

Test for the visual linearized output of Pictures D1W-130-0 to D7W-130-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-130-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-130-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-130-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-130-0

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

OE680-3N-130-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-130-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.0$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-130-0

Colour row	Test	Are all the 16 steps distinguishable?	of the given 16 steps	Yes/No
$W-R_d$	White - Orangered:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-G_d$	White - Leafgreen:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-B_d$	White - Violetblue:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-N$	White - Black:	Are all the 16 steps distinguishable?	..... Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-130-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-130-0, and D7W-130-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	0 - 1	0 - 1	0 - 1
7 - 8	7 - 8	7 - 8	7 - 8
E - F	E - F	E - F	E - F
2 - 0	2 - 0	2 - 0	2 - 0
8 - 6	8 - 6	8 - 6	8 - 6
F - D	F - D	F - D	F - D

Part 2

OE681-3N-130-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.PS> **underline Yes/No**

Picture A7-130-2: contrast range: (>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/OE68/OE68F1N2.PDF>

picture A7-130-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-130-1

Test for the visual linearized output of Pictures D1W-131-0 to D7W-131-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-131-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-131-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-131-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-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

OE680-3N-138-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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)

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.....
.....

Part 3

OE680-7N-131-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.08$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-131-0

Colour row	Test	Are all the 16 steps distinguishable?	Yes/No
$W-R_d$ White - Orangered:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-G_d$ White - Leafgreen:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-B_d$ White - Violetblue:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-N$ White - Black:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-131-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-131-0, and D7W-131-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	0 - 1	0 - 1	0 - 1
7 - 8	7 - 8	7 - 8	7 - 8
E - F	E - F	E - F	E - F
2 - 0	2 - 0	2 - 0	2 - 0
8 - 6	8 - 6	8 - 6	8 - 6
F - D	F - D	F - D	F - D

Part 2

OE681-3N-138-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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/OE68/OE68F1N2.PDF>

picture A7-131-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-131-1

Test for the visual linearized output of Pictures D1W-132-0 to D7W-132-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-132-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-132-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-132-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-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

OE680-3N-1316-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-132-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.17$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-132-0

Colour row	Test	Are all the 16 steps distinguishable?	of the given 16 steps	Yes/No
$W-R_d$	White - Orangered:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-G_d$	White - Leafgreen:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-B_d$	White - Violetblue:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-N$	White - Black:	Are all the 16 steps distinguishable?	..... Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-132-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-132-0, and D7W-132-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	Yes/No	Yes/No	Yes/No
7 - 8	Yes/No	Yes/No	Yes/No
E - F	Yes/No	Yes/No	Yes/No
2 - 0	Yes/No	Yes/No	Yes/No
8 - 6	Yes/No	Yes/No	Yes/No
F - D	Yes/No	Yes/No	Yes/No

Part 2

OE681-3N-1316-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.PS> **underline Yes/No**

Picture A7-132-2: contrast range: (>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/OE68/OE68F1N2.PDF>

picture A7-132-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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

OE681-7N-132-1

Test for the visual linearized output of Pictures D1W-133-0 to D7W-133-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-133-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-133-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-133-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-133-0

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

OE680-3N-1324-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-133-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb \rightarrow rgb^*_{de}$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.29$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-133-0

Colour row	Test	Are all the 16 steps distinguishable?	of the given 16 steps	Yes/No
$W-R_d$	White - Orangered:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-G_d$	White - Leafgreen:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-B_d$	White - Violetblue:	Are all the 16 steps distinguishable?	..... Steps	Yes/No
$W-N$	White - Black:	Are all the 16 steps distinguishable?	..... Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-133-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-133-0, and D7W-133-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	0 - 1	0 - 1	0 - 1
7 - 8	7 - 8	7 - 8	7 - 8
E - F	E - F	E - F	E - F
2 - 0	2 - 0	2 - 0	2 - 0
8 - 6	8 - 6	8 - 6	8 - 6
F - D	F - D	F - D	F - D

Part 2

OE681-3N-1324-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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/OE68/OE68F1N2.PDF>

picture A7-133-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-133-1

Test for the visual linearized output of Pictures D1W-134-0 to D7W-134-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-134-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-134-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-134-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-134-0

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

OE680-3N-1332-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-134-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb \rightarrow rgb^*_{de}$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_p=1.0$; $g_N=1.42$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-134-0

Colour row	Test	Are all the 16 steps distinguishable?	Yes/No
$W-R_d$ White - Orangered:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-G_d$ White - Leafgreen:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-B_d$ White - Violetblue:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No
$W-N$ White - Black:	If No: How many steps can be distinguished? of the given 16 steps	..... Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-134-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-134-0, and D7W-134-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	0 - 1	0 - 1	0 - 1
7 - 8	7 - 8	7 - 8	7 - 8
E - F	E - F	E - F	E - F
2 - 0	2 - 0	2 - 0	2 - 0
8 - 6	8 - 6	8 - 6	8 - 6
F - D	F - D	F - D	F - D

Part 2

OE681-3N-1332-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.PS> **underline Yes/No**

