

Input: Colorimetric Television Luminous System TLS70

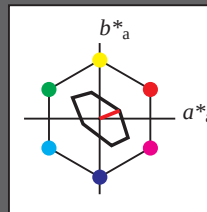
for hue $h^* = lab \cdot h = 22/360 = 0.061$

$lab \cdot tch$ and $lab \cdot nch$

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

triangle lightness

1,00



%Gamut

$u^*_{rel} = 16$

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

%Regularity

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

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

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	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*Lab	95.41	0.0	0.0		
LAB*TCh	98.99	0.0	0.0		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
lab*tce	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	88.98	0.0	0.0		
LAB*Lab	88.98	0.0	0.0		
LAB*TCh	75.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	82.56	0.0	0.0		
LAB*Lab	82.56	0.0	0.0		
LAB*TCh	50.0	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	77.91	6.57	2.64		
LAB*Lab	77.91	6.57	2.64		
LAB*TCh	37.5	7.08	21.92		
relative CIELAB lab*					
lab*lab	0.25	0.25	0.25		
lab*tch	0.25	0.25	0.25		
lab*nch	0.25	0.25	0.25		
lab*trj	0.25	0.25	0.25		
lab*tce	0.25	0.25	0.25		
lab*nce	0.25	0.25	0.25		

relative Inform. Technology (IT)					
olvi3*	0.1	0.1	0.1	(1.0)	
cmyn3*	0.1	0.1	0.1	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	71.38	6.56	2.64		
LAB*Lab	71.38	6.56	2.64		
LAB*TCh	12.5	7.08	21.92		
relative CIELAB lab*					
lab*lab	0.1	0.1	0.1		
lab*tch	0.1	0.1	0.1		
lab*nch	0.1	0.1	0.1		
lab*trj	0.1	0.1	0.1		
lab*tce	0.1	0.1	0.1		
lab*nce	0.1	0.1	0.1		

relative Inform. Technology (IT)					
olvi3*	0.05	0.05	0.05	(1.0)	
cmyn3*	0.05	0.05	0.05	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.05	0.05	0.05		
lab*tch	0.05	0.05	0.05		
lab*nch	0.05	0.05	0.05		
lab*trj	0.05	0.05	0.05		
lab*tce	0.05	0.05	0.05		
lab*nce	0.05	0.05	0.05		

relative Inform. Technology (IT)					
olvi3*	0.025	0.025	0.025	(1.0)	
cmyn3*	0.025	0.025	0.025	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.025	0.025	0.025		
lab*tch	0.025	0.025	0.025		
lab*nch	0.025	0.025	0.025		
lab*trj	0.025	0.025	0.025		
lab*tce	0.025	0.025	0.025		
lab*nce	0.025	0.025	0.025		

relative Inform. Technology (IT)					
olvi3*	0.01	0.01	0.01	(1.0)	
cmyn3*	0.01	0.01	0.01	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.01	0.01	0.01		
lab*tch	0.01	0.01	0.01		
lab*nch	0.01	0.01	0.01		
lab*trj	0.01	0.01	0.01		
lab*tce	0.01	0.01	0.01		
lab*nce	0.01	0.01	0.01		

relative Inform. Technology (IT)					
olvi3*	0.005	0.005	0.005	(1.0)	
cmyn3*	0.005	0.005	0.005	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.005	0.005	0.005		
lab*tch	0.005	0.005	0.005		
lab*nch	0.005	0.005	0.005		
lab*trj	0.005	0.005	0.005		
lab*tce	0.005	0.005	0.005		
lab*nce	0.005	0.005	0.005		

relative Inform. Technology (IT)					
olvi3*	0.001	0.001	0.001	(1.0)	
cmyn3*	0.001	0.001	0.001	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.001	0.001	0.001		
lab*tch	0.001	0.001	0.001		
lab*nch	0.001	0.001	0.001		
lab*trj	0.001	0.001	0.001		
lab*tce	0.001	0.001	0.001		
lab*nce	0.001	0.001	0.001		

