

Input: Colorimetric Television Luminous System TLS00a

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

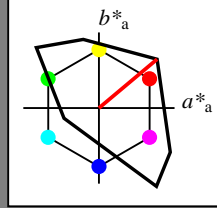
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

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

Output: Colorimetric Television Luminous System TLS00a

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

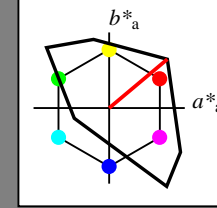
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

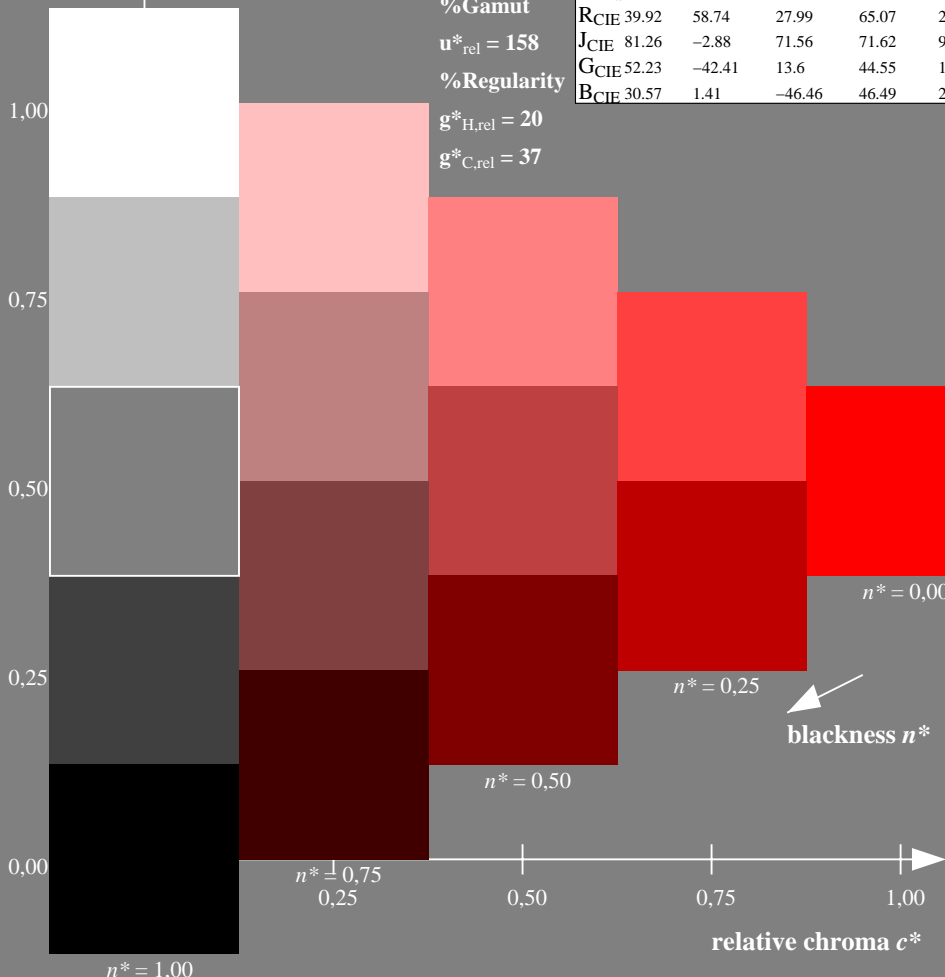
triangle lightness  $t^*$



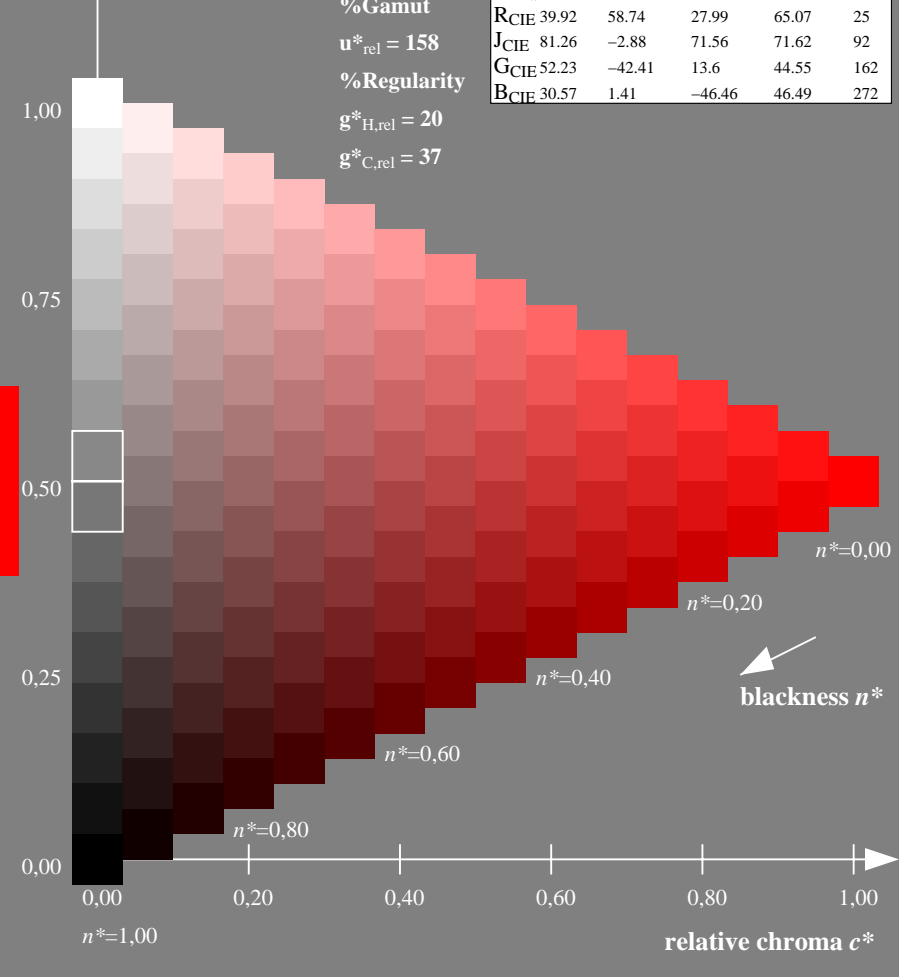
TLS00a; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
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OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)



16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy0$  ( $\rightarrow cmy0^*_d$ )  $setcmyk$   
 output 130-0:  $g_P=1.0$ ;  $g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

