

Input: Colorimetric Television Luminous System TL500a

with  $xyh_d$  data of the four elementary hues  
 $(1\ 0\ 0)_d$  = Red  $R_d$   
 $(1\ 1\ 0)_d$  = Yellow  $Y_d$   
 $(0\ 1\ 0)_d$  = Green  $G_d$   
 $(0\ 0\ 1)_d$  = Blue  $B_d$



| TL500a adapted (q) CIE1931 data |       |        |            |            |       |       |
|---------------------------------|-------|--------|------------|------------|-------|-------|
| $L^*$                           | $a^*$ | $b^*$  | $C^*_{90}$ | $h^*_{90}$ | $L^*$ | $a^*$ |
| $R_{400}$                       | 50.5  | 76.92  | 64.55      | 109.42     | 49    |       |
| $R_{450}$                       | 92.66 | -20.69 | 90.75      | 93.08      | 103   |       |
| $R_{500}$                       | 83.63 | -82.75 | 79.9       | 115.84     | 136   |       |
| $R_{550}$                       | 66.88 | -46.16 | -13.55     | 48.12      | 196   |       |
| $R_{600}$                       | 30.39 | 76.06  | -103.59    | 128.52     | 206   |       |
| $R_{650}$                       | 57.3  | 94.75  | -58.41     | 110.97     | 228   |       |
| $R_{700}$                       | 0.01  | 0.0    | 0.0        | 0.0        | 0     |       |
| $R_{750}$                       | 95.41 | 0.0    | 0.0        | 0.0        | 0     |       |
| $R_{800}$                       | 29.92 | 58.74  | 27.99      | 65.87      | 25    |       |
| $L_{c20}$                       | 81.26 | -2.89  | 71.56      | 71.62      | 92    |       |
| $L_{c50}$                       | 52.23 | -42.41 | 13.6       | 44.55      | 162   |       |
| $L_{c90}$                       | 30.57 | 1.41   | -45.45     | 45.45      | 227   |       |

Output: Colorimetric Television Luminous System TL500a

with hue number

$n = 01$  to  $16$

01 = Red  $R_d$

05 = Yellow  $Y_d$

09 = Green  $G_d$

13 = Blue  $B_d$

with hue position

(row and column)

of test chart ISO 5241-300:AEF9



| TL500a adapted (q) CIE1931 data |       |        |            |            |       |       |
|---------------------------------|-------|--------|------------|------------|-------|-------|
| $L^*$                           | $a^*$ | $b^*$  | $C^*_{90}$ | $h^*_{90}$ | $L^*$ | $a^*$ |
| $R_{400}$                       | 50.5  | 76.92  | 64.55      | 109.42     | 49    |       |
| $R_{450}$                       | 92.66 | -20.69 | 90.75      | 93.08      | 103   |       |
| $R_{500}$                       | 83.63 | -82.75 | 79.9       | 115.84     | 136   |       |
| $R_{550}$                       | 66.88 | -46.16 | -13.55     | 48.12      | 196   |       |
| $R_{600}$                       | 30.39 | 76.06  | -103.59    | 128.52     | 206   |       |
| $R_{650}$                       | 57.3  | 94.75  | -58.41     | 110.97     | 228   |       |
| $R_{700}$                       | 0.01  | 0.0    | 0.0        | 0.0        | 0     |       |
| $R_{750}$                       | 95.41 | 0.0    | 0.0        | 0.0        | 0     |       |
| $R_{800}$                       | 29.92 | 58.74  | 27.99      | 65.87      | 25    |       |
| $L_{c20}$                       | 81.26 | -2.89  | 71.56      | 71.62      | 92    |       |
| $L_{c50}$                       | 52.23 | -42.41 | 13.6       | 44.55      | 162   |       |
| $L_{c90}$                       | 30.57 | 1.41   | -45.45     | 45.45      | 227   |       |

