See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

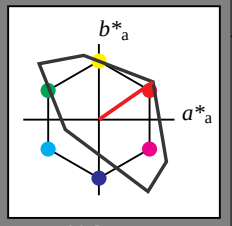
BAM registration: 20060101-OE56/10S/S56E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

Input: Colorimetric Television Luminous System TLS18

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

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

triangle lightness t^*

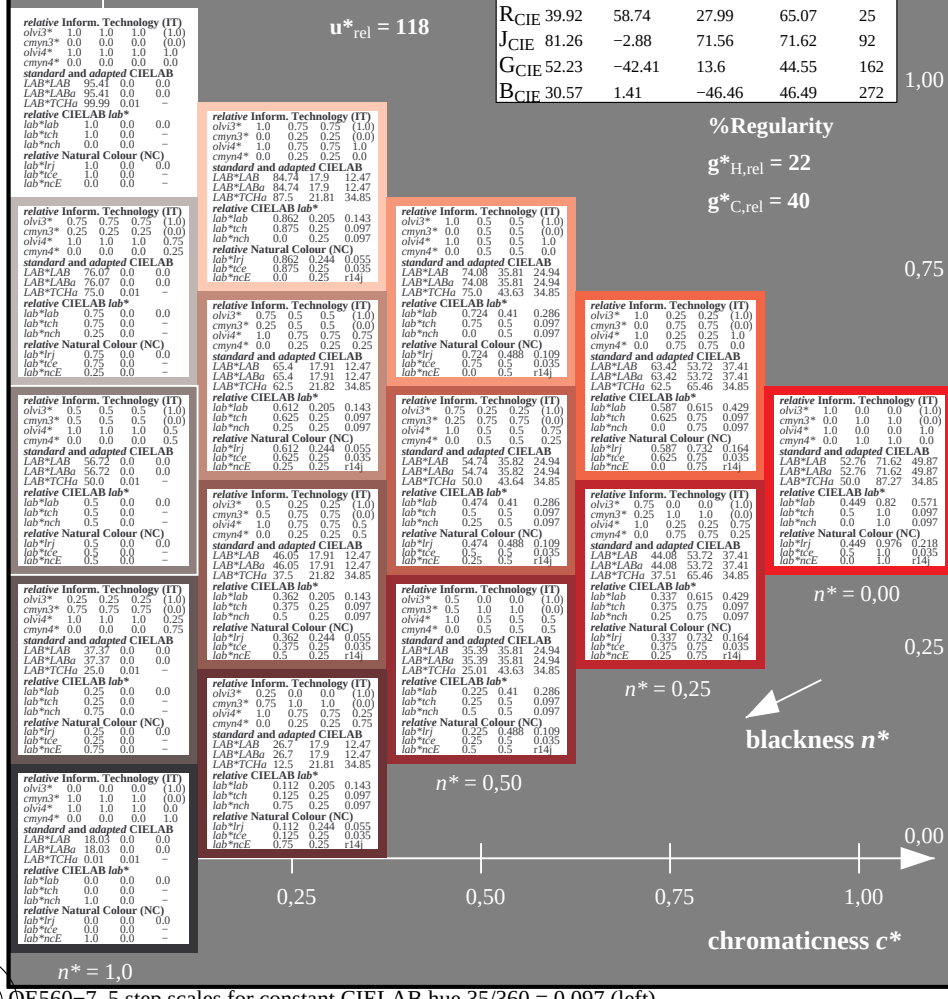


%Gamut
u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40



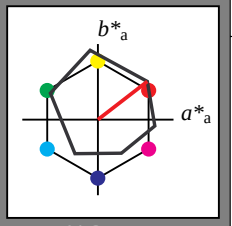
OE560−7, 5 step scales for constant CIELAB hue 35/360 = 0.097 (left)

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$
*lab*tch* and *lab*nch*

D65: hue O
LCH*Ma: 48 83 38
olv*Ma: 1.0 0.0 0.0

triangle lightness t^*

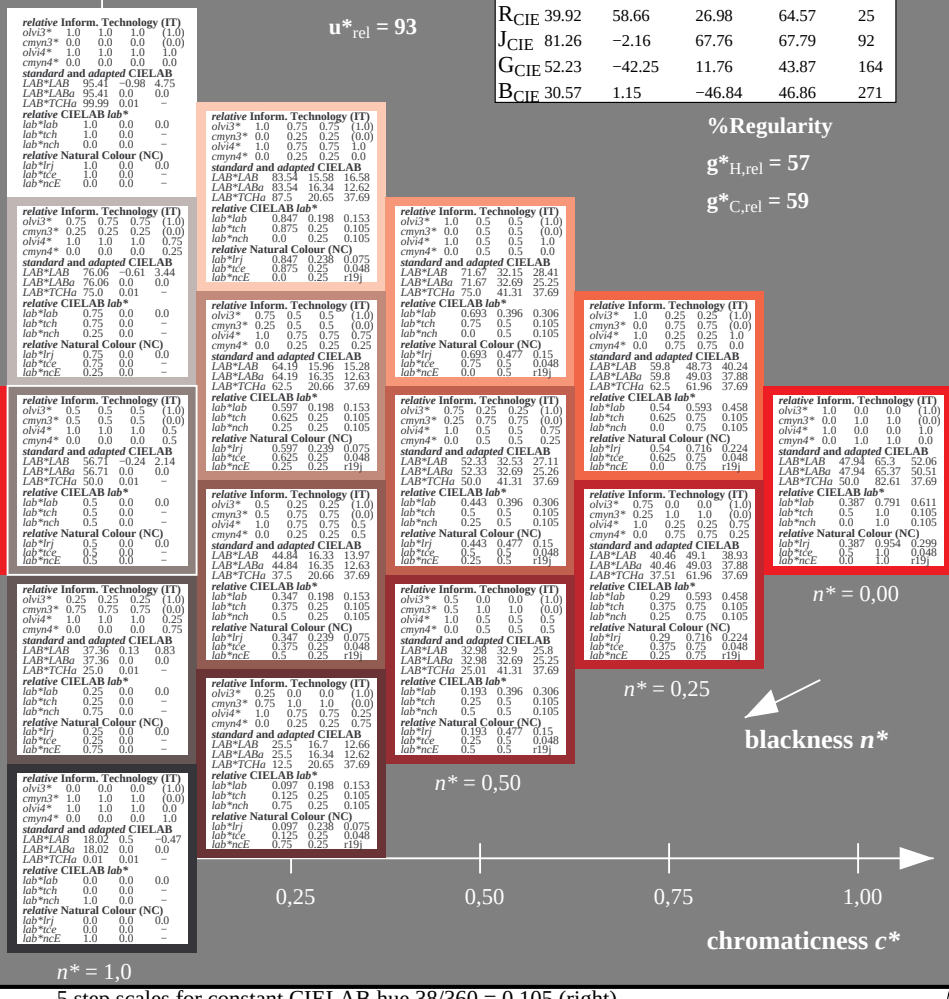


%Gamut
u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



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

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

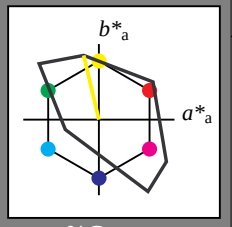
BAM registration: 20060101-OE56/10S/S56E01NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 2/10, Serie: 1/1, Page: 2 Page: count: 2

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 103/360 = 0.287$
*lab*tch* and *lab*nch*

D65: hue Y
LCH*Ma: 93 87 103
olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut
$u^*_{rel} = 118$

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

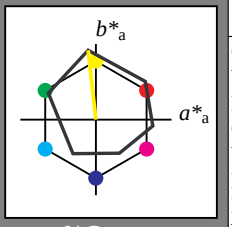
%Regularity
$g^*_{H,rel} = 22$
$g^*_{C,rel} = 40$

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$
*lab*tch* and *lab*nch*

D65: hue Y
LCH*Ma: 90 92 96
olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut
$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel} = 57$
$g^*_{C,rel} = 59$

OE560−7, 5 step scales for constant CIELAB hue 103/360 = 0.287 (left)
5 step scales for constant CIELAB hue 96/360 = 0.268 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