TUB registration: 20110801-OE73/OE73L0NA.TXT /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=thadata

Input: Colorimetric Television Luminous System TLS00a

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

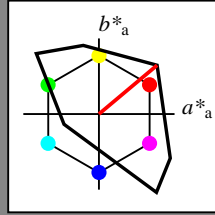
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triangle lightness  $t^*$



TLS00a; adapted (a) CIELAB data

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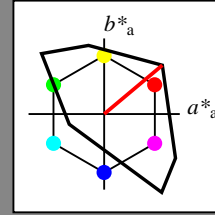
$lab^*tch$  and  $lab^*nch$

D65: hue O

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olv\*Ma: 1.0 0.0 0.0

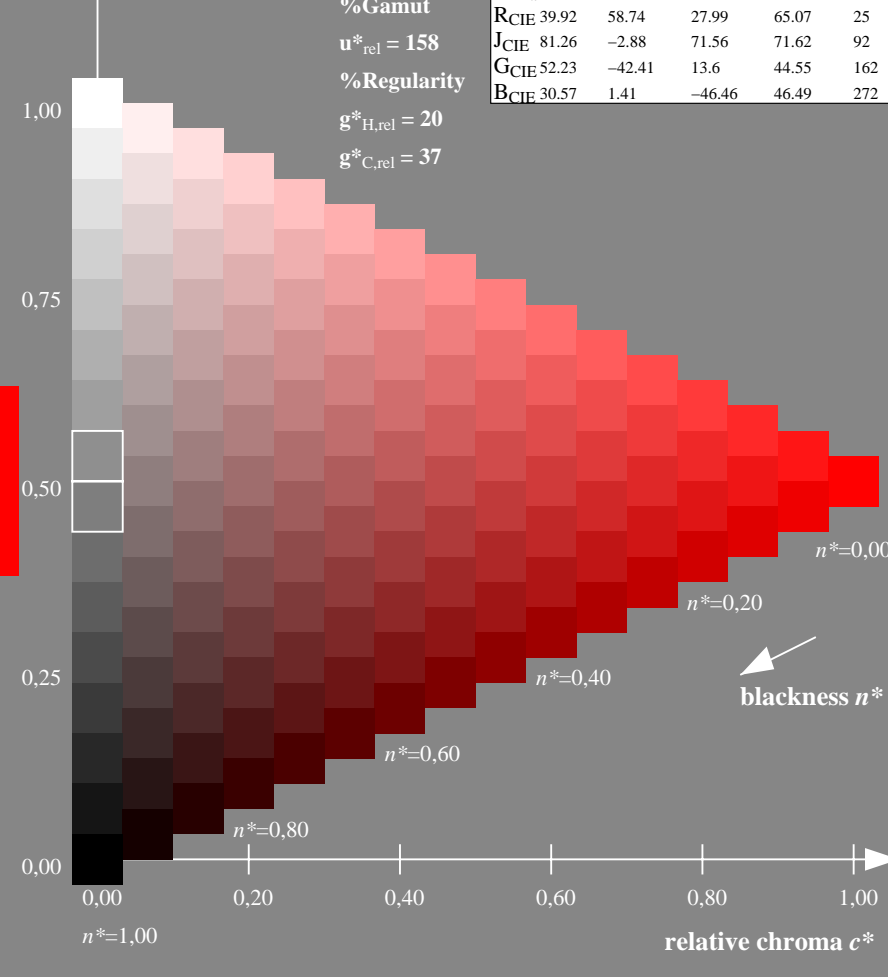
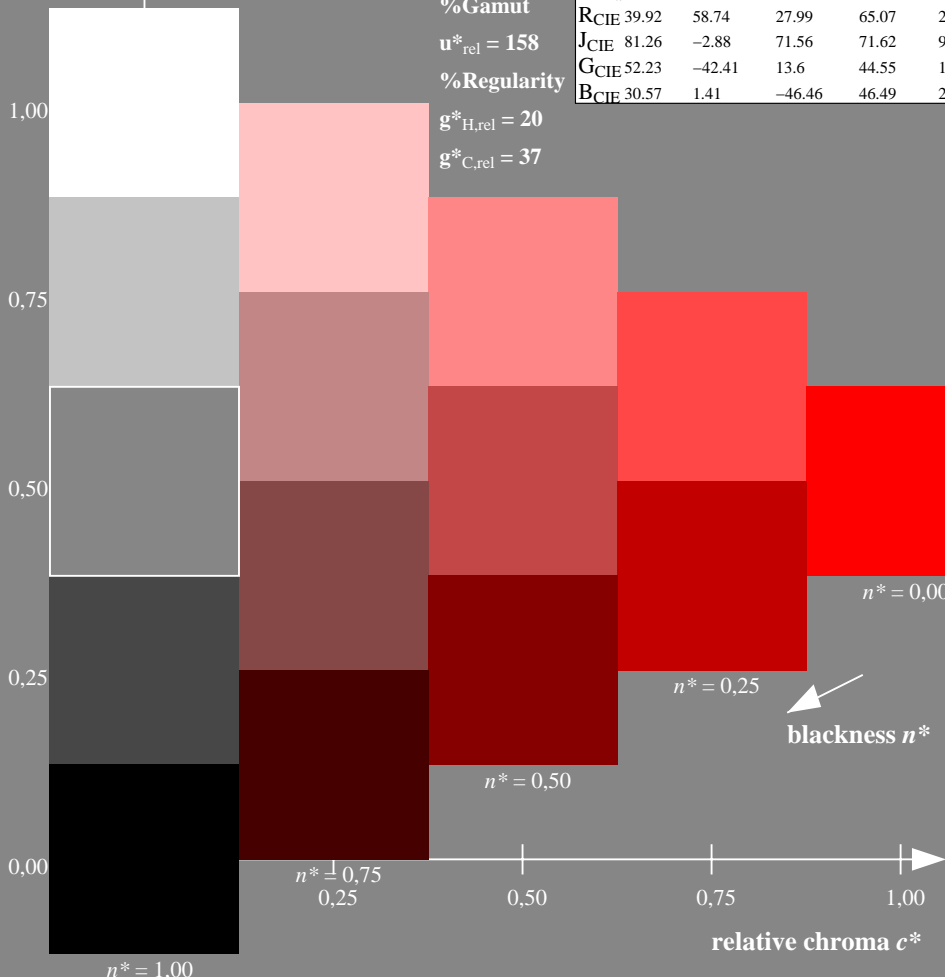
triangle lightness  $t^*$



