

Input: Colorimetric Television Luminous System TL500a

with  $rgb_0$  data of the  
four elementary hues

(1 0 0)<sub>0</sub> = Red  $R_0$

(1 1 0)<sub>0</sub> = Yellow  $Y_0$

(0 1 0)<sub>0</sub> = Green  $G_0$

(0 0 1)<sub>0</sub> = Blue  $B_0$



The  $rgb_0$  data are calculated for output in  
standard offset according to ISO/IEC 15775

| TL500a adapted (a) CIECAM data |         |         |            |         |            |         |
|--------------------------------|---------|---------|------------|---------|------------|---------|
| $L^*=L^*_0$                    | $a^*_0$ | $b^*_0$ | $C^*_{M0}$ | $h^*_0$ | $C^*_{M0}$ | $h^*_0$ |
| $R_{00}$                       | 50.5    | 76.92   | 64.35      | 100.42  | 60         |         |
| $Y_{00}$                       | 92.65   | -20.69  | 90.75      | 93.08   | 103        |         |
| $G_{00}$                       | 83.63   | -82.75  | 79.9       | 115.84  | 136        |         |
| $C_{00}$                       | 86.88   | -66.16  | -13.55     | 48.12   | 196        |         |
| $B_{00}$                       | 30.39   | 76.05   | -103.59    | 128.52  | 206        |         |
| $M_{00}$                       | 57.3    | 94.35   | -58.41     | 110.97  | 128        |         |
| $N_{00}$                       | 0.01    | 0.0     | 0.0        | 0.0     | 0          |         |
| $W_{00}$                       | 95.41   | 0.0     | 0.0        | 0.0     | 0          |         |
| $C_{000}$                      | 39.92   | 58.74   | 27.99      | 65.87   | 25         |         |
| $L_{000}$                      | 81.26   | -2.88   | 71.56      | 71.62   | 92         |         |
| $C_{000}$                      | 52.23   | -82.41  | 13.6       | 44.55   | 162        |         |
| $h_{000}$                      | 30.57   | 1.41    | -65.45     | 65.45   | 272        |         |

Output: Colorimetric Television Luminous System TL500a

with hue number

$n=01$  to  $16$

01 = Red  $R_0$

05 = Yellow  $Y_0$

09 = Green  $G_0$

13 = Blue  $B_0$

with hue position

(row and column)

of test chart ISO 5241-300:AE49



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