See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

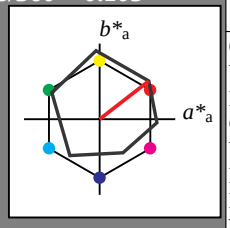
BAM registration: 20060101-QE00/10Q/Q00E00SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

Input: Colorimetric Offset Reflective System ORS18

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

D50: hue O
LCH*Ma: 48 82 38
olv*Ma: 1.0 0.0 0.0

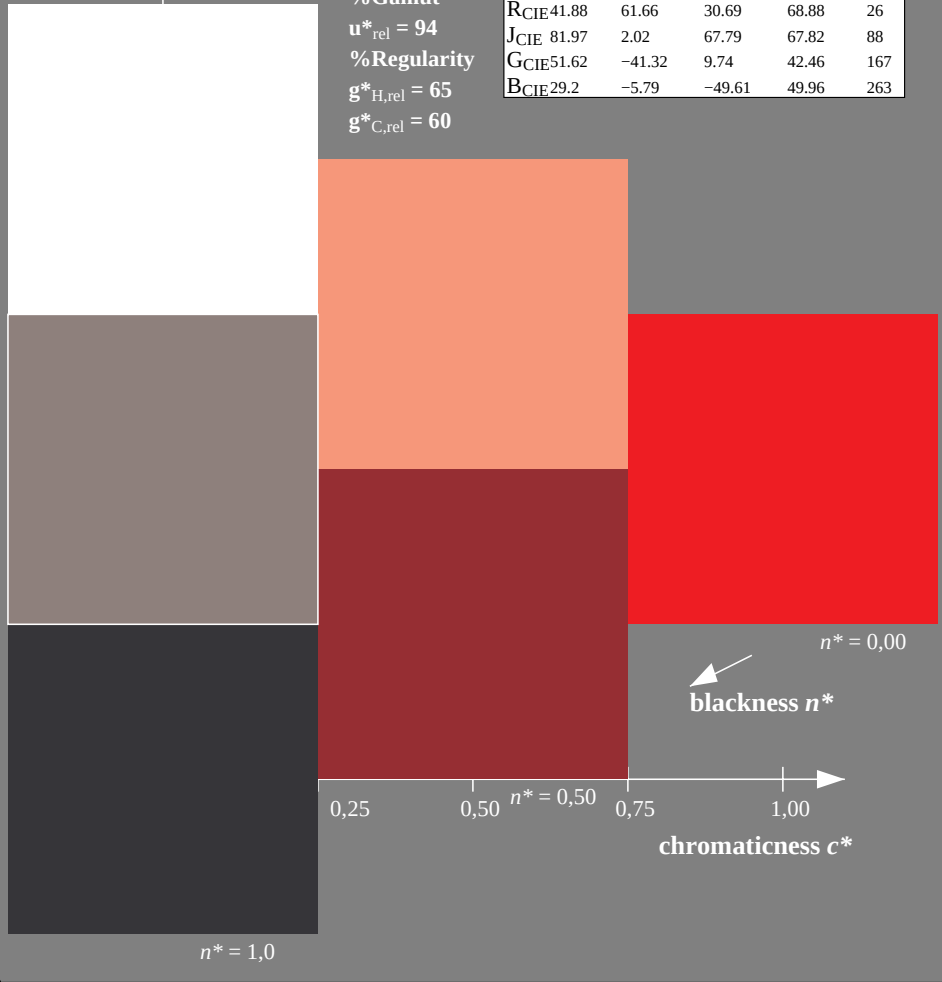
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

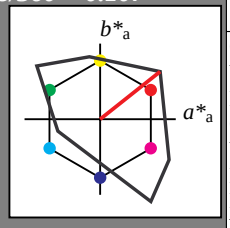


Output: Colorimetric Television Luminous System TLS00

for hue *h* = lab*h = 38/360 = 0.107*
*lab*tch* and *lab*nch*

D50: hue O
LCH*Ma: 54 101 38
olv*Ma: 1.0 0.0 0.0

triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45

***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	–

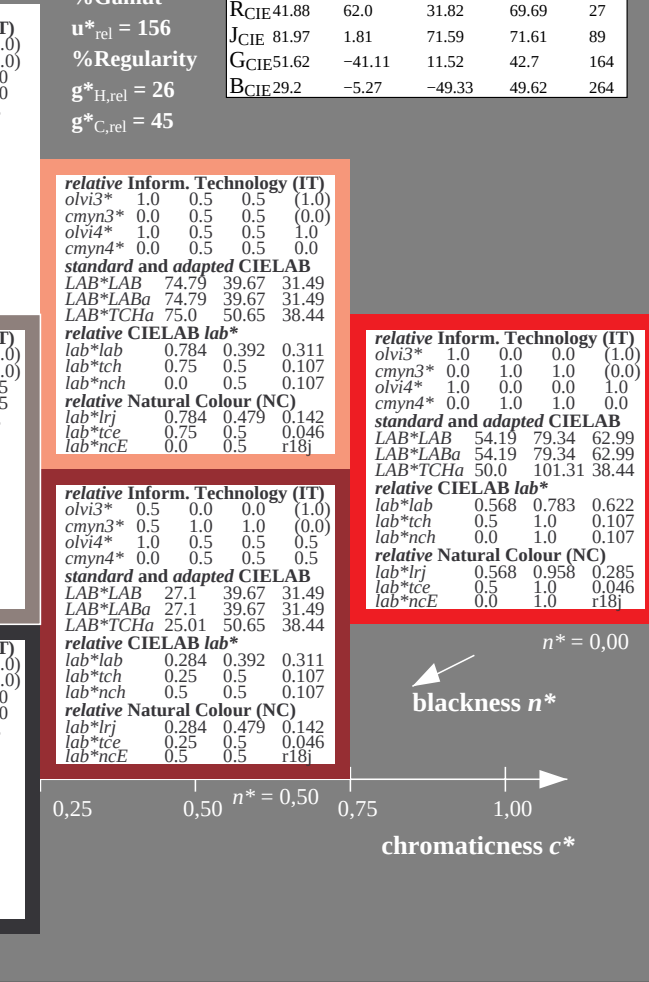
***relative* Inform. Technology (IT)**			
*olvi3**	0.5	0.5	0.5 (1.0)
*cmyn3**	0.5	0.5	0.5 (0.0)
*olvi4**	1.0	1.0	1.0 0.5
*cmyn4**	0.0	0.0	0.0 0.5
***standard* and *adapted* CIELAB**			
*LAB*LAB*	47.72	0.0	0.0
*LAB*LABa*	47.72	0.0	0.0
*LAB*TCHa*	50.0	0.01	–
relative* CIELAB *lab*			
*lab*lab*	0.5	0.0	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	–

***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*	0.03	0.0	0.0
*LAB*LABa*	0.03	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	–

***relative* Inform. Technology (IT)**			
*olvi3**	1.0	0.5	0.5 (1.0)
*cmyn3**	0.0	0.5	0.5 (0.0)
*olvi4**	1.0	0.5	0.5 1.0
*cmyn4**	0.0	0.5	0.5 0.0
***standard* and *adapted* CIELAB**			
*LAB*LAB*	74.79	39.67	31.49
*LAB*LABa*	74.79	39.67	31.49
*LAB*TCHa*	75.0	50.65	38.44
relative* CIELAB *lab*			
*lab*lab*	0.784	0.392	0.311
*lab*tch*	0.75	0.5	0.107
*lab*nch*	0.0	0.5	0.107
***relative* Natural Colour (NC)**			
*lab*lrj*	0.784	0.479	0.142
*lab*tce*	0.75	0.5	0.046
*lab*ncE*	0.0	0.5	r18j

***relative* Inform. Technology (IT)**			
*olvi3**	0.5	0.0	0.0 (1.0)
*cmyn3**	0.5	1.0	1.0 (0.0)
*olvi4**	1.0	0.5	0.5 0.5
*cmyn4**	0.0	0.5	0.5 0.5
***standard* and *adapted* CIELAB**			
*LAB*LAB*	27.1	39.67	31.49
*LAB*LABa*	27.1	39.67	31.49
*LAB*TCHa*	25.01	50.65	38.44
relative* CIELAB *lab*			
*lab*lab*	0.284	0.392	0.311
*lab*tch*	0.25	0.5	0.107
*lab*nch*	0.5	0.5	0.107
***relative* Natural Colour (NC)**			
*lab*lrj*	0.284	0.479	0.142
*lab*tce*	0.25	0.5	0.046
*lab*ncE*	0.5	0.5	r18j

***relative* Inform. Technology (IT)**			
*olvi3**	1.0	0.0	0.0 (1.0)
*cmyn3**	0.0	1.0	1.0 (0.0)
*olvi4**	1.0	0.0	0.0 1.0
*cmyn4**	0.0	1.0	1.0 0.0
***standard* and *adapted* CIELAB**			
*LAB*LAB*	54.19	79.34	62.99
*LAB*LABa*	54.19	79.34	62.99
*LAB*TCHa*	50.0	101.31	38.44
relative* CIELAB *lab*			
*lab*lab*	0.568	0.783	0.622
*lab*tch*	0.5	1.0	0.107
*lab*nch*	0.0	1.0	0.107
***relative* Natural Colour (NC)**			
*lab*lrj*	0.568	0.958	0.285
*lab*tce*	0.5	1.0	0.046
*lab*ncE*	0.0	1.0	r18j



QE000−7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)
3 step scales for constant CIELAB hue 38/360 = 0.107 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

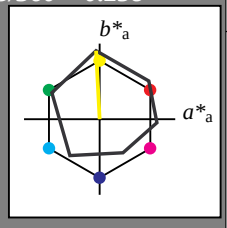
See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM registration: 20060101-QE00/10Q/Q00E01SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 2/10, Serie: 1/1, Page: 2 Page: count: 2

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 93/360 = 0.258**
lab*tch* and *lab*nch

