



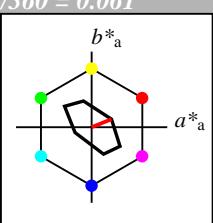
Input: Colorimetric Television Luminous System TLS70  
for hue  $h^* = lab^*h = 22/360 = 0.061$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 76 28 22

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.0 0.0 (1.0)  
 $cmy3^*$  1.0 1.0 1.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.0  
 $cmy4^*$  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)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*nCE$  1.0 0.0 -

$n^* = 1,0$

### TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	76.43	26.27	10.57	28.32	22
Y <sub>Ma</sub>	93.93	-10.76	34.63	36.27	107
L <sub>Ma</sub>	89.32	-35.8	27.64	45.24	142
C <sub>Ma</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>Ma</sub>	72.1	15.76	-35.63	38.97	294
M <sub>Ma</sub>	78.5	37.52	-25.23	45.22	326
N <sub>Ma</sub>	69.7	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 0.5 0.5 (1.0)

$cmy3^*$  0.0 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.5 0.5 1.0

$cmy4^*$  0.0 0.5 0.5 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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.0 0.0 0.5

$cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

$n^* = 1,0$

blackness  $n^*$

$n^* = 0,00$

chromaticness  $c^*$

### Output: Colorimetric Television Luminous System TLS00

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

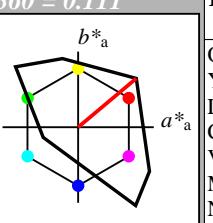
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 1.0 1.0 (1.0)

$cmy3^*$  0.0 0.0 0.0 (0.0)

$olv_i4^*$  1.0 1.0 1.0 1.0

$cmy4^*$  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 0.01

relative CIELAB lab\*

$lab^*lab$  1.0 0.0 0.0

$lab^*tch$  1.0 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 1.0 1.0 0.0

$cmy4^*$  0.0 0.0 0.0 1.0

standard and adapted CIELAB

$LAB^*LAB$  72.95 38.45 32.27

$LAB^*LABa$  72.95 38.45 32.27

$LAB^*TChA$  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)

$lab^*lrij$  0.765 0.471 0.167

$lab^*tce$  0.75 0.5 0.054

$lab^*nCE$  0.5 0.5 r21j

$n^* = 0,00$

blackness  $n^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	50.5	76.92	64.55	100.42	40
Y <sub>Ma</sub>	62.66	-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	306
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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 0.5 0.5 (1.0)  
 $cmy3^*$  0.0 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 0.5 0.5 1.0  
 $cmy4^*$  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

$LAB^*TChA$  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)

$lab^*lrij$  0.765 0.471 0.167

$lab^*tce$  0.75 0.5 0.054

$lab^*nCE$  0.5 0.5 r21j

$n^* = 0,00$

blackness  $n^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	50.5	76.9	64.54	100.4	40
Y <sub>Ma</sub>	62.66	-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	306
M <sub>Ma</sub>	57.3	94.35	-58.41	110.97	328
N <sub>Ma</sub>	0.01				

See for similar files: <http://www.ps.bam.de/NE18/>  
Technical information: <http://www.ps.bam.de>

Version 2.1, io=11, CIELAB

### Input: Colorimetric Television Luminous System TLS70

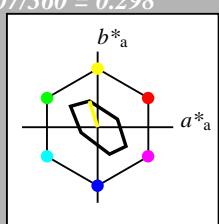
for hue  $h^* = lab^*h = 107/360 = 0.298$   
 $lab^*tch$  and  $lab^*nch$

D65: hue Y

LCH\*Ma: 94 36 107

olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*ice$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 0.5 (1.0)  
 $cmy3^*$  0.0 0.0 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 0.5 1.0  
 $cmy4^*$  0.0 0.0 0.5 0.0

standard and adapted CIELAB

$LAB^*LAB$  94.67 -5.37 17.31

$LAB^*LABa$  94.67 -5.37 17.31

$LAB^*TChA$  75.0 18.13 107.28

relative CIELAB lab\*

$lab^*lab$  0.971 -0.147 0.477

$lab^*tch$  0.75 0.5 0.298

$lab^*nch$  0.0 0.5 0.298

relative Natural Colour (NC)

