

voir fichiers similaires: <http://farbe.li.tu-berlin.de/AF88/AF88.HTM>
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

basic and mixed colors of standard color television by DIN 6169					
basic color or mixed color and name	CIE standard chromaticity		CIE standard tristimulus value		
	x	y	X	Y	Z
three additive basic colors and White:					
O = R _d Orange red	0,6400	0,3300	43,03	22,19	2,02
L = G _d Leaf green	0,2900	0,6000	34,16	70,68	12,96
V = B _d Violet blue	0,1415	0,0482	17,82	7,13	93,87
W White	0,3127	0,3291	95,01	100,00	108,85
three additive basic colors and White:					
O = R _d Orange red	0,6400	0,3300	43,03+21%	22,19+21%	2,02+21%
L = G _d Leaf green	0,2900	0,6000	34,16+21%	70,68+21%	12,96+21%
V = B _d Violet blue	0,1415	0,0482	17,82+21%	7,13+21%	93,87+21%
W White	0,3127	0,3291	95,01+0%	100,00+0%	108,85+0%

Assumption: Display of 142+30 cd/m² (=+21% compared to office standard)
rgb input data for Red and no internal display change *l**: 1,0 0,0 0,0 = 1,0 0,0 0,0
rgb input data for D65 and internal 10%-change of *l**: 1,0 1,0 1,0 -> 0,9 0,9 0,9
Result: The office luminance 142 cd/m² for 500 lux on White paper is matched.
 CIELAB lightness *L** and chroma *C**_{ab} of Red is 10% higher for the LED display.

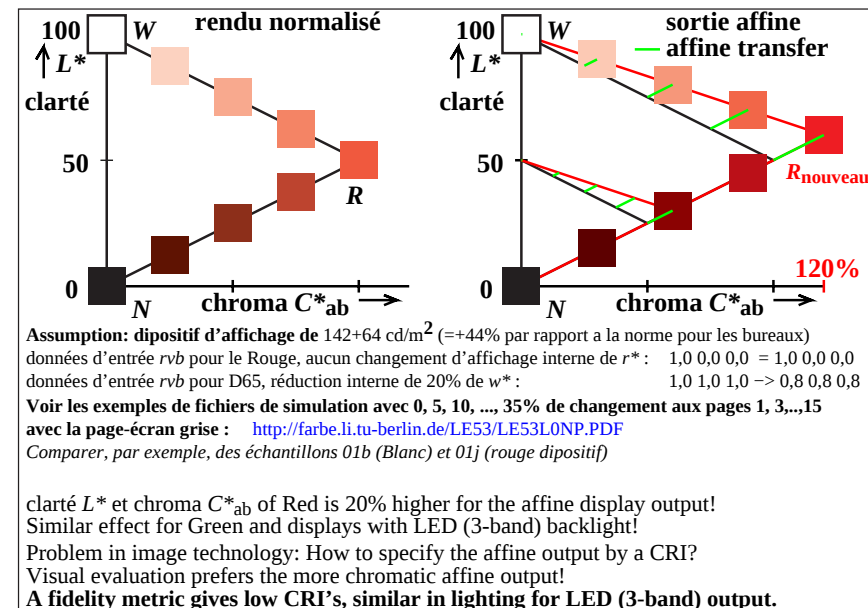
AF880-3N

basic and mixed colors of standard color television by DIN 6169					
basic color or mixed color and name	CIE standard chromaticity		CIE standard tristimulus value		
	x	y	X	Y	Z
three additive basic colors and White:					
O = R _d Orange red	0,6400	0,3300	43,03+44%	22,19+44%	2,02+44%
L = G _d Leaf green	0,2900	0,6000	34,16+44%	70,68+44%	12,96+44%
V = B _d Violet blue	0,1415	0,0482	17,82+44%	7,13+44%	93,87+44%
W White	0,3127	0,3291	95,01+0%	100,00+0%	108,85+0%

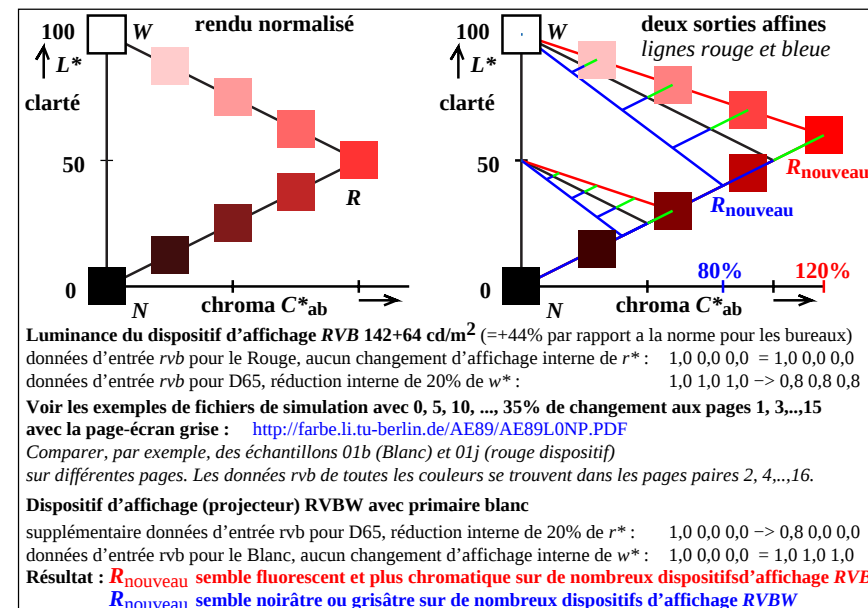
Assumption: Display of 142+64 cd/m² (=+44% compared to office standard)
rgb input data for Red and no internal display change *l**: 1,0 0,0 0,0 = 1,0 0,0 0,0
rgb input data for D65 and internal 20%-change of *l**: 1,0 1,0 1,0 -> 0,8 0,8 0,8
See example simulation files with 0, 5, 10, ..., 35% change on 8 pages and white frame: <http://farbe.li.tu-berlin.de/LE52/LE52L0NP.PDF>
grey frame: <http://farbe.li.tu-berlin.de/LE53/LE53L0NP.PDF>
 Compare for example samples 01b (White) and 01j (Orange red) on different pages
Result: Lightness *L** and chroma *C**_{ab} of Red is 20% higher for the LED display.
 relative brilliance *i** = *l** + 0,5 *c** of Red is 30% higher for the LED display.
 relative blackness *n** = 1 - *i** of Red is 30% lower for the LED display.

AF880-7N

graphique AF88; Blackish and luminous colours
change of tristimulus values XYZ and *rgb* data of displays



AF881-3N



AF881-7N

entrée: *w/rgb/cmyk* -> *rgb*_d
sortie: aucun changement

TUB enregistrement: 20160501-AF88/AF88L0NP.PDF /.PS
application pour la mesure de sortie sur écran

TUB matériel: code=rha4ta