D50: hue Y
LCH*Ma: 91 91 93
olv*Ma: 1.0 1.0 0.0

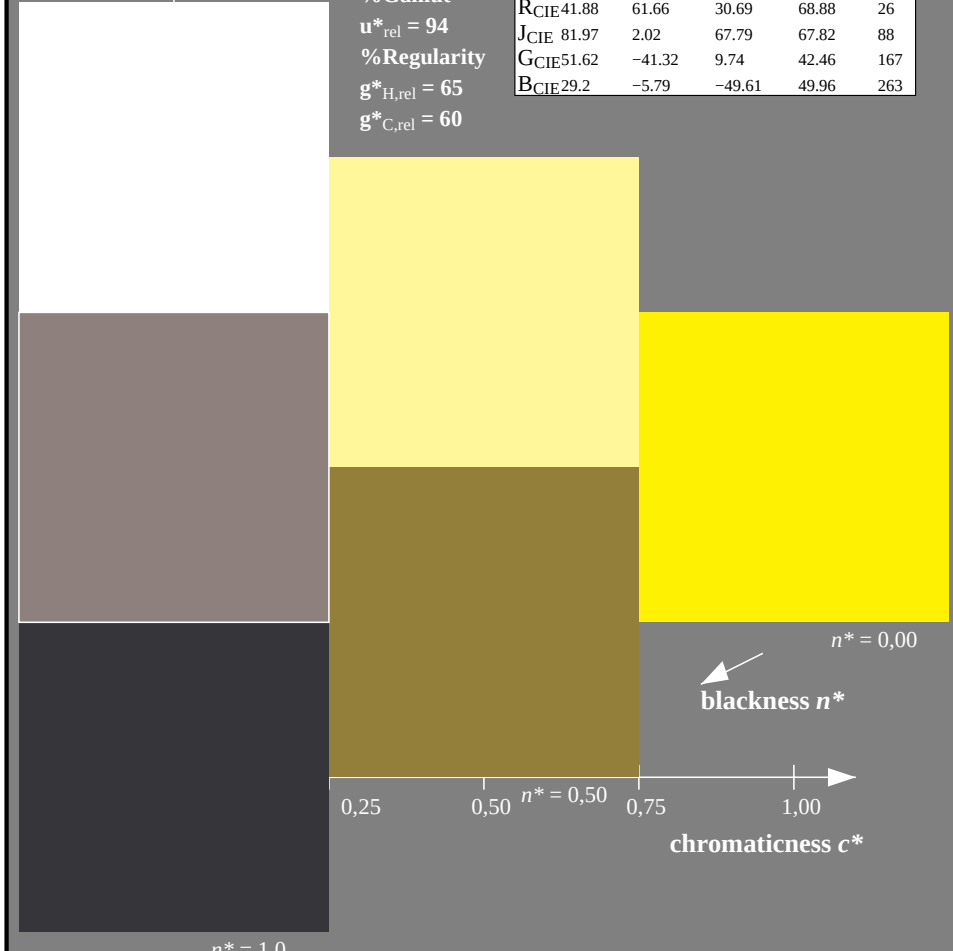
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

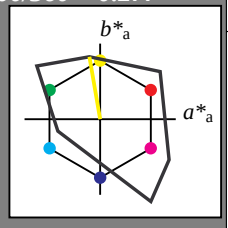
%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60



Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 100/360 = 0.277**
lab*tch* and *lab*nch

D50: hue Y
LCH*Ma: 93 84 100
olv*Ma: 1.0 1.0 0.0

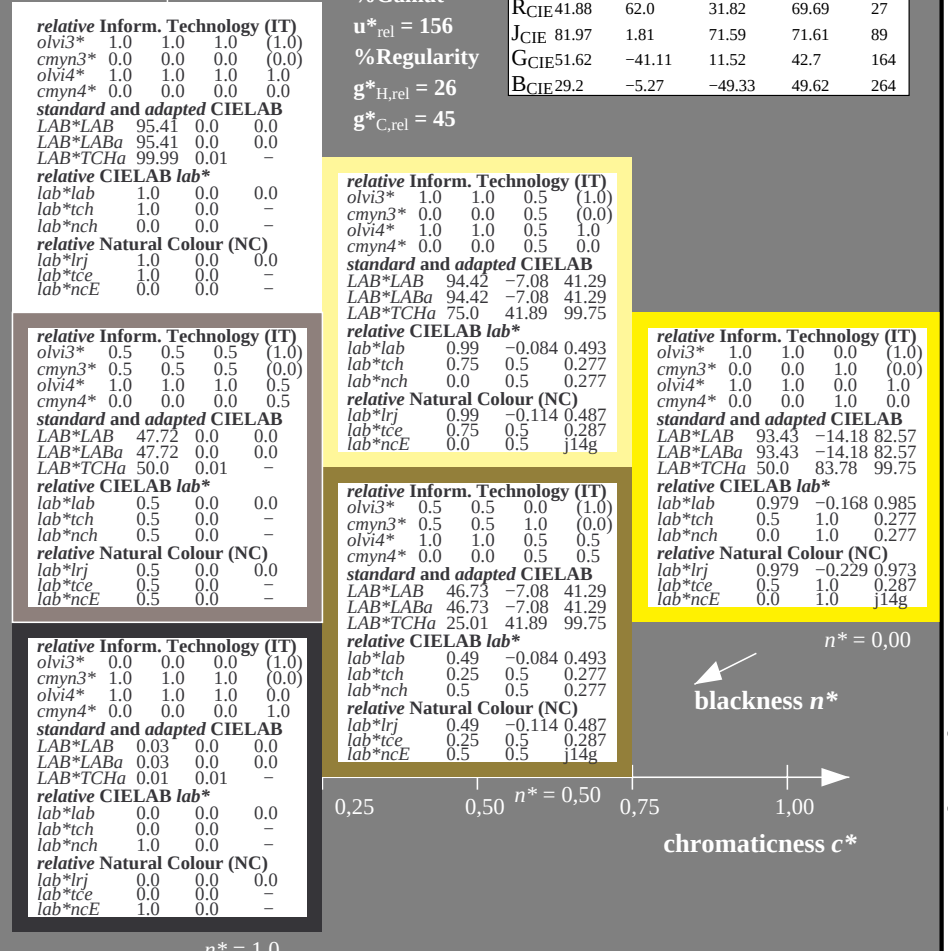
triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45



QE000−7, 3 step scales for constant CIELAB hue 93/360 = 0.258 (left)
3 step scales for constant CIELAB hue 100/360 = 0.277 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

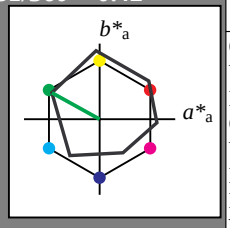
BAM registration: 20060101-QE00/10Q/Q00E02SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 3/10, Serie: 1/1, Page: 3 Page: count: 3

Input: Colorimetric Offset Reflective System ORS18

for hue *h** = *lab*h* = 151/360 = 0.42
*lab*tch* and *lab*nch*

D50: hue L
LCH*Ma: 51 72 151
olv*Ma: 0.0 1.0 0.0

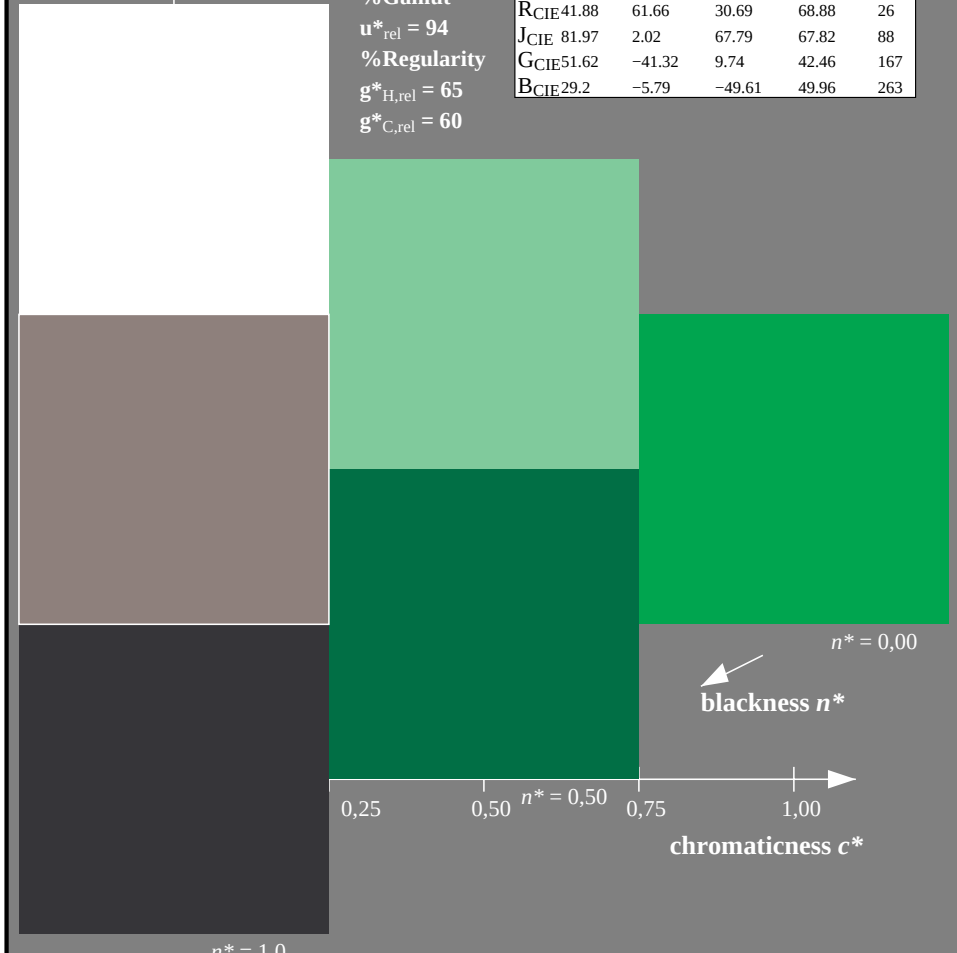
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

