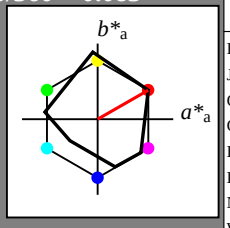
Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 30/360 = 0.083**
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 50 77 30
olv*Ma: 1.0 0.0 0.0

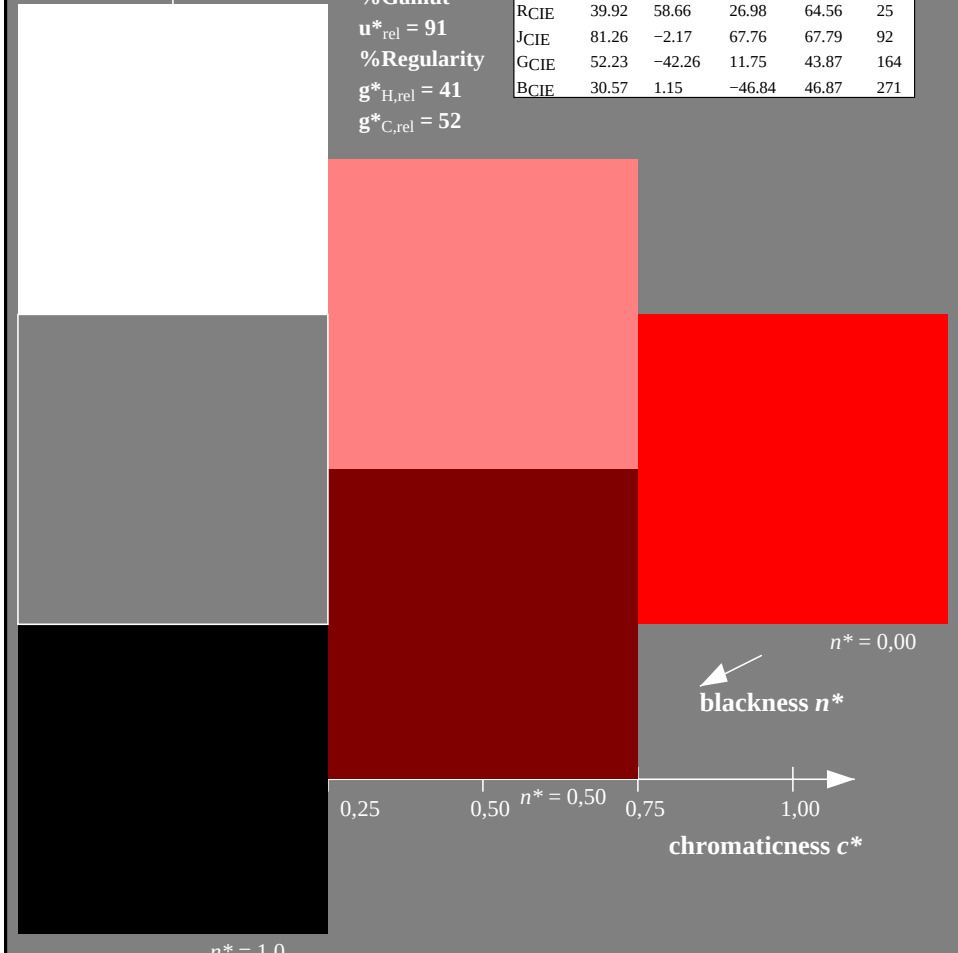
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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	−0.97	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	–	

***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	−0.23	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	–	

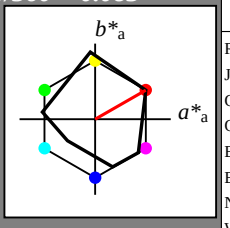
***relative* Inform. Technology (IT)**

*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	−0.46	
*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	–	

Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 30/360 = 0.083**
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 50 77 30
olv*Ma: 1.0 0.0 0.0

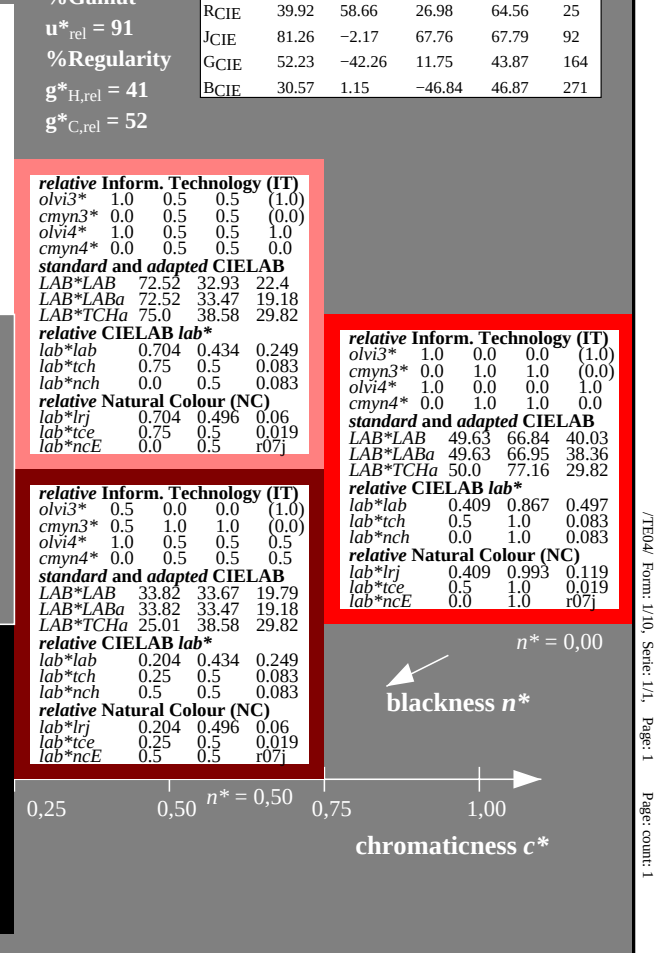
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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	−0.97	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	–	

***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*	72.52	32.93	22.4	
*LAB*LABa*	72.52	33.47	19.18	
*LAB*TCHa*	75.0	38.58	29.82	
relative* CIELAB *lab*				
*lab*lab*	0.704	0.434	0.249	
*lab*tch*	0.75	0.5	0.083	
*lab*nch*	0.0	0.5	0.083	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.704	0.496	0.06	
*lab*tce*	0.75	0.5	0.019	
*lab*ncE*	0.0	0.5	r07j	

***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*	33.82	33.67	19.79	
*LAB*LABa*	33.82	33.47	19.18	
*LAB*TCHa*	25.01	38.58	29.82	
relative* CIELAB *lab*				
*lab*lab*	0.204	0.434	0.249	
*lab*tch*	0.25	0.5	0.083	
*lab*nch*	0.5	0.5	0.083	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.204	0.496	0.06	
*lab*tce*	0.25	0.5	0.019	
*lab*ncE*	0.5	0.5	r07j	

***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*	49.63	66.84	40.03	
*LAB*LABa*	49.63	66.95	38.36	
*LAB*TCHa*	50.0	77.16	29.82	
relative* CIELAB *lab*				
*lab*lab*	0.409	0.867	0.497	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.409	0.993	0.119	
*lab*tce*	0.5	1.0	0.019	
*lab*ncE*	0.0	1.0	r07j	

TE040−7, 3 step scales for constant CIELAB hue 30/360 = 0.083 (left)

3 step scales for constant CIELAB hue 30/360 = 0.083 (right)

See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E00SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

/TE04/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

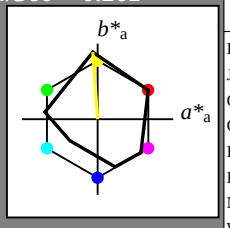
BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 94/360 = 0.261**
lab*tch* and *lab*nch

