

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 |       |        |         |        |       |       |       |
|--------------------------------|-------|--------|---------|--------|-------|-------|-------|
| $L^*$                          | $a^*$ | $b^*$  | $C^*$   | $h^*$  | $L^*$ | $a^*$ | $b^*$ |
| $R_{00}$                       | 50.5  | 76.92  | 64.55   | 100.42 | 00    |       |       |
| $Y_{00}$                       | 92.65 | -20.69 | 90.75   | 93.08  | 100   |       |       |
| $G_{00}$                       | 83.63 | -82.75 | 79.9    | 115.84 | 190   |       |       |
| $C_{00}$                       | 86.88 | -46.16 | -13.55  | 48.12  | 196   |       |       |
| $B_{00}$                       | 30.39 | 76.05  | -103.59 | 128.52 | 306   |       |       |
| $M_{00}$                       | 57.3  | 94.35  | -58.41  | 110.97 | 328   |       |       |
| $N_{00}$                       | 0.01  | 0.0    | 0.0     | 0.0    | 0     |       |       |
| $W_{00}$                       | 95.41 | 0.0    | 0.0     | 0.0    | 0     |       |       |
| $S_{00}$                       | 39.92 | 58.74  | 27.99   | 65.87  | 25    |       |       |
| $L_{00}$                       | 81.26 | -2.88  | 71.56   | 71.62  | 90    |       |       |
| $C_{00}$                       | 52.23 | -82.41 | 13.6    | 44.55  | 162   |       |       |
| $h_{00}$                       | 30.57 | 1.41   | -65.45  | 65.45  | 273   |       |       |

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 5241-306:AEF49



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| $R_{00}$                       | 50.5  | 76.92  | 64.55   | 100.42 | 00    |       |       |
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| $M_{00}$                       | 57.3  | 94.35  | -58.41  | 110.97 | 328   |       |       |
| $N_{00}$                       | 0.01  | 0.0    | 0.0     | 0.0    | 0     |       |       |
| $W_{00}$                       | 95.41 | 0.0    | 0.0     | 0.0    | 0     |       |       |
| $S_{00}$                       | 39.92 | 58.74  | 27.99   | 65.87  | 25    |       |       |
| $L_{00}$                       | 81.26 | -2.88  | 71.56   | 71.62  | 90    |       |       |
| $C_{00}$                       | 52.23 | -82.41 | 13.6    | 44.55  | 162   |       |       |
| $h_{00}$                       | 30.57 | 1.41   | -65.45  | 65.45  | 273   |       |       |