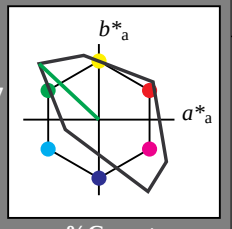
BAM registration: 20060101-OE56/10S/S56E02NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 3/10, Serie: 1/1, Page: 3 Page: count: 3

Input: Colorimetric Television Luminous System TLS18

for hue *h* = lab*h = 137/360 = 0.38*
lab*tch* and *lab*nch

D65: hue L
LCH*Ma: 84 108 137
olv*Ma: 0.0 1.0 0.0

triangle lightness *t**



%Gamut

u*rel = 118

TLS18; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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 = 22

g*C,rel = 40

1,00

0,75

0,25

0,00

n* = 1,0 n* = 0,50 n* = 0,25 n* = 0,00

blackness *n**

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

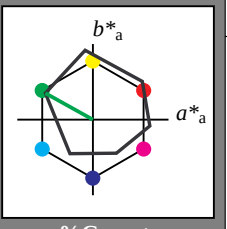
chromaticness *c**

Output: Colorimetric Offset Reflective System ORS18

for hue *h* = lab*h = 151/360 = 0.419*
lab*tch* and *lab*nch

D65: hue L
LCH*Ma: 51 72 151
olv*Ma: 0.0 1.0 0.0

triangle lightness *t**



%Gamut

u*rel = 93

ORS18; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity

g*H,rel = 57

g*C,rel = 59

n* = 1,0 n* = 0,50 n* = 0,25 n* = 0,00

blackness *n**

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

chromaticness *c**

OE560−7, 5 step scales for constant CIELAB hue 137/360 = 0.38 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

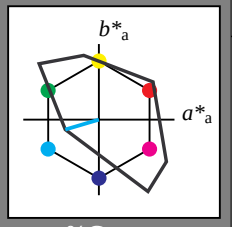
BAM registration: 20060101-OE56/10S/S56E03NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 4/10, Serie: 1/1, Page: 4 Page: count: 4

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 196/360 = 0.546$
*lab*tch* and *lab*nch*

D65: hue C
LCH*Ma: 87 46 196
olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut
u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

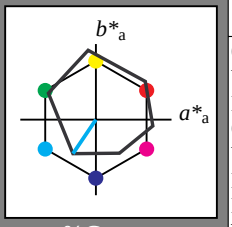
%Regularity
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$
*lab*tch* and *lab*nch*

D65: hue C
LCH*Ma: 59 54 236
olv*Ma: 0.0 1.0 1.0

triangle lightness t^*

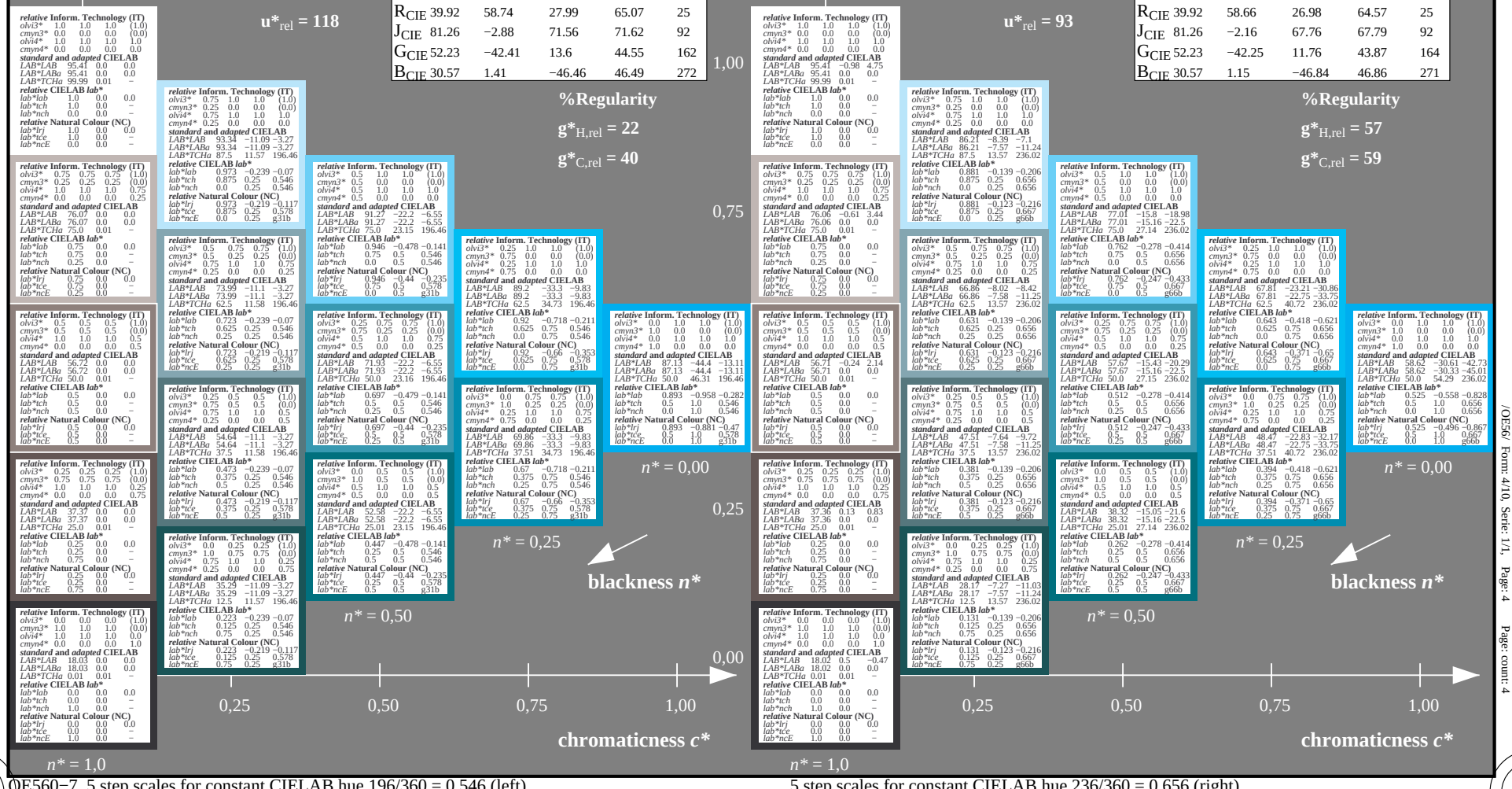


%Gamut
u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



OE560−7, 5 step scales for constant CIELAB hue 196/360 = 0.546 (left)

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

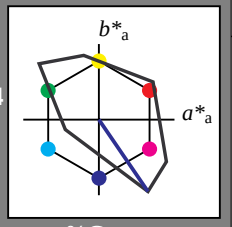
BAM registration: 20060101-OE56/10S/S56E04NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 5/10, Serie: 1/1, Page: 5 Page: count: 5

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 304/360 = 0.845$
lab*tch* and *lab*nch

D65: hue V
LCH*Ma: 35 115 304
olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

