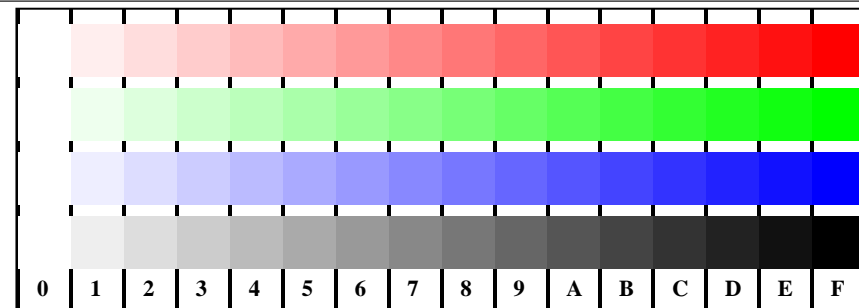


Radial grating W-Re Radial grating W-Ge Radial grating W-Be Radial grating W-N Radial grating W-Z  
OE690-5, Picture D2W-030-0: Radial gratings W-Re; W-Ge; W-Be; W-N; PS operator ->rgb\_e setrgbcolor

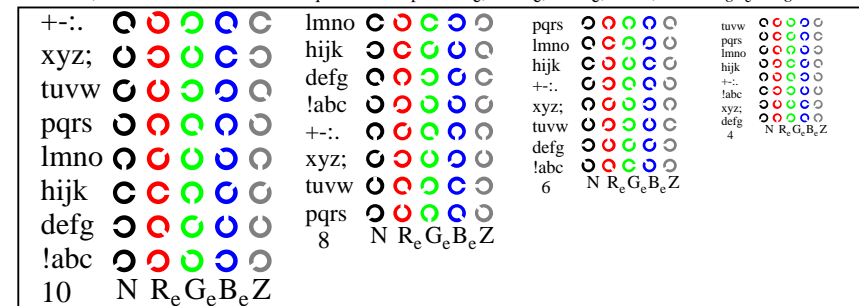


OE690-7, Picture D3W-030-0: 14 CIE-test colours and 2 + 16 grey steps; PS operator ->rgb\_e setrgbcolor

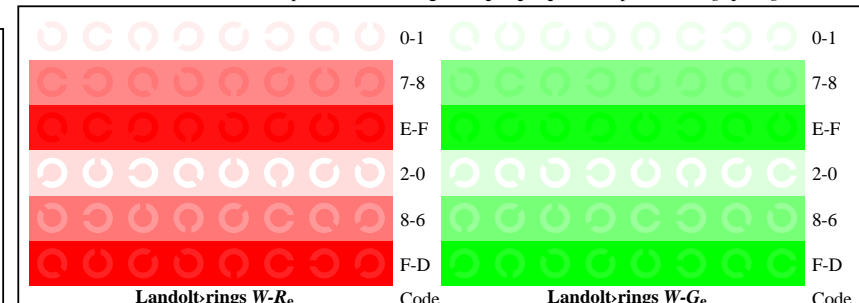
OE69: Test chart 4 according to ISO 15775, TR 24705; DH  
Radial gratings, 16 step colour scales, Landolt-rings



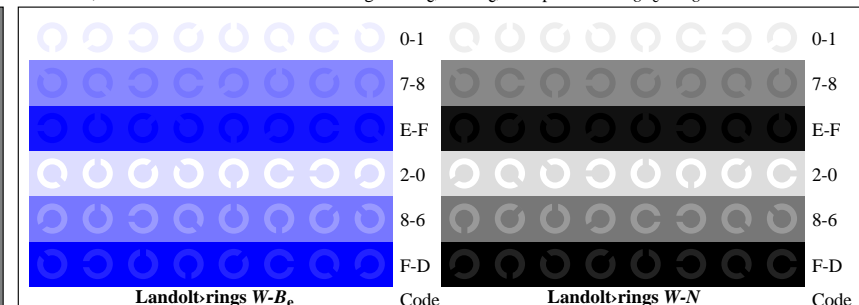
OE691-1, Picture D4W-L-030-0: 16 equidistant steps W-Re; W-Ge; W-Be; W-N; PS: ->rgb\_e setrgbcolor



OE691-3, Picture D5W-030-0: Script and Landolt-rings N; Re; Ge; Be; Z; PS operator ->rgb\_e setrgbcolor



OE691-5, Picture D6W-L-030-0: Landolt-rings W-Re; W-Ge; PS operator ->rgb\_e setrgbcolor



OE691-7, Picture D7W-L-030-0: Landolt-rings W-Be; W-N; PS operator ->rgb\_e setrgbcolor

input: rgb (->rgb\*\_d) setrgbcolor  
output 030-0: no change

Test for the visual linearized output of Pictures D2W-030-0 to D7W-030-0

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

Test of the resolution of radial gratings  $W-R_d$ ,  $W-G_d$ ,  $W-B_d$  according to picture D2W-030-0

	$W-R_d$	$W-G_d$	$W-B_d$	$W-N$	$W-Z$
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-030-0

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-030-0

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

OE690-3N-030-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE69/OE69L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE69/OE69L0NA.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 OE69L0NP.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 OE69L0NA.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

OE690-7N-030-1

OE69: Form A for test chart 4 according to ISO/IEC 15775; DH  
Radial gratings, 16 step colour scales, Landolt-rings

