

Input: Colorimetric Reflective System MRS18

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

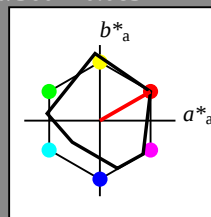
lab^*tch and lab^*nch

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

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

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

relative Inform. Technology (IT)	
olvi3*	1.0 1.0 1.0 (1.0)
olvi4*	0.0 0.0 0.0 (0.0)
olvi5*	0.0 0.0 0.0 (0.0)
olvi6*	0.0 0.0 0.0 (0.0)
olvi7*	0.0 0.0 0.0 (0.0)
olvi8*	0.0 0.0 0.0 (0.0)
olvi9*	0.0 0.0 0.0 (0.0)
olvi10*	0.0 0.0 0.0 (0.0)
olvi11*	0.0 0.0 0.0 (0.0)
olvi12*	0.0 0.0 0.0 (0.0)
olvi13*	0.0 0.0 0.0 (0.0)
olvi14*	0.0 0.0 0.0 (0.0)
olvi15*	0.0 0.0 0.0 (0.0)
olvi16*	0.0 0.0 0.0 (0.0)
olvi17*	0.0 0.0 0.0 (0.0)
olvi18*	0.0 0.0 0.0 (0.0)
olvi19*	0.0 0.0 0.0 (0.0)
olvi20*	0.0 0.0 0.0 (0.0)
olvi21*	0.0 0.0 0.0 (0.0)
olvi22*	0.0 0.0 0.0 (0.0)
olvi23*	0.0 0.0 0.0 (0.0)
olvi24*	0.0 0.0 0.0 (0.0)
olvi25*	0.0 0.0 0.0 (0.0)
olvi26*	0.0 0.0 0.0 (0.0)
olvi27*	0.0 0.0 0.0 (0.0)
olvi28*	0.0 0.0 0.0 (0.0)
olvi29*	0.0 0.0 0.0 (0.0)
olvi30*	0.0 0.0 0.0 (0.0)
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olvi32*	0.0 0.0 0.0 (0.0)
olvi33*	0.0 0.0 0.0 (0.0)
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olvi36*	0.0 0.0 0.0 (0.0)
olvi37*	0.0 0.0 0.0 (0.0)
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olvi39*	0.0 0.0 0.0 (0.0)
olvi40*	0.0 0.0 0.0 (0.0)
olvi41*	0.0 0.0 0.0 (0.0)
olvi42*	0.0 0.0 0.0 (0.0)
olvi43*	0.0 0.0 0.0 (0.0)
olvi44*	0.0 0.0 0.0 (0.0)
olvi45*	0.0 0.0 0.0 (0.0)
olvi46*	0.0 0.0 0.0 (0.0)
olvi47*	0.0 0.0 0.0 (0.0)
olvi48*	0.0 0.0 0.0 (0.0)
olvi49*	0.0 0.0 0.0 (0.0)
olvi50*	0.0 0.0 0.0 (0.0)
olvi51*	0.0 0.0 0.0 (0.0)
olvi52*	0.0 0.0 0.0 (0.0)
olvi53*	0.0 0.0 0.0 (0.0)
olvi54*	0.0 0.0 0.0 (0.0)
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olvi56*	0.0 0.0 0.0 (0.0)
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olvi59*	0.0 0.0 0.0 (0.0)
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olvi61*	0.0 0.0 0.0 (0.0)
olvi62*	0.0 0.0 0.0 (0.0)
olvi63*	0.0 0.0 0.0 (0.0)
olvi64*	0.0 0.0 0.0 (0.0)
olvi65*	0.0 0.0 0.0 (0.0)
olvi66*	0.0 0.0 0.0 (0.0)
olvi67*	0.0 0.0 0.0 (0.0)
olvi68*	0.0 0.0 0.0 (0.0)
olvi69*	0.0 0.0 0.0 (0.0)
olvi70*	0.0 0.0 0.0 (0.0)
olvi71*	0.0 0.0 0.0 (0.0)
olvi72*	0.0 0.0 0.0 (0.0)
olvi73*	0.0 0.0 0.0 (0.0)
olvi74*	0.0 0.0 0.0 (0.0)
olvi75*	0.0 0.0 0.0 (0.0)
olvi76*	0.0 0.0 0.0 (0.0)
olvi77*	0.0 0.0 0.0 (0.0)
olvi78*	0.0 0.0 0.0 (0.0)
olvi79*	0.0 0.0 0.0 (0.0)
olvi80*	0.0 0.0 0.0 (0.0)
olvi81*	0.0 0.0 0.0 (0.0)
olvi82*	0.0 0.0 0.0 (0.0)
olvi83*	0.0 0.0 0.0 (0.0)
olvi84*	0.0 0.0 0.0 (0.0)
olvi85*	0.0 0.0 0.0 (0.0)
olvi86*	0.0 0.0 0.0 (0.0)
olvi87*	0.0 0.0 0.0 (0.0)
olvi88*	0.0 0.0 0.0 (0.0)
olvi89*	0.0 0.0 0.0 (0.0)
olvi90*	0.0 0.0 0.0 (0.0)
olvi91*	0.0 0.0 0.0 (0.0)
olvi92*	0.0 0.0 0.0 (0.0)
olvi93*	0.0 0.0 0.0 (0.0)
olvi94*	0.0 0.0 0.0 (0.0)
olvi95*	0.0 0.0 0.0 (0.0)
olvi96*	0.0 0.0 0.0 (0.0)
olvi97*	0.0 0.0 0.0 (0.0)
olvi98*	0.0 0.0 0.0 (0.0)
olvi99*	0.0 0.0 0.0 (0.0)
olvi100*	0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)	
olvi3*	1.0 0.75 0.75 (1.0)
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olvi50*	0.0 0.25 0.25 (0.0)
olvi51*	0.0 0.75 0.75 (1.0)
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olvi74*	0.0 0.25 0.25 (0.0)
olvi75*	0.0 0.75 0.75 (1.0)
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olvi63*	0.0 0.75 0.75 (1.0)
olvi64*	0.0 0.25 0.25 (0.0)
olvi65*	0.0 0.75 0.75 (1.0)
olvi66*	0.0 0.25 0.25 (0.0)
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olvi89*	0.0 0.75 0.75 (1.0)
olvi90*	0.0 0.25 0.25 (0.0)
olvi91*	0.0 0.75 0.75 (1.0)
olvi92*	0.0 0.25 0.25 (0.0)
olvi93*	0.0 0.75 0.75 (1.0)
olvi94*	0.0 0.25 0.25 (0.0)
olvi95*	0.0 0.75 0.75 (1.0)
olvi96*	0.0 0.25 0.25 (0.0)
olvi97*	0.0 0.75 0.75 (1.0)
olvi98*	0.0 0.25 0.25 (0.0)
olvi99*	0.0 0.75 0.75 (1.0)
olvi100*	0.0 0.25 0.25 (0.0)

relative Inform. Technology (IT)	
olvi3*	1.0 0.75 0.75 (1.0)
olvi4*	0.0 0.25 0.25 (0.0)
olvi5*	0.0 0.75 0.75 (1.0)
olvi6*	0.0 0.25 0.25 (0.0)
olvi7*	0.0 0.75 0.75 (1.0)
olvi8*	0.0 0.25 0.25 (0.0)
olvi9*	0.0 0.75 0.75 (1.0)
olvi10*	0.0 0.25 0.25 (0.0)
olvi11*	0.0 0.75 0.75 (1.0)
olvi12*	0.0 0.25 0.25 (0.0)
olvi13*	0.0 0.75

Input: Colorimetric Reflective System MRS18

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

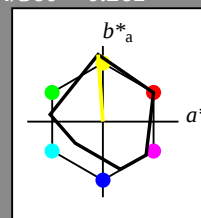
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



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
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%Regularity

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

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

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olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
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olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

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olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
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olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

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olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

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olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

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olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

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Input: Colorimetric Reflective System MRS18

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

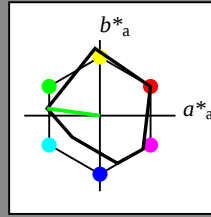
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