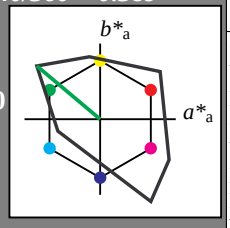


Output: Colorimetric Television Luminous System TLS00

for hue *h** = *lab*h* = 140/360 = 0.389
*lab*tch* and *lab*nch*

D50: hue L
LCH*Ma: 83 109 140
olv*Ma: 0.0 1.0 0.0

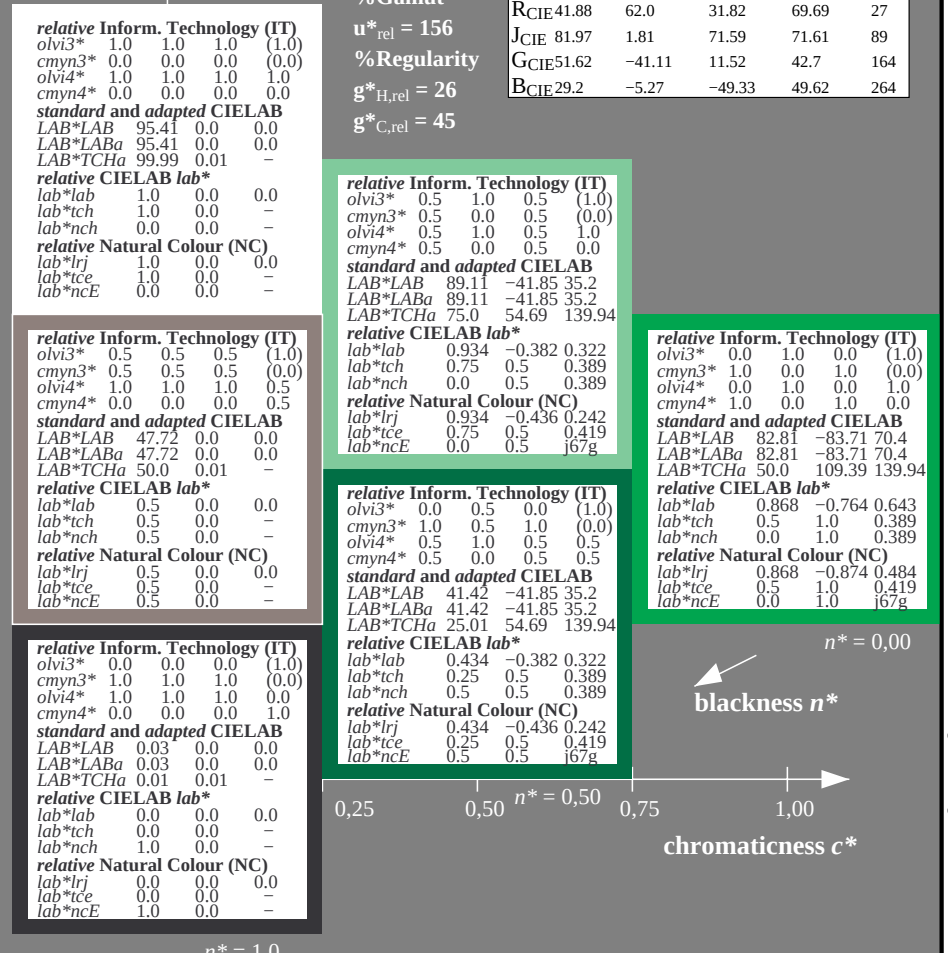
triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45



***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	–	

***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*	47.72	0.0	0.0	
*LAB*LABa*	47.72	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	–	

***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*	0.03	0.0	0.0	
*LAB*LABa*	0.03	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	–	

***relative* Inform. Technology (IT)**				
*olvi3**	0.5	1.0	0.5	(1.0)
*cmyn3**	0.5	0.0	0.5	(0.0)
*olvi4**	0.5	1.0	0.5	1.0
*cmyn4**	0.5	0.0	0.5	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	89.11	−41.85	35.2	
*LAB*LABa*	89.11	−41.85	35.2	
*LAB*TCHa*	75.0	54.69	139.94	
relative* CIELAB *lab*				
*lab*lab*	0.934	−0.382	0.322	
*lab*tch*	0.75	0.5	0.389	
*lab*nch*	0.0	0.5	0.389	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.934	−0.436	0.242	
*lab*tce*	0.75	0.5	0.419	
*lab*ncE*	0.0	0.5	j67g	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	0.5	0.0	(1.0)
*cmyn3**	1.0	0.5	1.0	(0.0)
*olvi4**	0.5	1.0	0.5	0.5
*cmyn4**	0.5	0.0	0.5	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	41.42	−41.85	35.2	
*LAB*LABa*	41.42	−41.85	35.2	
*LAB*TCHa*	25.01	54.69	139.94	
relative* CIELAB *lab*				
*lab*lab*	0.434	−0.382	0.322	
*lab*tch*	0.25	0.5	0.389	
*lab*nch*	0.5	0.5	0.389	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.434	−0.436	0.242	
*lab*tce*	0.25	0.5	0.419	
*lab*ncE*	0.5	0.5	j67g	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	82.81	−83.71	70.4	
*LAB*LABa*	82.81	−83.71	70.4	
*LAB*TCHa*	50.0	109.39	139.94	
relative* CIELAB *lab*				
*lab*lab*	0.868	−0.764	0.643	
*lab*tch*	0.5	1.0	0.389	
*lab*nch*	0.0	1.0	0.389	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.868	−0.874	0.484	
*lab*tce*	0.5	1.0	0.419	
*lab*ncE*	0.0	1.0	j67g	

QE000−7, 3 step scales for constant CIELAB hue 151/360 = 0.42 (left)
3 step scales for constant CIELAB hue 140/360 = 0.389 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

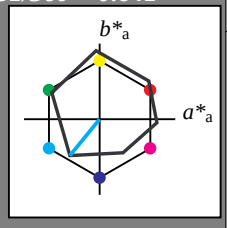
See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM registration: 20060101-QE00/10Q/Q00E03SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 4/10, Serie: 1/1, Page: 4 Page: count: 4

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 231/360 = 0.641**
lab*tch* and *lab*nch

D50: hue C
LCH*Ma: 57 62 231
olv*Ma: 0.0 1.0 1.0

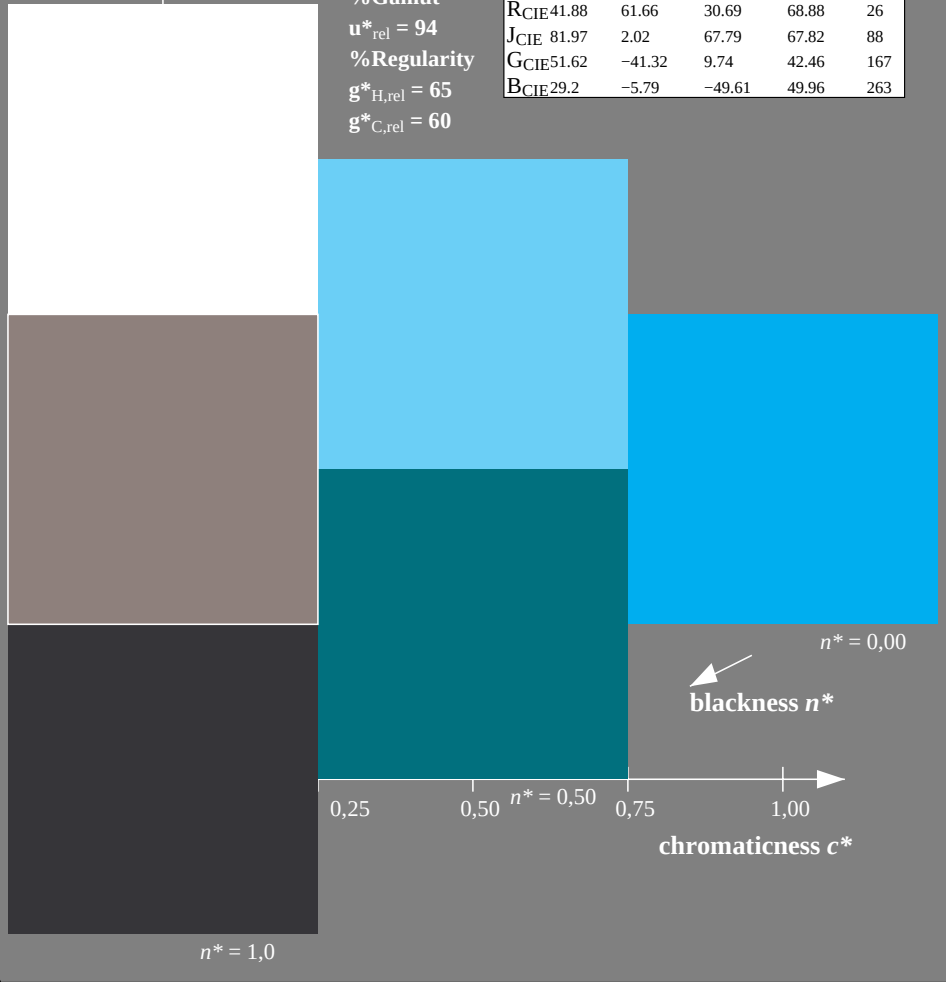
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L** = *L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

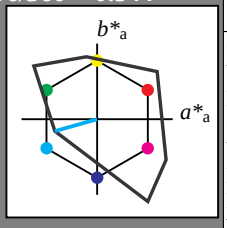
%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60



Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 196/360 = 0.544**
lab*tch* and *lab*nch

D50: hue C
LCH*Ma: 85 58 196
olv*Ma: 0.0 1.0 1.0

triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L** = *L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45

