

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.106$

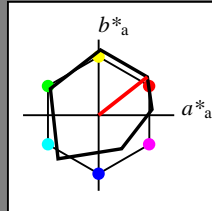
lab^*tch and lab^*nch

A: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 95.6, 0.43, 4.65, 95.6, 0.0, 0.0, 99.99, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 1.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 1.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0, 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 56.86, 0.8, 2.08, 56.86, 0.0, 0.0, 50.0, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.5, 0.0, 0.0, 0.5, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.5, 0.0, 0.0, 0.5, 0.0, 0.0.

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 18.12, 1.18, -0.49, 18.12, 0.0, 0.0, 0.01, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.0, 0.0, 0.0, 1.0, 0.0, 0.0.

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

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

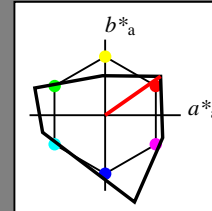
lab^*tch and lab^*nch

A: hue O

LCH*Ma: 66 90 35

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 95.41, 0.0, 0.0, 95.41, 0.0, 0.0, 99.99, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 1.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 1.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0, 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 47.72, 0.0, 0.0, 47.72, 0.0, 0.0, 50.0, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.5, 0.0, 0.0, 0.5, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.5, 0.0, 0.0, 0.5, 0.0, 0.0.

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0, 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 0.03, 0.0, 0.0, 0.03, 0.0, 0.0, 0.01, 0.01.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.0, 0.0, 0.0, 1.0, 0.0, 0.0.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.0, 0.0, 0.0, 1.0, 0.0, 0.0.

$n^* = 1.0$

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.5, 0.5, 0.0, 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 71.77, 32.86, 28.36, 71.77, 32.2, 25.28, 40.94, 38.14.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.692, 0.393, 0.309, 0.75, 0.5, 0.106, 0.0, 0.5, 0.106.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.692, 0.496, 0.064, 0.75, 0.5, 0.02, 0.0, 0.5, r08j.

relative Inform. Technology (IT)

Table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.0, 0.0, 0.0, 0.5, 0.5, 1.0, 0.0.

standard and adapted CIELAB

Table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 33.03, 33.24, 25.79, 33.03, 32.2, 25.28, 25.01, 40.94, 38.14.

relative CIELAB lab*

Table with columns lab*lab, lab*tch, lab*nch and values 0.193, 0.393, 0.309, 0.25, 0.5, 0.106, 0.5, 0.5, 0.106.

relative Natural Colour (NC)

Table with columns lab*lrj, lab*tce, lab*nce and values 0.193, 0.496, 0.064, 0.25, 0.5, 0.02, 0.5, 0.5, r08j.

$n^* = 0.50$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 0.50$

blackness n^*

chromaticness c^*

$n^* = 0.00$

blackness n^*

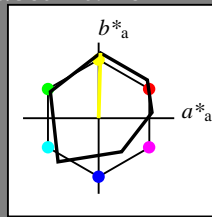
chromaticness c^*

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.246$
 lab^*tch and lab^*nch

A: hue Y
LCH*Ma: 93 86 88
olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data table with columns L*, a*, b*, C*, h* and rows OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table for ORS18 with rows olvi3*, cmyn3*, olvi4*, cmyn4* and columns 1.0, 1.0, 1.0, (1.0).

standard and adapted CIELAB table for ORS18 with rows LAB*LAB, LAB*LABa, LAB*TCHa and columns 95.6, 0.43, 4.65.

relative CIELAB lab* table for ORS18 with rows lab*lab, lab*tch, lab*nch and columns 1.0, 0.0, 0.0.

relative Natural Colour (NC) table for ORS18 with rows lab*lrj, lab*tce, lab*nce and columns 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table for ORS18 with columns 1.0, 1.0, 0.5, (1.0).

standard and adapted CIELAB table for ORS18 with columns 94.1, 1.65, 47.73.

relative CIELAB lab* table for ORS18 with columns 0.981, 0.014, 0.5.

relative Natural Colour (NC) table for ORS18 with columns 0.981, -0.033, 0.499.

relative Inform. Technology (IT) table for ORS18 with columns 0.5, 0.5, 0.5, (1.0).

standard and adapted CIELAB table for ORS18 with columns 56.86, 0.8, 2.08.

relative CIELAB lab* table for ORS18 with columns 0.5, 0.0, 0.0.

relative Natural Colour (NC) table for ORS18 with columns 0.5, 0.0, 0.0.

relative Inform. Technology (IT) table for ORS18 with columns 0.5, 0.5, 0.0, (1.0).

standard and adapted CIELAB table for ORS18 with columns 55.37, 2.02, 45.16.

relative CIELAB lab* table for ORS18 with columns 0.481, 0.014, 0.5.

relative Natural Colour (NC) table for ORS18 with columns 0.481, -0.033, 0.499.

relative Inform. Technology (IT) table for ORS18 with columns 0.0, 0.0, 0.0, (1.0).

standard and adapted CIELAB table for ORS18 with columns 18.12, 1.18, -0.49.

relative CIELAB lab* table for ORS18 with columns 0.0, 0.0, 0.0.

relative Natural Colour (NC) table for ORS18 with columns 0.0, 0.0, 0.0.