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 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 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 (0.0)
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 50.00 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 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 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 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 1.0 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (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 73.75 -35.42 8.02
LAB*LABa 73.75 -34.85 4.72
LAB*TCHa 75.00 35.18 172.29

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 -0.496 -0.056
lab*tce 0.75 0.5 0.518
lab*nce 0.0 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 54.41 -35.05 6.71
LAB*LABa 54.41 -34.86 4.72
LAB*TCHa 50.00 35.19 172.29

relative CIELAB lab*
lab*lab 0.61 -0.494 0.067
lab*tch 0.625 0.25 0.479
lab*nch 0.25 0.25 0.479
relative Natural Colour (NC)
lab*trj 0.61 -0.496 -0.056
lab*tce 0.625 0.25 0.518
lab*nce 0.25 0.25 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.0
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 45.88 -17.46 3.78
LAB*LABa 45.88 -17.42 2.36
LAB*TCHa 37.5 17.59 172.29

relative CIELAB lab*
lab*lab 0.36 -0.247 -0.028
lab*tch 0.375 0.25 0.479
lab*nch 0.25 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 0.25 0.25 0.676

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 0.0
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 35.06 -34.67 5.41
LAB*LABa 35.06 -34.85 4.72
LAB*TCHa 25.01 35.18 172.29

relative CIELAB lab*
lab*lab 0.22 -0.494 0.067
lab*tch 0.25 0.5 0.479
lab*nch 0.0 0.5 0.479
relative Natural Colour (NC)
lab*trj 0.22 -0.496 -0.056
lab*tce 0.25 0.5 0.518
lab*nce 0.0 0.5 0.676

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.25 1.0 0.25 1.0
cmyn4* 0.25 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 62.93 -52.64 9.65
LAB*LABa 62.93 -52.28 7.08
LAB*TCHa 62.5 52.77 172.29

relative CIELAB lab*
lab*lab 0.58 -0.744 -0.085
lab*tch 0.625 0.75 0.518
lab*nch 0.0 0.75 0.676
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 0.676

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* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 52.11 -69.86 11.28
LAB*LABa 52.11 -69.71 9.44
LAB*TCHa 50.00 70.36 172.29

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 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.25 1.0 0.25 0.0
cmyn4* 0.25 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 43.59 -32.27 8.34
LAB*LABa 43.59 -32.28 7.08
LAB*TCHa 37.51 52.77 172.29

relative CIELAB lab*
lab*lab 0.33 -0.742 0.101
lab*tch 0.375 0.75 0.479
lab*nch 0.25 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 0.25 0.75 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 1.0 0.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

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

chromaticness c^*

Output: Colorimetric Reflective System MRS18

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

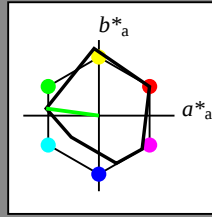
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



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 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 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 (0.0)
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 50.00 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 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 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

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

$n^* = 1.0$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 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*LABa 73.75 -34.85 4.72
LAB*TCHa 75.00 35.18 172.29

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 -0.496 -0.056
lab*tce 0.75 0.5 0.518
lab*nce 0.0 0.5 0.676

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 54.41 -35.05 6.71
LAB*LABa 54.41 -34.86 4.72
LAB*TCHa 50.00 35.19 172.29

relative CIELAB lab*
lab*lab 0.61 -0.494 0.067
lab*tch 0.625 0.25 0.479
lab*nch 0.25 0.25 0.479
relative Natural Colour (NC)
lab*trj 0.61 -0.496 -0.056
lab*tce 0.625 0.25 0.518
lab*nce 0.25 0.25 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.0
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 45.88 -17.46 3.78
LAB*LABa 45.88 -17.42 2.36
LAB*TCHa 37.5 17.59 172.29

relative CIELAB lab*
lab*lab 0.36 -0.247 -0.028
lab*tch 0.375 0.25 0.479
lab*nch 0.25 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 0.25 0.25 0.676

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 0.0
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 35.06 -34.67 5.41
LAB*LABa 35.06 -34.85 4.72
LAB*TCHa 25.01 35.18 172.29

relative CIELAB lab*
lab*lab 0.22 -0.494 0.067
lab*tch 0.25 0.5 0.479
lab*nch 0.0 0.5 0.479
relative Natural Colour (NC)
lab*trj 0.22 -0.496 -0.056
lab*tce 0.25 0.5 0.518
lab*nce 0.0 0.5 0.676

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 54.41 -35.05 6.71
LAB*LABa 54.41 -34.86 4.72
LAB*TCHa 50.00 35.19 172.29

relative CIELAB lab*
lab*lab 0.61 -0.494 0.067
lab*tch 0.625 0.25 0.479
lab*nch 0.25 0.25 0.479
relative Natural Colour (NC)
lab*trj 0.61 -0.496 -0.056
lab*tce 0.625 0.25 0.518
lab*nce 0.25 0.25 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.0
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 45.88 -17.46 3.78
LAB*LABa 45.88 -17.42 2.36
LAB*TCHa 37.5 17.59 172.29

relative CIELAB lab*
lab*lab 0.36 -0.247 -0.028
lab*tch 0.375 0.25 0.479
lab*nch 0.25 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 0.25 0.25 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.25 1.0 0.25 0.0
cmyn4* 0.25 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 43.59 -32.27 8.34
LAB*LABa 43.59 -32.28 7.08
LAB*TCHa 37.51 52.77 172.29

relative CIELAB lab*
lab*lab 0.33 -0.742 0.101
lab*tch 0.375 0.75 0.479
lab*nch 0.25 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 0.25 0.75 0.676

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 1.0 0.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

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

$n^* = 0.00$

%Regularity

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

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

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.5 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*LABa 73.75 -34.85 4.72
LAB*TCHa 75

Input: Colorimetric Reflective System MRS18

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

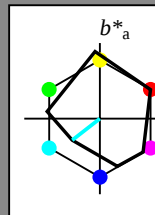
lab^*tch and lab^*nch

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
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 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
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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 3.44
LAB*LABb 76.06 0.0 3.44
LAB*LABc 76.06 0.0 3.44

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)
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 (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 2.14
LAB*LABb 56.71 0.0 2.14
LAB*LABc 56.71 0.0 2.14

relative CIELAB lab*
lab*lab 0.587 -0.196 -0.153
lab*tch 0.625 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.587 -0.176 -0.176
lab*tce 0.625 0.25 0.625
lab*nce 0.0 0.25 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.83
LAB*LABb 37.36 0.0 0.83
LAB*LABc 37.36 0.0 0.83

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)
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 (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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 0.0

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 70.21 -18.77 -11.17
LAB*LABa 70.21 -18.77 -11.17
LAB*LABb 70.21 -18.77 -11.17
LAB*LABc 70.21 -18.77 -11.17

relative CIELAB lab*
lab*lab 0.674 -0.393 -0.306
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.5 0.605
relative Natural Colour (NC)
lab*trj 0.674 -0.353 -0.352
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.5 0.605

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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 50.87 -18.4 -12.48
LAB*LABa 50.87 -18.4 -12.48
LAB*LABb 50.87 -18.4 -12.48
LAB*LABc 50.87 -18.4 -12.48

relative CIELAB lab*
lab*lab 0.512 -0.299 -0.299
lab*tch 0.625 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.512 -0.259 -0.259
lab*tce 0.625 0.25 0.625
lab*nce 0.0 0.25 0.625

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 36.28 -27.3 -20.44
LAB*LABa 36.28 -27.3 -20.44
LAB*LABb 36.28 -27.3 -20.44
LAB*LABc 36.28 -27.3 -20.44

relative CIELAB lab*
lab*lab 0.349 -0.706 -0.706
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.349 -0.706 -0.706
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 (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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 0.0

Output: Colorimetric Reflective System MRS18

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

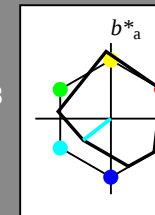
lab^*tch and lab^*nch

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
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 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
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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 3.44
LAB*LABb 76.06 0.0 3.44
LAB*LABc 76.06 0.0 3.44

