

Input: Colorimetric Television Luminous System TL500a

with x_{rgb} 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



$L^* = L^*_{\text{ref}}$	a^*_{ref}	b^*_{ref}	C^*_{ref}	M^*_{ref}	
R_{ref}	50.5	76.92	64.55	100.42	49
Y_{ref}	92.65	-20.69	90.75	93.08	103
G_{ref}	83.63	-82.75	79.9	115.84	136
B_{ref}	86.88	-46.36	-13.55	48.12	196
R_{ref}	30.39	76.05	-103.59	128.52	306
Y_{ref}	57.3	94.75	-58.41	110.97	328
G_{ref}	0.01	0.0	0.0	0.0	0
B_{ref}	95.41	0.0	0.0	0.0	0
R_{ref}	39.92	58.74	27.99	65.87	25
Y_{ref}	81.26	-2.88	71.56	71.62	92
G_{ref}	52.23	-82.41	13.6	44.55	162
B_{ref}	30.57	1.41	-65.45	65.45	272

Output: Colorimetric Television Luminous System TL500a

with hue number

$n = 01$ to 32

01 = Red R_p

09 = Yellow Y_p

17 = Green G_p

25 = Blue B_p

with hue position

(row and column)

of test chart ISO 5241-306:AE49



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