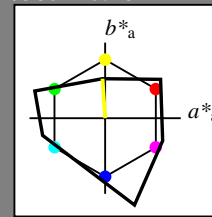
$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 94/360 = 0.261$
 lab^*tch and lab^*nch

A: hue Y
LCH*Ma: 95 52 94
olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data table with columns L*, a*, b*, C*, h* and rows OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table for TLS00 with columns 1.0, 1.0, 1.0, (1.0).

standard and adapted CIELAB table for TLS00 with columns 95.41, 0.0, 0.0.

relative CIELAB lab* table for TLS00 with columns 1.0, 0.0, 0.0.

relative Natural Colour (NC) table for TLS00 with columns 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table for TLS00 with columns 1.0, 1.0, 0.5, (1.0).

standard and adapted CIELAB table for TLS00 with columns 95.09, -1.74, 26.11.

relative CIELAB lab* table for TLS00 with columns 0.997, -0.032, 0.499.

relative Natural Colour (NC) table for TLS00 with columns 0.997, -0.083, 0.493.

relative Inform. Technology (IT) table for TLS00 with columns 0.5, 0.5, 0.5, (1.0).

standard and adapted CIELAB table for TLS00 with columns 47.72, 0.0, 0.0.

relative CIELAB lab* table for TLS00 with columns 0.5, 0.0, 0.0.

relative Natural Colour (NC) table for TLS00 with columns 0.5, 0.0, 0.0.

relative Inform. Technology (IT) table for TLS00 with columns 0.5, 0.5, 0.0, (1.0).

standard and adapted CIELAB table for TLS00 with columns 47.4, -1.74, 26.11.

relative CIELAB lab* table for TLS00 with columns 0.497, -0.032, 0.499.

relative Natural Colour (NC) table for TLS00 with columns 0.497, -0.083, 0.493.

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

blackness n^*

chromaticness c^*

$n^* = 0.50$

$n^* = 0.50$

RE100-7, 3 step scales for constant CIELAB hue 88/360 = 0.246 (left)

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

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.42$

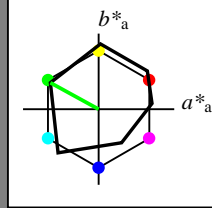
lab^*tch and lab^*nch

A: hue L

LCH*Ma: 51 73 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB 95.6 0.43 4.65 LAB*LABa 95.6 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0.

standard and adapted CIELAB LAB*LAB 56.86 0.8 2.08 LAB*LABa 56.86 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 18.12 1.18 -0.49 LAB*LABa 18.12 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 -

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 159/360 = 0.441$

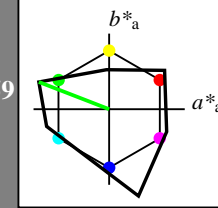
lab^*tch and lab^*nch

A: hue L

LCH*Ma: 77 100 159

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0.

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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 0.0, 0.0.

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 -

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 1.0, 0.5, 0.0.

standard and adapted CIELAB LAB*LAB 86.44 -46.47 18.0 LAB*LABa 86.44 -46.47 18.0 LAB*TCHa 75.0 49.84 158.83

relative CIELAB lab* lab*lab 0.906 -0.465 0.18 lab*tch 0.75 0.5 0.441 lab*nch 0.0 0.5 0.441

relative Natural Colour (NC) lab*lrj 0.906 -0.483 0.125 lab*tce 0.75 0.5 0.46 lab*nce 0.0 0.5 j83g

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.5, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 38.75 -46.47 18.0 LAB*LABa 38.75 -46.47 18.0 LAB*TCHa 25.01 49.84 158.83

relative CIELAB lab* lab*lab 0.406 -0.465 0.18 lab*tch 0.25 0.5 0.441 lab*nch 0.5 0.5 0.441

relative Natural Colour (NC) lab*lrj 0.406 -0.483 0.125 lab*tce 0.25 0.5 0.46 lab*nce 0.5 0.5 j83g