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-030-0

	$W-R_d$ 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-030-0

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-030-0, and D7W-030-0

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 1

OE690-3N-030-1

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/OE69/OE69F1P2.PDF>

**underline Yes/No**

PS file: <http://130.149.60.45/farbmetrik/OE69/OE69F1P2.PS>

**underline Yes/No**

Picture A7-030-2: 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/OE69/OE69F1P2.PDF>

picture A7-030-2

**underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE69/OE69F1P2.PS>

picture A7-030-2

**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

OE691-7N-030-1

input:  $rgb$  ( $\rightarrow rgb^*_d$ )  $setrgbcolor$   
output 030-1: no change

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

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*
1	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.07	6.36	0.01
3	12.72	0.0	0.13	12.72	0.01
4	19.08	0.0	0.2	19.08	0.01
5	25.44	0.0	0.27	25.44	0.01
6	31.8	0.0	0.33	31.8	0.01
7	38.16	0.0	0.4	38.16	0.01
8	44.52	0.0	0.47	44.52	0.01
9	50.89	0.0	0.53	50.89	0.01
10	57.25	0.0	0.6	57.25	0.01
11	63.61	0.0	0.67	63.61	0.01
12	69.97	0.0	0.73	69.97	0.01
13	76.33	0.0	0.8	76.33	0.01
14	82.69	0.0	0.87	82.69	0.01
15	89.05	0.0	0.93	89.05	0.01
16	95.41	0.0	1.0	95.41	0.01
17	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.25	23.85	0.01
19	47.71	0.0	0.5	47.71	0.01
20	71.56	0.0	0.75	71.56	0.01
21	95.41	0.0	1.0	95.41	0.01

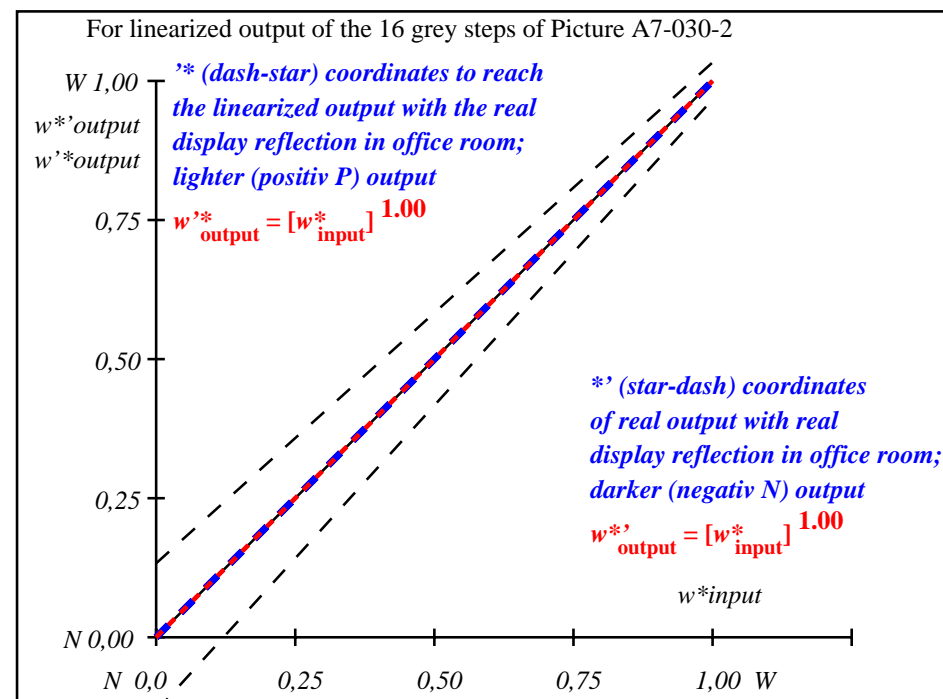
Start output S1  
Specification according to  
ISO/IEC 15775 Annex G  
and DIN 33866-1 Annex G

Mean lightness difference (16 steps)  
 $\Delta E^*_{\text{CIELAB}} = 0.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{\text{CIELAB}} = 0.0$

Mean colour reproduction index:  
 $R^*_{\text{ab,m}} = 100$

OE690-3N-030-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE691-3N-030-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{\text{intended}}$ (absolute)	0.0/0.0	6.4/0.7	12.7/1.5	19.1/2.8	25.4/4.6	31.8/7.0	38.2/10.2	44.5/14.2	50.9/19.2	57.2/25.2	63.6/32.3	70.0/40.7	76.3/50.4	82.7/61.6	89.0/74.3	95.4/88.6
$w^* w^* w^*$ setrgb gp=1.00 No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*=I^*_{\text{CIELAB},r}$ (relative)																
$w^*_{\text{intended}}$	0.000	0.067	0.133	0.200	0.267	0.333	0.400	0.467	0.533	0.600	0.667	0.733	0.800	0.867	0.933	1.000
$w^*_{\text{out}}$	0.0	0.067	0.133	0.2	0.267	0.333	0.4	0.467	0.533	0.6	0.667	0.733	0.8	0.867	0.933	1.0

OE690-7N, Picture A7-030-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

OE69: In-output relation according to ISO 9241-306; DH  
Viewing  $Y$  contrast  $Y_W:Y_N=88,9:0,31$ ;  $Y_N$  range 0,0 to <0,46

input:  $rgb (->rgb^*_d)$  setrgbcolor  
output 030-2: no change