

www.ps.bam.de/TE53/10S/S53E00FP.PS/.PDF; linearized output
F: Output Linearization (OL) data TE53/10S/S53E00FP.DAT in File (F)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

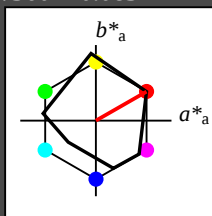
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	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
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

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1.00

0.75

$n^* = 0.00$

0.25

0.00

0.75

1.00

chromaticness c^*

$n^* = 0.25$

$n^* = 0.50$

0.25

0.50

0.75

1.00

blackness n^*

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

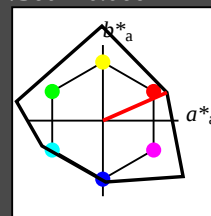
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



NCS11; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	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

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0.00$

0.25

0.00

0.75

1.00

chromaticness c^*

$n^* = 0.50$

$n^* = 1.00$

0.50

1.00

blackness n^*

TE530-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

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

BAM-test chart TE53; Colorimetric systems MRS18 & NCS11a input: $olv^* setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System MRS18

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

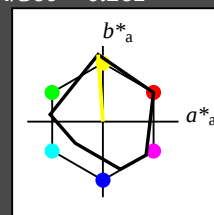
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

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	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0
cmyn3*	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
cmyn3*	0.0	0.0	0.0
cmyn4*	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.985	-0.017	0.249
lab*tch	0.875	0.25	0.261
lab*nch	0.0	0.25	0.261
cmyn3*	0.0	0.25	0.261
cmyn4*	0.0	0.0	0.25

standard and adapted CIELAB

LAB*LAB	94.22	-2.54	26.86
LAB*Lab	94.22	-1.58	22.18
LAB*TCh	97.5	22.24	94.1

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

relative CIELAB lab*

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75
lab*tch	0.75	0.75	0.75
lab*nch	0.75	0.75	0.75
cmyn3*	0.75	0.75	0.75
cmyn4*	0.75	0.75	0.75

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCh	75.0	0.01	-

MRS18; adapted (a) CIELAB data

$L^*=L^*_a$ a^*_a b^*_a $C^*_{ab,a}$ $h^*_{ab,a}$

RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	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

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	0.5	(1.0)
cmyn3*	0.0	0.0	0.5	(0.0)
olvi4*	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)
LAB*LAB	93.05	-4.11	48.97	
LAB*Lab	93.05	-3.17	44.37	
LAB*TCh	75.0	44.48	94.1	

relative CIELAB lab*

lab*lab	0.989	-0.035	0.499
lab*tch	0.75	0.5	0.261
lab*nch	0.0	0.5	0.261
cmyn3*	0.0	0.5	0.261
cmyn4*	0.0	0.0	0.5

standard and adapted CIELAB

LAB*LAB	91.87	-5.68	71.07
LAB*Lab	91.87	-4.77	66.55
LAB*TCh	62.5	66.73	94.1

relative Inform. Technology (IT)

<i>olvi3*</i>	1.0	1.0	0.25	(1.0)
<i>cmyn3*</i>	0.0	0.0	0.75	(0.0)
<i>olvi4*</i>	1.0	1.0	0.25	(1.0)
<i>cmyn4*</i>	0.0	0.0	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	91.87	-5.68	71.07
LAB*LAB _a	91.87	-4.77	66.55
LAB*TCH _a	62.5	66.73	94.1

relative CIELAB lab*

lab*lab	0.954	-0.053	0.748
lab*tch	0.625	0.75	0.261
lab*nch	0.0	0.75	0.261
cmyn3*	0.0	0.75	0.261
cmyn4*	0.0	0.0	0.75

standard and adapted CIELAB

LAB*LAB	91.87	-5.68	71.07
LAB*Lab	91.87	-4.77	66.55
LAB*TCh	62.5	66.73	94.1

relative CIELAB lab*			
lab*lab	0.954	-0.053	0.74
lab*tch	0.625	0.75	0.26
lab*nch	0.0	0.75	0.26
relative Natural Colour (NC)			
lab*lrj	0.954	-0.036	0.74
lab*tce	0.625	0.75	0.25
lab*nce	0.0	0.75	0.26