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)
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 (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 2.14
LAB*LABb 56.71 0.0 2.14
LAB*LABc 56.71 0.0 2.14

relative CIELAB lab*
lab*lab 0.587 -0.196 -0.153
lab*tch 0.625 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.587 -0.176 -0.176
lab*tce 0.625 0.25 0.625
lab*nce 0.0 0.25 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.83
LAB*LABb 37.36 0.0 0.83
LAB*LABc 37.36 0.0 0.83

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)
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 (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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 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 0.00 0.0 0.0
LAB*LABa 0.00 0.0 0.0
LAB*LABb 0.00 0.0 0.0
LAB*LABc 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.00 0.0 0.0
lab*tch 0.00 0.0 0.0
lab*nch 0.00 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.00 0.0 0.0
lab*tce 0.00 0.0 0.0
lab*nce 0.00 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

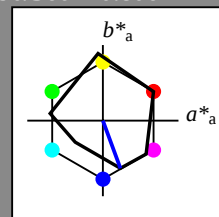
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0
LAB*LABd 95.41 0.0 0.0
LAB*LABe 95.41 0.0 0.0
LAB*LABf 95.41 0.0 0.0
LAB*LABg 95.41 0.0 0.0
LAB*LABh 95.41 0.0 0.0
LAB*LABi 95.41 0.0 0.0
LAB*LABj 95.41 0.0 0.0
LAB*LABk 95.41 0.0 0.0
LAB*LABl 95.41 0.0 0.0
LAB*LABm 95.41 0.0 0.0
LAB*LABn 95.41 0.0 0.0
LAB*LABo 95.41 0.0 0.0
LAB*LABp 95.41 0.0 0.0
LAB*LABq 95.41 0.0 0.0
LAB*LABr 95.41 0.0 0.0
LAB*LABs 95.41 0.0 0.0
LAB*LABt 95.41 0.0 0.0
LAB*LABu 95.41 0.0 0.0
LAB*LABv 95.41 0.0 0.0
LAB*LABw 95.41 0.0 0.0
LAB*LABx 95.41 0.0 0.0
LAB*LABy 95.41 0.0 0.0
LAB*LABz 95.41 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* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*LABa 80.72 5.1 -11.98
LAB*LABb 80.72 5.1 -11.98
LAB*LABc 80.72 5.1 -11.98
LAB*LABd 80.72 5.1 -11.98
LAB*LABe 80.72 5.1 -11.98
LAB*LABf 80.72 5.1 -11.98
LAB*LABg 80.72 5.1 -11.98
LAB*LABh 80.72 5.1 -11.98
LAB*LABi 80.72 5.1 -11.98
LAB*LABj 80.72 5.1 -11.98
LAB*LABk 80.72 5.1 -11.98
LAB*LABl 80.72 5.1 -11.98
LAB*LABm 80.72 5.1 -11.98
LAB*LABn 80.72 5.1 -11.98
LAB*LABo 80.72 5.1 -11.98
LAB*LABp 80.72 5.1 -11.98
LAB*LABq 80.72 5.1 -11.98
LAB*LABr 80.72 5.1 -11.98
LAB*LABs 80.72 5.1 -11.98
LAB*LABt 80.72 5.1 -11.98
LAB*LABu 80.72 5.1 -11.98
LAB*LABv 80.72 5.1 -11.98
LAB*LABw 80.72 5.1 -11.98
LAB*LABx 80.72 5.1 -11.98
LAB*LABy 80.72 5.1 -11.98
LAB*LABz 80.72 5.1 -11.98

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.29 -31.51
LAB*LABa 66.03 11.29 -31.51
LAB*LABb 66.03 11.29 -31.51
LAB*LABc 66.03 11.29 -31.51
LAB*LABd 66.03 11.29 -31.51
LAB*LABe 66.03 11.29 -31.51
LAB*LABf 66.03 11.29 -31.51
LAB*LABg 66.03 11.29 -31.51
LAB*LABh 66.03 11.29 -31.51
LAB*LABi 66.03 11.29 -31.51
LAB*LABj 66.03 11.29 -31.51
LAB*LABk 66.03 11.29 -31.51
LAB*LABl 66.03 11.29 -31.51
LAB*LABm 66.03 11.29 -31.51
LAB*LABn 66.03 11.29 -31.51
LAB*LABo 66.03 11.29 -31.51
LAB*LABp 66.03 11.29 -31.51
LAB*LABq 66.03 11.29 -31.51
LAB*LABr 66.03 11.29 -31.51
LAB*LABs 66.03 11.29 -31.51
LAB*LABt 66.03 11.29 -31.51
LAB*LABu 66.03 11.29 -31.51
LAB*LABv 66.03 11.29 -31.51
LAB*LABw 66.03 11.29 -31.51
LAB*LABx 66.03 11.29 -31.51
LAB*LABy 66.03 11.29 -31.51
LAB*LABz 66.03 11.29 -31.51

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 51.34 17.25 -45.49
LAB*LABa 51.34 17.25 -45.49
LAB*LABb 51.34 17.25 -45.49
LAB*LABc 51.34 17.25 -45.49
LAB*LABd 51.34 17.25 -45.49
LAB*LABe 51.34 17.25 -45.49
LAB*LABf 51.34 17.25 -45.49
LAB*LABg 51.34 17.25 -45.49
LAB*LABh 51.34 17.25 -45.49
LAB*LABi 51.34 17.25 -45.49
LAB*LABj 51.34 17.25 -45.49
LAB*LABk 51.34 17.25 -45.49
LAB*LABl 51.34 17.25 -45.49
LAB*LABm 51.34 17.25 -45.49
LAB*LABn 51.34 17.25 -45.49
LAB*LABo 51.34 17.25 -45.49
LAB*LABp 51.34 17.25 -45.49
LAB*LABq 51.34 17.25 -45.49
LAB*LABr 51.34 17.25 -45.49
LAB*LABs 51.34 17.25 -45.49
LAB*LABt 51.34 17.25 -45.49
LAB*LABu 51.34 17.25 -45.49
LAB*LABv 51.34 17.25 -45.49
LAB*LABw 51.34 17.25 -45.49
LAB*LABx 51.34 17.25 -45.49
LAB*LABy 51.34 17.25 -45.49
LAB*LABz 51.34 17.25 -45.49

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.19 -63.05
LAB*LABa 36.65 23.19 -63.05
LAB*LABb 36.65 23.19 -63.05
LAB*LABc 36.65 23.19 -63.05
LAB*LABd 36.65 23.19 -63.05
LAB*LABe 36.65 23.19 -63.05
LAB*LABf 36.65 23.19 -63.05
LAB*LABg 36.65 23.19 -63.05
LAB*LABh 36.65 23.19 -63.05
LAB*LABi 36.65 23.19 -63.05
LAB*LABj 36.65 23.19 -63.05
LAB*LABk 36.65 23.19 -63.05
LAB*LABl 36.65 23.19 -63.05
LAB*LABm 36.65 23.19 -63.05
LAB*LABn 36.65 23.19 -63.05
LAB*LABo 36.65 23.19 -63.05
LAB*LABp 36.65 23.19 -63.05
LAB*LABq 36.65 23.19 -63.05
LAB*LABr 36.65 23.19 -63.05
LAB*LABs 36.65 23.19 -63.05
LAB*LABt 36.65 23.19 -63.05
LAB*LABu 36.65 23.19 -63.05
LAB*LABv 36.65 23.19 -63.05
LAB*LABw 36.65 23.19 -63.05
LAB*LABx 36.65 23.19 -63.05
LAB*LABy 36.65 23.19 -63.05
LAB*LABz 36.65 23.19 -63.05

