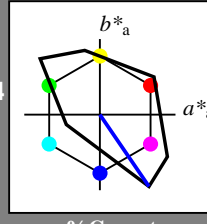


Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 304/360 = 0.845$
 lab^*ch and lab^*nch

D65: hue V
LCH*Ma: 35 115 304
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*

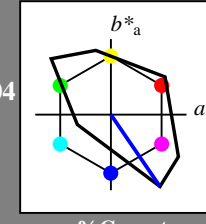


TLS18; adapted (a) CIELAB data table with columns L*, a*, b*, C*ab,a, h*ab,a and rows for Ma and Mm color scales.

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 304/360 = 0.845$
 lab^*tch and lab^*nch

D65: hue V
LCH*Ma: 35 115 304
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*



TLS18; adapted (a) CIELAB data table with columns L*, a*, b*, C*ab,a, h*ab,a and rows for Ma and Mm color scales.

relative Inform. Technology (IT) and standard and adapted CIELAB data for input system.

relative CIELAB lab* data for input system.

%Regularity data for input system: g*H,rel = 22, g*C,rel = 40.

relative Inform. Technology (IT) and standard and adapted CIELAB data for output system.

relative CIELAB lab* data for output system.

%Regularity data for output system: g*H,rel = 22, g*C,rel = 40.

relative Inform. Technology (IT) and standard and adapted CIELAB data for input system, chromaticity c* = 0.25.

relative CIELAB lab* data for input system, c* = 0.25.

%Regularity data for input system, c* = 0.25.

relative Inform. Technology (IT) and standard and adapted CIELAB data for output system, c* = 0.25.

relative CIELAB lab* data for output system, c* = 0.25.

%Regularity data for output system, c* = 0.25.

relative Inform. Technology (IT) and standard and adapted CIELAB data for input system, chromaticity c* = 0.50.

relative CIELAB lab* data for input system, c* = 0.50.

%Regularity data for input system, c* = 0.50.

relative Inform. Technology (IT) and standard and adapted CIELAB data for output system, c* = 0.50.

relative CIELAB lab* data for output system, c* = 0.50.

%Regularity data for output system, c* = 0.50.

relative Inform. Technology (IT) and standard and adapted CIELAB data for input system, chromaticity c* = 0.75.

relative CIELAB lab* data for input system, c* = 0.75.

%Regularity data for input system, c* = 0.75.

relative Inform. Technology (IT) and standard and adapted CIELAB data for output system, c* = 0.75.

relative CIELAB lab* data for output system, c* = 0.75.

%Regularity data for output system, c* = 0.75.

relative Inform. Technology (IT) and standard and adapted CIELAB data for input system, chromaticity c* = 1.0.

relative CIELAB lab* data for input system, c* = 1.0.

%Regularity data for input system, c* = 1.0.

relative Inform. Technology (IT) and standard and adapted CIELAB data for output system, c* = 1.0.

relative CIELAB lab* data for output system, c* = 1.0.

%Regularity data for output system, c* = 1.0.

NE590-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

5 step scales for constant CIELAB hue 304/360 = 0.845 (right)

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18

input: $olv^*setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

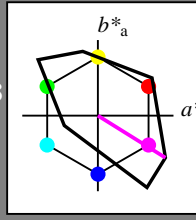
output: no change compared to input

See for similar files: http://www.ps.bam.de/NE59/
Technical information: http://www.ps.bam.de/Version 2.1, io=1,1

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
 lab^*ch and lab^*nch

D65: hue M
 LCH*Ma: 59 105 328
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



%Gamut
 $u^*_{rel} = 118$

relative Inform. Technology (IT)				
olvi ³ *	1.0	1.0	1.0	(1.0)
olvi ² *	0.0	0.0	0.0	(0.0)
olvi ¹ *	1.0	1.0	1.0	1.0
olvi ⁴ *	0.0	0.0	0.0	0.0
olvi ⁵ *	1.0	1.0	1.0	1.0
olvi ⁶ *	0.0	0.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0
lab*nh	1.0	0.0	0.0	0.0
relative Natural Colour (NC)				
lab*nlr	1.0	0.0	0.0	0.0
lab*nlc	1.0	0.0	0.0	0.0
lab*nlc	0.0	1.0	0.0	0.0

relative Inform. Technology (IT)				
olvi ³ *	1.0	0.75	1.0	(1.0)
olvi ² *	0.0	0.25	0.0	(0.0)
olvi ¹ *	1.0	1.0	1.0	1.0
olvi ⁴ *	0.0	0.75	1.0	0.75
olvi ⁵ *	1.0	1.0	1.0	1.0
olvi ⁶ *	0.0	0.25	0.0	0.25
standard and adapted CIELAB				
LAB*LAB	76.07	0.0	0.0	0.0
LAB*LABa	76.07	0.0	0.0	0.0
LAB*LABb	75.00	0.01	0.0	0.0
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	0.0
lab*nch	0.75	0.0	0.0	0.0
lab*ch	0.75	0.0	0.0	0.0
lab*nh	0.75	0.0	0.0	0.0
relative Natural Colour (NC)				
lab*nlr	0.75	0.0	0.0	0.0
lab*nlc	0.75	0.0	0.0	0.0
lab*nlc	0.0	0.75	0.0	0.0