$n^* = 0.00$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 1.0, 0.5, 0.0.

standard and adapted CIELAB LAB*LAB 73.25 -31.25 20.68 LAB*LABa 73.25 -31.9 17.51 LAB*TCHa 75.0 36.4 151.25

relative CIELAB lab* lab*lab 0.712 -0.437 0.24 lab*tch 0.75 0.5 0.42 lab*nch 0.0 0.5 0.42

relative Natural Colour (NC) lab*lrj 0.712 -0.455 0.204 lab*tce 0.75 0.5 0.433 lab*nce 0.0 0.5 j73g

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.5, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 34.51 -30.88 18.11 LAB*LABa 34.51 -31.9 17.51 LAB*TCHa 25.01 36.4 151.25

relative CIELAB lab* lab*lab 0.212 -0.437 0.24 lab*tch 0.25 0.5 0.42 lab*nch 0.5 0.5 0.42

relative Natural Colour (NC) lab*lrj 0.212 -0.455 0.204 lab*tce 0.25 0.5 0.433 lab*nce 0.5 0.5 j73g

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 0.75 1.00

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0.

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 -

$n^* = 1.0$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.5, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 38.75 -46.47 18.0 LAB*LABa 38.75 -46.47 18.0 LAB*TCHa 25.01 49.84 158.83

relative CIELAB lab* lab*lab 0.406 -0.465 0.18 lab*tch 0.25 0.5 0.441 lab*nch 0.5 0.5 0.441

relative Natural Colour (NC) lab*lrj 0.406 -0.483 0.125 lab*tce 0.25 0.5 0.46 lab*nce 0.5 0.5 j83g

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 0.75 1.00

RE100-7, 3 step scales for constant CIELAB hue 151/360 = 0.42 (left)

3 step scales for constant CIELAB hue 159/360 = 0.441 (right)

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

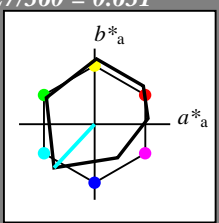
input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 227/360 = 0.631$
 lab^*tch and lab^*nch

A: hue C
LCH*Ma: 51 79 227
olv*Ma: 0.0 1.0 1.0
triangle lightness t^*



ORS18; adapted (a) CIELAB data					
	L^*	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	64.42	50.58	81.9	38
YMa	92.62	2.41	86.36	86.39	88
LMa	50.9	-63.82	35.02	72.81	151
CMa	51.25	-53.68	-57.69	78.82	227
VMa	25.72	30.34	-44.37	53.76	304
MMa	56.25	70.59	7.57	70.99	6
NMa	18.11	0.0	0.0	0.0	0
WMa	95.6	0.0	0.0	0.0	0
RCIE	47.79	60.85	41.08	73.41	34
JCIE	83.82	6.52	66.9	67.22	84
GCIE	49.0	-36.83	2.78	36.95	176
BCIE	25.14	-18.35	-56.22	59.15	252

%Gamut
 $u^*_{rel} = 96$
%Regularity
 $g^*_{H,rel} = -385$
 $g^*_{C,rel} = 62$

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 95.6 0.43 4.65
LAB*LABa 95.6 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 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 73.42 -26.18 -25.65
LAB*LABa 73.42 -26.83 -28.84
LAB*TCHa 75.0 39.4 227.06

relative CIELAB lab*
lab*lab 0.714 -0.34 -0.365
lab*tch 0.75 0.5 0.631
lab*nch 0.0 0.5 0.631

relative Natural Colour (NC)
lab*lrj 0.714 -0.244 -0.435
lab*tce 0.75 0.5 0.668
lab*nce 0.0 0.5 g67b

relative Inform. Technology (IT)
olvi3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 1.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 51.25 -52.81 -55.97
LAB*LABa 51.25 -53.67 -57.68
LAB*TCHa 50.0 78.8 227.06

relative CIELAB lab*
lab*lab 0.428 -0.68 -0.731
lab*tch 0.5 1.0 0.631
lab*nch 0.0 1.0 0.631

relative Natural Colour (NC)
lab*lrj 0.428 -0.489 -0.871
lab*tce 0.5 1.0 0.668
lab*nce 0.0 1.0 g67b

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 56.86 0.8 2.08
LAB*LABa 56.86 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 0.5 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 34.68 -25.81 -28.22
LAB*LABa 34.68 -26.83 -28.84
LAB*TCHa 25.01 39.4 227.06

relative CIELAB lab*
lab*lab 0.214 -0.34 -0.365
lab*tch 0.25 0.5 0.631
lab*nch 0.5 0.5 0.631

relative Natural Colour (NC)
lab*lrj 0.214 -0.244 -0.435
lab*tce 0.25 0.5 0.668
lab*nce 0.5 0.5 g67b

