

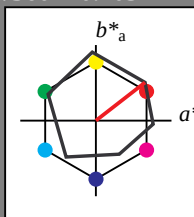
Input: Colorimetric Offset Reflective System ORS18

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

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^* 

% Gamut

 $u^*_{rel} = 94$

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)

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	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
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olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.5	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
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olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.25	0.25	(1.0)
olvi4*	0.0	0.125	0.125	(0.0)
olvi5*	0.0	0.375	0.375	(0.0)
olvi6*	0.0	0.125	0.125	(0.0)
olvi7*	0.0	0.375	0.375	(0.0)
olvi8*	0.0	0.125	0.125	(0.0)
olvi9*	0.0	0.375	0.375	(0.0)
olvi10*	0.0	0.125	0.125	(0.0)
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olvi20*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.0	0.0	(1.0)
olvi4*	0.0			

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 93/360 = 0.258$

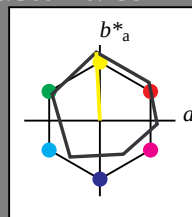
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
RC _{IE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

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

$g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
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LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64
LAB*Lab	94.34	-1.17	22.64

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

les for constant CIE

	BAM-t
	D50: 2

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.42$

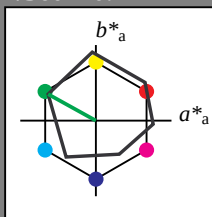
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

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

$g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	95.46	-39.39	4.69
LAB*LAB	95.46	0.0	0.0
LAB*LAB	99.99	0.01	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	84.32	-16.03	12.7
LAB*LAB	84.32	-15.78	8.74
LAB*LAB	87.5	18.05	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	73.18	-31.67	20.7
LAB*LAB	73.18	-31.58	17.49
LAB*LAB	75.0	36.1	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	62.04	-47.31	28.7
LAB*LAB	62.04	-47.37	26.23
LAB*LAB	62.5	54.16	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	50.9	-62.95	36.7
LAB*LAB	50.9	-63.16	34.97
LAB*LAB	50.0	72.21	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	76.12	-0.12	3.4
LAB*LAB	76.12	0.0	0.0
LAB*LAB	75.0	0.01	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	64.98	-15.76	11.41
LAB*LAB	64.98	-15.78	8.75
LAB*LAB	62.5	18.06	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	53.84	-31.41	19.41
LAB*LAB	53.84	-31.58	17.49
LAB*LAB	50.0	36.11	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	50.9	-62.95	36.7
LAB*LAB	50.9	-63.16	34.97
LAB*LAB	50.0	72.21	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	56.78	0.0	2.11
LAB*LAB	56.78	0.0	0.0
LAB*LAB	50.0	0.01	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	45.64	-15.5	10.12
LAB*LAB	45.64	-15.78	8.75
LAB*LAB	42.5	18.06	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	53.84	-31.41	19.41
LAB*LAB	53.84	-31.58	17.49
LAB*LAB	50.0	36.11	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	50.9	-62.95	36.7
LAB*LAB	50.9	-63.16	34.97
LAB*LAB	50.0	72.21	15.103

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	50.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.75	0.5	(1.0)
cmyn3*	0.5	0.25	0.5	(0.0)
olv4*	0.75	1.0	0.75	0.75
cmyn4*	0.25	0.0	0.25	0.25

standard and adapted CIELAB

LAB*LAB	68.41	-20.93	17.6
LAB*LABa	68.41	-20.93	17.6
LAB*TCHa	62.5	27.35	139.94

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 231/360 = 0.641$

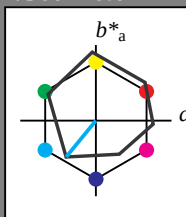
lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

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

$g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.46	-39.34	4.69	
LAB*LAB	95.46	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.12	-0.12	3.4	
LAB*LAB	76.12	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.78	0.13	2.11	
LAB*LAB	56.78	0.0	0.0	
LAB*LAB	55.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.44	-0.36	0.82	
LAB*LAB	37.44	0.0	0.0	
LAB*LAB	35.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.1	0.0	0.46	
LAB*LAB	18.1	0.0	0.0	
LAB*LAB	10.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.46	
LAB*LAB	0.0	0.0	0.0	
LAB*LAB	0.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

QE500-7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)

BAM-test chart QE50; Colorimetric systems ORS18 & ORS15

D50: 2 coordinate data of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.544$