***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	–

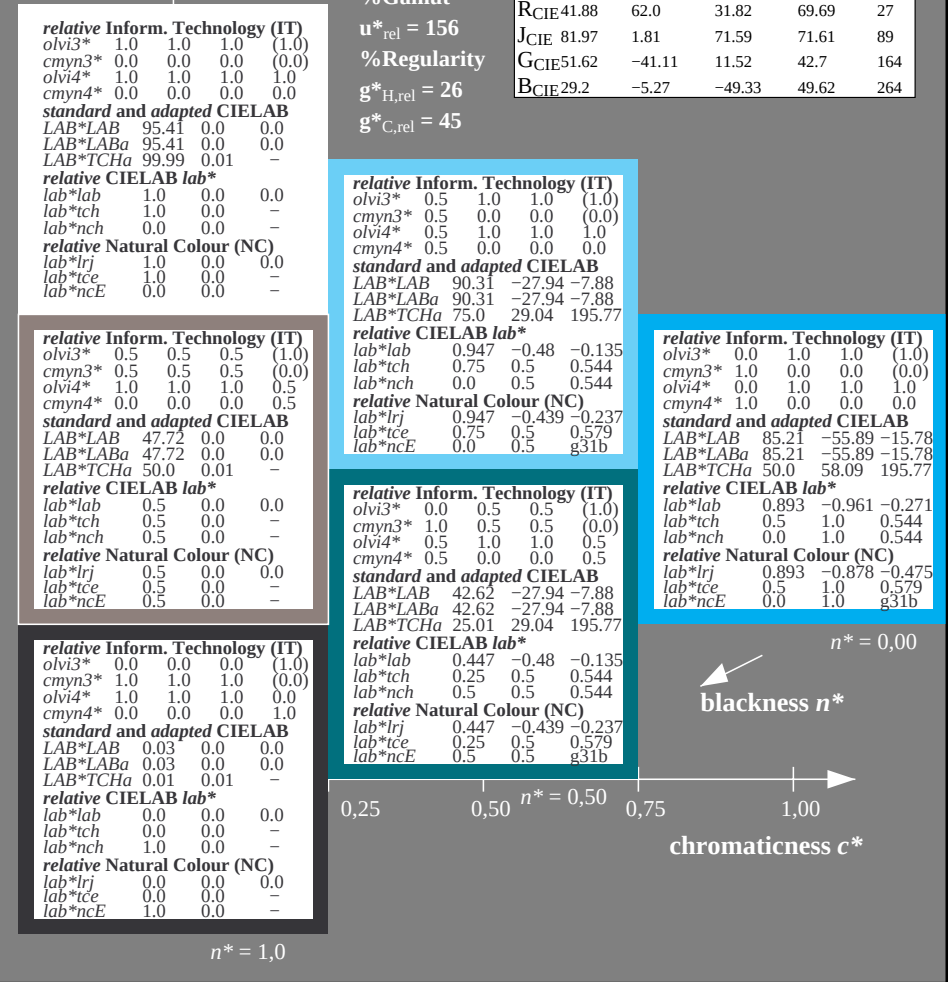
***relative* Inform. Technology (IT)**			
*olvi3**	0.5	0.5	0.5	(1.0)
*cmyn3**	0.5	0.5	0.5	(0.0)
*olvi4**	1.0	1.0	1.0	0.5
*cmyn4**	0.0	0.0	0.0	0.5
***standard* and *adapted* CIELAB**			
*LAB*LAB*	47.72	0.0	0.0
*LAB*LABa*	47.72	0.0	0.0
*LAB*TCHa*	50.0	0.01	–
relative* CIELAB *lab*			
*lab*lab*	0.5	0.0	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	–

***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*	0.03	0.0	0.0
*LAB*LABa*	0.03	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	–

***relative* Inform. Technology (IT)**			
*olvi3**	0.5	1.0	1.0	(1.0)
*cmyn3**	0.5	0.0	0.0	(0.0)
*olvi4**	0.5	1.0	1.0	1.0
*cmyn4**	0.5	0.0	0.0	0.0
***standard* and *adapted* CIELAB**			
*LAB*LAB*	90.31	−27.94	−7.88
*LAB*LABa*	90.31	−27.94	−7.88
*LAB*TCHa*	75.0	29.04	195.77
relative* CIELAB *lab*			
*lab*lab*	0.947	−0.48	−0.135
*lab*tch*	0.75	0.5	0.544
*lab*nch*	0.0	0.5	0.544
***relative* Natural Colour (NC)**			
*lab*lrj*	0.947	−0.439	−0.237
*lab*tce*	0.75	0.5	0.579
*lab*ncE*	0.0	0.5	g31b

***relative* Inform. Technology (IT)**			
*olvi3**	0.0	0.5	0.5	(1.0)
*cmyn3**	1.0	0.5	0.5	(0.0)
*olvi4**	0.5	1.0	1.0	0.5
*cmyn4**	0.5	0.0	0.0	0.5
***standard* and *adapted* CIELAB**			
*LAB*LAB*	42.62	−27.94	−7.88
*LAB*LABa*	42.62	−27.94	−7.88
*LAB*TCHa*	25.01	29.04	195.77
relative* CIELAB *lab*			
*lab*lab*	0.447	−0.48	−0.135
*lab*tch*	0.25	0.5	0.544
*lab*nch*	0.5	0.5	0.544
***relative* Natural Colour (NC)**			
*lab*lrj*	0.447	−0.439	−0.237
*lab*tce*	0.25	0.5	0.579
*lab*ncE*	0.5	0.5	g31b

***relative* Inform. Technology (IT)**			
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
***standard* and *adapted* CIELAB**			
*LAB*LAB*	85.21	−55.89	−15.78
*LAB*LABa*	85.21	−55.89	−15.78
*LAB*TCHa*	50.0	58.09	195.77
relative* CIELAB *lab*			
*lab*lab*	0.893	−0.961	−0.271
*lab*tch*	0.5	1.0	0.544
*lab*nch*	0.0	1.0	0.544
***relative* Natural Colour (NC)**			
*lab*lrj*	0.893	−0.878	−0.475
*lab*tce*	0.5	1.0	0.579
*lab*ncE*	0.0	1.0	g31b



QE000−7, 3 step scales for constant CIELAB hue 231/360 = 0.641 (left)
3 step scales for constant CIELAB hue 196/360 = 0.544 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

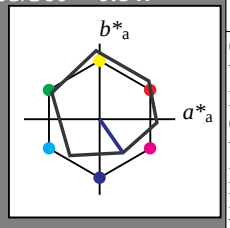
See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM registration: 20060101-QE00/10Q/Q00E04SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 5/10, Serie: 1/1, Page: 5 Page: count: 5

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 305/360 = 0.847**
lab*tch* and *lab*nch

D50: hue V
LCH*Ma: 26 54 305
olv*Ma: 0.0 0.0 1.0

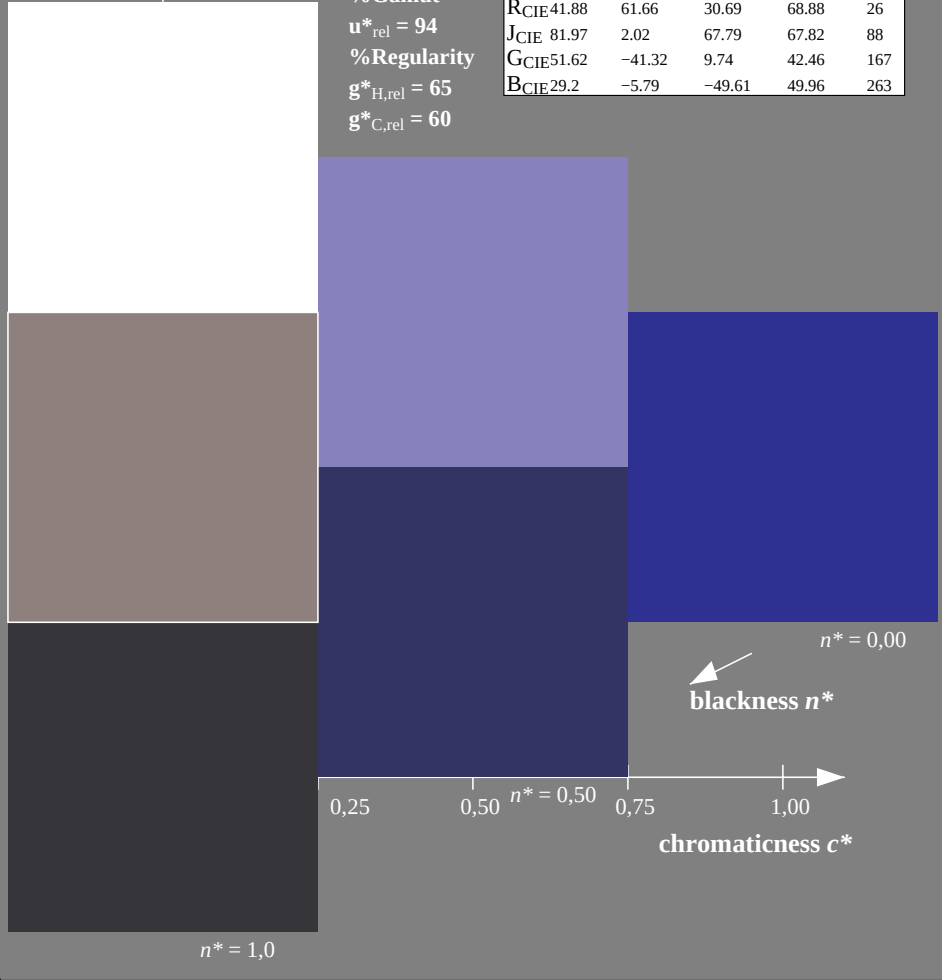
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

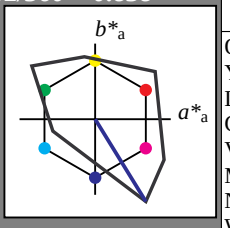
%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60



Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 302/360 = 0.838**
lab*tch* and *lab*nch

D50: hue V
LCH*Ma: 26 128 302
olv*Ma: 0.0 0.0 1.0

triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45

***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	–	

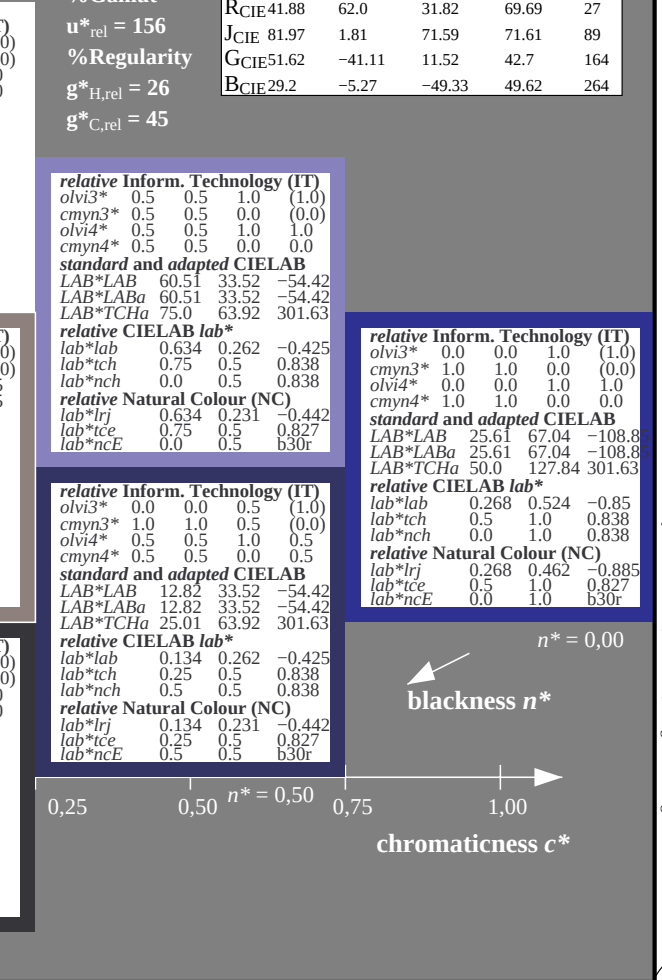
***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.5	0.5	(1.0)
*cmyn3**	0.5	0.5	0.5	(0.0)
*olvi4**	1.0	1.0	1.0	0.5
*cmyn4**	0.0	0.0	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	47.72	0.0	0.0	
*LAB*LABa*	47.72	0.0	0.0	
*LAB*TCHa*	50.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.5	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	–	