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* 1.0 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 -

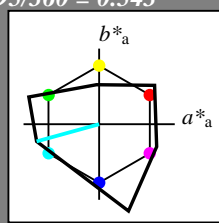
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 195/360 = 0.543$
 lab^*tch and lab^*nch

A: hue C
LCH*Ma: 78 86 195
olv*Ma: 0.0 1.0 1.0
triangle lightness t^*



TLS00; adapted (a) CIELAB data					
	L^*	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	65.56	73.34	51.39	89.55	35
YMa	94.78	-3.49	52.24	52.36	94
LMa	77.48	-92.97	36.0	99.71	159
CMa	78.36	-82.69	-22.74	85.77	195
VMa	12.55	38.81	-114.81	121.2	289
MMa	66.71	76.08	-29.8	81.71	339
NMa	0.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	47.79	61.74	42.56	74.99	35
JCIE	83.82	7.06	70.78	71.13	84
GCIE	49.0	-35.95	4.34	36.22	173
BCIE	25.14	-17.24	-56.24	58.84	253

%Gamut
 $u^*_{rel} = 141$
%Regularity
 $g^*_{H,rel} = 39$
 $g^*_{C,rel} = 43$

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 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 86.88 -41.33 -11.36
LAB*LABa 86.88 -41.33 -11.36
LAB*TCHa 75.0 42.88 195.38

relative CIELAB lab*
lab*lab 0.911 -0.481 -0.132
lab*tch 0.75 0.5 0.543
lab*nch 0.0 0.5 0.543

relative Natural Colour (NC)
lab*lrj 0.911 -0.452 -0.211
lab*tce 0.75 0.5 0.57
lab*nce 0.0 0.5 g27b

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 78.35 -82.67 -22.74
LAB*LABa 78.35 -82.67 -22.74
LAB*TCHa 50.0 85.75 195.38

relative CIELAB lab*
lab*lab 0.821 -0.963 -0.264
lab*tch 0.5 1.0 0.543
lab*nch 0.0 1.0 0.543

relative Natural Colour (NC)
lab*lrj 0.821 -0.904 -0.423
lab*tce 0.5 1.0 0.57
lab*nce 0.0 1.0 g27b

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 0.5 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 39.19 -41.33 -11.36
LAB*LABa 39.19 -41.33 -11.36
LAB*TCHa 25.01 42.88 195.38

relative CIELAB lab*
lab*lab 0.411 -0.481 -0.132
lab*tch 0.25 0.5 0.543
lab*nch 0.5 0.5 0.543

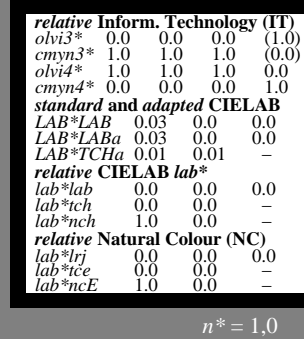
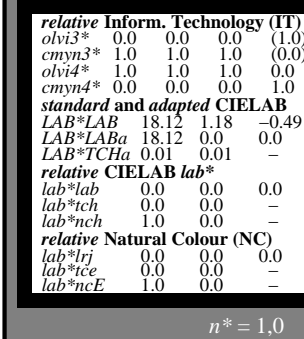
relative Natural Colour (NC)
lab*lrj 0.411 -0.452 -0.211
lab*tce 0.25 0.5 0.57
lab*nce 0.5 0.5 g27b

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* 1.0 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 -



RE10-7, 3 step scales for constant CIELAB hue 227/360 = 0.631 (left)

3 step scales for constant CIELAB hue 195/360 = 0.543 (right)

See for similar files: <http://www.ps.bam.de/RE10/>
Technical information: <http://www.ps.bam.de>
Version 2.1, io=1,1?

