

see similar files: <http://farbe.li.tu-berlin.de/AE59/AE59.HTM>  
 technical information: <http://farbe.li.tu-berlin.de/> or <http://farbe.li.tu-berlin.de/AE.HTM>

TUB Registration: 20190301-AE59/AE59L0FA.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.

AE590-71 Part of test chart AE59 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** (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

**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.

AE590-71 Part of test chart AE59 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/AE59/AE59F0PX\\_CY8\\_1.PDF](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_1.PDF) **underline: Yes/No**

**PS file:** [http://farbe.li.tu-berlin.de/AE59/AE59F0PX\\_CY8\\_1.PS](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_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 AE59F0PX\_CY8\_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 AE59F0PX\_CY8\_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,

AE590-7dd: 01001

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

The assessor has **normal** colour vision according to one test:  
 either according to DIN 6160:1996 with Anomaloskop of Nagel **underline: Yes/No**  
 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/AE59/AE59F0PX\\_CY8\\_3.PDF](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_3.PDF) **underline: Yes/No**

**PS file:** [http://farbe.li.tu-berlin.de/AE59/AE59F0PX\\_CY8\\_3.PS](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_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/AE59/AE59F0PX\\_CY8\\_3.PDF](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_3.PDF) **underline: Yes/No**

**PS file:** [http://farbe.li.tu-berlin.de/AE59/AE59F0PX\\_CY8\\_3.PS](http://farbe.li.tu-berlin.de/AE59/AE59F0PX_CY8_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,

AE591-7dd: 01001

Form A: Test chart AE59 similar to test chart 1 of DIN 33872-6  
 9x9 scales; 12 hue planes; 16 visual equidistant  $L^*$ -grey steps

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