Picture A7-134-2: contrast range: (>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/OE68/OE68F1N2.PDF>

picture A7-134-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-134-1

Test for the visual linearized output of Pictures D1W-135-0 to D7W-135-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-135-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-135-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-135-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-135-0

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

OE680-3N-1340-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-135-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.6$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-135-0

Colour row	Test	Are all the 16 steps distinguishable?	of the given 16 steps	Yes/No
$W-R_d$ White - Orangered:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-G_d$ White - Leafgreen:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-B_d$ White - Violetblue:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-N$ White - Black:	If No: How many steps can be distinguished?	.....	Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-135-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-135-0, and D7W-135-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1	0 - 1	0 - 1	0 - 1
7 - 8	7 - 8	7 - 8	7 - 8
E - F	E - F	E - F	E - F
2 - 0	2 - 0	2 - 0	2 - 0
8 - 6	8 - 6	8 - 6	8 - 6
F - D	F - D	F - D	F - D

Part 2

OE681-3N-1340-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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/OE68/OE68F1N2.PDF>

picture A7-135-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-135-1

Test for the visual linearized output of Pictures D1W-136-0 to D7W-136-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-136-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-136-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-136-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture D3W-136-0

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

OE680-3N-1348-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-136-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_P=1.0$; $g_N=1.81$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-136-0

Colour row	Test	Are all the 16 steps distinguishable?	of the given 16 steps	Yes/No
$W-R_d$ White - Orangered:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-G_d$ White - Leafgreen:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-B_d$ White - Violetblue:	If No: How many steps can be distinguished?	.....	Steps	Yes/No
$W-N$ White - Black:	If No: How many steps can be distinguished?	.....	Steps	Yes/No

Test of characters and Landolt-rings in four sizes according to picture D5W-136-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-136-0, and D7W-136-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1 Yes/No	0 - 1 Yes/No	0 - 1 Yes/No	0 - 1 Yes/No
7 - 8 Yes/No	7 - 8 Yes/No	7 - 8 Yes/No	7 - 8 Yes/No
E - F Yes/No	E - F Yes/No	E - F Yes/No	E - F Yes/No
2 - 0 Yes/No	2 - 0 Yes/No	2 - 0 Yes/No	2 - 0 Yes/No
8 - 6 Yes/No	8 - 6 Yes/No	8 - 6 Yes/No	8 - 6 Yes/No
F - D Yes/No	F - D Yes/No	F - D Yes/No	F - D Yes/No

Part 2

OE681-3N-1348-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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/OE68/OE68F1N2.PDF>

picture A7-136-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-136-1

Test for the visual linearized output of Pictures D1W-137-0 to D7W-137-0

Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture D1W-137-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":
.....
.....
.....

Test of the resolution of radial gratings $W-R_d$, $W-G_d$, $W-B_d$ according to picture D2W-137-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter:	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W-137-0

Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
If Yes: How many colours have clear differences? of the given 14 steps: Steps

Test of 16 visual equidistant L^* -grey steps according to picture D3W-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

OE680-3N-1356-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68L0NA.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 OE68L0NP.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 OE68L0NA.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

OE680-7N-137-1

OE68: Form A for test chart 4 according to ISO 15775; 1MR, DEH input: $rgb(->rgb^*_{de})$ setrgbcolor
Image, radial gratings, 16 step colour scales, Landolt-rings output 130-1: $g_p=1.0$; $g_N=2.1$

Test of 16 visually equally spaced steps of the colour rows $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to picture D4W-137-0

	$W-R_d$ White - Orangered:	$W-G_d$ White - Leafgreen:	$W-B_d$ White - Violetblue:	$W-N$ White - Black:
Are all the 16 steps distinguishable?	Yes/No	Yes/No	Yes/No	Yes/No
If No: How many steps can be distinguished? of the given 16 steps	..... Steps	..... Steps	..... Steps	..... Steps

Test of characters and Landolt-rings in four sizes according to picture D5W-137-0

Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring R_d	Ring G_d	Ring B_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-R_d$, $W-G_d$, $W-B_d$, and $W-N$ according to pictures D6W-137-0, and D7W-137-0

Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-R_d$ background - ring	Colour row $W-G_d$ background - ring	Colour row $W-B_d$ background - ring	Colour row $W-N$ background - ring
0 - 1 Yes/No	0 - 1 Yes/No	0 - 1 Yes/No	0 - 1 Yes/No
7 - 8 Yes/No	7 - 8 Yes/No	7 - 8 Yes/No	7 - 8 Yes/No
E - F Yes/No	E - F Yes/No	E - F Yes/No	E - F Yes/No
2 - 0 Yes/No	2 - 0 Yes/No	2 - 0 Yes/No	2 - 0 Yes/No
8 - 6 Yes/No	8 - 6 Yes/No	8 - 6 Yes/No	8 - 6 Yes/No
F - D Yes/No	F - D Yes/No	F - D Yes/No	F - D Yes/No

Part 2

OE681-3N-1356-1

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/OE68/OE68F1N2.PDF> **underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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/OE68/OE68F1N2.PDF>

picture A7-137-2 **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE68/OE68F1N2.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 and transfer

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

underline Yes/No

If No, please describe other method:

Part 4

OE681-7N-137-1