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
cmyn3*	0.0	1.0	0.261
cmyn4*	0.0	0.0	1.0

standard and adapted CIELAB

LAB*LAB	90.69	-7.25	93.17
LAB*Lab	90.69	-6.36	88.73
LAB*TCh	50.0	88.96	94.1

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.0	(1.0)
cmyn3*	0.25	0.25	1.0	(0.0)
olvi4*	1.0	1.0	0.25	0.75
cmyn4*	0.0	0.0	0.75	0.25

standard and adapted CIELAB

LAB*LAB	72.53	-5.31	69.77
LAB*Lab	72.53	-4.77	66.55
LAB*TCh	37.51	66.73	94.1

relative CIELAB lab*

relative CIELAB lab*

lab*lab	0.704	-0.053	0.748
lab*tch	0.375	0.75	0.261
lab*nch	0.0	0.75	0.261
cmyn3*	0.0	0.75	0.261
cmyn4*	0.0	0.0	0.75

standard and adapted CIELAB

LAB*LAB	72.53	-5.31	69.77
LAB*Lab	72.53	-4.77	66.55
LAB*TCh	37.51	66.73	94.1

lab*lab	0.704	-0.053	0.74
lab*tch	0.375	0.75	0.26
lab*nch	0.25	0.75	0.26
relative Natural Colour (NC)			
lab*lrj	0.704	-0.036	0.74
lab*tce	0.375	0.75	0.25
lab*nce	0.25	0.75	0.25

$n^* \equiv 0.25$

relative CIELAB lab*

lab*lab	0.704	-0.053	0.748
lab*tch	0.375	0.75	0.261
lab*nch	0.0	0.75	0.261
cmyn3*	0.0	0.75	0.261
cmyn4*	0.0	0.0	0.75

standard and adapted CIELAB

LAB*LAB	72.53	-5.31	69.77
LAB*Lab	72.53	-4.77	66.55
LAB*TCh	37.51	66.73	94.1

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	72.53	-5.31	69.77	
LAB*Lab	72.53	-4.77	66.55	
LAB*TCh	37.51	66.73	94.1	

relative CIELAB lab*

lab*lab	0.704	-0.053	0.748
lab*tch	0.375	0.75	0.261
lab*nch	0.0	0.75	0.261
cmyn3*	0.0	0.75	0.261
cmyn4*	0.0	0.0	0.75

standard and adapted CIELAB

LAB*LAB	72.53	-5.31	69.77
LAB*Lab	72.53	-4.77	66.55
LAB*TCh	37.51	66.73	94.1

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	72.53	-5.31	69.77	
LAB*Lab	72.53	-4.77	66.55	
LAB*TCh	37.51	66.73	94.1	

relative CIELAB lab*

lab*lab	0.704	-0.053
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Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

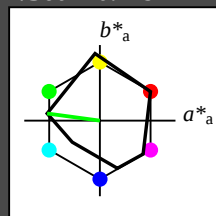
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

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	47.5
LAB*Lab	95.41	0.0	0.0
LAB*TCa	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	1.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	1.0	0.75	(1.0)
cmyn4*	0.25	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	84.58	-18.19	6.39
LAB*Lab	84.58	-17.42	2.36
LAB*TCa	87.5	-17.59	17.29

relative CIELAB lab*

lab*lab	0.86	-0.247	0.034
lab*tch	0.875	0.25	0.479
lab*nch	0.0	0.25	0.479

relative Natural Colour (NC)

lab*trj	0.86	-0.247	-0.028
lab*tce	0.875	0.25	0.518
lab*nce	0.0	0.25	0.479

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*Lab	73.75	-34.85	4.72
LAB*TCa	75.0	-35.18	17.29

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*trj	0.72	-0.494	-0.056
lab*tce	0.75	0.5	0.518
lab*nce	0.0	0.5	0.479

relative Inform. Technology (IT)

olvi3*	0.25	1.0	0.25	(1.0)
cmyn3*	0.75	0.0	0.75	(0.0)
olvi4*	0.25	1.0	0.25	(1.0)
cmyn4*	0.75	0.0	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	62.93	-52.64	9.65
LAB*Lab	62.93	-52.28	7.08
LAB*TCa	62.5	-52.77	17.29

relative CIELAB lab*

lab*lab	0.58	-0.742	0.101
lab*tch	0.625	0.75	0.479
lab*nch	0.0	0.75	0.479

relative Natural Colour (NC)

lab*trj	0.58	-0.744	-0.085
lab*tce	0.625	0.75	0.518
lab*nce	0.0	0.75	0.479

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*Lab	52.11	-69.71	9.44
LAB*TCa	50.0	-70.36	17.29