$lab^*lrij$  0.971 -0.164 0.472

$lab^*ice$  0.75 0.5 0.304

$lab^*nCE$  0.0 0.5 j21g

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*ice$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.0 0.0 (1.0)  
 $cmy3^*$  1.0 1.0 1.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.0  
 $cmy4^*$  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)

$lab^*lrij$  0.0 0.0 0.0

$lab^*ice$  0.0 0.0 -

$lab^*nCE$  1.0 0.0 -

$n^* = 1,0$

### TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	76.43	26.27	10.57	28.32	22
Y <sub>Ma</sub>	93.93	-10.76	34.63	36.27	107
L <sub>Ma</sub>	89.32	-35.8	27.64	45.24	142
C <sub>Ma</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>Ma</sub>	72.1	15.76	-35.63	38.97	294
M <sub>Ma</sub>	78.5	37.52	-25.23	45.22	326
N <sub>Ma</sub>	69.7	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

$n^* = 0,00$

$n^* = 0,00$

chromaticness  $c^*$

### Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 103/360 = 0.286$

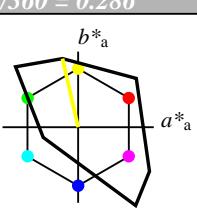
$lab^*tch$  and  $lab^*nch$

D65: hue Y

LCH\*Ma: 93 93 103

olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

$n^* = 0,00$

$n^* = 0,00$

chromaticness  $c^*$

### TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
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	306
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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

$n^* = 1,0$

$n^* = 1,0$

chromaticness  $c^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
Y <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
L <sub>Ma</sub>	50.0	93.06	102.85	102.85	102.85
C <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
V <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
M <sub>Ma</sub>	25.01	46.53	102.85	102.85	102.85
N <sub>Ma</sub>	0.0	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

$n^* = 1,0$

$n^* = 1,0$

chromaticness  $c^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
Y <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
L <sub>Ma</sub>	50.0	93.06	102.85	102.85	102.85
C <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
V <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
M <sub>Ma</sub>	25.01	46.53	102.85	102.85	102.85
N <sub>Ma</sub>	0.0	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

$n^* = 1,0$

$n^* = 1,0$

chromaticness  $c^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
Y <sub>Ma</sub>	92.65	-20.69	90.75	93.08	103
L <sub>Ma</sub>	50.0	93.06	102.85	102.85	102.85
C <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
V <sub>Ma</sub>	46.34	-10.34	45.37	45.37	45.37
M <sub>Ma</sub>	25.01	46.53	102.85	102.85	102.85
N <sub>Ma</sub>	0.0	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

$n^* = 1,0$

$n^* = 1,0$

chromaticness  $c^*$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$





<tbl\_r cells="6" ix="5" maxcspan="



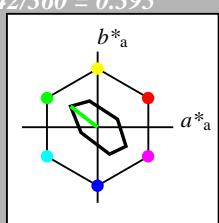
Input: Colorimetric Television Luminous System TLS70  
for hue  $h^* = lab^*h = 142/360 = 0.395$   
 $lab^*tch$  and  $lab^*nch$

D65: hue L

LCH\*Ma: 89 45 142

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  0.5 1.0 0.5 1.0  
 $cmy4^*$  0.5 0.0 0.5 0.0

standard and adapted CIELAB

$LAB^*LAB$  92.36 -17.89 13.82

$LAB^*LABa$  92.36 -17.89 13.82

$LAB^*TChA$  75.0 22.61 142.34

relative CIELAB lab\*

$lab^*lab$  0.881 -0.395 0.305

$lab^*tch$  0.75 0.5 0.395

$lab^*nch$  0.0 0.5 0.395

relative Natural Colour (NC)

