

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$

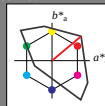
lab^*ch and lab^*nh

D65: hue O

LCH*Ma: 51 100 40

ol*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

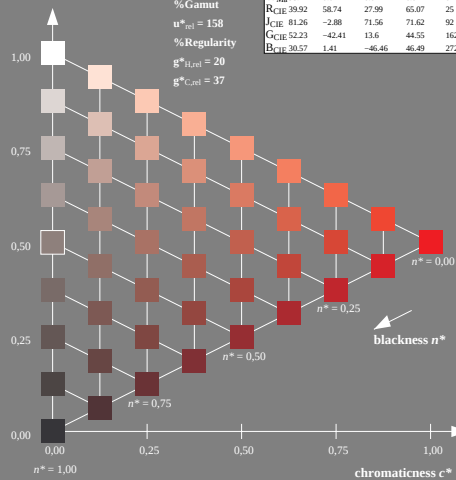
$u^*_{rel} = 158$

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TL500; adapted (a)		CIELAB data			
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _M	50.5	76.92	64.55	100.42	40
Y _M	92.66	-20.69	90.75	93.08	103
L _M	83.63	-82.75	79.9	115.04	136
C _M	86.88	-46.16	-13.55	48.12	196
V _M	30.39	76.06	-103.59	128.52	306
M _M	57.3	94.35	-58.41	110.97	328
N _M	0.01	0.0	0.0	0.0	0
W _M	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



OE73-7, 9 step scales for constant CIE hue 40/360 = 0.111 (left)

BAM-test chart OE73; Colorimetric systems TLS00 & TLS70
D65: 9 and 16 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 22/360 = 0.061$

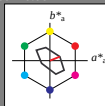
lab^*ch and lab^*nh

D65: hue O

LCH*Ma: 76 28 22

ol*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

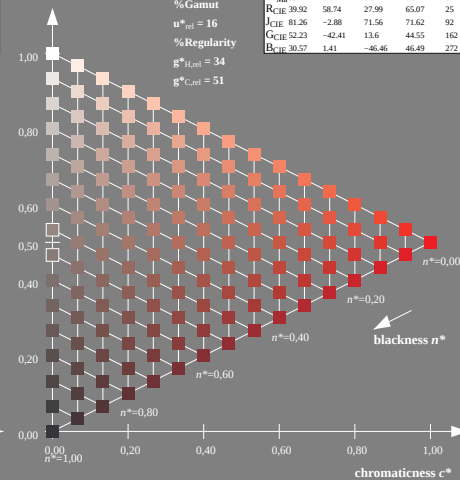
$u^*_{rel} = 16$

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

T _{LS70} ; adapted (a) CIELAB data					
	L* _a	a* _a	b* _a	C* _{ab,a}	h* _{ab,a}
O _M	76.43	26.27	10.57	28.32	22
Y _M	93.93	-10.76	34.63	36.27	107
L _M	89.32	-35.8	27.64	45.24	142
C _M	90.93	-21.95	-7.07	23.07	198
V _M	72.1	15.76	-35.63	38.97	294
M _M	78.5	37.52	-25.23	45.22	326
N _M	69.7	0.0	0.0	0.0	0
W _M	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



16 step scales for constant CIE hue 22/360 = 0.061 (right)

input: cmy0* setcmykcolor
output: no change compared to input