

www.ps-bam.de/TE13/L13E00F1.PS/TEXT; linearized output
 F: Output Linearization (OL) data TE13/L13E00F1.DAT in File (F)

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^*

%Gamut	u_{rel} = 91
%Regularity	g_{rel} = 41
g_{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*LABo 95.41 0.0 0.0	
LAB*TCHo 99.99 0.01 -	
relative CIELAB lab*	
lab*lab 1.0 0.5 0.0 (1.0)	
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 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 (1.0)	
cmyn4* 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*lrj 0.5 0.0 0.0	
lab*tce 0.5 0.0 0.0	
lab*nce 0.5 0.0 -	

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

$n^* = 1.0$

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 32.47 19.18	
LAB*LABo 72.52 32.47 19.18	
LAB*TCHo 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 0.071	

relative Inform. Technology (IT)	
olvi3* 0.5 0.0 0.0 (1.0)	
cmyn3* 0.5 0.0 0.0 (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 33.82 33.67 19.79	
LAB*LABo 33.82 33.67 19.18	
LAB*TCHo 35.01 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 0.0 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 0.071	

$n^* = 0.00$
 blackness n^*

chromaticness c^*

MRS18; adapted (a) CIELAB data				
$L^* = L_a^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
RMa	49.63	66.96	38.37	77.18 30
GMa	90.7	-6.36	88.75	88.98 94
JMa	52.11	-69.73	9.44	70.37 172
G50BMa	45.03	-36.57	-28.47	46.36 218
BMa	36.65	23.19	-63.05	67.18 290
B50RMa	34.94	57.17	-44.26	72.31 322
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
JCIE	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

Output: Colorimetric Reflective System NCS11
 for hue $h^* = lab^*h = 24/360 = 0.066$
 lab^*tch and lab^*nch



D65: hue R
 LCH*Ma: 47 92 24
 olv*Ma: 1.0 0.0 0.0

triangle lightness t^*

%Gamut	u_{rel} = 149
%Regularity	g_{rel} = 46
g_{rel} = 65	
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*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 0.0 0.0 -	
relative Natural Colour (NC)	
lab*lrj 1.0 0.0 0.0	
lab*tce 1.0 0.0 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 (1.0)	
cmyn4* 0.0 0.5 0.5 (0.0)	
standard and adapted CIELAB	
LAB*LAB 53.21 0.04 0.0	
LAB*LABo 53.21 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*lrj 0.5 0.0 0.0	
lab*tce 0.5 0.0 0.0	
lab*nce 0.5 0.0 -	

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 11.01 0.07 0.01	
LAB*LABo 11.01 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 0.0 0.0 -	
relative Natural Colour (NC)	
lab*lrj 0.0 0.0 0.0	
lab*tce 0.0 0.0 0.0	
lab*nce 1.0 0.0 -	

$n^* = 1.0$

NCS11; adapted (a) CIELAB data				
$L^* = L_a^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
RMa	47.15	84.64	37.25	92.48 24
JMa	91.37	-1.27	125.03	125.03 91
GMa	63.07	-114.28	25.35	117.06 167
G50BMa	59.47	-80.6	-33.45	87.28 203
BMa	49.01	3.65	-81.19	81.28 273
B50RMa	44.06	106.09	-73.93	129.32 325
NMa	10.99	0.0	0.0	0.0 0
WMa	95.41	0.0	0.0	0.0 0
RCIE	39.92	58.69	27.98	65.01 25
JCIE	81.26	-2.9	71.56	71.62 92
GCIE	52.23	-42.45	13.59	44.59 162
BCIE	30.57	1.35	-46.48	46.51 272

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 71.27 42.34 18.63	
LAB*LABo 71.27 42.31 18.62	
LAB*TCHo 75.0 46.23 23.75	
relative CIELAB lab*	
lab*lab 0.714 0.458 0.201	
lab*tch 0.75 0.5 0.066	
lab*nch 0.0 0.5 0.066	
relative Natural Colour (NC)	
lab*lrj 0.714 0.5 -0.011	
lab*tce 0.75 0.5 0.096	
lab*nce 0.0 0.5 0.096	

relative Inform. Technology (IT)	
olvi3* 0.5 0.0 0.0 (1.0)	
cmyn3* 0.5 0.0 0.0 (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 29.07 42.38 18.64	
LAB*LABo 29.07 42.31 18.62	
LAB*TCHo 25.01 46.23 23.75	
relative CIELAB lab*	
lab*lab 0.214 0.458 0.201	
lab*tch 0.25 0.5 0.066	
lab*nch 0.5 0.0 0.066	
relative Natural Colour (NC)	
lab*lrj 0.214 0.5 -0.011	
lab*tce 0.25 0.5 0.096	
lab*nce 0.5 0.5 0.096	

chromaticness c^*

$n^* = 1.0$

TE130-7, 3 step scales for constant CIELAB hue 30/360 = 0.083 (left)

3 step scales for constant CIELAB hue 24/360 = 0.066 (right)

BAM-test chart TE13; Colorimetric systems MRS18 & NCS11a input: olv* setrgbcolor
 D65: 2 coordinate data of 3 step colour scales for 10 hues output: w* setrgbcolor