

www.ps-bam.de/TE11/L11E00F1.PS/TEXT; linearized output
 F: Output Linearization (OL) data TE11/L11E00F1.DAT in File (F)

Input: 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^*	b^*	C^*_{ab}	h^*_{ab}
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
ICIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Gamut
 $u^*_{rel} = 93$
 %Regularity
 $g^*_{Hrel} = 57$
 $g^*_{Crel} = 59$

relative Inform. Technology (IT)
 $olv^3 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^3 = 0.0$ 0.0 0.0 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 4.75
 LAB*LABo 95.41 0.0 0.0
 LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
 lab^*lab 1.0 0.5 0.5 (1.0)
 lab^*tch 1.0 0.0 -
 lab^*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 1.0 0.0 0.0
 lab^*tce 1.0 0.0 0.0
 lab^*nce 0.0 0.0 -

relative Inform. Technology (IT)
 $olv^3 = 0.5$ 0.5 0.5 (1.0)
 $cmyn^3 = 0.5$ 0.5 0.5 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABo 56.71 0.0 0.0
 LAB*TCHo 50.0 0.01 -

relative CIELAB lab*
 lab^*lab 0.5 0.0 0.0
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 0.5 0.0 0.0
 lab^*tce 0.5 0.0 0.0
 lab^*nce 0.5 0.0 -

relative Inform. Technology (IT)
 $olv^3 = 0.0$ 0.0 0.0 (1.0)
 $cmyn^3 = 1.0$ 1.0 1.0 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.46
 LAB*LABo 18.02 0.0 0.0
 LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
 lab^*lab 0.0 0.0 0.0
 lab^*tch 0.0 0.0 0.0
 lab^*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 0.0 0.0 0.0
 lab^*tce 0.0 0.0 0.0
 lab^*nce 1.0 0.0 -

$n^* = 1.0$

relative Inform. Technology (IT)
 $olv^3 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^3 = 0.0$ 0.5 0.5 (0.0)
 $olv^4 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^4 = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.67 32.15 28.41
 LAB*LABo 71.67 32.15 28.41
 LAB*TCHo 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^*lrr 0.693 0.477 0.15
 lab^*tce 0.75 0.5 0.048
 lab^*nce 0.0 0.5 r19

relative Inform. Technology (IT)
 $olv^3 = 0.5$ 0.0 0.0 (1.0)
 $cmyn^3 = 0.5$ 0.0 0.0 (0.0)
 $olv^4 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^4 = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 32.98 32.9 25.8
 LAB*LABo 32.98 32.68 25.25
 LAB*TCHo 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 0.0 0.5 0.105
 relative Natural Colour (NC)
 lab^*lrr 0.193 0.477 0.15
 lab^*tce 0.25 0.5 0.048
 lab^*nce 0.0 0.5 r19

relative Inform. Technology (IT)
 $olv^3 = 1.0$ 0.0 0.0 (1.0)
 $cmyn^3 = 0.0$ 0.0 0.0 (0.0)
 $olv^4 = 1.0$ 0.0 1.0 (0.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 47.95 65.29 52.06
 LAB*LABo 47.95 65.36 50.51
 LAB*TCHo 50.0 82.6 37.7

relative CIELAB lab*
 lab^*lab 0.387 0.791 0.611
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.0 1.0 0.105
 relative Natural Colour (NC)
 lab^*lrr 0.387 0.954 0.299
 lab^*tce 0.5 1.0 0.48
 lab^*nce 0.0 1.0 r19

