

| | | |
|--|--------------------------------------|-------------|
| Test for the best visual linearized output of Picture A7-130-0 | | Yes/No |
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-130-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | mm |
| Test of 5 visual equidistant L*-grey steps according to picture A2-130-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 5 steps: | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-130-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 16 steps: | | Steps |

Part 1

OE510-3N-130-1

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

PDF-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF underline Yes/No

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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

OE510-7N-130-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (->rgb*_d)$ setgray
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46 output 130-1: $g_P=1.0$; $g_N=1.0$

| | | |
|--|-------------------|--------------|
| Test for the best visual linearized output of Picture A7-130-0 | | Yes/No |
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-130-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-130-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |
| Test of the radial grating under 90° according to picture A6-130-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |

Part 2

OE511-3N-130-1

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)

PDF file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF

PS file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS

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/OE51/OE51F1P2.PDF

picture A7-130-2

underline Yes/No

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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:

If No, please give other parameters:

underline Yes/No

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 and transfer

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

If No, please describe other method:

underline Yes/No

Part 4

OE511-7N-130-1

Test for the best visual linearized output of Picture A7-131-0 Yes/No
Output test with the computer display () or the external display ()
Test of the radial grating according to picture A1-131-0
N-W-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-N-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
N-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
Test of 5 visual equidistant L*-grey steps according to picture A2-131-0
 Are the 5 steps on the upper rows distinguishable? Yes/No
 If No: How many steps can be distinguished? of the given 5 steps: Steps
Test of 16 visual equidistant L*-grey steps according to picture A3-131-0
 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

OE510-3N-131-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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

OE510-7N-131-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (-> rgb*_d)$ setgray
 Viewing Y contrast $Y_W:Y_N=88,9:0,62$; Y_N range 0,46 to <0,93 output 131-1: $g_P=0,92$; $g_N=1,0$

Test for the best visual linearized output of Picture A7-131-0 Yes/No
Output test with the computer display () or the external display ()
Test of the Landolt-rings N-W according to picture A4-131-0
N-W-radial grating:
 Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)?
 background – ring
 0 – 1 Yes/No
 7 – 8 Yes/No
 E – F Yes/No
 2 – 0 Yes/No
 8 – 6 Yes/No
 F – D Yes/No
Test of the radial grating under 45° according to picture A5-131-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi
Test of the radial grating under 90° according to picture A6-131-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi

Part 2

OE511-3N-131-1

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)

PDF file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF>

PS file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS>

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/OE51/OE51F1P2.PDF>

picture A7-131-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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:

If No, please give other parameters:

underline Yes/No

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 and transfer

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

If No, please describe other method:

underline Yes/No

Part 4

OE511-7N-131-1

Test for the best visual linearized output of Picture A7-132-0 Yes/No
Output test with the computer display () or the external display ()
Test of the radial grating according to picture A1-132-0
N-W-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-N-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
N-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
Test of 5 visual equidistant L*-grey steps according to picture A2-132-0
 Are the 5 steps on the upper rows distinguishable? Yes/No
 If No: How many steps can be distinguished? of the given 5 steps: Steps
Test of 16 visual equidistant L*-grey steps according to picture A3-132-0
 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 OE510-3N-132-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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 OE510-7N-132-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (-> rgb*_d)$ setgray
 Viewing Y contrast $Y_W:Y_N=88,9:1,25$; Y_N range 0,93 to <1,87 output 132-1: $g_P=0,85$; $g_N=1,0$

Test for the best visual linearized output of Picture A7-132-0 Yes/No
Output test with the computer display () or the external display ()
Test of the Landolt-rings N-W according to picture A4-132-0
N-W-radial grating:
 Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)?
 background – ring
 0 – 1 Yes/No
 7 – 8 Yes/No
 E – F Yes/No
 2 – 0 Yes/No
 8 – 6 Yes/No
 F – D Yes/No
Test of the radial grating under 45° according to picture A5-132-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi
Test of the radial grating under 90° according to picture A6-132-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi

Part 2 OE511-3N-132-1

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/OE51/OE51F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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/OE51/OE51F1P2.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS>

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

underline Yes/No

If No, please describe other method:

Part 4

OE511-7N-132-1

| Test for the best visual linearized output of Picture A7-133-0 | | Yes/No |
|--|--------------------------------------|-------------|
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-133-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| Test of 5 visual equidistant L*-grey steps according to picture A2-133-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 5 steps: | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-133-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 16 steps: | | Steps |

Part 1

OE510-3N-133-1

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

PDF-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF underline Yes/No

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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

OE510-7N-133-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (->rgb*_d)$ setgray
Viewing Y contrast $Y_W:Y_N=88,9:2,5$; Y_N range 1,87 to <3,75

| Test for the best visual linearized output of Picture A7-133-0 | | Yes/No |
|--|-------------------|--------------|
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-133-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-133-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |
| Test of the radial grating under 90° according to picture A6-133-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |

Part 2

OE511-3N-133-1

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)

PDF file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF

PS file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS

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

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/OE51/OE51F1P2.PDF

picture A7-133-2

picture A7-133-2

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS

picture A7-133-2

colour measurement and specification for:

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry:

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 and transfer

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

If No, please describe other method:

underline Yes/No

underline Yes/No

underline Yes/No

OE511-7N-133-1

output 133-1: $g_P=0.77$; $g_N=1.0$

| | | |
|--|--------------------------------------|-------------|
| Test for the best visual linearized output of Picture A7-134-0 | | Yes/No |
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-134-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| Test of 5 visual equidistant L*-grey steps according to picture A2-134-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 5 steps: | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-134-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 16 steps: | | Steps |