relative Inform. Technology (IT)					
olvi3*	0.0005	0.0005	0.0005	(1.0)	
cmyn3*	0.0005	0.0005	0.0005	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0005	0.0005	0.0005		
lab*tch	0.0005	0.0005	0.0005		
lab*nch	0.0005	0.0005	0.0005		
lab*trj	0.0005	0.0005	0.0005		
lab*tce	0.0005	0.0005	0.0005		
lab*nce	0.0005	0.0005	0.0005		

relative Inform. Technology (IT)					
olvi3*	0.0001	0.0001	0.0001	(1.0)	
cmyn3*	0.0001	0.0001	0.0001	(0.0)	
olvi4*	1.0	1.0	1.0	(1.0)	
cmyn4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	69.7	0.0	0.0		
LAB*Lab	69.7	0.0	0.0		
LAB*TCh	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0001	0.0001	0.0001		
lab*tch	0.0001	0.0001	0.0001		
lab*nch	0.0001	0.0001	0.0001		
lab*trj	0.0001	0.0001	0.0001		
lab*tce	0.0001	0.0001	0.0001		
lab*nce	0.0001	0.0001	0.0001		

5 step scales for constant CIELAB hue 22/360 = 0.061 (right)

input: $cmv0^* \text{ setcmvcolor}$
output: $cmv0^* / 000n^* \text{ setcmvcolor}$

OE490-7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70
D65: 5 step colour scales and coordinate data for 10 hues

$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

$n^* = 0,00$

<

Input: Colorimetric Television Luminous System TLS70

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

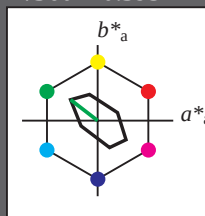
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 142/360 = 0.395 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

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

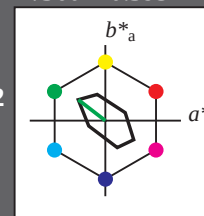
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness



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

%Regularity

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

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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

5 step scales for constant CIELAB hue 142/360 = 0.395 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

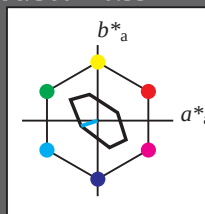
Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 198/360 = 0.55$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

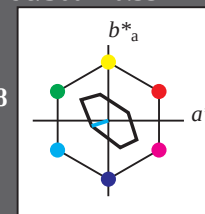
Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 198/360 = 0.55$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

triangle lightness



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
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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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

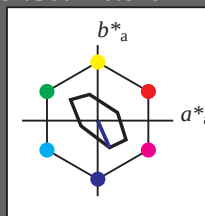
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

$n^* = 1,0$

OE490-7, 5 step scales for constant CIELAB hue 294/360 = 0.816 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

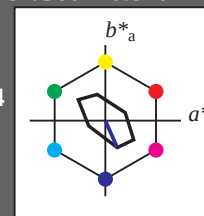
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness



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
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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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

$n^* = 1,0$

5 step scales for constant CIELAB hue 294/360 = 0.816 (right)

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$

Input: Colorimetric Television Luminous System TLS70

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

$lab \cdot tch$ and $lab \cdot nch$

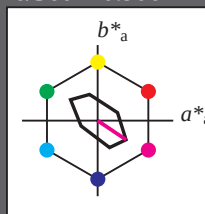
D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 16$