$lab^*lrij$  0.881 -0.45 0.216

$lab^*tce$  0.75 0.5 0.429

$lab^*ncE$  0.0 0.5 j71g

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.5 0.0 (1.0)

$cmy3^*$  1.0 0.5 1.0 (0.0)

$olv_i4^*$  0.5 1.0 0.5 0.5

$cmy4^*$  0.5 0.0 0.5 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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*ncE$  0.5 0.0 -

$n^* = 1,0$

Input: Colorimetric Television Luminous System TLS70

for hue  $h^* = lab^*h = 142/360 = 0.395$

$lab^*tch$  and  $lab^*nch$

D65: hue L

LCH\*Ma: 89 45 142

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 1.0 1.0 (1.0)

$cmy3^*$  0.0 0.0 0.0 (0.0)

$olv_i4^*$  1.0 1.0 1.0 1.0

$cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  0.0 1.0 0.0 1.0

$cmy4^*$  0.0 0.0 0.5 0.0

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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*ncE$  0.5 0.0 -

$n^* = 1,0$

$n^* = 0,00$

blackness  $n^*$   
 $n^* = 0,00$   
 $n^* = 0,50$   
 $n^* = 0,50$

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

Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 136/360 = 0.378$

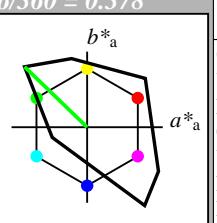
$lab^*tch$  and  $lab^*nch$

D65: hue L

LCH\*Ma: 84 115 136

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



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

relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 0.01 -

relative CIELAB lab\*

$lab^*lab$  1.0 0.0 0.0

$lab^*tch$  1.0 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  0.0 1.0 0.0 1.0

$cmy4^*$  0.0 0.0 0.5 0.0

standard and adapted CIELAB

$LAB^*LAB$  89.51 0.0 0.0

$LAB^*LABa$  89.51 0.0 0.0

$LAB^*TChA$  50.0 0.01 -

relative CIELAB lab\*

$lab^*lab$  0.5 0.0 0.0

$lab^*tch$  0.5 0.0 -

$lab^*nch$  1.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*ncE$  1.0 0.0 -

$n^* = 1,0$

relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 0.01 -

relative CIELAB lab\*

$lab^*lab$  1.0 0.0 0.0

$lab^*tch$  1.0 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  0.0 1.0 0.0 1.0

$cmy4^*$  0.0 0.0 0.5 0.0

standard and adapted CIELAB

$LAB^*LAB$  89.51 0.0 0.0

$LAB^*LABa$  89.51 0.0 0.0

$LAB^*TChA$  50.0 0.01 -

relative CIELAB lab\*

$lab^*lab$  0.5 0.0 0.0

$lab^*tch$  0.5 0.0 -

$lab^*nch$  1.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*ncE$  1.0 0.0 -

$n^* = 1,0$

$n^* = 0,00$

blackness  $n^*$

0,25 0,50 0,75 1,00

chromaticness  $c^*$

NE180-7, 3 step scales for constant CIELAB hue 142/360 = 0.395 (left)

3 step scales for constant CIELAB hue 136/360 = 0.378 (right)

