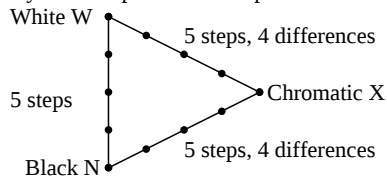


### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
Black N, White W and Chromatic X.  
Ten pages include 10 hue planes  
X = OYLCVM and RJGB.  
There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-130-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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)

.....  
.....  
.....

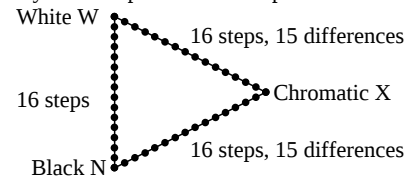
Part 3

OE820-7N-130-10

OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
Discrimination of colour scales (Yes/No decision)

### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
Black N, White W and Chromatic X.  
Ten pages include 10 hue planes  
X = OYLCVM and RJGB.  
There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-130-10

### 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  
or with test charts using colour points according to Ishihara  
or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-130-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-130-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-130-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer  
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

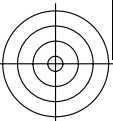
underline Yes/No

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

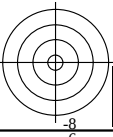
Part 4

OE821-7N-130-10

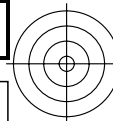
Input:  $rgb (->rgb^*_{de})$  setrgbcolor  
output 130-10:  $g_P=1.0; g_N=1.0$



See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

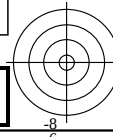


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



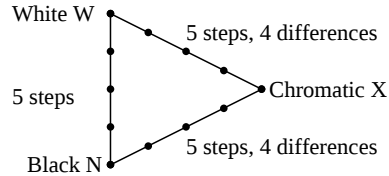
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-131-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-131-10

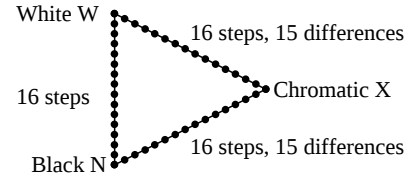


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-131-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-131-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-131-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-131-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De1710L/L17e00NP.PS](http://www.ps.bam.de/De1710L/L17e00NP.PS) and transfer

of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

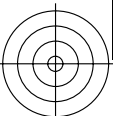
underline Yes/No

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

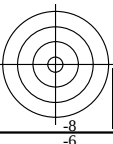
Part 4

OE821-7N-131-10

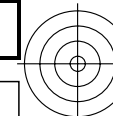




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

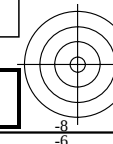


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



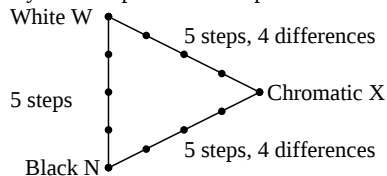
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-132-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-132-10

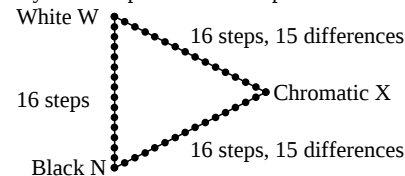


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0$ ;  $g_N=1.17$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-132-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-132-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-132-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-132-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer

of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

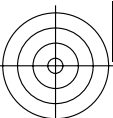
underline Yes/No

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

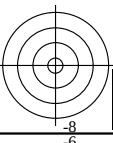
Part 4

OE821-7N-132-10

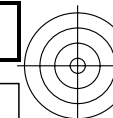




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

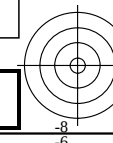


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



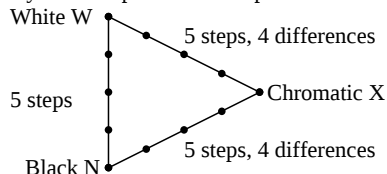
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-133-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-133-10

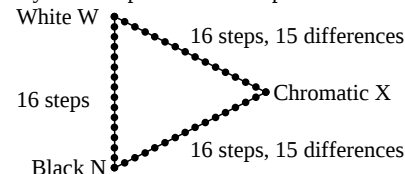


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0; g_N=1.29$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-133-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-133-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-133-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-133-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer  
 of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

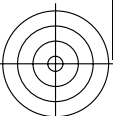
underline Yes/No

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

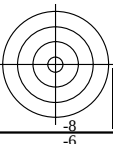
Part 4

OE821-7N-133-10

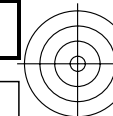




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

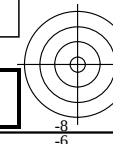


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



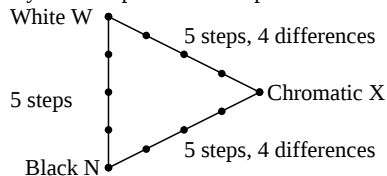
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th44ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-134-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-134-10

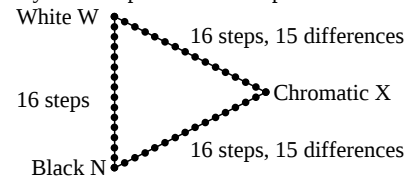


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0; g_N=1.42$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-134-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-134-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-134-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-134-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer

of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

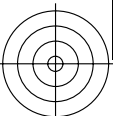
underline Yes/No

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

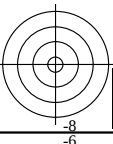
Part 4

OE821-7N-134-10

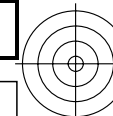




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

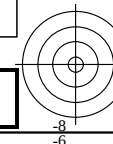


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



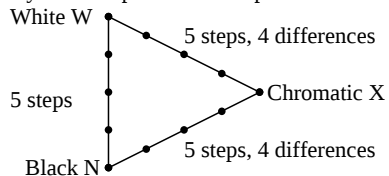
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-135-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-135-10