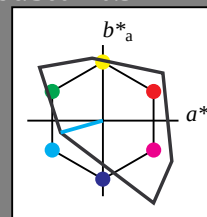
lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 85 58 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.99	-39.34	4.69	
LAB*LAB	56.99	0.0	0.0	
LAB*LAB	55.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.44	-0.36	0.82	
LAB*LAB	37.44	0.0	0.0	
LAB*LAB	35.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.0	0.0	0.46	
LAB*LAB	0.0	0.0	0.0	
LAB*LAB	0.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

lab*ice 0.0 0.0 -
lab*ncE 1.0 0.0 -

$n^* = 1,0$

5 step scales for

10.8 QD610

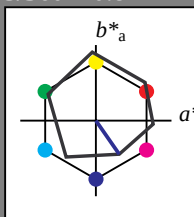
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$ lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
RC _{IE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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 95.46 -0.39 4.69

LAB*LABa 95.46 0.0 0.0

LAB*LABb 99.99 0.01

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 76.12 -0.12 3.4

LAB*LABa 76.12 0.0 0.0

LAB*LABb 75.0 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)

olv3* 0.5 0.5 0.5 (0.0)

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 56.78 0.13 2.11

LAB*LABa 56.78 0.0 0.0

LAB*LABb 50.0 0.01

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 0.0

lab*nch 0.0 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)

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 37.16 0.67 0.82

LAB*LABa 37.16 0.0 0.0

LAB*LABb 25.0 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)

olv3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (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 18.1 0.67 0.46

LAB*LABa 18.1 0.0 0.0

LAB*LABb 0.0 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)

olv3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (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 0.0 0.0 0.0

LAB*LABa 0.0 0.0 0.0

LAB*LABb 0.0 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

QE500-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

BAM-test chart QE50; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 5 step colour scales for 10 hues

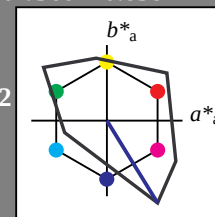
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 302/360 = 0.838$ lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

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 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*LABb 99.99 0.01

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 71.57 0.0 0.0

LAB*LABa 71.57 0.0 0.0

LAB*LABb 75.0 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)

olv3* 0.5 0.5 0.5 (0.0)

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 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*LABb 50.0 0.01

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 0.0

lab*nch 0.0 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)

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 23.87 0.0 0.0

LAB*LABa 23.87 0.0 0.0

LAB*LABb 25.0 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)

olv3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (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 0.0 0.0 0.0

LAB*LABa 0.0 0.0 0.0

LAB*LABb 0.0 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)

olv3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (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 0.0 0.0 0.0

LAB*LABa 0.0 0.0 0.0

LAB*LABb 0.0 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

5 step scales for constant CIELAB hue 302/360 = 0.838 (right)

input: $cmY0^* setcmykcolor$

output: Startup (S) data dependend

chromaticness c^* chromaticness c^* $n^* = 0.25$ blackness n^* $n^* = 0.50$ blackness n^*

0.25

0.50

0.75

1.00

 $n^* = 1.0$ $n^* = 0.25$ blackness n^* $n^* = 0.50$ blackness n^*

0.25

0.50

0.75

1.00

chromaticness c^*

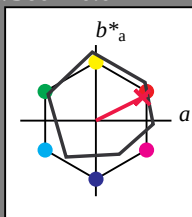
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 26/360 = 0.074$ lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^* 

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.46	-39.49	4.69
LAB*LAB	95.46	0.0	0.0
LAB*LAB	95.46	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*tch	1.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.12	-12.12	3.4
LAB*LAB	76.12	0.0	0.0
LAB*LAB	76.12	0.0	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*tch	0.75	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.78	0.0	2.11
LAB*LAB	56.78	0.0	0.0
LAB*LAB	56.78	0.0	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*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.44	0.0	0.82
LAB*LAB	37.44	0.0	0.0
LAB*LAB	37.44	0.0	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*tch	0.25	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.1	0.0	0.46
LAB*LAB	18.1	0.0	0.0
LAB*LAB	18.1	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.825	(1.0)
cmv3*	0.0	0.25	0.175	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.25	0.175	(0.0)

standard and adapted CIELAB

LAB*LAB	83.73	16.82	12.41
LAB*LAB	83.73	17.06	8.49
LAB*LAB	83.73	19.06	20.46

relative CIELAB lab*

lab*lab	0.848	0.224	0.111
lab*tch	0.875	0.25	0.073
lab*nch	0.0	0.25	0.073

relative Natural Colour (NC)

lab*trj	0.848	0.25	0.0
lab*tch	0.875	0.25	0.0
lab*nch	0.0	0.25	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.575	(1.0)
cmv3*	0.0	0.25	0.125	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.25	0.125	(0.0)

standard and adapted CIELAB

LAB*LAB	64.39	17.1	11.12
LAB*LAB	64.39	17.07	8.5
LAB*LAB	64.39	19.06	21.11

relative CIELAB lab*

lab*lab	0.598	0.224	0.111
lab*tch	0.625	0.25	0.074
lab*nch	0.0	0.25	0.074

relative Natural Colour (NC)