***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*	0.03	0.0	0.0	
*LAB*LABa*	0.03	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	–	

***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.5	1.0	(1.0)
*cmyn3**	0.5	0.5	0.0	(0.0)
*olvi4**	0.5	0.5	1.0	1.0
*cmyn4**	0.5	0.5	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	60.51	33.52	−54.42	
*LAB*LABa*	60.51	33.52	−54.42	
*LAB*TCHa*	75.0	63.92	301.63	
relative* CIELAB *lab*				
*lab*lab*	0.634	0.262	−0.425	
*lab*tch*	0.75	0.5	0.838	
*lab*nch*	0.0	0.5	0.838	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.634	0.231	−0.442	
*lab*tce*	0.75	0.5	0.827	
*lab*ncE*	0.0	0.5	b30r	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	0.0	0.5	(1.0)
*cmyn3**	1.0	1.0	0.5	(0.0)
*olvi4**	0.5	0.5	1.0	0.5
*cmyn4**	0.5	0.5	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	12.82	33.52	−54.42	
*LAB*LABa*	12.82	33.52	−54.42	
*LAB*TCHa*	25.01	63.92	301.63	
relative* CIELAB *lab*				
*lab*lab*	0.134	0.262	−0.425	
*lab*tch*	0.25	0.5	0.838	
*lab*nch*	0.5	0.5	0.838	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.134	0.231	−0.442	
*lab*tce*	0.25	0.5	0.827	
*lab*ncE*	0.5	0.5	b30r	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	25.61	67.04	−108.8	
*LAB*LABa*	25.61	67.04	−108.8	
*LAB*TCHa*	50.0	127.84	301.63	
relative* CIELAB *lab*				
*lab*lab*	0.268	0.524	−0.85	
*lab*tch*	0.5	1.0	0.838	
*lab*nch*	0.0	1.0	0.838	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.268	0.462	−0.885	
*lab*tce*	0.5	1.0	0.827	
*lab*ncE*	0.0	1.0	b30r	



QE000−7, 3 step scales for constant CIELAB hue 305/360 = 0.847 (left)
3 step scales for constant CIELAB hue 302/360 = 0.838 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

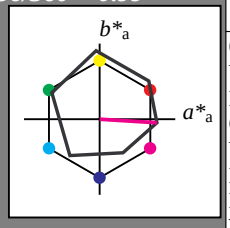
input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 356/360 = 0.99**
lab*tch* and *lab*nch

D50: hue M
LCH*Ma: 50 76 356
olv*Ma: 1.0 0.0 1.0

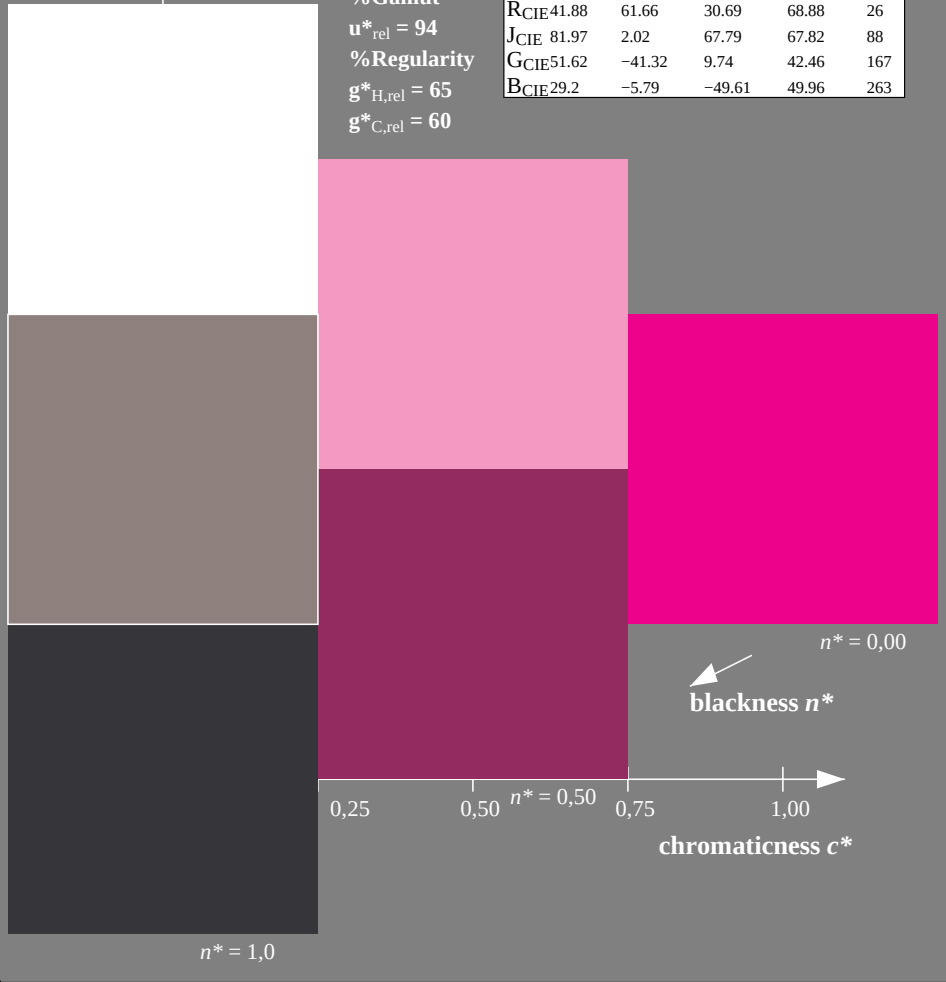
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

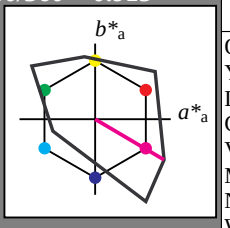
%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60



Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 330/360 = 0.915**
lab*tch* and *lab*nch

D50: hue M
LCH*Ma: 59 106 330
olv*Ma: 1.0 0.0 1.0

triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45

***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	–	

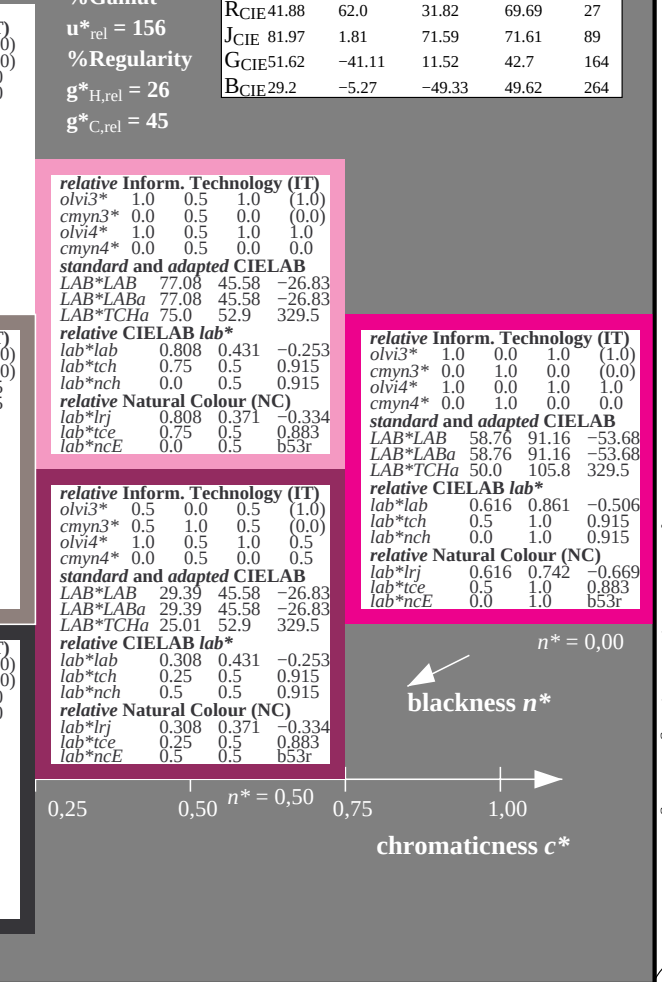
***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.5	0.5	(1.0)
*cmyn3**	0.5	0.5	0.5	(0.0)
*olvi4**	1.0	1.0	1.0	0.5
*cmyn4**	0.0	0.0	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	47.72	0.0	0.0	
*LAB*LABa*	47.72	0.0	0.0	
*LAB*TCHa*	50.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	0.5	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	–	

***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*	0.03	0.0	0.0	
*LAB*LABa*	0.03	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	–	

***relative* Inform. Technology (IT)**				
*olvi3**	1.0	0.5	1.0	(1.0)
*cmyn3**	0.0	0.5	0.0	(0.0)
*olvi4**	1.0	0.5	1.0	1.0
*cmyn4**	0.0	0.5	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	77.08	45.58	−26.83	
*LAB*LABa*	77.08	45.58	−26.83	
*LAB*TCHa*	75.0	52.9	329.5	
relative* CIELAB *lab*				
*lab*lab*	0.808	0.431	−0.253	
*lab*tch*	0.75	0.5	0.915	
*lab*nch*	0.0	0.5	0.915	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.808	0.371	−0.334	
*lab*tce*	0.75	0.5	0.883	
*lab*ncE*	0.0	0.5	b53r	