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$
 lab^*tch and lab^*nch

D65: hue R
 LCH^{Ma}: 50 78 31
 olv^{Ma}: 1.0 0.0 0.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^* = L_a^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
RMa	49.63	66.8	40.02	77.87	31
YMa	90.7	-7.27	93.19	93.48	94
LMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
ICIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Gamut
 $u^*_{rel} = 92$
 %Regularity
 $g^*_{Hrel} = 42$
 $g^*_{Crel} = 49$

relative Inform. Technology (IT)
 $olv^3 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^3 = 0.0$ 0.0 0.0 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 0.01 0.0
 LAB*LABo 95.41 0.0 0.0
 LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
 lab^*lab 1.0 0.0 0.0
 lab^*tch 1.0 0.0 -
 lab^*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 1.0 0.0 0.0
 lab^*tce 1.0 0.0 0.0
 lab^*nce 0.0 0.0 -

relative Inform. Technology (IT)
 $olv^3 = 0.5$ 0.5 0.5 (1.0)
 $cmyn^3 = 0.5$ 0.5 0.5 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.71 0.05 0.0
 LAB*LABo 56.71 0.0 0.0
 LAB*TCHo 50.0 0.01 -

relative CIELAB lab*
 lab^*lab 0.5 0.0 0.0
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 0.5 0.0 0.0
 lab^*tce 0.5 0.0 0.0
 lab^*nce 0.5 0.0 -

relative Inform. Technology (IT)
 $olv^3 = 0.0$ 0.0 0.0 (1.0)
 $cmyn^3 = 1.0$ 1.0 1.0 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.1 0.02
 LAB*LABo 18.02 0.0 0.0
 LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
 lab^*lab 0.0 0.0 0.0
 lab^*tch 0.0 0.0 0.0
 lab^*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 0.0 0.0 0.0
 lab^*tce 0.0 0.0 0.0
 lab^*nce 1.0 0.0 -

$n^* = 1.0$

relative Inform. Technology (IT)
 $olv^3 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^3 = 0.0$ 0.5 0.5 (0.0)
 $olv^4 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^4 = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 72.52 33.43 20.01
 LAB*LABo 72.52 33.43 20.01
 LAB*TCHo 75.0 38.93 30.93

relative CIELAB lab*
 lab^*lab 0.704 0.429 0.257
 lab^*tch 0.75 0.5 0.086
 lab^*nch 0.0 0.5 0.086
 relative Natural Colour (NC)
 lab^*lrr 0.704 0.496 0.064
 lab^*tce 0.75 0.5 0.02
 lab^*nce 0.0 0.5 r08

relative Inform. Technology (IT)
 $olv^3 = 0.5$ 0.0 0.0 (1.0)
 $cmyn^3 = 0.5$ 0.0 0.0 (0.0)
 $olv^4 = 1.0$ 0.5 0.5 (1.0)
 $cmyn^4 = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 33.83 33.47 20.03
 LAB*LABo 33.82 33.39 20.01
 LAB*TCHo 25.01 38.93 30.93

relative CIELAB lab*
 lab^*lab 0.204 0.429 0.257
 lab^*tch 0.25 0.5 0.086
 lab^*nch 0.0 0.5 0.086
 relative Natural Colour (NC)
 lab^*lrr 0.204 0.496 0.064
 lab^*tce 0.25 0.5 0.02
 lab^*nce 0.0 0.5 r08

relative Inform. Technology (IT)
 $olv^3 = 0.0$ 0.0 0.0 (1.0)
 $cmyn^3 = 1.0$ 1.0 1.0 (0.0)
 $olv^4 = 1.0$ 1.0 1.0 (1.0)
 $cmyn^4 = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 lab^*lab 0.0 0.0 0.0
 lab^*tch 0.0 0.0 0.0
 lab^*nch 1.0 0.0 -
 relative Natural Colour (NC)
 lab^*lrr 0.0 0.0 0.0
 lab^*tce 0.0 0.0 0.0
 lab^*nce 1.0 0.0 -

$n^* = 0.00$

blackness n^*

chromaticness c^*

TE110-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

3 step scales for constant CIELAB hue 31/360 = 0.086 (right)

BAM-test chart TE11; Colorimetric systems ORS18 & MRS18a input: `olv* setrgbcolor`

D65: 2 coordinate data of 3 step colour scales for 10 hues

output: `olv* setrgbcolor / w* setgray`