lab*trj	0.598	0.25	0.0
lab*tch	0.625	0.25	0.0
lab*nch	0.0	0.25	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.375	(1.0)
cmv3*	0.0	0.125	0.0625	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.125	0.0625	(0.0)

standard and adapted CIELAB

LAB*LAB	45.05	17.36	9.83
LAB*LAB	45.05	17.07	8.5
LAB*LAB	45.05	19.06	21.11

relative CIELAB lab*

lab*lab	0.348	0.224	0.111
lab*tch	0.375	0.25	0.074
lab*nch	0.0	0.25	0.074

relative Natural Colour (NC)

lab*trj	0.348	0.25	0.0
lab*tch	0.375	0.25	0.0
lab*nch	0.0	0.25	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.125	0.1875	(1.0)
cmv3*	0.0	0.0625	0.03125	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.0625	0.03125	(0.0)

standard and adapted CIELAB

LAB*LAB	25.71	17.07	8.5
LAB*LAB	25.71	17.07	8.5
LAB*LAB	25.71	19.06	21.11

relative CIELAB lab*

lab*lab	0.197	0.224	0.111
lab*tch	0.225	0.25	0.074
lab*nch	0.0	0.25	0.074

relative Natural Colour (NC)

lab*trj	0.197	0.25	0.0
lab*tch	0.225	0.25	0.0
lab*nch	0.0	0.25	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	0.0	0.0	0.0

ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.65	(1.0)
cmv3*	0.0	0.25	0.325	(0.0)
olv4*	1.0	0.5	0.65	(1.0)
cmv4*	0.0	0.25	0.325	(0.0)

standard and adapted CIELAB

LAB*LAB	72.0	34.05	20.12
LAB*LAB	72.0	34.13	16.99
LAB*LAB	72.0	36.12	26.46

relative CIELAB lab*

lab*lab	0.697	0.48	0.223
lab*tch	0.75	0.5	0.074
lab*nch	0.0	0.5	0.074

relative Natural Colour (NC)

lab*trj	0.697	0.5	0.0
lab*tch	0.75	0.5	0.0
lab*nch	0.0	0.5	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.225	(1.0)
cmv3*	0.25	0.75	0.0	(0.0)
olv4*	1.0	0.5	0.65	(1.0)
cmv4*	0.0	0.25	0.325	(0.0)

standard and adapted CIELAB

LAB*LAB	52.67	34.32	18.84
LAB*LAB	52.67	34.13	16.99
LAB*LAB	52.67	36.12	26.46

relative CIELAB lab*

lab*lab	0.542	0.671	0.334
lab*tch	0.625	0.75	0.074
lab*nch	0.0	0.75	0.074

relative Natural Colour (NC)

lab*trj	0.542	0.75	0.0
lab*tch	0.625	0.75	0.0
lab*nch	0.0	0.75	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.25	(1.0)
cmv3*	0.25	1.0	0.0	(0.0)
olv4*	1.0	0.5	0.65	(1.0)
cmv4*	0.0	0.25	0.325	(0.0)

standard and adapted CIELAB

LAB*LAB	40.34	51.55	26.55
LAB*LAB	40.34	51.19	25.49
LAB*LAB	40.34	53.19	26.47

relative CIELAB lab*

lab*lab	0.295	0.671	0.334
lab*tch	0.375	0.75	0.074
lab*nch	0.0	0.75	0.074

relative Natural Colour (NC)

lab*trj	0.295	0.75	0.0
lab*tch	0.375	0.75	0.0
lab*nch	0.0	0.75	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.125	(1.0)
cmv3*	0.125	0.5	0.0	(0.0)
olv4*	1.0	0.25	0.325	(1.0)
cmv4*	0.0	0.125	0.1625	(0.0)

standard and adapted CIELAB

LAB*LAB	33.33	34.32	16.99
LAB*LAB	33.33	34.13	16.99
LAB*LAB	33.33	36.12	26.46

relative CIELAB lab*

lab*lab	0.197	0.447	0.223
lab*tch	0.25	0.5	0.074
lab*nch	0.0	0.5	0.074

relative Natural Colour (NC)

lab*trj	0.197	0.5	0.0
lab*tch	0.25	0.5	0.0
lab*nch	0.0	0.5	0.0

 $n^* = 0.00$ $n^* = 0.25$ $n^* = 0.50$

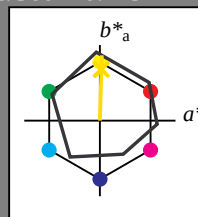
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.245$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

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	95.46	-0.39	4.69
LAB*Lab	95.46	0.0	0.0
LAB*TCRa	99.99	0.01	-