TLS18; adapted (a) CIELAB data

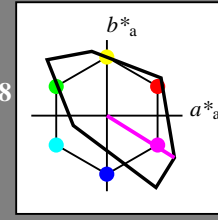
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	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

%Regularity
 $g^*_{H,rel} = 22$
 $g^*_{C,rel} = 40$

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
 lab^*ch and lab^*nch

D65: hue M
 LCH*Ma: 59 105 328
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



%Gamut
 $u^*_{rel} = 118$

relative Inform. Technology (IT)				
olvi ³ *	1.0	1.0	1.0	(1.0)
olvi ² *	0.0	0.0	0.0	(0.0)
olvi ¹ *	1.0	1.0	1.0	1.0
olvi ⁴ *	0.0	0.0	0.0	0.0
olvi ⁵ *	1.0	1.0	1.0	1.0
olvi ⁶ *	0.0	0.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	0.0
lab*nch	1.0	0.0	0.0	0.0
lab*ch	1.0	0.0	0.0	0.0
lab*nh	1.0	0.0	0.0	0.0
relative Natural Colour (NC)				
lab*nlr	1.0	0.0	0.0	0.0
lab*nlc	1.0	0.0	0.0	0.0
lab*nlc	0.0	1.0	0.0	0.0

%Regularity
 $g^*_{H,rel} = 22$
 $g^*_{C,rel} = 40$

NE590-7, 5 step scales for constant CIELAB hue 328/360 = 0.911 (left)

5 step scales for constant CIELAB hue 328/360 = 0.911 (right)

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18
 D65: 19 2 coordinate data of 5 step colour scales for 10 hues

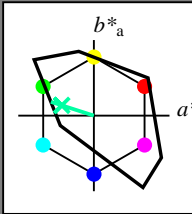
input: `olv* setrgbcolor`
 output: `no change compared to input`

BAM registration: 20060101-NE59/10L/L59E05NP.PS/.PDF BAM material: code=rhd4ta
 application for evaluation and measurement of printer or monitor systems
 /NE59/ Form 6/10, Serier: 1/1, Page: 6 Page count: 6

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 162/360 = 0.451$
 lab^*ch and lab^*nch

D65: hue G
 LCH*Ma: 86 60 162
 olv*Ma: 0.0 1.0 0.64
 triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.02	84.97	87.3	103
LMa	84.0	-78.98	73.94	108.2	137
CMa	87.14	-44.41	-13.11	46.32	196
VMa	35.47	64.92	-95.06	115.12	304
MMa	59.01	89.33	-55.67	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 $olvi^* = 0.0$ 0.0 0.0 (0.0)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 $olvi^* = 0.0$ 0.0 0.0 (0.0)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 $olvi^* = 0.0$ 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*LABc 99.99 0.01 0.0

relative Inform. Technology (IT)
 $olvi^* = 0.75$ 1.0 0.91 (1.0)
 $olvi^* = 0.25$ 0.0 0.09 (0.0)
 $olvi^* = 0.75$ 1.0 0.91 (1.0)
 $olvi^* = 0.25$ 0.0 0.09 (0.0)
 $olvi^* = 0.75$ 1.0 0.91 (1.0)
 $olvi^* = 0.25$ 0.0 0.09 (0.0)
 standard and adapted CIELAB
 LAB*LAB 93.05 -14.2 4.55
 LAB*LABa 93.05 -14.2 4.55
 LAB*LABc 87.5 14.92 162.24

relative Inform. Technology (IT)
 $olvi^* = 0.5$ 1.0 0.82 (1.0)
 $olvi^* = 0.18$ 0.0 0.18 (0.0)
 $olvi^* = 0.5$ 1.0 0.82 (1.0)
 $olvi^* = 0.18$ 0.0 0.18 (0.0)
 $olvi^* = 0.5$ 1.0 0.82 (1.0)
 $olvi^* = 0.18$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 90.7 -28.42 9.11
 LAB*LABa 90.7 -28.42 9.11
 LAB*LABc 75.0 29.85 162.23

relative Inform. Technology (IT)
 $olvi^* = 0.25$ 1.0 0.64 (1.0)
 $olvi^* = 0.0$ 0.0 0.36 (0.0)
 $olvi^* = 0.25$ 1.0 0.64 (1.0)
 $olvi^* = 0.0$ 0.0 0.36 (0.0)
 $olvi^* = 0.25$ 1.0 0.64 (1.0)
 $olvi^* = 0.0$ 0.0 0.36 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.35 -42.63 13.67
 LAB*LABa 88.35 -42.63 13.67
 LAB*LABc 62.5 44.78 162.23