u^*_{rel} = 118

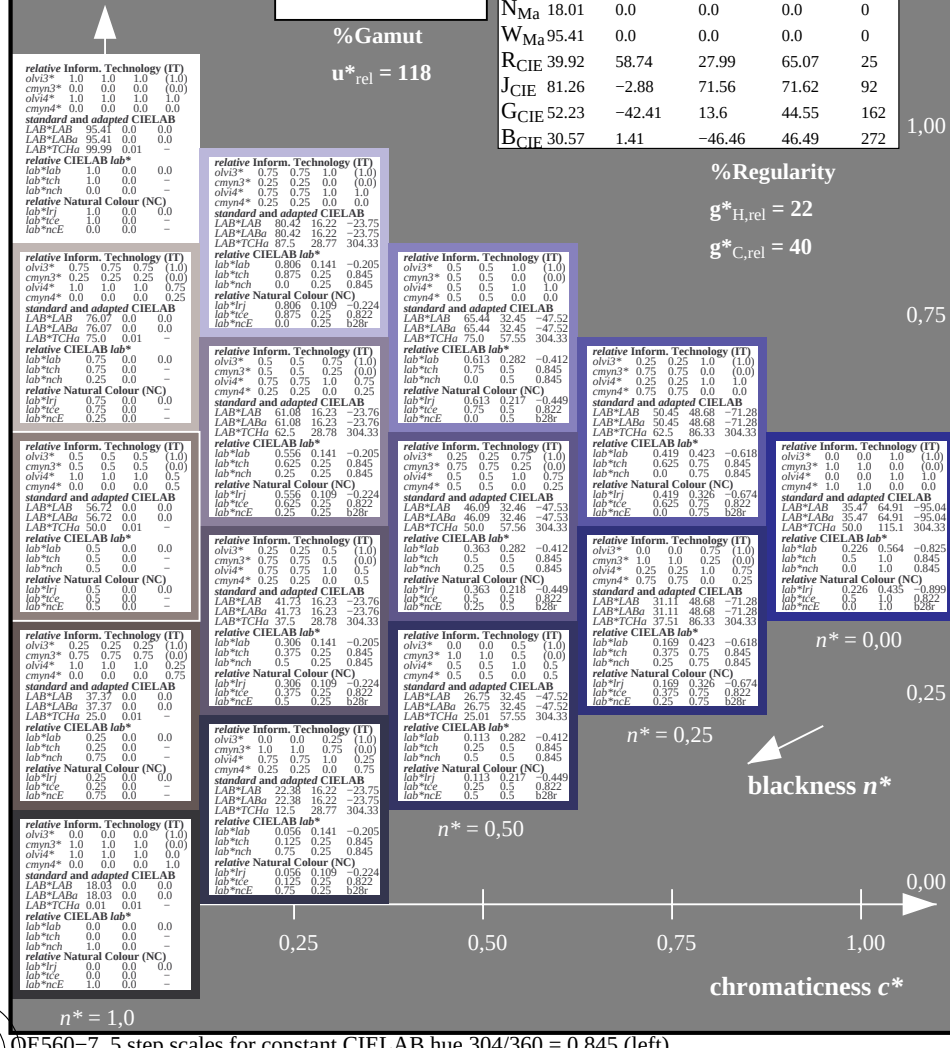
TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40

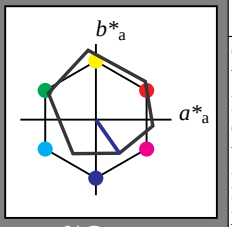


Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$
lab*tch* and *lab*nch

D65: hue V
LCH*Ma: 26 54 305
olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

u^*_{rel} = 93

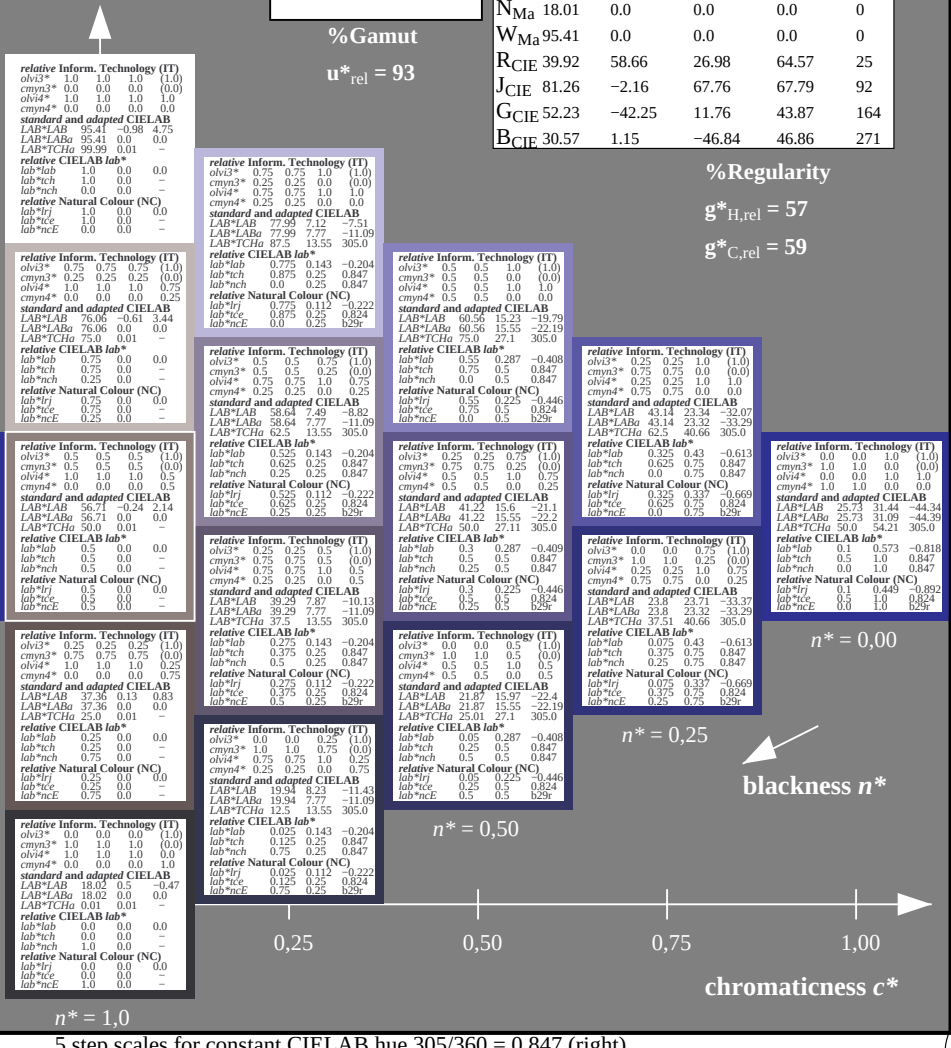
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



OE560−7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

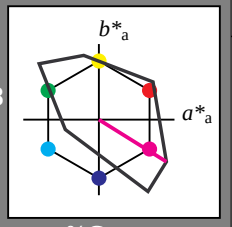
BAM registration: 20060101-OE56/10S/S56E05NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 6/10, Serie: 1/1, Page: 6 Page: count: 6

