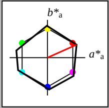
See for similar files: http://www.ps.bam.de/UE17/
Technical information: http://www.ps.bam.de Version 2.1, io=0,1, CIEXYZ

Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$
lab^*tch and lab^*nch

D65: hue R
LCH*Ma: 53 84 24
olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	53.2	77.06	34.32	84.36	24
J_{Ma}	53.2	−1.51	84.38	84.39	91
G_{Ma}	53.2	−82.27	18.98	84.44	167
$G50B_{Ma}$	53.2	−77.72	−32.98	84.44	203
B_{Ma}	53.2	4.37	−84.28	84.41	273
$B50R_{Ma}$	53.2	69.09	−48.41	84.37	325
N_{Ma}	10.99	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.69	27.98	65.01	25
J_{CIE}	81.26	−2.9	71.56	71.62	92
G_{CIE}	52.23	−42.45	13.59	44.59	162
B_{CIE}	30.57	1.35	−46.48	46.51	272

%Gamut
$u^*_{rel} = 119$
%Regularity
$g^*_{H,rel} = 47$
$g^*_{C,rel} = 100$

White (n* = 0,00, c* = 0)

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	−0.01	
*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*	74.3	38.55	17.16	
*LAB*LABa*	74.3	38.52	17.16	
*LAB*TCHa*	75.0	42.17	24.01	
relative CIELAB *lab**				
*lab*lab*	0.75	0.457	0.203	
*lab*tch*	0.75	0.5	0.067	
*lab*nch*	0.0	0.5	0.067	
relative Natural Colour (NC)				
*lab*lrj*	0.75	0.5	−0.009	
*lab*tce*	0.75	0.5	0.997	
*lab*ncE*	0.0	0.5	b98r	

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*	53.21	0.04	0.0	
*LAB*LABa*	53.21	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**	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*	53.2	77.09	34.32	
*LAB*LABa*	53.2	77.04	34.31	
*LAB*TCHa*	50.0	84.34	24.01	
relative CIELAB *lab**				
*lab*lab*	0.5	0.913	0.407	
*lab*tch*	0.5	1.0	0.067	
*lab*nch*	0.0	1.0	0.067	
relative Natural Colour (NC)				
*lab*lrj*	0.5	1.0	−0.019	
*lab*tce*	0.5	1.0	0.997	
*lab*ncE*	0.0	1.0	b98r	

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*	32.1	38.58	17.17	
*LAB*LABa*	32.1	38.52	17.16	
*LAB*TCHa*	25.01	42.17	24.01	
relative CIELAB *lab**				
*lab*lab*	0.25	0.457	0.203	
*lab*tch*	0.25	0.5	0.067	
*lab*nch*	0.5	0.5	0.067	
relative Natural Colour (NC)				
*lab*lrj*	0.25	0.5	−0.009	
*lab*tce*	0.25	0.5	0.997	
*lab*ncE*	0.5	0.5	b98r	

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*	11.01	0.07	0.01	
*LAB*LABa*	11.01	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	–	

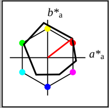
$n^* = 0{,}00$
blackness n^*
$n^* = 0{,}50$
0,25 0,50 0,75 1,00
chromaticness c^*
$n^* = 1{,}0$

Output: Colorimetric Reflective System ORS18

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

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

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	58.62	−30.35	−45.01	54.3	236
V_{Ma}	25.71	31.11	−44.42	54.24	305
M_{Ma}	48.13	75.27	−8.35	75.73	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.56	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
$u^*_{rel} = 93$
%Regularity
$g^*_{H,rel} = 57$
$g^*_{C,rel} = 59$

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*	71.67	32.15	28.41	
*LAB*LABa*	71.67	32.68	25.25	
*LAB*TCHa*	75.0	41.3	37.7	
relative CIELAB *lab**				
*lab*lab*	0.693	0.396	0.306	
*lab*tch*	0.75	0.5	0.105	
*lab*nch*	0.0	0.5	0.105	
relative Natural Colour (NC)				
*lab*lrj*	0.693	0.477	0.15	
*lab*tce*	0.75	0.5	0.048	
*lab*ncE*	0.0	0.5	r19j	

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**	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*	47.95	65.29	52.06	
*LAB*LABa*	47.95	65.36	50.51	
*LAB*TCHa*	50.0	82.6	37.7	
relative CIELAB *lab**				
*lab*lab*	0.387	0.791	0.611	
*lab*tch*	0.5	1.0	0.105	
*lab*nch*	0.0	1.0	0.105	
relative Natural Colour (NC)				
*lab*lrj*	0.387	0.954	0.299	
*lab*tce*	0.5	1.0	0.048	
*lab*ncE*	0.0	1.0	r19j	

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*	32.98	32.9	25.8	
*LAB*LABa*	32.98	32.68	25.25	
*LAB*TCHa*	25.01	41.3	37.7	
relative CIELAB *lab**				
*lab*lab*	0.193	0.396	0.306	
*lab*tch*	0.25	0.5	0.105	
*lab*nch*	0.5	0.5	0.105	
relative Natural Colour (NC)				
*lab*lrj*	0.193	0.477	0.15	
*lab*tce*	0.25	0.5	0.048	
*lab*ncE*	0.5	0.5	r19j	

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

UE170−7, 3 step scales for constant CIELAB hue 24/360 = 0.067 (left) 3 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM-test chart UE17; Colorimetric systems NRS11 & ORS18 input: *cmy0* setcmykcolor*
D65: 2 coordinate data of 3 step colour scales for 10 hues output: *olv* setrgbcolor / w* setgray*

BAM registration: 20060101-UE17/10Q/Q17E00F1.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems, Yr=2.5, XYZ