input:  $olv^* setrgbcolor$

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

BAM-test chart NE18; Colorimetric systems TLS70 & TLS00

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

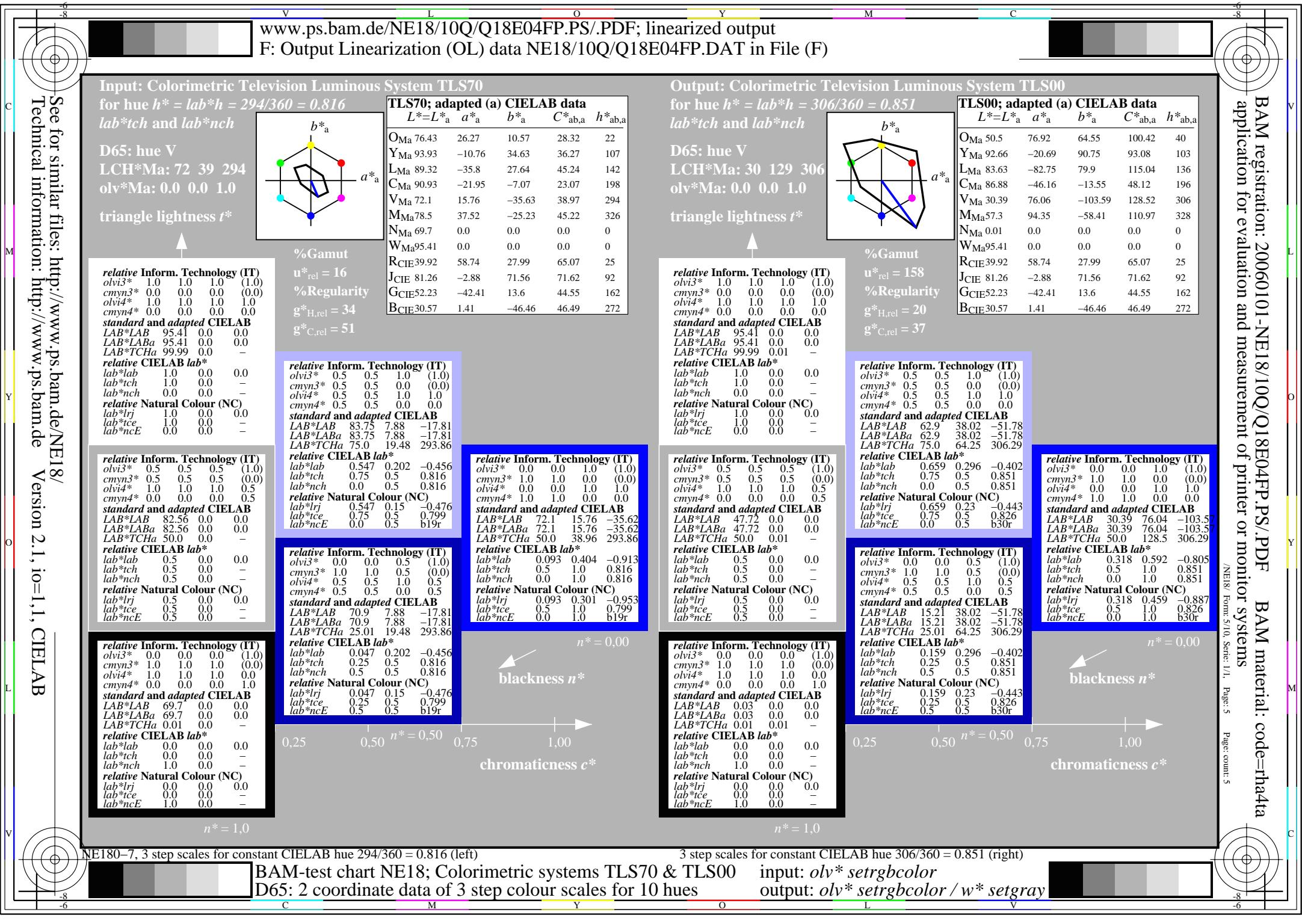
BAM registration: 20060101-NE18/10Q/Q18E02FP.PS/.PDF

application for evaluation and measurement of printer or monitor systems

N/E18/ Form 3/10, Serie: 1/1, Page: 3

Page: count: 3





**Input: Colorimetric Television Luminous System TLS70**

for hue  $h^* = lab^*h = 326/360 = 0.906$

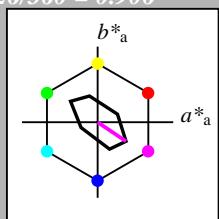
$lab^*tch$  and  $lab^*nch$

D65: hue M

LCH\*Ma: 79 45 326

olv\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*ncE$  0.5 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.0 0.0 (1.0)  
 $cmy3^*$  1.0 1.0 1.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.0  
 $cmy4^*$  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)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*ncE$  1.0 0.0 -