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*trj	0.441	-0.992	-0.114
lab*tce	0.5	1.0	0.518
lab*nce	0.0	1.0	0.479

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	53.21	0.04	0.0
LAB*Lab	53.21	0.04	0.0
LAB*TCa	50.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.25	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	45.12	-28.51	6.35
LAB*Lab	45.12	-28.56	6.34
LAB*TCa	37.5	-29.27	16.75

relative CIELAB lab*

lab*lab	0.404	-0.243	0.054
lab*tch	0.375	0.25	0.465
lab*nch	0.0	0.25	0.465

relative Natural Colour (NC)

lab*trj	0.404	-0.248	-0.018
lab*tce	0.375	0.25	0.512
lab*nce	0.0	0.25	0.465

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	37.04	-57.19	12.67
LAB*Lab	37.04	-57.12	12.67
LAB*TCa	25.01	-58.52	16.75

relative CIELAB lab*

lab*lab	0.309	-0.487	0.108
lab*tch	0.25	0.5	0.465
lab*nch	0.0	0.5	0.465

relative Natural Colour (NC)

lab*trj	0.309	-0.493	-0.037
lab*tce	0.25	0.5	0.512
lab*nce	0.0	0.5	0.465

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.0	0.0	(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	37.04	-57.19	12.67
LAB*Lab	37.04	-57.12	12.67
LAB*TCa	25.01	-58.52	16.75

relative CIELAB lab*

lab*lab	0.309	-0.487	0.108
lab*tch	0.25	0.5	0.465
lab*nch	0.0	0.5	0.465

relative Natural Colour (NC)

lab*trj	0.309	-0.493	-0.037
lab*tce	0.25	0.5	0.512
lab*nce	0.0	0.5	0.465

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.0	0.0	(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	37.04	-57.19	12.67
LAB*Lab	37.04	-57.12	12.67
LAB*TCa	25.01	-58.52	16.75

relative CIELAB lab*

lab*lab	0.309	-0.487	0.108
lab*tch	0.25	0.5	0.465
lab*nch	0.0	0.5	0.465

relative Natural Colour (NC)

lab*trj	0.309	-0.493	-0.037
lab*tce	0.25	0.5	0.512
lab*nce	0.0	0.5	0.465

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(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	76.06	-0.6	3.44
LAB*Lab	76.06	0.0	0.0
LAB*TCa	75.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*tch	0.75	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.75	0.0	0.0
lab*tce	0.75	0.0	0.0
lab*nce	0.0	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*Lab	56.71	0.0	0.0
LAB*TCa	50.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	0.25	0.25	0.25	(1.0)
cmyn4*	0.75	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	45.88	-17.46	3.78
LAB*Lab	45.88	-17.42	2.36
LAB*TCa	37.5	-17.59	17.29

relative CIELAB lab*

lab*lab	0.36	-0.247	0.034
lab*tch	0.375	0.25	0.479
lab*nch	0.0	0.25	0.479

relative Natural Colour (NC)

lab*trj	0.36	-0.247	-0.028
lab*tce	0.375	0.25	0.518
lab*nce	0.0	0.25	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.75	0.0	(1.0)
cmyn3*	0.75	0.25	0.75	(0.0)
olvi4*	0.0	0.75	0.0	(1.0)
cmyn4*	0.75	0.25	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	44.41	-35.05	6.71
LAB*Lab	44.41	-34.86	4.72
LAB*TCa	50.0	-35.18	17.29

relative CIELAB lab*

lab*lab	0.47	-0.494	0.067
lab*tch	0.5	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*trj	0.47	-0.496	-0.056
lab*tce	0.5	0.5	0.518
lab*nce	0.0	0.5	0.479

relative Inform. Technology (IT)

olvi3*	0.0	0.75	0.0	(1.0)
cmyn3*	0.75	0.25	0.75	(0.0)
olvi4*	0.0	0.75	0.0	(1.0)
cmyn4*	0.75	0.25	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	43.59	-34.67	5.41
LAB*Lab	43.59	-34.67	5.41
LAB*TCa	37.51	-35.18	17.29

relative CIELAB lab*

lab*lab	0.33	-0.742	0.101
lab*tch	0.375	0.75	0.479
lab*nch	0.0	0.75	0.479

relative Natural Colour (NC)