Input: Colorimetric Offset Reflective System ORS18

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

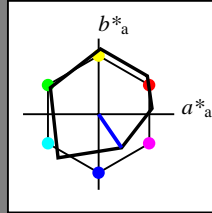
lab^*tch and lab^*nch

A: hue V

LCH*Ma: 26 54 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB 95.6 0.43 4.65 LAB*LABa 95.6 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 60.66 15.94 -19.84 LAB*LABa 60.66 15.17 -22.17 LAB*TCHa 75.0 26.87 304.36

relative CIELAB lab* lab*lab 0.549 0.282 -0.412 lab*tch 0.75 0.5 0.845 lab*nch 0.0 0.5 0.845

relative Natural Colour (NC) lab*lrj 0.549 0.274 -0.417 lab*tce 0.75 0.5 0.842 lab*nce 0.0 0.5 b36r

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 56.86 0.8 2.08 LAB*LABa 56.86 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 21.92 16.31 -22.41 LAB*LABa 21.92 15.17 -22.17 LAB*TCHa 25.01 26.87 304.36

relative CIELAB lab* lab*lab 0.049 0.282 -0.412 lab*tch 0.25 0.5 0.845 lab*nch 0.5 0.5 0.845

relative Natural Colour (NC) lab*lrj 0.049 0.274 -0.417 lab*tce 0.25 0.5 0.842 lab*nce 0.5 0.5 b36r

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 18.12 1.18 -0.49 LAB*LABa 18.12 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 -

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 289/360 = 0.802$

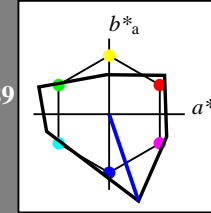
lab^*tch and lab^*nch

A: hue V

LCH*Ma: 13 121 289

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 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 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 53.98 19.4 -57.39 LAB*LABa 53.98 19.4 -57.39 LAB*TCHa 75.0 60.59 288.68

relative CIELAB lab* lab*lab 0.566 0.16 -0.473 lab*tch 0.75 0.5 0.802 lab*nch 0.0 0.5 0.802

relative Natural Colour (NC) lab*lrj 0.566 0.193 -0.46 lab*tce 0.75 0.5 0.813 lab*nce 0.0 0.5 b25r

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 0.5 (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 6.29 19.4 -57.39 LAB*LABa 6.29 19.4 -57.39 LAB*TCHa 25.01 60.59 288.68

relative CIELAB lab* lab*lab 0.066 0.16 -0.473 lab*tch 0.25 0.5 0.802 lab*nch 0.5 0.5 0.802

relative Natural Colour (NC) lab*lrj 0.066 0.193 -0.46 lab*tce 0.25 0.5 0.813 lab*nce 0.5 0.5 b25r

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 -

$n^* = 1.0$

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 $n^* = 0.50$ 0.75 1.00

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 $n^* = 0.50$ 0.75 1.00

RE100-7, 3 step scales for constant CIELAB hue 304/360 = 0.845 (left)

3 step scales for constant CIELAB hue 289/360 = 0.802 (right)

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

BAM registration: 20060101-RE10/10S/S10E04SP.PS/.PDF application for evaluation and measurement of printer or monitor systems BAM material: code=rh4da

See for similar files: http://www.ps.bam.de/RE10/ Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 6/360 = 0.017$

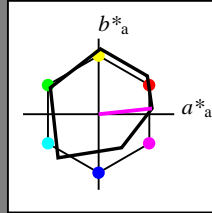
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 56 71 6

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 95.6, 0.43, 4.65.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 1.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 56.86, 0.8, 2.08.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.5, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.5, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 18.12, 1.18, -0.49.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.5, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 75.92, 35.91, 7.13.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.746, 0.497, 0.053.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.746, 0.476, -0.151.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.0, 0.5, 1.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 37.18, 36.28, 4.56.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.246, 0.497, 0.053.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.246, 0.476, -0.151.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 56.25, 71.39, 9.61.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.492, 0.994, 0.107.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.492, 0.953, -0.303.

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 339/360 = 0.941$

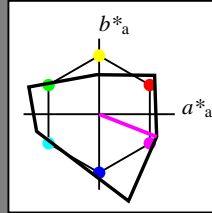
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 67 82 339

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 1.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 95.41, 0.0, 0.0.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 1.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 1.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 47.72, 0.0, 0.0.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.5, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.5, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.5, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 81.05, 38.03, -14.89.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.85, 0.465, -0.181.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.85, 0.407, -0.29.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 66.71, 76.06, -29.79.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.699, 0.931, -0.364.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.699, 0.813, -0.581.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 1.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 0.03, 0.0, 0.0.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.0, 0.5, 1.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 33.36, 38.03, -14.89.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.35, 0.465, -0.181.

