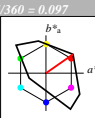


Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 35/360 = 0.097$
 lab^*ch and lab^*nch

D65: hue O
 LCh*Ma: 53 87 35
 olv*Ma: 1.0 0.0 0.0

triangle lightness l^*



TLIS18; adapted (a) CIELAB data

L^*	a^*	b^*	C^*_{ab}	h^*_{ab}	
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.70	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.44	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
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.28	71.56	71.62	92
G _{CIE}	52.23	-44.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Gamut
 $u^*_{rel} = 118$
 % Regularity
 $g^*_{rel} = 22$
 $g^*_{Crel} = 40$

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 (1.0)
 $cmv3^* = 0.0$ 0.0 0.0 (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*TC_{Ha} 99.99 0.01 -
 relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 -
 lab*nch 0.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 1.0 0.0 0.0
 lab*lrc 1.0 0.0 -
 lab*nrc 0.0 0.0 -

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 (1.0)
 $cmv3^* = 0.5$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (0.5)
 $cmv4^* = 0.0$ 0.0 0.0 (0.5)

standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LABa 56.72 0.0 0.0
 LAB*TC_{Ha} 50.0 0.01 -
 relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 -
 lab*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.5 0.0 0.0
 lab*lrc 0.5 0.0 -
 lab*nrc 0.5 0.0 -

relative Inform. Technology (IT)
 $olv3^* = 0.0$ 0.0 1.0 (1.0)
 $cmv3^* = 1.0$ 1.0 1.0 (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 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*TC_{Ha} 0.01 0.01 -
 relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 -
 lab*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.0 0.0 0.0
 lab*lrc 0.0 0.0 -
 lab*nrc 1.0 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 (0.0)
 $cmv4^* = 0.0$ 0.5 0.5 (0.0)

standard and adapted CIELAB
 LAB*LAB 74.08 35.81 24.94
 LAB*LABa 74.08 35.81 24.94
 LAB*TC_{Ha} 75.0 43.63 34.85
 relative CIELAB lab*
 lab*lab 0.724 0.41 0.286
 lab*ch 0.75 0.5 0.097
 lab*nch 0.0 0.5 0.097

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 (1.0)
 $cmv3^* = 0.5$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 (0.5)
 $cmv4^* = 0.0$ 0.5 0.5 (0.5)

standard and adapted CIELAB
 LAB*LAB 35.39 35.81 24.94
 LAB*LABa 35.39 35.81 24.94
 LAB*TC_{Ha} 25.01 43.63 34.85
 relative CIELAB lab*
 lab*lab 0.225 0.41 0.286
 lab*ch 0.225 0.5 0.097
 lab*nch 0.0 0.5 0.097

relative Natural Colour (NC)
 lab*lrj 0.225 0.488 0.109
 lab*lrc 0.75 0.5 0.035
 lab*nrc 0.5 0.5 0.14

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 1.0 1.0 (1.0)
 $cmv3^* = 0.0$ 0.0 0.0 (0.0)
 $olv4^* = 1.0$ 0.0 1.0 (0.5)
 $cmv4^* = 0.0$ 1.0 0.0 (0.5)

standard and adapted CIELAB
 LAB*LAB 52.76 71.62 49.87
 LAB*LABa 52.76 71.62 49.87
 LAB*TC_{Ha} 50.0 87.27 34.85
 relative CIELAB lab*
 lab*lab 0.449 0.82 0.571
 lab*ch 0.449 0.976 0.218
 lab*nch 0.0 1.0 0.097

relative Natural Colour (NC)
 lab*lrj 0.449 0.976 0.218
 lab*lrc 0.5 1.0 0.035
 lab*nrc 0.0 1.0 0.14

relative Inform. Technology (IT)
 $olv3^* = 0.0$ 0.0 0.0 (1.0)
 $cmv3^* = 1.0$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 1.5 1.0 (0.0)
 $cmv4^* = 0.0$ 0.0 0.0 (0.0)

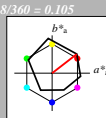
standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TC_{Ha} 0.01 0.01 -
 relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 -
 lab*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.0 0.0 0.0
 lab*lrc 0.0 0.0 -
 lab*nrc 0.0 0.0 -