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	76.12	-0.12	3.4
LAB*Lab	76.12	0.0	0.0
LAB*TCRa	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	56.78	0.13	2.11
LAB*Lab	56.78	0.0	0.0
LAB*TCRa	50.00	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	(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	37.14	0.07	0.82
LAB*Lab	37.14	0.0	0.0
LAB*TCRa	25.00	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	18.1	0.07	0.46
LAB*Lab	18.1	0.0	0.0
LAB*TCRa	0.00	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

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	(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	0.0	0.0	0.0
LAB*Lab	0.0	0.0	0.0
LAB*TCRa	0.00	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.05	50.54	82.38	38
YMa	91.0	-4.72	90.58	90.7	93
LMa	50.9	-63.18	34.98	72.22	151
CMa	56.99	-39.34	-48.1	62.16	231
VMa	25.72	30.89	-44.4	54.09	305
MMa	49.99	75.76	-4.64	75.9	356
NMa	18.09	0.0	0.0	0.0	0
WMa	95.46	0.0	0.0	0.0	0
RCIE	41.88	61.66	30.69	68.88	26
JCIE	81.97	2.02	67.79	67.82	88
GCIE	51.62	-41.32	9.74	42.46	167
BCIE	29.2	-5.79	-49.61	49.96	263

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olvi3*	1.0	0.948	0.5	(1.0)
cmyn3*	0.0	0.079	0.5	(0.0)
olvi4*	1.0	0.948	0.5	(1.0)
cmyn4*	0.0	0.079	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	90.97	0.94	47.59
LAB*Lab	90.97	1.28	43.19
LAB*TCRa	75.0	0.43	88.3

relative CIELAB lab*

lab*lab	0.942	0.015	0.5
lab*tch	0.75	0.5	0.245
lab*nch	0.0	0.5	0.245

relative Natural Colour (NC)

lab*trj	0.942	0.0	0.5
lab*tce	0.75	0.5	0.25
lab*nce	0.0	0.5	0.08

relative Inform. Technology (IT)

olvi3*	0.75	0.698	0.25	(1.0)
cmyn3*	0.25	0.302	0.75	(0.0)
olvi4*	1.0	0.948	0.5	(1.0)
cmyn4*	0.0	0.052	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	71.63	1.22	46.3
LAB*Lab	71.63	1.29	43.19
LAB*TCRa	50.0	0.43	88.29

relative CIELAB lab*

lab*lab	0.692	0.015	0.5
lab*tch	0.5	0.5	0.245
lab*nch	0.0	0.5	0.245

relative Natural Colour (NC)

lab*trj	0.692	0.0	0.5
lab*tce	0.5	0.5	0.25
lab*nce	0.0	0.5	0.08

relative Inform. Technology (IT)

olvi3*	0.5	0.448	0.0	(1.0)
cmyn3*	0.5	0.552	1.0	(0.0)
olvi4*	1.0	0.948	0.5	(1.0)
cmyn4*	0.0	0.052	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	52.29	1.49	45.0
LAB*Lab	52.29	1.29	43.18
LAB*TCRa	25.01	0.43	88.29

relative CIELAB lab*

lab*lab	0.442	0.015	0.5
lab*tch	0.25	0.5	0.245
lab*nch	0.0	0.5	0.245

relative Natural Colour (NC)

lab*trj	0.442	0.0	0.5
lab*tce	0.25	0.5	0.25
lab*nce	0.0	0.5	0.08

relative Inform. Technology (IT)

olvi3*	0.25	0.302	0.75	(1.0)
cmyn3*	0.75	0.776	1.0	(0.0)
olvi4*	1.0	0.974	0.5	(1.0)
cmyn4*	0.0	0.026	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	35.19	1.08	22.27
LAB*Lab	35.19	0.65	21.59
LAB*TCRa	12.5	0.43	88.29

relative CIELAB lab*

lab*lab	0.221	0.007	0.25
lab*tch	0.125	0.25	0.245
lab*nch	0.0	0.25	0.245

relative Natural Colour (NC)

lab*trj	0.221	0.0	0.25
lab*tce	0.125	0.25	0.25
lab*nce	0.0	0.25	0.08

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	0.0	0.0	0.0
LAB*Lab	0.0	0.0	0.0
LAB*TCRa	0.00	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

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

 $n^* = 0.00$ $n^* = 0.25$ $n^* = 0.50$ $n^* = 1.0$ chromaticness c^*

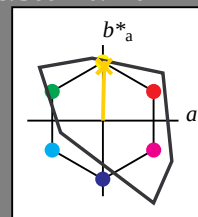
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 89/360 = 0.246$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

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	0.0
LAB*Lab	95.41	0.0	0.0
LAB*TCRa	99.99	0.01	-