D65: hue J
LCH*Ma: 91 89 94
olv*Ma: 1.0 1.0 0.0

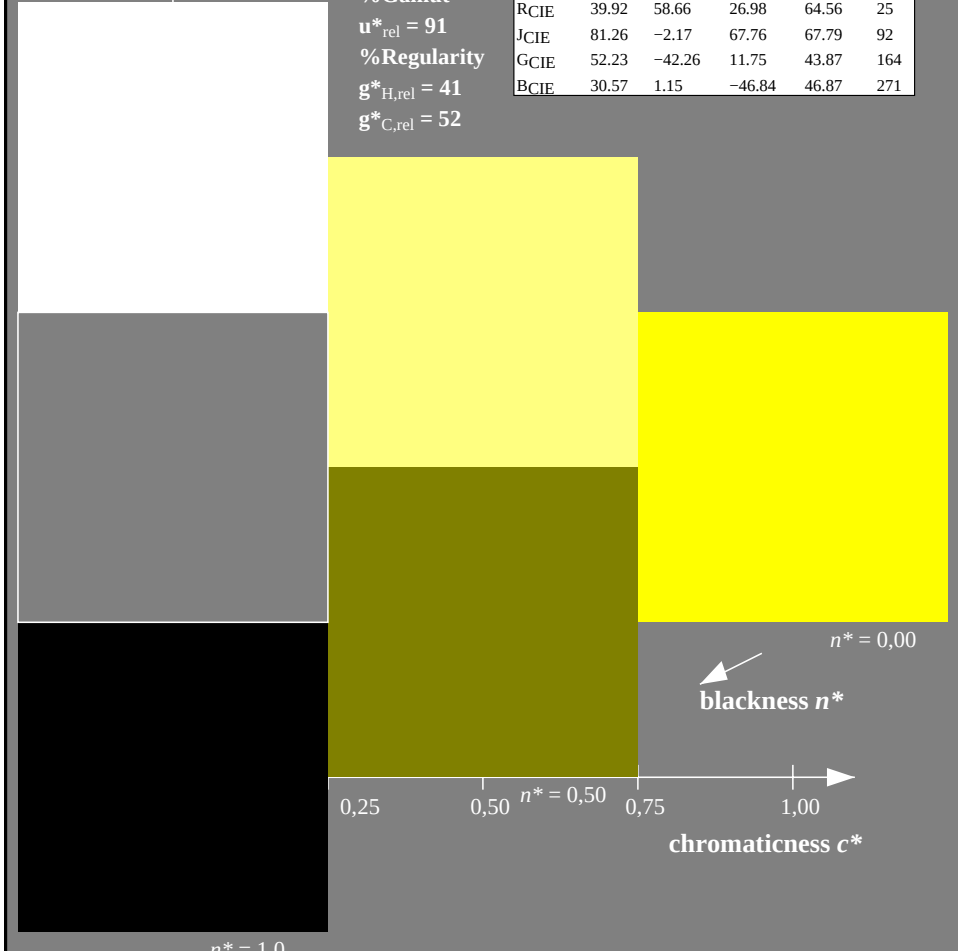
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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	−0.97	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	–

***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	−0.23	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	–

***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	−0.46
*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	–

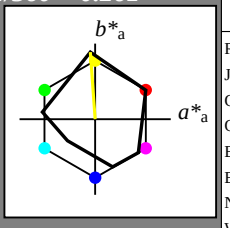
***relative* Natural Colour (NC)**

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

Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 94/360 = 0.261**
lab*tch* and *lab*nch

D65: hue J
LCH*Ma: 91 89 94
olv*Ma: 1.0 1.0 0.0

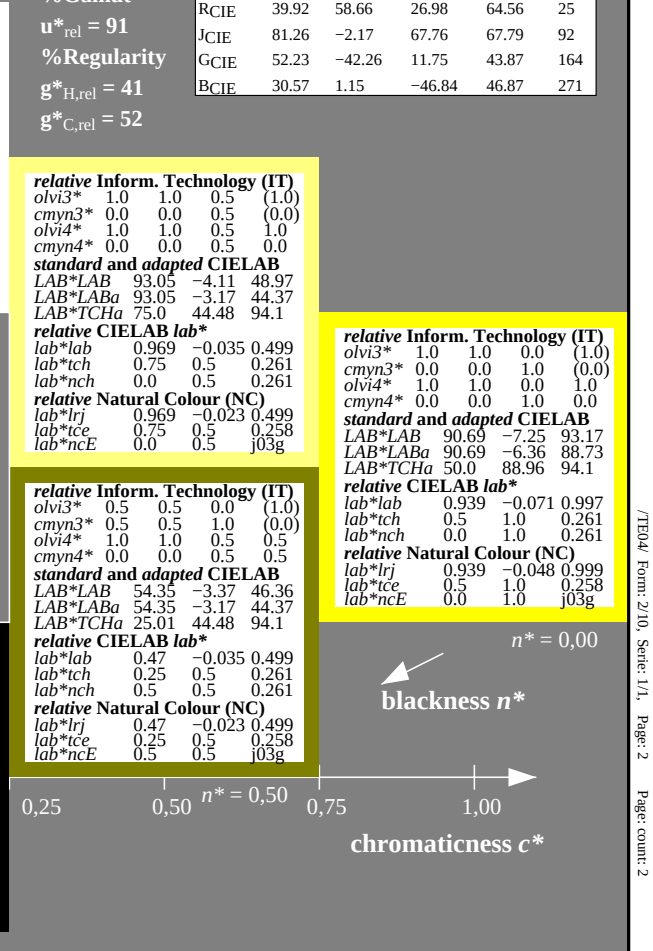
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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*	93.05	−4.11	48.97
*LAB*LABa*	93.05	−3.17	44.37
*LAB*TCHa*	75.0	44.48	94.1

relative* CIELAB *lab*

*lab*lab*	0.969	−0.035	0.499
*lab*tch*	0.75	0.5	0.261
*lab*nch*	0.0	0.5	0.261

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

*lab*lrj*	0.969	−0.023	0.499
*lab*tce*	0.75	0.5	0.258
*lab*ncE*	0.0	0.5	j03g

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

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

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

*LAB*LAB*	54.35	−3.37	46.36
*LAB*LABa*	54.35	−3.17	44.37
*LAB*TCHa*	25.01	44.48	94.1

relative* CIELAB *lab*

*lab*lab*	0.47	−0.035	0.499
*lab*tch*	0.25	0.5	0.261
*lab*nch*	0.5	0.5	0.261

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

*lab*lrj*	0.47	−0.023	0.499
*lab*tce*	0.25	0.5	0.258
*lab*ncE*	0.5	0.5	j03g

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

*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	1.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0

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

*LAB*LAB*	90.69	−7.25	93.17
*LAB*LABa*	90.69	−6.36	88.73
*LAB*TCHa*	50.0	88.96	94.1

relative* CIELAB *lab*

*lab*lab*	0.939	−0.071	0.997
*lab*tch*	0.5	1.0	0.261
*lab*nch*	0.0	1.0	0.261

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

*lab*lrj*	0.939	−0.048	0.999
*lab*tce*	0.5	1.0	0.258
*lab*ncE*	0.0	1.0	j03g

TE040−7, 3 step scales for constant CIELAB hue 94/360 = 0.261 (left)

3 step scales for constant CIELAB hue 94/360 = 0.261 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

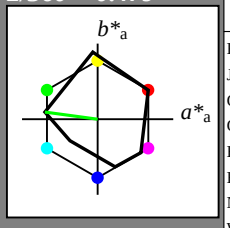
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E01SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 172/360 = 0.479**
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 52 70 172
olv*Ma: 0.0 1.0 0.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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 −0.97 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 –

***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 −0.23 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 –

***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 −0.46
*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 –

$n^* = 0{,}00$

blackness *n**

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

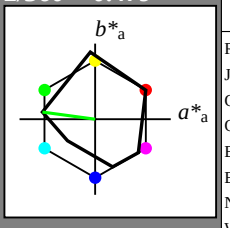
chromaticness *c**

$n^* = 1{,}0$

Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 172/360 = 0.479**
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 52 70 172
olv*Ma: 0.0 1.0 0.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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* 73.75 −35.42 8.02
*LAB*LABa* 73.75 −34.85 4.72
*LAB*TCHa* 75.0 35.18 172.29
relative* CIELAB *lab*
*lab*lab* 0.72 −0.494 0.067
*lab*tch* 0.75 0.5 0.479
*lab*nch* 0.0 0.5 0.479
***relative* Natural Colour (NC)**
*lab*lrj* 0.72 −0.496 −0.056
*lab*tce* 0.75 0.5 0.518
*lab*ncE* 0.0 0.5 g07b