***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.0	0.5	(1.0)
*cmyn3**	0.5	1.0	0.5	(0.0)
*olvi4**	1.0	0.5	1.0	0.5
*cmyn4**	0.0	0.5	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	29.39	45.58	−26.83	
*LAB*LABa*	29.39	45.58	−26.83	
*LAB*TCHa*	25.01	52.9	329.5	
relative* CIELAB *lab*				
*lab*lab*	0.308	0.431	−0.253	
*lab*tch*	0.25	0.5	0.915	
*lab*nch*	0.5	0.5	0.915	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.308	0.371	−0.334	
*lab*tce*	0.25	0.5	0.883	
*lab*ncE*	0.5	0.5	b53r	

***relative* Inform. Technology (IT)**				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	58.76	91.16	−53.68	
*LAB*LABa*	58.76	91.16	−53.68	
*LAB*TCHa*	50.0	105.8	329.5	
relative* CIELAB *lab*				
*lab*lab*	0.616	0.861	−0.506	
*lab*tch*	0.5	1.0	0.915	
*lab*nch*	0.0	1.0	0.915	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.616	0.742	−0.669	
*lab*tce*	0.5	1.0	0.883	
*lab*ncE*	0.0	1.0	b53r	



QE000−7, 3 step scales for constant CIELAB hue 356/360 = 0.99 (left)
3 step scales for constant CIELAB hue 330/360 = 0.915 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

BAM registration: 20060101-QE00/10Q/Q00E05SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 6/10, Serie: 1/1, Page: 6 Page: count: 6

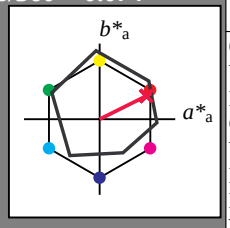
See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM registration: 20060101-QE00/10Q/Q00E06SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 7/10, Serie: 1/1, Page: 7 Page: count: 7

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 26/360 = 0.074**
lab*tch* and *lab*nch

D50: hue R
LCH*Ma: 49 76 26
olv*Ma: 1.0 0.0 0.3

triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

***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	–

***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*	47.72	0.0	0.0
*LAB*LABa*	47.72	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	–

***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*	0.03	0.0	0.0
*LAB*LABa*	0.03	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)**

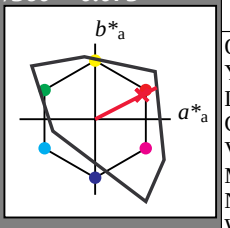
*lab*lrj*	0.0	0.0	0.0
*lab*tce*	0.0	0.0	–
*lab*ncE*	1.0	0.0	–

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

Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 27/360 = 0.075**
lab*tch* and *lab*nch

D50: hue R
LCH*Ma: 55 92 27
olv*Ma: 1.0 0.0 0.18

triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45

***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	–

***relative* Inform. Technology (IT)**

*olvi3**	1.0	0.5	0.591 (1.0)
*cmyn3**	0.0	0.5	0.409 (0.0)
*olvi4**	1.0	0.5	0.591 1.0
*cmyn4**	0.0	0.5	0.409 0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	75.21	40.74	20.91
*LAB*LABa*	75.21	40.74	20.91
*LAB*TCHa*	75.0	45.8	27.17

relative* CIELAB *lab*

*lab*lab*	0.788	0.445	0.228
*lab*tch*	0.75	0.5	0.075
*lab*nch*	0.0	0.5	0.075

***relative* Natural Colour (NC)**

*lab*lrj*	0.788	0.5	0.0
*lab*tce*	0.75	0.5	1.0
*lab*ncE*	0.0	0.5	b99r

***relative* Inform. Technology (IT)**

*olvi3**	0.5	0.0	0.091 (1.0)
*cmyn3**	0.5	1.0	0.909 (0.0)
*olvi4**	1.0	0.5	0.591 0.5
*cmyn4**	0.0	0.5	0.409 0.5

***standard* and *adapted* CIELAB**

*LAB*LAB*	27.52	40.74	20.92
*LAB*LABa*	27.52	40.74	20.92
*LAB*TCHa*	25.01	45.8	27.18

relative* CIELAB *lab*

*lab*lab*	0.288	0.445	0.228
*lab*tch*	0.25	0.5	0.075
*lab*nch*	0.5	0.5	0.075

***relative* Natural Colour (NC)**

*lab*lrj*	0.288	0.5	0.0
*lab*tce*	0.25	0.5	0.0
*lab*ncE*	0.5	0.5	r00j

***relative* Inform. Technology (IT)**

*olvi3**	1.0	0.0	0.181 (1.0)
*cmyn3**	0.0	1.0	0.819 (0.0)
*olvi4**	1.0	0.0	0.182 1.0
*cmyn4**	0.0	1.0	0.818 0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	55.02	81.49	41.83
*LAB*LABa*	55.02	81.49	41.83
*LAB*TCHa*	50.0	91.6	27.17

relative* CIELAB *lab*

*lab*lab*	0.577	0.889	0.457
*lab*tch*	0.5	1.0	0.075
*lab*nch*	0.0	1.0	0.075

***relative* Natural Colour (NC)**

*lab*lrj*	0.577	1.0	0.0
*lab*tce*	0.5	1.0	0.0
*lab*ncE*	0.0	1.0	r00j

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

QE000−7, 3 step scales for constant CIELAB hue 26/360 = 0.074 (left)
3 step scales for constant CIELAB hue 27/360 = 0.075 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

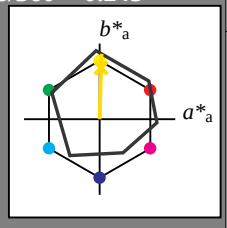
BAM registration: 20060101-QE00/10Q/Q00E07SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 8/10, Serie: 1/1, Page: 8 Page: count: 8

Input: Colorimetric Offset Reflective System ORS18

for hue *h** = *lab*h* = 88/360 = 0.245
*lab*tch* and *lab*nch*

D50: hue J
LCH*Ma: 86 86 88
olv*Ma: 1.0 0.9 0.0

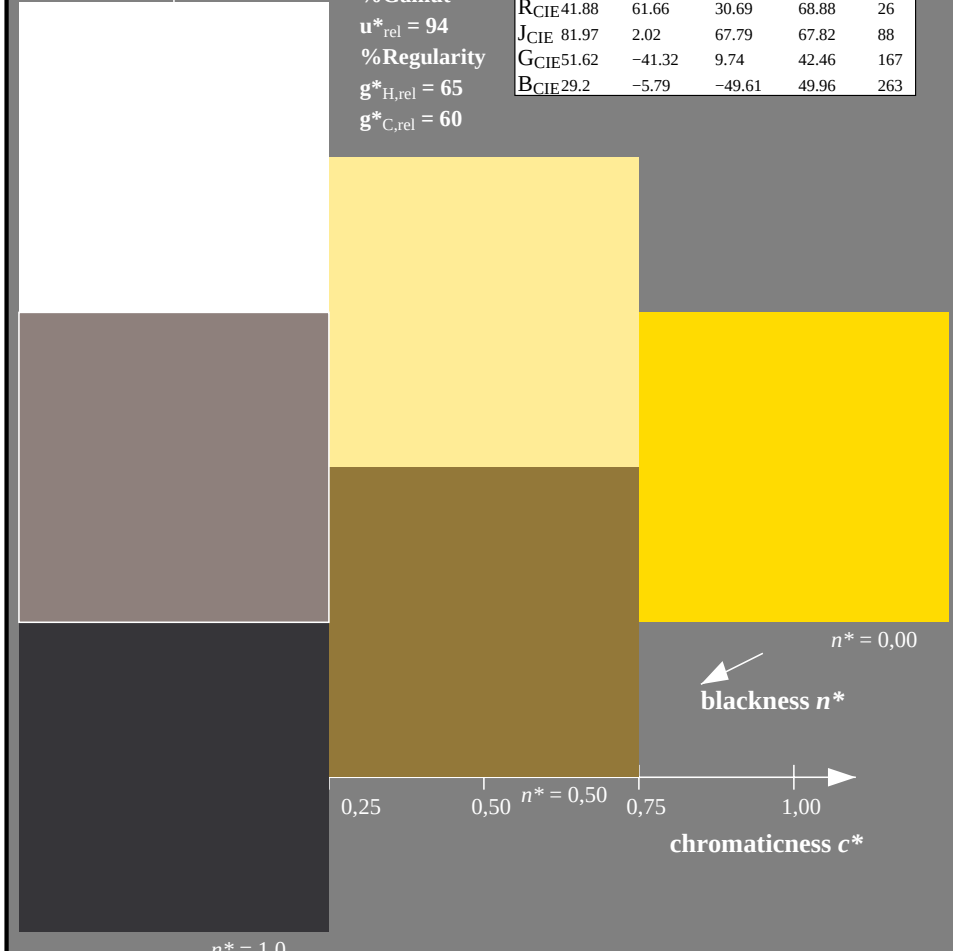
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