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

%Regularity

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

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

1,00

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 1.0 1.0 1.0 (1.0)	lab*lab 1.0 0.0 0.0	lab*trj 1.0 0.0 0.0
cmyn3* 0.0 0.0 0.0 (0.0)	lab*tch 1.0 0.0 0.0	lab*nce 1.0 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.0 0.0 0.0	
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*LABb 95.41 0.0 0.0		
LAB*LABc 95.41 0.0 0.0		
LAB*LABd 95.41 0.0 0.0		
LAB*LABe 95.41 0.0 0.0		
LAB*LABf 95.41 0.0 0.0		
LAB*LABg 95.41 0.0 0.0		
LAB*LABh 95.41 0.0 0.0		
LAB*LABi 95.41 0.0 0.0		
LAB*LABj 95.41 0.0 0.0		
LAB*LABk 95.41 0.0 0.0		
LAB*LABl 95.41 0.0 0.0		
LAB*LABm 95.41 0.0 0.0		
LAB*LABn 95.41 0.0 0.0		
LAB*LABo 95.41 0.0 0.0		
LAB*LABp 95.41 0.0 0.0		
LAB*LABq 95.41 0.0 0.0		
LAB*LABr 95.41 0.0 0.0		
LAB*LABs 95.41 0.0 0.0		
LAB*LABt 95.41 0.0 0.0		
LAB*LABu 95.41 0.0 0.0		
LAB*LABv 95.41 0.0 0.0		
LAB*LABw 95.41 0.0 0.0		
LAB*LABx 95.41 0.0 0.0		
LAB*LABy 95.41 0.0 0.0		
LAB*LABz 95.41 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 1.0 1.0 1.0 (1.0)	lab*lab 1.0 0.0 0.0	lab*trj 1.0 0.0 0.0
cmyn3* 0.0 0.0 0.0 (0.0)	lab*tch 1.0 0.0 0.0	lab*nce 1.0 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.0 0.0 0.0	
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*LABb 95.41 0.0 0.0		
LAB*LABc 95.41 0.0 0.0		
LAB*LABd 95.41 0.0 0.0		
LAB*LABe 95.41 0.0 0.0		
LAB*LABf 95.41 0.0 0.0		
LAB*LABg 95.41 0.0 0.0		
LAB*LABh 95.41 0.0 0.0		
LAB*LABi 95.41 0.0 0.0		
LAB*LABj 95.41 0.0 0.0		
LAB*LABk 95.41 0.0 0.0		
LAB*LABl 95.41 0.0 0.0		
LAB*LABm 95.41 0.0 0.0		
LAB*LABn 95.41 0.0 0.0		
LAB*LABo 95.41 0.0 0.0		
LAB*LABp 95.41 0.0 0.0		
LAB*LABq 95.41 0.0 0.0		
LAB*LABr 95.41 0.0 0.0		
LAB*LABs 95.41 0.0 0.0		
LAB*LABt 95.41 0.0 0.0		
LAB*LABu 95.41 0.0 0.0		
LAB*LABv 95.41 0.0 0.0		
LAB*LABw 95.41 0.0 0.0		
LAB*LABx 95.41 0.0 0.0		
LAB*LABy 95.41 0.0 0.0		
LAB*LABz 95.41 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.75 0.75 0.75 (1.0)	lab*lab 0.75 0.0 0.0	lab*trj 0.75 0.0 0.0
cmyn3* 0.25 0.25 0.25 (0.0)	lab*tch 0.75 0.0 0.0	lab*nce 0.75 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.25 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 88.98 0.0 0.0		
LAB*LABa 88.98 0.0 0.0		
LAB*LABb 88.98 0.0 0.0		
LAB*LABc 88.98 0.0 0.0		
LAB*LABd 88.98 0.0 0.0		
LAB*LABe 88.98 0.0 0.0		
LAB*LABf 88.98 0.0 0.0		
LAB*LABg 88.98 0.0 0.0		
LAB*LABh 88.98 0.0 0.0		
LAB*LABi 88.98 0.0 0.0		