***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* 35.06 −34.67 5.41
*LAB*LABa* 35.06 −34.85 4.72
*LAB*TCHa* 25.01 35.18 172.29
relative* CIELAB *lab*
*lab*lab* 0.22 −0.494 0.067
*lab*tch* 0.25 0.5 0.479
*lab*nch* 0.5 0.5 0.479
***relative* Natural Colour (NC)**
*lab*lrj* 0.22 −0.496 −0.056
*lab*tce* 0.25 0.5 0.518
*lab*ncE* 0.5 0.5 g07b

***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* 52.11 −69.86 11.28
*LAB*LABa* 52.11 −69.71 9.44
*LAB*TCHa* 50.0 70.36 172.29
relative* CIELAB *lab*
*lab*lab* 0.441 −0.99 0.134
*lab*tch* 0.5 1.0 0.479
*lab*nch* 0.0 1.0 0.479
***relative* Natural Colour (NC)**
*lab*lrj* 0.441 −0.992 −0.114
*lab*tce* 0.5 1.0 0.518
*lab*ncE* 0.0 1.0 g07b

$n^* = 0{,}00$

blackness *n**

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

chromaticness *c**

$n^* = 1{,}0$

TE040−7, 3 step scales for constant CIELAB hue 172/360 = 0.479 (left)

3 step scales for constant CIELAB hue 172/360 = 0.479 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

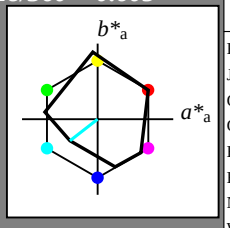
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E02SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Reflective System MRS18
for hue $h^* = lab^*h = 218/360 = 0.605$
lab*tch* and *lab*nch

D65: hue G50B
LCH*Ma: 45 46 218
olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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	−0.97	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	–

***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	−0.23	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	–

***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	−0.46
*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	–

$n^* = 0{,}00$

blackness n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

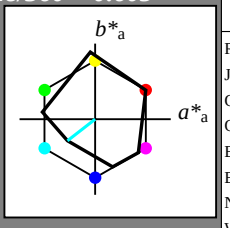
chromaticness c^*

$n^* = 1{,}0$

Output: Colorimetric Reflective System MRS18
for hue $h^* = lab^*h = 218/360 = 0.605$
lab*tch* and *lab*nch

D65: hue G50B
LCH*Ma: 45 46 218
olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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*	70.21	−18.77	−11.17
*LAB*LABa*	70.21	−18.27	−14.23
*LAB*TCHa*	75.0	23.17	217.91

relative* CIELAB *lab*

*lab*lab*	0.674	−0.393	−0.306
*lab*tch*	0.75	0.5	0.605
*lab*nch*	0.0	0.5	0.605

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

*lab*lrj*	0.674	−0.353	−0.352
*lab*tce*	0.75	0.5	0.625
*lab*ncE*	0.0	0.5	g49b

***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*	31.52	−18.03	−13.78
*LAB*LABa*	31.52	−18.27	−14.23
*LAB*TCHa*	25.01	23.17	217.91

relative* CIELAB *lab*

*lab*lab*	0.175	−0.393	−0.306
*lab*tch*	0.25	0.5	0.605
*lab*nch*	0.5	0.5	0.605

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

*lab*lrj*	0.175	−0.353	−0.352
*lab*tce*	0.25	0.5	0.625
*lab*ncE*	0.5	0.5	g49b

***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*	45.03	−36.57	−27.11
*LAB*LABa*	45.03	−36.56	−28.47
*LAB*TCHa*	50.0	46.35	217.91

relative* CIELAB *lab*

*lab*lab*	0.349	−0.788	−0.613
*lab*tch*	0.5	1.0	0.605
*lab*nch*	0.0	1.0	0.605

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

*lab*lrj*	0.349	−0.706	−0.706
*lab*tce*	0.5	1.0	0.625
*lab*ncE*	0.0	1.0	g49b

$n^* = 0{,}00$

blackness n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

chromaticness c^*

$n^* = 1{,}0$

TE040−7, 3 step scales for constant CIELAB hue 218/360 = 0.605 (left)

3 step scales for constant CIELAB hue 218/360 = 0.605 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

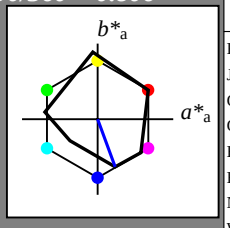
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E03SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 4/10, Serie: 1/1, Page: 4 Page: count: 4

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 290/360 = 0.806**
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 37 67 290
olv*Ma: 0.0 0.0 1.0

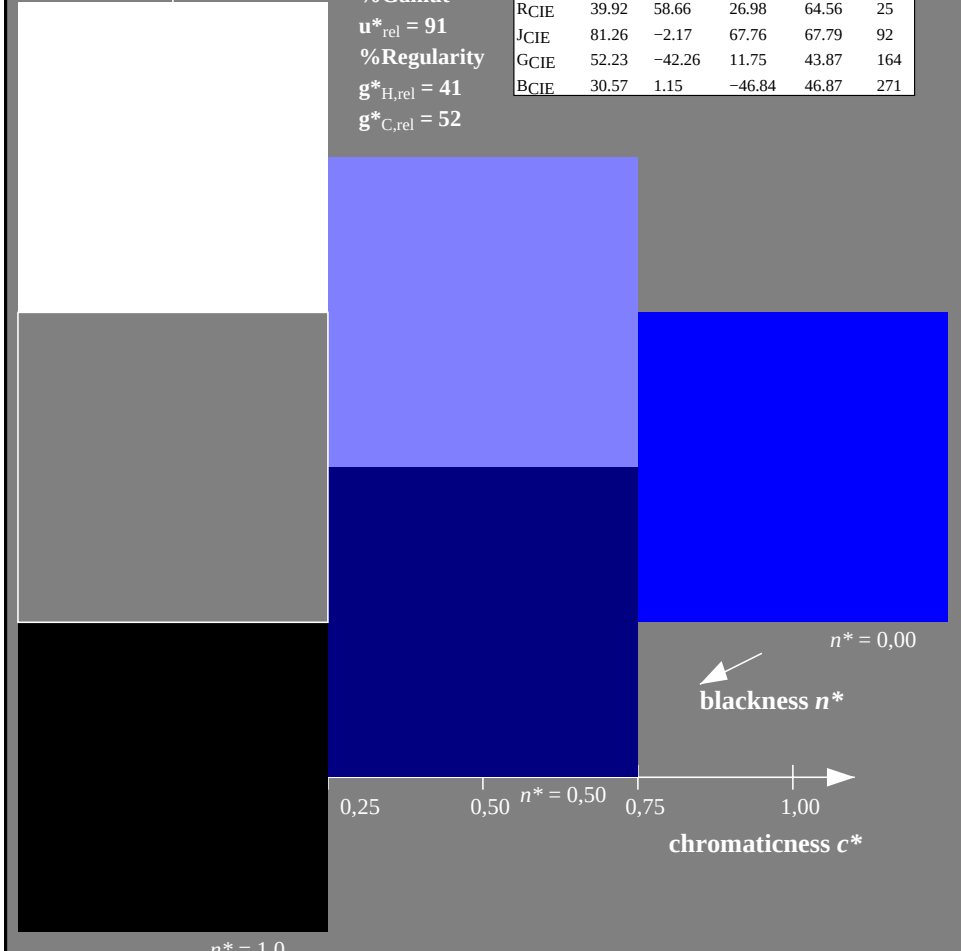
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

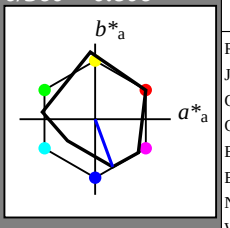
%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 290/360 = 0.806**
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 37 67 290
olv*Ma: 0.0 0.0 1.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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	−0.97	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	–

