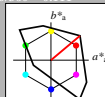


Input: Colorimetric Television Luminous System TLS00

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

D65: hue O  
 LCH\*Ma: 51 100 40  
 olv\*Ma: 1.0 0.0 0.0

triangle lightness  $l^*$



**TLS00; adapted (a) CIELAB data**

$L^*$	$a^*$	$b^*$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	50.5	76.92	64.55	100.42	40
Y <sub>Ma</sub>	92.66	-20.69	90.75	93.08	103
L <sub>Ma</sub>	83.63	-82.75	79.9	115.04	136
C <sub>Ma</sub>	86.88	-46.16	-13.55	48.12	196
V <sub>Ma</sub>	30.39	76.06	-103.59	128.52	300
M <sub>Ma</sub>	57.3	94.35	-58.41	110.97	328
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.28	71.56	71.62	92
G <sub>CIE</sub>	52.23	-44.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut  
 $u^*_{rel} = 158$   
 %Regularity  
 $g^*_{rel} = 20$   
 $g^*_{Crel} = 37$

relative Inform. Technology (IT)  
 $olv3^* = 1.0$  1.0 1.0 (1.0)  
 $cmv3^* = 0.0$  0.5 0.5 (0.0)  
 $olv4^* = 1.0$  1.0 1.0 1.0  
 $cmv4^* = 0.0$  0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 95.41 0.0 0.0  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHe 99.99 0.01 -

relative CIELAB lab\*  
 $lab^*lab$  1.0 0.5 0.0 0.0  
 $lab^*tch$  1.0 0.0 -

relative Natural Colour (NC)  
 $lab^*l^*r$  1.0 0.0 0.0  
 $lab^*t^*c$  1.0 0.0 -

standard and adapted CIELAB  
 LAB\*LAB 47.72 0.0 0.0  
 LAB\*LABa 47.72 0.0 0.0  
 LAB\*TCHe 50.0 0.01 -

relative CIELAB lab\*  
 $lab^*lab$  0.5 0.0 0.0  
 $lab^*tch$  0.5 0.0 -

relative Natural Colour (NC)  
 $lab^*l^*r$  0.5 0.0 0.0  
 $lab^*t^*c$  0.5 0.0 -

standard and adapted CIELAB  
 LAB\*LAB 0.03 0.0 0.0  
 LAB\*LABa 0.03 0.0 0.0  
 LAB\*TCHe 0.01 0.01 -

relative CIELAB lab\*  
 $lab^*lab$  0.0 0.0 0.0  
 $lab^*tch$  0.0 0.0 -

relative Natural Colour (NC)  
 $lab^*l^*r$  0.0 0.0 0.0  
 $lab^*t^*c$  0.0 0.0 -

$n^* = 1.0$

relative Inform. Technology (IT)  
 $olv3^* = 1.0$  0.5 0.5 (1.0)  
 $cmv3^* = 0.0$  0.5 0.5 (0.0)  
 $olv4^* = 1.0$  0.5 0.5 0.5  
 $cmv4^* = 0.0$  0.5 0.5 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 72.95 38.45 32.27  
 LAB\*LABa 72.95 38.45 32.27  
 LAB\*TCHe 75.0 50.2 40.0

relative CIELAB lab\*  
 $lab^*lab$  0.765 0.383 0.321  
 $lab^*tch$  0.75 0.5 0.111  
 $lab^*nch$  0.0 0.5 0.111

relative Natural Colour (NC)  
 $lab^*l^*r$  0.765 0.471 0.167  
 $lab^*t^*c$  0.75 0.5 0.054  
 $lab^*n^*c$  0.0 0.5 0.21

standard and adapted CIELAB  
 LAB\*LAB 50.5 76.9 64.54  
 LAB\*LABa 50.5 76.9 64.54  
 LAB\*TCHe 50.0 100.4 40.0

relative CIELAB lab\*  
 $lab^*lab$  0.529 0.766 0.643  
 $lab^*tch$  0.5 1.0 0.111  
 $lab^*nch$  0.0 1.0 0.111

relative Natural Colour (NC)  
 $lab^*l^*r$  0.529 0.942 0.335  
 $lab^*t^*c$  0.5 1.0 0.054  
 $lab^*n^*c$  0.0 1.0 0.21

