

Input: Colorimetric Television Luminous System TL500a

with rgb_0 data of the four elementary hues

(1 0 0)₀ = Red R_0

(1 1 0)₀ = Yellow Y_0

(0 1 0)₀ = Green G_0

(0 0 1)₀ = Blue B_0



The rgb_0 data are calculated for output in standard offset according to ISO/IEC 15775

TL500a adapted (a) CIECAM02 data									
$L^*=L^*_{cp}$	a^*	b^*	C^*_{ab}	h^*_{ab}	$L^*=L^*_{cp}$	a^*	b^*	C^*_{ab}	h^*_{ab}
R_{00}	50.5	76.92	64.35	100.42	00				
Y_{00}	92.65	-20.69	90.75	93.08	033				
G_{00}	83.63	-82.75	79.9	115.84	136				
C_{00}	86.88	-66.16	-13.55	48.12	196				
B_{00}	30.39	76.06	-103.59	128.52	206				
M_{00}	57.3	94.35	-58.41	110.97	128				
N_{00}	0.01	0.0	0.0	0.0	0				
W_{00}	95.41	0.0	0.0	0.0	0				
C_{000}	39.92	58.74	27.99	65.87	25				
L_{000}	81.26	-2.88	71.56	71.62	92				
C_{000}	52.23	-82.41	13.6	44.55	162				
h_{000}	30.57	1.41	-65.45	65.45	272				

Output: Colorimetric Television Luminous System TL500a

with hue number

$n=01$ to 16

01 = Red R_0

05 = Yellow Y_0

09 = Green G_0

13 = Blue B_0

with hue position

(row and column)

of test chart ISO 5241-300:AE49



TL500a adapted (a) CIECAM02 data									
$L^*=L^*_{cp}$	a^*	b^*	C^*_{ab}	h^*_{ab}	$L^*=L^*_{cp}$	a^*	b^*	C^*_{ab}	h^*_{ab}
R_{00}	50.5	76.92	64.35	100.42	00				
Y_{00}	92.65	-20.69	90.75	93.08	033				
G_{00}	83.63	-82.75	79.9	115.84	136				
C_{00}	86.88	-66.16	-13.55	48.12	196				
B_{00}	30.39	76.06	-103.59	128.52	206				
M_{00}	57.3	94.35	-58.41	110.97	128				
N_{00}	0.01	0.0	0.0	0.0	0				
W_{00}	95.41	0.0	0.0	0.0	0				
C_{000}	39.92	58.74	27.99	65.87	25				
L_{000}	81.26	-2.88	71.56	71.62	92				
C_{000}	52.23	-82.41	13.6	44.55	162				
h_{000}	30.57	1.41	-65.45	65.45	272				