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 18.01 0.0 0.0
LAB*LABa 18.01 0.0 0.0
LAB*LABb 18.01 0.0 0.0
LAB*LABc 18.01 0.0 0.0
LAB*LABd 18.01 0.0 0.0
LAB*LABe 18.01 0.0 0.0
LAB*LABf 18.01 0.0 0.0
LAB*LABg 18.01 0.0 0.0
LAB*LABh 18.01 0.0 0.0
LAB*LABi 18.01 0.0 0.0
LAB*LABj 18.01 0.0 0.0
LAB*LABk 18.01 0.0 0.0
LAB*LABl 18.01 0.0 0.0
LAB*LABm 18.01 0.0 0.0
LAB*LABn 18.01 0.0 0.0
LAB*LABo 18.01 0.0 0.0
LAB*LABp 18.01 0.0 0.0
LAB*LABq 18.01 0.0 0.0
LAB*LABr 18.01 0.0 0.0
LAB*LABs 18.01 0.0 0.0
LAB*LABt 18.01 0.0 0.0
LAB*LABu 18.01 0.0 0.0
LAB*LABv 18.01 0.0 0.0
LAB*LABw 18.01 0.0 0.0
LAB*LABx 18.01 0.0 0.0
LAB*LABy 18.01 0.0 0.0
LAB*LABz 18.01 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 9.01 0.0 0.0
LAB*LABa 9.01 0.0 0.0
LAB*LABb 9.01 0.0 0.0
LAB*LABc 9.01 0.0 0.0
LAB*LABd 9.01 0.0 0.0
LAB*LABe 9.01 0.0 0.0
LAB*LABf 9.01 0.0 0.0
LAB*LABg 9.01 0.0 0.0
LAB*LABh 9.01 0.0 0.0
LAB*LABi 9.01 0.0 0.0
LAB*LABj 9.01 0.0 0.0
LAB*LABk 9.01 0.0 0.0
LAB*LABl 9.01 0.0 0.0
LAB*LABm 9.01 0.0 0.0
LAB*LABn 9.01 0.0 0.0
LAB*LABo 9.01 0.0 0.0
LAB*LABp 9.01 0.0 0.0
LAB*LABq 9.01 0.0 0.0
LAB*LABr 9.01 0.0 0.0
LAB*LABs 9.01 0.0 0.0
LAB*LABt 9.01 0.0 0.0
LAB*LABu 9.01 0.0 0.0
LAB*LABv 9.01 0.0 0.0
LAB*LABw 9.01 0.0 0.0
LAB*LABx 9.01 0.0 0.0
LAB*LABy 9.01 0.0 0.0
LAB*LABz 9.01 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 4.51 0.0 0.0
LAB*LABa 4.51 0.0 0.0
LAB*LABb 4.51 0.0 0.0
LAB*LABc 4.51 0.0 0.0
LAB*LABd 4.51 0.0 0.0
LAB*LABe 4.51 0.0 0.0
LAB*LABf 4.51 0.0 0.0
LAB*LABg 4.51 0.0 0.0
LAB*LABh 4.51 0.0 0.0
LAB*LABi 4.51 0.0 0.0
LAB*LABj 4.51 0.0 0.0
LAB*LABk 4.51 0.0 0.0
LAB*LABl 4.51 0.0 0.0
LAB*LABm 4.51 0.0 0.0
LAB*LABn 4.51 0.0 0.0
LAB*LABo 4.51 0.0 0.0
LAB*LABp 4.51 0.0 0.0
LAB*LABq 4.51 0.0 0.0
LAB*LABr 4.51 0.0 0.0
LAB*LABs 4.51 0.0 0.0
LAB*LABt 4.51 0.0 0.0
LAB*LABu 4.51 0.0 0.0
LAB*LABv 4.51 0.0 0.0
LAB*LABw 4.51 0.0 0.0
LAB*LABx 4.51 0.0 0.0
LAB*LABy 4.51 0.0 0.0
LAB*LABz 4.51 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01
LAB*LABa 0.01 0.01
LAB*LABb 0.01 0.01
LAB*LABc 0.01 0.01
LAB*LABd 0.01 0.01
LAB*LABe 0.01 0.01
LAB*LABf 0.01 0.01
LAB*LABg 0.01 0.01
LAB*LABh 0.01 0.01
LAB*LABi 0.01 0.01
LAB*LABj 0.01 0.01
LAB*LABk 0.01 0.01
LAB*LABl 0.01 0.01
LAB*LABm 0.01 0.01
LAB*LABn 0.01 0.01
LAB*LABo 0.01 0.01
LAB*LABp 0.01 0.01
LAB*LABq 0.01 0.01
LAB*LABr 0.01 0.01
LAB*LABs 0.01 0.01
LAB*LABt 0.01 0.01
LAB*LABu 0.01 0.01
LAB*LABv 0.01 0.01
LAB*LABw 0.01 0.01
LAB*LABx 0.01 0.01
LAB*LABy 0.01 0.01
LAB*LABz 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01
LAB*LABa 0.01 0.01
LAB*LABb 0.01 0.01
LAB*LABc 0.01 0.01
LAB*LABd 0.01 0.01
LAB*LABe 0.01 0.01
LAB*LABf 0.01 0.01
LAB*LABg 0.01 0.01
LAB*LABh 0.01 0.01
LAB*LABi 0.01 0.01
LAB*LABj 0.01 0.01
LAB*LABk 0.01 0.01
LAB*LABl 0.01 0.01
LAB*LABm 0.01 0.01
LAB*LABn 0.01 0.01
LAB*LABo 0.01 0.01
LAB*LABp 0.01 0.01
LAB*LABq 0.01 0.01
LAB*LABr 0.01 0.01
LAB*LABs 0.01 0.01
LAB*LABt 0.01 0.01
LAB*LABu 0.01 0.01
LAB*LABv 0.01 0.01
LAB*LABw 0.01 0.01
LAB*LABx 0.01 0.01
LAB*LABy 0.01 0.01
LAB*LABz 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01
LAB*LABa 0.01 0.01
LAB*LABb 0.01 0.01
LAB*LABc 0.01 0.01
LAB*LABd 0.01 0.01
LAB*LABe 0.01 0.01
LAB*LABf 0.01 0.01
LAB*LABg 0.01 0.01
LAB*LABh 0.01 0.01
LAB*LABi 0.01 0.01
LAB*LABj 0.01 0.01
LAB*LABk 0.01 0.01
LAB*LABl 0.01 0.01
LAB*LABm 0.01 0.01
LAB*LABn 0.01 0.01
LAB*LABo 0.01 0.01
LAB*LABp 0.01 0.01
LAB*LABq 0.01 0.01
LAB*LABr 0.01 0.01
LAB*LABs 0.01 0.01
LAB*LABt 0.01 0.01
LAB*LABu 0.01 0.01
LAB*LABv 0.01 0.01
LAB*LABw 0.01 0.01
LAB*LABx 0.01 0.01
LAB*LABy 0.01 0.01
LAB*LABz 0.01 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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

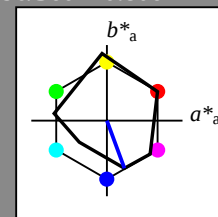
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0
LAB*LABd 95.41 0.0 0.0
LAB*LABe 95.41 0.0 0.0
LAB*LABf 95.41 0.0 0.0
LAB*LABg 95.41 0.0 0.0
LAB*LABh 95.41 0.0 0.0
LAB*LABi 95.41 0.0 0.0
LAB*LABj 95.41 0.0 0.0
LAB*LABk 95.41 0.0 0.0
LAB*LABl 95.41 0.0 0.0
LAB*LABm 95.41 0.0 0.0
LAB*LABn 95.41 0.0 0.0
LAB*LABo 95.41 0.0 0.0
LAB*LABp 95.41 0.0 0.0
LAB*LABq 95.41 0.0 0.0
LAB*LABr 95.41 0.0 0.0
LAB*LABs 95.41 0.0 0.0
LAB*LABt 95.41 0.0 0.0
LAB*LABu 95.41 0.0 0.0
LAB*LABv 95.41 0.0 0.0
LAB*LABw 95.41 0.0 0.0
LAB*LABx 95.41 0.0 0.0
LAB*LABy 95.41 0.0 0.0
LAB*LABz 95.41 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* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*LABa 80.72 5.1 -11.98
LAB*LABb 80.72 5.1 -11.98
LAB*LABc 80.72 5.1 -11.98
LAB*LABd 80.72 5.1 -11.98
LAB*LABe 80.72 5.1 -11.98
LAB*LABf 80.72 5.1 -11.98
LAB*LABg 80.72 5.1 -11.98
LAB*LABh 80.72 5.1 -11.98
LAB*LABi 80.72 5.1 -11.98
LAB*LABj 80.72 5.1 -11.98
LAB*LABk 80.72 5.1 -11.98
LAB*LABl 80.72 5.1 -11.98
LAB*LABm 80.72 5.1 -11.98
LAB*LABn 80.72 5.1 -11.98
LAB*LABo 80.72 5.1 -11.98
LAB*LABp 80.72 5.1 -11.98
LAB*LABq 80.72 5.1 -11.98
LAB*LABr 80.72 5.1 -11.98
LAB*LABs 80.72 5.1 -11.98
LAB*LABt 80.72 5.1 -11.98
LAB*LABu 80.72 5.1 -11.98
LAB*LABv 80.72 5.1 -11.98
LAB*LABw 80.72 5.1 -11.98
LAB*LABx 80.72 5.1 -11.98
LAB*LABy 80.72 5.1 -11.98
LAB*LABz 80.72 5.1 -11.98