***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*	66.03	11.17	−28.74
*LAB*LABa*	66.03	11.59	−31.51
*LAB*TCHa*	75.0	33.59	290.19

relative* CIELAB *lab*

*lab*lab*	0.62	0.173	−0.468
*lab*tch*	0.75	0.5	0.806
*lab*nch*	0.0	0.5	0.806

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

*lab*lrj*	0.62	0.129	−0.482
*lab*tce*	0.75	0.5	0.791
*lab*ncE*	0.0	0.5	b16r

***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	−0.23	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	–

***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*	27.34	11.92	−31.35
*LAB*LABa*	27.34	11.59	−31.51
*LAB*TCHa*	25.01	33.59	290.19

relative* CIELAB *lab*

*lab*lab*	0.12	0.173	−0.468
*lab*tch*	0.25	0.5	0.806
*lab*nch*	0.5	0.5	0.806

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

*lab*lrj*	0.12	0.129	−0.482
*lab*tce*	0.25	0.5	0.791
*lab*ncE*	0.5	0.5	b16r

***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*	36.65	23.33	−62.24
*LAB*LABa*	36.65	23.18	−63.03
*LAB*TCHa*	50.0	67.17	290.19

relative* CIELAB *lab*

*lab*lab*	0.241	0.345	−0.937
*lab*tch*	0.5	1.0	0.806
*lab*nch*	0.0	1.0	0.806

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

*lab*lrj*	0.241	0.257	−0.965
*lab*tce*	0.5	1.0	0.791
*lab*ncE*	0.0	1.0	b16r

***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**

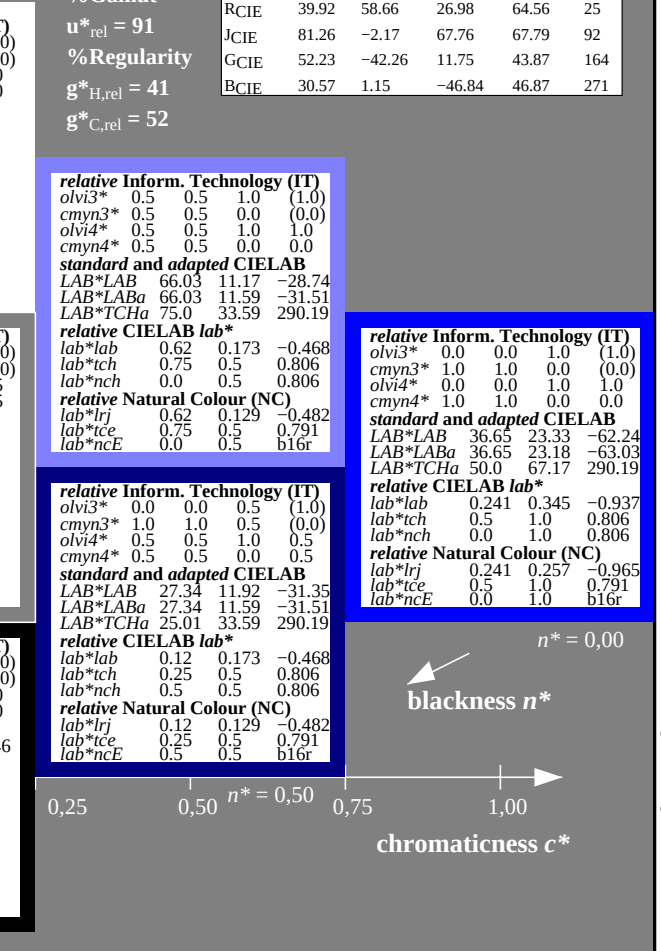
*LAB*LAB*	18.02	0.5	−0.46
*LAB*LABa*	18.02	0.0	0.0
*LAB*TCHa*	0.01	0.01	–

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	–



TE040−7, 3 step scales for constant CIELAB hue 290/360 = 0.806 (left)

3 step scales for constant CIELAB hue 290/360 = 0.806 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

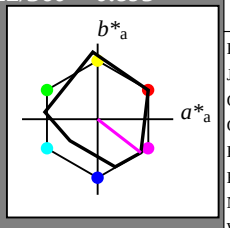
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E04SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 5/10, Serie: 1/1, Page: 5 Page: count: 5

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 322/360 = 0.895**
lab*tch* and *lab*nch

D65: hue B50R
LCH*Ma: 35 72 322
olv*Ma: 1.0 0.0 1.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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	−0.97	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	–

***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	−0.23	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	–

***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**

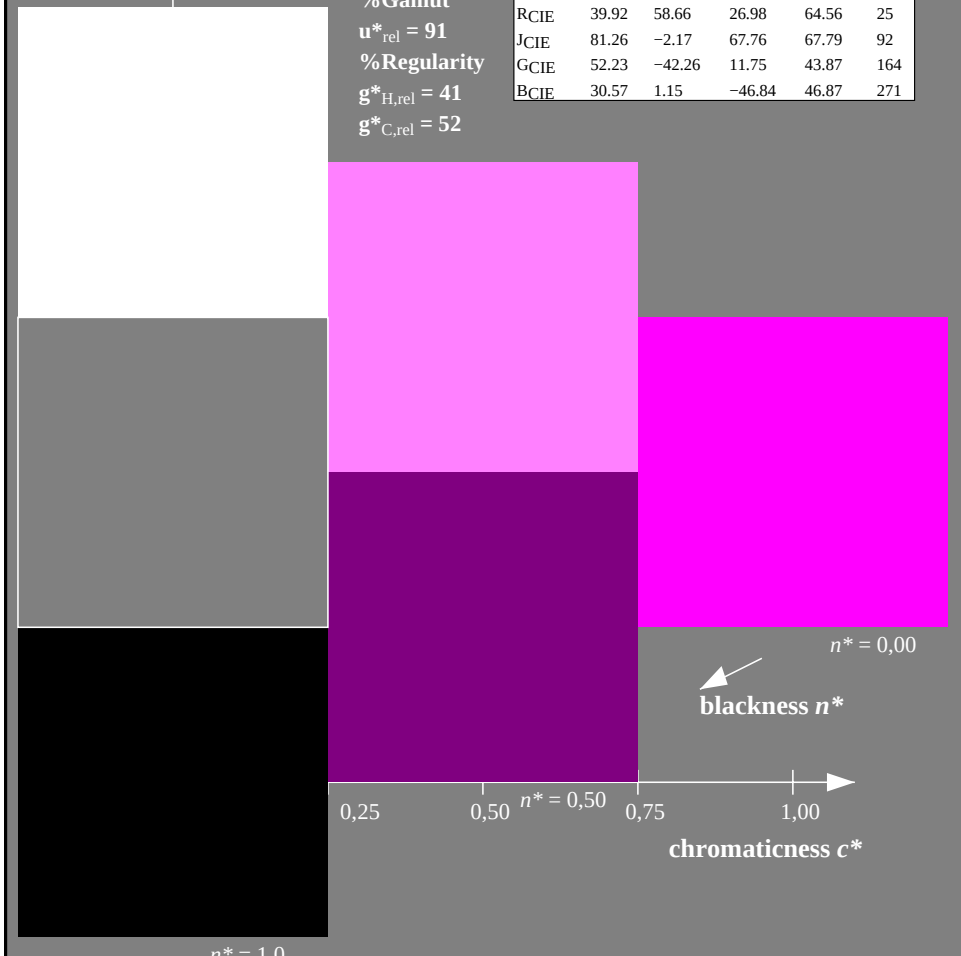
*LAB*LAB*	18.02	0.5	−0.46
*LAB*LABa*	18.02	0.0	0.0
*LAB*TCHa*	0.01	0.01	–

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)**

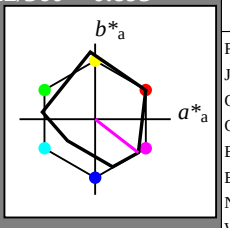
*lab*lrj*	0.0	0.0	0.0
*lab*tce*	0.0	0.0	–
*lab*ncE*	1.0	0.0	–



Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 322/360 = 0.895**
lab*tch* and *lab*nch

