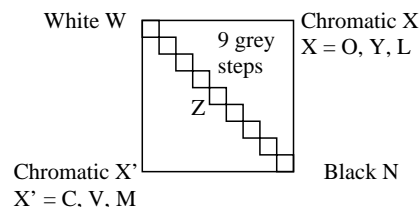


### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.  
The colour steps are  
separate in the upper figure part and  
ajacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for  
separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes  
in one of the following cases; for example see Annex (X):

- Is there a continuous colour change  
for adjacent colours and not for separate colours? underline: Yes/No
- Are there maxima and minima in the colour change  
for adjacent colours and not for separate colours? underline: Yes/No

Remarks:.....

Part 1

OE890-3N-130-1

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

**PDF-File:** <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF> underline Yes/No

**PS-File:** <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

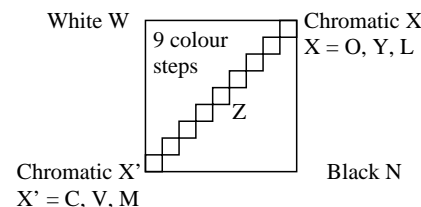
.....  
.....  
.....

Part 3

OE890-7N-130-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.  
The colour steps are separate in the  
upper figure part and ajacent  
ajacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for  
separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes  
in one of the following cases; for example see Annex (X):

- Are there colour jumps at the mean grey colour Z towards X or X'  
for adjacent colours? underline: Yes/No
- Are there colour jumps at the mean grey colour Z towards X or X'  
for separate colours underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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)

underline Yes/No

**PDF file:** <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PDF>

underline Yes/No

**PS file:** <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

underline Yes/No

**picture A7-130-2**

underline Yes/No

**PS-File:** <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PS>

or underline Yes/No

**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

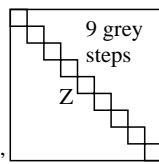
OE891-7N-130-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 130-1:  $g_P=1.0$ ;  $g_N=1.0$

### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are  
separate in the upper figure part and  
ajacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Chromatic X'  
X' = C, V, M

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for  
separate and adjacent colours.

Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Is there a continuous colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-131-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

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

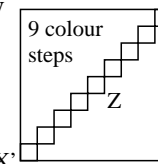
Part 3

OE890-7N-131-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are separate in the  
upper figure part and ajacent  
ajacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Chromatic X'  
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for  
separate and adjacent colours without large chromatic jumps at mean grey Z

Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X'  
for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X'  
for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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)

underline Yes/No

PDF file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-131-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/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

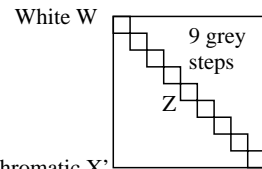
OE891-7N-131-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH  
Equivalent and regular colour spacing (Yes/No-decision)

input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
output 131-1:  $g_P=0.92$ ;  $g_N=1.0$

### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes in one of the following cases; for example see Annex (X):

Is there a continuous colour change for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-132-1

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

**PDF-File:** http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF underline Yes/No

**PS-File:** http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

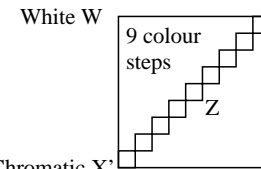
.....  
.....  
.....

Part 3

OE890-7N-132-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X' for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X' for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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

underline Yes/No

or with test charts using colour points according to Ishihara

underline Yes/unknown

or tested with, please specify: .....

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/OE89/OE89F1P2.PDF

underline Yes/No

**PS file:** http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF

**picture A7-132-2**

underline Yes/No

**PS-File:** http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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 and transfer

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

underline Yes/No

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

Part 4

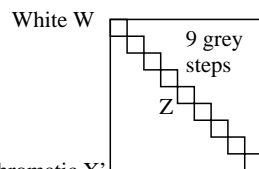
OE891-7N-132-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 132-1:  $g_P=0.85$ ;  $g_N=1.0$



### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes in one of the following cases; for example see Annex (X):

Is there a continuous colour change for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-133-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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:.....

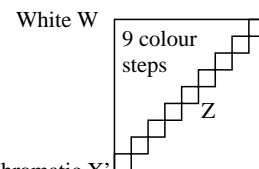
Special remarks:Special remarks, e. g. output of Landscape (L)

Part 3

OE890-7N-133-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Chromatic X'  
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X' for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X' for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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)

underline Yes/No

PDF file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-133-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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: .....

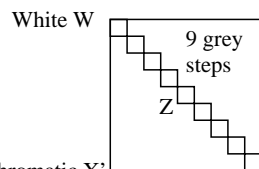
Part 4

OE891-7N-133-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 133-1:  $g_P=0.77$ ;  $g_N=1.0$

### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes in one of the following cases; for example see Annex (X):

Is there a continuous colour change for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-134-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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:.....