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$
 lab^*ch 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}	h^*_{ab}	
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-44.25	11.76	43.87	164
B _{CIE}	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)
 $cmv3^* = 0.0$ 0.0 0.0 (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*TC_{Ha} 99.99 0.01 -
 relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 -
 lab*nch 0.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 1.0 0.0 0.0
 lab*lrc 1.0 0.0 -
 lab*nrc 0.0 0.0 -

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.5 0.5 (1.0)
 $cmv3^* = 0.5$ 0.5 0.5 (0.0)
 $olv4^* = 1.0$ 1.0 1.0 (0.5)
 $cmv4^* = 0.0$ 1.0 0.0 (0.5)

standard and adapted CIELAB
 LAB*LAB 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TC_{Ha} 50.0 0.01 -
 relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 -
 lab*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.5 0.0 0.0
 lab*lrc 0.5 0.0 -
 lab*nrc 0.5 0.0 -

relative Inform. Technology (IT)
 $olv3^* = 0.0$ 0.0 0.0 (1.0)
 $cmv3^* = 1.0$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 1.5 1.0 (0.0)
 $cmv4^* = 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TC_{Ha} 0.01 0.01 -
 relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 -
 lab*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab*lrj 0.0 0.0 0.0
 lab*lrc 0.0 0.0 -
 lab*nrc 0.0 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 (1.0)
 $cmv4^* = 0.0$ 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*TC_{Ha} 75.0 41.31 37.69
 relative CIELAB lab*
 lab*lab 0.693 0.396 0.306
 lab*ch 0.75 0.5 0.105
 lab*nch 0.0 0.5 0.105

relative Inform. Technology (IT)
 $olv3^* = 0.5$ 0.0 0.0 (1.0)
 $cmv3^* = 0.5$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 0.5 0.5 (0.5)
 $cmv4^* = 0.0$ 0.5 0.5 (0.5)

standard and adapted CIELAB
 LAB*LAB 32.98 32.9 25.8
 LAB*LABa 32.98 32.69 25.25
 LAB*TC_{Ha} 25.01 41.31 37.69
 relative CIELAB lab*
 lab*lab 0.193 0.396 0.306
 lab*ch 0.225 0.5 0.105
 lab*nch 0.5 0.5 0.105

relative Natural Colour (NC)
 lab*lrj 0.193 0.477 0.15
 lab*lrc 0.75 0.5 0.048
 lab*nrc 0.5 0.5 0.191

relative Inform. Technology (IT)
 $olv3^* = 1.0$ 0.0 0.0 (1.0)
 $cmv3^* = 0.0$ 1.0 1.0 (0.0)
 $olv4^* = 1.0$ 0.0 1.0 (0.5)
 $cmv4^* = 0.0$ 1.0 1.0 (0.0)

standard and adapted CIELAB
 LAB*LAB 47.94 65.3 52.06
 LAB*LABa 47.94 65.37 50.51
 LAB*TC_{Ha} 50.0 82.61 37.69
 relative CIELAB lab*
 lab*lab 0.387 0.791 0.611
 lab*ch 0.387 0.954 0.299
 lab*nch 0.0 1.0 0.105

relative Natural Colour (NC)
 lab*lrj 0.387 0.954 0.299
 lab*lrc 0.5 1.0 0.048
 lab*nrc 0.0 1.0 0.191

See for similar files: <http://www.ps.bam.de/NE16/>
 Technical information: <http://www.ps.bam.de/> Version 2.1, io=1.1, CIELAB

BAM registration: 20060101-NE16/10Q/Q16E00F1.PS/TXT
 BAM material: code=ha4ta
 BAM registration: 20060101-NE16/10Q/Q16E00F1.PS/TXT
 BAM material: code=ha4ta
 BAM registration: 20060101-NE16/10Q/Q16E00F1.PS/TXT
 BAM material: code=ha4ta

NE160-7, 3 step scales for constant CIELAB hue 35/360 = 0.097 (left)

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

BAM-test chart NE16; Colorimetric systems TLS18 & ORS18

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

input: $olv^* setrgcolor$

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