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OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy0$  ( $\rightarrow cmy0^*_d$ )  $setcmyk$   
 output 131-0:  $g_P=0.92; g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

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Input: Colorimetric Television Luminous System TLS00a

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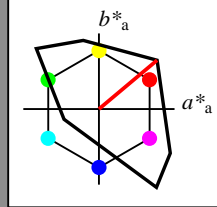
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; adapted (a) CIELAB data

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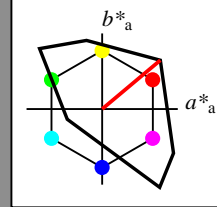
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

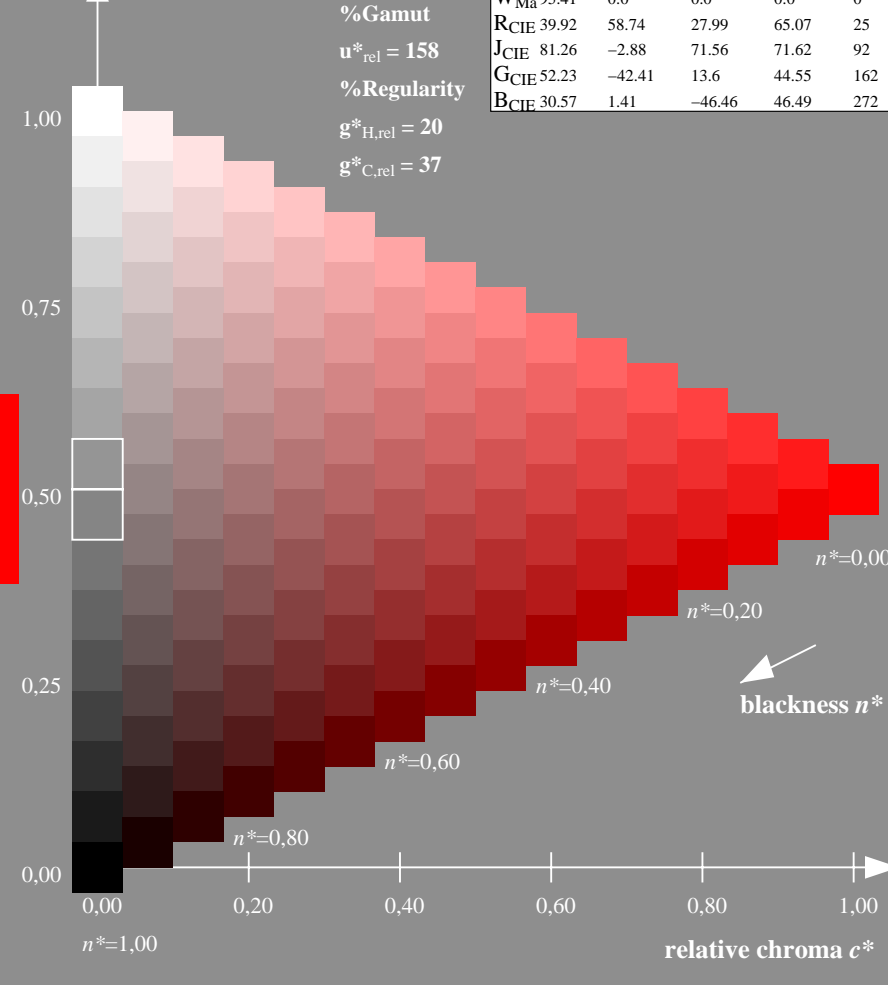
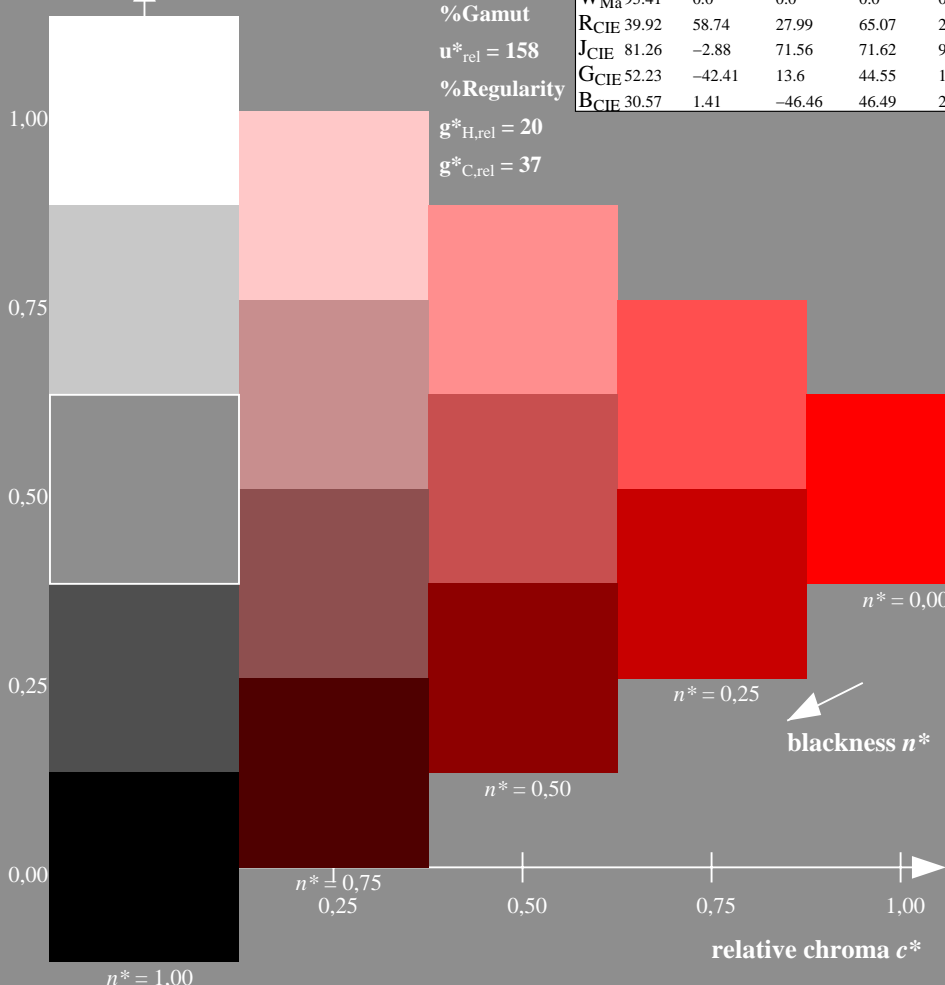
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; adapted (a) CIELAB data

