range**

Remark: In daylighted offices the contrast range is in many cases:  
on display between: >F:0 and E:0 (monitor), D:0 and 3:0 (data projector)

**Only for optional colorimetric specification with PDF/PS file output**

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**picture A7dd** **underline Yes/No**

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**picture A7dd** **or underline Yes/No**

**colour measurement and specification for:**

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry: **underline Yes/No**

If No, please give other parameters: .....

**Colorimetric specification for 17 step colours of** <http://farbe.li.tu-berlin.de/OE70/OE70L1NP.PDF>

Exchange of CIELAB data in file <http://farbe.li.tu-berlin.de/AE82/AE82L0NP.TXT> and transfer

of the PS file AE82L0NP.PS (= .TXT) to the PDF-file AE82L0NP.PDF **underline Yes/No**

If No, please describe other method: .....

part 4

AE181-7dd: 010401

see similar files: [http://farbe.li.tu-berlin.de/AE18/AE18F0NX\\_CYN3\\_1.PDF](http://farbe.li.tu-berlin.de/AE18/AE18F0NX_CYN3_1.PDF)  
technical information: <http://farbe.li.tu-berlin.de/> or <http://farbe.li.tu-berlin.de/AE18.HTM>

TUB Registration: 20191001-AE18/AE18L0FA.TXT /PS  
application for measurement or viewing of the output on display and print  
TUB material: code=th4ta