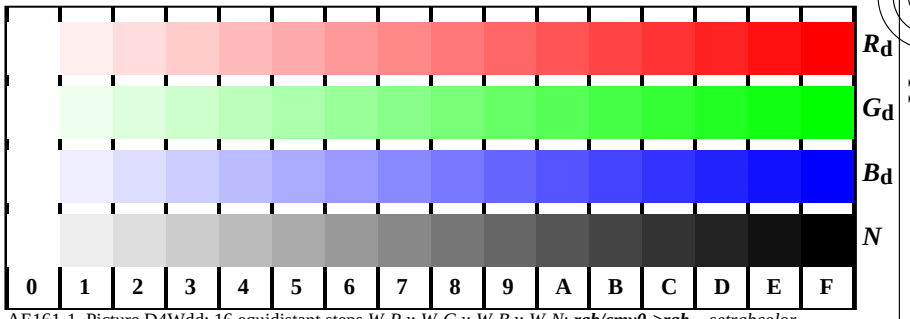
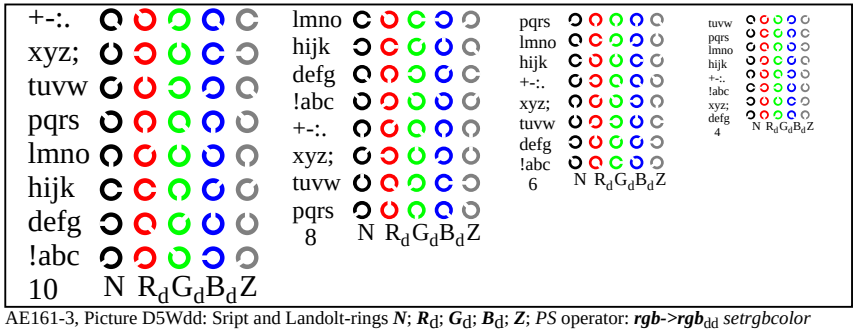
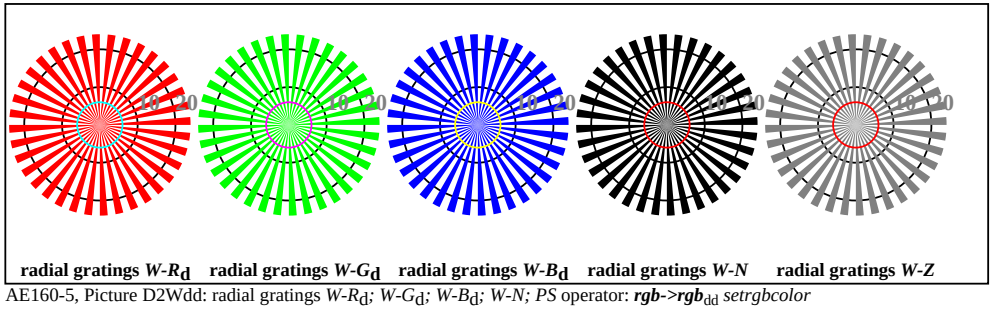


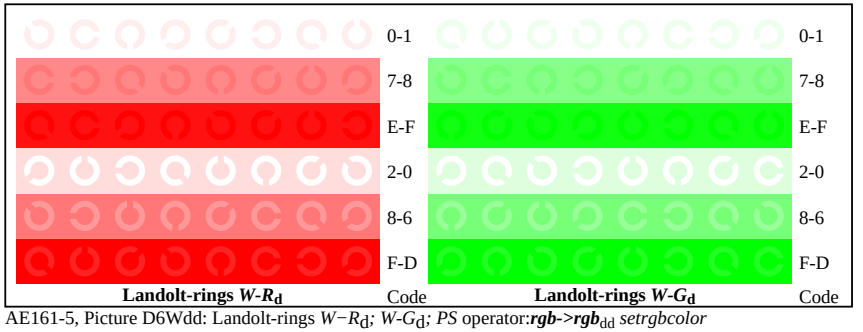
AE161-1, Picture D4Wdd: 16 equidistant steps *W-R*$_d$; *W-G*$_d$; *W-B*$_d$; *W-N*; ***rgb/cmy0->rgb***$_{dd}$ *setrgbcolor*