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OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy_0$  ( $\rightarrow cmy_0^*_d$ )  $setcmyk$   
 output 132-0:  $g_P=0.85; g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

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 TUB material: code=thadata

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

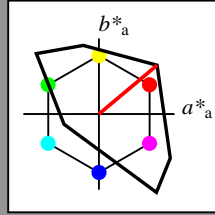
$lab^*tch$  and  $lab^*nch$

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LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; adapted (a) CIELAB data

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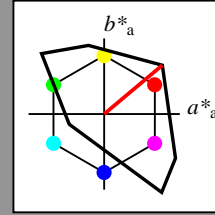
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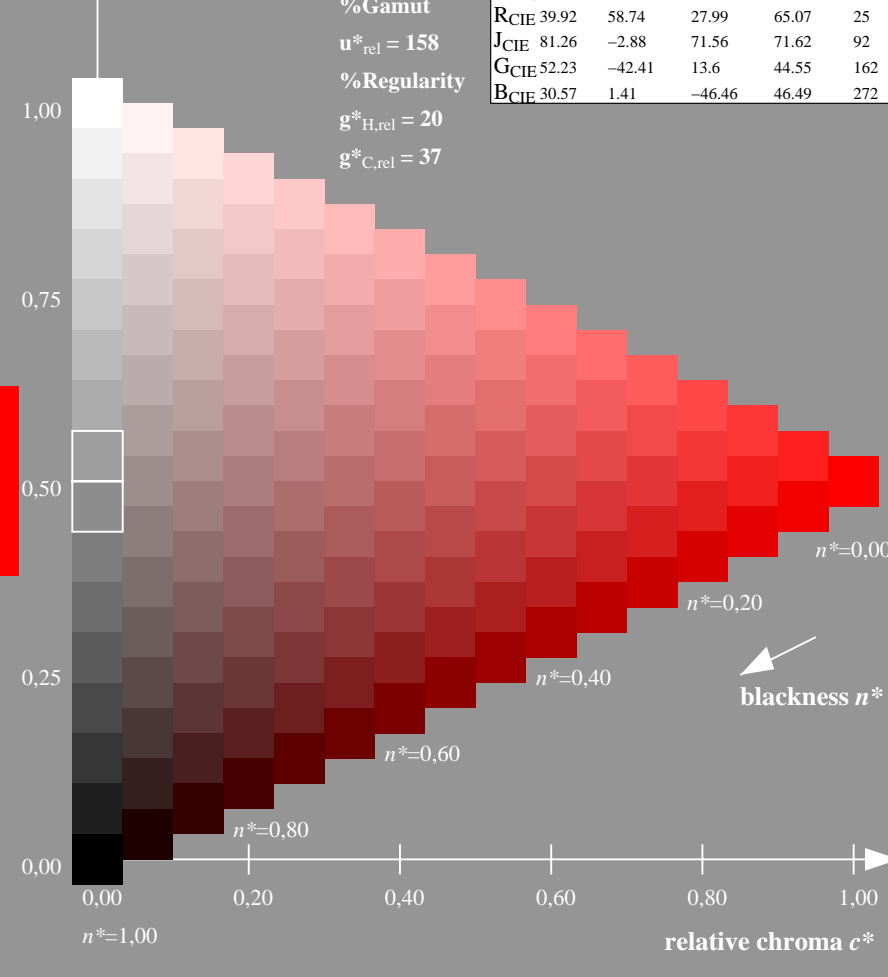
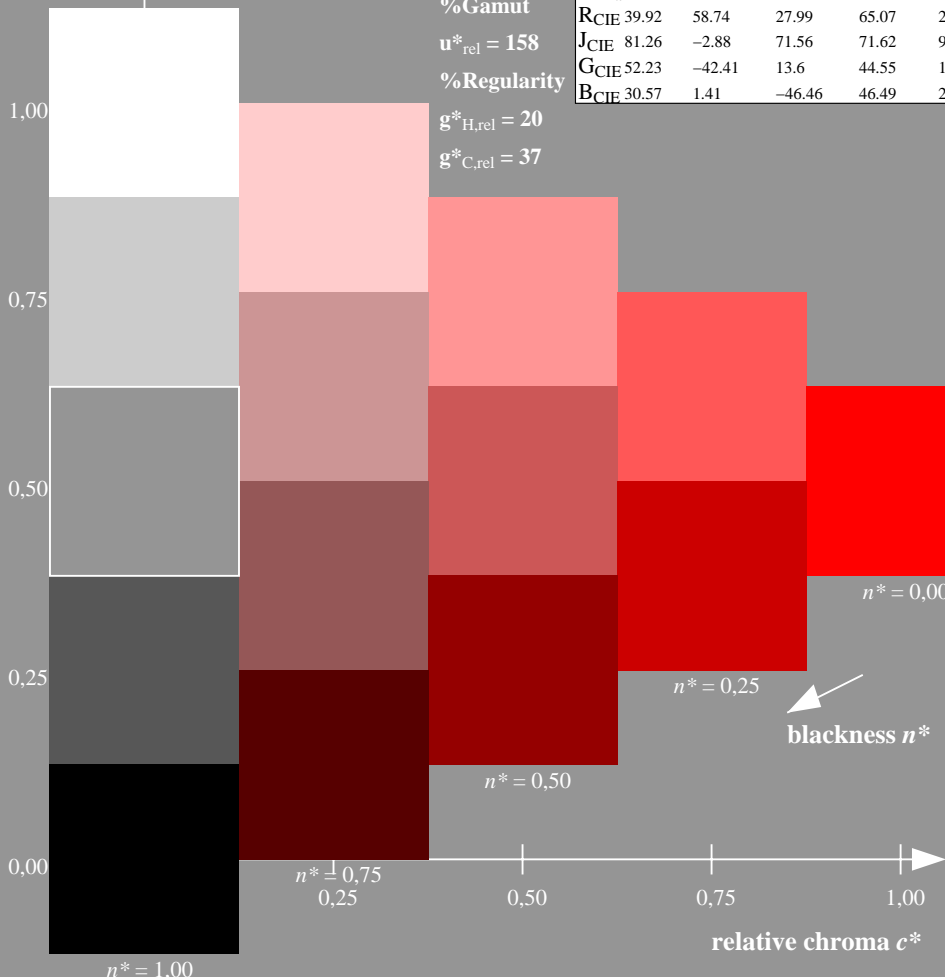
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OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy_0$  ( $\rightarrow cmy_0^*_{d}$ )  $setcmyk$   
 output 133-0:  $g_P=0.77$ ;  $g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