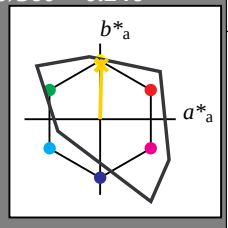


Output: Colorimetric Television Luminous System TLS00

for hue *h** = *lab*h* = 89/360 = 0.246
*lab*tch* and *lab*nch*

D50: hue J
LCH*Ma: 87 79 89
olv*Ma: 1.0 0.83 0.0

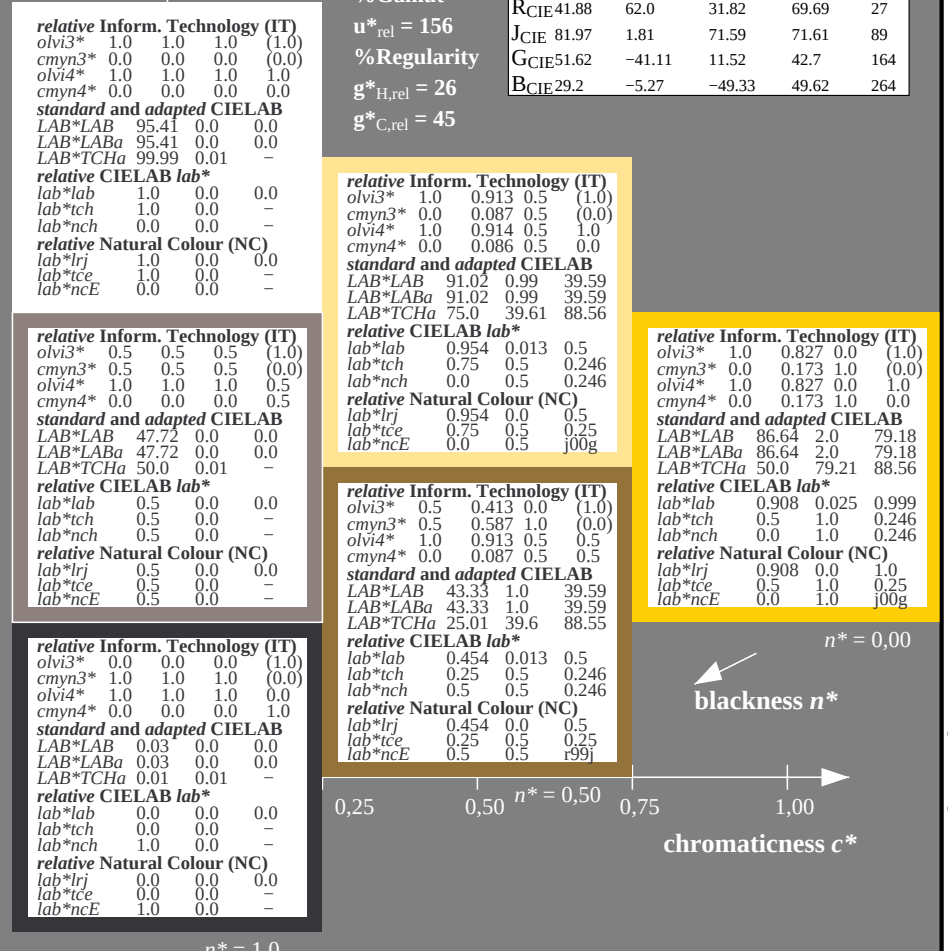
triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45



QE000−7, 3 step scales for constant CIELAB hue 88/360 = 0.245 (left)
3 step scales for constant CIELAB hue 89/360 = 0.246 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

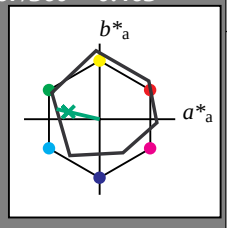
BAM registration: 20060101-QE00/10Q/Q00E08SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 9/10, Serie: 1/1, Page: 9 Page: count: 9

Input: Colorimetric Offset Reflective System ORS18

for hue *h** = *lab*h* = 167/360 = 0.463
*lab*tch* and *lab*nch*

D50: hue G
LCH*Ma: 52 59 167
olv*Ma: 0.0 1.0 0.26

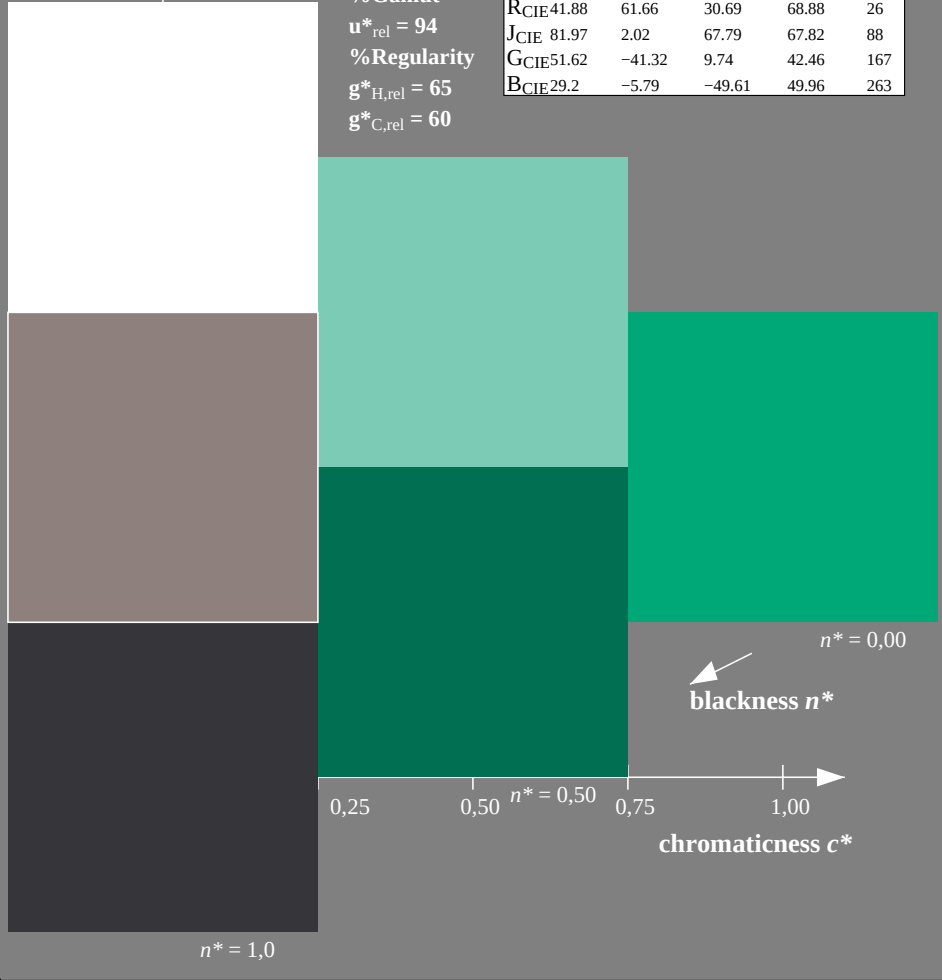
triangle lightness *t**



ORS18; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

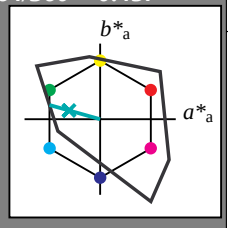


Output: Colorimetric Television Luminous System TLS00

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

D50: hue G
LCH*Ma: 84 70 164
olv*Ma: 0.0 1.0 0.6

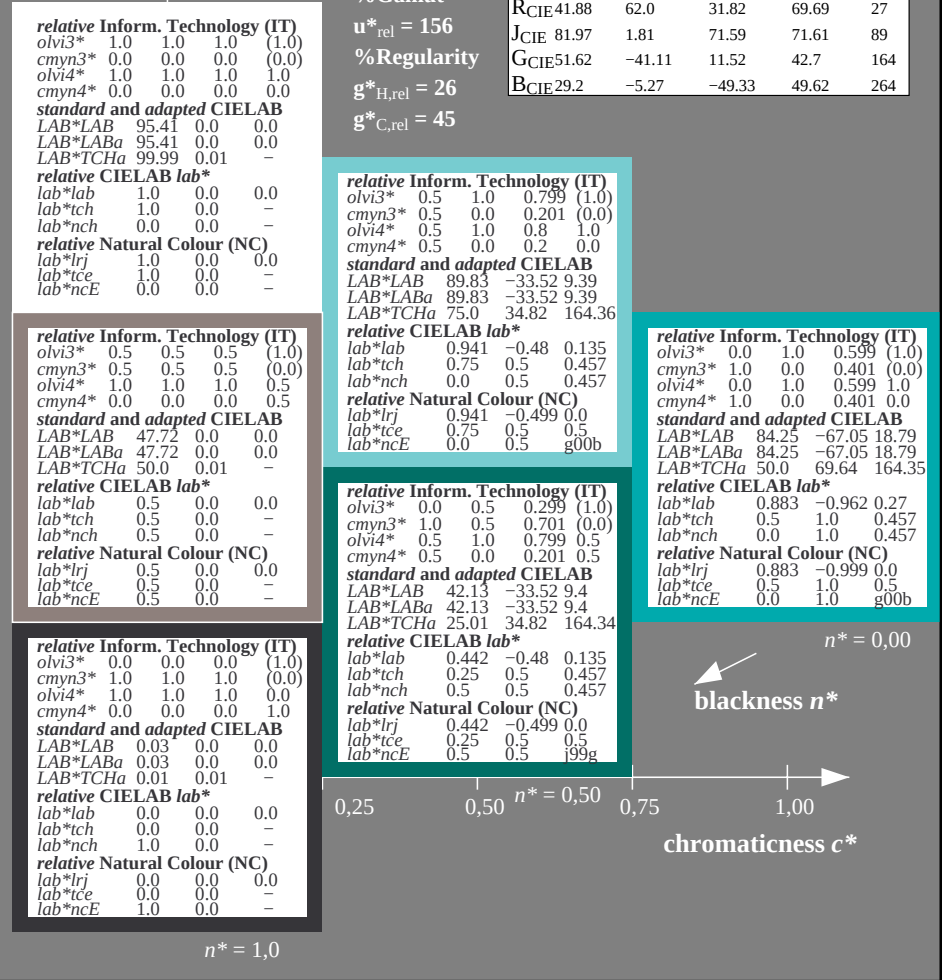
triangle lightness *t**



TLS00; adapted (a) CIELAB data

	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45



QE000−7, 3 step scales for constant CIELAB hue 167/360 = 0.463 (left)

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

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*

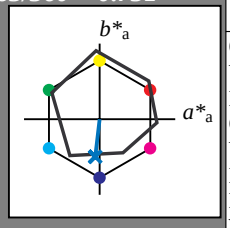
See for similar files: http://www.ps.bam.de/QE00/
Technical information: http://www.ps.bam.de Version 2.1, io=0,0?