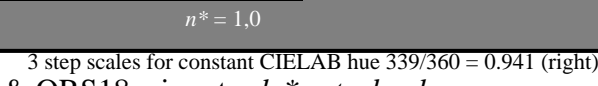
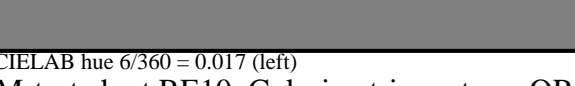
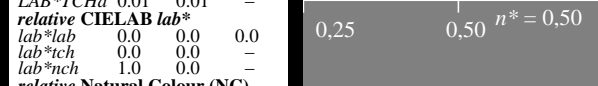
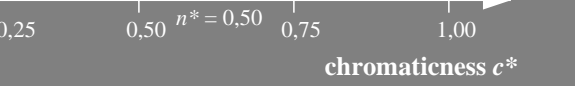
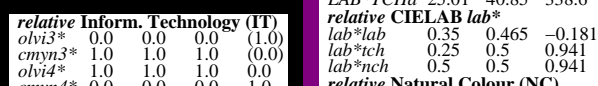
relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.35, 0.407, -0.29.

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB*LAB, LAB*LABa, LAB*TCHa and values 0.01, 0.01, -.

relative CIELAB lab* table with columns lab*lab, lab*tch, lab*nch and values 0.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab*lrj, lab*tce, lab*nce and values 0.0, 0.0, 0.0.



RE100-7, 3 step scales for constant CIELAB hue 6/360 = 0.017 (left)

3 step scales for constant CIELAB hue 339/360 = 0.941 (right)

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 34/360 = 0.095$

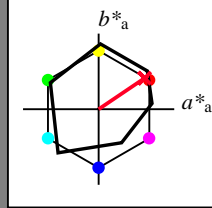
lab^*tch and lab^*nch

A: hue R

LCH*Ma: 49 79 34

olv*Ma: 1.0 0.0 0.15

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB 95.6 0.43 4.65 LAB*LABa 95.6 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.5, 0.575, 0.0.

standard and adapted CIELAB LAB*LAB 72.39 33.32 25.17 LAB*LABa 72.39 32.67 22.05 LAB*TCHa 75.0 39.41 34.02

relative CIELAB lab* lab*lab 0.7 0.414 0.28 lab*tch 0.75 0.5 0.095 lab*nch 0.0 0.5 0.095

relative Natural Colour (NC) lab*lrj 0.7 0.5 0.0 lab*tce 0.75 0.5 1.0 lab*nce 0.0 0.5 b99r

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0.

standard and adapted CIELAB LAB*LAB 56.86 0.8 2.08 LAB*LABa 56.86 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.0, 0.075, 0.0.

standard and adapted CIELAB LAB*LAB 33.65 33.7 22.6 LAB*LABa 33.65 32.67 22.06 LAB*TCHa 25.01 39.42 34.03

relative CIELAB lab* lab*lab 0.201 0.414 0.28 lab*tch 0.25 0.5 0.095 lab*nch 0.5 0.5 0.095

relative Natural Colour (NC) lab*lrj 0.201 0.5 0.0 lab*tce 0.25 0.5 0.0 lab*nce 0.5 0.5 r00j

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 18.12 1.18 -0.49 LAB*LABa 18.12 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0.

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 -

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 35/360 = 0.096$

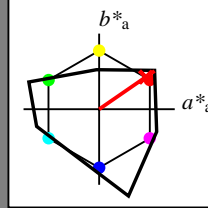
lab^*tch and lab^*nch

A: hue R

LCH*Ma: 66 89 35

olv*Ma: 1.0 0.0 0.01

triangle lightness t^*



TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.5, 0.505, 0.0.

standard and adapted CIELAB LAB*LAB 80.48 36.68 25.28 LAB*LABa 80.48 36.68 25.28 LAB*TCHa 75.0 44.55 34.58

relative CIELAB lab* lab*lab 0.844 0.412 0.284 lab*tch 0.75 0.5 0.096 lab*nch 0.0 0.5 0.096

relative Natural Colour (NC) lab*lrj 0.844 0.5 0.0 lab*tce 0.75 0.5 1.0 lab*nce 0.0 0.5 b99r

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 0.0.

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) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.0, 0.005, 0.0.

standard and adapted CIELAB LAB*LAB 32.79 36.68 25.29 LAB*LABa 32.79 36.68 25.29 LAB*TCHa 25.01 44.55 34.59

relative CIELAB lab* lab*lab 0.344 0.412 0.284 lab*tch 0.25 0.5 0.096 lab*nch 0.5 0.5 0.096

relative Natural Colour (NC) lab*lrj 0.344 0.5 0.0 lab*tce 0.25 0.5 0.0 lab*nce 0.5 0.5 r00j

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 0.0, 0.0, 0.0.