lab*trj	0.33	-0.744	-0.085
lab*tce	0.375	0.75	0.518
lab*nce	0.0	0.75	0.479

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.25	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	43.59	-34.67	5.41
LAB*Lab	43.59	-34.67	5.41
LAB*TCa	37.51	-35.18	17.29

relative CIELAB lab*

lab*lab	0.33	-0.742	0.101
lab*tch	0.375	0.75	0.479
lab*nch	0.0	0.75	0.479

relative Natural Colour (NC)

lab*trj	0.33	-0.744	-0.085
lab*tce	0.375	0.75	0.518
lab*nce	0.0	0.75	0.479

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	53.21	0.04	0.0
LAB*Lab	53.21	0.04	0.0
LAB*TCa	50.0	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.25	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	45.12	-28.51	6.35
LAB*Lab	45.12	-28.56	6.34
LAB*TCa	37.5	-29.27	16.75

relative CIELAB lab*

lab*lab	0.404	-0.243	0.054
lab*tch	0.375	0.25	0.465
lab*nch	0.0	0.25	0.465

relative Natural Colour (NC)

lab*trj	0.404	-0.248	-0.018
lab*tce	0.375	0.25	0.512
lab*nce	0.0	0.25	0.465

0.75

www.ps.bam.de/TE53/10S/S53E03FP.PS/.PDF; linearized output
F: Output Linearization (OL) data TE53/10S/S53E03FP.DAT in File (F)

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

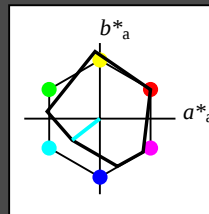
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

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)
LAB*LAB	95.41	-0.97	47.5	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.06	-0.6	3.44	0.0
LAB*LABa	76.06	0.0	0.0	0.0
LAB*LABb	75.0	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.837	-0.196	-0.153
lab*tch	0.875	0.25	0.605
lab*nch	0.0	0.25	0.605
relative Natural Colour (NC)	0.0	0.25	0.605
lab*trj	0.837	-0.176	-0.176
lab*tce	0.875	0.25	0.625
lab*nce	0.0	0.25	0.625

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
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)
LAB*LAB	56.71	-0.23	2.14	0.0
LAB*LABa	56.71	0.0	0.0	0.0
LAB*LABb	50.0	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.5
lab*tch	0.5	0.5	0.5
lab*nch	0.5	0.5	0.5
relative Natural Colour (NC)	0.5	0.5	0.5
lab*trj	0.5	0.5	0.5
lab*tce	0.5	0.5	0.5
lab*nce	0.5	0.5	0.5

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.36	-0.33	0.63	0.0
LAB*LABa	37.36	0.0	0.0	0.0
LAB*LABb	25.0	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.337	-0.196	-0.153
lab*tch	0.375	0.25	0.605
lab*nch	0.0	0.25	0.605
relative Natural Colour (NC)	0.0	0.25	0.605
lab*trj	0.337	-0.176	-0.176
lab*tce	0.375	0.25	0.625
lab*nce	0.0	0.25	0.625

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.02	0.0	0.46	0.0
LAB*LABa	18.02	0.0	0.0	0.0
LAB*LABb	0.01	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.36	-0.33	0.63	0.0
LAB*LABa	37.36	0.0	0.0	0.0
LAB*LABb	25.0	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.337	-0.196	-0.153
lab*tch	0.375	0.25	0.605
lab*nch	0.0	0.25	0.605
relative Natural Colour (NC)	0.0	0.25	0.605
lab*trj	0.337	-0.176	-0.176
lab*tce	0.375	0.25	0.625
lab*nce	0.0	0.25	0.625

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.02	0.0	0.46	0.0
LAB*LABa	18.02	0.0	0.0	0.0
LAB*LABb	0.01	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.02	0.0	0.46	0.0
LAB*LABa	18.02	0.0	0.0	0.0
LAB*LABb	0.01	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.02	0.0	0.46	0.0
LAB*LABa	18.02	0.0	0.0	0.0
LAB*LABb	0.01	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

$n^* = 1.0$

MRS18; adapted (a) CIELAB data

$L^* = L^*_a$ a^*_a b^*_a $C^*_{ab,a}$ $h^*_{ab,a}$

RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	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

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

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)
LAB*LAB	70.21	-18.77	-11.17	0.0
LAB*LABa	70.21	-18.77	-11.17	0.0
LAB*LABb	75.0	23.17	21.91	0.0