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	71.57	0.0	0.0
LAB*Lab	71.57	0.0	0.0
LAB*TCRa	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	56.78	0.13	2.11
LAB*Lab	56.78	0.0	0.0
LAB*TCRa	50.00	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	(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	37.14	0.07	0.82
LAB*Lab	37.14	0.0	0.0
LAB*TCRa	25.00	0.01	-

relative CIELAB lab*

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 167/360 = 0.463$

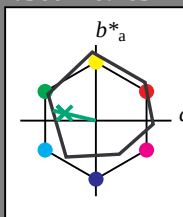
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

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

$g^*_{C,rel} = 60$

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 95.46 -39.34 4.69
LAB*LAB 95.46 0.0 0.0
LAB*LAB 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*nch 0.0 0.0 -

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

standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LAB 76.12 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trj 0.75 0.0 0.0
lab*trj 0.75 0.0 0.0
lab*trj 0.75 0.0 0.0
lab*trj 0.75 0.0 0.0

standard and adapted CIELAB
LAB*LAB 56.78 0.13 2.11
LAB*LAB 56.78 0.0 0.0
LAB*LAB 55.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trj 0.5 0.0 0.0
lab*trj 0.5 0.0 0.0
lab*trj 0.5 0.0 0.0
lab*trj 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0
LAB*LAB 35.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trj 0.25 0.0 0.0
lab*trj 0.25 0.0 0.0
lab*trj 0.25 0.0 0.0
lab*trj 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.815 (1.0)
cmyn3* 0.25 0.0 0.185 (0.0)
olv4* 0.75 1.0 0.815 (1.0)
cmyn4* 0.25 0.0 0.185 (0.0)
standard and adapted CIELAB
LAB*LAB 84.71 -14.24 3.36
LAB*LAB 84.71 0.0 0.0
LAB*LAB 87.5 14.64 166.74

relative CIELAB lab*
lab*lab 0.861 -0.242 0.057
lab*lab 0.875 0.25 0.463
lab*nch 0.0 0.25 0.463
lab*trj 0.861 -0.242 0.057
lab*trj 0.875 0.25 0.463
lab*trj 0.861 -0.242 0.057
lab*trj 0.875 0.25 0.463
lab*trj 0.861 -0.242 0.057

standard and adapted CIELAB
LAB*LAB 65.37 -14.23 6.05
LAB*LAB 65.37 0.0 0.0
LAB*LAB 62.5 14.64 166.73

relative CIELAB lab*
lab*lab 0.611 -0.242 0.057
lab*lab 0.625 0.25 0.463
lab*nch 0.0 0.25 0.463
lab*trj 0.611 -0.242 0.057
lab*trj 0.625 0.25 0.463
lab*trj 0.611 -0.242 0.057
lab*trj 0.625 0.25 0.463
lab*trj 0.611 -0.242 0.057

standard and adapted CIELAB
LAB*LAB 46.03 -13.96 4.76
LAB*LAB 46.03 0.0 0.0
LAB*LAB 43.75 14.64 166.73

relative CIELAB lab*
lab*lab 0.361 -0.242 0.057
lab*lab 0.375 0.25 0.463
lab*nch 0.0 0.25 0.463
lab*trj 0.361 -0.242 0.057
lab*trj 0.375 0.25 0.463
lab*trj 0.361 -0.242 0.057
lab*trj 0.375 0.25 0.463
lab*trj 0.361 -0.242 0.057

standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 0.0 0.0
LAB*LAB 32.5 14.64 166.73

relative CIELAB lab*
lab*lab 0.111 -0.242 0.057
lab*lab 0.125 0.25 0.463
lab*nch 0.0 0.25 0.463
lab*trj 0.111 -0.242 0.057
lab*trj 0.125 0.25 0.463
lab*trj 0.111 -0.242 0.057
lab*trj 0.125 0.25 0.463
lab*trj 0.111 -0.242 0.057

standard and adapted CIELAB
LAB*LAB 26.69 -14.24 3.37
LAB*LAB 26.69 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.653 (1.0)
cmyn3* 0.5 0.0 0.347 (0.0)
olv4* 0.5 1.0 0.653 (1.0)
cmyn4* 0.5 0.0 0.347 (0.0)
standard and adapted CIELAB
LAB*LAB 73.97 -28.49 9.98
LAB*LAB 73.97 0.0 0.0
LAB*LAB 75.0 29.28 166.74

relative CIELAB lab*
lab*lab 0.722 -0.486 0.115
lab*lab 0.75 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.722 -0.486 0.115
lab*trj 0.75 0.5 0.463
lab*trj 0.722 -0.486 0.115
lab*trj 0.75 0.5 0.463
lab*trj 0.722 -0.486 0.115

standard and adapted CIELAB
LAB*LAB 54.63 -28.33 8.7
LAB*LAB 54.63 0.0 0.0
LAB*LAB 50.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.472 -0.486 0.115
lab*lab 0.5 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.472 -0.486 0.115
lab*trj 0.5 0.5 0.463
lab*trj 0.472 -0.486 0.115
lab*trj 0.5 0.5 0.463
lab*trj 0.472 -0.486 0.115