LAB*LABj 88.98 0.0 0.0		
LAB*LABk 88.98 0.0 0.0		
LAB*LABl 88.98 0.0 0.0		
LAB*LABm 88.98 0.0 0.0		
LAB*LABn 88.98 0.0 0.0		
LAB*LABo 88.98 0.0 0.0		
LAB*LABp 88.98 0.0 0.0		
LAB*LABq 88.98 0.0 0.0		
LAB*LABr 88.98 0.0 0.0		
LAB*LABs 88.98 0.0 0.0		
LAB*LABt 88.98 0.0 0.0		
LAB*LABu 88.98 0.0 0.0		
LAB*LABv 88.98 0.0 0.0		
LAB*LABw 88.98 0.0 0.0		
LAB*LABx 88.98 0.0 0.0		
LAB*LABy 88.98 0.0 0.0		
LAB*LABz 88.98 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.5 0.5 0.5 (1.0)	lab*lab 0.5 0.0 0.0	lab*trj 0.5 0.0 0.0
cmyn3* 0.5 0.5 0.5 (0.0)	lab*tch 0.5 0.0 0.0	lab*nce 0.5 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.5 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 82.56 0.0 0.0		
LAB*LABa 82.56 0.0 0.0		
LAB*LABb 82.56 0.0 0.0		
LAB*LABc 82.56 0.0 0.0		
LAB*LABd 82.56 0.0 0.0		
LAB*LABe 82.56 0.0 0.0		
LAB*LABf 82.56 0.0 0.0		
LAB*LABg 82.56 0.0 0.0		
LAB*LABh 82.56 0.0 0.0		
LAB*LABi 82.56 0.0 0.0		
LAB*LABj 82.56 0.0 0.0		
LAB*LABk 82.56 0.0 0.0		
LAB*LABl 82.56 0.0 0.0		
LAB*LABm 82.56 0.0 0.0		
LAB*LABn 82.56 0.0 0.0		
LAB*LABo 82.56 0.0 0.0		
LAB*LABp 82.56 0.0 0.0		
LAB*LABq 82.56 0.0 0.0		
LAB*LABr 82.56 0.0 0.0		
LAB*LABs 82.56 0.0 0.0		
LAB*LABt 82.56 0.0 0.0		
LAB*LABu 82.56 0.0 0.0		
LAB*LABv 82.56 0.0 0.0		
LAB*LABw 82.56 0.0 0.0		
LAB*LABx 82.56 0.0 0.0		
LAB*LABy 82.56 0.0 0.0		
LAB*LABz 82.56 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.25 0.25 0.25 (1.0)	lab*lab 0.25 0.0 0.0	lab*trj 0.25 0.0 0.0
cmyn3* 0.25 0.25 0.25 (0.0)	lab*tch 0.25 0.0 0.0	lab*nce 0.25 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.25 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 76.13 0.0 0.0		
LAB*LABa 76.13 0.0 0.0		
LAB*LABb 76.13 0.0 0.0		
LAB*LABc 76.13 0.0 0.0		
LAB*LABd 76.13 0.0 0.0		
LAB*LABe 76.13 0.0 0.0		
LAB*LABf 76.13 0.0 0.0		
LAB*LABg 76.13 0.0 0.0		
LAB*LABh 76.13 0.0 0.0		
LAB*LABi 76.13 0.0 0.0		
LAB*LABj 76.13 0.0 0.0		
LAB*LABk 76.13 0.0 0.0		
LAB*LABl 76.13 0.0 0.0		
LAB*LABm 76.13 0.0 0.0		
LAB*LABn 76.13 0.0 0.0		
LAB*LABo 76.13 0.0 0.0		
LAB*LABp 76.13 0.0 0.0		
LAB*LABq 76.13 0.0 0.0		
LAB*LABr 76.13 0.0 0.0		
LAB*LABs 76.13 0.0 0.0		
LAB*LABt 76.13 0.0 0.0		
LAB*LABu 76.13 0.0 0.0		
LAB*LABv 76.13 0.0 0.0		
LAB*LABw 76.13 0.0 0.0		
LAB*LABx 76.13 0.0 0.0		
LAB*LABy 76.13 0.0 0.0		
LAB*LABz 76.13 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.0 0.0 0.0 (1.0)	lab*lab 0.0 0.0 0.0	lab*trj 0.0 0.0 0.0
cmyn3* 0.0 0.0 0.0 (0.0)	lab*tch 0.0 0.0 0.0	lab*nce 0.0 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.0 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 69.7 0.0 0.0		