D65: hue B50R
LCH*Ma: 35 72 322
olv*Ma: 1.0 0.0 1.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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*	65.17	28.18	−19.4
*LAB*LABa*	65.17	28.58	−22.12
*LAB*TCHa*	75.0	36.15	322.25

relative* CIELAB *lab*

*lab*lab*	0.609	0.395	−0.305
*lab*tch*	0.75	0.5	0.895
*lab*nch*	0.0	0.5	0.895

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

*lab*lrj*	0.609	0.324	−0.38
*lab*tce*	0.75	0.5	0.862
*lab*ncE*	0.0	0.5	b44r

***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*	26.48	28.92	−22.01
*LAB*LABa*	26.48	28.58	−22.12
*LAB*TCHa*	25.01	36.15	322.25

relative* CIELAB *lab*

*lab*lab*	0.109	0.395	−0.305
*lab*tch*	0.25	0.5	0.895
*lab*nch*	0.5	0.5	0.895

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

*lab*lrj*	0.109	0.324	−0.38
*lab*tce*	0.25	0.5	0.862
*lab*ncE*	0.5	0.5	b44r

***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**

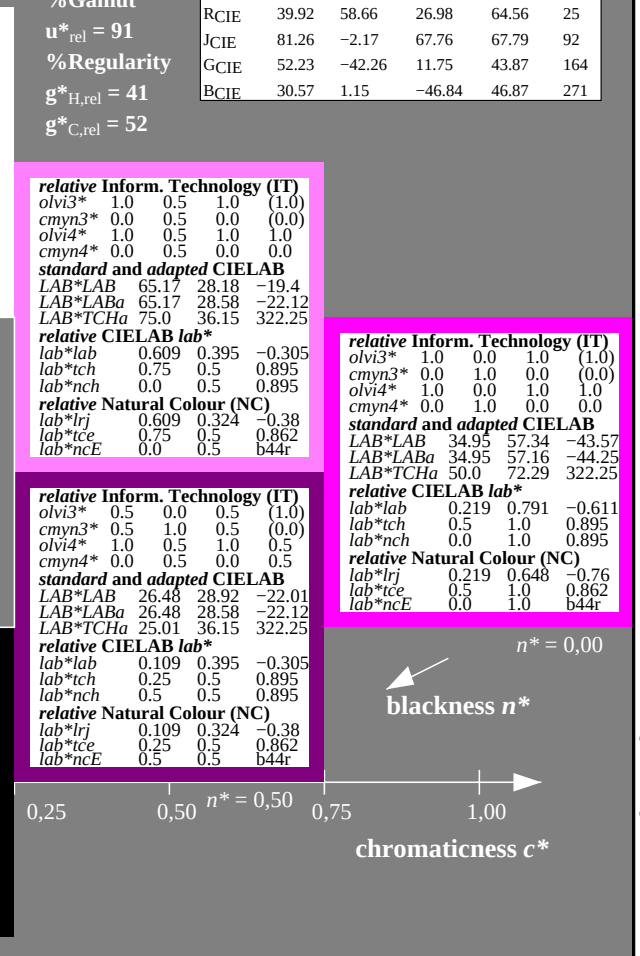
*LAB*LAB*	34.95	57.34	−43.57
*LAB*LABa*	34.95	57.16	−44.25
*LAB*TCHa*	50.0	72.29	322.25

relative* CIELAB *lab*

*lab*lab*	0.219	0.791	−0.611
*lab*tch*	0.5	1.0	0.895
*lab*nch*	0.0	1.0	0.895

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

*lab*lrj*	0.219	0.648	−0.76
*lab*tce*	0.5	1.0	0.862
*lab*ncE*	0.0	1.0	b44r



TE040−7, 3 step scales for constant CIELAB hue 322/360 = 0.895 (left)

3 step scales for constant CIELAB hue 322/360 = 0.895 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

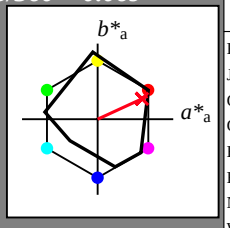
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E05SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 6/10, Serie: 1/1, Page: 6 Page: count: 6

Input: Colorimetric Reflective System MRS18
for hue $h^* = lab^*h = 25/360 = 0.069$
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 48 73 25
olv*Ma: 1.0 0.0 0.1

triangle lightness t^*



%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

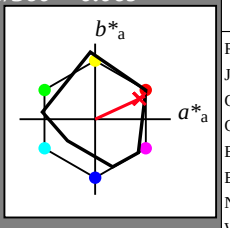
MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

Output: Colorimetric Reflective System MRS18
for hue $h^* = lab^*h = 25/360 = 0.069$
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 48 73 25
olv*Ma: 1.0 0.0 0.1