standard and adapted CIELAB
LAB*LAB 43.89 -42.43 11.35
LAB*LAB 43.89 0.0 0.0
LAB*LAB 40.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.333 -0.729 0.172
lab*lab 0.375 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.333 -0.729 0.172
lab*trj 0.375 0.5 0.463
lab*trj 0.333 -0.729 0.172
lab*trj 0.375 0.5 0.463
lab*trj 0.333 -0.729 0.172

standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 0.0 0.0
LAB*LAB 32.5 14.64 166.73

relative CIELAB lab*
lab*lab 0.222 -0.486 0.115
lab*lab 0.25 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.222 -0.486 0.115
lab*trj 0.25 0.5 0.463
lab*trj 0.222 -0.486 0.115
lab*trj 0.25 0.5 0.463
lab*trj 0.222 -0.486 0.115

standard and adapted CIELAB
LAB*LAB 26.69 -14.24 3.37
LAB*LAB 26.69 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.444 (1.0)
cmyn3* 0.25 0.0 0.259 (0.0)
olv4* 0.25 1.0 0.444 (1.0)
cmyn4* 0.25 0.0 0.259 (0.0)
standard and adapted CIELAB
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 0.0 0.0
LAB*LAB 60.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.583 -0.729 0.172
lab*lab 0.625 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.583 -0.729 0.172
lab*trj 0.625 0.5 0.463
lab*trj 0.583 -0.729 0.172
lab*trj 0.625 0.5 0.463
lab*trj 0.583 -0.729 0.172

standard and adapted CIELAB
LAB*LAB 54.63 -28.33 8.7
LAB*LAB 54.63 0.0 0.0
LAB*LAB 50.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.444 -0.972 0.229
lab*lab 0.5 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.444 -0.972 0.229
lab*trj 0.5 0.5 0.463
lab*trj 0.444 -0.972 0.229
lab*trj 0.5 0.5 0.463
lab*trj 0.444 -0.972 0.229

standard and adapted CIELAB
LAB*LAB 43.89 -42.43 11.35
LAB*LAB 43.89 0.0 0.0
LAB*LAB 40.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.333 -0.729 0.172
lab*lab 0.375 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.333 -0.729 0.172
lab*trj 0.375 0.5 0.463
lab*trj 0.333 -0.729 0.172
lab*trj 0.375 0.5 0.463
lab*trj 0.333 -0.729 0.172

standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 0.0 0.0
LAB*LAB 32.5 14.64 166.73

relative CIELAB lab*
lab*lab 0.222 -0.486 0.115
lab*lab 0.25 0.5 0.463
lab*nch 0.0 0.5 0.463
lab*trj 0.222 -0.486 0.115
lab*trj 0.25 0.5 0.463
lab*trj 0.222 -0.486 0.115
lab*trj 0.25 0.5 0.463
lab*trj 0.222 -0.486 0.115

standard and adapted CIELAB
LAB*LAB 26.69 -14.24 3.37
LAB*LAB 26.69 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.259 (1.0)
cmyn3* 0.0 0.0 0.259 (0.0)
olv4* 0.0 1.0 0.259 (1.0)
cmyn4* 0.0 0.0 0.259 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 52.48 -56.79 15.28
LAB*LAB 52.48 0.0 0.0
LAB*LAB 50.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 45.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 42.00 0.0 0.0
LAB*LAB 42.00 0.0 0.0
LAB*LAB 40.0 29.28 166.73

Output: Colorimetric Television Luminous System TLS00

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

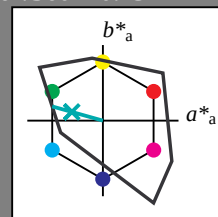
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$

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 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*nch 0.0 0.0 -

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

standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 52.48 -56.79 15.28
LAB*LAB 52.48 0.0 0.0
LAB*LAB 50.0 29.28 166.73

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 45.00 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.0 0.185 (0.0)
olv4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.185 (0.0)
standard and adapted CIELAB
LAB*LAB 89.83 -33.52 9.39
LAB*LAB 89.83 0.0 0.0
LAB*LAB 87.5 17.4 164.36

relative CIELAB lab*
lab*lab 0.941 -0.48 0.135
lab*lab 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
lab*trj 0.941 -0.48 0.135
lab*trj 0.875 0.25 0.457
lab*trj 0.941 -0.48 0.135
lab*trj 0.875 0.25 0.457
lab*trj 0.941 -0.48 0.135

standard and adapted CIELAB
LAB*LAB 68.77 -16.76 4.7
LAB*LAB 68.77 0.0 0.0
LAB*LAB 65.0 17.41 164.35