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (1.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.29 -31.51
LAB*LABa 66.03 11.29 -31.51
LAB*LABb 66.03 11.29 -31.51
LAB*LABc 66.03 11.29 -31

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

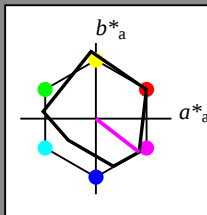
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 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*LABb 75.00 0.01 -

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 (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)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 55.00 0.01 -

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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 35.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.17 28.58 -19.4
LAB*LABa 65.17 28.58 -22.12
LAB*LABb 65.17 28.58 -22.12

relative CIELAB lab*
lab*lab 0.609 0.395 -0.152
lab*tch 0.875 0.25 0.895
lab*nch 0.0 0.25 0.895
relative Natural Colour (NC)
lab*trj 0.805 0.162 -0.189
lab*tce 0.875 0.25 0.862
lab*nce 0.0 0.25 0.844

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 45.83 28.56 -20.71
LAB*LABa 45.83 28.56 -22.12
LAB*LABb 45.83 28.56 -22.12

relative CIELAB lab*
lab*lab 0.359 0.324 -0.38
lab*tch 0.359 0.324 -0.38
lab*nch 0.0 0.324 -0.38
relative Natural Colour (NC)
lab*trj 0.359 0.324 -0.38
lab*tce 0.359 0.324 -0.38
lab*nce 0.0 0.324 -0.38

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 30.72 43.13 -32.79
LAB*LABa 30.72 43.13 -32.79
LAB*LABb 30.72 43.13 -32.79

relative CIELAB lab*
lab*lab 0.164 0.593 -0.458
lab*tch 0.375 0.75 0.895
lab*nch 0.0 0.75 0.895
relative Natural Colour (NC)
lab*trj 0.164 0.486 -0.57
lab*tce 0.375 0.75 0.862
lab*nce 0.0 0.75 0.844

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)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$

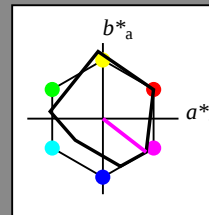
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 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*LABb 75.00 0.01 -

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 (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)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 55.00 0.01 -

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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 35.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.00 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 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TE540-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

BAM-test chart TE54; Colorimetric systems MRS18 & MRS18

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

input: $olv^* setrgbcolor$

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

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 25/360 = 0.069$

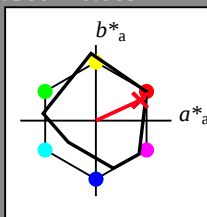
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness t^*



$u^*_{rel} = 91$

relative Inform. Technology (IT)		
olvi3*	1.0	1.0
olvi4*	0.0	0.0
olvi5*	0.0	0.0
olvi6*	0.0	0.0
olvi7*	0.0	0.0
olvi8*	0.0	0.0
olvi9*	0.0	0.0
olvi10*	0.0	0.0
olvi11*	0.0	0.0
olvi12*	0.0	0.0
olvi13*	0.0	0.0
olvi14*	0.0	0.0
olvi15*	0.0	0.0
olvi16*	0.0	0.0
olvi17*	0.0	0.0
olvi18*	0.0	0.0
olvi19*	0.0	0.0
olvi20*	0.0	0.0
olvi21*	0.0	0.0
olvi22*	0.0	0.0
olvi23*	0.0	0.0
olvi24*	0.0	0.0
olvi25*	0.0	0.0
olvi26*	0.0	0.0
olvi27*	0.0	0.0
olvi28*	0.0	0.0
olvi29*	0.0	0.0
olvi30*	0.0	0.0
olvi31*	0.0	0.0
olvi32*	0.0	0.0
olvi33*	0.0	0.0
olvi34*	0.0	0.0
olvi35*	0.0	0.0
olvi36*	0.0	0.0
olvi37*	0.0	0.0
olvi38*	0.0	0.0
olvi39*	0.0	0.0
olvi40*	0.0	0.0
olvi41*	0.0	0.0
olvi42*	0.0	0.0
olvi43*	0.0	0.0
olvi44*	0.0	0.0
olvi45*	0.0	0.0
olvi46*	0.0	0.0
olvi47*	0.0	0.0
olvi48*	0.0	0.0
olvi49*	0.0	0.0
olvi50*	0.0	0.0
olvi51*	0.0	0.0
olvi52*	0.0	0.0
olvi53*	0.0	0.0
olvi54*	0.0	0.0
olvi55*	0.0	0.0
olvi56*	0.0	0.0
olvi57*	0.0	0.0
olvi58*	0.0	0.0
olvi59*	0.0	0.0
olvi60*	0.0	0.0
olvi61*	0.0	0.0
olvi62*	0.0	0.0
olvi63*	0.0	0.0
olvi64*	0.0	0.0
olvi65*	0.0	0.0
olvi66*	0.0	0.0
olvi67*	0.0	0.0
olvi68*	0.0	0.0
olvi69*	0.0	0.0
olvi70*	0.0	0.0
olvi71*	0.0	0.0
olvi72*	0.0	0.0
olvi73*	0.0	0.0
olvi74*	0.0	0.0
olvi75*	0.0	0.0
olvi76*	0.0	0.0
olvi77*	0.0	0.0
olvi78*	0.0	0.0
olvi79*	0.0	0.0
olvi80*	0.0	0.0
olvi81*	0.0	0.0
olvi82*	0.0	0.0
olvi83*	0.0	0.0
olvi84*	0.0	0.0
olvi85*	0.0	0.0
olvi86*	0.0	0.0
olvi87*	0.0	0.0
olvi88*	0.0	0.0
olvi89*	0.0	0.0
olvi90*	0.0	0.0
olvi91*	0.0	0.0
olvi92*	0.0	0.0
olvi93*	0.0	0.0
olvi94*	0.0	0.0
olvi95*	0.0	0.0
olvi96*	0.0	0.0
olvi97*	0.0	0.0
olvi98*	0.0	0.0
olvi99*	0.0	0.0
olvi100*	0.0	0.0