$n^* = 1,0$

**TLS70; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	76.43	26.27	10.57	28.32	22
Y <sub>Ma</sub>	93.93	-10.76	34.63	36.27	107
L <sub>Ma</sub>	89.32	-35.8	27.64	45.24	142
C <sub>Ma</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>Ma</sub>	72.1	15.76	-35.63	38.97	294
M <sub>Ma</sub>	78.5	37.52	-25.23	45.22	326
N <sub>Ma</sub>	69.7	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 0.5 1.0 (1.0)

$cmy3^*$  0.0 0.5 0.0 (0.0)

$olv_i4^*$  1.0 0.5 1.0 1.0

$cmy4^*$  0.0 0.5 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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.0 1.0 0.5

$cmy4^*$  0.0 0.0 0.0 0.5

standard and adapted CIELAB

$LAB^*LAB$  86.95 18.76 -12.61

$LAB^*LABa$  86.95 18.76 -12.61

$LAB^*TChA$  75.0 22.61 326.07

relative CIELAB lab\*

$lab^*lab$  0.671 0.415 -0.278

$lab^*tch$  0.75 0.5 0.906

$lab^*nch$  0.0 0.5 0.906

relative Natural Colour (NC)

$lab^*lrij$  0.671 0.341 -0.365

$lab^*tce$  0.75 0.5 0.869

$lab^*ncE$  0.0 0.5 b47r

$n^* = 0,00$

blackness  $n^*$

$n^* = 0,50$

$n^* = 1,00$

chromaticness  $c^*$

**Output: Colorimetric Television Luminous System TLS00**

for hue  $h^* = lab^*h = 328/360 = 0.912$

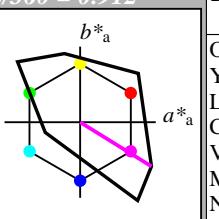
$lab^*tch$  and  $lab^*nch$

D65: hue M

LCH\*Ma: 57 111 328

olv\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 0.5 1.0 (1.0)

$cmy3^*$  0.0 0.5 0.0 (0.0)

$olv_i4^*$  1.0 0.5 1.0 1.0

$cmy4^*$  0.0 0.5 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 0.01

relative CIELAB lab\*

$lab^*lab$  1.0 0.0 0.0

$lab^*tch$  1.0 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.5 1.0 0.5

$cmy4^*$  0.0 0.5 0.0 0.5

standard and adapted CIELAB

$LAB^*LAB$  76.35 47.17 -29.19

$LAB^*LABa$  76.35 47.17 -29.19

$LAB^*TChA$  75.0 55.47 328.23

relative CIELAB lab\*

$lab^*lab$  0.8 0.425 -0.262

$lab^*tch$  0.75 0.5 0.912

$lab^*nch$  0.0 0.5 0.912

relative Natural Colour (NC)

$lab^*lrij$  0.8 0.352 -0.354

$lab^*tce$  0.75 0.5 0.874

$lab^*ncE$  0.0 0.5 b49r

$n^* = 0,00$

blackness  $n^*$

$n^* = 0,50$

$n^* = 1,00$

chromaticness  $c^*$

input:  $olv^* setrgbcolor$

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

BAM-test chart NE18; Colorimetric systems TLS70 & TLS00

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

NE180-7, 3 step scales for constant CIELAB hue 326/360 = 0.906 (left)

3 step scales for constant CIELAB hue 328/360 = 0.912 (right)

input:  $olv^* setrgbcolor$

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



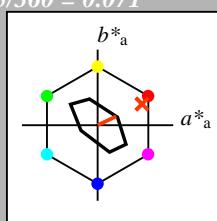
Input: Colorimetric Television Luminous System TLS70  
for hue  $h^* = lab^*h = 25/360 = 0.071$   
 $lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 77 27 25

olv\*Ma: 1.0 0.05 0.0

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.0 0.0 (1.0)  
 $cmy3^*$  1.0 1.0 1.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.0  
 $cmy4^*$  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)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*nCE$  1.0 0.0 -