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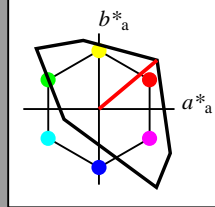
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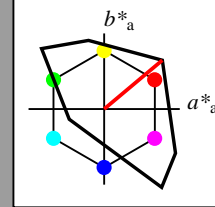
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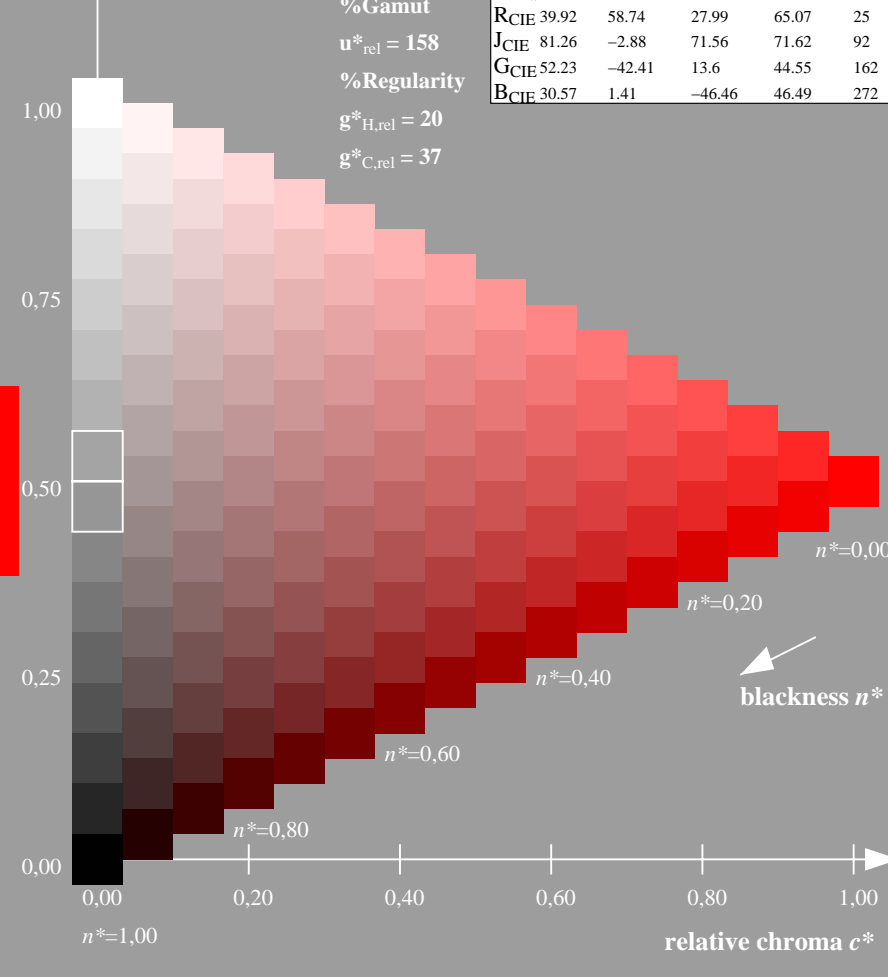
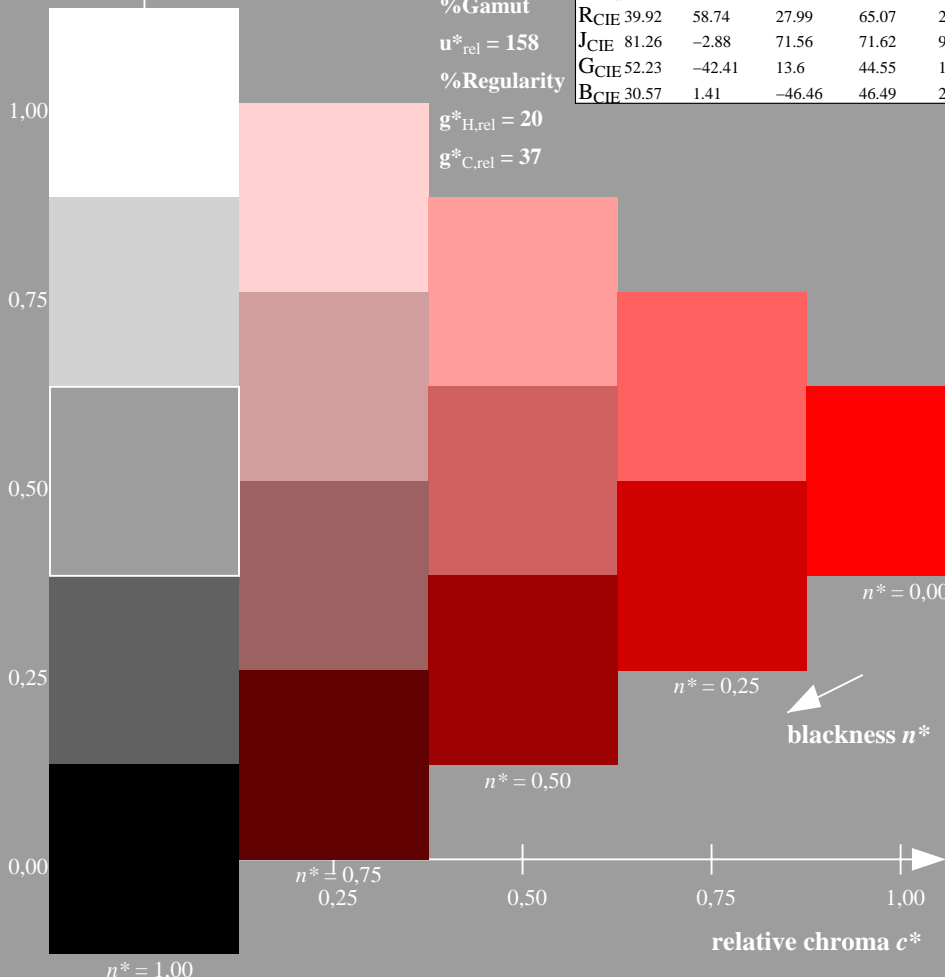
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 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy_0$  ( $\rightarrow cmy_0^*_d$ )  $setcmyk$   
 output 134-0:  $g_P=0.7$ ;  $g_N=1.0$

TUB registration: 20110801-OE73/OE73L0NA.TXT /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=thadata

Input: Colorimetric Television Luminous System TLS00a

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

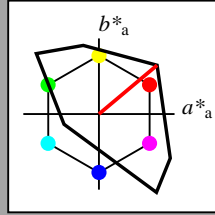
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

