

Input: Colorimetric Television Luminous System TL500a

with x_{rgb} data of the
four elementary hues
(1 0 0)_h = Red R_y
(1 1 0)_h = Yellow Y_y
(0 1 0)_h = Green G_y
(0 0 1)_h = Blue B_y



TL500a adapted (a) CIECAM data						
$L^* = L^*_{\text{ref}}$	a^*_{ref}	b^*_{ref}	C^*_{ref}	h^*_{ref}	M^*_{ref}	S^*_{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	-46.16	-13.55	48.12	196	
R_{ref}	30.39	76.06	-103.59	128.52	306	
Y_{ref}	57.3	94.35	-58.41	110.97	129	
G_{ref}	0.01	0.0	0.0	0.0	0	
B_{ref}	95.41	0.0	0.0	0.0	0	
R_{ref}	29.92	58.74	27.99	65.87	25	
L_{ref}	81.26	-2.88	71.56	71.62	92	
C_{ref}	52.23	-42.41	13.6	44.55	162	
S_{ref}	30.57	1.41	-45.45	45.45	273	

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 5241-306:AEF9



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