

### basic and mixed colors of standard color television by DIN 6169

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

2  
rgb l\*: 1,0 0,0 0,0 = 1,0 0,0 0,0  
2  
rgb l\*: 1,0 1,0 1,0 -> 0,9 0,9 0,9  
L\* C\*<sub>ab</sub>

AN880-3N

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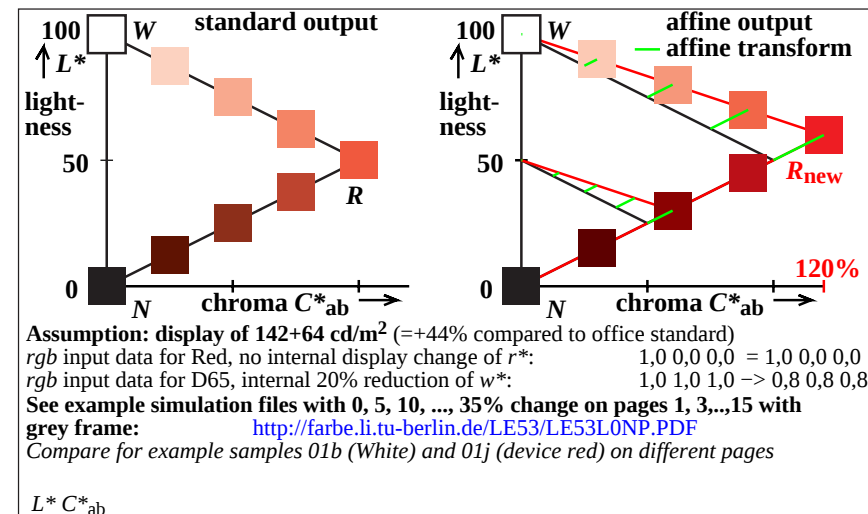
| basic color or mixed color and name           | CIE standard chromaticity x | CIE standard chromaticity y | CIE standard tristimulus value X | CIE standard tristimulus value Y | CIE standard tristimulus value Z |
|-----------------------------------------------|-----------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------------|
| <i>three additive basic colors and White:</i> |                             |                             |                                  |                                  |                                  |
| O = R <sub>d</sub> Orange red                 | 0,6400                      | 0,3300                      | 43,03+44%                        | 22,19+44%                        | 2,02+44%                         |
| L = G <sub>d</sub> Leaf green                 | 0,2900                      | 0,6000                      | 34,16+44%                        | 70,68+44%                        | 12,96+44%                        |
| V = B <sub>d</sub> 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%                        |

2  
rgb l\*: 1,0 0,0 0,0 = 1,0 0,0 0,0  
2  
rgb l\*: 1,0 1,0 1,0 -> 0,8 0,8 0,8  
L\* C\*<sub>ab</sub>

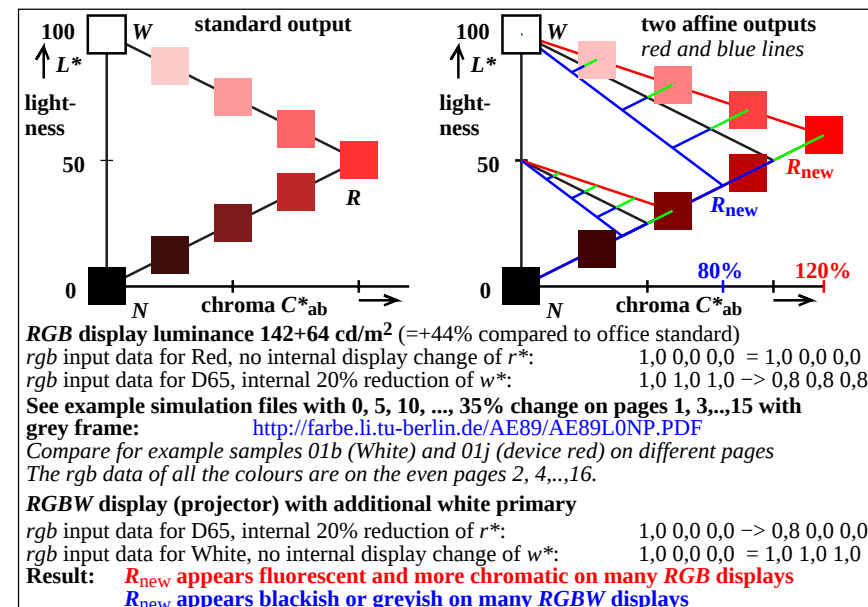
$i^* = l^* + 0,5 c^*$   
 $n^* = 1 - i^*$

AN880-7N

test chart AN88; Blackish and luminous colours  
change of tristimulus values XYZ and rgb data of displays



AN881-3N



AN881-7N

input: w/rgb/cmyk -> rgb<sub>d</sub>  
output: no change compared