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
lab*tch* and *lab*nch

D65: hue M
LCH*Ma: 59 105 328
olv*Ma: 1.0 0.0 1.0

triangle lightness t^*

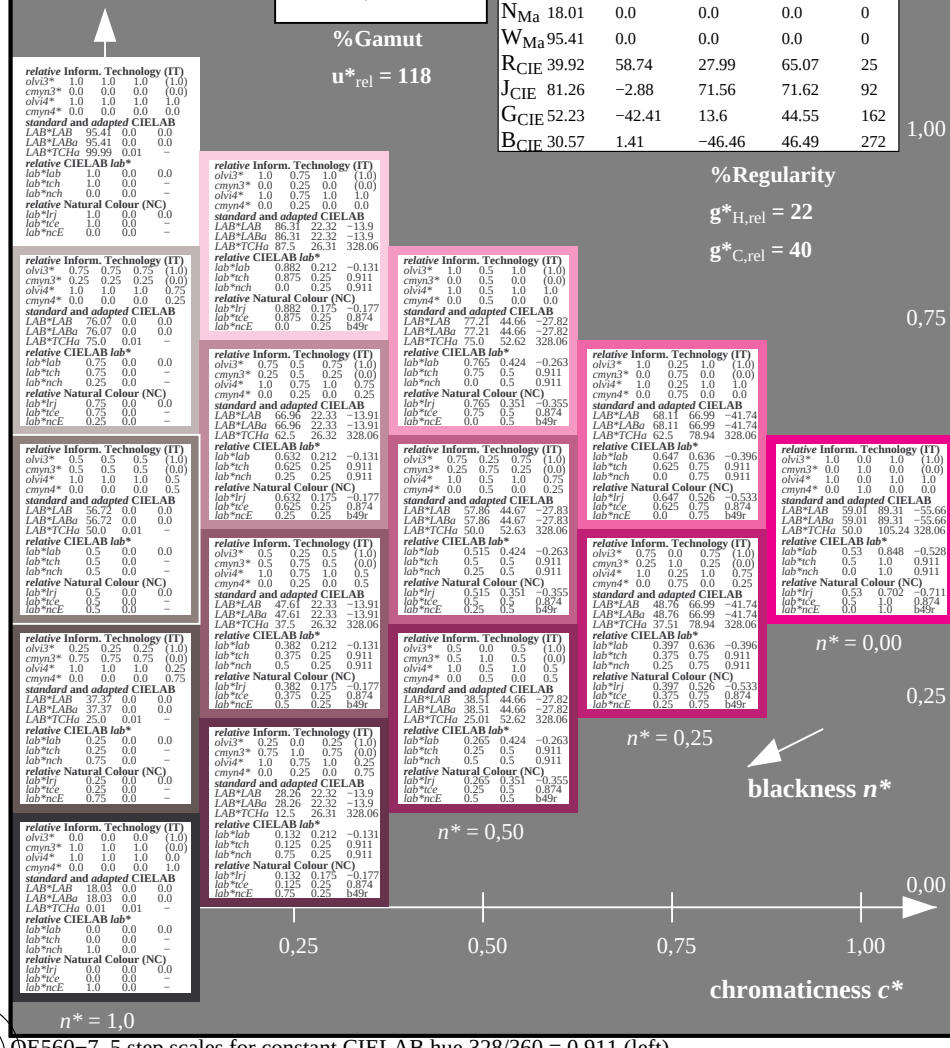


%Gamut
u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40

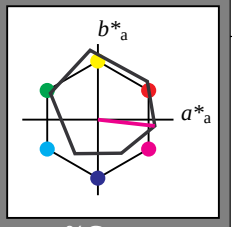


Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$
lab*tch* and *lab*nch

D65: hue M
LCH*Ma: 48 76 354
olv*Ma: 1.0 0.0 1.0

triangle lightness t^*

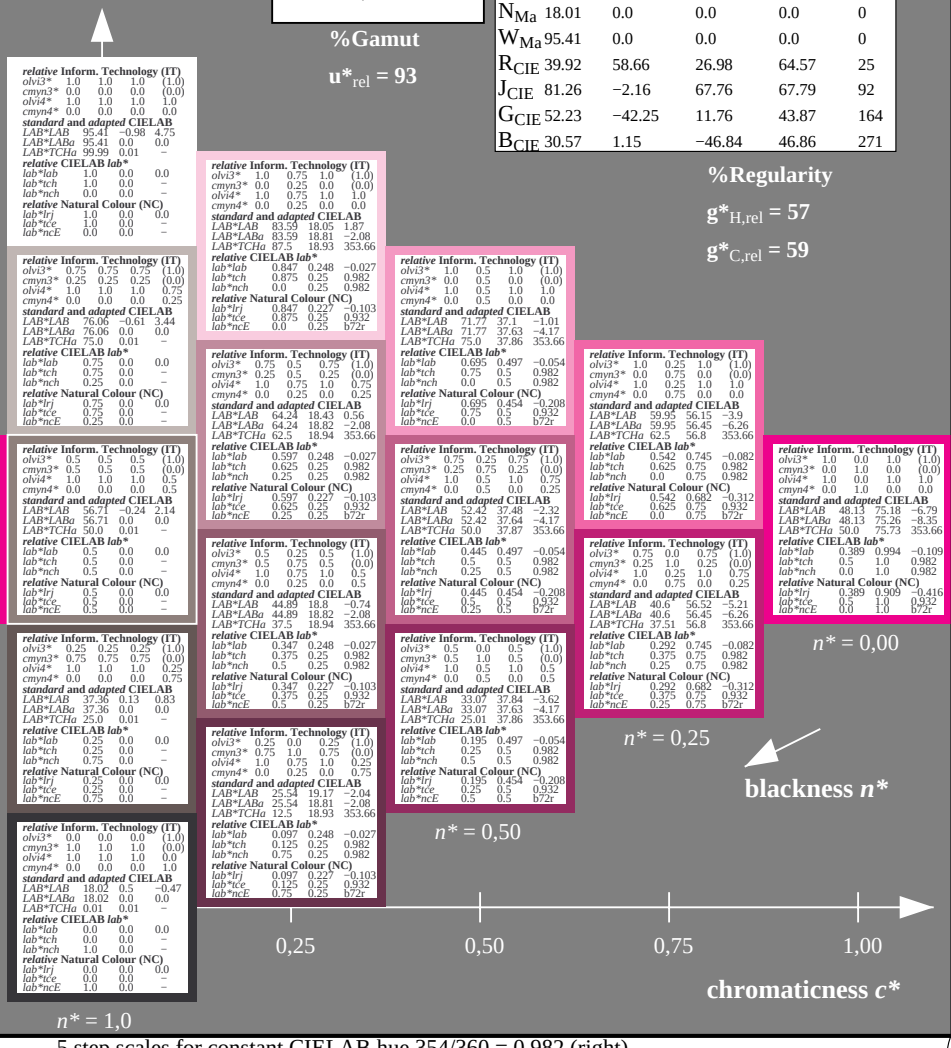


%Gamut
u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



OE560−7, 5 step scales for constant CIELAB hue 328/360 = 0.911 (left)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

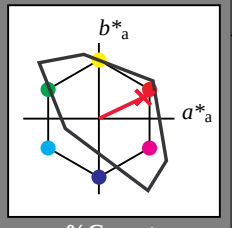
BAM registration: 20060101-OE56/10S/S56E06NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 7/10, Serie: 1/1, Page: 7 Page: count: 7

Input: Colorimetric Television Luminous System TLS18

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

D65: hue R
LCH*Ma: 54 82 25
olv*Ma: 1.0 0.0 0.14

triangle lightness t^*



%Gamut
u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

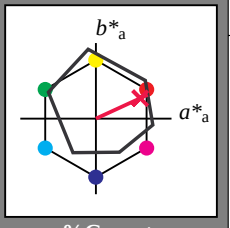
%Regularity
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$
*lab*tch* and *lab*nch*

