

Input: Colorimetric Television Luminous System TL500a

with xy_t data of the four device 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 (a) CIECAM data						
$L^* = L^*_{\text{ref}}$	a^*_a	b^*_a	C^*_{ref}	h^*_a	α	β
R_{ref}	50.5	76.92	64.55	100.42	0	0
Y_{ref}	92.66	-20.69	90.75	93.08	103	0
G_{ref}	83.63	-82.75	79.9	115.84	136	0
C_{ref}	66.88	-46.16	-13.55	48.12	196	0
B_{ref}	30.39	76.05	-103.59	128.52	206	0
R_{ref}	57.3	94.75	-58.41	110.97	228	0
Y_{ref}	0.01	0.0	0.0	0.0	0	0
G_{ref}	95.41	0.0	0.0	0.0	0	0
C_{ref}	29.92	58.74	27.99	65.87	25	0
B_{ref}	81.26	-2.88	71.52	71.62	92	0
C_{ref}	52.23	-42.41	13.6	44.55	162	0
B_{ref}	30.57	1.41	-65.45	65.45	273	0

Output: Colorimetric Television Luminous System TL500a

with hue number

$n = 01$ to 32

01 = Red R_d

09 = Yellow Y_d

17 = Green G_d

25 = Blue B_d

with hue position

(row and column)

of test chart ISO 5241-300:AEF7



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