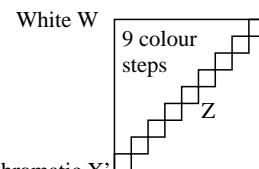
Special remarks:Special remarks, e. g. output of Landscape (L)

Part 3

OE890-7N-134-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps



Chromatic X  
X = O, Y, L

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Chromatic X'  
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X' for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X' for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-134-1

### 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/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-134-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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

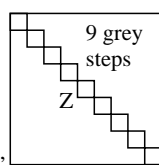
OE891-7N-134-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 134-1:  $g_P=0.7$ ;  $g_N=1.0$

### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are  
separate in the upper figure part and  
ajacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Chromatic X'  
X' = C, V, M

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for  
separate and adjacent colours.

Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Is there a continuous colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-135-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

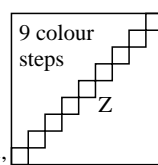
Part 3

OE890-7N-135-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are separate in the  
upper figure part and ajacent  
ajacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Chromatic X'  
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for  
separate and adjacent colours without large chromatic jumps at mean grey Z

Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X'  
for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X'  
for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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

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/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-135-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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

OE891-7N-135-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH  
Equivalent and regular colour spacing (Yes/No-decision)

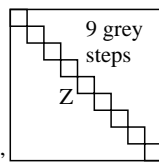
input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
output 135-1:  $g_P=0.62$ ;  $g_N=1.0$



### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are  
separate in the upper figure part and  
ajacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

Chromatic X'  
X' = C, V, M

Black N

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for  
separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Is there a continuous colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change  
for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-136-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

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

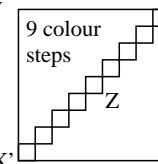
Part 3

OE890-7N-136-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps

White W



Chromatic X  
X = O, Y, L

There are three opposite hue planes  
O-C, Y-V, and L-M.

The colour steps are separate in the  
upper figure part and ajacent  
ajacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

Chromatic X'  
X' = C, V, M

Black N

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for  
separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes  
in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X'  
for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X'  
for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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)

underline Yes/No

PDF file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-136-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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: .....

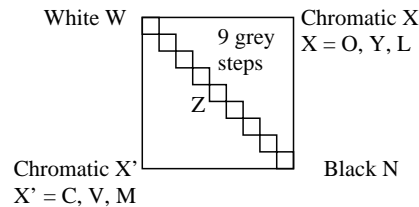
Part 4

OE891-7N-136-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 136-1:  $g_P=0.55$ ;  $g_N=1.0$

### Equivalent spacing for separate and adjacent colours (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 grey steps



Chromatic X  
X = O, Y, L

Black N

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between N and W there are 9 grey steps.  
Mean grey Z is the mean step of N-W.

All the stepings of the three hue planes O-L, Y-V and L-M should be equivalent for separate and adjacent colours.

#### Is the spacing equivalent for separate and adjacent colours?

underline: Yes/No

Remark: The spacing is not equivalent if there is at least one Yes in one of the following cases; for example see Annex (X):

Is there a continuous colour change for adjacent colours and not for separate colours?

underline: Yes/No

Are there maxima and minima in the colour change for adjacent colours and not for separate colours?

underline: Yes/No

Remarks:.....

Part 1

OE890-3N-137-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89L0NA.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 OE89L0NP.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 OE89L0NA.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)

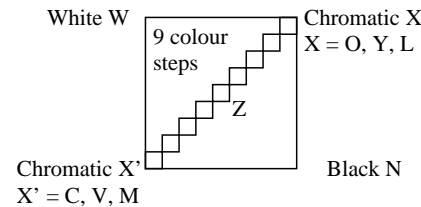
.....  
.....  
.....

Part 3

OE890-7N-137-1

### Regular colour spacing between colours Z-X' and Z-X (Yes/No decision)

Layout example: hue plane O-C, Y-V oder L-M mit 9 colour steps



Chromatic X  
X = O, Y, L

Black N

There are three opposite hue planes O-C, Y-V, and L-M.  
The colour steps are separate in the upper figure part and adjacent in the lower figure part.  
Between X' and X there are 9 colour steps.  
Mean grey Z is the mean step of X'-X.

All colour steps of the three hue planes O-L, Y-V and L-M should be regular for separate and adjacent colours without large chromatic jumps at mean grey Z

#### Is the colour spacing regular at mean grey Z?

underline: Yes/No

Remark: The colour spacing is not regular if there is at least one Yes in one of the following cases; for example see Annex (X):

Are there colour jumps at the mean grey colour Z towards X or X' for adjacent colours?

underline: Yes/No

Are there colour jumps at the mean grey colour Z towards X or X' for separate colours

underline: Yes/No

Remarks: A colour jump has at least twice the colour change compared to the mean change.

Part 2

OE891-3N-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)

underline Yes/No

PDF file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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/OE89/OE89F1P2.PDF>

picture A7-137-2

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE89/OE89F1P2.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

OE891-7N-137-1

OE89: Form A test chart 2 according to DIN 33872-6; 1MR, DEH input:  $cmy_0$  ( $\rightarrow cmy_0^*_{de}$ ) setcmyk  
Equivalent and regular colour spacing (Yes/No-decision) output 137-1:  $g_P=0.47$ ;  $g_N=1.0$