LAB*LABa 69.7 0.0 0.0		
LAB*LABb 69.7 0.0 0.0		
LAB*LABc 69.7 0.0 0.0		
LAB*LABd 69.7 0.0 0.0		
LAB*LABe 69.7 0.0 0.0		
LAB*LABf 69.7 0.0 0.0		
LAB*LABg 69.7 0.0 0.0		
LAB*LABh 69.7 0.0 0.0		
LAB*LABi 69.7 0.0 0.0		
LAB*LABj 69.7 0.0 0.0		
LAB*LABk 69.7 0.0 0.0		
LAB*LABl 69.7 0.0 0.0		
LAB*LABm 69.7 0.0 0.0		
LAB*LABn 69.7 0.0 0.0		
LAB*LABo 69.7 0.0 0.0		
LAB*LABp 69.7 0.0 0.0		
LAB*LABq 69.7 0.0 0.0		
LAB*LABr 69.7 0.0 0.0		
LAB*LABs 69.7 0.0 0.0		
LAB*LABt 69.7 0.0 0.0		
LAB*LABu 69.7 0.0 0.0		
LAB*LABv 69.7 0.0 0.0		
LAB*LABw 69.7 0.0 0.0		
LAB*LABx 69.7 0.0 0.0		
LAB*LABy 69.7 0.0 0.0		
LAB*LABz 69.7 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.0 0.0 0.0 (1.0)	lab*lab 0.0 0.0 0.0	lab*trj 0.0 0.0 0.0
cmyn3* 0.0 0.0 0.0 (0.0)	lab*tch 0.0 0.0 0.0	lab*nce 0.0 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.0 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 69.7 0.0 0.0		
LAB*LABa 69.7 0.0 0.0		
LAB*LABb 69.7 0.0 0.0		
LAB*LABc 69.7 0.0 0.0		
LAB*LABd 69.7 0.0 0.0		
LAB*LABe 69.7 0.0 0.0		
LAB*LABf 69.7 0.0 0.0		
LAB*LABg 69.7 0.0 0.0		
LAB*LABh 69.7 0.0 0.0		
LAB*LABi 69.7 0.0 0.0		
LAB*LABj 69.7 0.0 0.0		
LAB*LABk 69.7 0.0 0.0		
LAB*LABl 69.7 0.0 0.0		
LAB*LABm 69.7 0.0 0.0		
LAB*LABn 69.7 0.0 0.0		
LAB*LABo 69.7 0.0 0.0		
LAB*LABp 69.7 0.0 0.0		
LAB*LABq 69.7 0.0 0.0		
LAB*LABr 69.7 0.0 0.0		
LAB*LABs 69.7 0.0 0.0		
LAB*LABt 69.7 0.0 0.0		
LAB*LABu 69.7 0.0 0.0		
LAB*LABv 69.7 0.0 0.0		
LAB*LABw 69.7 0.0 0.0		
LAB*LABx 69.7 0.0 0.0		
LAB*LABy 69.7 0.0 0.0		
LAB*LABz 69.7 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.0 0.0 0.0 (1.0)	lab*lab 0.0 0.0 0.0	lab*trj 0.0 0.0 0.0
cmyn3* 0.0 0.0 0.0 (0.0)	lab*tch 0.0 0.0 0.0	lab*nce 0.0 0.0 0.0
olvi4* 1.0 1.0 1.0 (1.0)	lab*nch 0.0 0.0 0.0	
cmyn4* 0.0 0.0 0.0 (0.0)		
standard and adapted CIELAB		
LAB*LAB 69.7 0.0 0.0		
LAB*LABa 69.7 0.0 0.0		
LAB*LABb 69.7 0.0 0.0		
LAB*LABc 69.7 0.0 0.0		
LAB*LABd 69.7 0.0 0.0		
LAB*LABe 69.7 0.0 0.0		
LAB*LABf 69.7 0.0 0.0		
LAB*LABg 69.7 0.0 0.0		
LAB*LABh 69.7 0.0 0.0		
LAB*LABi 69.7 0.0 0.0		
LAB*LABj 69.7 0.0 0.0		
LAB*LABk 69.7 0.0 0.0		
LAB*LABl 69.7 0.0 0.0		
LAB*LABm 69.7 0.0 0.0		
LAB*LABn 69.7 0.0 0.0		
LAB*LABo 69.7 0.0 0.0		
LAB*LABp 69.7 0.0 0.0		
LAB*LABq 69.7 0.0 0.0		
LAB*LABr 69.7 0.0 0.0		
LAB*LABs 69.7 0.0 0.0		
LAB*LABt 69.7 0.0 0.0		
LAB*LABu 69.7 0.0 0.0		
LAB*LABv 69.7 0.0 0.0		
LAB*LABw 69.7 0.0 0.0		
LAB*LABx 69.7 0.0 0.0		
LAB*LABy 69.7 0.0 0.0		
LAB*LABz 69.7 0.0 0.0		