Part 1 OE510-3N-134-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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 OE510-7N-134-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w \rightarrow rgb_d$ setgray
Viewing Y contrast $Y_W: Y_N=88,9:5$; Y_N range 3,75 to <7,5
output 134-1: $g_P=0.7$; $g_N=1.0$

| | | |
|--|-------------------|--------------|
| Test for the best visual linearized output of Picture A7-134-0 | | Yes/No |
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-134-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-134-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |
| Test of the radial grating under 90° according to picture A6-134-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |

Part 2 OE511-3N-134-1

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://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF> underline Yes/No
PS file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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/OE51/OE51F1P2.PDF> underline Yes/No
picture A7-134-2
PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS> or underline Yes/No
picture A7-134-2

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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF underline Yes/No
If No, please describe other method:

Part 4 OE511-7N-134-1

| Test for the best visual linearized output of Picture A7-135-0 | | Yes/No |
|--|--------------------------------------|-------------|
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-135-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | mm |
| Test of 5 visual equidistant L*-grey steps according to picture A2-135-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 5 steps: | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-135-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 16 steps: | | Steps |

Part 1 OE510-3N-135-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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 OE510-7N-135-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (-> rgb*_d)$ setgray
Viewing Y contrast $Y_W: Y_N=88,9:10$; Y_N range 7,5 to <15
output 135-1: $g_P=0.62$; $g_N=1.0$

| Test for the best visual linearized output of Picture A7-135-0 | | Yes/No |
|--|-------------------|--------|
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-135-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-135-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: to lpi | | |
| Test of the radial grating under 90° according to picture A6-135-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: to lpi | | |

Part 2 OE511-3N-135-1

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://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF> underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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/OE51/OE51F1P2.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS> or underline Yes/No

picture A7-135-2

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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF underline Yes/No
If No, please describe other method:

Part 4 OE511-7N-135-1

| Test for the best visual linearized output of Picture A7-136-0 | | Yes/No |
|--|--------------------------------------|-------------|
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-136-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) | mm |
| | resolution diameter | Yes/No |
| Test of 5 visual equidistant L*-grey steps according to picture A2-136-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 5 steps: | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-136-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| of the given 16 steps: | | Steps |

Part 1

OE510-3N-136-1

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

PDF-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF underline Yes/No

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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

OE510-7N-136-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w \rightarrow rgb_d$ setgray
Viewing Y contrast $Y_W: Y_N=88,9:20$; Y_N range 15 to <30

| Test for the best visual linearized output of Picture A7-136-0 | | Yes/No |
|--|-------------------|--------------|
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-136-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-136-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |
| Test of the radial grating under 90° according to picture A6-136-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |

Part 2

OE511-3N-136-1

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)

PDF file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF

PS file: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS

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

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/OE51/OE51F1P2.PDF

picture A7-136-2

PS-File: http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS

picture A7-136-2

colour measurement and specification for:

CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry:

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 and transfer

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

If No, please describe other method:

underline Yes/No

underline Yes/No

underline Yes/No

underline Yes/No

underline Yes/No

underline Yes/No

OE511-7N-136-1

Part 4

output 136-1: $g_P=0.55$; $g_N=1.0$

Test for the best visual linearized output of Picture A7-137-0 Yes/No
Output test with the computer display () or the external display ()
Test of the radial grating according to picture A1-137-0
N-W-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-N-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
N-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
W-Z-radial grating: Is the resolution diameter < 6 mm? Yes/No
 Test with magnifying glass (e.g. 6x) resolution diameter mm
Test of 5 visual equidistant L*-grey steps according to picture A2-137-0
 Are the 5 steps on the upper rows distinguishable? Yes/No
 If No: How many steps can be distinguished? of the given 5 steps: Steps
Test of 16 visual equidistant L*-grey steps according to picture A3-137-0
 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

OE510-3N-137-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51L0NA.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 OE51L0NP.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 OE51L0NA.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

OE510-7N-137-1

OE51: Form A for test chart according to ISO 9241-306; 1MR, DH input: $w (-> rgb*_d)$ setgray
 Viewing Y contrast $Y_W:Y_N=88,9:40$; Y_N range 30 to <60
 output 137-1: $g_P=0.47$; $g_N=1.0$

Test for the best visual linearized output of Picture A7-137-0 Yes/No
Output test with the computer display () or the external display ()
Test of the Landolt-rings N-W according to picture A4-137-0
N-W-radial grating:
 Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)?
 background – ring
 0 – 1 Yes/No
 7 – 8 Yes/No
 E – F Yes/No
 2 – 0 Yes/No
 8 – 6 Yes/No
 F – D Yes/No
Test of the radial grating under 45° according to picture A5-137-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi
Test of the radial grating under 90° according to picture A6-137-0
 Can equally spaced lines be seen?
 Visual testing: for radial diameter from 15 to 60 lpi Yes/No
 Test with a magnifying glass (e.g. 6x): – from 15 lpi: to lpi

Part 2

OE511-3N-137-1

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)

PDF file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PDF>

PS file: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.PS>

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/OE51/OE51F1P2.PDF>

picture A7-137-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE51/OE51F1P2.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:

If No, please give other parameters:

underline Yes/No

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 and transfer

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

If No, please describe other method:

underline Yes/No

Part 4

OE511-7N-137-1