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)	0.0	0.5	0.605
lab*trj	0.674	-0.353	-0.352
lab*tce	0.75	0.5	0.625
lab*nce	0.0	0.5	0.625

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	50.87	-18.4	-12.48	0.0
LAB*LABa	50.87	-18.28	-14.23	0.0
LAB*LABb	50.0	23.18	21.91	0.0

relative CIELAB lab*

lab*lab	0.425	-0.394	-0.306
lab*tch	0.5	0.5	0.605
lab*nch	0.0	0.5	0.605
relative Natural Colour (NC)	0.0	0.5	0.605
lab*trj	0.425	-0.353	-0.352
lab*tce	0.5	0.5	0.625
lab*nce	0.0	0.5	0.625

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	38.28	-27.3	-20.44	0.0
LAB*LABa	38.28	-27.42	-21.35	0.0
LAB*LABb	37.51	34.76	21.91	0.0

relative CIELAB lab*

lab*lab	0.262	-0.591	-0.46
lab*tch	0.375	0.75	0.605
lab*nch	0.0	0.75	0.605
relative Natural Colour (NC)	0.0	0.75	0.605
lab*trj	0.262	-0.529	-0.529
lab*tce	0.375	0.75	0.625
lab*nce	0.0	0.75	0.625

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(0.0)
cmyn3*	1.0	1.0	1.0	(1.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	31.52	-18.27	-14.23	0.0
LAB*LABa	31.52	-18.27	-14.23	0.0
LAB*LABb	25.01	23.17	21.91	0.0

relative CIELAB lab*

lab*lab	0.175	-0.393	-0.306
lab*tch	0.25	0.5	0.605
lab*nch	0.0	0.5	0.605
relative Natural Colour (NC)	0.0	0.5	0.605
lab*trj	0.175	-0.353	-0.352
lab*tce	0.25	0.5	0.625
lab*nce	0.0	0.5	0.625

$n^* = 0.50$

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

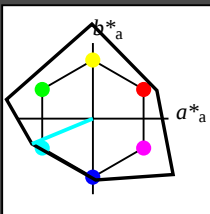
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 149$

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)
LAB*LAB	95.41	0.0	-0.01	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0
relative Natural Colour (NC)	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75
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Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 164/360 = 0.457$

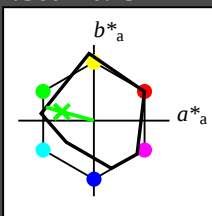
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness t^*



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 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.873 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.873 -0.24 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.457

MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	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

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 0.321 0.103 1.0 0.0 (1.0)
cmyn3* 0.679 0.897 0.0 0.0 (0.0)
olvi4* 0.321 0.103 1.0 0.0 (1.0)
cmyn4* 0.679 0.897 0.0 0.0 (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*trj 0.746 -0.481 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olvi3* 0.321 0.103 1.0 0.0 (1.0)
cmyn3* 0.679 0.897 0.0 0.0 (0.0)
olvi4* 0.321 0.103 1.0 0.0 (1.0)
cmyn4* 0.679 0.897 0.0 0.0 (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*trj 0.746 -0.481 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olvi3* 0.321 0.103 1.0 0.0 (1.0)
cmyn3* 0.679 0.897 0.0 0.0 (0.0)
olvi4* 0.321 0.103 1.0 0.0 (1.0)
cmyn4* 0.679 0.897 0.0 0.0 (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*trj 0.746 -0.481 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olvi3* 0.321 0.103 1.0 0.0 (1.0)
cmyn3* 0.679 0.897 0.0 0.0 (0.0)
olvi4* 0.321 0.103 1.0 0.0 (1.0)
cmyn4* 0.679 0.897 0.0 0.0 (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*trj 0.746 -0.481 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olvi3* 0.321 0.103 1.0 0.0 (1.0)
cmyn3* 0.679 0.897 0.0 0.0 (0.0)
olvi4* 0.321 0.103 1.0 0.0 (1.0)
cmyn4* 0.679 0.897 0.0 0.0 (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*trj 0.746 -0.481 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.457

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$

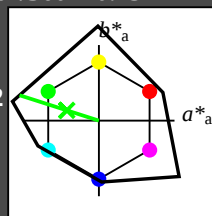
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness t^*



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 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (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 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.911 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.911 -0.237 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.451

NCS11; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	