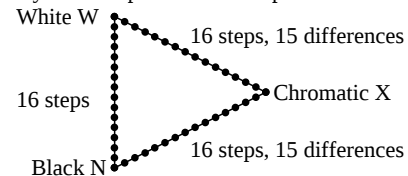


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb \rightarrow rgb_{de}$  setrgbcolor  
 output 130-10:  $g_P=1.0$ ;  $g_N=1.6$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-135-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-135-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-135-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-135-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer  
 of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

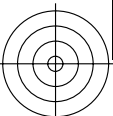
underline Yes/No

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

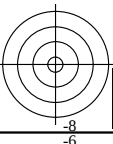
Part 4

OE821-7N-135-10

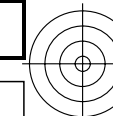




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

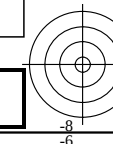


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



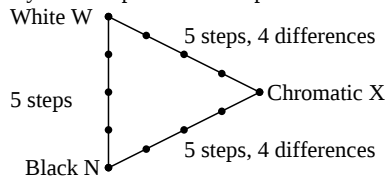
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th44ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-136-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-136-10

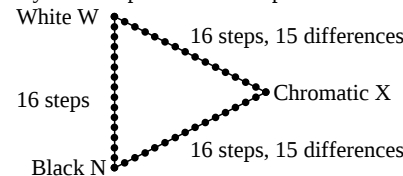


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0; g_N=1.81$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-136-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-136-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-136-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-136-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer

of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

underline Yes/No

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

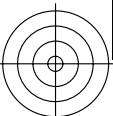
Part 4

OE821-7N-136-10

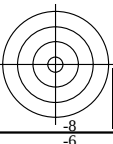


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0; g_N=1.81$

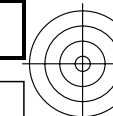




See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

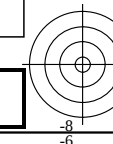


<http://130.149.60.45/~farbmetrik/OE82/OE82L0NA.TXT> /PS; linearized output, Page 11/12  
 F: Output Linearization (OL) data OE82/OE82L0NA.TXT /PS in File (F)



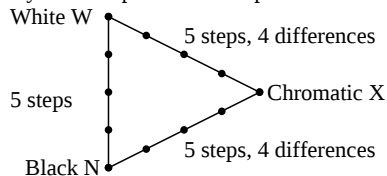
TUB registration: 20110801-OE82/OE82L0NA.TXT /PS  
 application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta



### Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 12 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 5step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 5 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../12 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../12 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../12 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../12 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../12 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../12 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../12 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../12 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../12 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../12 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../120 step differences are distinguishable

Part 1

OE820-3N-137-10

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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82L0NA.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 OE82L0NP.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 OE82L0NA.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

OE820-7N-137-10

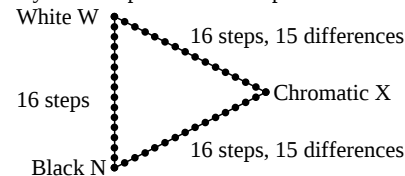


OE82: Form A for test chart 1 according to DIN 33872-2; 1MR, DEH  
 Discrimination of colour scales (Yes/No decision)  
 Input:  $rgb(->rgb_{de})$  setrgbcolor  
 output 130-10:  $g_P=1.0; g_N=2.1$



### Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series



There are three basic colours on each page:  
 Black N, White W and Chromatic X.  
 Ten pages include 10 hue planes  
 X = OYLCVM and RJGB.  
 There are at maximum 45 distinguishable steps.

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No

only in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

- Page 1: Yes/No, if No ../45 step differences are distinguishable of O = Orange Red  
 Page 2: Yes/No, if No ../45 step differences are distinguishable of Y = Yellow  
 Page 3: Yes/No, if No ../45 step differences are distinguishable of L = Leaf green  
 Page 4: Yes/No, if No ../45 step differences are distinguishable of C = Cyan blue  
 Page 5: Yes/No, if No ../45 step differences are distinguishable of V = Violett blue  
 Page 6: Yes/No, if No ../45 step differences are distinguishable of M = Magenta Red  
 Page 7: Yes/No, if No ../45 step differences are distinguishable of R = Elementary Red  
 Page 8: Yes/No, if No ../45 step differences are distinguishable of J = Elementary yellow  
 Page 9: Yes/No, if No ../45 step differences are distinguishable of G = Elementary Green  
 Page 10: Yes/No, if No ../45 step differences are distinguishable of B = Elementary blue

Sum: ../10 Yes-Pages and ../450 step differences are distinguishable

Part 2

OE821-3N-137-10

### 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  
 or with test charts using colour points according to Ishihara  
 or tested with, please specify: .....

underline Yes/No

underline Yes/unknown

underline Yes/unknown

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://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

underline Yes/No

Picture A7-137-2: 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 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

PDF-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PDF>

picture A7-137-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE82/OE82F1P2.PS>

picture A7-137-2

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 with PS file for colours in the columns A to T

Exchange of CIELAB data in file [www.ps.bam.de/De17/10L/L17e00NP.PS](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer

of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF

underline Yes/No

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

Part 4

OE821-7N-137-10