Output: Colorimetric Television Luminous System TLS00a

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

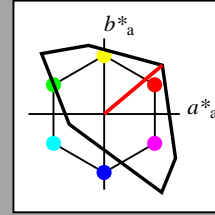
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$

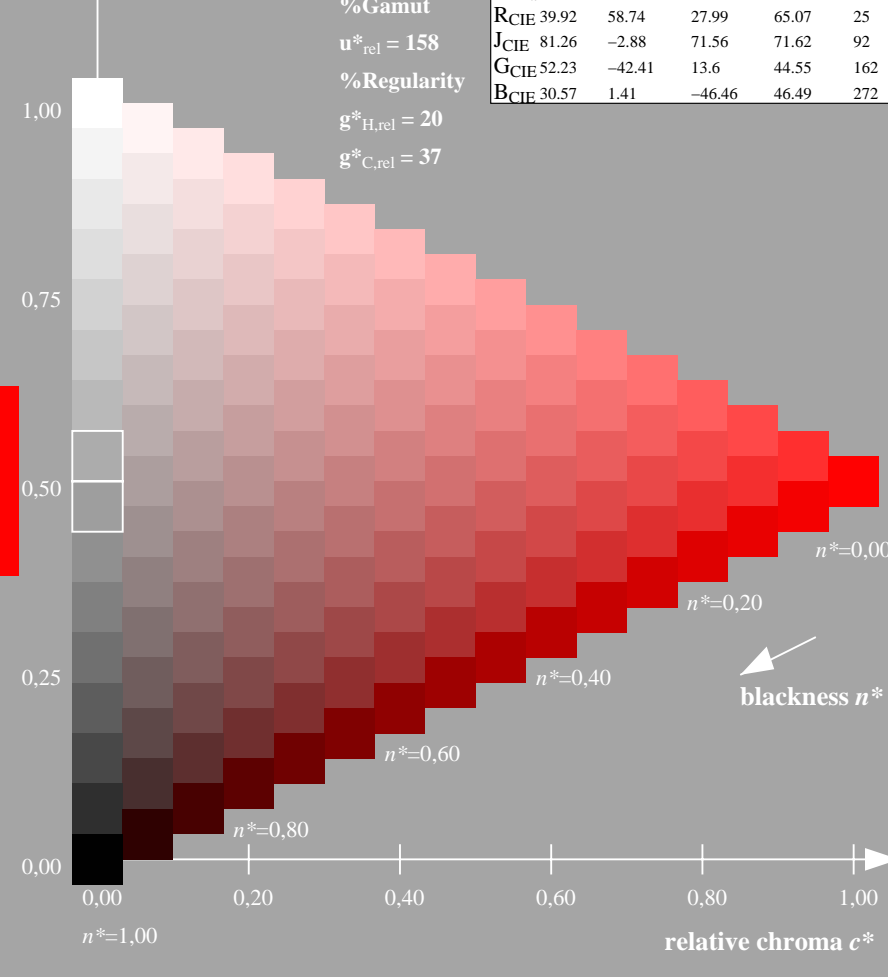
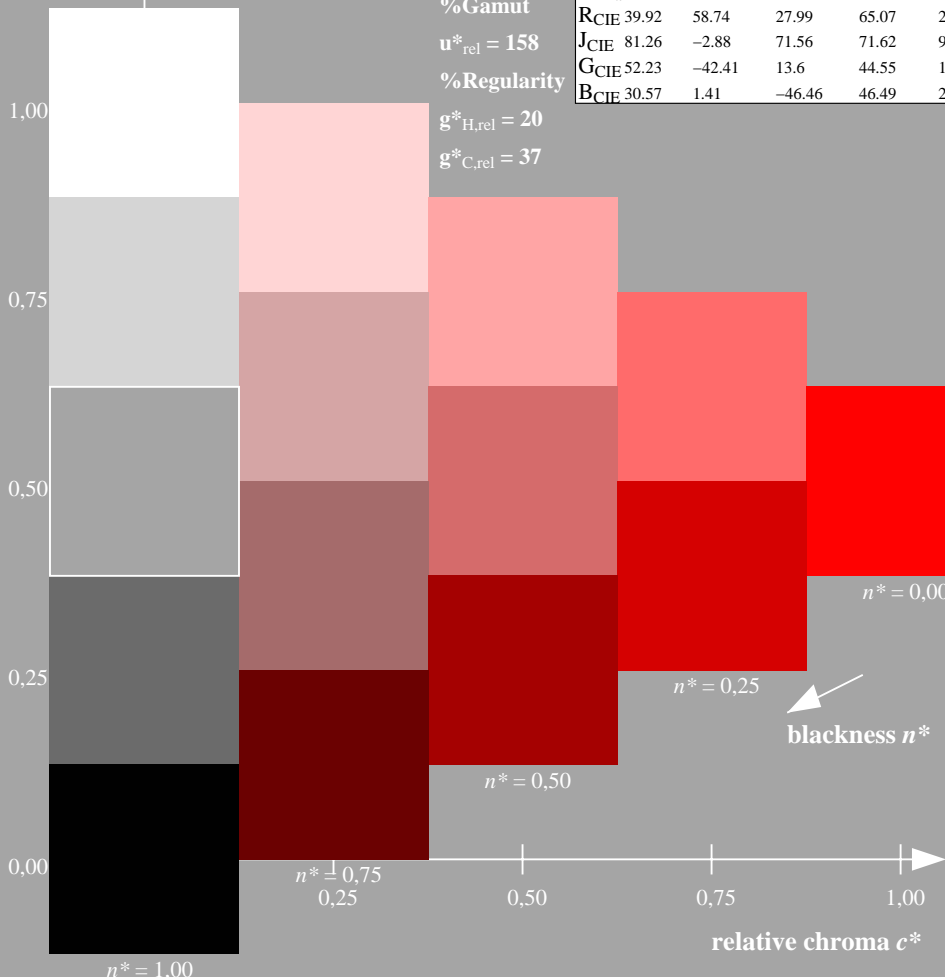


TLS00a; adapted (a) CIELAB data

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

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

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



OE730-7N-130-0: 5 step scales for constant CIE LAB hue 40/360 = 0.111 (left)

16 step scales for constant CIE LAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy_0 (-> cmy_0^*_d)$  setcmyk  
 output 135-0:  $g_P=0.62; g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIE LAB

TUB registration: 20110801-OE73/OE73L0NA.TXT /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=thadata

Input: Colorimetric Television Luminous System TLS00a

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

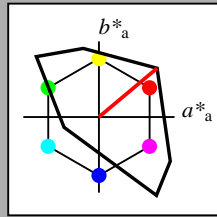
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