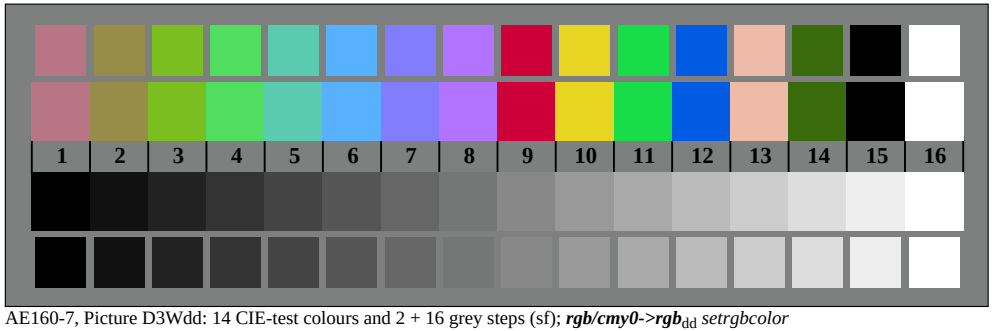
AE161-3, Picture D5Wdd: Sript and Landolt-rings ***N***; ***R***$_d$; ***G***$_d$; ***B***$_d$; ***Z***; *PS* operator: ***rgb->rgb***$_{dd}$ *setrgbcolor*



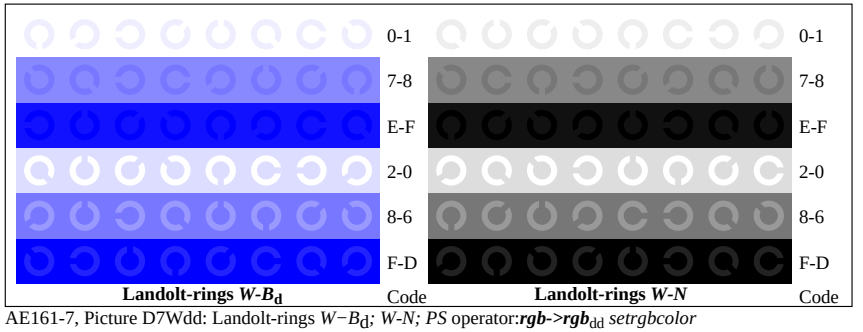
AE160-5, Picture D2Wdd: radial gratings *W-R*$_d$; *W-G*$_d$; *W-B*$_d$; *W-N*; *PS* operator: ***rgb->rgb***$_{dd}$ *setrgbcolor*



AE161-5, Picture D6Wdd: Landolt-rings *W−R*$_d$; *W-G*$_d$; *PS* operator:***rgb->rgb***$_{dd}$ *setrgbcolor*



AE160-7, Picture D3Wdd: 14 CIE-test colours and 2 + 16 grey steps (sf); ***rgb/cmy0->rgb***$_{dd}$ *setrgbcolor*



AE161-7, Picture D7Wdd: Landolt-rings *W−B*$_d$; *W-N*; *PS* operator:***rgb->rgb***$_{dd}$ *setrgbcolor*

Test of visual linearized output of pictures D2W$_{dd}$ to D3W$_{dd}$ please underline **Yes/No**

Output test with 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$_{dd}$

	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 (e.g. 6x) resolution diameter	..... mm	..... mm	..... mm	..... mm	..... mm

Test of the 14 CIE-test colours according to picture D3W$_{dd}$

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$_{dd}$**

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, AE160-3dd: 00301

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$_{dd}$

***W-R*$_d$**	Are all the 16 steps distinguishable?		**Yes/No**
White - Red:	If No: How many steps can be distinguished?	of the given 16 steps:	**..... Steps**
***W-G*$_d$**	Are all the 16 steps distinguishable?		**Yes/No**
White - Green:	If No: How many steps can be distinguished?	of the given 16 steps:	**..... Steps**
***W-B*$_d$**	Are all the 16 steps distinguishable?		**Yes/No**
White - Blue:	If No: How many steps can be distinguished?	of the given 16 steps:	**..... Steps**
W-N	Are all the 16 steps distinguishable?		**Yes/No**
White - Black:	If No: How many steps can be distinguished?	of the given 16 steps:	**..... Steps**

Test of characters and Landolt-rings in four sizes according to picture D5W$_{dd}$

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

Relative size	Letters	Rings *N*	Rings *R*$_d$	Rings *G*$_d$	Rings *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 the recognition frequency of the Landolt rings *W-R*$_d$, *W-G*$_d$, *W-B*$_d$, and *W-N* according to picture D6W$_{dd}$, and D7W$_{dd}$

Is the recognition frequency of the Landolt rings > 50% (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, AE161-3Ndd: 00301

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

PDF file:
http://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_1.PDF **underline: Yes/No**

PS file:
http://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_1.PS **underline: Yes/No**

Used computer operating system:
either one of Windows/Mac/Unix/other and version:.....

