

Input: Colorimetric Television Luminous System TL500a

with rgb data of the
four elementary bases

1 0 0 = Red R_p

1 1 0 = Yellow Y_p

0 1 0 = Green G_p

0 0 1 = Blue B_p



TL500a; adapted (a) CIE/D50 data						
L^*	a^*	b^*	C^*_{ab}	h^*_{ab}		
D_{50}	50.5	76.92	64.55	100.42	00	
V_{50}	92.66	-20.69	90.75	91.08	003	
L_{50}	83.63	-82.75	79.9	115.84	136	
C_{50}	86.88	-66.16	-13.55	48.13	196	
V_{50}	30.39	76.06	-103.59	128.52	306	
M_{50}	57.3	94.35	-58.41	110.97	128	
N_{50}	0.01	0.0	0.0	0.0	0	
W_{50}	95.41	0.0	0.0	0.0	0	
R_{50}	39.92	58.74	27.99	65.87	25	
I_{50}	81.26	-2.88	71.56	71.62	92	
G_{50}	52.23	-82.41	13.6	44.55	162	
B_{50}	30.57	1.41	-65.45	65.45	272	

Output: Colorimetric Television Luminous System TL500a

with base number

$n = 00$ to 19

00 = Red R_p

05 = Yellow Y_p

10 = Green G_p

15 = Blue B_p



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