

Input: Colorimetric Television Luminous System TL500a

with x_{Yb} data of the
four elementary hues

(1 0 0)_Y = Red R_Y

(1 1 0)_Y = Yellow Y_Y

(0 1 0)_Y = Green G_Y

(0 0 1)_Y = Blue B_Y



TL500a adapted (by) CHROMA data					
L^*	a^*	b^*	C^*	h^*	ΔE^*
R_{Yb}	50.5	76.92	64.55	100.42	40
Y_{Yb}	92.66	-20.69	90.75	93.08	103
G_{Yb}	83.63	-82.75	79.9	115.04	136
B_{Yb}	86.88	-46.16	-13.55	68.12	196
R_{Yc}	50.39	76.06	-103.59	128.52	206
Y_{Yc}	57.3	94.35	-58.41	110.97	328
G_{Yc}	0.01	0.0	0.0	0.0	0
B_{Yc}	95.41	0.0	0.0	0.0	0
R_{Ym}	29.92	58.74	27.99	65.07	25
Y_{Ym}	81.26	-2.88	71.56	71.62	92
G_{Ym}	52.23	-42.41	13.6	44.55	162
B_{Ym}	30.57	1.41	-45.46	46.49	373

Output: Colorimetric Television Luminous System TL500a

with hue number

n : 01 to 32

01 = Red R_Y

09 = Yellow Y_Y

17 = Green G_Y

25 = Blue B_Y

with hue position

(row and column)

of test chart ISO 9241-306:AE49



TL500a adapted (by) CHROMA data					
L^*	a^*	b^*	C^*	h^*	ΔE^*
R_{Yb}	50.5	76.92	64.55	100.42	40
Y_{Yb}	92.66	-20.69	90.75	93.08	103
G_{Yb}	83.63	-82.75	79.9	115.04	136
B_{Yb}	86.88	-46.16	-13.55	68.12	196
R_{Yc}	50.39	76.06	-103.59	128.52	206
Y_{Yc}	57.3	94.35	-58.41	110.97	328
G_{Yc}	0.01	0.0	0.0	0.0	0
B_{Yc}	95.41	0.0	0.0	0.0	0
R_{Ym}	29.92	58.74	27.99	65.07	25
Y_{Ym}	81.26	-2.88	71.56	71.62	92
G_{Ym}	52.23	-42.41	13.6	44.55	162
B_{Ym}	30.57	1.41	-45.46	46.49	373