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 263/360 = 0.731$

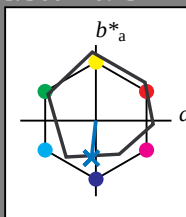
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 94$

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 95.46 -39.49 4.69
LAB*LABa 95.46 0.0 0.0
LAB*LABb 95.46 0.0 0.0
LAB*LABc 95.46 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)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 82.06 -1.56 -7.76
LAB*LABa 82.06 -1.56 -11.57
LAB*LABb 82.06 -1.56 -11.57
LAB*LABc 82.06 -1.56 -11.57
relative CIELAB lab*
lab*lab 0.827 -0.028 -0.247
lab*tch 0.875 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.827 0.0 -0.249
lab*tce 0.875 0.25 0.731
lab*nce 0.0 0.25 0.731

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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*LABb 76.12 0.0 0.0
LAB*LABc 76.12 0.0 0.0
relative CIELAB lab*
lab*lab 0.761 0.0 0.0
lab*tch 0.761 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.761 0.0 0.0
lab*tce 0.761 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 62.72 -1.29 -9.05
LAB*LABa 62.72 -1.29 -11.57
LAB*LABb 62.72 -1.29 -11.57
LAB*LABc 62.72 -1.29 -11.57
relative CIELAB lab*
lab*lab 0.627 -0.028 -0.247
lab*tch 0.627 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.627 0.0 -0.249
lab*tce 0.627 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.78 0.0 2.11
LAB*LABa 56.78 0.0 0.0
LAB*LABb 56.78 0.0 0.0
LAB*LABc 56.78 0.0 0.0
relative CIELAB lab*
lab*lab 0.568 0.0 0.0
lab*tch 0.568 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.568 0.0 0.0
lab*tce 0.568 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.38 -1.02 10.34
LAB*LABa 43.38 -1.02 10.34
LAB*LABb 43.38 -1.02 10.34
LAB*LABc 43.38 -1.02 10.34
relative CIELAB lab*
lab*lab 0.434 -0.028 -0.247
lab*tch 0.434 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.434 0.0 -0.249
lab*tce 0.434 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.67 0.82
LAB*LABa 37.44 -0.67 0.82
LAB*LABb 37.44 -0.67 0.82
LAB*LABc 37.44 -0.67 0.82
relative CIELAB lab*
lab*lab 0.374 -0.028 -0.247
lab*tch 0.374 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.374 0.0 -0.249
lab*tce 0.374 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 29.59 -2.19 12.81
LAB*LABa 29.59 -2.19 12.81
LAB*LABb 29.59 -2.19 12.81
LAB*LABc 29.59 -2.19 12.81
relative CIELAB lab*
lab*lab 0.296 -0.028 -0.247
lab*tch 0.296 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.296 0.0 -0.249
lab*tce 0.296 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LABa 18.1 0.0 0.46
LAB*LABb 18.1 0.0 0.46
LAB*LABc 18.1 0.0 0.46
relative CIELAB lab*
lab*lab 0.181 0.0 0.0
lab*tch 0.181 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.181 0.0 0.0
lab*tce 0.181 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
RC _{IE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