relative Inform. Technology (IT)		
olvi3*	1.0	0.75
olvi4*	0.0	0.25
olvi5*	0.0	0.25
olvi6*	0.0	0.25
olvi7*	0.0	0.25
olvi8*	0.0	0.25
olvi9*	0.0	0.25
olvi10*	0.0	0.25
olvi11*	0.0	0.25
olvi12*	0.0	0.25
olvi13*	0.0	0.25
olvi14*	0.0	0.25
olvi15*	0.0	0.25
olvi16*	0.0	0.25
olvi17*	0.0	0.25
olvi18*	0.0	0.25
olvi19*	0.0	0.25
olvi20*	0.0	0.25
olvi21*	0.0	0.25
olvi22*	0.0	0.25
olvi23*	0.0	0.25
olvi24*	0.0	0.25
olvi25*	0.0	0.25
olvi26*	0.0	0.25
olvi27*	0.0	0.25
olvi28*	0.0	0.25
olvi29*	0.0	0.25
olvi30*	0.0	0.25
olvi31*	0.0	0.25
olvi32*	0.0	0.25
olvi33*	0.0	0.25
olvi34*	0.0	0.25
olvi35*	0.0	0.25
olvi36*	0.0	0.25
olvi37*	0.0	0.25
olvi38*	0.0	0.25
olvi39*	0.0	0.25
olvi40*	0.0	0.25
olvi41*	0.0	0.25
olvi42*	0.0	0.25
olvi43*	0.0	0.25
olvi44*	0.0	0.25
olvi45*	0.0	0.25
olvi46*	0.0	0.25
olvi47*	0.0	0.25
olvi48*	0.0	0.25
olvi49*	0.0	0.25
olvi50*	0.0	0.25
olvi51*	0.0	0.25
olvi52*	0.0	0.25
olvi53*	0.0	0.25
olvi54*	0.0	0.25
olvi55*	0.0	0.25
olvi56*	0.0	0.25
olvi57*	0.0	0.25
olvi58*	0.0	0.25
olvi59*	0.0	0.25
olvi60*	0.0	0.25
olvi61*	0.0	0.25
olvi62*	0.0	0.25
olvi63*	0.0	0.25
olvi64*	0.0	0.25
olvi65*	0.0	0.25
olvi66*	0.0	0.25
olvi67*	0.0	0.25
olvi68*	0.0	0.25
olvi69*	0.0	0.25
olvi70*	0.0	0.25
olvi71*	0.0	0.25
olvi72*	0.0	0.25
olvi73*	0.0	0.25
olvi74*	0.0	0.25
olvi75*	0.0	0.25
olvi76*	0.0	0.25
olvi77*	0.0	0.25
olvi78*	0.0	0.25
olvi79*	0.0	0.25
olvi80*	0.0	0.25
olvi81*	0.0	0.25
olvi82*	0.0	0.25
olvi83*	0.0	0.25
olvi84*	0.0	0.25
olvi85*	0.0	0.25
olvi86*	0.0	0.25
olvi87*	0.0	0.25
olvi88*	0.0	0.25
olvi89*	0.0	0.25
olvi90*	0.0	0.25
olvi91*	0.0	0.25
olvi92*	0.0	0.25
olvi93*	0.0	0.25
olvi94*	0.0	0.25
olvi95*	0.0	0.25
olvi96*	0.0	0.25
olvi97*	0.0	0.25
olvi98*	0.0	0.25
olvi99*	0.0	0.25
olvi100*	0.0	0.25

relative Inform. Technology (IT)		
olvi3*	1.0	0.75
olvi4*	0.0	0.25
olvi5*	0.0	0.25
olvi6*	0.0	0.25
olvi7*	0.0	0.25
olvi8*	0.0	0.25
olvi9*	0.0	0.25
olvi10*	0.0	0.25
olvi11*	0.0	0.25
olvi12*	0.0	0.25
olvi13*	0.0	0.25
olvi14*	0.0	0.25
olvi15*	0.0	0.25
olvi16*	0.0	0.25
olvi17*	0.0	0.25
olvi18*	0.0	0.25
olvi19*	0.0	0.25
olvi20*	0.0	0.25
olvi21*	0.0	0.25
olvi22*	0.0	0.25
olvi23*	0.0	0.25
olvi24*	0.0	0.25
olvi25*	0.0	0.25
olvi26*	0.0	0.25
olvi27*	0.0	0.25
olvi28*	0.0	0.25
olvi29*	0.0	0.25
olvi30*	0.0	0.25
olvi31*	0.0	0.25
olvi32*	0.0	0.25
olvi33*	0.0	0.25
olvi34*	0.0	0.25
olvi35*	0.0	0.25
olvi36*	0.0	0.25
olvi37*	0.0	0.25
olvi38*	0.0	0.25
olvi39*	0.0	0.25
olvi40*	0.0	0.25
olvi41*	0.0	0.25
olvi42*	0.0	0.25
olvi43*	0.0	0.25
olvi44*	0.0	0.25
olvi45*	0.0	0.25
olvi46*	0.0	0.25
olvi47*	0.0	0.25
olvi48*	0.0	0.25
olvi49*	0.0	0.25
olvi50*	0.0	0.25
olvi51*	0.0	0.25
olvi52*	0.0	0.25
olvi53*	0.0	0.25
olvi54*	0.0	0.25
olvi55*	0.0	0.25
olvi56*	0.0	0.25
olvi57*	0.0	0.25
olvi58*	0.0	0.25
olvi59*	0.0	0.25
olvi60*	0.0	0.25
olvi61*	0.0	0.25
olvi62*	0.0	0.25
olvi63*	0.0	0.25
olvi64*	0.0	0.25
olvi65*	0.0	0.25
olvi66*	0.0	0.25
olvi67*	0.0	0.25
olvi68*	0.0	0.25
olvi69*	0.0	0.25
olvi70*	0.0	0.25
olvi71*	0.0	0.25
olvi72*	0.0	0.25
olvi73*	0.0	0.25
olvi74*	0.0	0.25
olvi75*	0.0	0.25
olvi76*	0.0	0.25
olvi77*	0.0	0.25
olvi78*	0.0	0.25
olvi79*	0.0	0.25
olvi80*	0.0	0.25
olvi81*	0.0	0.25
olvi82*	0.0	0.25
olvi83*	0.0	0.25
olvi84*	0.0	0.25
olvi85*	0.0	0.25
olvi86*	0.0	0.25
olvi87*	0.0	0.25
olvi88*	0.0	0.25
olvi89*	0.0	0.25
olvi90*	0.0	0.25
olvi91*	0.0	0.25
olvi92*	0.0	0.25
olvi93*	0.0	0.25
olvi94*	0.0	0.25
olvi95*	0.0	0.25
olvi96*	0.0	0.25
olvi97*	0.0	0.25
olvi98*	0.0	0.25
olvi99*	0.0	0.25
olvi100*	0.0	0.25

relative Inform. Technology (IT)			
olvi3*	0.75	0.5	0.524 (1.0)
cmyn3*	0.25	0.5	0.476 (0.0)
olvi4*	1.0	0.75	0.774 0.75
cmyn4*	0.0	0.25	0.226 0.25
standard and adapted CIELAB			
LAB*LAB	64.26	16.12	10.25
LAB*LABa	64.26	16.5	7.59

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

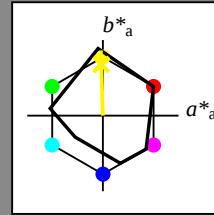
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 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 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)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 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 0.0

relative CIELAB lab*
 lab*lab 0.978 -0.007 0.25
 lab*tch 0.875 0.25 0.255
 lab*nch 0.0 0.25 0.255
 relative Natural Colour (NC)
 lab*trj 0.978 0.0 0.25
 lab*tce 0.875 0.25 0.25
 lab*nce 0.0 0.25 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 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*LABa 56.71 0.0 0.0
 LAB*TCHa 50.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.5 0.5 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)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.83 0.68
 LAB*LABa 37.36 0.0 0.0
 LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
 lab*lab 0.25 0.25 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