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 -

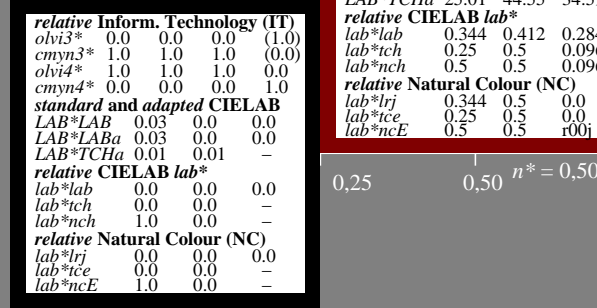
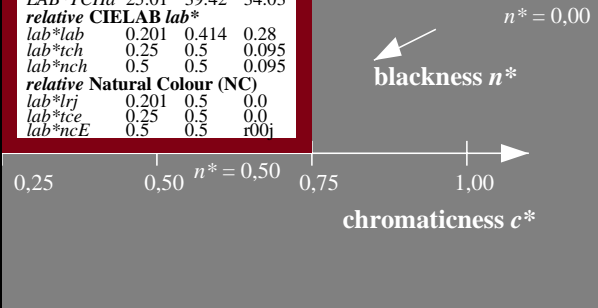
relative Natural Colour (NC) lab*lrj 0.0 0.0 0.0 lab*tce 0.0 0.0 - lab*nce 1.0 0.0 -

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 0.0, 0.0.

standard and adapted CIELAB LAB*LAB 65.57 73.35 50.57 LAB*LABa 65.57 73.35 50.57 LAB*TCHa 50.0 89.1 34.58

relative CIELAB lab* lab*lab 0.687 0.823 0.568 lab*tch 0.5 1.0 0.096 lab*nch 0.0 1.0 0.096

relative Natural Colour (NC) lab*lrj 0.687 1.0 0.0 lab*tce 0.5 1.0 0.0 lab*nce 0.0 1.0 r00j



RE100-7, 3 step scales for constant CIELAB hue 34/360 = 0.095 (left)

3 step scales for constant CIELAB hue 35/360 = 0.096 (right)

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 84/360 = 0.235$

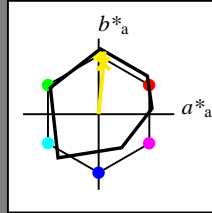
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 89 83 84

olv*Ma: 1.0 0.91 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.954, 0.5, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.908, 0.0, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 84/360 = 0.234$

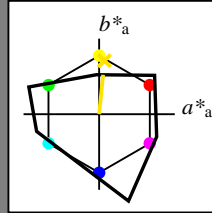
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 91 52 84

olv*Ma: 1.0 0.89 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.943, 0.5, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.887, 0.0, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.5, 0.5, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.0, 1.0, 1.0, 0.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 0.5, 0.443, 0.0, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

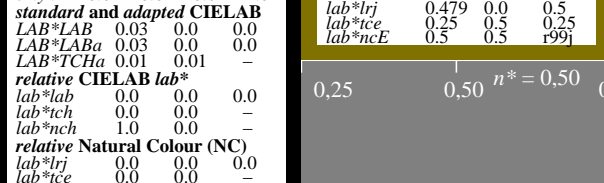
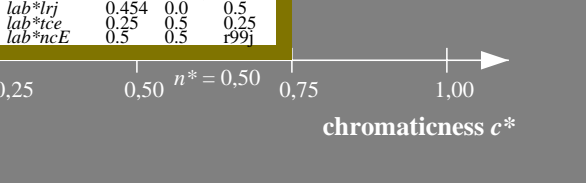
relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) table with columns olvi3*, cmyn3*, olvi4*, cmyn4* and values 1.0, 0.887, 0.0, 1.0.

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce



Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 176/360 = 0.488$

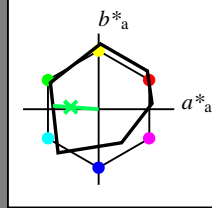
lab^*tch and lab^*nch

A: hue G

LCH*Ma: 51 61 176

olv*Ma: 0.0 1.0 0.33

triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 173/360 = 0.481$

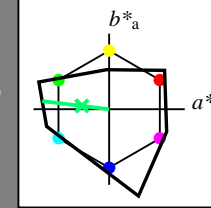
lab^*tch and lab^*nch

A: hue G

LCH*Ma: 78 89 173

olv*Ma: 0.0 1.0 0.43

triangle lightness t^*



%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

relative Inform. Technology (IT) olvi3*, cmyn3*, olvi4*, cmyn4*

standard and adapted CIELAB LAB*LAB, LAB*LABa, LAB*TCHa

relative CIELAB lab* lab*lab, lab*tch, lab*nch

relative Natural Colour (NC) lab*lrj, lab*tce, lab*nce

$n^* = 0.00$

$n^* = 0.50$

$n^* = 0.50$

blackness n^*

chromaticness c^*

blackness n^*

chromaticness c^*

RE100-7, 3 step scales for constant CIELAB hue 176/360 = 0.488 (left)

