

Input: Colorimetric Television Luminous System TL500a

with rgb_d data of the four elementary hues

(1 0 0)_h = Red R_p

(1 1 0)_h = Yellow Y_p

(0 1 0)_h = Green G_p

(0 0 1)_h = Blue B_p



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

TL500a adapted (a) CHD44 data					
$L^* = L^*_{p,h}$	$a^*_{p,h}$	$b^*_{p,h}$	$C^*_{p,h}$	$h^*_{p,h}$	
R_{TL500a}	50.5	76.92	64.35	100.42	00
Y_{TL500a}	92.66	-20.69	90.75	93.08	033
G_{TL500a}	83.63	-82.75	79.9	115.84	136
C_{TL500a}	86.88	-46.16	-13.55	48.12	196
B_{TL500a}	30.39	76.06	-103.59	128.52	206
M_{TL500a}	57.3	94.35	-58.41	110.97	228
N_{TL500a}	0.01	0.0	0.0	0.0	0
W_{TL500a}	95.41	0.0	0.0	0.0	0
S_{TL500a}	29.92	58.74	27.99	65.87	25
L_{TL500a}	81.26	-2.88	71.52	71.62	92
C_{TL500a}	52.23	-82.41	13.6	44.55	162
h_{TL500a}	33.57	1.41	-45.45	45.45	227

Output: Colorimetric Television Luminous System TL500a

with hue number

$n = 01$ to 16

01 = Red R_p

05 = Yellow Y_p

09 = Green G_p

13 = Blue B_p

with hue position

(row and column)

of test chart ISO 5241-300:AEF49



TL500a adapted (a) CHD44 data					
$L^* = L^*_{p,h}$	$a^*_{p,h}$	$b^*_{p,h}$	$C^*_{p,h}$	$h^*_{p,h}$	
R_{TL500a}	50.5	76.92	64.35	100.42	00
Y_{TL500a}	92.66	-20.69	90.75	93.08	033
G_{TL500a}	83.63	-82.75	79.9	115.84	136
C_{TL500a}	86.88	-46.16	-13.55	48.12	196
B_{TL500a}	30.39	76.06	-103.59	128.52	206
M_{TL500a}	57.3	94.35	-58.41	110.97	228
N_{TL500a}	0.01	0.0	0.0	0.0	0
W_{TL500a}	95.41	0.0	0.0	0.0	0
S_{TL500a}	29.92	58.74	27.99	65.87	25
L_{TL500a}	81.26	-2.88	71.52	71.62	92
C_{TL500a}	52.23	-82.41	13.6	44.55	162
h_{TL500a}	33.57	1.41	-45.45	45.45	227