Output: Colorimetric Television Luminous System TLS00a

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

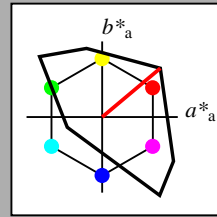
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

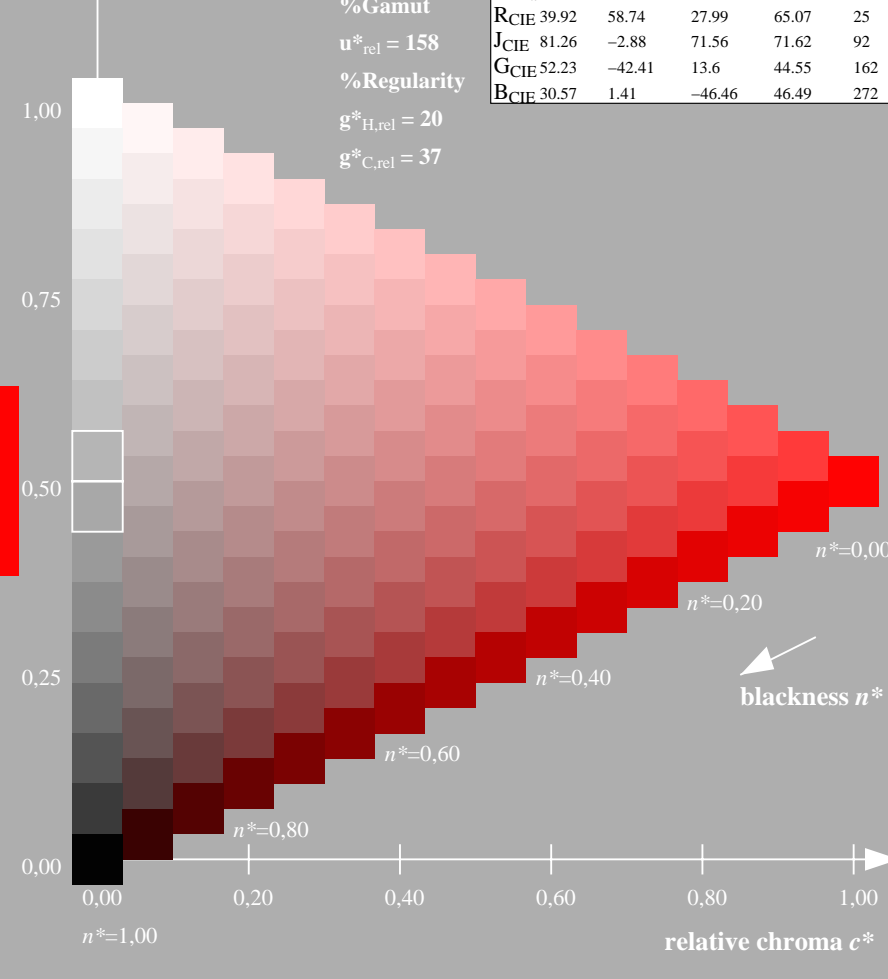
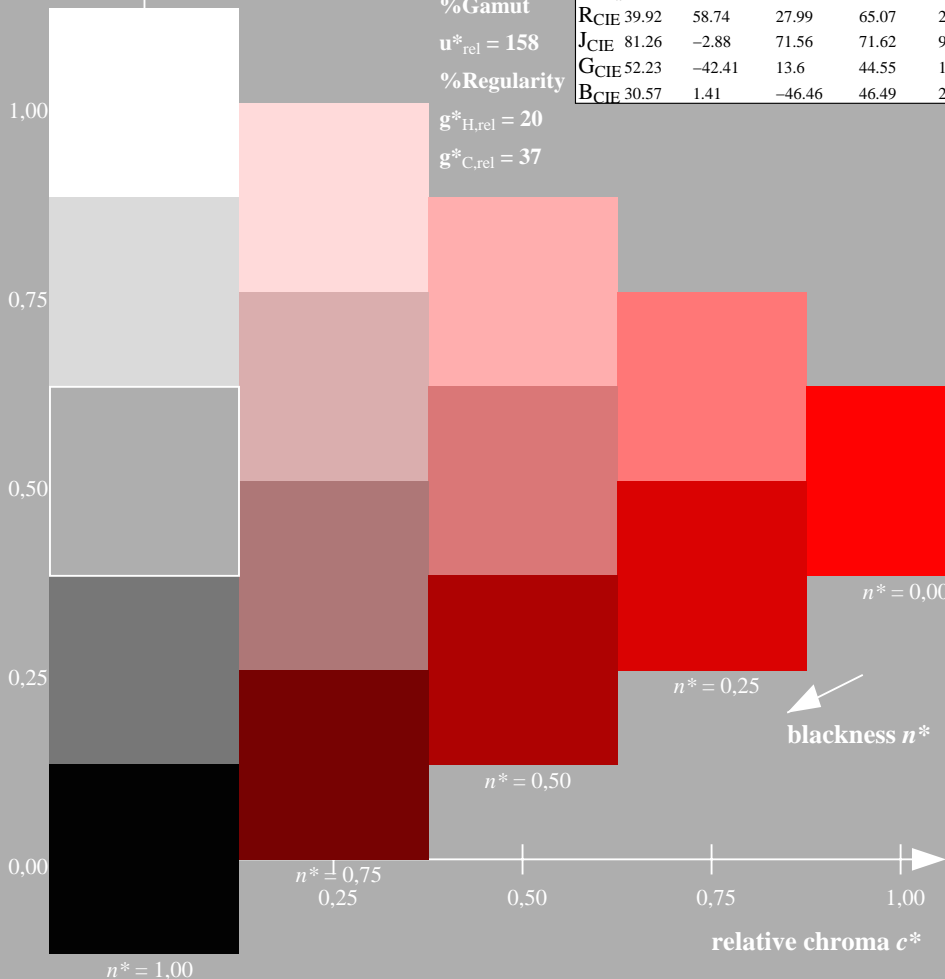
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy0 (->cmy0^*_d)$  setcmyk  
 output 136-0:  $g_P=0.55; g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

TUB registration: 20110801-OE73/OE73L0NA.TXT /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=thadata



Input: Colorimetric Television Luminous System TLS00a

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

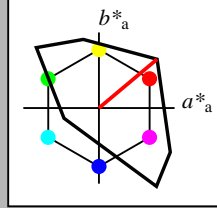
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