3 step scales for constant CIELAB hue 173/360 = 0.481 (right)

BAM-test chart RE10; Colorimetric systems ORS18 & ORS18

A: 2 coordinate data of 3 step colour scales for 10 hues

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

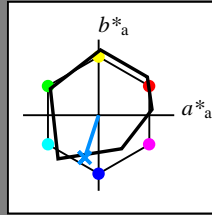
See for similar files: http://www.ps.bam.de/RE10/ Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-RE10/10S/S10E08SP.PS/.PDF application for evaluation and measurement of printer or monitor systems BAM material: code=rh4da

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 252/360 = 0.7$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 40 55 252
 olv*Ma: 0.0 0.56 1.0
 triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	64.42	50.58	81.9	38
YMa	92.62	2.41	86.36	86.39	88
LMa	50.9	-63.82	35.02	72.81	151
CMa	51.25	-53.68	-57.69	78.82	227
VMa	25.72	30.34	-44.37	53.76	304
MMa	56.25	70.59	7.57	70.99	6
NMa	18.11	0.0	0.0	0.0	0
WMa	95.6	0.0	0.0	0.0	0
RCIE	47.79	60.85	41.08	73.41	34
JCIE	83.82	6.52	66.9	67.22	84
GCIE	49.0	-36.83	2.78	36.95	176
BCIE	25.14	-18.35	-56.22	59.15	252

%Gamut

$u^*_{rel} = 96$

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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	95.6	0.43	4.65
LAB*LABa	95.6	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	56.86	0.8	2.08
LAB*LABa	56.86	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	18.12	1.18	-0.49
LAB*LABa	18.12	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	-

$n^* = 1.0$

relative Inform. Technology (IT)

olvi3*	0.5	0.781	1.0	(1.0)
cmyn3*	0.5	0.219	0.0	(0.0)
olvi4*	0.5	0.781	1.0	1.0
cmyn4*	0.5	0.219	0.0	0.0

standard and adapted CIELAB

LAB*LAB	67.84	-7.76	-23.11
LAB*LABa	67.84	-8.46	-25.92
LAB*TCHa	75.0	27.28	251.91

relative CIELAB lab*

lab*lab	0.642	-0.154	-0.474
lab*tch	0.75	0.5	0.7
lab*nch	0.0	0.5	0.7

relative Natural Colour (NC)

lab*lrj	0.642	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	0.281	0.5	(1.0)
cmyn3*	1.0	0.719	0.5	(0.0)
olvi4*	0.5	0.781	1.0	0.5
cmyn4*	0.5	0.219	0.0	0.5

standard and adapted CIELAB

LAB*LAB	29.1	-7.38	-25.68
LAB*LABa	29.1	-8.45	-25.92
LAB*TCHa	25.01	27.28	251.92

relative CIELAB lab*

lab*lab	0.142	-0.154	-0.474
lab*tch	0.25	0.5	0.7
lab*nch	0.5	0.5	0.7

relative Natural Colour (NC)

lab*lrj	0.142	0.0	-0.499
lab*tce	0.25	0.5	0.75
lab*nce	0.5	0.5	600r

$n^* = 0.50$

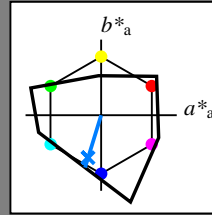


chromaticness c^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 253/360 = 0.703$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 45 72 253
 olv*Ma: 0.0 0.49 1.0
 triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	65.56	73.34	51.39	89.55	35
YMa	94.78	-3.49	52.24	52.36	94
LMa	77.48	-92.97	36.0	99.71	159
CMa	78.36	-82.69	-22.74	85.77	195
VMa	12.55	38.81	-114.81	121.2	289
MMa	66.71	76.08	-29.8	81.71	339
NMa	0.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	47.79	61.74	42.56	74.99	35
JCIE	83.82	7.06	70.78	71.13	84
GCIE	49.0	-35.95	4.34	36.22	173
BCIE	25.14	-17.24	-56.24	58.84	253

%Gamut

$u^*_{rel} = 141$

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

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	-

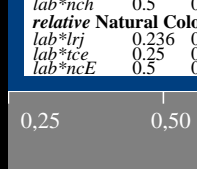
relative CIELAB lab*

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	-

$n^* = 1.0$



chromaticness c^*