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)
 olv3* 1.0 0.988 0.75 (1.0)
 cmyn3* 0.0 0.012 0.25 (0.0)
 olv4* 1.0 0.988 0.75 (1.0)
 cmyn4* 0.0 0.012 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 93.72 -1.64 26.21
 LAB*LABa 93.72 -0.69 21.57
 LAB*TCHa 97.5 21.58 91.86

relative CIELAB lab*
 lab*lab 0.978 -0.007 0.25
 lab*tch 0.875 0.25 0.255
 lab*nch 0.0 0.25 0.255
 relative Natural Colour (NC)
 lab*trj 0.978 0.0 0.25
 lab*tce 0.875 0.25 0.25
 lab*nce 0.0 0.25 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.726 0.25 (1.0)
 cmyn3* 0.25 0.274 0.75 (0.0)
 olv4* 1.0 0.988 0.75 (1.0)
 cmyn4* 0.0 0.012 0.25 (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 0.0

relative CIELAB lab*
 lab*lab 0.957 -0.015 0.5
 lab*tch 0.75 0.5 0.255
 lab*nch 0.0 0.5 0.255
 relative Natural Colour (NC)
 lab*trj 0.957 0.0 0.5
 lab*tce 0.75 0.5 0.25
 lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.713 0.0 (1.0)
 cmyn3* 0.25 0.274 0.75 (0.0)
 olv4* 1.0 0.988 0.75 (1.0)
 cmyn4* 0.0 0.012 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 72.7 -1.92 46.37
 LAB*LABa 72.7 -1.38 43.14
 LAB*TCHa 50.0 43.16 91.84

relative CIELAB lab*
 lab*lab 0.935 -0.023 0.75
 lab*tch 0.625 0.75 0.255
 lab*nch 0.0 0.75 0.255
 relative Natural Colour (NC)
 lab*trj 0.935 0.0 0.75
 lab*tce 0.625 0.75 0.25
 lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.713 0.0 (1.0)
 cmyn3* 0.25 0.274 0.75 (0.0)
 olv4* 1.0 0.988 0.75 (1.0)
 cmyn4* 0.0 0.012 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 72.7 -1.92 46.37
 LAB*LABa 72.7 -1.38 43.14
 LAB*TCHa 50.0 43.16 91.84

relative CIELAB lab*
 lab*lab 0.935 -0.023 0.75
 lab*tch 0.625 0.75 0.255
 lab*nch 0.0 0.75 0.255
 relative Natural Colour (NC)
 lab*trj 0.935 0.0 0.75
 lab*tce 0.625 0.75 0.25
 lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 92/360 = 0.255$

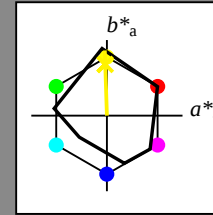
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 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 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)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 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 0.0

relative CIELAB lab*
 lab*lab 0.978 -0.007 0.25
 lab*tch 0.875 0.25 0.255
 lab*nch 0.0 0.25 0.255
 relative Natural Colour (NC)
 lab*trj 0.978 0.0 0.25
 lab*tce 0.875 0.25 0.25
 lab*nce 0.0 0.25 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.738 0.5 (1.0)
 cmyn3* 0.25 0.262 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.012 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 74.38 -1.26 24.91
 LAB*LABa 74.38 -0.68 21.57
 LAB*TCHa 62.5 21.58 91.84

relative CIELAB lab*
 lab*lab 0.957 -0.015 0.5
 lab*tch 0.75 0.5 0.255
 lab*nch 0.0 0.5 0.255
 relative Natural Colour (NC)
 lab*trj 0.957 0.0 0.5
 lab*tce 0.75 0.5 0.25
 lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
 olv3* 0.75 0.738 0.5 (1.0)
 cmyn3* 0.25 0.262 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.012 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 74.38 -1.26 24.91
 LAB*LABa 74.38 -0.68 21.57
 LAB*TCHa 62.5 21.58 91.84

relative CIELAB lab*
 lab*lab 0.957 -0.015 0.5
 lab*tch 0.75 0.5 0.255
 lab*nch 0.0 0.5 0.255
 relative Natural Colour (NC)
 lab*trj 0.957 0.0 0.5
 lab*tce 0.75 0.5 0.25
 lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 88.68 -2.77 86.27
 LAB*LABa 88.68 -2.77 86.27
 LAB*TCHa 50.0 86.32 91.85

relative CIELAB lab*
 lab*lab 0.913 -0.031 0.999
 lab*tch 0.5 1.0 0.255
 lab*nch 0.0 1.0 0.255
 relative Natural Colour (NC)
 lab*trj 0.913 0.0 1.0
 lab*tce 0.5 1.0 0.25
 lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
 olv3* 0.5

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 271/360 = 0.754$

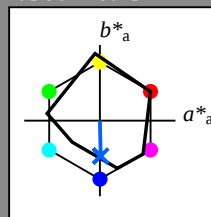
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)		
olvi3*	1.0	1.0
olvi4*	1.0	1.0
olvi5*	1.0	1.0
olvi6*	1.0	1.0
olvi7*	1.0	1.0
olvi8*	1.0	1.0
olvi9*	1.0	1.0
olvi10*	1.0	1.0
olvi11*	1.0	1.0
olvi12*	1.0	1.0
olvi13*	1.0	1.0
olvi14*	1.0	1.0
olvi15*	1.0	1.0
olvi16*	1.0	1.0
olvi17*	1.0	1.0
olvi18*	1.0	1.0
olvi19*	1.0	1.0
olvi20*	1.0	1.0
olvi21*	1.0	1.0
olvi22*	1.0	1.0
olvi23*	1.0	1.0
olvi24*	1.0	1.0
olvi25*	1.0	1.0
olvi26*	1.0	1.0
olvi27*	1.0	1.0
olvi28*	1.0	1.0
olvi29*	1.0	1.0
olvi30*	1.0	1.0
olvi31*	1.0	1.0
olvi32*	1.0	1.0
olvi33*	1.0	1.0
olvi34*	1.0	1.0
olvi35*	1.0	1.0
olvi36*	1.0	1.0
olvi37*	1.0	1.0
olvi38*	1.0	1.0
olvi39*	1.0	1.0
olvi40*	1.0	1.0
olvi41*	1.0	1.0
olvi42*	1.0	1.0
olvi43*	1.0	1.0
olvi44*	1.0	1.0
olvi45*	1.0	1.0
olvi46*	1.0	1.0
olvi47*	1.0	1.0
olvi48*	1.0	1.0
olvi49*	1.0	1.0
olvi50*	1.0	1.0
olvi51*	1.0	1.0
olvi52*	1.0	1.0
olvi53*	1.0	1.0
olvi54*	1.0	1.0
olvi55*	1.0	1.0
olvi56*	1.0	1.0
olvi57*	1.0	1.0
olvi58*	1.0	1.0
olvi59*	1.0	1.0
olvi60*	1.0	1.0
olvi61*	1.0	1.0
olvi62*	1.0	1.0
olvi63*	1.0	1.0
olvi64*	1.0	1.0
olvi65*	1.0	1.0
olvi66*	1.0	1.0
olvi67*	1.0	1.0
olvi68*	1.0	1.0
olvi69*	1.0	1.0
olvi70*	1.0	1.0
olvi71*	1.0	1.0
olvi72*	1.0	1.0
olvi73*	1.0	1.0
olvi74*	1.0	1.0
olvi75*	1.0	1.0
olvi76*	1.0	1.0
olvi77*	1.0	1.0
olvi78*	1.0	1.0
olvi79*	1.0	1.0
olvi80*	1.0	1.0
olvi81*	1.0	1.0
olvi82*	1.0	1.0
olvi83*	1.0	1.0
olvi84*	1.0	1.0
olvi85*	1.0	1.0
olvi86*	1.0	1.0
olvi87*	1.0	1.0
olvi88*	1.0	1.0
olvi89*	1.0	1.0
olvi90*	1.0	1.0
olvi91*	1.0	1.0
olvi92*	1.0	1.0
olvi93*	1.0	1.0
olvi94*	1.0	1.0
olvi95*	1.0	1.0
olvi96*	1.0	1.0
olvi97*	1.0	1.0
olvi98*	1.0	1.0
olvi99*	1.0	1.0
olvi100*	1.0	1.0