D65: hue R
LCH*Ma: 48 75 25
olv*Ma: 1.0 0.0 0.32

triangle lightness t^*

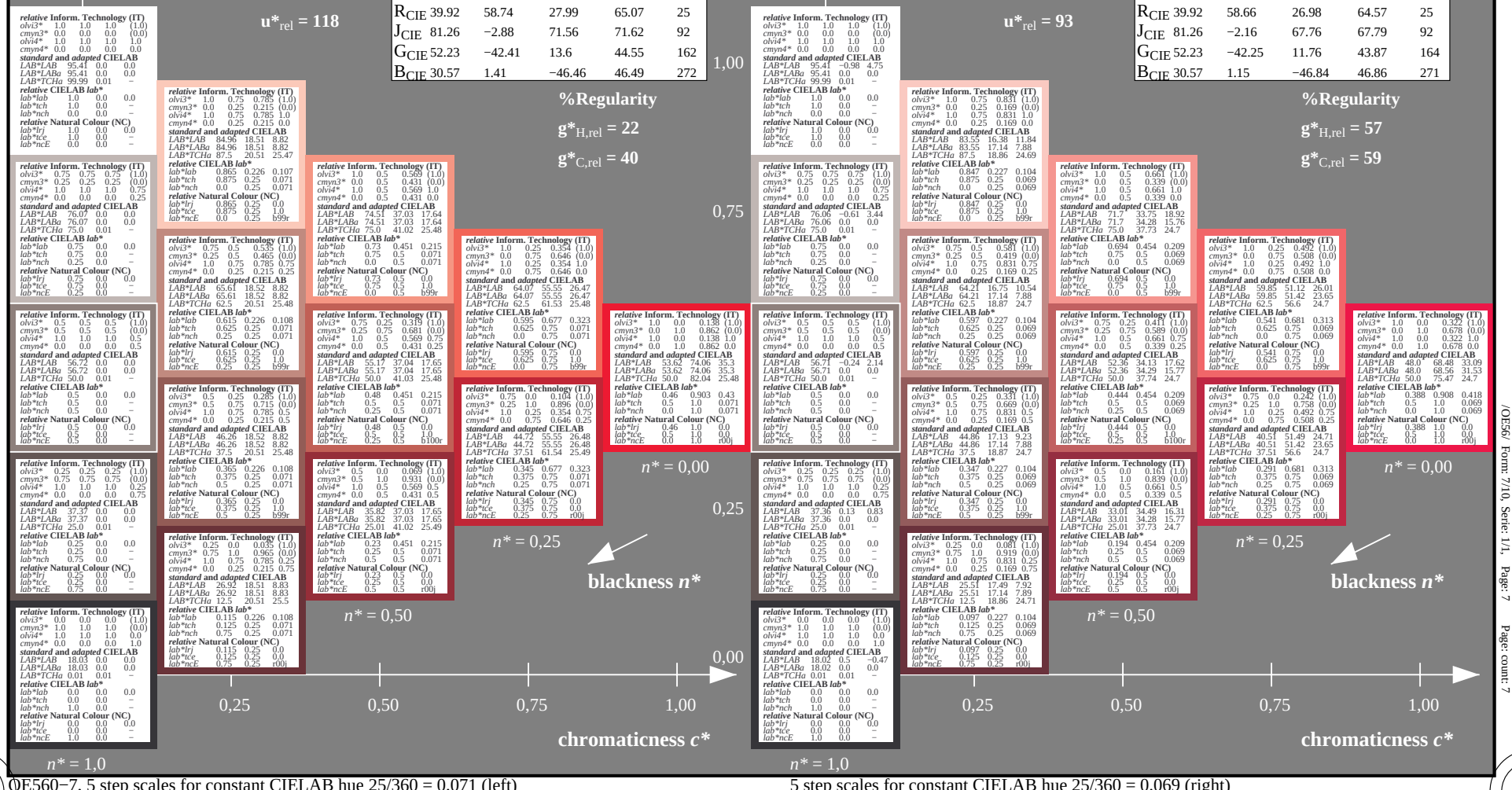


%Gamut
u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



OE560−7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)
5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

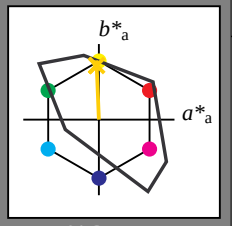
BAM registration: 20060101-OE56/10S/S56E07NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 8/10, Serie: 1/1, Page: 8 Page: count: 8

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 92/360 = 0.256$
*lab*tch* and *lab*nch*

D65: hue J
LCH*Ma: 85 79 92
olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



%Gamut
u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

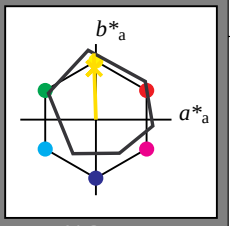
%Regularity
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$
*lab*tch* and *lab*nch*

D65: hue J
LCH*Ma: 86 88 92
olv*Ma: 1.0 0.9 0.0

triangle lightness t^*

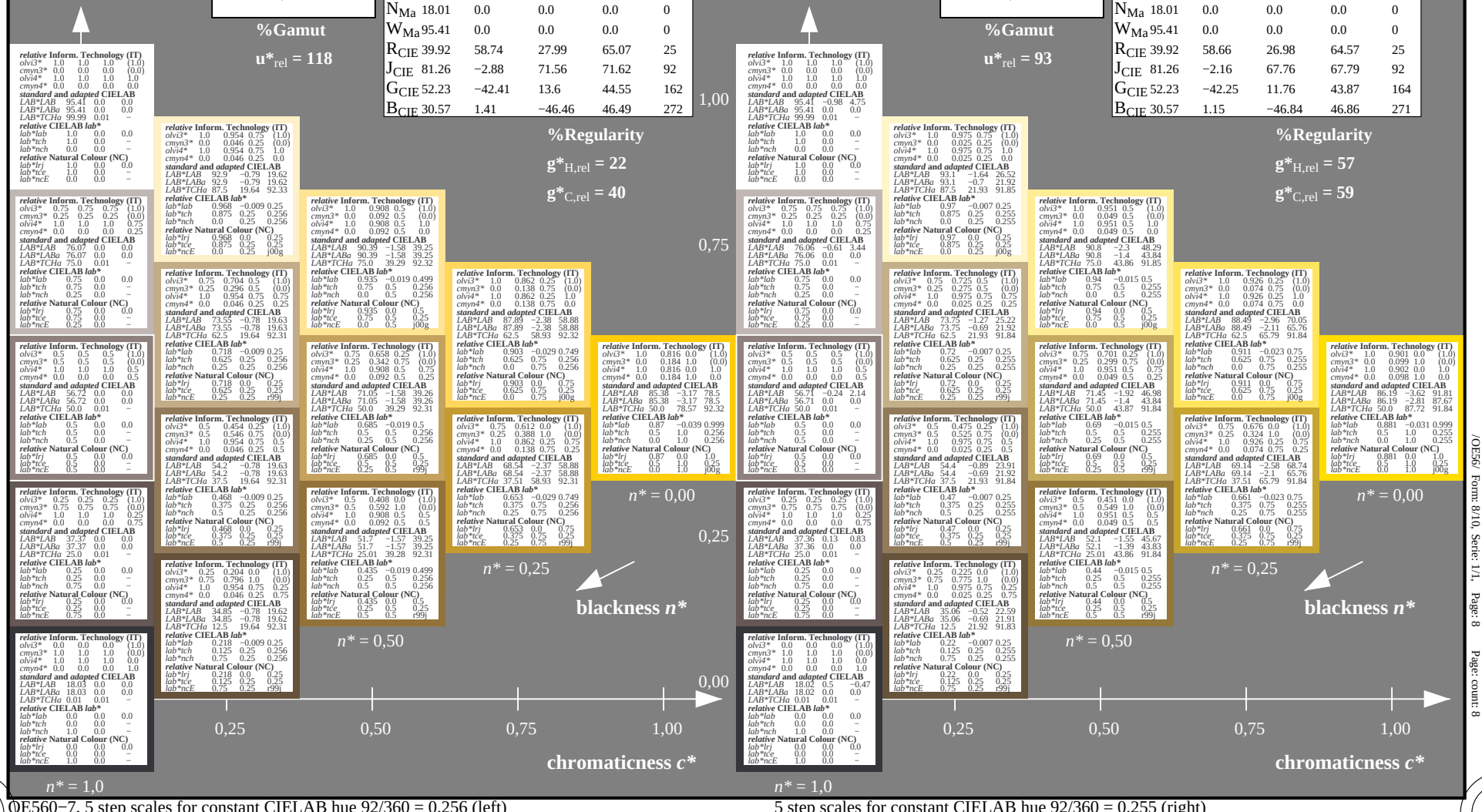


%Gamut
u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



OE560−7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

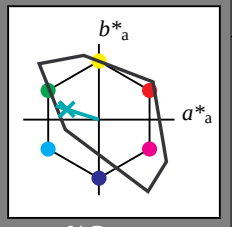
BAM registration: 20060101-OE56/10S/S56E08NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/OE56/ Form: 9/10, Serie: 1/1, Page: 9 Page: count: 9

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 162/360 = 0.451$
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 86 60 162
olv*Ma: 0.0 1.0 0.64

triangle lightness t^*



%Gamut

u^*_{rel} = 118

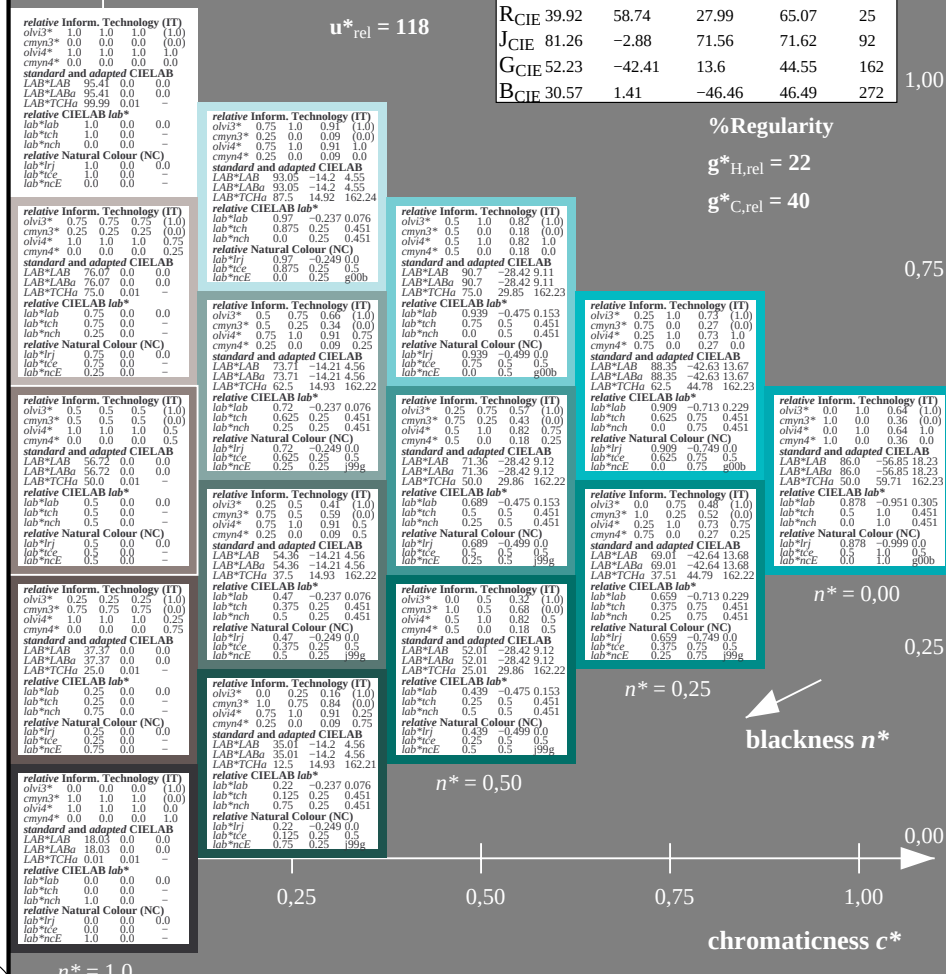
TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