This evaluation is for the output: underline: monitor/data projector/printer
Device model, driver and version:.....

output with PDF/PS-file: underline: PDF/PS file

For output with PDF file AE16F0PX_CY8_1.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 output with PS file AE16F0PX_CY8_1.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: e. g. output of Landscape (L)
.....
.....
.....

part 3, AE160-7dd: 00301

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://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_3.PDF **underline: Yes/No**

PS file: http://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_3.PS **underline: Yes/No**

picture A7$_{dd}$ 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: Yes/No**
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://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_3.PDF
picture A7$_{dd}$ **underline: Yes/No**

PS file: http://farbe.li.tu-berlin.de/AE16/AE16F0PX_CY8_3.PS
picture A7$_{dd}$ **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 for 17 step colours of http://farbe.li.tu-berlin.de/OE70/OE70L1NP.PDF
Exchange of CIELAB data in file http://farbe.li.tu-berlin.de/AE82/AE82L0NP.TXT and transfer
of the PS file AE82L0NP.PS (=.TXT) to the PDF-file AE82L0NP.PDF **underline: Yes/No**
If No, please describe other method: .....

part 4, AE161-7dd: 00301

i	LAB^*_{ref}			l^*_{out}	LAB^*_{out}			$LAB^*_{out\text{-}ref}$			ΔE^*
1	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,01
2	6,36	0,00	0,00	0,06	6,36	0,00	0,00	0,00	0,00	0,00	0,01
3	12,72	0,00	0,00	0,13	12,72	0,00	0,00	0,00	0,00	0,00	0,01
4	19,08	0,00	0,00	0,20	19,08	0,00	0,00	0,00	0,00	0,00	0,01
5	25,44	0,00	0,00	0,26	25,44	0,00	0,00	0,00	0,00	0,00	0,01
6	31,80	0,00	0,00	0,33	31,80	0,00	0,00	0,00	0,00	0,00	0,01
7	38,16	0,00	0,00	0,40	38,16	0,00	0,00	0,00	0,00	0,00	0,01
8	44,52	0,00	0,00	0,46	44,52	0,00	0,00	0,00	0,00	0,00	0,01
9	50,88	0,00	0,00	0,53	50,88	0,00	0,00	0,00	0,00	0,00	0,01
10	57,24	0,00	0,00	0,60	57,24	0,00	0,00	0,00	0,00	0,00	0,01
11	63,60	0,00	0,00	0,66	63,60	0,00	0,00	0,00	0,00	0,00	0,01
12	69,96	0,00	0,00	0,73	69,96	0,00	0,00	0,00	0,00	0,00	0,01
13	76,32	0,00	0,00	0,80	76,32	0,00	0,00	0,00	0,00	0,00	0,01
14	82,68	0,00	0,00	0,86	82,68	0,00	0,00	0,00	0,00	0,00	0,01
15	89,04	0,00	0,00	0,93	89,04	0,00	0,00	0,00	0,00	0,00	0,01
16	95,41	0,00	0,00	1,00	95,41	0,00	0,00	0,00	0,00	0,00	0,01
17	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,01
18	23,85	0,00	0,00	0,25	23,85	0,00	0,00	0,00	0,00	0,00	0,01
19	47,70	0,00	0,00	0,50	47,70	0,00	0,00	0,00	0,00	0,00	0,01
20	71,55	0,00	0,00	0,75	71,55	0,00	0,00	0,00	0,00	0,00	0,01
21	95,41	0,00	0,00	1,00	95,41	0,00	0,00	0,00	0,00	0,00	0,01