relative Inform. Technology (IT)		
olvi3*	0.75	0.842
olvi4*	0.25	0.158
olvi5*	0.25	0.158
olvi6*	0.25	0.158
olvi7*	0.25	0.158
olvi8*	0.25	0.158
olvi9*	0.25	0.158
olvi10*	0.25	0.158
olvi11*	0.25	0.158
olvi12*	0.25	0.158
olvi13*	0.25	0.158
olvi14*	0.25	0.158
olvi15*	0.25	0.158
olvi16*	0.25	0.158
olvi17*	0.25	0.158
olvi18*	0.25	0.158
olvi19*	0.25	0.158
olvi20*	0.25	0.158
olvi21*	0.25	0.158
olvi22*	0.25	0.158
olvi23*	0.25	0.158
olvi24*	0.25	0.158
olvi25*	0.25	0.158
olvi26*	0.25	0.158
olvi27*	0.25	0.158
olvi28*	0.25	0.158
olvi29*	0.25	0.158
olvi30*	0.25	0.158
olvi31*	0.25	0.158
olvi32*	0.25	0.158
olvi33*	0.25	0.158
olvi34*	0.25	0.158
olvi35*	0.25	0.158
olvi36*	0.25	0.158
olvi37*	0.25	0.158
olvi38*	0.25	0.158
olvi39*	0.25	0.158
olvi40*	0.25	0.158
olvi41*	0.25	0.158
olvi42*	0.25	0.158
olvi43*	0.25	0.158
olvi44*	0.25	0.158
olvi45*	0.25	0.158
olvi46*	0.25	0.158
olvi47*	0.25	0.158
olvi48*	0.25	0.158
olvi49*	0.25	0.158
olvi50*	0.25	0.158
olvi51*	0.25	0.158
olvi52*	0.25	0.158
olvi53*	0.25	0.158
olvi54*	0.25	0.158
olvi55*	0.25	0.158
olvi56*	0.25	0.158
olvi57*	0.25	0.158
olvi58*	0.25	0.158
olvi59*	0.25	0.158
olvi60*	0.25	0.158
olvi61*	0.25	0.158
olvi62*	0.25	0.158
olvi63*	0.25	0.158
olvi64*	0.25	0.158
olvi65*	0.25	0.158
olvi66*	0.25	0.158
olvi67*	0.25	0.158
olvi68*	0.25	0.158
olvi69*	0.25	0.158
olvi70*	0.25	0.158
olvi71*	0.25	0.158
olvi72*	0.25	0.158
olvi73*	0.25	0.158
olvi74*	0.25	0.158
olvi75*	0.25	0.158
olvi76*	0.25	0.158
olvi77*	0.25	0.158
olvi78*	0.25	0.158
olvi79*	0.25	0.158
olvi80*	0.25	0.158
olvi81*	0.25	0.158
olvi82*	0.25	0.158
olvi83*	0.25	0.158
olvi84*	0.25	0.158
olvi85*	0.25	0.158
olvi86*	0.25	0.158
olvi87*	0.25	0.158
olvi88*	0.25	0.158
olvi89*	0.25	0.158
olvi90*	0.25	0.158
olvi91*	0.25	0.158
olvi92*	0.25	0.158
olvi93*	0.25	0.158
olvi94*	0.25	0.158
olvi95*	0.25	0.158
olvi96*	0.25	0.158
olvi97*	0.25	0.158
olvi98*	0.25	0.158
olvi99*	0.25	0.158
olvi100*	0.25	0.158

relative Inform. Technology (IT)		
olvi3*	0.75	0.842
olvi4*	0.25	0.158
olvi5*	0.25	0.158
olvi6*	0.25	0.158
olvi7*	0.25	0.158
olvi8*	0.25	0.158
olvi9*	0.25	0.158
olvi10*	0.25	0.158
olvi11*	0.25	0.158
olvi12*	0.25	0.158
olvi13*	0.25	0.158
olvi14*	0.25	0.158
olvi15*	0.25	0.158
olvi16*	0.25	0.158
olvi17*	0.25	0.158
olvi18*	0.25	0.158
olvi19*	0.25	0.158
olvi20*	0.25	0.158
olvi21*	0.25	0.158
olvi22*	0.25	0.158
olvi23*	0.25	0.158
olvi24*	0.25	0.158
olvi25*	0.25	0.158
olvi26*	0.25	0.158
olvi27*	0.25	0.158
olvi28*	0.25	0.158
olvi29*	0.25	0.158
olvi30*	0.25	0.158
olvi31*	0.25	0.158
olvi32*	0.25	0.158
olvi33*	0.25	0.158
olvi34*	0.25	0.158
olvi35*	0.25	0.158
olvi36*	0.25	0.158
olvi37*	0.25	0.158
olvi38*	0.25	0.158
olvi39*	0.25	0.158
olvi40*	0.25	0.158
olvi41*	0.25	0.158
olvi42*	0.25	0.158
olvi43*	0.25	0.158
olvi44*	0.25	0.158
olvi45*	0.25	0.158
olvi46*	0.25	0.158
olvi47*	0.25	0.158
olvi48*	0.25	0.158
olvi49*	0.25	0.158
olvi50*	0.25	0.158
olvi51*	0.25	0.158
olvi52*	0.25	0.158
olvi53*	0.25	0.158
olvi54*	0.25	0.158
olvi55*	0.25	0.158
olvi56*	0.25	0.158
olvi57*	0.25	0.158
olvi58*	0.25	0.158
olvi59*	0.25	0.158
olvi60*	0.25	0.158
olvi61*	0.25	0.158
olvi62*	0.25	0.158
olvi63*	0.25	0.158
olvi64*	0.25	0.158
olvi65*	0.25	0.158
olvi66*	0.25	0.158
olvi67*	0.25	0.158
olvi68*	0.25	0.158
olvi69*	0.25	0.158
olvi70*	0.25	0.158
olvi71*	0.25	0.158
olvi72*	0.25	0.158
olvi73*	0.25	0.158
olvi74*	0.25	0.158
olvi75*	0.25	0.158
olvi76*	0.25	0.158
olvi77*	0.25	0.158
olvi78*	0.25	0.158
olvi79*	0.25	0.158
olvi80*	0.25	0.158
olvi81*	0.25	0.158
olvi82*	0.25	0.158
olvi83*	0.25	0.158
olvi84*	0.25	0.158
olvi85*	0.25	0.158
olvi86*	0.25	0.158
olvi87*	0.25	0.158
olvi88*	0.25	0.158
olvi89*	0.25	0.158
olvi90*	0.25	0.158
olvi91*	0.25	0.158
olvi92*	0.25	0.158
olvi93*	0.25	0.158
olvi94*	0.25	0.158
olvi95*	0.25	0.158
olvi96*	0.25	0.158
olvi97*	0.25	0.158
olvi98*	0.25	0.158
olvi99*	0.25	0.158
olvi100*	0.25	0.158

relative Inform. Technology (IT)		
olvi3*	0.75	0.842
olvi4*	0.25	0.158
olvi5*	0.25	0.158
olvi6*	0.25	0.158
olvi7*	0.25	0.158
olvi8*	0.25	0.158
olvi9*	0.25	0.158
olvi10*	0.25	0.158
olvi11*	0.25	0.158
olvi12*	0.25	0.158
olvi13*	0.25	0.158
olvi14*	0.25	0.158
olvi15*	0.25	0.158
olvi16*	0.25	0.158
olvi17*	0.25	0.158
olvi18*	0.25	0.158
olvi19*	0.25	0.158
olvi20*	0.25	0.158
olvi21*	0.25	0.158
olvi22*	0.25	0.158
olvi23*	0.25	0.158
olvi24*	0.25	0.158
olvi25*	0.25	0.158
olvi26*	0.25	0.158
olvi27*	0.25	0.158
olvi28*	0.25	0.158
olvi29*	0.25	0.158
olvi30*	0.25	0.158
olvi31*	0.25	0.158
olvi32*	0.25	0.158
olvi33*	0.25	0.158
olvi34*	0.25	0.158
olvi35*	0.25	0.158
olvi36*	0.25	0.158
olvi37*	0.25	0.158
olvi38*	0.25	0.158
olvi39*	0.25	0.158
olvi40*	0.25	0.158
olvi41*	0.25	0.158
olvi42*	0.25	0.158
olvi43*	0.25	0.158
olvi44*	0.25	0.158
olvi45*	0.25	0.158
olvi46*	0.25	0.158
olvi47*	0.25	0.158
olvi48*	0.25	0.158
olvi49*	0.25	0.158
olvi50*	0.25	0.158
olvi51*	0.25	0.158
olvi52*	0.25	0.158
olvi53*	0.25	0.158
olvi54*	0.25	0.158
olvi55*	0.25	0.158
olvi56*	0.25	0.158