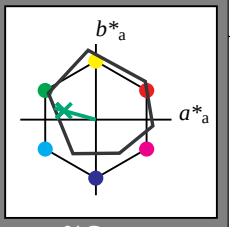
OE560−7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 53 57 164
olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

u^*_{rel} = 93

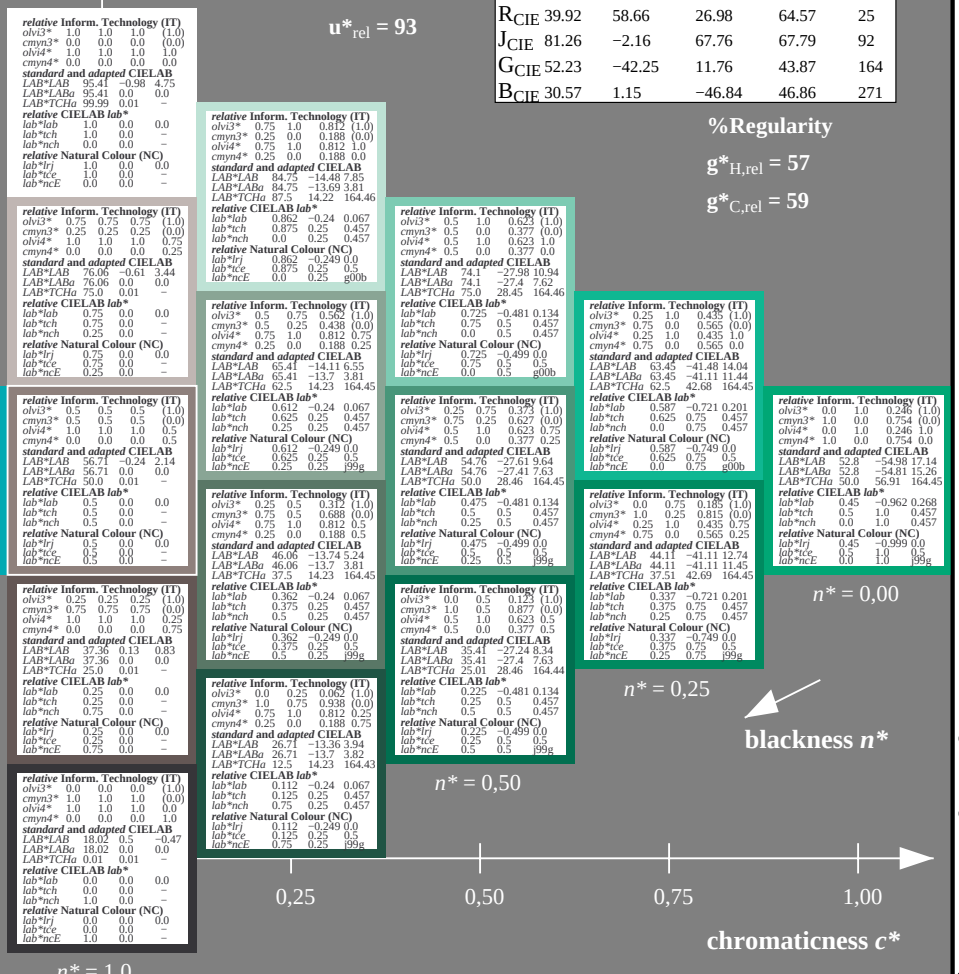
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: *cmy0* setcmykcolor*
output: *no change compared to input*

www.ps.bam.de/OE56/10S/S56E09NP.PS/.PDF; start output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

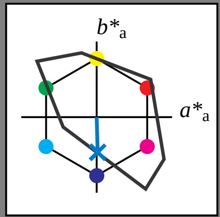
See for similar files: http://www.ps.bam.de/OE56/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 272/360 = 0.755$
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 65 48 272
olv*Ma: 0.0 0.58 1.0

triangle lightness *t**



%Gamut

u^*_{rel} = 118

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	52.76	71.63	49.88	87.29	35
Y_{Ma}	92.74	−20.02	84.97	87.3	103
L_{Ma}	84.0	−78.98	73.94	108.2	137
C_{Ma}	87.14	−44.41	−13.11	46.32	196
V_{Ma}	35.47	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	−2.88	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

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40

*c** = 0.00, *n** = 0.00

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*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*lrj*	1.0	0.0	0.0	
*lab*tce*	1.0	0.0	–	
*lab*ncE*	0.0	0.0	–	

*c** = 0.00, *n** = 0.25

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	0.75
*cmyn4**	0.0	0.0	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	76.07	0.0	0.0	
*LAB*LABa*	76.07	0.0	0.0	
*LAB*TCHa*	75.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.75	0.0	0.0	
*lab*tch*	0.75	0.0	–	
*lab*nch*	0.25	0.0	–	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.75	0.0	0.0	
*lab*tce*	0.75	0.0	–	
*lab*ncE*	0.25	0.0	–	

*c** = 0.00, *n** = 0.50

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	0.5
*cmyn4**	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*TCHa*	50.0	0.01	–	
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	–	

*c** = 0.00, *n** = 0.75

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.25	0.25	(1.0)
*cmyn3**	0.75	0.75	0.75	(0.0)
*olvi4**	1.0	1.0	1.0	0.25
*cmyn4**	0.0	0.0	0.0	0.75
***standard* and *adapted* CIELAB**				
*LAB*LAB*	37.37	0.0	0.0	
*LAB*LABa*	37.37	0.0	0.0	
*LAB*TCHa*	25.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.25	0.0	0.0	
*lab*tch*	0.25	0.0	–	
*lab*nch*	0.75	0.0	–	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.25	0.0	0.0	
*lab*tce*	0.25	0.0	–	
*lab*ncE*	0.75	0.0	–	

*c** = 0.00, *n** = 1.0

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.0	0.0	(1.0)
*cmyn3**	1.0	1.0	1.0	(0.0)
*olvi4**	1.0	1.0	1.0	0.0
*cmyn4**	0.0	0.0	0.0	1.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	18.03	0.0	0.0	
*LAB*LABa*	18.03	0.0	0.0	
*LAB*TCHa*	0.01	0.01	–	
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	–	

*c** = 0.25, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.75	0.895	1.0	(1.0)
*cmyn3**	0.25	0.105	0.0	(0.0)
*olvi4**	0.75	0.895	1.0	1.0
*cmyn4**	0.25	0.105	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	87.92	0.35	−11.85	
*LAB*LABa*	87.92	0.35	−11.85	
*LAB*TCHa*	87.5	11.87	271.71	
relative* CIELAB *lab*				
*lab*lab*	0.903	0.007	−0.249	
*lab*tch*	0.875	0.25	0.755	
*lab*nch*	0.0	0.25	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.903	0.0	−0.249	
*lab*tce*	0.875	0.25	0.75	
*lab*ncE*	0.0	0.25	g99b	