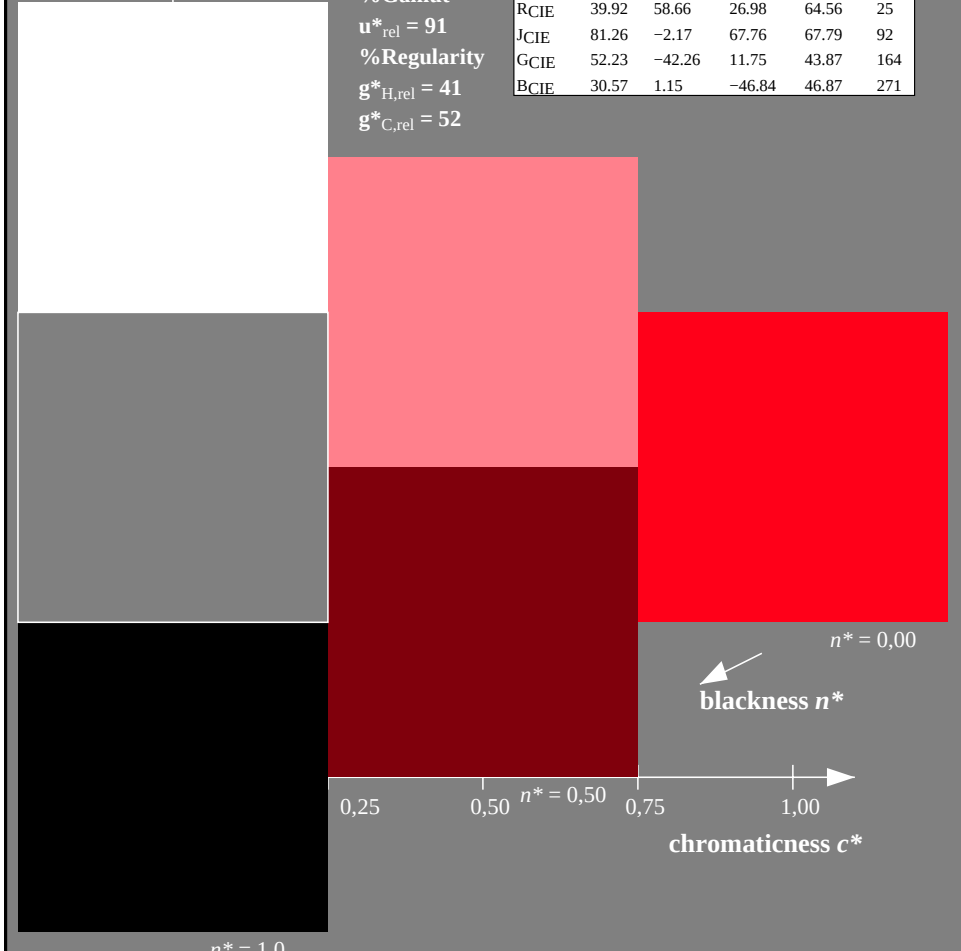
triangle lightness t^*



%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271



***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	−0.97	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	–	

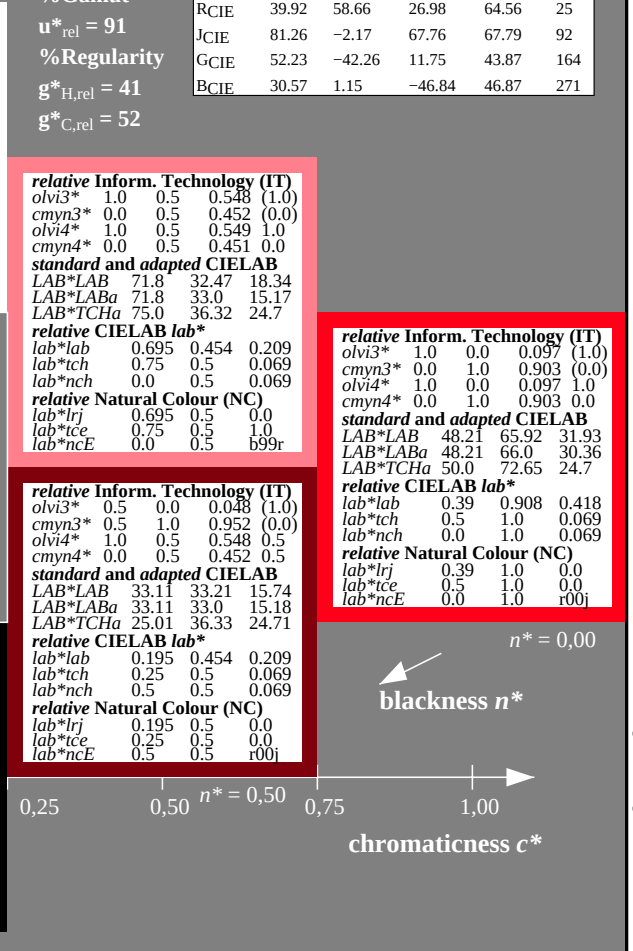
***relative* Inform. Technology (IT)**				
*olvi3**	0.5	0.5	0.5	(1.0)
*cmyn3**	0.5	0.5	0.5	(0.0)
*olvi4**	1.0	1.0	1.0	0.5
*cmyn4**	0.0	0.0	0.0	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	56.71	−0.23	2.14	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.01	–	
relative* CIELAB *lab*				
*lab*lab*	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	–	

***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	−0.46	
*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	–	

***relative* Inform. Technology (IT)**				
*olvi3**	1.0	0.5	0.548	(1.0)
*cmyn3**	0.0	0.5	0.452	(0.0)
*olvi4**	1.0	0.5	0.549	1.0
*cmyn4**	0.0	0.5	0.451	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	71.8	32.47	18.34	
*LAB*LABa*	71.8	33.0	15.17	
*LAB*TCHa*	75.0	36.32	24.7	
relative* CIELAB *lab*				
*lab*lab*	0.695	0.454	0.209	
*lab*tch*	0.75	0.5	0.069	
*lab*nch*	0.0	0.5	0.069	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.695	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	0.048	(1.0)
*cmyn3**	0.5	1.0	0.952	(0.0)
*olvi4**	1.0	0.5	0.548	0.5
*cmyn4**	0.0	0.5	0.452	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	33.11	33.21	15.74	
*LAB*LABa*	33.11	33.0	15.18	
*LAB*TCHa*	25.01	36.33	24.71	
relative* CIELAB *lab*				
*lab*lab*	0.195	0.454	0.209	
*lab*tch*	0.25	0.5	0.069	
*lab*nch*	0.5	0.5	0.069	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.195	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	0.097	(1.0)
*cmyn3**	0.0	1.0	0.903	(0.0)
*olvi4**	1.0	0.0	0.097	1.0
*cmyn4**	0.0	1.0	0.903	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	48.21	65.92	31.93	
*LAB*LABa*	48.21	66.0	30.36	
*LAB*TCHa*	50.0	72.65	24.7	
relative* CIELAB *lab*				
*lab*lab*	0.39	0.908	0.418	
*lab*tch*	0.5	1.0	0.069	
*lab*nch*	0.0	1.0	0.069	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.39	1.0	0.0	
*lab*tce*	0.5	1.0	0.0	
*lab*ncE*	0.0	1.0	r00j	



TE040−7, 3 step scales for constant CIELAB hue 25/360 = 0.069 (left)

3 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

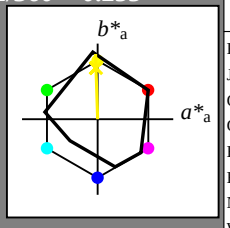
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E06SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 7/10, Serie: 1/1, Page: 7 Page: count: 7

Input: Colorimetric Reflective System MRS18
for hue *h = *lab*h* = 92/360 = 0.255**
lab*tch* and *lab*nch

D65: hue J
LCH*Ma: 89 86 92
olv*Ma: 1.0 0.95 0.0

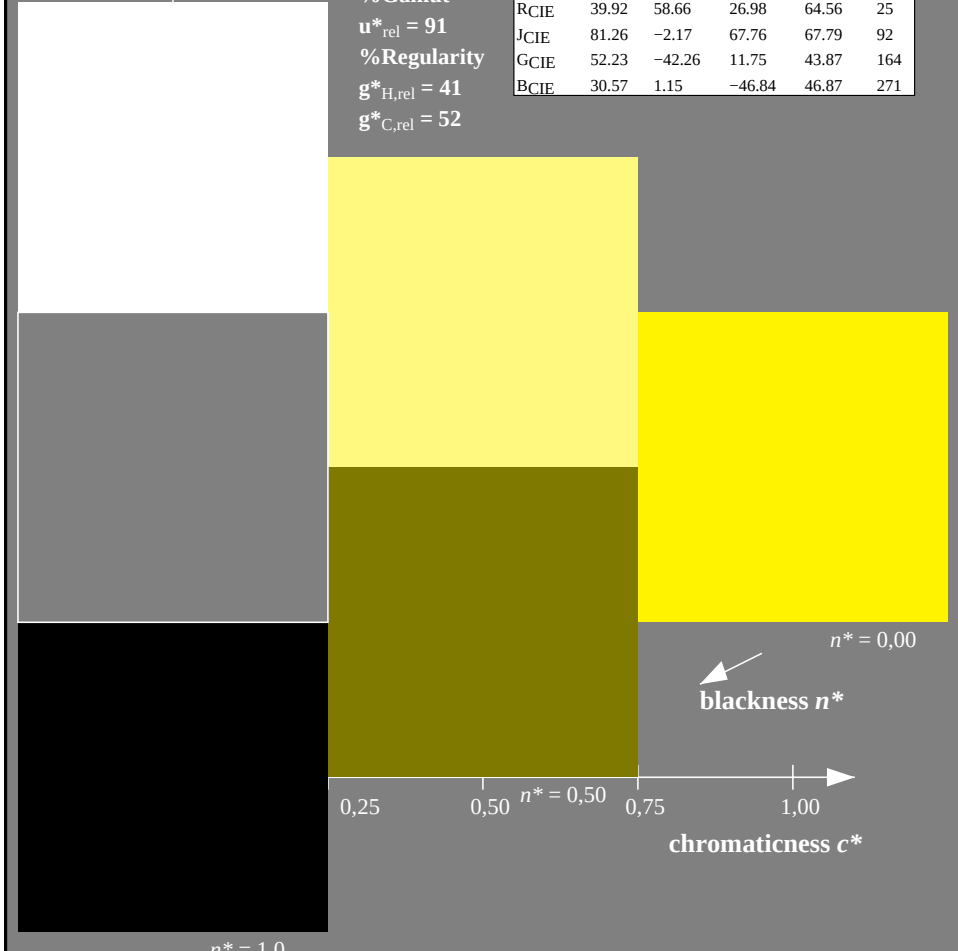
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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	−0.97	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	–	

***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	−0.23	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	–	

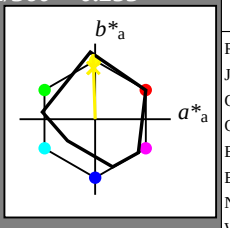
***relative* Inform. Technology (IT)**

*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	−0.46	
*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	–	

Output: Colorimetric Reflective System MRS18
for hue *h = *lab*h* = 92/360 = 0.255**
lab*tch* and *lab*nch