$n^* = 0.00$

blackness  $n^*$

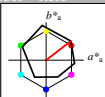
chromaticness  $c^*$

Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.105$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O  
 LCH\*Ma: 48 83 38  
 olv\*Ma: 1.0 0.0 0.0

triangle lightness  $l^*$



**ORS18; adapted (a) CIELAB data**

$L^*$	$a^*$	$b^*$	$C^*_{ab,a}$	$h^*_{ab,a}$	
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.99	92
G <sub>CIE</sub>	52.23	-44.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	271

%Gamut  
 $u^*_{rel} = 93$   
 %Regularity  
 $g^*_{rel} = 57$   
 $g^*_{Crel} = 59$

relative Inform. Technology (IT)  
 $olv3^* = 1.0$  1.0 1.0 (1.0)  
 $cmv3^* = 0.0$  0.5 0.5 (0.0)  
 $olv4^* = 1.0$  1.0 1.0 1.0  
 $cmv4^* = 0.0$  0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 95.41 -0.98 4.75  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHe 99.99 0.01 -

relative CIELAB lab\*  
 $lab^*lab$  1.0 0.0 0.0  
 $lab^*tch$  1.0 0.0 -

relative Natural Colour (NC)  
 $lab^*l^*r$  1.0 0.0 0.0  
 $lab^*t^*c$  1.0 0.0 -

standard and adapted CIELAB  
 LAB\*LAB 56.71 -24.2 21.4  
 LAB\*LABa 56.71 0.0 0.0  
 LAB\*TCHe 50.0 0.01 -

relative CIELAB lab\*  
 $lab^*lab$  0.5 0.0 0.0  
 $lab^*tch$  0.5 0.0 -

relative Natural Colour (NC)  
 $lab^*l^*r$  0.5 0.0 0.0  
 $lab^*t^*c$  0.5 0.0 -

relative Inform. Technology (IT)  
 $olv3^* = 1.0$  0.5 0.5 (1.0)  
 $cmv3^* = 0.0$  0.5 0.5 (0.0)  
 $olv4^* = 1.0$  0.5 0.5 0.5  
 $cmv4^* = 0.0$  0.5 0.5 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 71.67 32.15 28.41  
 LAB\*LABa 71.67 32.69 25.25  
 LAB\*TCHe 75.0 41.31 37.69

relative CIELAB lab\*  
 $lab^*lab$  0.693 0.396 0.306  
 $lab^*tch$  0.75 0.5 0.105  
 $lab^*nch$  0.0 0.5 0.105

relative Natural Colour (NC)  
 $lab^*l^*r$  0.693 0.477 0.15  
 $lab^*t^*c$  0.75 0.5 0.048  
 $lab^*n^*c$  0.0 0.5 0.191

standard and adapted CIELAB  
 LAB\*LAB 32.98 32.9 25.8  
 LAB\*LABa 32.98 32.69 25.25  
 LAB\*TCHe 25.01 41.31 37.69

relative CIELAB lab\*  
 $lab^*lab$  0.193 0.396 0.306  
 $lab^*tch$  0.25 0.5 0.105  
 $lab^*nch$  0.0 1.5 0.105

relative Natural Colour (NC)  
 $lab^*l^*r$  0.193 0.477 0.15  
 $lab^*t^*c$  0.25 0.5 0.048  
 $lab^*n^*c$  0.0 0.5 0.191

$n^* = 0.00$

blackness  $n^*$

chromaticness  $c^*$

$n^* = 1.0$

NE150-7, 3 step scales for constant CIELAB hue 40/360 = 0.111 (left)

3 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM test chart NE15; Colorimetric systems TLS00 & ORS18

D65: 2 coordinate data of 3 step colour scales for 10 hues

input:  $olv^* setrgbcolor$

output:  $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/NE15/>  
 Technical information: <http://www.ps.bam.de>

BAM registration: 20060101-NE15/10Q/Q15E00F1.PS/TXT  
 BAM material: code=ha4ta  
 NE15: Formel 110 Seite 11 - Page 1

Page count: 1