% Regularity

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

$g^*_{C,rel} = 60$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 68.67 -2.73 -20.23
LAB*LABa 68.67 -2.73 -23.15
LAB*LABb 68.67 -2.73 -23.15
LAB*LABc 68.67 -2.73 -23.15
relative CIELAB lab*
lab*lab 0.687 -0.057 -0.496
lab*tch 0.731 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.687 0.0 -0.499
lab*tce 0.731 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 55.27 -3.9 -32.71
LAB*LABa 55.27 -3.9 -34.73
LAB*LABb 55.27 -3.9 -34.73
LAB*LABc 55.27 -3.9 -34.73
relative CIELAB lab*
lab*lab 0.553 -0.086 -0.744
lab*tch 0.625 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.553 0.0 -0.749
lab*tce 0.625 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 49.33 -2.46 -21.53
LAB*LABa 49.33 -2.46 -23.15
LAB*LABb 49.33 -2.46 -23.15
LAB*LABc 49.33 -2.46 -23.15
relative CIELAB lab*
lab*lab 0.493 -0.086 -0.744
lab*tch 0.568 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.493 0.0 -0.749
lab*tce 0.568 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 41.88 -5.06 -45.18
LAB*LABa 41.88 -5.06 -46.3
LAB*LABb 41.88 -5.06 -46.3
LAB*LABc 41.88 -5.06 -46.3
relative CIELAB lab*
lab*lab 0.419 -0.115 -0.992
lab*tch 0.5 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.419 0.0 -0.999
lab*tce 0.5 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 35.54 -3.62 -34.0
LAB*LABa 35.54 -3.62 -34.0
LAB*LABb 35.54 -3.62 -34.0
LAB*LABc 35.54 -3.62 -34.0
relative CIELAB lab*
lab*lab 0.355 -0.086 -0.744
lab*tch 0.434 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.355 0.0 -0.749
lab*tce 0.434 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 30.46 -2.86 -26.87
LAB*LABa 30.46 -2.86 -26.87
LAB*LABb 30.46 -2.86 -26.87
LAB*LABc 30.46 -2.86 -26.87
relative CIELAB lab*
lab*lab 0.305 -0.086 -0.744
lab*tch 0.375 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.305 0.0 -0.749
lab*tce 0.375 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 25.01 -2.03 26.35
LAB*LABa 25.01 -2.03 26.35
LAB*LABb 25.01 -2.03 26.35
LAB*LABc 25.01 -2.03 26.35
relative CIELAB lab*
lab*lab 0.250 -0.028 -0.247
lab*tch 0.319 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.250 0.0 -0.249
lab*tce 0.319 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 20.00 -1.00 0.00
LAB*LABa 20.00 -1.00 0.00
LAB*LABb 20.00 -1.00 0.00
LAB*LABc 20.00 -1.00 0.00
relative CIELAB lab*
lab*lab 0.200 -0.028 -0.247
lab*tch 0.269 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.200 0.0 -0.249
lab*tce 0.269 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 15.00 -0.50 0.00
LAB*LABa 15.00 -0.50 0.00
LAB*LABb 15.00 -0.50 0.00
LAB*LABc 15.00 -0.50 0.00
relative CIELAB lab*
lab*lab 0.150 -0.028 -0.247
lab*tch 0.219 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.150 0.0 -0.249
lab*tce 0.219 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 10.00 -0.25 0.00
LAB*LABa 10.00 -0.25 0.00
LAB*LABb 10.00 -0.25 0.00
LAB*LABc 10.00 -0.25 0.00
relative CIELAB lab*
lab*lab 0.100 -0.028 -0.247
lab*tch 0.169 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.100 0.0 -0.249
lab*tce 0.169 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 5.00 -0.125 0.00
LAB*LABa 5.00 -0.125 0.00
LAB*LABb 5.00 -0.125 0.00
LAB*LABc 5.00 -0.125 0.00
relative CIELAB lab*
lab*lab 0.050 -0.028 -0.247
lab*tch 0.119 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.050 0.0 -0.249
lab*tce 0.119 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 2.50 -0.0625 0.00
LAB*LABa 2.50 -0.0625 0.00
LAB*LABb 2.50 -0.0625 0.00
LAB*LABc 2.50 -0.0625 0.00
relative CIELAB lab*
lab*lab 0.025 -0.028 -0.247
lab*tch 0.089 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.025 0.0 -0.249
lab*tce 0.089 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 1.25 -0.03125 0.00
LAB*LABa 1.25 -0.03125 0.00
LAB*LABb 1.25 -0.03125 0.00
LAB*LABc 1.25 -0.03125 0.00
relative CIELAB lab*
lab*lab 0.0125 -0.028 -0.247
lab*tch 0.044 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.0125 0.0 -0.249
lab*tce 0.044 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 0.625 -0.015625 0.00
LAB*LABa 0.625 -0.015625 0.00
LAB*LABb 0.625 -0.015625 0.00
LAB*LABc 0.625 -0.015625 0.00
relative CIELAB lab*
lab*lab 0.00625 -0.028 -0.247
lab*tch 0.022 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.00625 0.0 -0.249
lab*tce 0.022 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 0.3125 -0.0078125 0.00
LAB*LABa 0.3125 -0.0078125 0.00
LAB*LABb 0.3125 -0.0078125 0.00
LAB*LABc 0.3125 -0.0078125 0.00
relative CIELAB lab*
lab*lab 0.003125 -0.028 -0.247
lab*tch 0.011 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.003125 0.0 -0.249
lab*tce 0.011 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 0.15625 -0.00390625 0.00
LAB*LABa 0.15625 -0.00390625 0.00
LAB*LABb 0.15625 -0.00390625 0.00
LAB*LABc 0.15625 -0.00390625 0.00
relative CIELAB lab*
lab*lab 0.0015625 -0.028 -0.247
lab*tch 0.005 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.0015625 0.0 -0.249
lab*tce 0.005 0.25 0.731
lab*nce 0.0 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.25 0.25 0.25 (0.0)
cmyn4* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 0.078125 -0.001953125 0.00
LAB*LABa 0.078125 -0.001953125 0.00
LAB*LABb 0.078125 -0.001953125 0.00
LAB*LABc 0.078125 -0.001953125 0.00
relative CIELAB lab*
lab*lab 0.00078125 -0.028 -0.247
lab*tch 0.0025 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.00078125 0.0 -0.249
lab*tce 0.0025 0.25 0.731