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.0 -56.85 18.23
 LAB*LABa 86.0 -56.85 18.23
 LAB*LABc 50.0 59.71 162.23

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 $olvi^* = 0.0$ 1.0 0.64 (1.0)
 $olvi^* = 0.25$ 0.0 0.36 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.0 -56.85 18.23
 LAB*LABa 86.0 -56.85 18.23
 LAB*LABc 50.0 59.71 162.23

relative Inform. Technology (IT)
 $olvi^* = 0.5$ 0.5 0.5 (0.0)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 $olvi^* = 0.5$ 0.5 0.5 (0.0)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 $olvi^* = 0.5$ 0.5 0.5 (0.0)
 $olvi^* = 1.0$ 1.0 1.0 (1.0)
 standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LABa 56.72 0.0 0.0
 LAB*LABc 75.0 0.0 1.0

relative Inform. Technology (IT)
 $olvi^* = 0.25$ 0.5 0.41 (1.0)
 $olvi^* = 0.75$ 0.25 0.41 (0.0)
 $olvi^* = 0.25$ 0.5 0.41 (1.0)
 $olvi^* = 0.75$ 0.25 0.41 (0.0)
 $olvi^* = 0.25$ 0.5 0.41 (1.0)
 $olvi^* = 0.75$ 0.25 0.41 (0.0)
 standard and adapted CIELAB
 LAB*LAB 73.71 -14.21 4.56
 LAB*LABa 73.71 -14.21 4.56
 LAB*LABc 62.5 14.93 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.25$ 0.75 0.57 (1.0)
 $olvi^* = 0.75$ 0.25 0.43 (0.0)
 $olvi^* = 0.25$ 0.75 0.57 (1.0)
 $olvi^* = 0.75$ 0.25 0.43 (0.0)
 $olvi^* = 0.25$ 0.75 0.57 (1.0)
 $olvi^* = 0.75$ 0.25 0.43 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.36 -28.42 9.12
 LAB*LABa 71.36 -28.42 9.12
 LAB*LABc 50.0 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.48 (1.0)
 $olvi^* = 1.0$ 0.25 0.52 (0.0)
 $olvi^* = 0.0$ 0.75 0.48 (1.0)
 $olvi^* = 1.0$ 0.25 0.52 (0.0)
 $olvi^* = 0.0$ 0.75 0.48 (1.0)
 $olvi^* = 1.0$ 0.25 0.52 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.0 -56.85 18.23
 LAB*LABa 86.0 -56.85 18.23
 LAB*LABc 50.0 59.71 162.23

relative Inform. Technology (IT)
 $olvi^* = 0.25$ 0.25 0.25 (1.0)
 $olvi^* = 0.75$ 0.75 0.75 (0.0)
 $olvi^* = 0.25$ 0.25 0.25 (1.0)
 $olvi^* = 0.75$ 0.75 0.75 (0.0)
 $olvi^* = 0.25$ 0.25 0.25 (1.0)
 $olvi^* = 0.75$ 0.75 0.75 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.37 0.0 0.0
 LAB*LABa 37.37 0.0 0.0
 LAB*LABc 25.0 0.0 1.0

relative Inform. Technology (IT)
 $olvi^* = 0.47$ -0.237 0.076
 $olvi^* = 0.375$ 0.25 0.451
 $olvi^* = 0.75$ 1.0 0.91 (1.0)
 $olvi^* = 0.25$ 0.0 0.09 (0.0)
 $olvi^* = 0.47$ -0.237 0.076
 $olvi^* = 0.375$ 0.25 0.451
 $olvi^* = 0.75$ 1.0 0.91 (1.0)
 $olvi^* = 0.25$ 0.0 0.09 (0.0)
 standard and adapted CIELAB
 LAB*LAB 54.36 -14.21 4.56
 LAB*LABa 54.36 -14.21 4.56
 LAB*LABc 37.5 14.93 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

relative Inform. Technology (IT)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 $olvi^* = 0.0$ 0.75 0.57 (1.0)
 $olvi^* = 0.25$ 0.0 0.18 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.01 -28.42 9.12
 LAB*LABa 52.01 -28.42 9.12
 LAB*LABc 25.01 29.86 162.22

NE590-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart NE59; Colorimetric systems TLS18 & TLS18

input: olv* setrgbcolor

D65: 2 coordinate data of 5 step color scales for 10 hues

output: no change compared to input

See for similar files: <http://www.ps.bam.de/NE59/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=1, 1

