

see similar files: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_1.PDF
technical information: <http://farbe.li.tu-berlin.de/> or http://farbe.li.tu-berlin.de/AE49F0PX_CY2_1.PDF

TUB Registration: 20190301-AE49/AE49L0FA.TXT /.PS
application for measurement or viewing of display and print output
TUB material: code=thata4ta



Discriminability of chromatic colours
Remarks: This test uses many colour scales of 9 steps

Hue plane Red - Cyan blue (rows 01 to 09, column b to j)
Discriminability of 81 chromatic colours
Are all the 81 colours different? **Yes/No**
Only in case of "No": How many are different? Of the 81 are different

Hue plane Yellow - Blue (rows 10 to 18, column b to j)
Discriminability of 81 chromatic colours
Are all the 81 colours different? **Yes/No**
Only in case of "No": How many are different? Of the 81 are different

Hue plane Green - Magenta red (rows 19 to 27, column b to j)
Discriminability of 81 chromatic colours
Are all the 81 colours different? **Yes/No**
Only in case of "No": How many are different? Of the 81 are different

Result: Of the 243 (=3x81) colours are different

Artifacts, please describe if visible:
.....
.....

Remarks about the creation and content of the PDF files:
Sometimes "colour smoothing" is a default setting.
In this case the 9 steps are often not visible and may be counted as one step.
Sometimes "optimizing the PDF output for the web" is a default setting.
For example this setting may reduce the 1080 colours on a page to 256 colours.

AE490-71 Part of test chart AE49 with 1080 colours; 9 or 16 step colour scales; data in column (b-n): rgb 1-100110-L0 cmy6*



Agreement with elementary colours
Remarks: This test uses many colour scales of 9 steps
Red R_e and Green G_e are defined by the visual criteria: *neither yellowish nor bluish*.
Yellow Y_e and Blue B_e are defined by the visual criteria: *neither reddish nor greenish*.

Hue plane Red - Cyan blue (rows 01 to 09, column b to j)
Agreement with elementary colours
Is the colour at the position (j,01) the elementary colour Red R_e ? **Yes/No**
Only in case of "No": The colour at this position appears: yellowish/bluish

Hue plane Yellow - Blue B_e (rows 10 to 18, column b to j)
Agreement with elementary colours
Is the colour at the position (j,10) the elementary colour Yellow Y_e ? **Yes/No**
Only in case of "No": The colour at this position appears: reddish/greenish

Is the colour at the position (b,18) the elementary colour Blue B_e ? **Yes/No**
Only in case of "No": The colour at this position appears: reddish/greenish

Hue plane Green - Magenta red (rows 19 to 27, column b to j)
Agreement with elementary colours
Is the colour at the position (j,19) the elementary colour Green G_e ? **Yes/No**
Only in case of "No": The colour at this position appears: yellowish/bluish

Result: Of the 4 elementary colours (e. g. 3) are acceptable as elementary colours.

Discriminability of 9 and 16 grey steps
Discriminability of 9 steps (rows 01 to 09, column k to n)
Are the 9 steps distinguishable? **Yes/No**
If No: How many can be distinguished? of 9 greys are distinguishable.

Discriminability of 16 steps (rows 10 to 27, column k to n)
Are the 16 steps distinguishable? **Yes/No**
If No: How many can be distinguished? of 16 greys are distinguishable.

Artifacts, please describe if visible:
.....
.....

Remarks about the creation and content of the PDF files:
Sometimes "colour smoothing" is a default setting.
In this case the 9 steps are often not visible and may be counted as one step.
Sometimes "optimizing the PDF output for the web" is a default setting.
For example this setting may reduce the 1080 colours on a page to 256 colours.

AE490-71 Part of test chart AE49 with 1080 colours; 9 or 16 step colour scales; data in column (b-n): rgb 1-100110-L0 cmy6*

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

PDF file: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_1.PDF **underline: Yes/No**

PS file: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_1.PS **underline: Yes/No**

Used computer operating system:
either one of Windows/Mac/Unix/other and version:.....

This evaluation is for the output: **underline: monitor/data projector/printer**
Device model, driver and version:.....

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

For output with PDF file AE49F0PX_CY2_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 output with PS file AE49F0PX_CY2_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: e. g. output of Landscape (L)
.....
.....

part 3, AE490-7dd: 01061

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/AE49/AE49F0PX_CY2_3.PDF **underline: Yes/No**

PS file: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_3.PS **underline: Yes/No**

picture A7dd contrast range: (>F:0) (F:0) (E: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: Yes/No**

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

PDF file: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_3.PDF **underline: Yes/No**

PS file: http://farbe.li.tu-berlin.de/AE49/AE49F0PX_CY2_3.PS **underline: Yes/No**

picture A7dd **underline: Yes/No**

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, AE491-7dd: 01061

Form A: Test chart AE49 similar to test chart 1 of DIN 33872-6
1080 standard colours; Test chart similar to DIN 33872-6

input: `rgb/cmy0/000n/w set...`
output: `->rgbdd setrgbcolor`