See for similar files: http://www.ps.bam.de/OE19/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

BAM registration: 20060101-OE19/10S/S19E00F1.PS/.TXT
application for evaluation and measurement of printer or monitor systems
BAM material: code=tha4ta

Input: Colorimetric Television Luminous System TLS70

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

D65: hue O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

triangle lightness t^*

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	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	−2.88	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

%Gamut
$u^*_{tri} = 16$
%Regularity
$g^*_{H,rel} = 34$
$g^*_{C,rel} = 51$

***relative* Inform. Technology (IT)**
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 1.0
cmyn4* 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*TCHa 99.99 0.0 –
relative* CIELAB *lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 –
lab*nch 0.0 0.0 0.0
***relative* Natural Colour (NC)**
lab*lrj 1.0 0.0 0.0
lab*tcE 1.0 0.0 –
lab*ncE 0.0 0.0 –

***relative* Inform. Technology (IT)**
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
***standard and adapted* CIELAB**
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 –
relative* CIELAB *lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 –
lab*nch 0.5 0.0 –
***relative* Natural Colour (NC)**
lab*lrj 0.5 0.0 0.0
lab*tcE 0.5 0.0 –
lab*ncE 0.5 0.0 –

***relative* Inform. Technology (IT)**
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 1.0
***standard and adapted* CIELAB**
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 –
relative* CIELAB *lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 –
lab*nch 1.0 0.0 –
***relative* Natural Colour (NC)**
lab*lrj 0.0 0.0 0.0
lab*tcE 0.0 0.0 –
lab*ncE 1.0 0.0 –

***relative* Inform. Technology (IT)**
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.5 0.5 0.0
***standard and adapted* CIELAB**
LAB*LAB 85.92 13.13 5.28
LAB*LABa 85.92 13.13 5.28
LAB*TCHa 75.0 14.16 21.92
relative* CIELAB *lab*
lab*lab 0.631 0.464 0.187
lab*tch 0.75 0.5 0.061
lab*nch 0.25 0.5 0.061
***relative* Natural Colour (NC)**
lab*lrj 0.631 0.499 −0.024
lab*tcE 0.75 0.5 0.992
lab*ncE 0.0 0.5 b96r

***relative* Inform. Technology (IT)**
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olv4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5
***standard and adapted* CIELAB**
LAB*LAB 73.07 13.13 5.28
LAB*LABa 73.07 13.13 5.28
LAB*TCHa 25.01 14.16 21.92
relative* CIELAB *lab*
lab*lab 0.131 0.464 0.187
lab*tch 0.25 0.5 0.061
lab*nch 0.75 0.5 0.061
***relative* Natural Colour (NC)**
lab*lrj 0.131 0.499 −0.024
lab*tcE 0.25 0.5 0.992
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olv3* 0.0 0.0 0.0 (1.0)
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LAB*LAB 76.43 26.26 10.57
LAB*LABa 76.43 26.26 10.57
LAB*TCHa 50.0 28.31 21.92
relative* CIELAB *lab*
lab*lab 0.262 0.928 0.373
lab*tch 0.5 1.0 0.061
lab*nch 0.0 1.0 0.061
***relative* Natural Colour (NC)**
lab*lrj 0.262 0.999 −0.048
lab*tcE 0.5 1.0 0.992
lab*ncE 0.0 1.0 b96r

$n^* = 0,00$
blackness n^*
0,25 0,50 $n^* = 0,50$ 0,75 1,00
chromaticness c^*
$n^* = 1,0$

Output: Colorimetric Television Luminous System TLS70

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lab^*tch and lab^*nch

D65: hue O
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lab*nch 0.0 0.0 0.0
***relative* Natural Colour (NC)**
lab*lrj 1.0 0.0 0.0
lab*tcE 1.0 0.0 –
lab*ncE 0.0 0.0 –

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olv3* 0.5 0.5 0.5 (1.0)
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***relative* Natural Colour (NC)**
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lab*tcE 0.5 0.0 –
lab*ncE 0.5 0.0 –

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***relative* Natural Colour (NC)**
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lab*tcE 0.0 0.0 –
lab*ncE 1.0 0.0 –

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$n^* = 0,00$
blackness n^*
0,25 0,50 $n^* = 0,50$ 0,75 1,00
chromaticness c^*
$n^* = 1,0$

OE190−7, 3 step scales for constant CIELAB hue 22/360 = 0.061 (left) 3 step scales for constant CIELAB hue 22/360 = 0.061 (right)

BAM-test chart OE19; Colorimetric systems TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 coordinate data of 3 step colour scales for 10 hues output: *cmy0* / 000n* setcmykcolor*