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

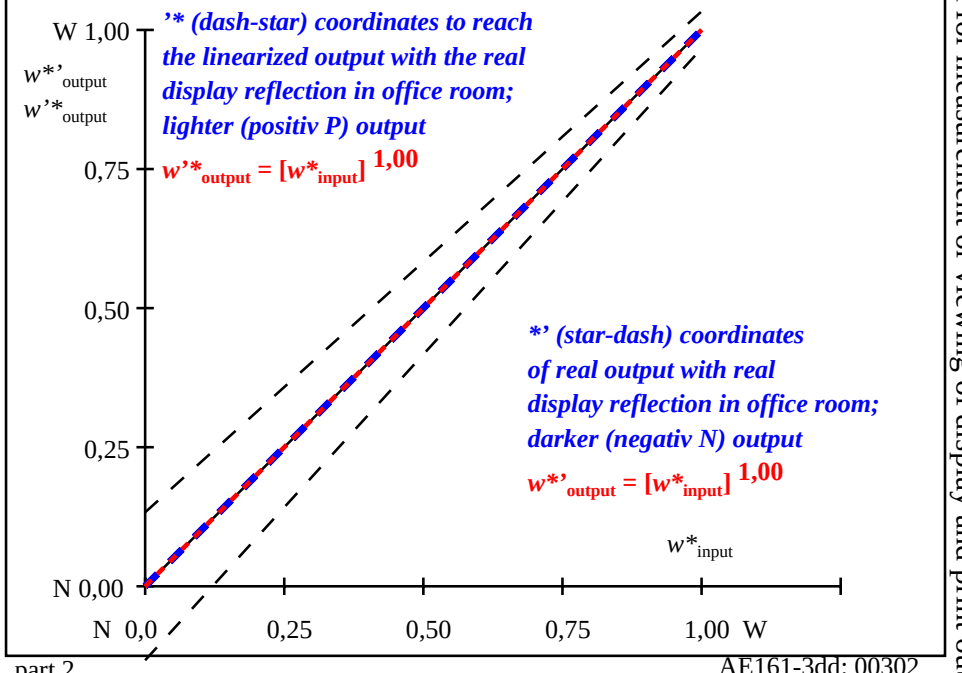
Mean lightness difference (16 steps)
ΔE^*_{CIELAB} = 0,0

Mean lightness difference (5 steps)
ΔL^*_{CIELAB} = 0,0

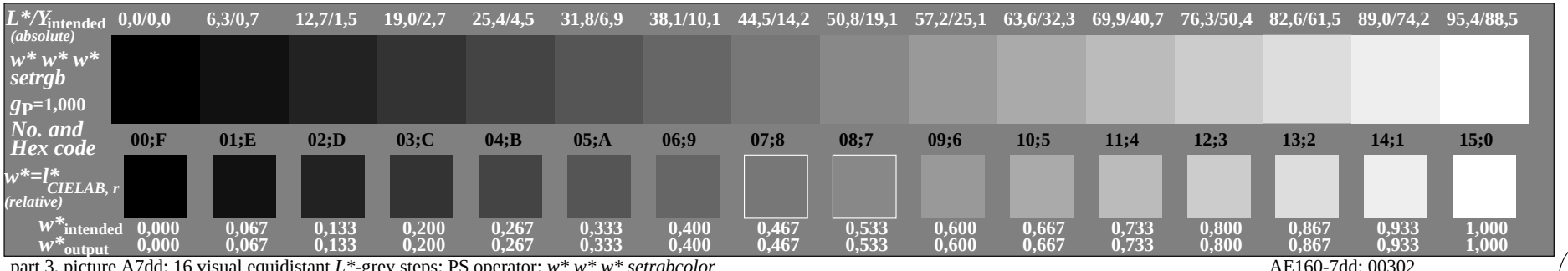
Mean colour reproduction index: $R^*_{ab,m}$ = 99,9

part 1, AE160-3dd: 00302

For linearized output of the 16 grey steps of Picture $A7_{dd}$



part 2, AE161-3dd: 00302



part 3, picture A7dd: 16 visual equidistant L^*-grey steps; PS operator: *w* w* w* setrgbcolor* AE160-7dd: 00302

In-out: Test chart AE16 according to test chart 4 of ISO/IEC 15775 input: *rgb/cmy0/000n/w set...*
Viewing Y contrast Y_W:Y_N=88,9:0,31; Y_N-range 0,0 to <0,46 output: *->rgb_{dd} setrgbcolor*