D65: hue J
LCH*Ma: 89 86 92
olv*Ma: 1.0 0.95 0.0

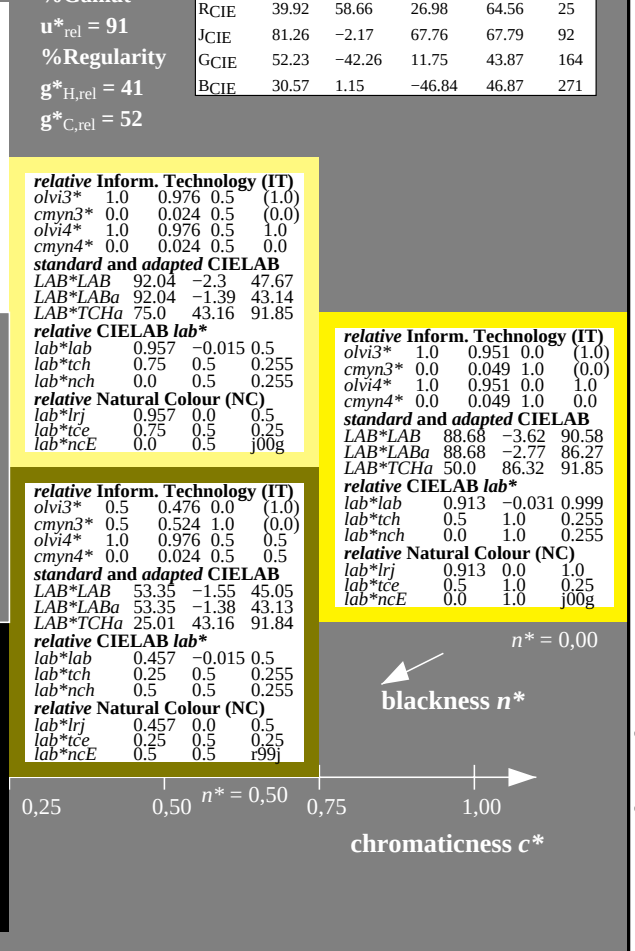
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



***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	−0.97	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	–	

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

*olvi3**	1.0	0.976	0.5	(1.0)
*cmyn3**	0.0	0.024	0.5	(0.0)
*olvi4**	1.0	0.976	0.5	1.0
*cmyn4**	0.0	0.024	0.5	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	92.04	−2.3	47.67	
*LAB*LABa*	92.04	−1.39	43.14	
*LAB*TCHa*	75.0	43.16	91.85	
relative* CIELAB *lab*				
*lab*lab*	0.957	−0.015	0.5	
*lab*tch*	0.75	0.5	0.255	
*lab*nch*	0.0	0.5	0.255	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.957	0.0	0.5	
*lab*tce*	0.75	0.5	0.25	
*lab*ncE*	0.0	0.5	j00g	

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

*olvi3**	0.5	0.476	0.0	(1.0)
*cmyn3**	0.5	0.524	1.0	(0.0)
*olvi4**	1.0	0.976	0.5	0.5
*cmyn4**	0.0	0.024	0.5	0.5
***standard* and *adapted* CIELAB**				
*LAB*LAB*	53.35	−1.55	45.05	
*LAB*LABa*	53.35	−1.38	43.13	
*LAB*TCHa*	25.01	43.16	91.84	
relative* CIELAB *lab*				
*lab*lab*	0.457	−0.015	0.5	
*lab*tch*	0.25	0.5	0.255	
*lab*nch*	0.5	0.5	0.255	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.457	0.0	0.5	
*lab*tce*	0.25	0.5	0.25	
*lab*ncE*	0.5	0.5	r99j	

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

*olvi3**	1.0	0.951	0.0	(1.0)
*cmyn3**	0.0	0.049	1.0	(0.0)
*olvi4**	1.0	0.951	0.0	1.0
*cmyn4**	0.0	0.049	1.0	0.0
***standard* and *adapted* CIELAB**				
*LAB*LAB*	88.68	−3.62	90.58	
*LAB*LABa*	88.68	−2.77	86.27	
*LAB*TCHa*	50.0	86.32	91.85	
relative* CIELAB *lab*				
*lab*lab*	0.913	−0.031	0.999	
*lab*tch*	0.5	1.0	0.255	
*lab*nch*	0.0	1.0	0.255	
***relative* Natural Colour (NC)**				
*lab*lrj*	0.913	0.0	1.0	
*lab*tce*	0.5	1.0	0.25	
*lab*ncE*	0.0	1.0	j00g	

See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

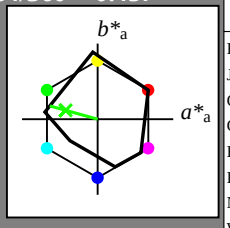
BAM registration: 20060101-TE04/10L/L04E07SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

TE040−7, 3 step scales for constant CIELAB hue 92/360 = 0.255 (left) 3 step scales for constant CIELAB hue 92/360 = 0.255 (right)

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 164/360 = 0.457**
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 56 66 164
olv*Ma: 0.1 1.0 0.0

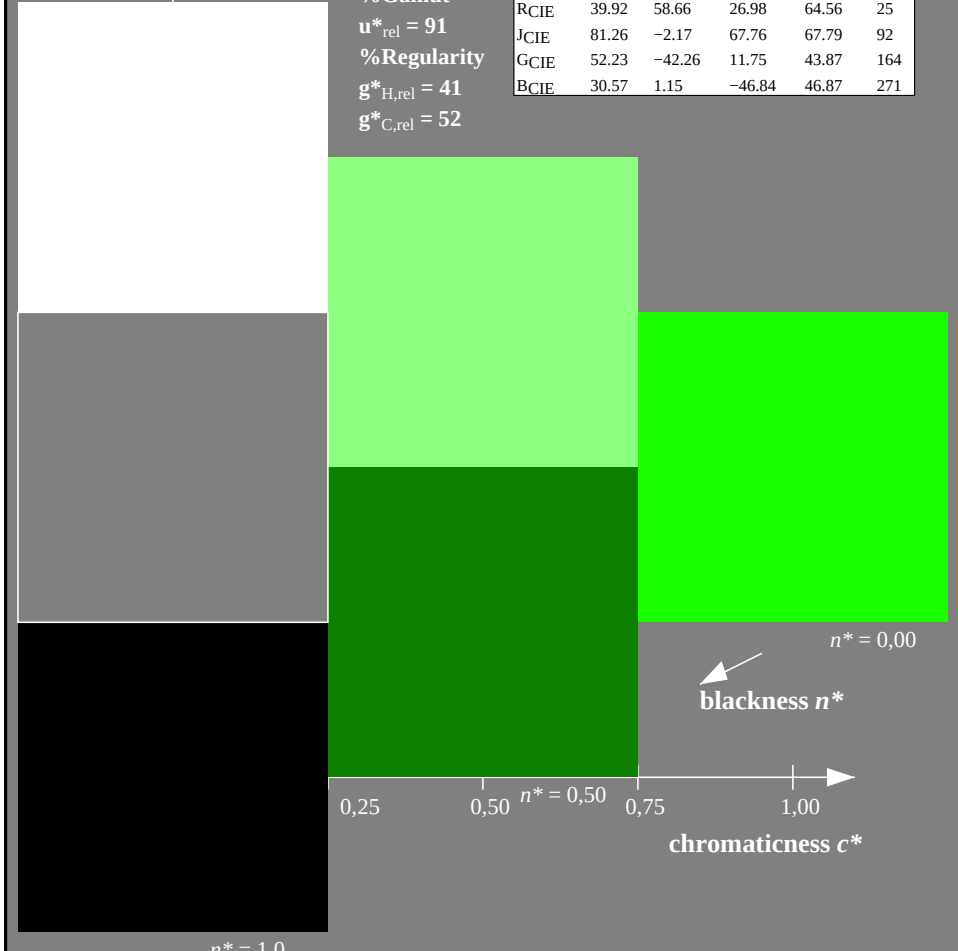
triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

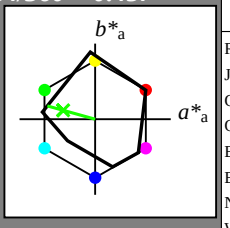
%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52



Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 164/360 = 0.457**
lab*tch* and *lab*nch

D65: hue G
LCH*Ma: 56 66 164
olv*Ma: 0.1 1.0 0.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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	−0.97	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	–