relative Inform. Technology (IT)	relative CIELAB lab*	relative Natural Colour (NC)
olvi3* 0.0 0.0 0.0 (1.0)	lab*lab 0.0 0.0 0.0	lab*trj 0.0 0.0 0.0
cmyn3* 1.0 1.0 1.0 (0.0)	lab*tch 0.0 0.0 0.0	lab*nce 0.0 0.0 0.0
olvi4* 0.0 1.0 1.0 0.0	lab*nch 0.0 0.0 0.0	
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*LABb 69.7 0.0 0.0		
LAB*LABc 69.7 0.0 0.0		
LAB*LABd 69.7 0.0 0.0		
LAB*LABe 69.7 0.0 0.0		
LAB*LABf 69.7 0.0 0.0		
LAB*LABg 69.7 0.0 0.0		
LAB*LABh 69.7 0.0 0.0		
LAB*LABi 69.7 0.0 0.0		

Input: Colorimetric Television Luminous System TLS70

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

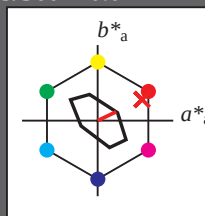
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

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

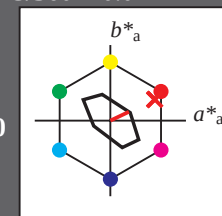
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness



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
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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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

input: $cmY0^* \text{ setcmYcolor}$

output: $cmY0^* / 000n^* \text{ setcmYcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 92/360 = 0.256$

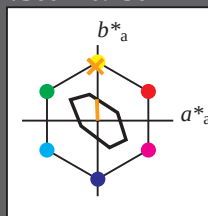
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 92/360 = 0.256$

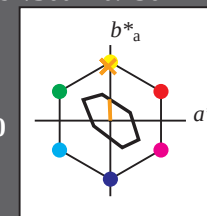
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness



%Gamut

$u^*_{rel} = 16$

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

%Regularity

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

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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

0,00

chromaticness c^*

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: $cmY0^* \text{ setcmYcolor}$

output: $cmY0^* / 000n^* \text{ setcmYcolor}$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 162/360 = 0.451$

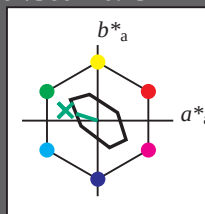
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness



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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

OE490-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 162/360 = 0.451$

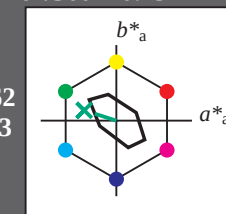
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness



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

%Regularity

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

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

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

$n^* = 1,0$

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

input: $cmv0^* \cdot setcmvcolor$

output: $cmv0^* / 000n^* \cdot setcmvcolor$

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 272/360 = 0.755$

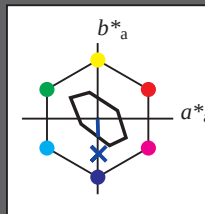
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0

triangle lightness



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
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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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

OE490-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



BAM-test chart OE49; Colorimetric systems TLS70 & TLS70

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 272/360 = 0.755$

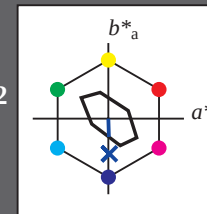
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0

triangle lightness



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
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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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

chromaticness c^*

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

input: $cmY0^* \text{ setcmykcolor}$

output: $cmY0^* / 000n^* \text{ setcmykcolor}$