*c** = 0.25, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.5	0.645	0.75	(1.0)
*cmyn3**	0.5	0.355	0.25	(0.0)
*olvi4**	0.75	0.895	1.0	0.75
*cmyn4**	0.25	0.105	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	68.57	0.36	−11.86	
*LAB*LABa*	68.57	0.36	−11.86	
*LAB*TCHa*	62.5	11.88	271.74	
relative* CIELAB *lab*				
*lab*lab*	0.653	0.008	−0.249	
*lab*tch*	0.625	0.25	0.755	
*lab*nch*	0.25	0.25	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.653	0.0	−0.249	
*lab*tce*	0.625	0.25	0.75	
*lab*ncE*	0.25	0.25	b00r	

*c** = 0.25, *n** = 0.50

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.395	0.5	(1.0)
*cmyn3**	0.75	0.605	0.5	(0.0)
*olvi4**	0.75	0.895	1.0	0.5
*cmyn4**	0.25	0.105	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	49.22	0.36	−11.86	
*LAB*LABa*	49.22	0.36	−11.86	
*LAB*TCHa*	37.5	11.88	271.74	
relative* CIELAB *lab*				
*lab*lab*	0.403	0.008	−0.249	
*lab*tch*	0.375	0.25	0.755	
*lab*nch*	0.5	0.25	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.403	0.0	−0.249	
*lab*tce*	0.375	0.25	0.75	
*lab*ncE*	0.5	0.25	b00r	

*c** = 0.25, *n** = 0.75

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.145	0.25	(1.0)
*cmyn3**	1.0	0.855	0.75	(0.0)
*olvi4**	0.75	0.895	1.0	0.25
*cmyn4**	0.25	0.105	0.0	0.75
***standard* and *adapted* CIELAB**				
*LAB*LAB*	29.88	0.36	−11.86	
*LAB*LABa*	29.88	0.36	−11.86	
*LAB*TCHa*	12.5	11.88	271.76	
relative* CIELAB *lab*				
*lab*lab*	0.153	0.008	−0.249	
*lab*tch*	0.125	0.25	0.755	
*lab*nch*	0.75	0.25	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.153	0.0	−0.249	
*lab*tce*	0.125	0.25	0.75	
*lab*ncE*	0.75	0.25	b00r	

*c** = 0.50, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.5	0.79	1.0	(1.0)
*cmyn3**	0.5	0.21	0.0	(0.0)
*olvi4**	0.5	0.79	1.0	1.0
*cmyn4**	0.5	0.21	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	80.44	0.71	−23.73	
*LAB*LABa*	80.44	0.71	−23.73	
*LAB*TCHa*	75.0	23.75	271.72	
relative* CIELAB *lab*				
*lab*lab*	0.807	0.015	−0.499	
*lab*tch*	0.75	0.5	0.755	
*lab*nch*	0.0	0.5	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.807	0.0	−0.499	
*lab*tce*	0.75	0.5	0.75	
*lab*ncE*	0.0	0.5	g99b	

*c** = 0.50, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.54	0.75	(1.0)
*cmyn3**	0.75	0.46	0.25	(0.0)
*olvi4**	0.5	0.79	1.0	0.75
*cmyn4**	0.5	0.21	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	61.09	0.72	−23.74	
*LAB*LABa*	61.09	0.72	−23.74	
*LAB*TCHa*	50.0	23.76	271.74	
relative* CIELAB *lab*				
*lab*lab*	0.557	0.015	−0.499	
*lab*tch*	0.5	0.5	0.755	
*lab*nch*	0.25	0.5	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.557	0.0	−0.499	
*lab*tce*	0.5	0.5	0.75	
*lab*ncE*	0.25	0.5	b00r	

*c** = 0.50, *n** = 0.50

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.29	0.5	(1.0)
*cmyn3**	1.0	0.71	0.5	(0.0)
*olvi4**	0.5	0.79	1.0	0.5
*cmyn4**	0.5	0.21	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	41.74	0.72	−23.74	
*LAB*LABa*	41.74	0.72	−23.74	
*LAB*TCHa*	25.01	23.76	271.75	
relative* CIELAB *lab*				
*lab*lab*	0.307	0.015	−0.499	
*lab*tch*	0.25	0.5	0.755	
*lab*nch*	0.5	0.5	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.307	0.0	−0.499	
*lab*tce*	0.25	0.5	0.75	
*lab*ncE*	0.5	0.5	b00r	

*c** = 0.75, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.685	1.0	(1.0)
*cmyn3**	0.75	0.315	0.0	(0.0)
*olvi4**	0.25	0.686	1.0	1.0
*cmyn4**	0.75	0.314	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	72.95	1.07	−35.6	
*LAB*LABa*	72.95	1.07	−35.6	
*LAB*TCHa*	62.5	35.63	271.73	
relative* CIELAB *lab*				
*lab*lab*	0.71	0.023	−0.749	
*lab*tch*	0.625	0.75	0.755	
*lab*nch*	0.0	0.75	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.71	0.0	−0.749	
*lab*tce*	0.625	0.75	0.75	
*lab*ncE*	0.0	0.75	g99b	

*c** = 0.75, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.435	0.75	(1.0)
*cmyn3**	1.0	0.565	0.25	(0.0)
*olvi4**	0.25	0.685	1.0	0.75
*cmyn4**	0.75	0.315	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	53.6	1.09	−35.61	
*LAB*LABa*	53.6	1.09	−35.61	
*LAB*TCHa*	37.51	35.63	271.75	
relative* CIELAB *lab*				
*lab*lab*	0.46	0.023	−0.749	
*lab*tch*	0.375	0.75	0.755	
*lab*nch*	0.25	0.75	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.46	0.0	−0.749	
*lab*tce*	0.375	0.75	0.75	
*lab*ncE*	0.25	0.75	b00r	

*c** = 1.00, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.581	1.0	(1.0)
*cmyn3**	1.0	0.419	0.0	(0.0)
*olvi4**	0.0	0.581	1.0	1.0
*cmyn4**	1.0	0.419	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	65.47	1.44	−47.47	
*LAB*LABa*	65.47	1.44	−47.47	
*LAB*TCHa*	50.0	47.5	271.74	
relative* CIELAB *lab*				
*lab*lab*	0.613	0.03	−0.998	
*lab*tch*	0.5	1.0	0.755	
*lab*nch*	0.0	1.0	0.755	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.613	0.0	−0.999	
*lab*tce*	0.5	1.0	0.75	
*lab*ncE*	0.0	1.0	g99b	

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

*n** = 0,00 *n** = 0,25 *n** = 0,50 *n** = 1,0

blackness *n**

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

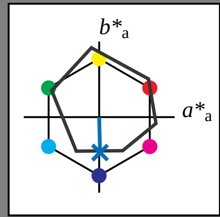
chromaticness *c**

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 42 45 271
olv*Ma: 0.0 0.49 1.0

triangle lightness *t**



%Gamut

u^*_{rel} = 93

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59

*c** = 0.00, *n** = 0.00

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	−0.98	4.75	
*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*lrj*	1.0	0.0	0.0	
*lab*tce*	1.0	0.0	–	
*lab*ncE*	0.0	0.0	–	

*c** = 0.00, *n** = 0.25

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	0.75
*cmyn4**	0.0	0.0	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	76.06	−0.61	3.44	
*LAB*LABa*	76.06	0.0	0.0	
*LAB*TCHa*	75.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.75	0.0	0.0	
*lab*tch*	0.75	0.0	–	
*lab*nch*	0.25	0.0	–	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.75	0.0	0.0	
*lab*tce*	0.75	0.0	–	
*lab*ncE*	0.25	0.0	–	

*c** = 0.00, *n** = 0.50

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	0.5
*cmyn4**	0.0	0.0	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*TCHa*	50.0	0.01	–	
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	–	

*c** = 0.00, *n** = 0.75

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.25	0.25	(1.0)
*cmyn3**	0.75	0.75	0.75	(0.0)
*olvi4**	1.0	1.0	1.0	0.25
*cmyn4**	0.0	0.0	0.0	0.75
***standard* and *adapted* CIELAB**				
*LAB*LAB*	37.36	0.13	0.83	
*LAB*LABa*	37.36	0.0	0.0	
*LAB*TCHa*	25.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.25	0.0	0.0	
*lab*tch*	0.25	0.0	–	
*lab*nch*	0.75	0.0	–	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.25	0.0	0.0	
*lab*tce*	0.25	0.0	–	
*lab*ncE*	0.75	0.0	–	