$n^* = 1,0$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_{-a}$	$b^*_{-a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	76.43	26.27	10.57	28.32	22
Y <sub>Ma</sub>	93.93	-10.76	34.63	36.27	107
L <sub>Ma</sub>	89.32	-35.8	27.64	45.24	142
C <sub>Ma</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>Ma</sub>	72.1	15.76	-35.63	38.97	294
M <sub>Ma</sub>	78.5	37.52	-25.23	45.22	326
N <sub>Ma</sub>	69.7	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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 1.0 1.0 (1.0)

$cmy3^*$  0.0 0.0 0.0 (0.0)

$olv_i4^*$  1.0 1.0 1.0 1.0

$cmy4^*$  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 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmy3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 1.0 1.0 0.5

$cmy4^*$  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)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,25$

$n^* = 0,50$

$c^* = 0,75$

$n^* = 1,00$

chromaticness  $c^*$

Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 25/360 = 0.071$

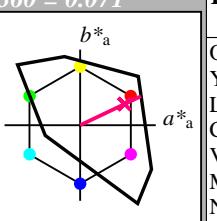
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 52 89 25

olv\*Ma: 1.0 0.0 0.21

triangle lightness  $t^*$



relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmy3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 1.0  
 $cmy4^*$  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 0.01

relative CIELAB lab\*

$lab^*lab$  1.0 0.0 0.0

$lab^*tch$  1.0 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 -

$lab^*nCE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmy3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmy4^*$  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 0.01

relative CIELAB lab\*

$lab^*lab$  0.5 0.0 0.0

$lab^*tch$  0.5 0.0 -

$lab^*nch$  0.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  0.5 0.0 0.0

$lab^*tce$  0.5 0.0 -

$lab^*nCE$  0.5 0.0 -

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,25$

$n^* = 0,50$

$c^* = 0,75$

$n^* = 1,00$

	$L^*=L^*_a$	$a^*_{-a}$	$b^*_{-a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
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	306
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	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

	$L^*=L^*_a$	$a^*_{-a}$	$b^*_{-a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	51.94	80.61	38.42		
Y <sub>Ma</sub>	51.94	80.61	38.42		
L <sub>Ma</sub>	73.67	40.3	19.2		
C <sub>Ma</sub>	73.67	40.3	19.2		
V <sub>Ma</sub>	50.0	44.64	25.47		
M <sub>Ma</sub>	50.0	49.29	25.48		
N <sub>Ma</sub>	0.0	0.0	0.0		
W <sub>Ma</sub>	0.0	0.0	0.0		
R <sub>CIE</sub>	25.98	40.3	19.21		
J <sub>CIE</sub>	25.98	40.3	19.21		
G <sub>CIE</sub>	25.01	44.65	25.49		
B <sub>CIE</sub>	0.0	0.0	0.0		

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.0 0.213 (1.0)

$cmy3^*$  0.0 1.0 0.787 (0.0)

$olv_i4^*$  1.0 0.0 0.213 1.0

$cmy4^*$  0.0 1.0 0.787 0.0

standard and adapted CIELAB

$LAB^*LAB$  51.94 0.0 0.0

$LAB^*LABa$  51.94 0.0 0.0

$LAB^*TChA$  50.0 0.0 0.01

relative CIELAB lab\*

$lab^*lab$  0.544 0.903 0.43

$lab^*tch$  0.5 1.0 0.071

$lab^*nch$  0.0 1.0 0.071

relative Natural Colour (NC)

$lab^*lrij$  0.544 1.0 0.0

$lab^*tce$  0.5 1.0 0.0

$lab^*nCE$  0.0 1.0 0.00

$n^* = 0,00$





