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TUB registration: 20230801-fen9/fen910na.txt / ps
 application for evaluation and measurement of display or print output
 TUB material: code=rh4ta

| Basic television colour or mixture colour for D65 CIE data for $Y_{D0}=88,6$ | chromaticity | | tristimulus values ($Y_{D0}=88,60$ for D65) | | | Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_{D0}=88,60$ for D65) | | | | | Standard data $YA_2B_2C_{AB2}h_{AB2}$ $B_c=0,8$ ($Y_{WD0}=88,60$ for white D65) | | | | |
|--|--------------|-------|---|--------|--------|---|--------|---------|------------|----------|---|--------|--------|-----------|-----------|
| | x | y | X | Y | Z | L^* | a^* | b^* | C^*_{ab} | h_{ab} | Y_{D0} | A_2 | B_2 | C_{AB2} | h_{AB2} |
| <i>three additive mixture colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i> | | | | | | | | | | | | | | | |
| C_{D0} Cyan (cyan blue) | 0,224 | 0,328 | 47,67 | 69,76 | 94,78 | 86,88 | -46,18 | -13,57 | 48,13 | 199 | 69,76 | -46,62 | -15,04 | 48,99 | 197 |
| M_{D0} Magenta (magenta red) | 0,320 | 0,154 | 52,52 | 25,23 | 85,93 | 57,30 | 94,34 | -58,43 | 110,97 | 324 | 25,23 | 47,42 | -46,76 | 66,60 | 315 |
| Y_{D0} Yellow | 0,419 | 0,505 | 68,21 | 82,20 | 12,27 | 92,66 | -20,72 | 90,74 | 93,08 | 110 | 82,20 | -0,81 | 61,80 | 61,80 | 90 |
| <i>three additive basic colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i> | | | | | | | | | | | | | | | |
| R_{D0} Red (orange red) | 0,640 | 0,330 | 36,53 | 18,83 | 1,71 | 50,49 | 76,91 | 64,54 | 100,40 | 19 | 18,83 | 46,61 | 15,04 | 48,98 | 17 |
| G_{D0} Green (leaf green) | 0,300 | 0,600 | 31,68 | 63,36 | 10,56 | 83,63 | -82,78 | 79,89 | 115,04 | 144 | 63,36 | -47,43 | 46,75 | 66,60 | 135 |
| B_{D0} Blue (violet blue) | 0,150 | 0,060 | 15,99 | 6,39 | 84,22 | 30,39 | 76,06 | -103,59 | 128,52 | 290 | 6,39 | 0,80 | -61,80 | 61,81 | 270 |
| achromatic colours and equations: $a_{20} = 1,0; b_{20} = -0,4; x_c = 0,110; B_c = 0,8; A_{2d} = 2,5[a_{2d} - a_{2n}]Y_{d0}; B_{2d} = 2,5B_c[b_{2d} - b_{2n}]Y_{d0}; C_{AB2,d} = [A_{2d}^2 + B_{2d}^2]^{1/2}; h_{AB2,d} = \text{atan}[B_{2d} / A_{2d}]$ $a_n = (x_w - x_c) / y_w; b_n = -0,4[z_w / y_w]; a_d = (x_d - x_c) / y_d; b_d = -0,4[z_d / y_d]; z_d = 1 - x_d - y_d$ compare CIE 230:2019 | | | | | | | | | | | | | | | |
| W_{P1} (white monitor, 100%) | 0,312 | 0,329 | 95,05 | 100,00 | 108,90 | 100,00 | 0,00 | 0,00 | 0,00 | 0 | 100,00 | 0,00 | 0,00 | 0,00 | 0 |
| W_{D0} (white monitor, 88,6%) | 0,312 | 0,329 | 84,21 | 88,60 | 96,48 | 95,41 | 0,00 | 0,00 | 0,00 | 0 | 88,60 | 0,00 | 0,00 | 0,00 | 0 |
| N_{d0} (black monitor, 2,5%) | 0,312 | 0,329 | 2,37 | 2,50 | 2,72 | 17,91 | 0,00 | 0,00 | 0,00 | 0 | 2,50 | 0,00 | 0,00 | 0,00 | 0 |
| N_{p1} (black monitor, 1,8%) | 0,312 | 0,329 | 1,71 | 1,80 | 1,96 | 14,40 | 0,00 | 0,00 | 0,00 | 0 | 1,80 | 0,00 | 0,00 | 0,00 | 0 |