BAM registration: 20060101-QE00/10Q/Q00E09SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/QE00/ Form: 10/10Serie: 1/1, Page: 10 Page: count: 10

Input: Colorimetric Offset Reflective System ORS18
for hue *h = *lab*h* = 263/360 = 0.731**
lab*tch* and *lab*nch

D50: hue B
LCH*Ma: 42 47 263
olv*Ma: 0.0 0.52 1.0

triangle lightness *t**



ORS18; adapted (a) CIELAB data

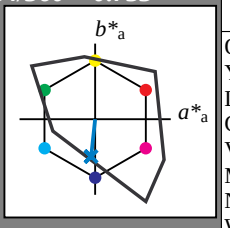
	*L** = *L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	47.94	65.05	50.54	82.38	38
Y_{Ma}	91.0	−4.72	90.58	90.7	93
L_{Ma}	50.9	−63.18	34.98	72.22	151
C_{Ma}	56.99	−39.34	−48.1	62.16	231
V_{Ma}	25.72	30.89	−44.4	54.09	305
M_{Ma}	49.99	75.76	−4.64	75.9	356
N_{Ma}	18.09	0.0	0.0	0.0	0
W_{Ma}	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

%Gamut
u*rel = 94
%Regularity
g*H,rel = 65
g*C,rel = 60

Output: Colorimetric Television Luminous System TLS00
for hue *h = *lab*h* = 264/360 = 0.733**
lab*tch* and *lab*nch

D50: hue B
LCH*Ma: 61 54 264
olv*Ma: 0.0 0.59 1.0

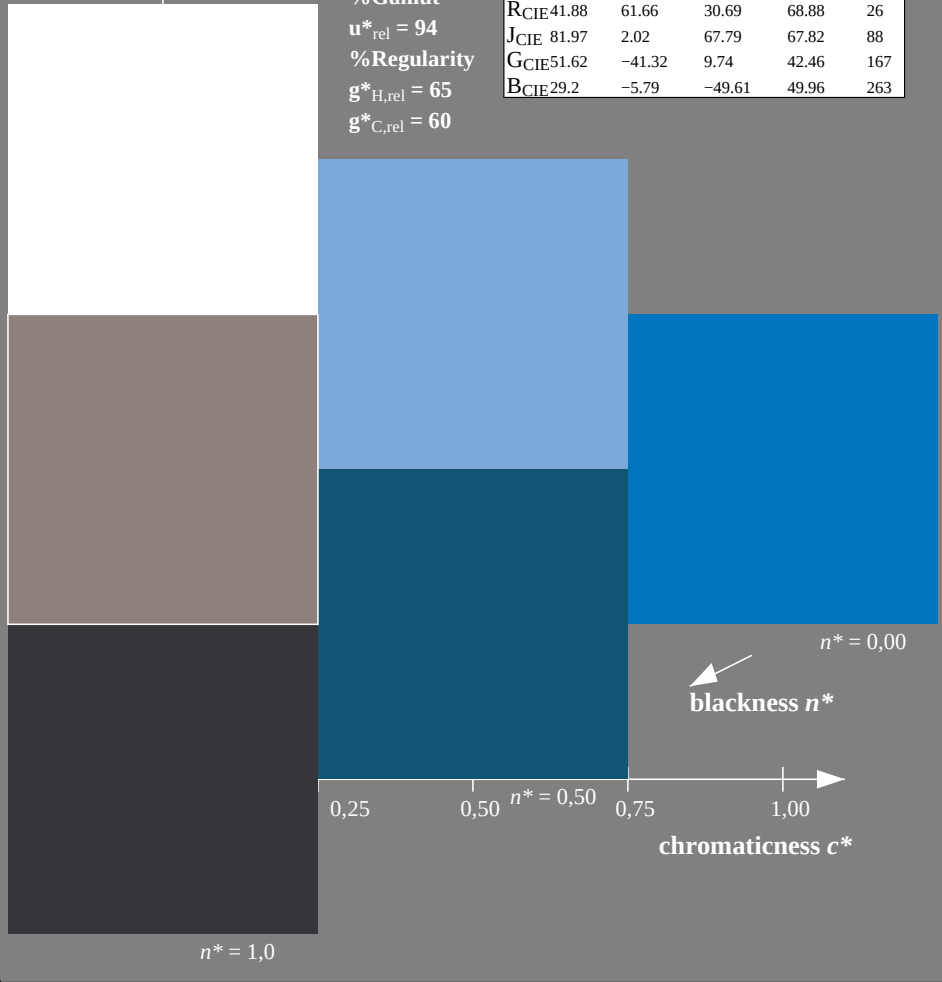
triangle lightness *t**

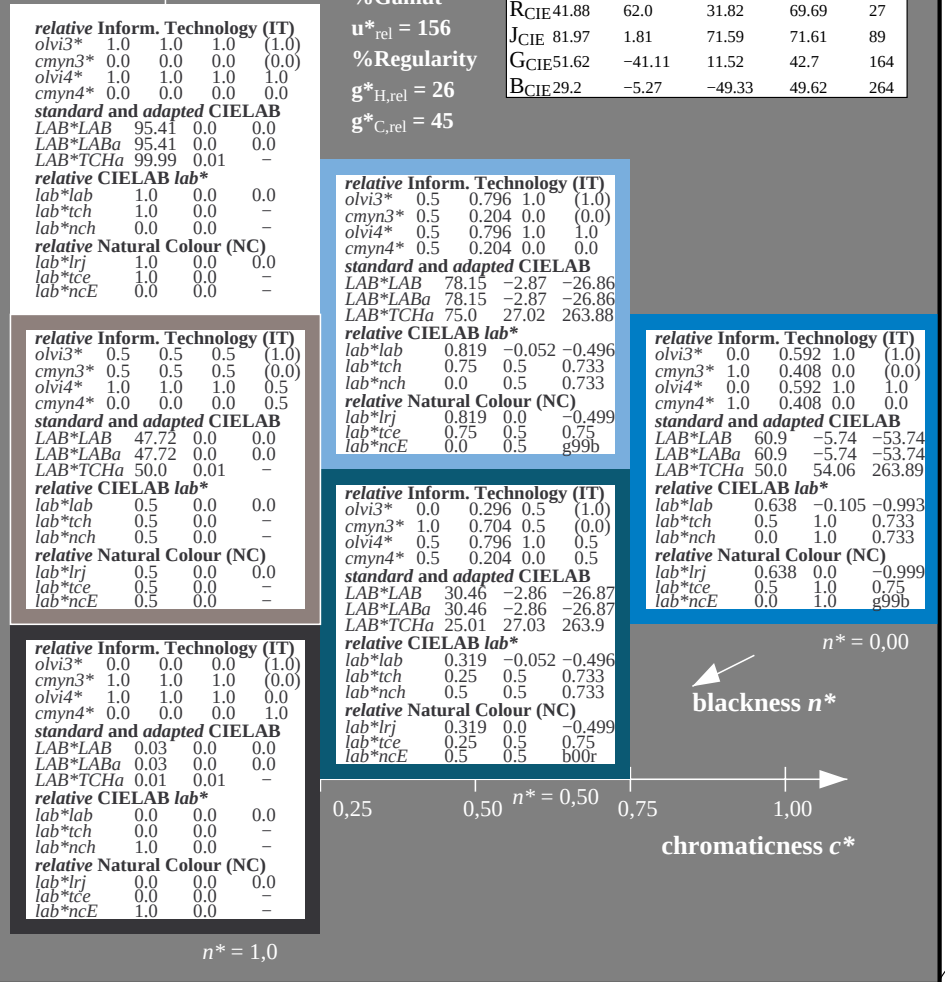


TLS00; adapted (a) CIELAB data

	*L** = *L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	54.19	79.36	63.0	101.33	38
Y_{Ma}	93.44	−14.18	82.59	83.8	100
L_{Ma}	82.82	−83.73	70.41	109.41	140
C_{Ma}	85.22	−55.9	−15.78	58.1	196
V_{Ma}	25.61	67.05	−108.87	127.87	302
M_{Ma}	58.76	91.18	−53.69	105.82	330
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

%Gamut
u*rel = 156
%Regularity
g*H,rel = 26
g*C,rel = 45





***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	–	

***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*	47.72	0.0	0.0	
*LAB*LABa*	47.72	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	–	

***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*	0.03	0.0	0.0	
*LAB*LABa*	0.03	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	–	

***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.796	1.0	(1.0)
*cmyn3**	0.5	0.204	0.0	(0.0)
*olvi4**	0.5	0.796	1.0	1.0
*cmyn4**	0.5	0.204	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	78.15	−2.87	−26.86	
*LAB*LABa*	78.15	−2.87	−26.86	
*LAB*TCHa*	75.0	27.02	263.88	
relative* CIELAB *lab*				
*lab*lab*	0.819	−0.052	−0.496	
*lab*tch*	0.75	0.5	0.733	
*lab*nch*	0.0	0.5	0.733	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.819	0.0	−0.499	
*lab*tce*	0.75	0.5	0.75	
*lab*ncE*	0.0	0.5	g99b	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	0.296	0.5	(1.0)
*cmyn3**	1.0	0.704	0.5	(0.0)
*olvi4**	0.5	0.796	1.0	0.5
*cmyn4**	0.5	0.204	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	30.46	−2.86	−26.87	
*LAB*LABa*	30.46	−2.86	−26.87	
*LAB*TCHa*	25.01	27.03	263.9	
relative* CIELAB *lab*				
*lab*lab*	0.319	−0.052	−0.496	
*lab*tch*	0.25	0.5	0.733	
*lab*nch*	0.5	0.5	0.733	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.319	0.0	−0.499	
*lab*tce*	0.25	0.5	0.75	
*lab*ncE*	0.5	0.5	b00r	

***relative* Inform. Technology (IT)**				
*olvi3**	0.0	0.592	1.0	(1.0)
*cmyn3**	1.0	0.408	0.0	(0.0)
*olvi4**	0.0	0.592	1.0	1.0
*cmyn4**	1.0	0.408	0.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	60.9	−5.74	−53.74	
*LAB*LABa*	60.9	−5.74	−53.74	
*LAB*TCHa*	50.0	54.06	263.89	
relative* CIELAB *lab*				
*lab*lab*	0.638	−0.105	−0.993	
*lab*tch*	0.5	1.0	0.733	
*lab*nch*	0.0	1.0	0.733	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.638	0.0	−0.999	
*lab*tce*	0.5	1.0	0.75	
*lab*ncE*	0.0	1.0	g99b	

QE000−7, 3 step scales for constant CIELAB hue 263/360 = 0.731 (left)
3 step scales for constant CIELAB hue 264/360 = 0.733 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & ORS18
D50: 3 step colour scales and coordinate data for 10 hues

input: *cmy0* setcmykcolor*
output: *Startup (S) data dependend*