

Input: Colorimetric Television Luminous System TL500a

with xyh_d data of the
four elementary 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 (q) CIE1931 data						
L^*	a^*	b^*	$C^*_{90,40}$	h^*_p		
R_{90}	50.5	76.92	64.35	100.42	0°	
Y_{90}	92.65	-20.69	90.75	93.08	103°	
G_{90}	83.63	-82.75	79.9	115.84	136°	
C_{90}	65.88	-65.16	-13.55	48.12	196°	
B_{90}	30.39	76.05	-103.59	128.52	206°	
M_{90}	57.3	94.35	-58.41	110.97	128°	
N_{90}	0.01	0.0	0.0	0.0	0°	
W_{90}	95.41	0.0	0.0	0.0	0°	
R_{100}	29.92	58.74	27.99	65.87	25°	
Y_{100}	81.26	-2.88	71.56	71.62	92°	
G_{100}	52.23	-82.41	13.6	44.55	162°	
C_{100}	30.57	1.41	-65.45	45.49	272°	

Output: Colorimetric Television Luminous System TL500a

with hue number

$n = 01$ to 16

01 = Red R_d

05 = Yellow Y_d

09 = Green G_d

13 = Blue B_d

with hue position

(row and column)

of test chart ISO 5241-300:AEF3



TL500a adapted (q) CIE1931 data						
L^*	a^*	b^*	$C^*_{90,40}$	h^*_p		
R_{90}	50.5	76.92	64.35	100.42	0°	
Y_{90}	92.65	-20.69	90.75	93.08	103°	
G_{90}	83.63	-82.75	79.9	115.84	136°	
C_{90}	65.88	-65.16	-13.55	48.12	196°	
B_{90}	30.39	76.05	-103.59	128.52	206°	
M_{90}	57.3	94.35	-58.41	110.97	128°	
N_{90}	0.01	0.0	0.0	0.0	0°	
W_{90}	95.41	0.0	0.0	0.0	0°	
R_{100}	29.92	58.74	27.99	65.87	25°	
Y_{100}	81.26	-2.88	71.56	71.62	92°	
G_{100}	52.23	-82.41	13.6	44.55	162°	
C_{100}	30.57	1.41	-65.45	45.49	272°	