Output: Colorimetric Television Luminous System TLS00a

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

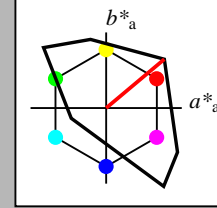
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



TLS00a; 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

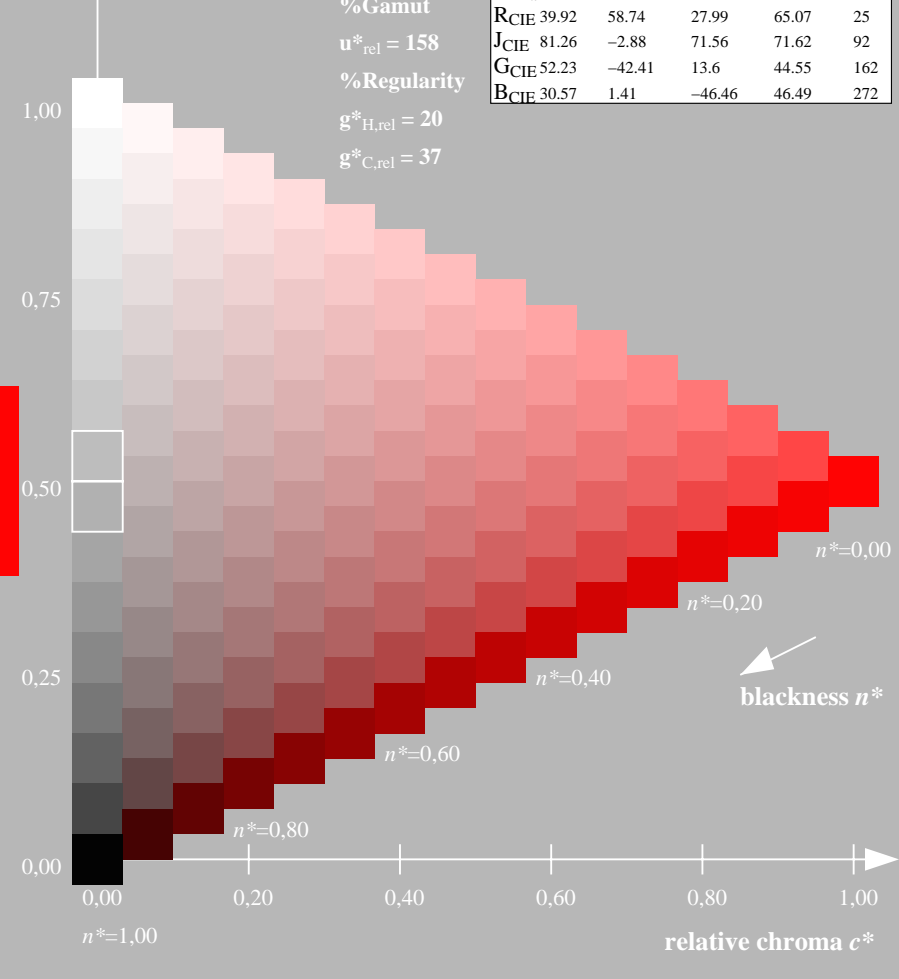
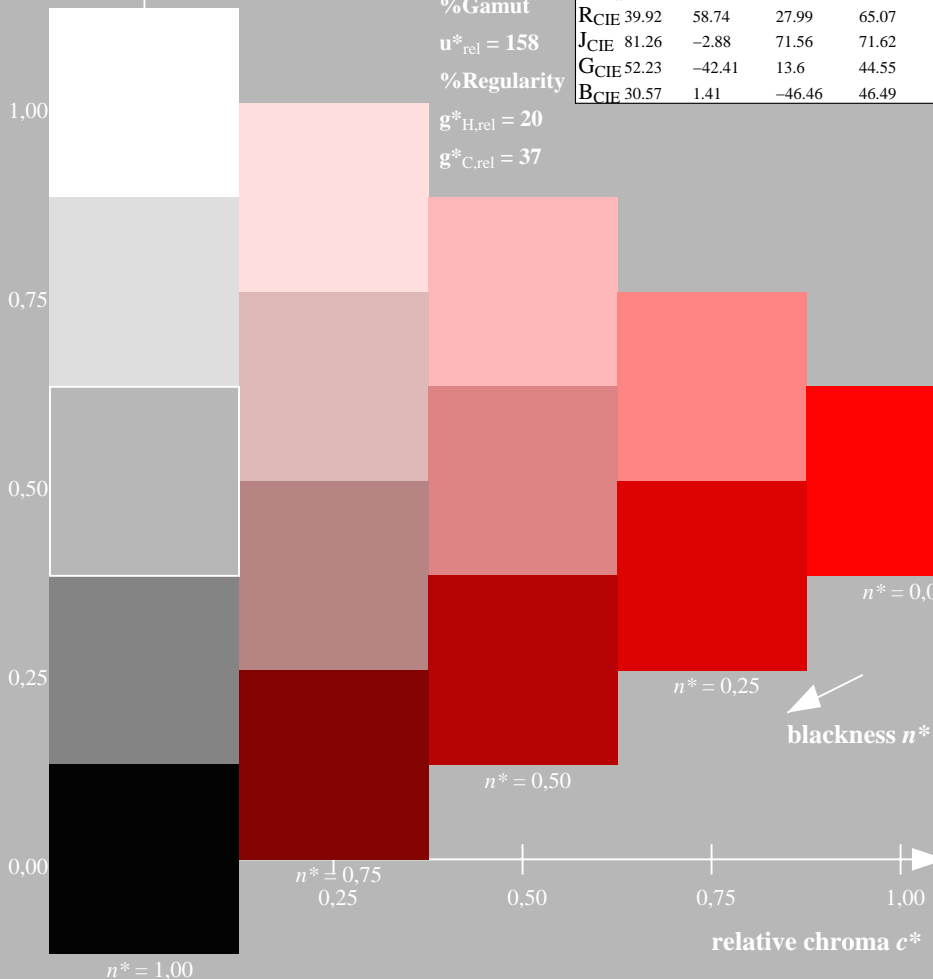
%Gamut

$u^*_{rel} = 158$

%Regularity

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

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



OE730-7N-130-0: 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

OE73: Test chart 2 according to DIN 33872-2, Hue O; 1MR, DH  
 Discrimination of 5 and 16 step colour scales

input:  $cmy0$  ( $\rightarrow cmy0^*_d$ )  $setcmyk$   
 output 137-0:  $g_P=0.47$ ;  $g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

TUB registration: 20110801-OE73/OE73L0NA.TXT /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=thadata