| Basic television colour or mixture colour for D65 CIE data for $Y_{D0}=88,6$ | chromaticity | | tristimulus values ($Y_{D0}=88,60$ for D65) | | | Standard CIELAB data $L^*a^*b^*C^*_{ab}h_{ab}$ ($L^*_{D0}=88,60$ for D65) | | | | | Standard data $YA_2B_2C_{AB2}h_{AB2}$ $B_c=0,8$ ($Y_{WD0}=88,60$ for white D65) | | | | |
|--|--------------|-------|---|--------|--------|---|---------|---------|------------|----------|---|--------|--------|-----------|-----------|
| | x | y | X | Y | Z | L^* | a^* | b^* | C^*_{ab} | h_{ab} | Y_{D0} | A_2 | B_2 | C_{AB2} | h_{AB2} |
| <i>three additive mixture colours: television colours according to ITU-R BT.2100-2 and Wide Colour Gamut WCGa display according to ISO 22028-5, Table 1</i> | | | | | | | | | | | | | | | |
| C_{D0} Cyan (cyan blue) | 0,146 | 0,344 | 27,77 | 65,32 | 96,48 | 84,65 | -102,04 | -18,55 | 103,71 | 194 | 65,32 | -83,31 | -20,27 | 85,74 | 193 |
| M_{D0} Magenta (magenta red) | 0,368 | 0,147 | 71,39 | 28,52 | 94,00 | 60,36 | 125,35 | -58,76 | 138,44 | 333 | 28,52 | 81,21 | -50,34 | 95,55 | 328 |
| Y_{D0} Yellow | 0,446 | 0,537 | 69,24 | 83,34 | 2,48 | 93,16 | -20,63 | 131,47 | 133,08 | 107 | 83,34 | 2,09 | 70,62 | 70,65 | 88 |
| <i>three additive basic colours: television colours according to ITU-R BT.2100-2 and Wide Colour Gamut WCGa display according to ISO 22028-5, Table 1</i> | | | | | | | | | | | | | | | |
| R_{D0} Red (orange red) | 0,708 | 0,292 | 56,43 | 23,27 | 0,00 | 55,35 | 112,67 | 95,43 | 147,66 | 14 | 23,27 | 83,31 | 20,27 | 85,74 | 13 |
| G_{D0} Green (leaf green) | 0,170 | 0,797 | 12,81 | 60,07 | 2,48 | 81,87 | -165,51 | 112,00 | 199,84 | 153 | 60,07 | -81,21 | 50,34 | 95,55 | 148 |
| B_{D0} Blue (violet blue) | 0,131 | 0,046 | 14,96 | 5,25 | 94,00 | 27,44 | 82,70 | -115,52 | 142,07 | 287 | 5,25 | -2,09 | -70,62 | 70,65 | 268 |
| achromatic colours and equations: $a_{20} = 1,0; b_{20} = -0,4; x_c = 0,110; B_c = 0,8; A_{2d} = 2,5[a_{2d} - a_{2n}]Y_{d0}; B_{2d} = 2,5B_c[b_{2d} - b_{2n}]Y_{d0}; C_{AB2,d} = [A_{2d}^2 + B_{2d}^2]^{1/2}; h_{AB2,d} = \text{atan}[B_{2d} / A_{2d}]$ $a_n = (x_w - x_c) / y_w; b_n = -0,4[z_w / y_w]; a_d = (x_d - x_c) / y_d; b_d = -0,4[z_d / y_d]; z_d = 1 - x_d - y_d$ compare CIE 230:2019 | | | | | | | | | | | | | | | |
| W_{P1} (white monitor, 100%) | 0,312 | 0,329 | 95,05 | 100,00 | 108,90 | 100,00 | 0,00 | 0,00 | 0,00 | 0 | 100,00 | 0,00 | 0,00 | 0,00 | 0 |
| W_{D0} (white monitor, 88,6%) | 0,312 | 0,329 | 84,21 | 88,60 | 96,48 | 95,41 | 0,00 | 0,00 | 0,00 | 0 | 88,60 | 0,00 | 0,00 | 0,00 | 0 |
| N_{d0} (black monitor, 2,5%) | 0,312 | 0,329 | 2,37 | 2,50 | 2,72 | 17,91 | 0,00 | 0,00 | 0,00 | 0 | 2,50 | 0,00 | 0,00 | 0,00 | 0 |
| N_{p1} (black monitor, 1,8%) | 0,312 | 0,329 | 1,71 | 1,80 | 1,96 | 14,40 | 0,00 | 0,00 | 0,00 | 0 | 1,80 | 0,00 | 0,00 | 0,00 | 0 |