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

*olvi3**	0.551	1.0	0.5	(1.0)
*cmyn3**	0.449	0.0	0.5	(0.0)
*olvi4**	0.551	1.0	0.5	1.0
*cmyn4**	0.449	0.0	0.5	0.0

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

*LAB*LAB*	75.74	−32.2	12.22
*LAB*LABa*	75.74	−31.6	8.79
*LAB*TCHa*	75.0	32.81	164.46

relative* CIELAB *lab*

*lab*lab*	0.746	−0.481	0.134
*lab*tch*	0.75	0.5	0.457
*lab*nch*	0.0	0.5	0.457

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

*lab*lrj*	0.746	−0.499	0.0
*lab*tce*	0.75	0.5	0.5
*lab*ncE*	0.0	0.5	j99g

***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	−0.23	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	–

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

*olvi3**	0.051	0.5	0.0	(1.0)
*cmyn3**	0.949	0.5	1.0	(0.0)
*olvi4**	0.551	1.0	0.5	0.5
*cmyn4**	0.449	0.0	0.5	0.5

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

*LAB*LAB*	37.04	−31.47	9.6
*LAB*LABa*	37.04	−31.6	8.78
*LAB*TCHa*	25.01	32.81	164.47

relative* CIELAB *lab*

*lab*lab*	0.246	−0.481	0.134
*lab*tch*	0.25	0.5	0.457
*lab*nch*	0.5	0.5	0.457

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

*lab*lrj*	0.246	−0.499	0.0
*lab*tce*	0.25	0.5	0.5
*lab*ncE*	0.5	0.5	g00b

***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	−0.46
*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	–

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

*olvi3**	0.103	1.0	0.0	(1.0)
*cmyn3**	0.897	0.0	1.0	(0.0)
*olvi4**	0.103	1.0	0.0	1.0
*cmyn4**	0.897	0.0	1.0	0.0

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

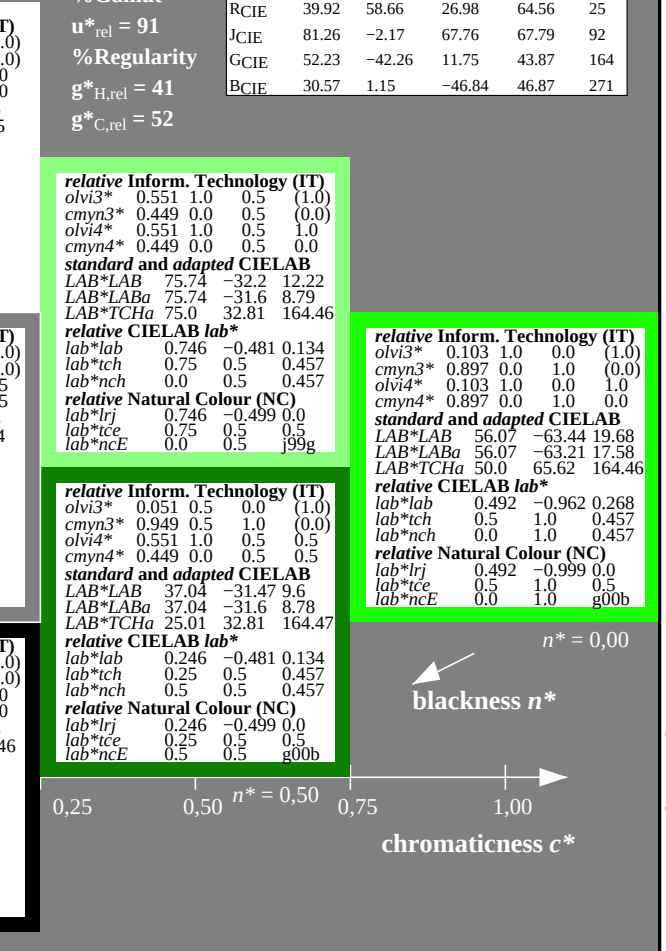
*LAB*LAB*	56.07	−63.44	19.68
*LAB*LABa*	56.07	−63.21	17.58
*LAB*TCHa*	50.0	65.62	164.46

relative* CIELAB *lab*

*lab*lab*	0.492	−0.962	0.268
*lab*tch*	0.5	1.0	0.457
*lab*nch*	0.0	1.0	0.457

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

*lab*lrj*	0.492	−0.999	0.0
*lab*tce*	0.5	1.0	0.5
*lab*ncE*	0.0	1.0	g00b



TE040−7, 3 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

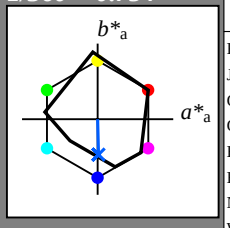
See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E08SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 9/10, Serie: 1/1, Page: 9 Page: count: 9

Input: Colorimetric Reflective System MRS18
for hue *h = lab*h = 271/360 = 0.754**
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 40 50 271
olv*Ma: 0.0 0.37 1.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***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 −0.97 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 –

***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 −0.23 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 –

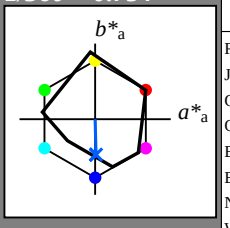
***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 18.02 0.5 −0.46
*LAB*LABa* 18.02 0.0 0.0
*LAB*TCHa* 0.01 0.01 –
relative* CIELAB *lab*
*lab*lab* 0.0 0.0 0.0
*lab*tch* 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 –

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

Output: Colorimetric Reflective System MRS18
for hue *h = lab*h = 271/360 = 0.754**
lab*tch* and *lab*nch

D65: hue B
LCH*Ma: 40 50 271
olv*Ma: 0.0 0.37 1.0

triangle lightness *t**



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	49.63	66.96	38.37	77.18	30
J_{Ma}	90.7	−6.36	88.75	88.98	94
G_{Ma}	52.11	−69.73	9.44	70.37	172
$G50B_{Ma}$	45.03	−36.57	−28.47	46.36	218
B_{Ma}	36.65	23.19	−63.05	67.18	290
$B50R_{Ma}$	34.94	57.17	−44.26	72.31	322
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	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

%Gamut
u^*_{rel} = 91
%Regularity
$g^*_{H,rel}$ = 41
$g^*_{C,rel}$ = 52

***relative* Inform. Technology (IT)**
*olvi3** 0.5 0.684 1.0 (1.0)
*cmyn3** 0.5 0.316 0.0 (0.0)
*olvi4** 0.5 0.684 1.0 1.0
*cmyn4** 0.5 0.316 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 67.57 0.17 −22.28
*LAB*LABa* 67.57 0.61 −25.16
*LAB*TCHa* 75.0 25.18 271.4
relative* CIELAB *lab*
*lab*lab* 0.64 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* 0.64 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 0.184 0.5 (1.0)
*cmyn3** 1.0 0.816 0.5 (0.0)
*olvi4** 0.5 0.684 1.0 0.5
*cmyn4** 0.5 0.316 0.0 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 28.87 0.92 −24.9
*LAB*LABa* 28.87 0.62 −25.16
*LAB*TCHa* 25.01 25.18 271.41
relative* CIELAB *lab*
*lab*lab* 0.14 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* 0.14 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 0.367 1.0 (1.0)
*cmyn3** 1.0 0.633 0.0 (0.0)
*olvi4** 0.0 0.367 1.0 1.0
*cmyn4** 1.0 0.633 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 39.73 1.32 −49.33
*LAB*LABa* 39.73 1.23 −50.34
*LAB*TCHa* 50.0 50.36 271.41
relative* CIELAB *lab*
*lab*lab* 0.281 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* 0.281 0.0 −0.999
*lab*tce* 0.5 1.0 0.75
*lab*ncE* 0.0 1.0 b00r

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

TE040−7, 3 step scales for constant CIELAB hue 271/360 = 0.754 (left)
3 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart TE04; Colorimetric systems ORS18 & ORS18
D65: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/TE04/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-TE04/10L/L04E09SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/TE04/ Form: 10/10,Serie: 1/1, Page: 10 Page: count: 10