*c** = 0.00, *n** = 1.0

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.0	0.0	(1.0)
*cmyn3**	1.0	1.0	1.0	(0.0)
*olvi4**	1.0	1.0	1.0	0.0
*cmyn4**	0.0	0.0	0.0	1.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	18.02	0.5	−0.47	
*LAB*LABa*	18.02	0.0	0.0	
*LAB*TCHa*	0.01	0.01	–	
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	–	

*c** = 0.25, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.75	0.872	1.0	(1.0)
*cmyn3**	0.25	0.128	0.0	(0.0)
*olvi4**	0.75	0.872	1.0	1.0
*cmyn4**	0.25	0.128	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	82.0	−0.45	−7.31	
*LAB*LABa*	82.0	0.27	−11.16	
*LAB*TCHa*	87.5	11.18	271.39	
relative* CIELAB *lab*				
*lab*lab*	0.827	0.006	−0.249	
*lab*tch*	0.875	0.25	0.754	
*lab*nch*	0.0	0.25	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.827	0.0	−0.249	
*lab*tce*	0.875	0.25	0.75	
*lab*ncE*	0.0	0.25	g99b	

*c** = 0.25, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.5	0.622	0.75	(1.0)
*cmyn3**	0.5	0.378	0.25	(0.0)
*olvi4**	0.75	0.872	1.0	0.75
*cmyn4**	0.25	0.128	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	62.65	−0.07	−8.62	
*LAB*LABa*	62.65	0.27	−11.17	
*LAB*TCHa*	62.5	11.18	271.41	
relative* CIELAB *lab*				
*lab*lab*	0.577	0.006	−0.249	
*lab*tch*	0.625	0.25	0.754	
*lab*nch*	0.25	0.25	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.577	0.0	−0.249	
*lab*tce*	0.625	0.25	0.75	
*lab*ncE*	0.25	0.25	b00r	

*c** = 0.25, *n** = 0.50

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.372	0.5	(1.0)
*cmyn3**	0.75	0.628	0.5	(0.0)
*olvi4**	0.75	0.872	1.0	0.5
*cmyn4**	0.25	0.128	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	43.3	0.29	−9.93	
*LAB*LABa*	43.3	0.27	−11.17	
*LAB*TCHa*	37.5	11.18	271.41	
relative* CIELAB *lab*				
*lab*lab*	0.327	0.006	−0.249	
*lab*tch*	0.375	0.25	0.754	
*lab*nch*	0.5	0.25	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.327	0.0	−0.249	
*lab*tce*	0.375	0.25	0.75	
*lab*ncE*	0.5	0.25	b00r	

*c** = 0.25, *n** = 0.75

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.122	0.25	(1.0)
*cmyn3**	1.0	0.878	0.75	(0.0)
*olvi4**	0.75	0.872	1.0	0.25
*cmyn4**	0.25	0.128	0.0	0.75
***standard* and *adapted* CIELAB**				
*LAB*LAB*	23.96	0.66	−11.23	
*LAB*LABa*	23.96	0.28	−11.16	
*LAB*TCHa*	12.5	11.18	271.43	
relative* CIELAB *lab*				
*lab*lab*	0.077	0.006	−0.249	
*lab*tch*	0.125	0.25	0.754	
*lab*nch*	0.75	0.25	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.077	0.0	−0.249	
*lab*tce*	0.125	0.25	0.75	
*lab*ncE*	0.75	0.25	b00r	

*c** = 0.50, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.5	0.744	1.0	(1.0)
*cmyn3**	0.5	0.256	0.0	(0.0)
*olvi4**	0.5	0.744	1.0	1.0
*cmyn4**	0.5	0.256	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	68.6	0.07	−19.39	
*LAB*LABa*	68.6	0.55	−22.34	
*LAB*TCHa*	75.0	22.36	271.4	
relative* CIELAB *lab*				
*lab*lab*	0.654	0.012	−0.499	
*lab*tch*	0.75	0.5	0.754	
*lab*nch*	0.0	0.5	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.654	0.0	−0.499	
*lab*tce*	0.75	0.5	0.75	
*lab*ncE*	0.0	0.5	g99b	

*c** = 0.50, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.494	0.75	(1.0)
*cmyn3**	0.75	0.506	0.25	(0.0)
*olvi4**	0.5	0.744	1.0	0.75
*cmyn4**	0.5	0.256	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	49.25	0.45	−20.7	
*LAB*LABa*	49.25	0.55	−22.35	
*LAB*TCHa*	50.0	22.36	271.41	
relative* CIELAB *lab*				
*lab*lab*	0.404	0.012	−0.499	
*lab*tch*	0.5	0.5	0.754	
*lab*nch*	0.25	0.5	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.404	0.0	−0.499	
*lab*tce*	0.5	0.5	0.75	
*lab*ncE*	0.25	0.5	b00r	

*c** = 0.50, *n** = 0.50

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.244	0.5	(1.0)
*cmyn3**	1.0	0.756	0.5	(0.0)
*olvi4**	0.5	0.744	1.0	0.5
*cmyn4**	0.5	0.256	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	29.9	0.82	−22.01	
*LAB*LABa*	29.9	0.55	−22.34	
*LAB*TCHa*	25.01	22.36	271.42	
relative* CIELAB *lab*				
*lab*lab*	0.154	0.012	−0.499	
*lab*tch*	0.25	0.5	0.754	
*lab*nch*	0.5	0.5	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.154	0.0	−0.499	
*lab*tce*	0.25	0.5	0.75	
*lab*ncE*	0.5	0.5	b00r	

*c** = 0.75, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.25	0.616	1.0	(1.0)
*cmyn3**	0.75	0.384	0.0	(0.0)
*olvi4**	0.25	0.616	1.0	1.0
*cmyn4**	0.75	0.384	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	55.19	0.61	−31.48	
*LAB*LABa*	55.19	0.82	−33.52	
*LAB*TCHa*	62.5	33.54	271.4	
relative* CIELAB *lab*				
*lab*lab*	0.48	0.018	−0.749	
*lab*tch*	0.625	0.75	0.754	
*lab*nch*	0.0	0.75	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.48	0.0	−0.749	
*lab*tce*	0.625	0.75	0.75	
*lab*ncE*	0.0	0.75	g99b	

*c** = 0.75, *n** = 0.25

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.366	0.75	(1.0)
*cmyn3**	1.0	0.634	0.25	(0.0)
*olvi4**	0.25	0.616	1.0	0.75
*cmyn4**	0.75	0.384	0.0	0.25
***standard* and *adapted* CIELAB**				
*LAB*LAB*	35.84	0.98	−32.78	
*LAB*LABa*	35.84	0.83	−33.52	
*LAB*TCHa*	37.51	33.54	271.41	
relative* CIELAB *lab*				
*lab*lab*	0.23	0.019	−0.749	
*lab*tch*	0.375	0.75	0.754	
*lab*nch*	0.25	0.75	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.23	0.0	−0.749	
*lab*tce*	0.375	0.75	0.75	
*lab*ncE*	0.25	0.75	b00r	

*c** = 1.00, *n** = 0.00

relative **Inform. Technology (IT)**				
*olvi3**	0.0	0.488	1.0	(1.0)
*cmyn3**	1.0	0.512	0.0	(0.0)
*olvi4**	0.0	0.488	1.0	1.0
*cmyn4**	1.0	0.512	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	41.79	1.14	−43.55	
*LAB*LABa*	41.79	1.1	−44.69	
*LAB*TCHa*	50.0	44.71	271.41	
relative* CIELAB *lab*				
*lab*lab*	0.307	0.025	−0.998	
*lab*tch*	0.5	1.0	0.754	
*lab*nch*	0.0	1.0	0.754	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.307	0.0	−0.999	
*lab*tce*	0.5	1.0	0.75	
*lab*ncE*	0.0	1.0	b00r	

*n** = 0,00 *n** = 0,25 *n** = 0,50 *n** = 1,0

blackness *n**

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

chromaticness *c**

BAM registration: 20060101-OE56/10S/S56E09NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

OE560−7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left) 5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18 input: *cmy0* setcmykcolor*
D65: 2 coordinate data of 5 step colour scales for 10 hues output: *no change compared to input*